WATER & WASTEWATER IMPROVEMENTS MONTAUK STATE PARK Salem, Missouri

olsson

Olsson, Inc. Engineering MO State Cert. of Authority #001592
Olsson, Inc. Landscape Architecture MO State Cert. of Authority #2005000285
550 St. Louis St.
Springfield, MO 65806
TEL 417.890.8802
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OWNER:

STATE OF MISSOURI

MICHAEL L. PARSON,

GOVERNOR

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF STATE PARKS

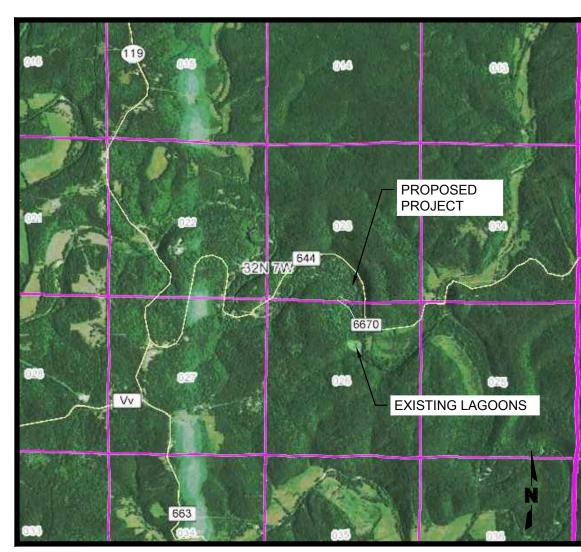
PROJECT

OFFICE OF ADMINISTRATION

MANAGEMENT:

DIVISION OF FACILITIES MANAGEMENT,

DESIGN AND CONSTRUCTION



VICINITY MAP

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DESIGNER:

OLSSON

550 E. St. Louis Street Springfield, MO 65806

PROJECT NUMBER: X230

X230403

SITE NUMBER: ASSET NUMBER:

5307

7815307048



CONSTRUCTION DOCUMENTS

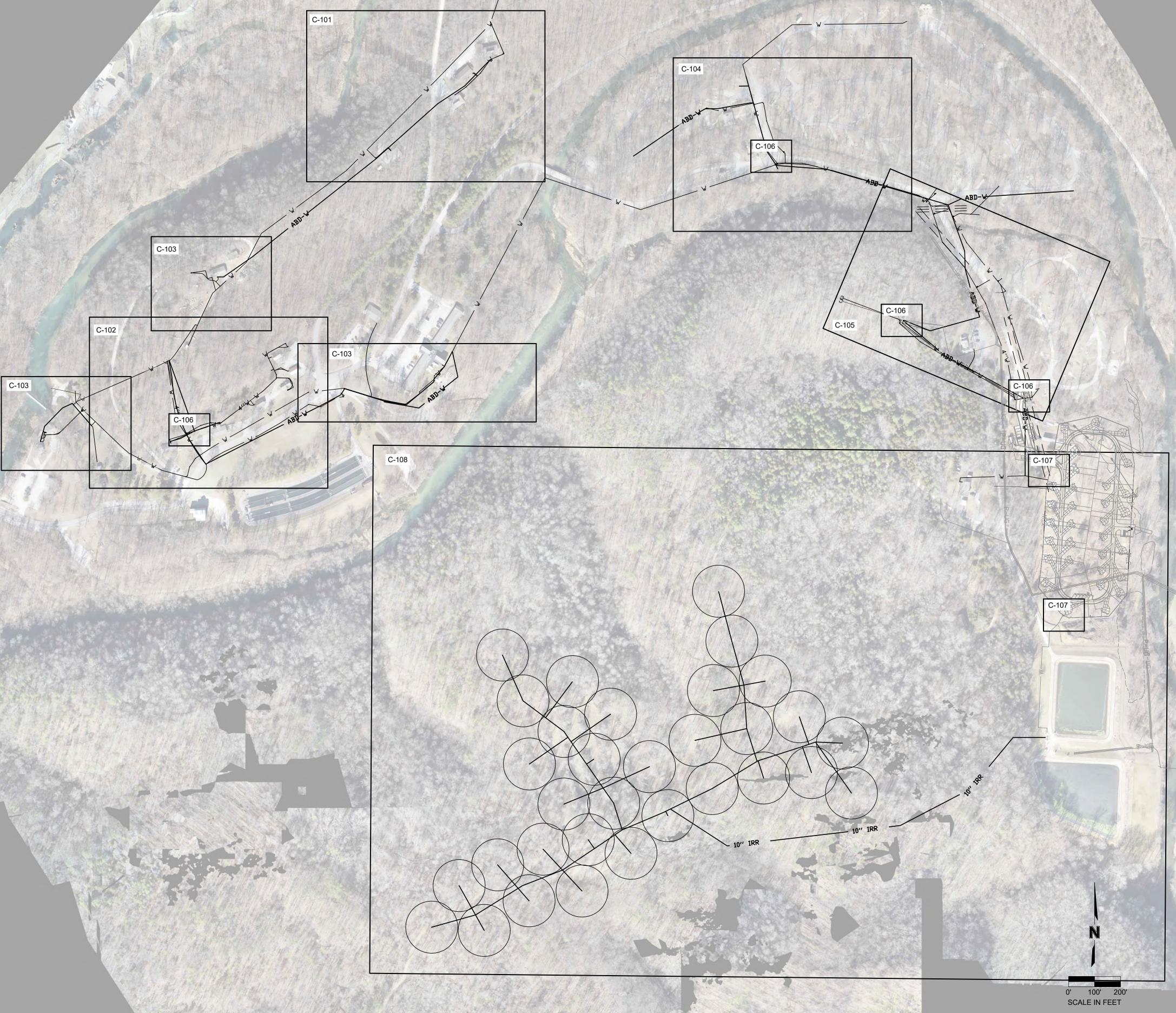
SHEET NUMBER:

05.01.2024

G-001

UNDERGROUND UTILITY NOTE

ANY UNDERGROUND FACILITIES, STRUCTURES, OR UTILITIES THAT HAVE BEEN SHOWN ARE FROM AVAILABLE RECORDS. THEREFORE, THE RELATIONSHIP BETWEEN THE NEW WORK AND THE EXISTING FACILITIES, STRUCTURES, OR UTILITIES MUST BE CONSIDERED APPROXIMATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY ALL THE LOCAL, AND/OR GOVERNING UTILITY COMPANIES PRIOR TO CONSTRUCTION TO DETERMINE THEIR EXACT LOCATIONS AND THE EXISTENCE OF ANY NOT SHOWN. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES AND THE OWNER AS TO THE RELOCATION OR REMOVAL OF ANY UTILITIES SHOWN OR NOT SHOWN.



GENERAL NOTES:

- 1. THE EXISTING UTILITY LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE AND MAY NOT INCLUDE ALL LINES PRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE TO CALL "1-800-DIG-RITE", AND COORDINATE FIELD LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING GRADING ACTIVITIES. !!STOP!! CALL BEFORE YOU DIG!!
- 2. THE CONTRACTOR SHALL NOT CHANGE OR DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE OWNER AND ENGINEER.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL PERMITS AND PAY ALL FEES AS REQUIRED BY THE CONSTRUCTION COVERED IN THESE PLANS.
- 4. ALL WORK AND MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE OWNER OR THE OWNER'S REPRESENTATIVE.
- 5. ANY ESTIMATES OF QUANTITIES ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING ALL QUANTITIES. CONTRACTOR SHALL PROVIDE ALL WORK AND MATERIALS AS SHOWN ON PLANS.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING THE PUBLIC AND CAMPGROUND ROADS IN THE VICINITY OF THE JOB SITE CLEAN AND FREE OF ROCKS, SOIL AND DEBRIS.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RESTORATION OF THE TURF AREAS AN FOR DAMAGED IMPROVEMENTS SUCH AS PAVEMENT AND UTILITIES. DAMAGED IMPROVEMENTS SHALL BE REPAIRED IN CONFORMANCE WITH THE LATEST STATE STANDARDS AND THE STATES SATISFACTION.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING BERMS, SILT FENCES, OR OTHER MEANS TO PREVENT ERODED MATERIALS FROM REACHING THE PUBLIC RIGHT—OF—WAY AND ADJACENT PROPERTIES. IN THE EVENT THE PREVENTION MEASURES ARE NOT EFFECTIVE, THE CONTRACTOR SHALL REMOVE ANY DEBRIS, SILT, OR MUD AND RESTORE THE RIGHT—OF—WAY TO ORIGINAL OR BETTER CONDITION.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL DOWNSTREAM EROSION AND SILTATION DURING ALL PHASES OF CONSTRUCTION. EROSION CONTROL PROCEDURES SHALL BE IN PLACE PRIOR TO BEGINNING GRADING ACTIVITIES.
- 10. ALL EXTERIOR CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4000 PSI AND BE AIR ENTRAINED. FLY ASH IS NOT A SUITABLE REPLACEMENT FOR
- 11. ALL BACK FILL SHALL BE TAMPED. BACK FILL WITHIN THE RIGHT-OF-WAY SHALL BE COMPACTED TO 95% MAX. DENSITY AS PER ASTM-D698 (STANDARD PROCTOR COMPACTION.
- 12. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE PLANS (APPROVED BY THE STATE OF MISSOURI) AND ONE (1) COPY OF THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE SITE AT ALL TIMES.
- 13. ALL REFERENCES CONTAINED WITHIN THESE PLANS ARE HEREBY REFERENCED TO THE OWNER'S ENGINEER, OLSSON, INC.
- 14. KEEP THE ROCK, MUD AND DIRT OFF OF PUBLIC STREETS DURING CONSTRUCTION,
- 15. THE CONTRACTOR IS TO RETAIN FLOATABLE WIND BLOWN MATERIALS ON SITE BY STORING ALL TRASH AND BUILDING MATERIAL WASTE IN ENCLOSURES UNTIL PROPER DISPOSAL AT A OFF—SITE FACILITY. CONTRACTOR TO CHECK ADJACENT AREAS DAILY AND PICK UP CONSTRUCTION WASTE MATERIALS AND DEBRIS THAT HAVE BLOWN OR WASHED OFF-SITE.
- 16. EROSION CONTROL DEVICES SHALL BE MAINTAINED DURING THE WHOLE CONSTRUCTION PERIOD BY THE CONTRACTOR.
- 17. THE CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE ANY EXISTING STREET, CURB AND GUTTER, SIDEWALK AND DRIVEWAYS UNLESS SHOWN TO BE REMOVED.
- 18. ALL DISTURBED AREAS SHALL BE STABILIZED IN ACCORDANCE WITH THE APPROVED SEDIMENT AND EROSION CONTROL PLAN (SECP).
- 19. CONTRACTOR SHALL UTILIZE PRIVATE UTILITY LOCATOR TO LOCATE AND MARK EXISTING UTILITIES WITHIN THE PROJECT AREA. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS AND COORDINATION ASSOCIATED WITH THIS.

UTILITY COMPANIES:

INTERCOUNTY ELECTRIC CO-OP: TELEPHONE: (866) 621-3679

SANITARY SEWER, WATER, AND COMMUNICATIONS: DOUGLAS RUSK

NATURAL RESOURCE MANAGER MISSOURI STATE PARKS MONTAUK STATE PARK OFFICE: (573)-548-2201 FAX: (573)548-2206

BENCHMARKS:

#1. EXISTING SANITARY SEWER MANHOLE $\ddot{R}IM ELEV. = 909.44$

#2. EXISTING SANITARY SEWER MANHOLE RIM ELEV. = 907.40

ABBREVIATION:

100 YEAR WSE = 100 YEAR WATER SURFACE ELEVATION

OWNER/DEVELOPER:

MISSOURI DEPARTMENT OF NATURAL RESOURCES P.O. BOX 176 1101 RIVER SIDE DRIVE JEFFERSON CITY, MISSOURI 65102-0176 TELEPHONE: (573) 5751-3443

PREPARED BY:

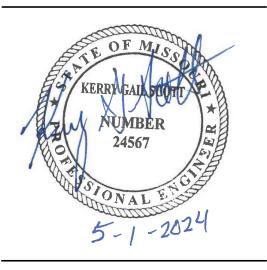
OLSSON, INC. CONTACT: KERRY SCOTT 550 ST. LOUIS STREET SPRINGFIELD, MO 65806 TELEPHONE: (417) 890-1728 FAX: (417) 890-8805

FLOOD MAP

COUNTY OF DENT, MISSOURI COMMUNITY PANEL NUMBER 290118 0175 A EFFECTIVE DATE: JANUARY 5,1984

Г			1	ECEN	ID	
ŀ				<u> EGEN</u>		
		Found Iron Monument			(T)	Telephone Manhole
	•	Set 1/2" Rebar w/Pla	astic Cap			Traffic Signal Pole
	<u> </u>	Benchmark			WM	Water Meter
	AC	Air Conditioner			XWV NASCV	Water Valve
	*	Bollard			⋈scv	9,
	C	Cable Box			W.	Bush
	CV	Cable Vault			ZW.	Coniferous Tree
	E ER	Electric Box Electric Box			(·)	Deciduous Tree
	EM	Electric Meter		ss		Ex. Sanitary Sewer Line
	EV	Electric Vault		SD		Ex. Storm Sewer Line
	-6	Fire Hydrant		—P−UG—		Ex. Underground Electric
	F	Fiber Óptic Box				Ex. Fiber Optic Line
	FO	Fiber Optic Pedestal		—TEL—		Ex. Telephone Line
	GM	Gas Meter				Ex. Water Line
	⊠GV	Gas Valve				Ex. Overhead Power Line
		Grate Inlet		— GAS —		Ex. Gas Line
	GV	Gas Vault		X		Barbed Wire Fence
	\leftarrow	Guy Wire		<u> </u>		Iron Fence
	\Diamond	Light Pole				Wood Fence
	⊕ MLE	Mail Box				Abandoned Water Line
	Y	Parking Meter		— 4''W –		Prop. 4" Water Line
		Power Pole	-	— 3"W –		Prop. 3" Water Line
	尹 ^r	[™] Power Pole w/Light		— 2"W –		Prop. 2" Water Line
	•	Sanitary Cleanout		— 1"W –		Prop. 1" Water Line
	S	Sanitary Manhole		000		5 0 1
	D	Storm Manhole				Ex. Contour
	0	Sign				Prop. Contour
		Telephone Cabinet			_	Top of Pavement
	TP	Telephone Pedestal		900.00	-	Finished Ground
	Т	Telephone Riser	rL=:	900.00		Flow Line

STATE OF MISSOURI MICHAEL L. PARSON, **GOVERNOR**



OFFICE OF ADMINISTRATION **DIVISION OF FACILITIES** MANAGEMENT, **DESIGN AND CONSTRUCTION**

DEPARTMENT OF NATURAL RESOURCES **DEVISION OF STATE PARKS**

WATER & WASTEWATER **IMPROVEMENTS**

MONTAUK STATE PARK 345 COUNTY ROAD 6670

PROJECT # X2304-03 5307 ASSET # 7815307048

SALEM, MO 65560

REVISION:	
DATE:	
REVISION:	
DATE:	
REVISION:	
DATE:	
ISSUE DATE: 05.01.2024	
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CAD DWG FILE:C-100 DRAWN BY: TMH CHECKED BY: KGS DESIGNED BY: KGS

SHEET TITLE:

SITE LAYOUT

SHEET NUMBER:





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ISSUE DATE: 05.01.2024

CAD DWG FILE:C-101
DRAWN BY: TMH
CHECKED BY: KGS
DESIGNED BY: KGS

SHEET TITLE:

WATERLINE PLAN

SHEET NUMBER:

C-10

MAXIMUM JOINT DEFLECTION ON C900 PVC PIPE IS 1 DEGREE OR PER MANUFACTURER'S RECOMMENDATIONS. 2. 2"Ø AND SMALLER PIPE TO BE HDPE DR9 CTS WITH MINIMUM BENDING RADIUS AS PER MANUFACTURER. 3. REPLACE ASPHALT PAVEMENT FOR ROAD CROSSINGS WITH CONCRETE. SEE DETAIL E, SHEET C-501. CONNECT TO EXISTING WATER SERVICE CONNECTION EXISTING CABIN 1"Ø HDPE DR9 CTS WATER SERVICE LINE EXISTING 4" WATERLINE TO REMAIN INSTALL 4"x1" PVC TO HDPE CR9 CTS LOCATE AND PLUG EXISTING TRANSITION FITTING WATERLINE CONNECTIONS 2' -- WELL HOUSE #1 LOCATE EXISTING WATER SERVICE FROM EXISTING WATERLINE LINES IN THIS AREA AND CONNECT LOCATE EXISTING NE/SW WATERLINE. EXISTING CABIN TO NEW 4"Ø PVC C900 WATERLINE INSTALL NEW 4"x4"x4" MJ DI TEE AND USING 4" TAPPING SADDLE WITH NEW OLD WELL HOUSE CONNECT NEW 4"Ø PVC C900 LOCATE EXISTING WATER SERVICE 1"Ø HDPE DR9 CTS PIPE TO CABIN. WATERLINE TO SOUTH LINES IN THIS AREA AND CONNECT TO NEW 4"Ø PVC C900 WATERLINE RECONNECT EXISTING YARD HYDRANT USING 4" TAPPING SADDLE WITH 1" Ø TO NEW 4"Ø PVC WATERLINE HDPE DR9 CTS PIPE TO CABIN. EXISTING 4" WATERLINE TO REMAIN INSTALL 4" 22.5° MJ DI BEND -LOCATE EXISTING WATER SERVICE LINES IN THIS AREA AND CONNECT TO NEW 4"Ø PVC C900 WATERLINE - EXISTING WATER LINE TO BE ABANDONED NEW 1"Ø HDPE USING 4" TAPPING SADDLE WITH 1" DR9 CTS WATER CPLG MIP/CTS PJ AND NEW 1" SERVICE LINE HDPE DR9 CTS PIPE TO CABIN. INSTALL 4" 45° MJ DI BEND > NEW 4"Ø PVC C900 WATERLINE INSTALL NEW 4"Ø 22.5° MJ DI BEND EXISTING CABIN - EXISTING CABIN LOCATE EXISTING WATER SERVICE LINES IN THIS AREA AND CONNECT TO NEW 4"Ø PVC C900 WATERLINE USING 4" TAPPING SADDLE WITH 2" CPLG MIP/CTS PJ AND NEW 2" HDPE DR9 CTS PIPE TO CABIN. INSTALL 2" INSTALL NEW 4" PRV VAULT. 22.5° MJ DI BEND NEW 2" HDPE DR9 CTS SERVICE LINE -SEE SHEET C-502. 4"Ø PVC -TO CABIN INSTALL 4" NEW 22.5° MJ DI BEND -INSTALL NEW 4" 11.25° MJ DI BEND INSTALL 4" TAPPING INSTALL 4"x4"x4" MJ DI SADDLE WITH 2" CPLG MIP/CTS PJ AND NEW 2" HDPE DR9 CTS PIPE EXISTING WATER SERVICE LINE AND VALVE TO BE ABANDONED INSTALL NEW 4" 45° MJ DI BEND 10 SY REMOVE AND REPLACE ASPHALT CONNECT TO EXISTING WATER SERVICE FROM CABIN EXISTING WATER SERVICE LINE TO BE ABANDONED RECONNECT EXISTING YARD 935
HYDRANT USING TAPPING
SADDLE TO MATCH LINE SIZE INSTALL 2"Ø _ HDPE DR9 CTS DEFLECT PIPE AS REQUIRED.
MAX JOINT DEFLECTION 1° EXISTING YARD HYDRANT EXISTING CABIN INSTALL 4" 22.5° MJ DI BEND 10 SY REMOVE AND REPLACE ASPHALT PAVEMENT INSTALL 4" 22.5° MJ DI BEND INSTALL 4" 45° MJ DI BEND AND 4"x3" MJ DI REDUCER. CONNECT EXISTING 3" WATERLINE TO EXISTING 3" WATERLINE (W). TO BE ABANDONED INSTALL 4" 45° MJ DI BEND ABANDON 3" WATERLINE (É) EXISTING 3" GATE VALVE **EXISTING 3" WATERLINE** TO BE ABANDONED

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR



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OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION

DEPARTMENT OF NATURAL RESOURCES DIVISION OF STATE PARKS

WATER & WASTEWATER IMPROVEMENTS

MONTAUK STATE PARK 345 COUNTY ROAD 6670 SALEM, MO 65560

PROJECT # X2304-03 SITE # 5307 ASSET # 7815307048

REVISION:
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REVISION:
DATE:

ISSUE DATE: 05.01.2024

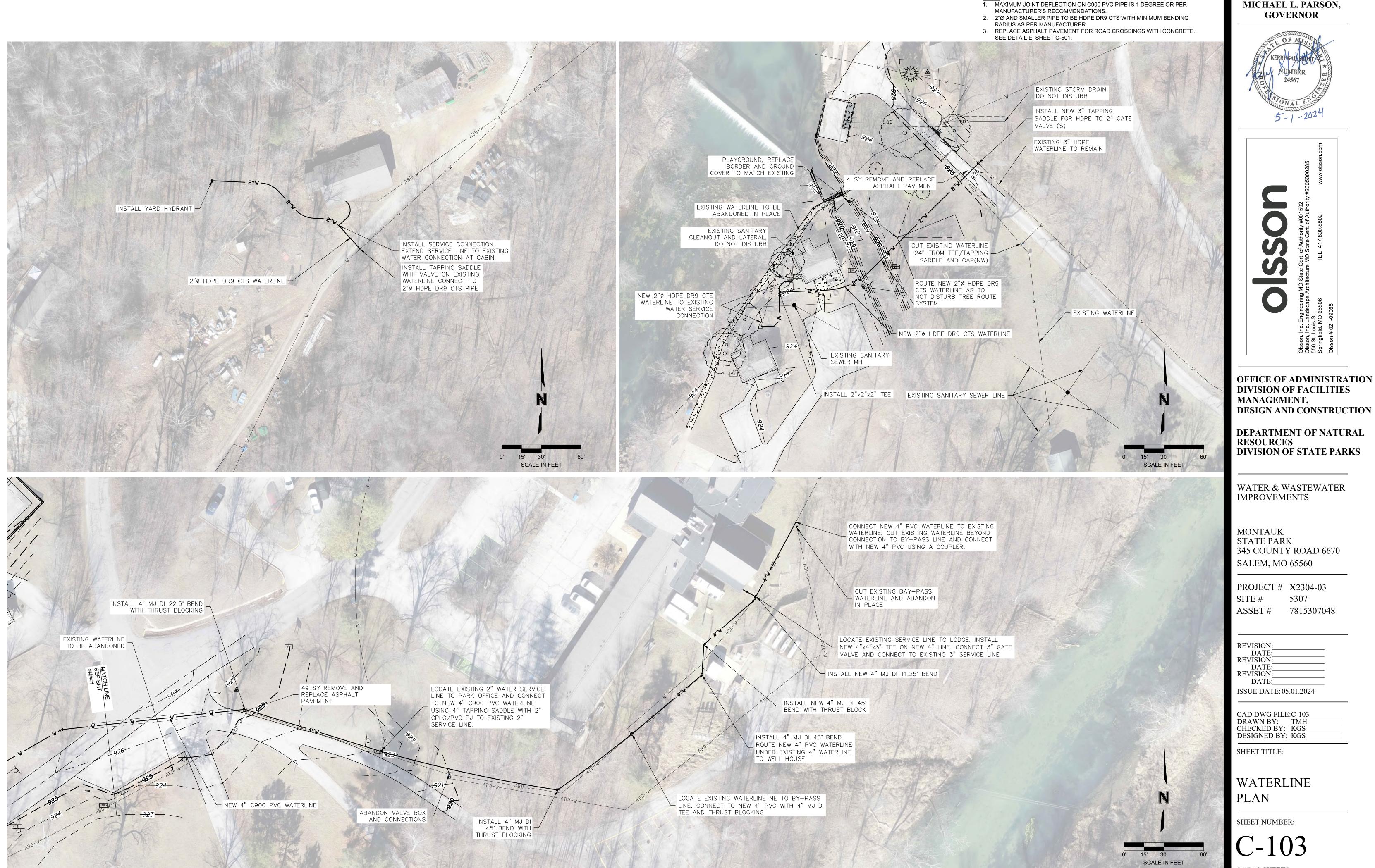
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DRAWN BY: TMH
CHECKED BY: KGS
DESIGNED BY: KGS

SHEET TITLE:

WATERLINE PLAN

SHEET NUMBER:

|C-102|

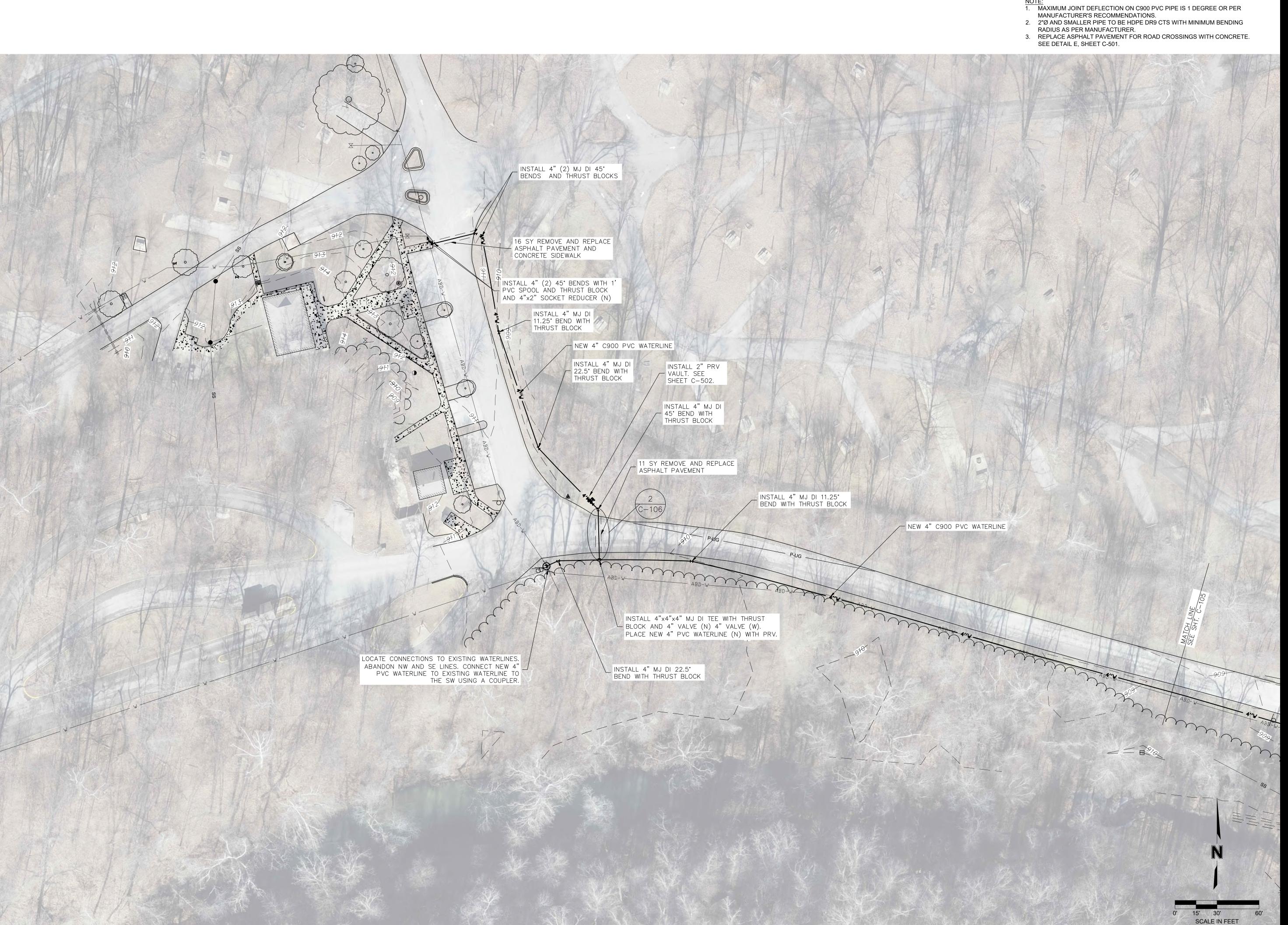


STATE OF MISSOURI MICHAEL L. PARSON,

DESIGN AND CONSTRUCTION

DIVISION OF STATE PARKS

5 OF 13 SHEETS





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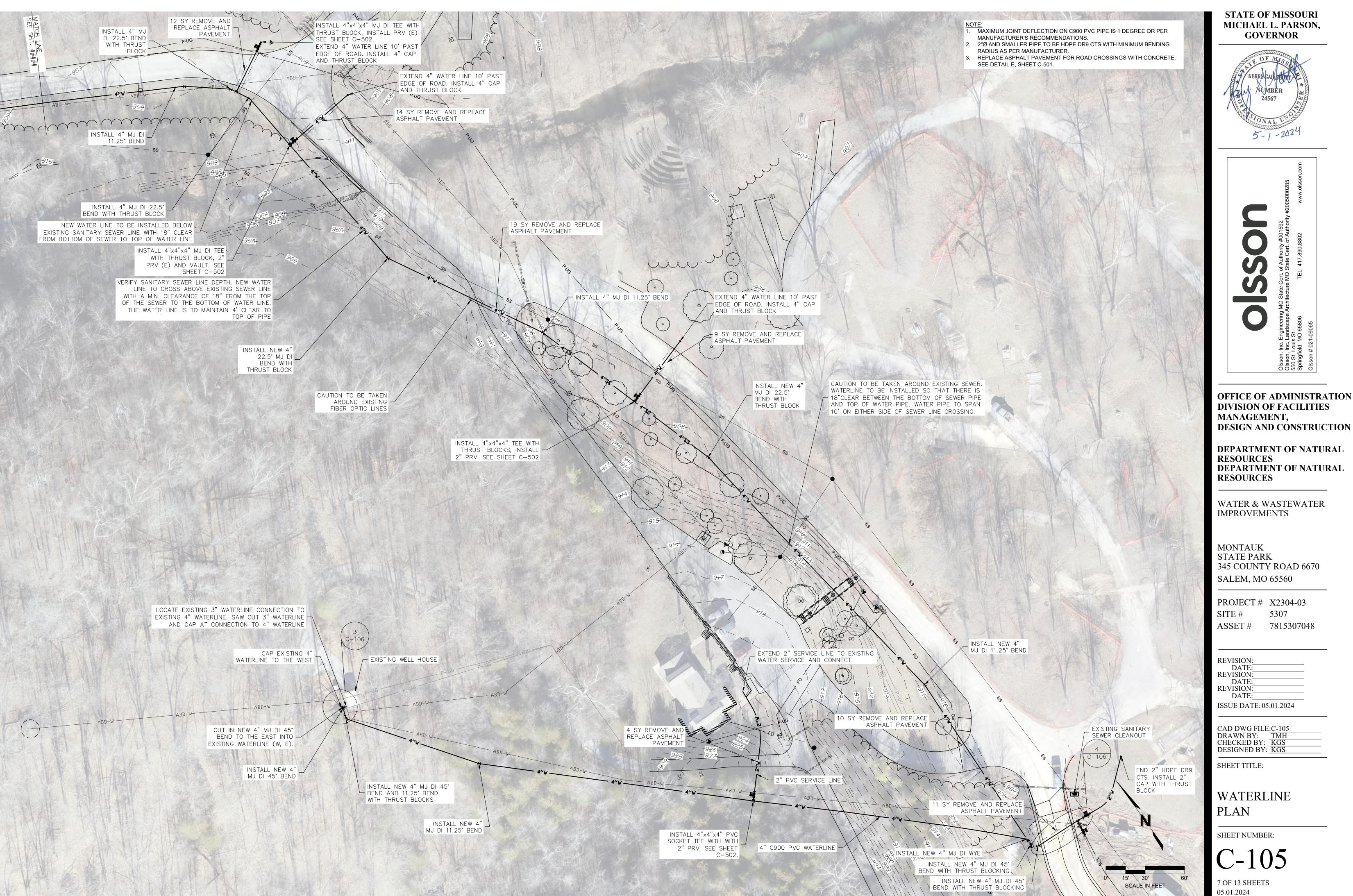
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WATERLINE PLAN

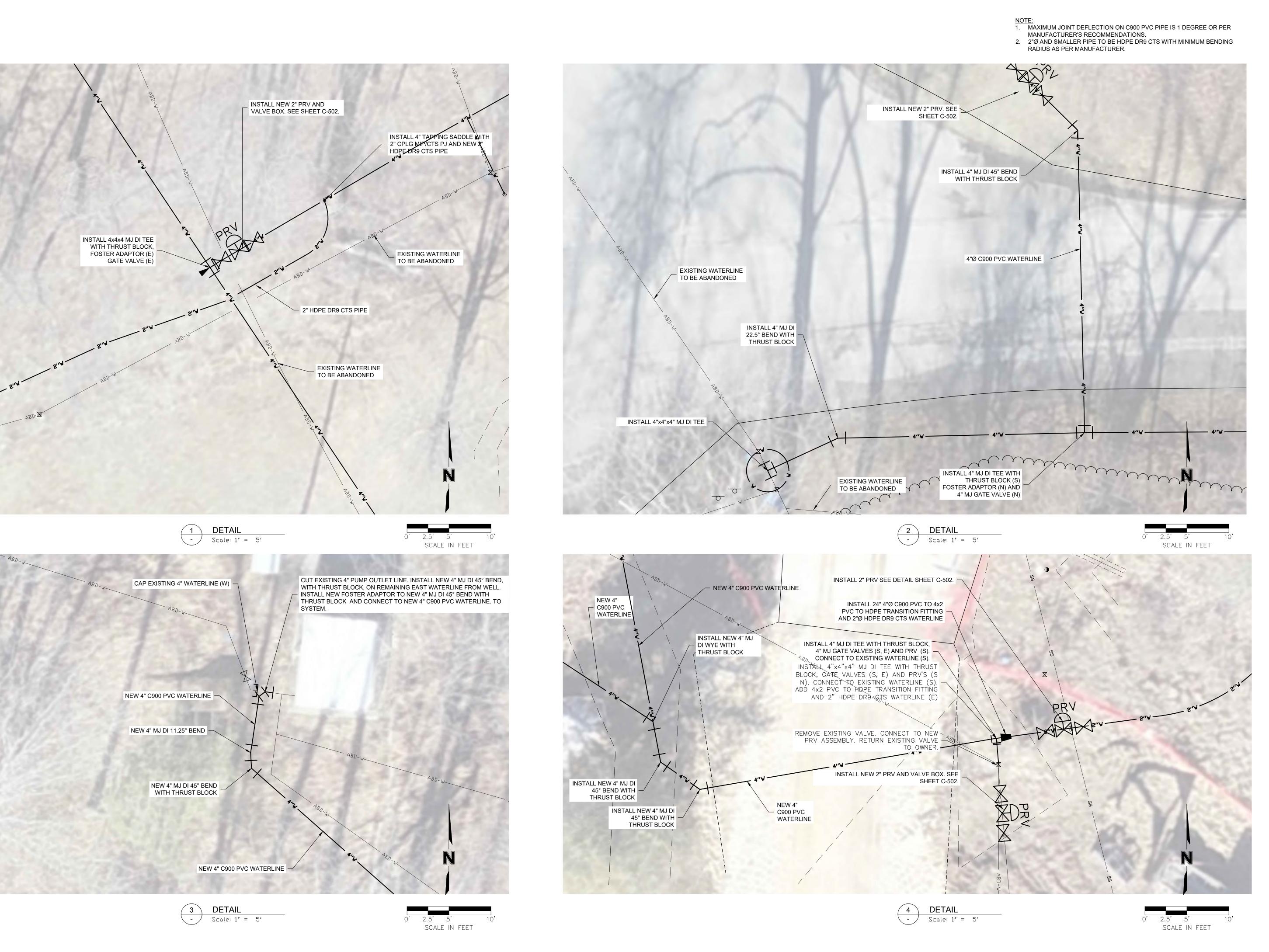
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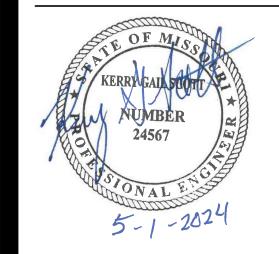
C-10



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CAD DWG FILE:C-106
DRAWN BY: TMH
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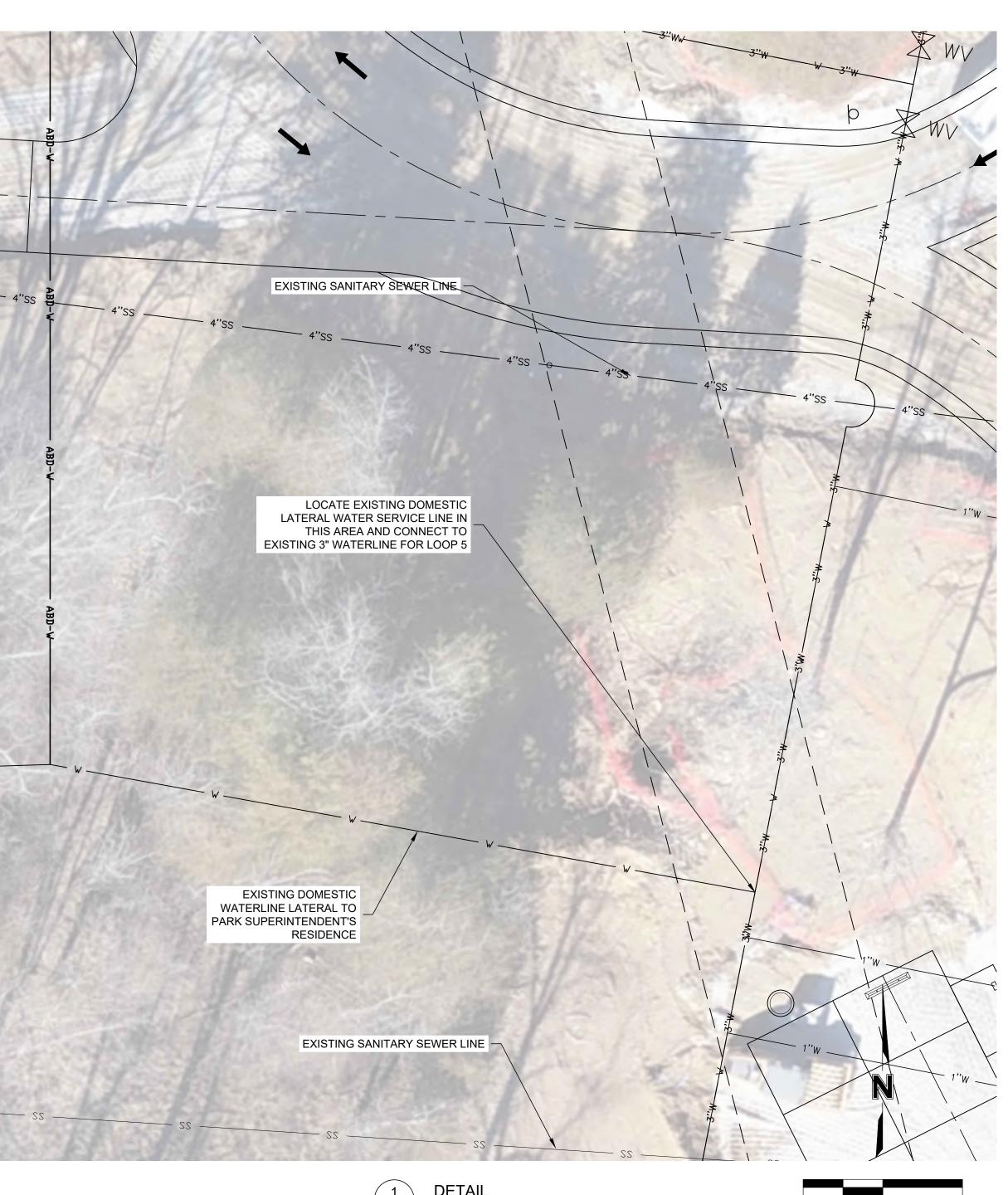
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SHEET TITLE:

WATERLINE PLAN

SHEET NUMBER:

C-106







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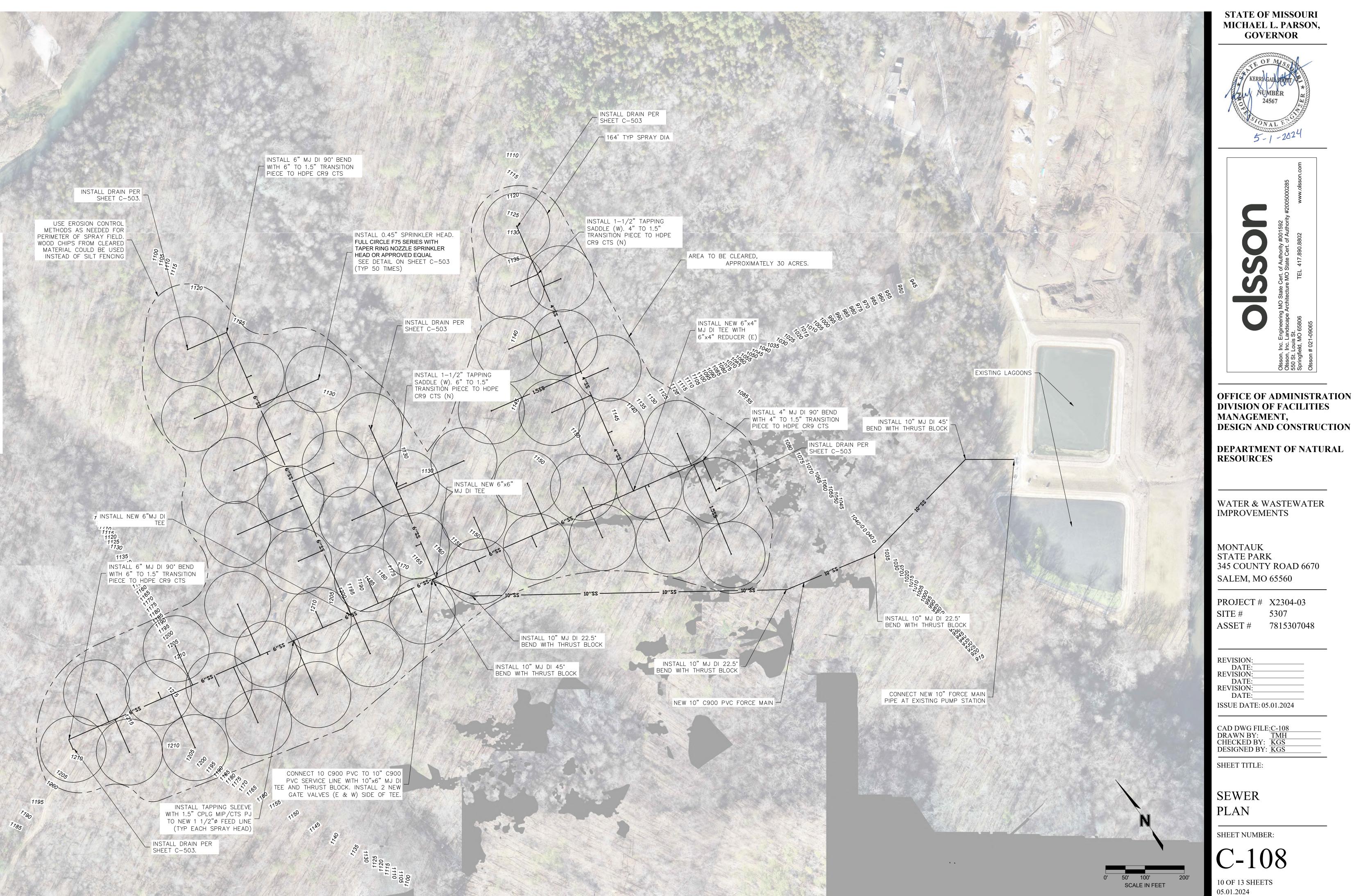
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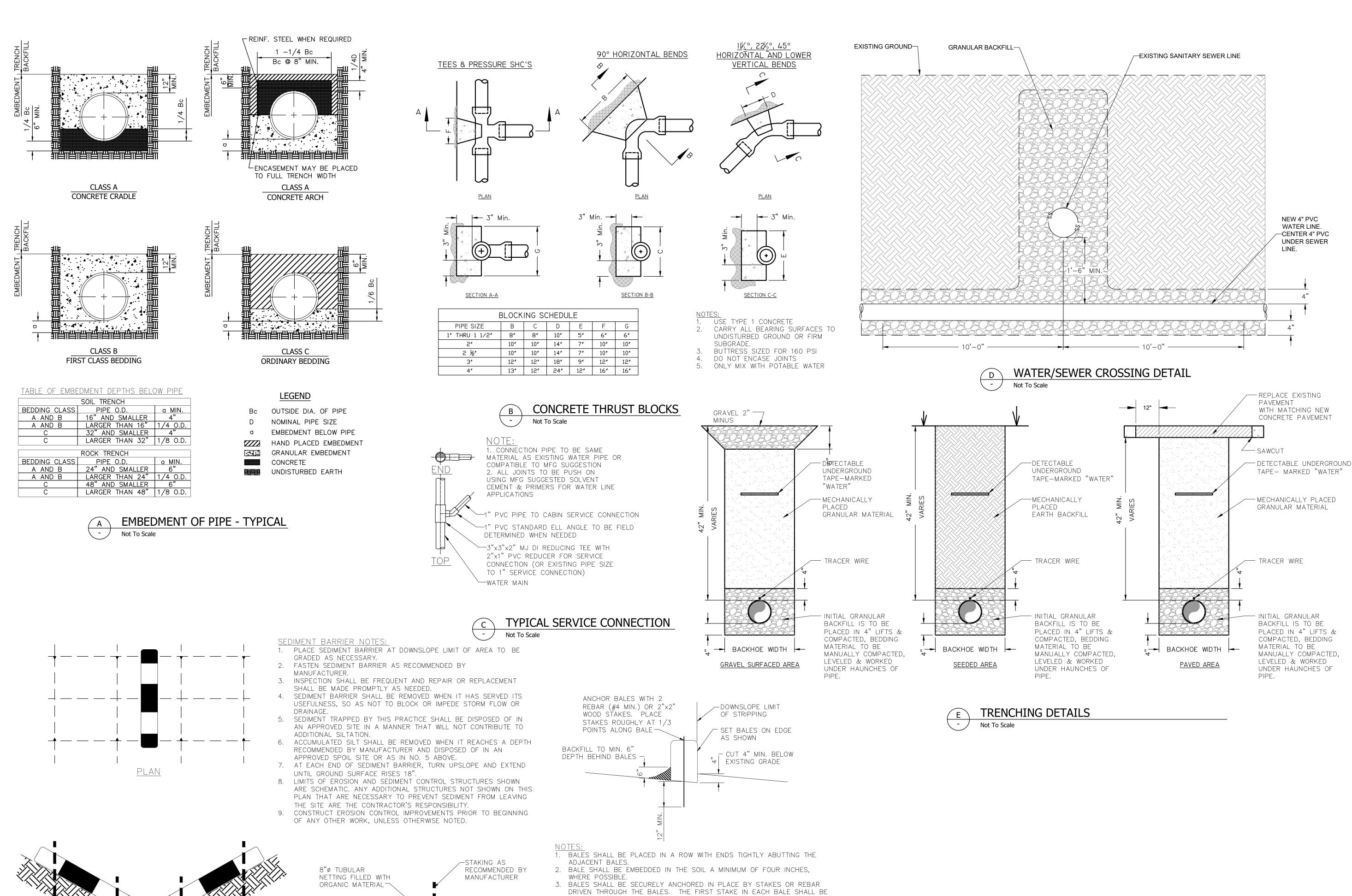
WATERLINE PLAN

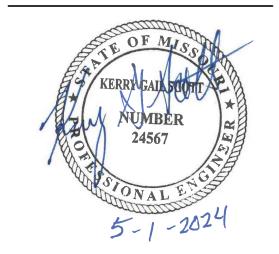
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C-107









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CAD DWG FILE:C-501
DRAWN BY: TMH
CHECKED BY: KGS
DESIGNED BY: KGS

SHEET TITLE:

WATERLINE DETAILS

SHEET NUMBER:

C-501

11 OF 13 SHEETS 05.01.2024



NOTE: UTILIZE FILTREXX

SILT SOXX OR APPROVED

EQUAL PRODUCT

FOLLOWING RAINFALL.

SURFACE RISES 18".

ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALES TOGETHER.

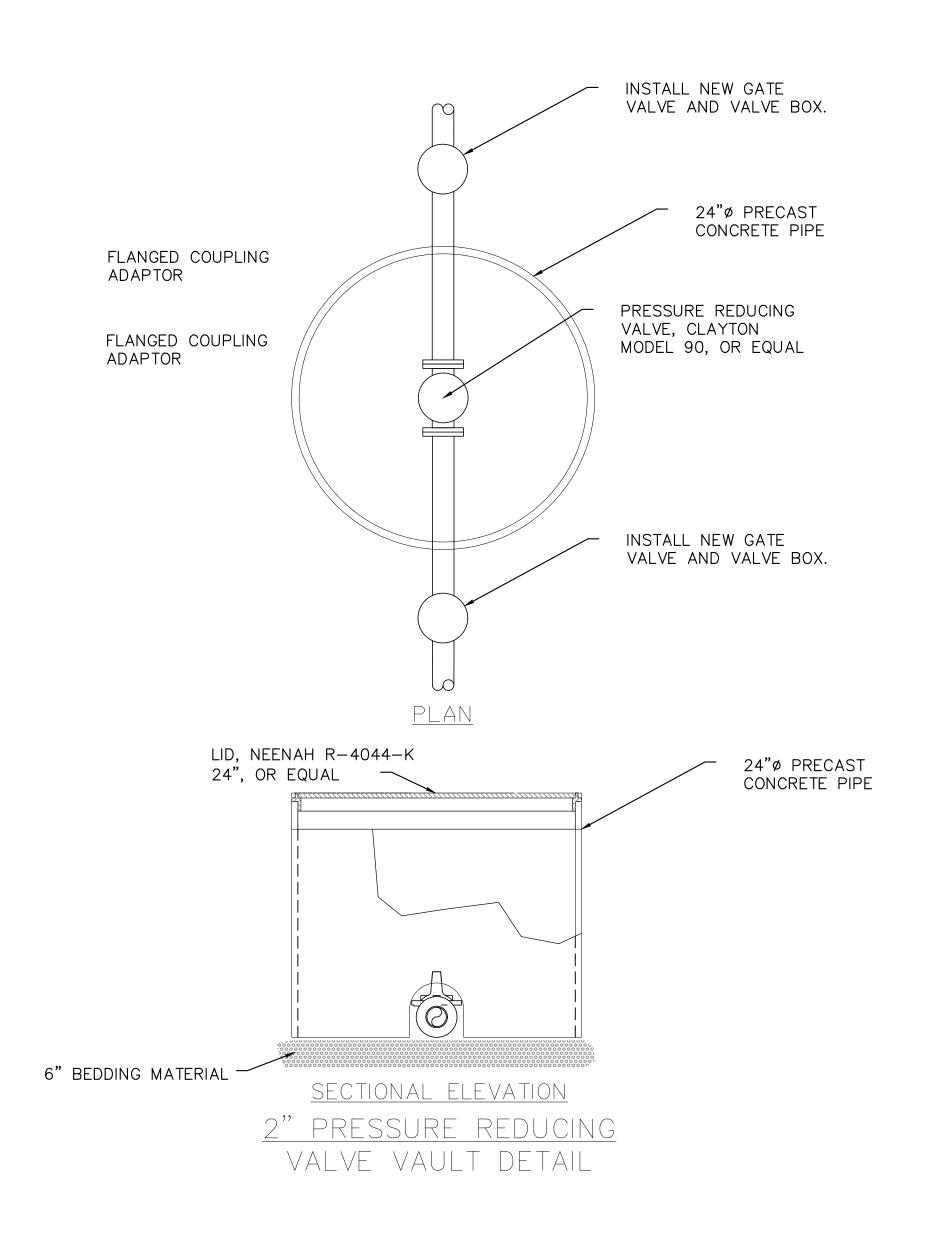
4. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED BY CONTRACTOR. INSPECT WITHIN 72 HOURS

5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS

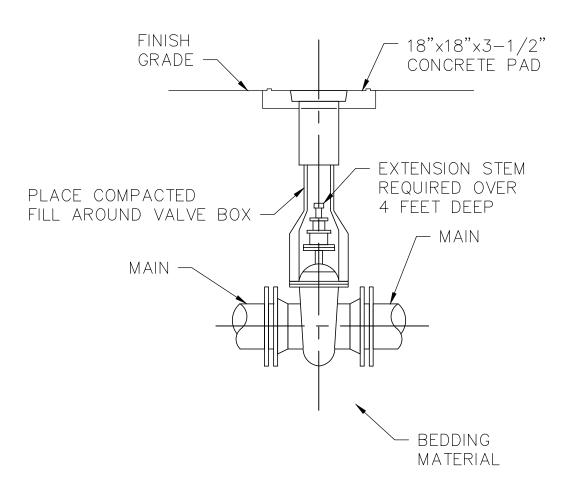
6. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6

7. AT EACH END OF DIKE, TURN DIKE UPSLOPE AND EXTEND UNTIL GROUND

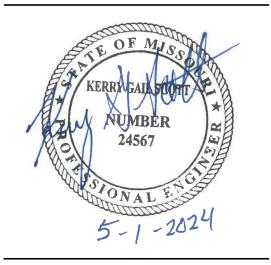
SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.



SLIDE TYPE VALVE BOX WITH LID, CLOW F2452, OR EQUAL



<u>sectional elevation</u> 2" PRESSURE REDUCING VALVE VAULT DETAIL



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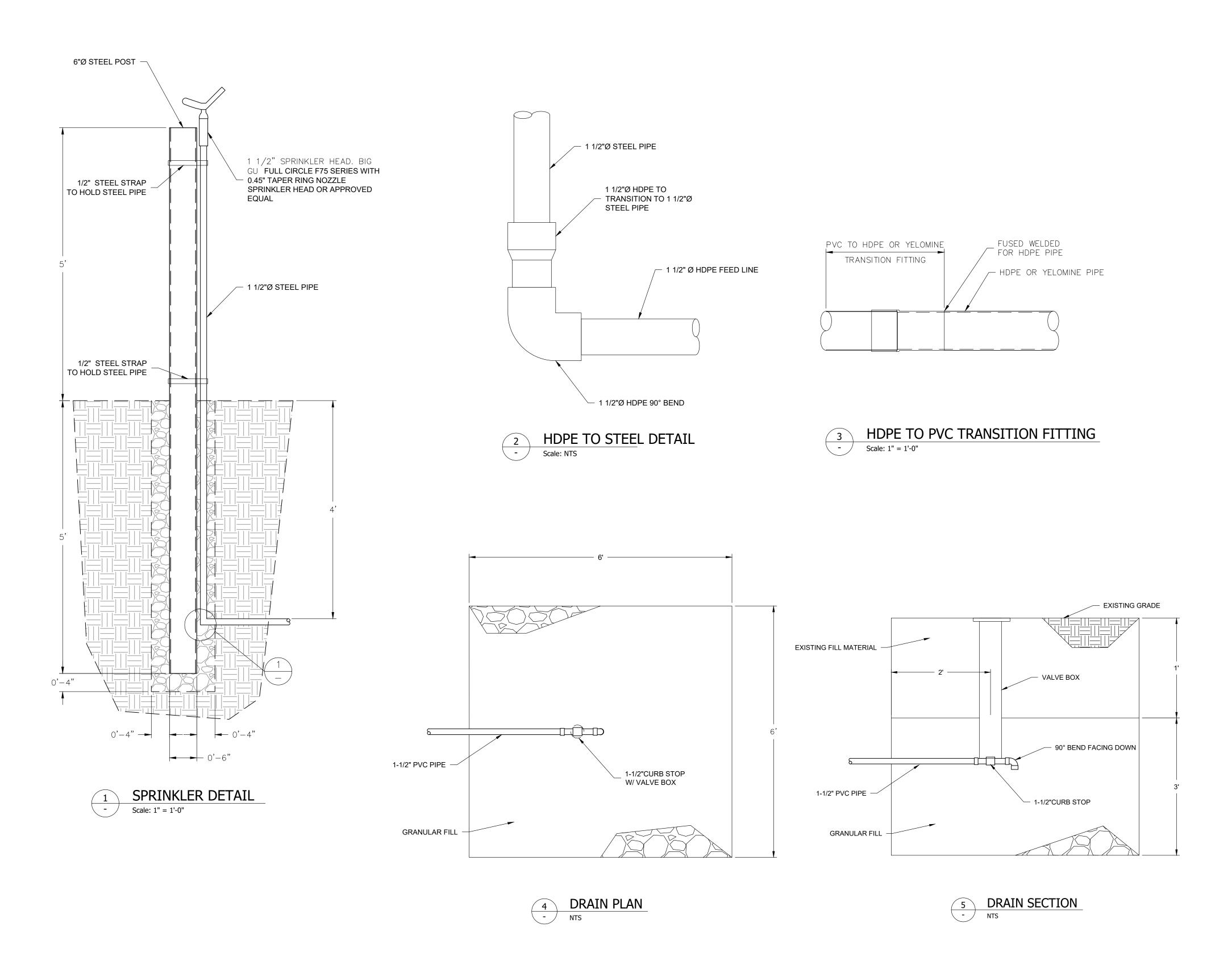
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DRAWN BY: TMH
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DESIGNED BY: KGS

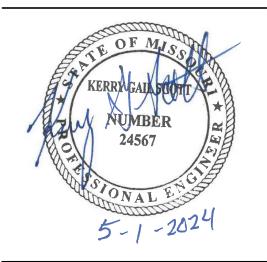
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WATERLINE DETAILS

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C-502





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CAD DWG FILE:C-503
DRAWN BY: TMH
CHECKED BY: KGS
DESIGNED BY: KGS

SHEET TITLE:

SEWER LINE DETAILS

SHEET NUMBER:

C-503