REPLACE 22 ELECTRIC SITES WITH 22 PREMIUM SITES TABLE ROCK STATE PARK, CAMPGROUND #2 BRANSON, MISSOURI

STATE OF MISSOURI **OWNERS**: MICHAEL L. PARSON, GOVERNOR MISSOURI DEPARTMENT OF NATURAL RESOURCES MISSOURI STATE PARKS PROJECT OFFICE OF ADMINISTRATION **DIVISION OF FACILITIES MANAGEMENT,** MANAGEMENT: **DESIGN AND CONSTRUCTION**

X2216-01 PROJECT #:

SITE #:

5603

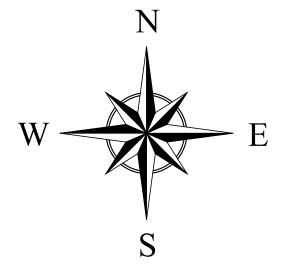
ASSET #:

7815603018

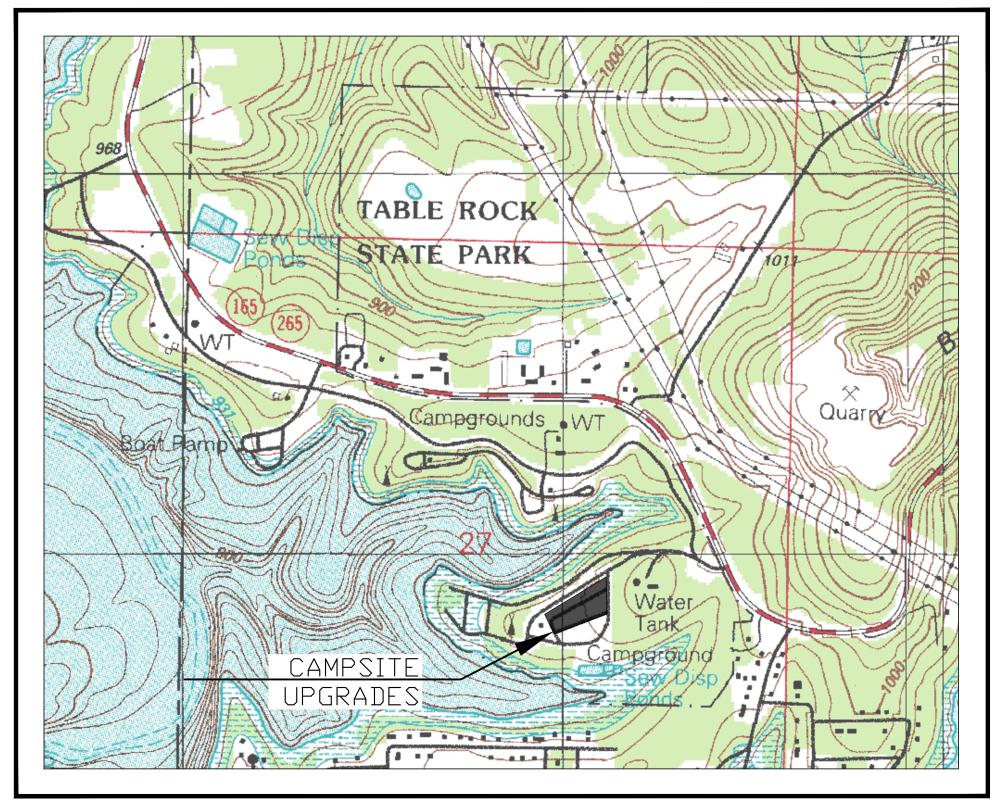
LEGEND

	—		
0	IRON PIN SET (TYPICAL) GREAT RIVER 2001011476	₩ X	WATER VALVE
•	IRON PIN FOUND, AS NOTED	Ķ	FIRE HYDRANT
×	CUT CROSS	WH	WATER HYDRANT
~ •	RIGHT OF WAY MARKER	SP O	IRRIGATION SPRINKLER HEAD
-	STONE		IRRIGATION CONTROL VALVE
CP <u>∧</u>	CONTROL POINT	МВ	MAIL BOX
↔ ↔	PERMANENT BENCHMARK	<u> </u>	SIGN
$\mathbf{\nabla}$		\otimes	POST
	CONTOUR MAJOR	O^{FP}	FLAG POLE
	CONTOUR MINOR	AC	AIR CONDITIONING UNIT
003	DECIDUOUS TREE, SIZE AS NOTED		CABLE TV RISER
the state	CONIFER TREE, SIZE AS NOTED	•	BORE HOLE, AS NOTED
	BUSH, SIZE AS NOTED		SANITARY SEWER LINE
¢	LIGHT POLE	-	
С	POWER POLE		
×	ELECTRIC RISER	X	WIRE
EB	ELECTRIC BOX	O	
EM O	ELECTRIC METER		— WOVEN WIRE
	GUT WIRE ANCHOR		— POLY VINYL
\Leftrightarrow	PEDESTAL, AS NOTED	OHE	— ELECTRIC LINE
$\overset{\mathfrak{o}}{\bigcirc}$	SANITARY SEWER CLEAN OUT	UE	— UNDERGROUND ELECTRIC LINE
\bigcirc^{GP}	GRINDER PUMP	T	— TELEPHONE LINE
ST	SEPTIC TANK	UT	UNDERGROUND TELEPHONE LINE
S	SANITARY SEWER MANHOLE	CTV	— CABLE TV LINE
D	STORM SEWER MANHOLE	G	—— GAS LINE
\bigcirc	TELEPHONE MANHOLE	W	WATER LINE
	TELEPHONE RISER	GW	—— GAS & WATER LINE
GV ⊠	GAS VALVE	FO	— FIBER OPTIC LINE
GM O	-	IRR	IRRIGATION LINE
_	GAS METER	FM	— FORCE MAIN LINE
	WELL		TREE LINE
0	WATER METER		

------ FL------ FLOWLINE



CONSTRUCTION DOCUMENTS



SECTION 27, TOWNSHIP 22N, RANGE 22W TANEY COUNTY, MISSOURI

ID	NORTHING	EASTING	ELEV.	DESCRIPTION
1	272219.3386	1405291.7581	965.17	CP1 60D
2	272098.8723	1405097.0978	957.31	CP2 60D
3	271457.1901	1405287.2088	940.53	CP3 60D
4	271437.3401	1405108.5624	939.23	CP4 60D

HORIZONTAL COORDINATES ARE BASED ON THE MISSOURI COORDINATE SYSTEM OF 1983, CENTRAL ZONE.

BENCHMARK DATA: BM1 - X IN SQUARE CUT OF SOUTHWEST CORNER OF CONCRETE PAD FOR TRASH BIN. BIN LOCATED IMMEDIATELY EAST OF PAD SITE 240. ELEVATION = 970.38'

BM2 - X IN SQUARE CUT OF NORTHWEST CORNER OF CONCRETE SIDEWALK ON NORTH SIDE AND WEST END OF SHOWER BUILDING. ELEVATION = 962.19'

BM3 - X IN SQUARE CUT OF NORTHWEST CORNER OF CONCRETE PAD FOR WATER HYDRANT LOCATED EAST OF PAD SITE 286 AND IMMEDIATELY SOUTH OF SANITARY SEWER LIFT STATION. ELEVATION = 942.04'

VERTICAL DATUM: NAVD88

DESIGNER:

GREAT RIVER ENGINEERING 2826 S. INGRAM MILL ROAD SPRINGFIELD, MO 65804 PHONE: (417) 886-7171 www.greatriv.com

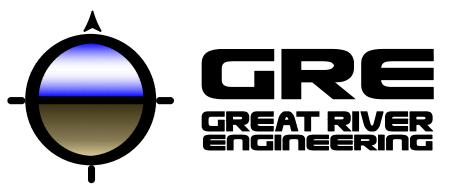
SHEET INDEX

DESCRIPTION COVER SHEET **DEMOLITION** SITE LAYOUT. SITE GRADING SEDIMENT & E WATERLINE A **PROPOSED** WA SANITARY SEV SANITARY SEV WATER DETAI CAMPSITE DE SEWER DETAI SEWER DETAI WALL DETAIL BOOSTER PUM BOOSTER PUM SITE ELECTRIC SITE ELECTRIC

UTILITY CONTACTS

ELECTRIC WHITE RIVER VALLEY ELECTRIC COOPERATIVE JOE DONOVAN PHONE: (417) 335-9335

WATER & SANITARY SEWER TABLE ROCK STATE PARK WATER SYSTEM CAYLEN CANTRELL PHONE: (417) 334-4704



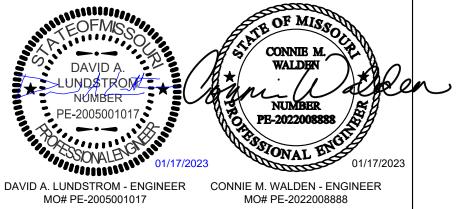
Great River Engineering Missouri State Certificate of Authority Numbers: Engineering: 2000156885, Land Surveying: 2001011476, andscape Architecture: 2007013673

	SHEET NO.
¬	G-001
PLAN AND EXISTING CONDITIONS	
	C-102
Ĵ	C-103
EROSION CONTROL PLAN	C-104
A	C-105
ATER AND SEWER	C-106
WER A	C-107
WER B & LIFT STATION REPAIRS	
ILS	C-501
TAILS	C-502
LS	C-503
LS	C-504
_S	C-505
/IP PLAN VIEW	M-101
AP SECTION VIEW	
CAL PLAN AND DETAILS	
CAL PLAN AND DETAILS	

UTILITY DISCLAIMER

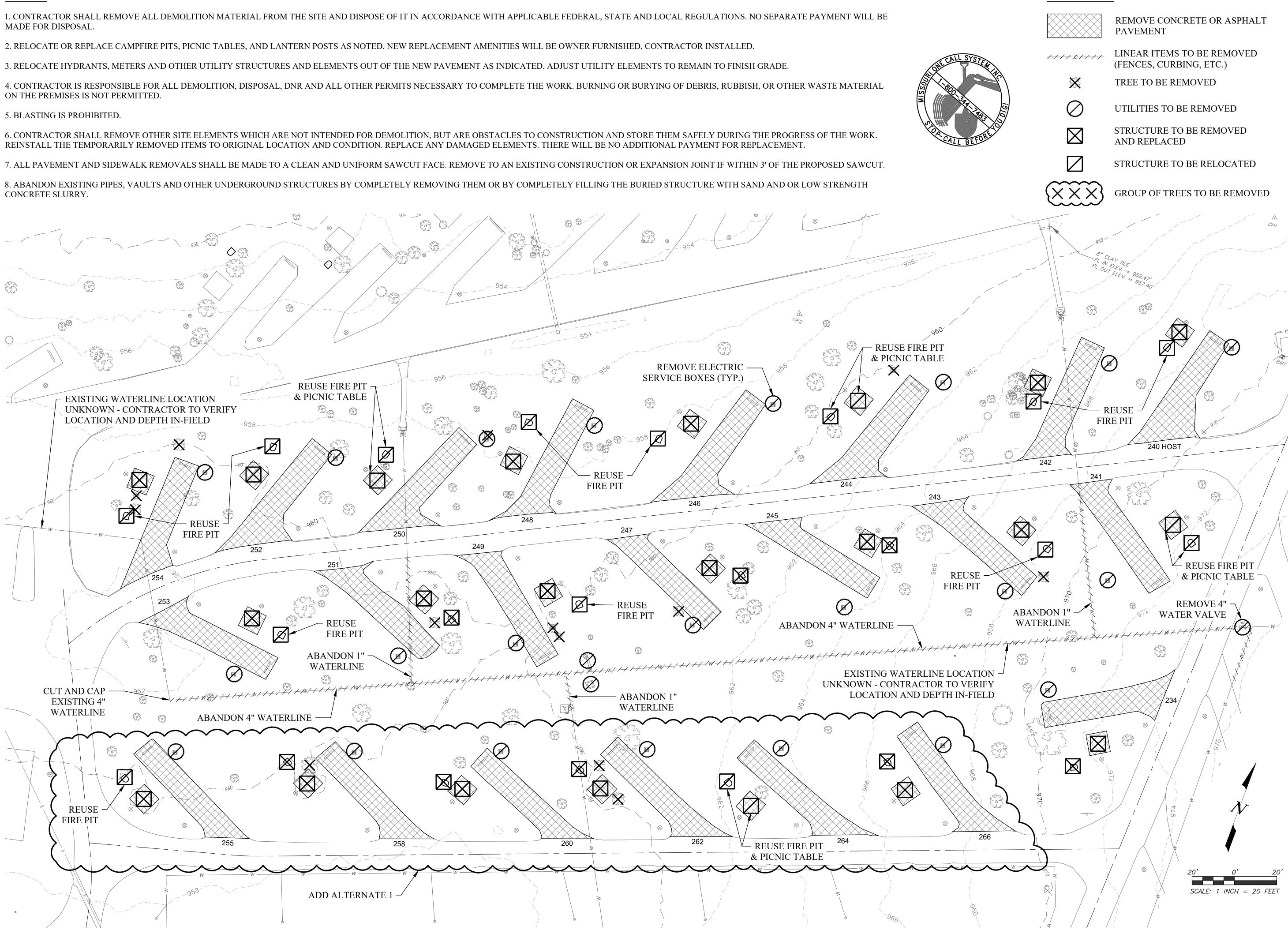
THE UNDERGROUND UTILITIES DEPICTED ON THIS SURVEY, ARE THOSE DISCOVERED BY FIELD INSPECTION, OR LOCATED BY UTILITY COMPANY REPRESENTATIVES; AND MAY NOT BE ALL THE UTILITIES ON OR NEAR THE PROPERTY. AFTER USING REASONABLE CARE IN THE LOCATION OF THOSE UTILITIES SHOWN, WE REFRAIN FROM WARRANTING EITHER THE LOCATION OF, OR COMPLETENESS OF, THOSE UTILITIES SHOWN, AS BEING ALL UTILITIES POSSIBLY AFFECTING THE SUBJECT PROPERTY.

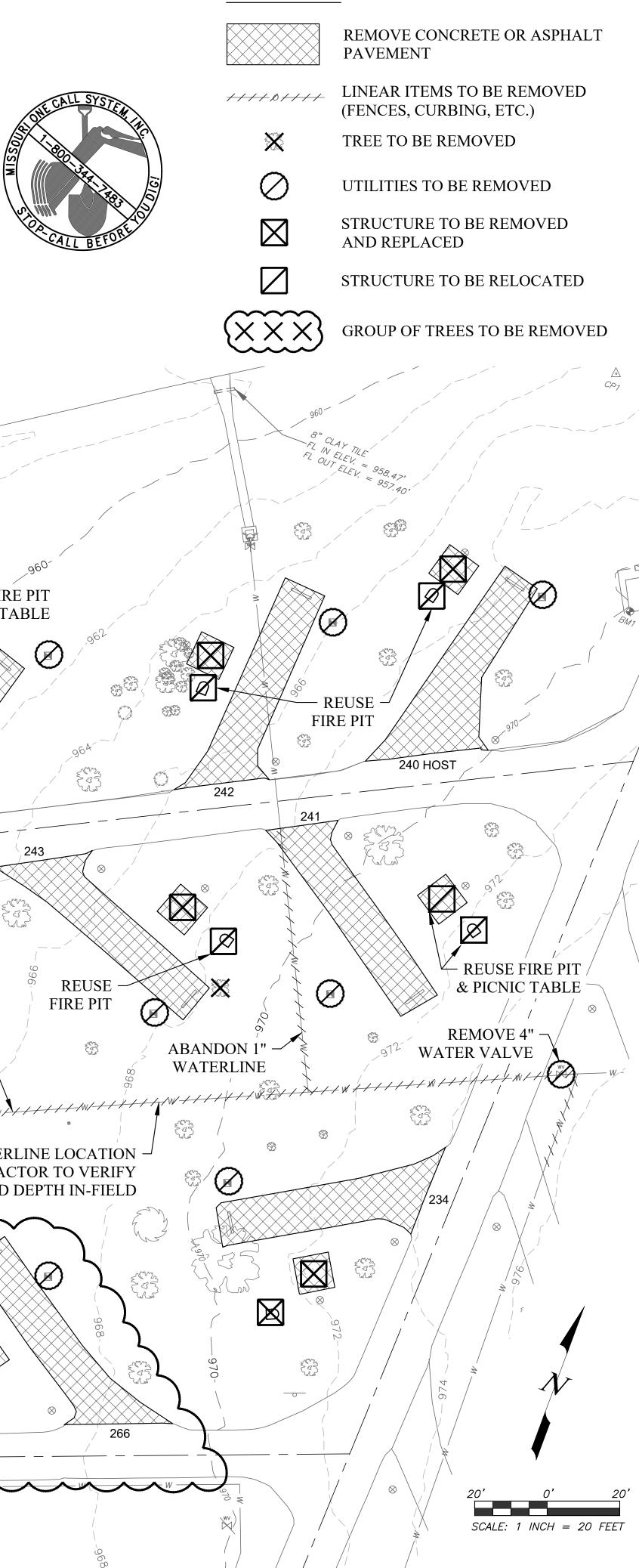




SHEET NUMBER: G-001 1 OF 18 SHEETS JANUARY 17, 2023

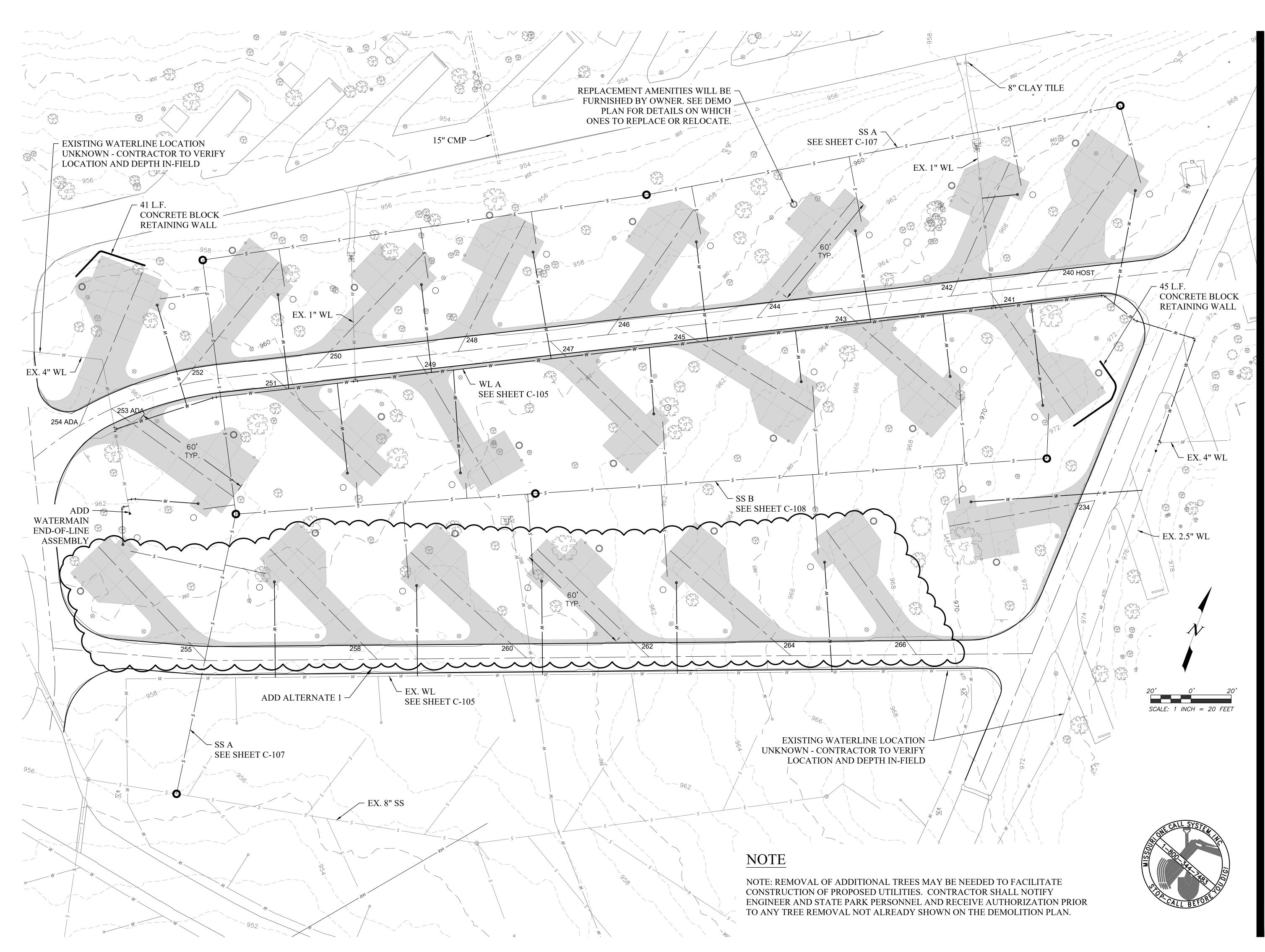
NOTE





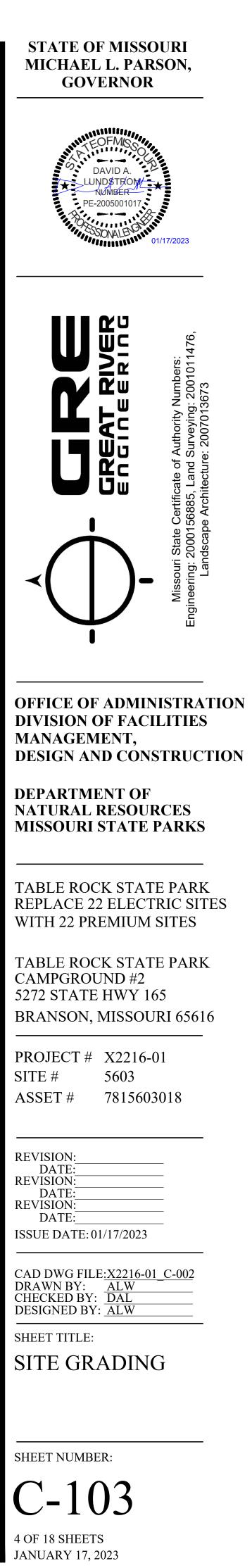
LEGEND:

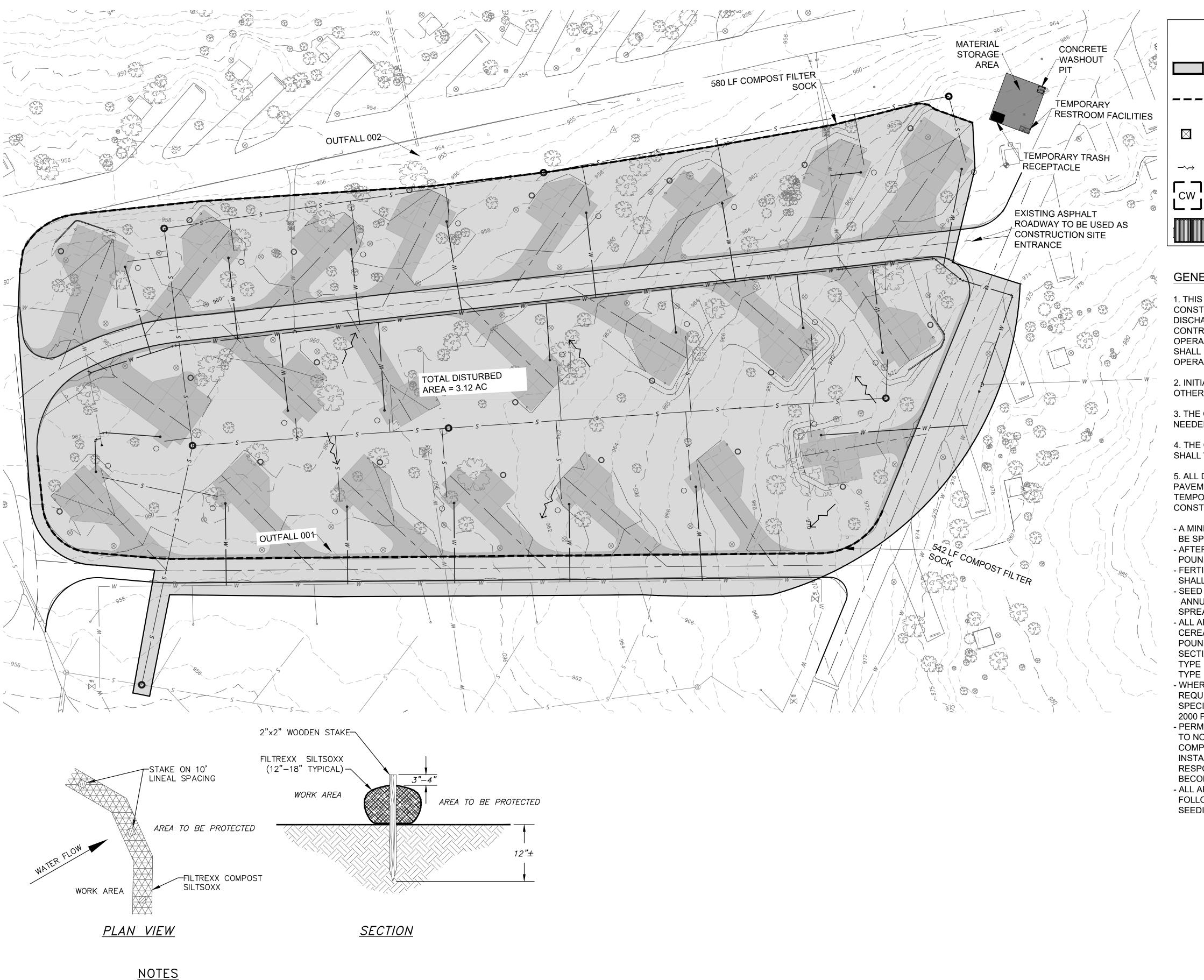
STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR	
DAVID A. LUNDS/TROM/ PE-2005001017 PE-2005001017 01/17/2023	
CompositionC	
OFFICE OF ADMINISTRATIC DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTIC DEPARTMENT OF NATURAL RESOURCES MISSOURI STATE PARKS	
TABLE ROCK STATE PARK REPLACE 22 ELECTRIC SITES WITH 22 PREMIUM SITES TABLE ROCK STATE PARK CAMPGROUND #2 5272 STATE HWY 165 BRANSON, MISSOURI 65616 PROJECT # X2216-01 SITE # 5603 ASSET # 7815603018	
REVISION: DATE: REVISION: DATE: DEMOLITION PLAN AND EXISTING CONDITIONS	
sheet number: $C-101$	



STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR	
DAVID A. LUNDSTROM PE-2005001017 PE-2005001017 DAVID A. LUNDSTROM PE-2005001017 DAVID A. LUNDSTROM	
ControlCon	
OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION DEPARTMENT OF NATURAL RESOURCES MISSOURI STATE PARKS	
TABLE ROCK STATE PARK REPLACE 22 ELECTRIC SITES WITH 22 PREMIUM SITES	
TABLE ROCK STATE PARK CAMPGROUND #2 5272 STATE HWY 165 BRANSON, MISSOURI 65616	
PROJECT # X2216-01 SITE # 5603 ASSET # 7815603018	
REVISION: DATE: REVISION: DATE: REVISION: DATE: DATE: ISSUE DATE: 01/17/2023	
CAD DWG FILE:X2216-01_C-002 DRAWN BY: ALW CHECKED BY: DAL DESIGNED BY: ALW	
SHEET TITLE:	
SHEET TITLE:	







1. ALL MATERIAL TO MEET FILTREXX SPECIFICATIONS OR EQUAL.

2. SILTSOXX COMPOST/SOIL/ROCK/SEED FILL TO MEET APPLICATION REQUIREMENTS.

3. SILTSOXX DEPICTED IS FOR MINIMUM SLOPES. GREATER SLOPES MAY REQUIRE LARGER SOCKS PER THE ENGINEER.

4. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY THE ENGINEER.

5. SILTSOXX TO BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.

SILT SOXX EROSION CONTROL NOT TO SCALE

LEGEND

- DISTURBED AREA = 3.12 ACRES
- COMPOST FILTER SOCK
- TEMPORARY RESTROOM
- FLOW DIRECTION
- CONCRETE WASHOUT PIT
- TRASH RECEPTACLE

GENERAL NOTES FOR SEDIMENTATION & EROSION CONTROL

. THIS PLAN SHOWS THE LOCATION AND DETAILS FOR PRIMARY SEDIMENT CONTROLS TO BE CONSTRUCTED. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING EROSION AND DISCHARGE OF SEDIMENT FROM THE SITE AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE NECESSARY MEASURES DURING ALL PHASES OF HIS OPERATIONS REGARDLESS OF WHETHER THEY ARE SPECIFICALLY NOTED ON THIS PLAN AND SHALL MAINTAIN AND REPLACE CONTROLS AS NECESSARY DURING THE COURSE OF HIS OPERATIONS.

SCALE 1 INCH = 30 FEE

2. INITIAL SEDIMENT CONTROLS SHOWN ON THIS PLAN MUST BE INSTALLED PRIOR TO ANY OTHER WORK.

3. THE CONTRACTOR SHALL CLEAN STREETS BOTH INTERIOR AND ADJACENT TO THE SITE, AS NEEDED AFTER EACH RAINFALL, AND AT THE END OF EACH DAY OF CONSTRUCTION.

4. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING DUST DURING CONSTRUCTION AND SHALL WATER CONSTRUCTION AREAS WHENEVER CONDITIONS WARRANT.

5. ALL DISTURBED AREAS NOT RECEIVING OTHER PERMANENT STABILIZATION SUCH AS PAVEMENT, SOD, ETC., SHALL BE SEEDED AND MULCHED, AS SPECIFIED BELOW BEFORE TEMPORARY SEDIMENT CONTROLS CAN BE REMOVED AND PRIOR TO FINAL APPROVAL OF CONSTRUCTION.

- A MINIMUM DEPTH OF 4" OF TOPSOIL (PRIOR TO COMPACTING) SHALL BE SPREAD ON AREAS TO BE SEEDED
- AFTER TOPSOIL IS SPREAD, LIME SHALL BE SPREAD AT THE RATE OF 800-900
- POUNDS, EFFECTIVE NEUTRALIZING MATERIAL (ENM) PER ACRE. FERTILIZER SHALL BE SPREAD AT THE RATE OF 400-500 POUNDS PER ACRE, AND SHALL BE 13-13-13 NITROGEN, PHOSPHORUS, AND POTASSIUM.
- SEED MIX SHALL CONSIST OF 60-80 % KENTUCKY 31 TALL FESCUE AND 20-40 % ANNUAL RYE GRASS (GERMINATION SHALL BE AT LEAST 85
- SPREAD AT THE RATE OF 400-500 POUNDS PER ACRE).

- ALL AREAS TO BE SEEDED HAVING SLOPES LESS THAN 4:1 SHALL BE MULCHED WITH CEREAL GRAIN MULCH AT THE RATE OF 100 POUNDS PER 1000 SQUARE FEET (4500 POUNDS PER ACRE). CEREAL GRAIN MULCH SHALL MEET THE REQUIREMENTS OF SECTION 802 OF THE MISSOURI DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR TYPE I MULCH. MULCH MAY BE APPLIED BY HAND; HOWEVER, IT MUST BE EVENLY SPREAD. TYPE I MULCH SHALL BE THOROUGHLY WETTED IMMEDIATELY AFTER APPLICATION. - WHERE SLOPES ARE 4:1 OR STEEPER, TYPE 3 MULCH ("HYDROMULCH") MEETING THE REQUIREMENTS OF SECTION 802 OF THE MISSOURI DEPARTMENT OF TRANSPORTATION SPECIFICATIONS SHALL BE USED. TYPE 3 MULCH SHALL BE APPLIED AT THE RATE OF 2000 POUNDS PER ACRE.

- PERMANENT SEEDING SEASON RUNS FROM MARCH 1ST TO JUNE 1ST AND AUGUST 15TH TO NOVEMBER 1ST. SEEDING AND MULCHING MUST BE DONE WHENEVER WORK IS COMPLETE REGARDLESS OF THE SEASON. WHENEVER SEEDING AND MULCH IS INSTALLED OUTSIDE OF THE PERMANENT SEEDING SEASON THE CONTRACTOR WILL BE RESPONSIBLE FOR REPLANTING AND MULCHING ANY AREAS WHERE GROWTH HAS NOT BECOME ESTABLISHED DURING THE NEXT PERMANENT SEEDING SEASON. - ALL AREAS MUST BE MAINTAINED BY THE CONTRACTOR FOR A MINIMUM OF 60 DAYS FOLLOWING INSTALLATION OR 60 DAYS FROM THE START OF THE FIRST PERMANENT SEEDING SEASON AFTER INSTALLATION.



STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR





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

DEPARTMENT OF NATURAL RESOURCES MISSOURI STATE PARKS

TABLE ROCK STATE PARK **REPLACE 22 ELECTRIC SITES** WITH 22 PREMIUM SITES

TABLE ROCK STATE PARK CAMPGROUND #2 5272 STATE HWY 165 BRANSON, MISSOURI 65616

PROJECT # X2216-01 SITE # 5603 7815603018 ASSET #

REVISION: DATE: **REVISION:** DATE: **REVISION:** DATE: ISSUE DATE: 01/17/2023

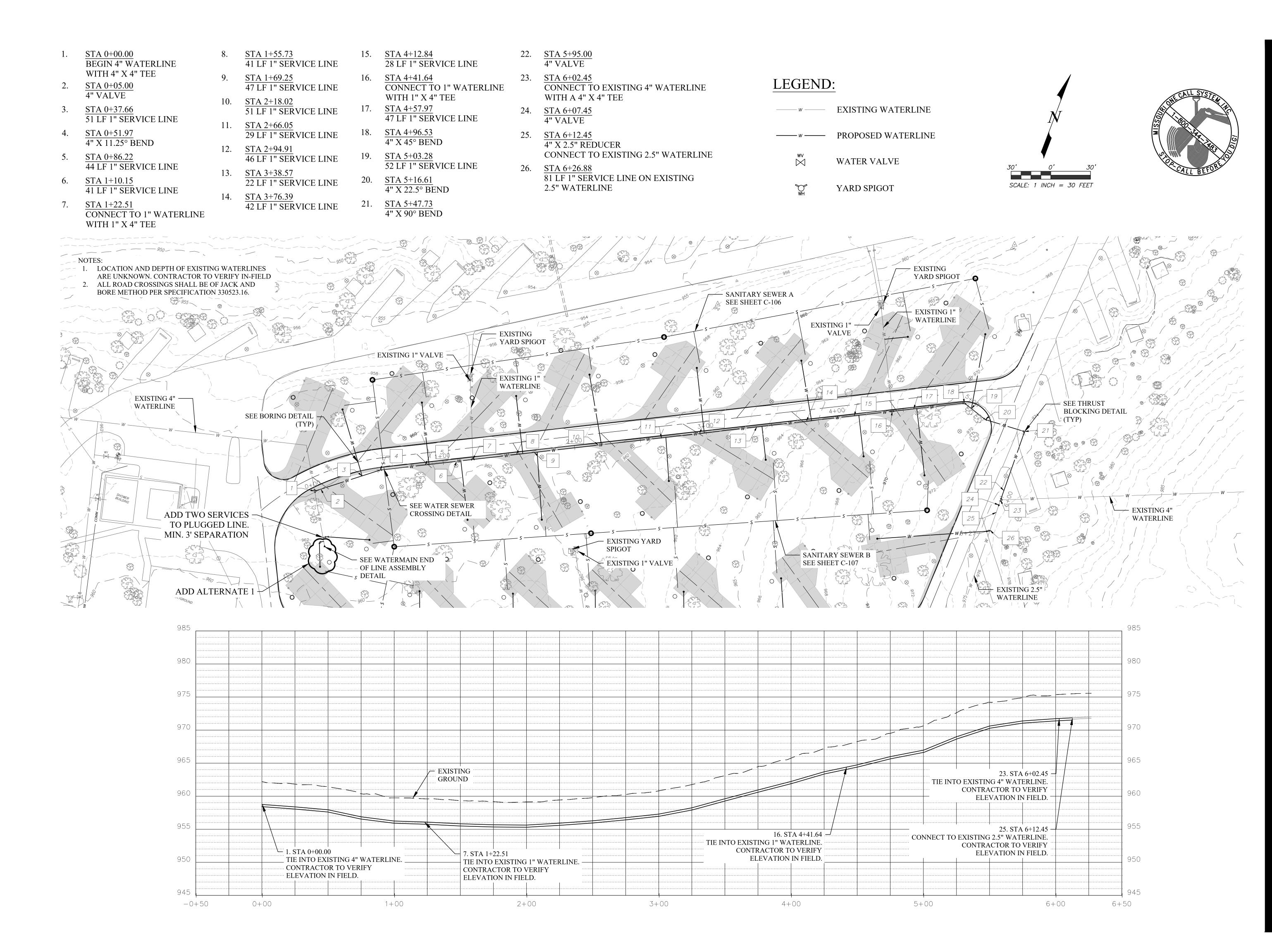
CAD DWG FILE:X2216-01 C-005 DRAWN BY: MA CHECKED BY: DAI DESIGNED BY: MAF

SHEET TITLE:

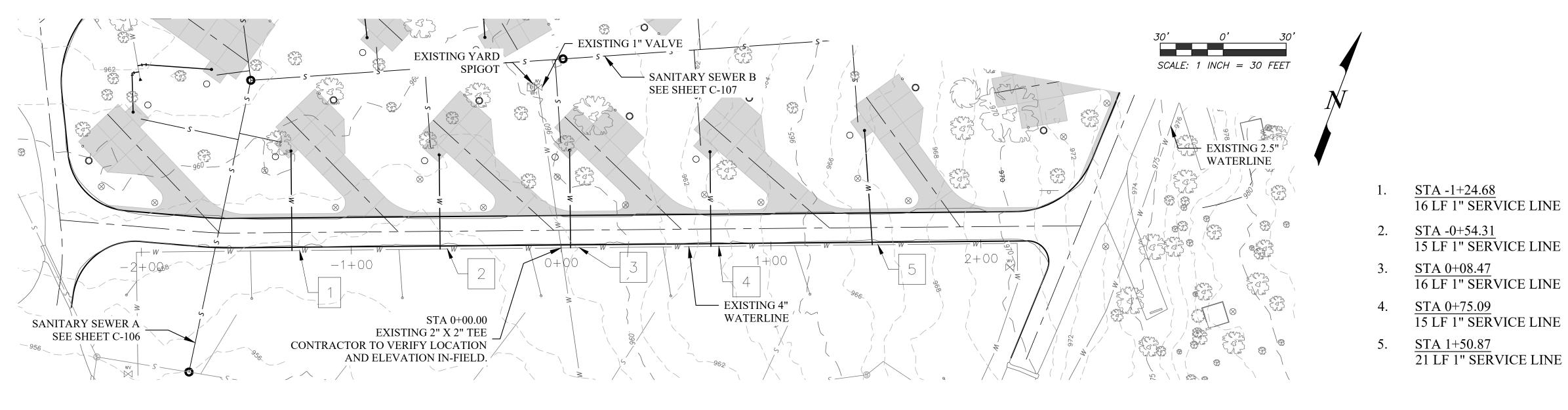
SEDIMENT & **EROSION CONTROL** PLAN

SHEET NUMBER:

C-1045 OF 18 SHEETS JANUARY 17, 2023



STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR				
NUMBER PE-2022008888 PE-2022008888 01/17/2023				
	Missouri State Certificate of Authority Numbers: Engineering: 2000156885, Land Surveying: 2001011476, Landscape Architecture: 2007013673			
OFFICE OF ADMIN DIVISION OF FACII MANAGEMENT, DESIGN AND CONS	LITIES			
DEPARTMENT OF NATURAL RESOURCES MISSOURI STATE PARKS				
TABLE ROCK STATE PARK REPLACE 22 ELECTRIC SITES WITH 22 PREMIUM SITES				
TABLE ROCK STATE PARK CAMPGROUND #2 5272 STATE HWY 165 BRANSON, MISSOURI 65616				
PROJECT # X2216-0 SITE # 5603 ASSET # 7815603				
REVISION: DATE: REVISION: DATE: REVISION: DATE: DATE: ISSUE DATE: 01/17/2023	-			
CAD DWG FILE:X2216-01 DRAWN BY: ALW CHECKED BY: CMW DESIGNED BY: ALW SHEET TITLE: WATER LINE A				
SHEET NUMBER: $C-105$				
6 OF 18 SHEETS JANUARY 17, 2023				

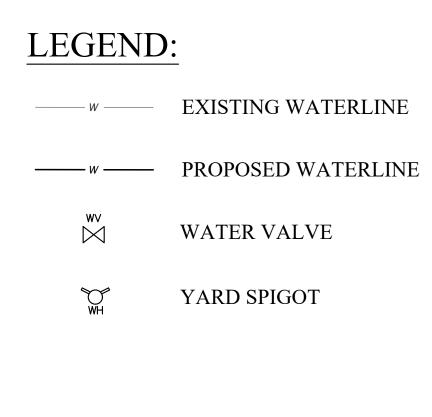


SCALE: 1 INCH = 75 FEET



WATER SYSTEM FACILITIES AND SEWER CONNECTION TO TANEY COUNTY REGIONAL SEWER DISTRICT

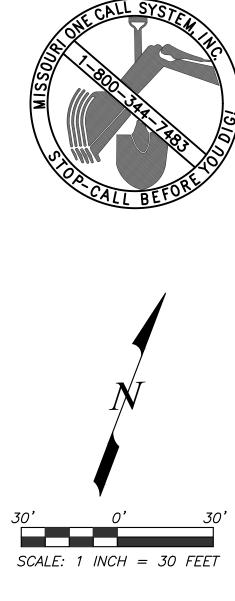
SERVICES ON EXISTING WATERLINE PLAN - ADD ALTERNATE #1

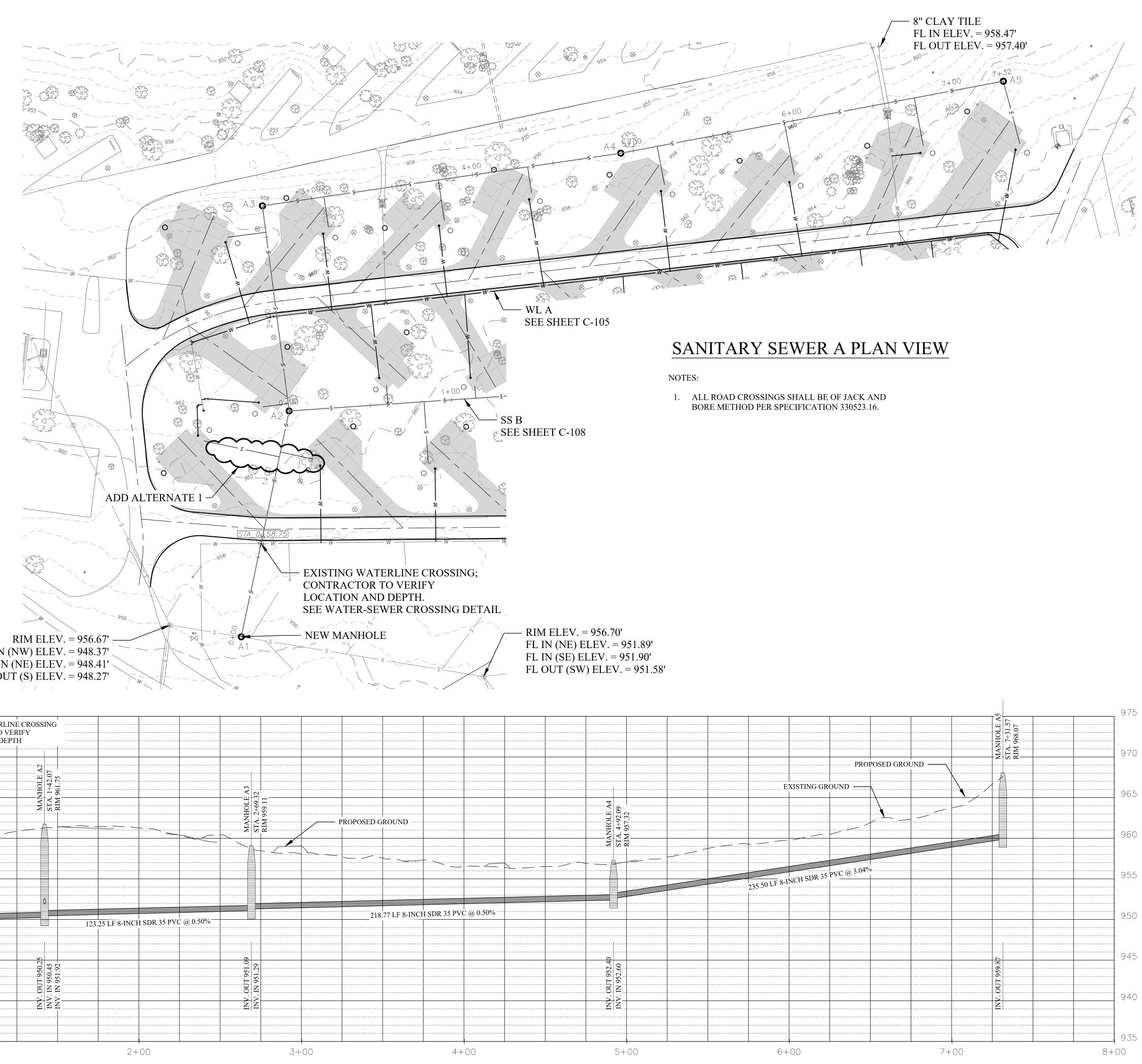


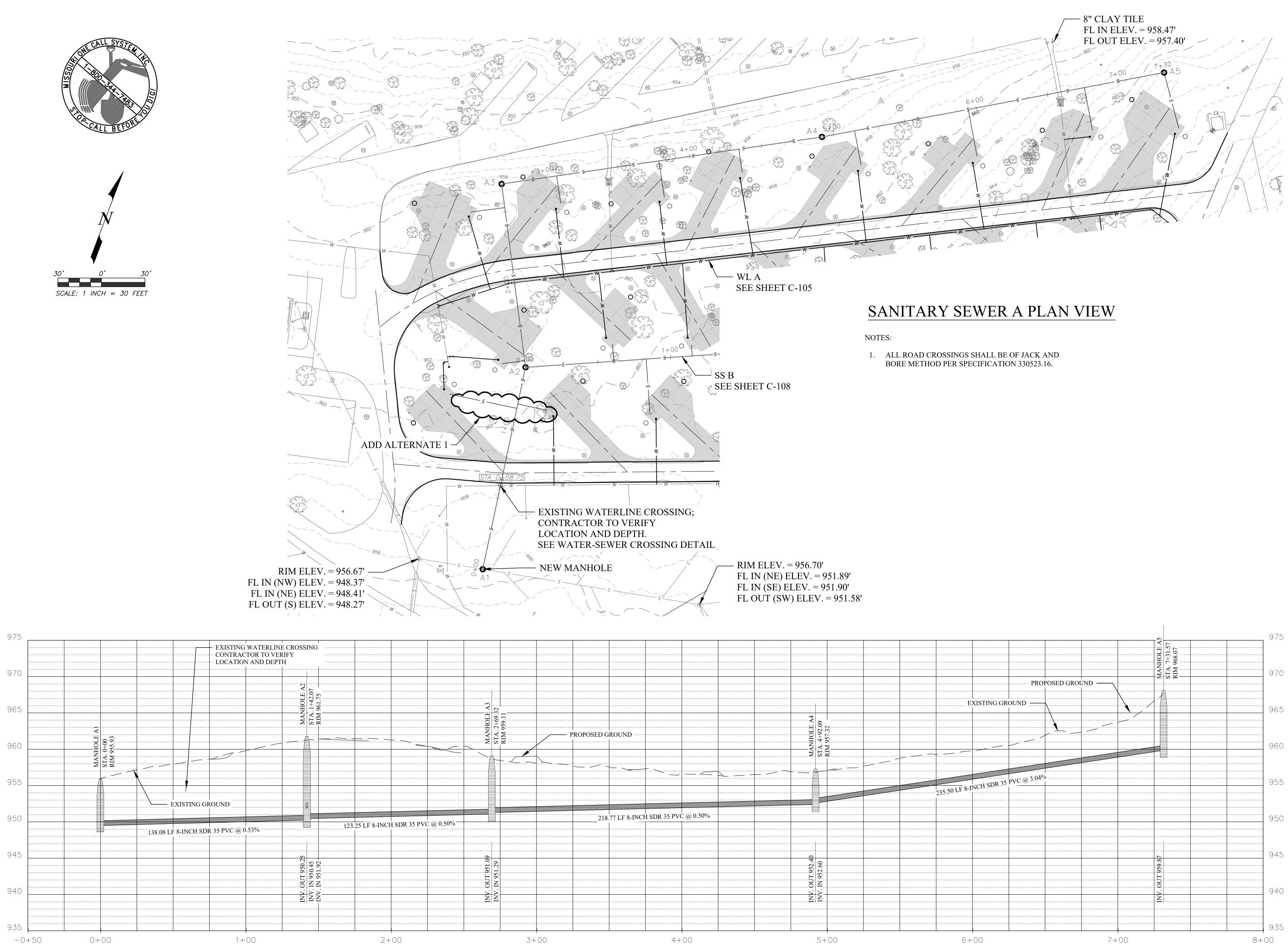




JANUARY 17, 2023



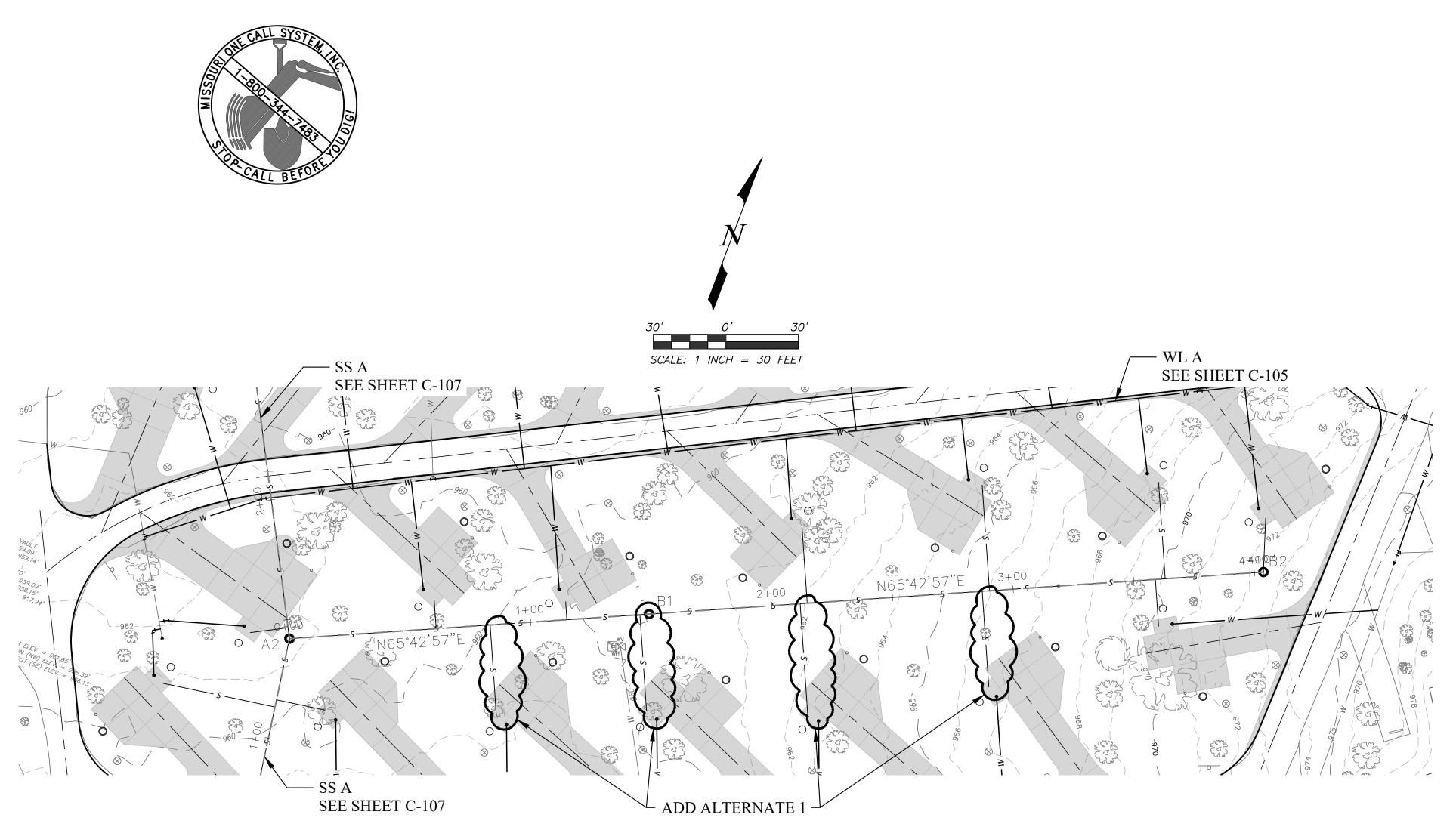




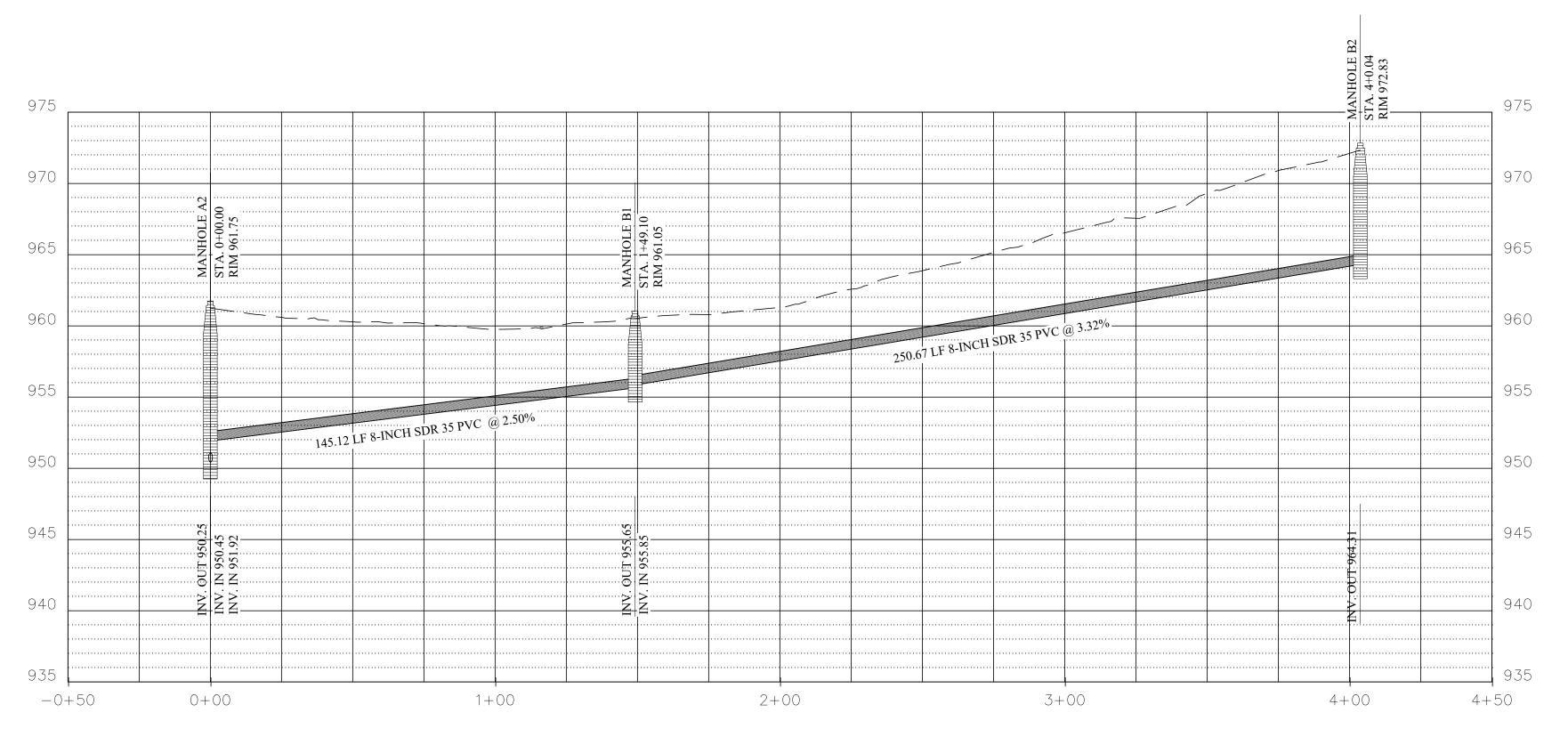
SANITARY SEWER A PROFILE

			075
		07 07 07	975
PROPOSED GROU	JND	MANHOLE A5 STA. 7+31.57 RIM 968.07	970
GROUND			965
			960
35 PVC @ 3.04%			955
		·····	950
		959.87	945
		INV. OUT	940
			935
	7+00		8+00

STATE OF MISSO MICHAEL L. PARS GOVERNOR	
NUMBER PE-2022008888 STONAL ENGINE	Pen 17/20233
CREAT RIVER	Missouri State Certificate of Authority Numbers: Engineering: 2000156885, Land Surveying: 2001011476, Landscape Architecture: 2007013673
OFFICE OF ADMINI DIVISION OF FACII MANAGEMENT, DESIGN AND CONS' DEPARTMENT OF NATURAL RESOUR MISSOURI STATE P	LITIES FRUCTION CES
TABLE ROCK STATE REPLACE 22 ELECTE WITH 22 PREMIUM S	RIC SITES SITES
TABLE ROCK STATE CAMPGROUND #2 5272 STATE HWY 16: BRANSON, MISSOUF	5 81 65616
PROJECT # X2216-0 SITE # 5603 ASSET # 78156030	
REVISION: DATE: REVISION: DATE: REVISION: DATE: ISSUE DATE: 01/17/2023	-
CAD DWG FILE:X2216-01 DRAWN BY: <u>ALW</u> CHECKED BY: <u>CMW</u> DESIGNED BY: <u>ALW</u> SHEET TITLE: SANITARY SEV	
SHEET NUMBER:	
C-107	

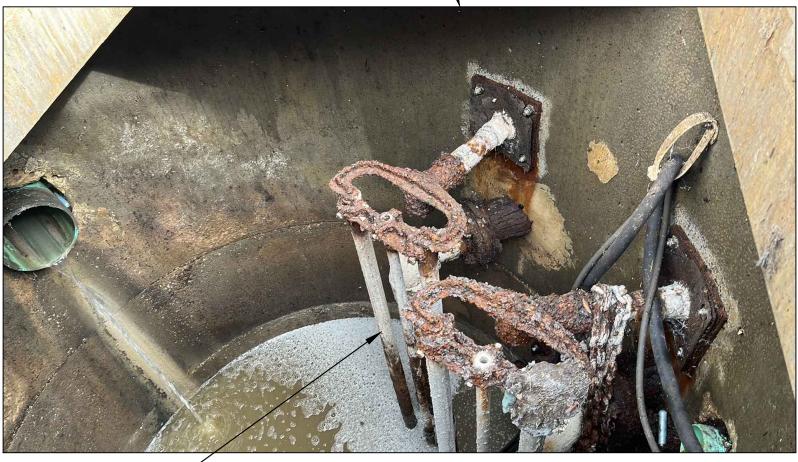


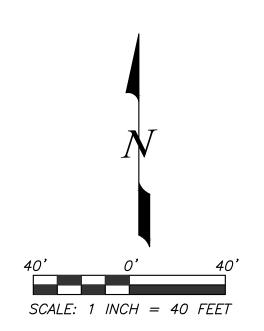
SANITARY SEWER B PLAN VIEW



SANITARY SEWER B PROFILE







EXISTING YURT

FAILING LIFT OUT RAIL SYSTEM TO BE REPLACED

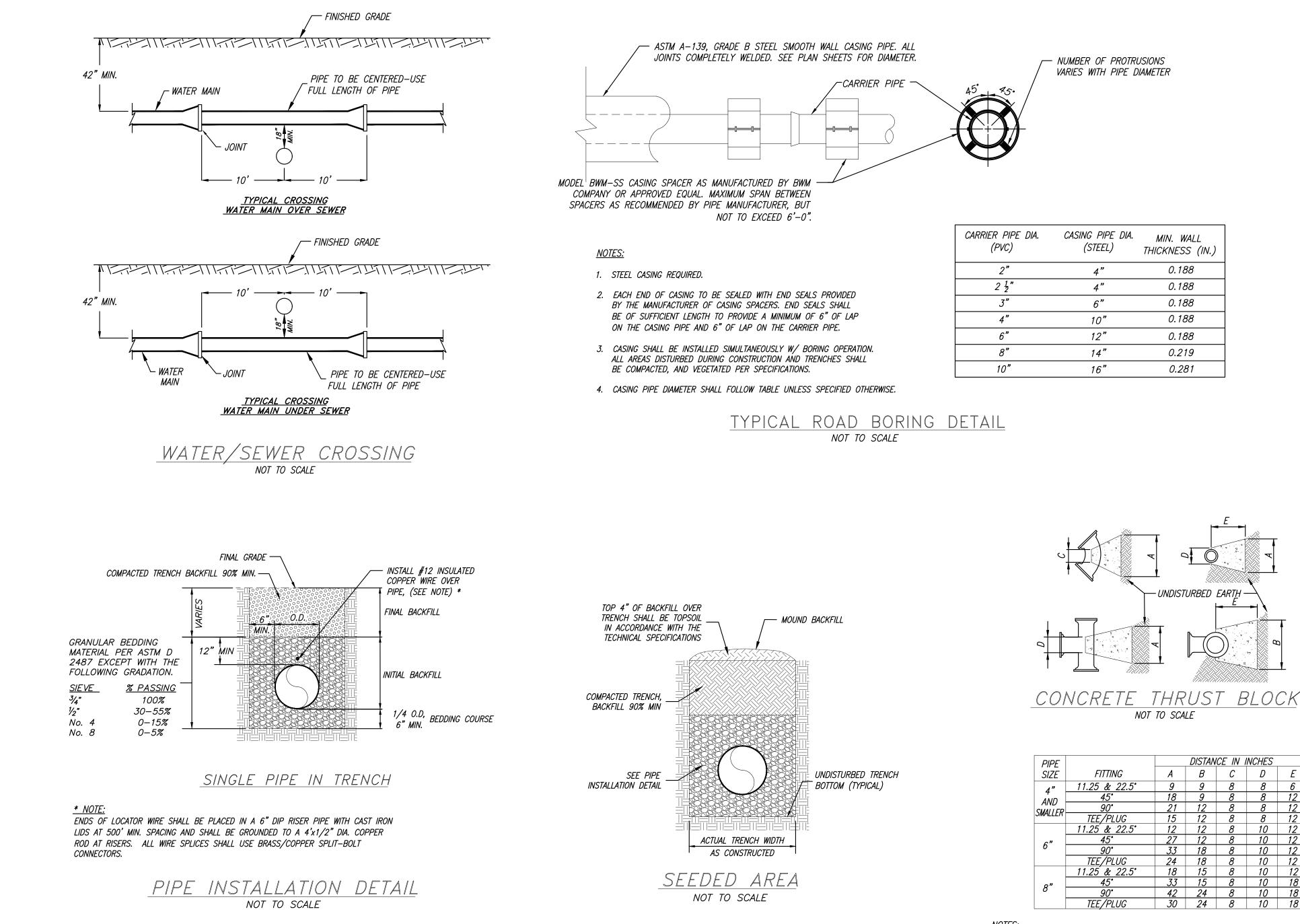
ADD ALTERNATE #2: ADD NEW GENERATOR AS DESCRIBED IN SPECIFICATION 262500

C REPLACE LIFT OUT RAIL SYSTEM AS **DESCRIBED IN SPECIFICATION 333000**

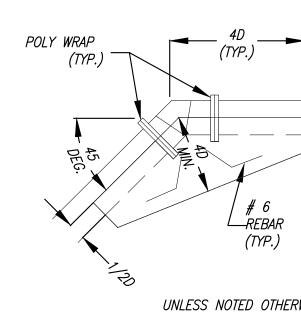
LIFT STATION AT CAMPGROUND #2



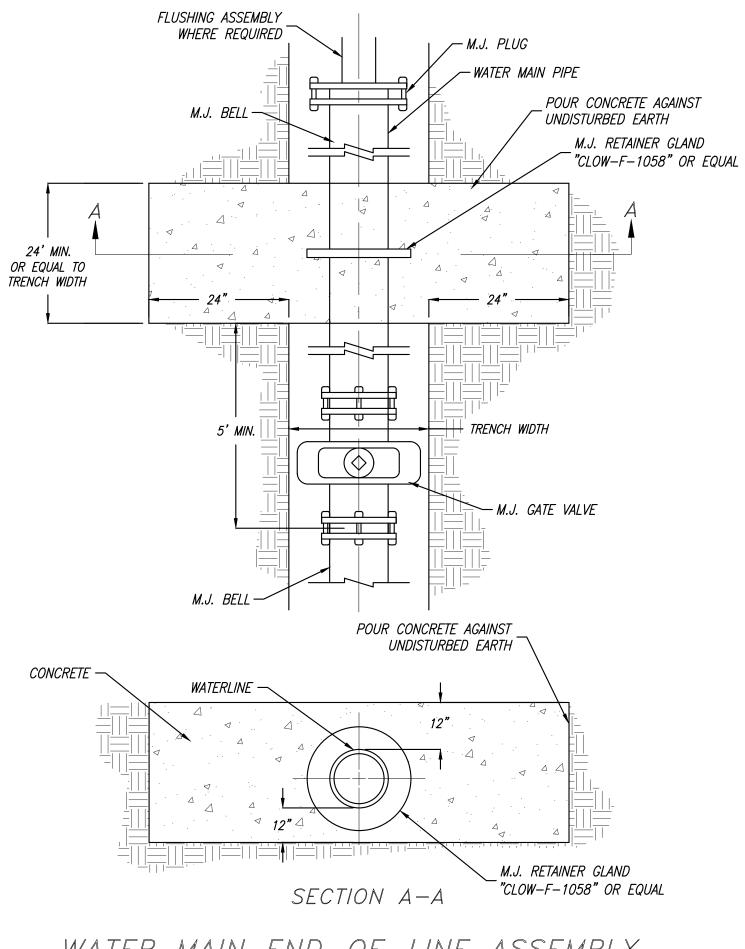
JANUARY 17, 2023



6"	0F	LAP	ON	THE	CARRIER PIPE.
D	SIM	ULTAI	VEOL	ISLY	W/ BORING OPERATION.
'ING	; CC	ONSTI	RUCI	ION .	AND TRENCHES SHALL
ΓΛΤ	הח	DED	CDE	NEIA.	ATIONS



AT ALL FITTING LOCATIONS.



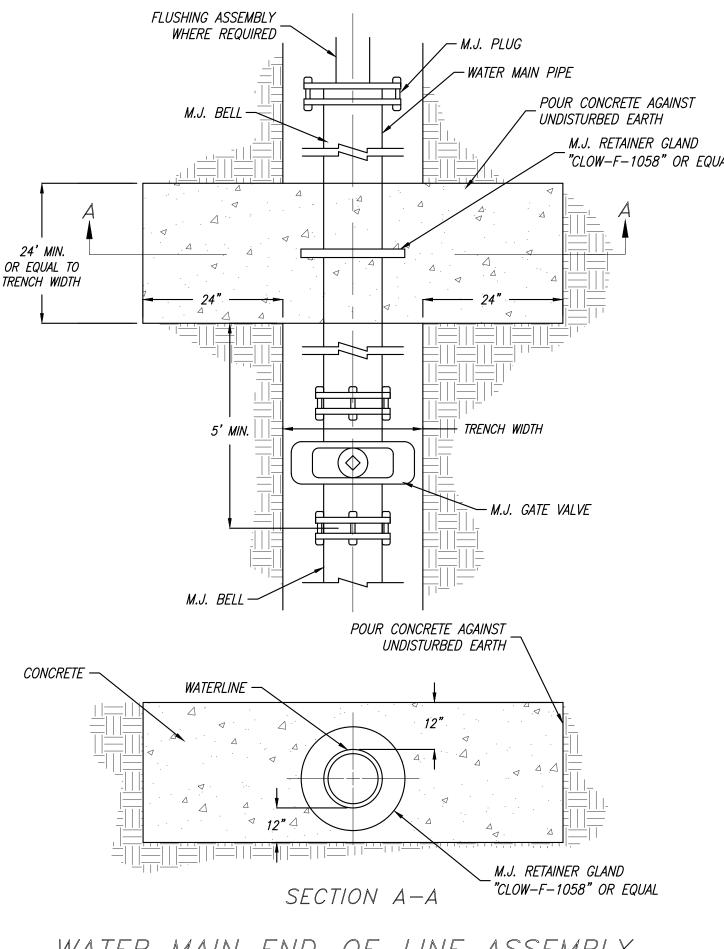
PIPE		DISTANCE IN INCHES				
SIZE	FITTING	A	В	С	D	Ε
4"	11.25 & 22.5°	9	9	8	8	6
AND	45°	18	9	8	8	12
SMALLER	90 °	21	12	8	8	12
SMALLEN	TEE/PLUG	15	12	8	8	12
	11.25 & 22.5°	12	12	8	10	12
6"	45°	27	12	8	10	12
0	90°	33	18	8	10	12
	TEE/PLUG	24	18	8	10	12
	11.25 & 22.5°	18	15	8	10	12
8"	45°	33	15	8	10	18
0	90 °	42	24	8	10	18
	TEE/PLUG	30	24	8	10	18

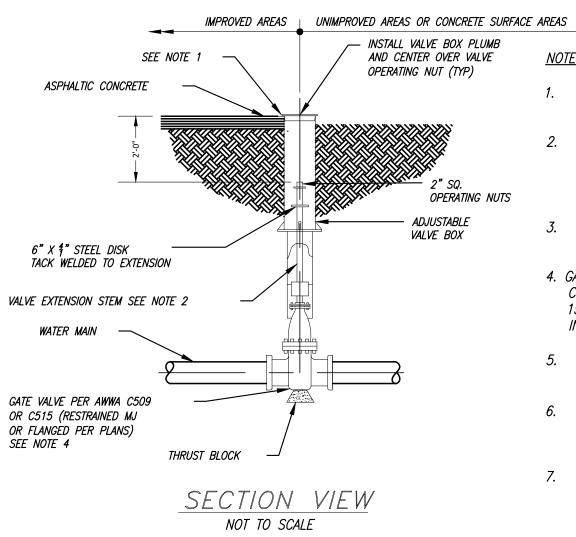
<u>NOTES:</u>

- 1. THRUST BLOCKS ARE BASED ON A WORKING PRESSURE OF 200 P.S.I. PLUS 0% SURGE, & 2000 P.S.F. ALLOWABLE SOIL BEARING PRESSURE.
- 2. FOR PIPE SIZES NOT SHOWN USE DIMENSIONS FOR NEXT LARGER SIZE.
- 3. USE 3/8" PLYWOOD SEPARATOR BETWEEN BLOCKS AND PLUGS TO PROVIDE FOR FUTURE REMOVAL.
- 4. WRAP ALL FITTINGS W/6 MIL POLY PRIOR TO PLACEMENT OF CONCRETE THRUST BLOCKING.

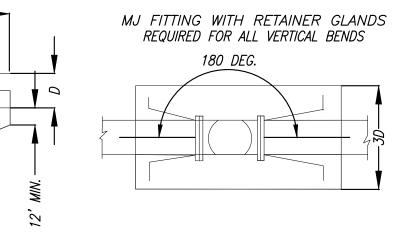
THRUST BLOCKING DETAIL NOT TO SCALE







TYPICAL GATE VALVE DETAIL



UNLESS NOTED OTHERWISE, THRUST BLOCKS SHALL BE INSTALLED

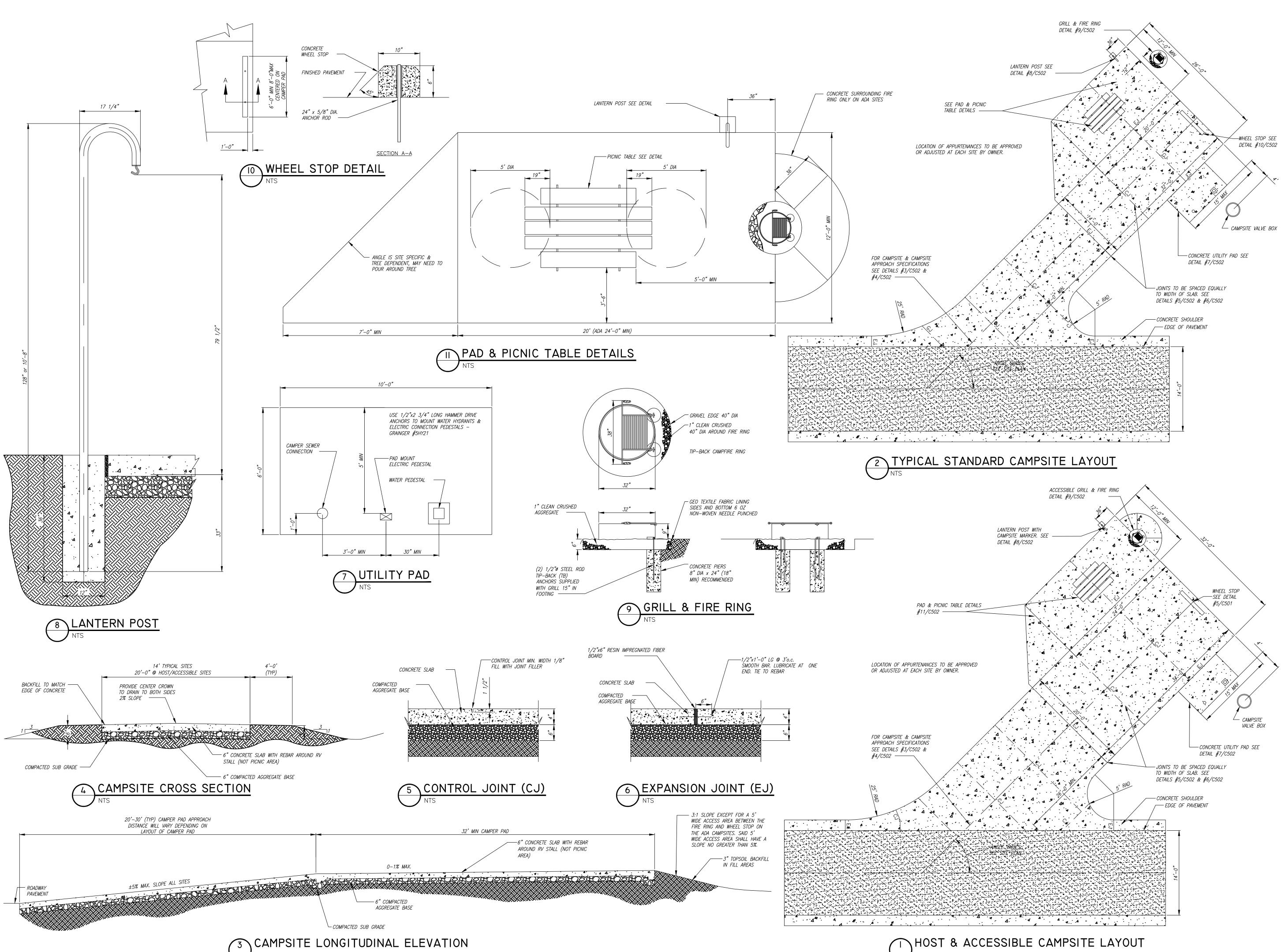


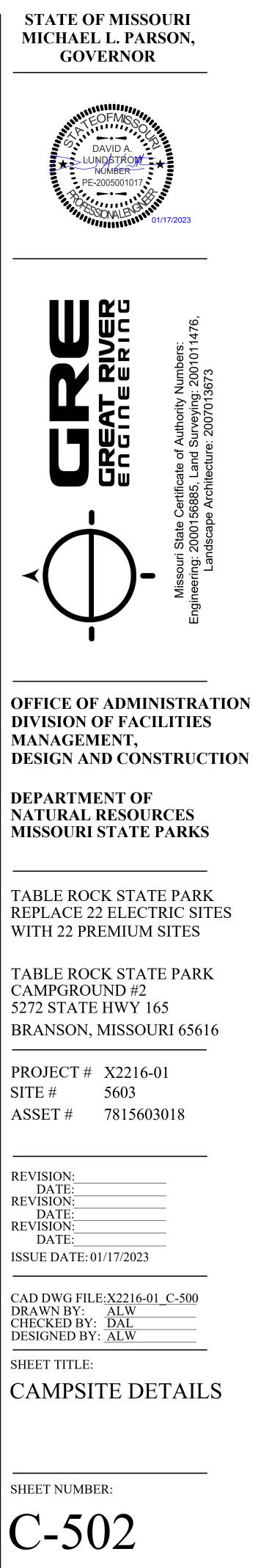
WATER MAIN END-OF-LINE ASSEMBLY NOT TO SCALE

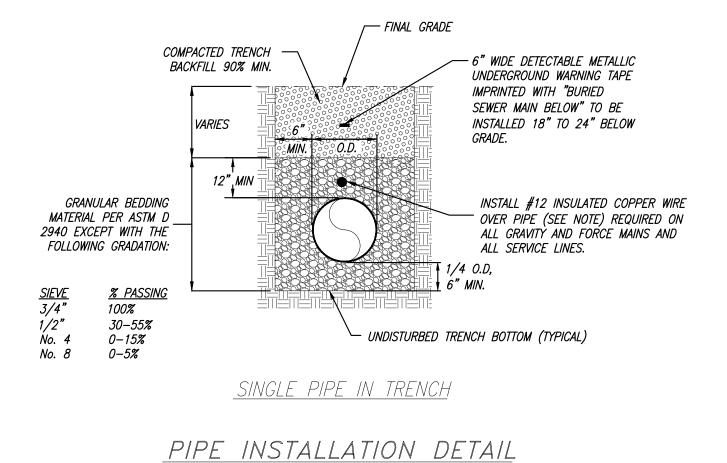
<u>NOTES:</u>

- 1. FINAL RIM ELEVATION TO BE 1/8" TO 1/4" BELOW FINAL STREET GRADE.
- 2. A VALVE EXTENSION STEM SHALL BE PROVIDED WHERE THE DEPTH TO THE OPERATING NUT EXCEEDS FIVE (5) FEET AND SHALL BE 1" BLACK IRON PIPE.
- SEE STANDARD SPECIFICATIONS FOR ALL .3. APPROVED PRODUCTS.
- 4. GATE VALVE: PER AWWA C509 OR C515 AND CITY APPROVED RESILIENT SEAT GATE VALVE, 150 PSI MINIMUM PRESSURE RATING, INTERNAL EPOXY COATED.
- 5. VALVE LIDS SHALL HAVE "WATER" CAST IN THE LID.
- 6. ALL TRACE WIRE SHALL BE #12 TW SOLID, COATED COPPER WIRE RATED FOR UNDERGROUND SERVICE.
- 7. BRING TRACE WIRE TO SURFACE AT A MAXIMUM SPACING OF 500 FEET. THE TRACE WIRE SHALL BE BROUGHT TO THE SURFACE IN VALVE BOXES IF VAULT SPACING IS GREATER THAN 500 FEET.

STATE OF MISSOURI MICHAEL L. PARSON, GOVERNOR
NUMBER PE-2022008888 01/17/2023
<section-header>CompositionCompositionAnd And And And And And And And And And</section-header>
OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION
DEPARTMENT OF NATURAL RESOURCES MISSOURI STATE PARKS
TABLE ROCK STATE PARK REPLACE 22 ELECTRIC SITES WITH 22 PREMIUM SITES
TABLE ROCK STATE PARK CAMPGROUND #2 5272 STATE HWY 165 BRANSON, MISSOURI 65616
PROJECT #X2216-01SITE #5603ASSET #7815603018
REVISION: DATE: REVISION: DATE: REVISION: DATE: DATE: ISSUE DATE: 01/17/2023
CAD DWG FILE:X2216-01_C-500 DRAWN BY: ALW CHECKED BY: CMW DESIGNED BY: CMW
SHEET TITLE: WATER DETAILS
Sheet number: $C-501$

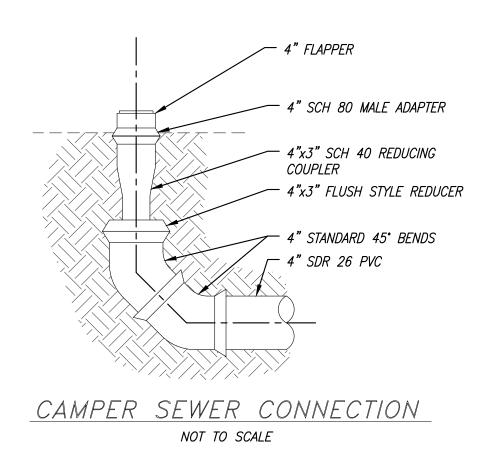


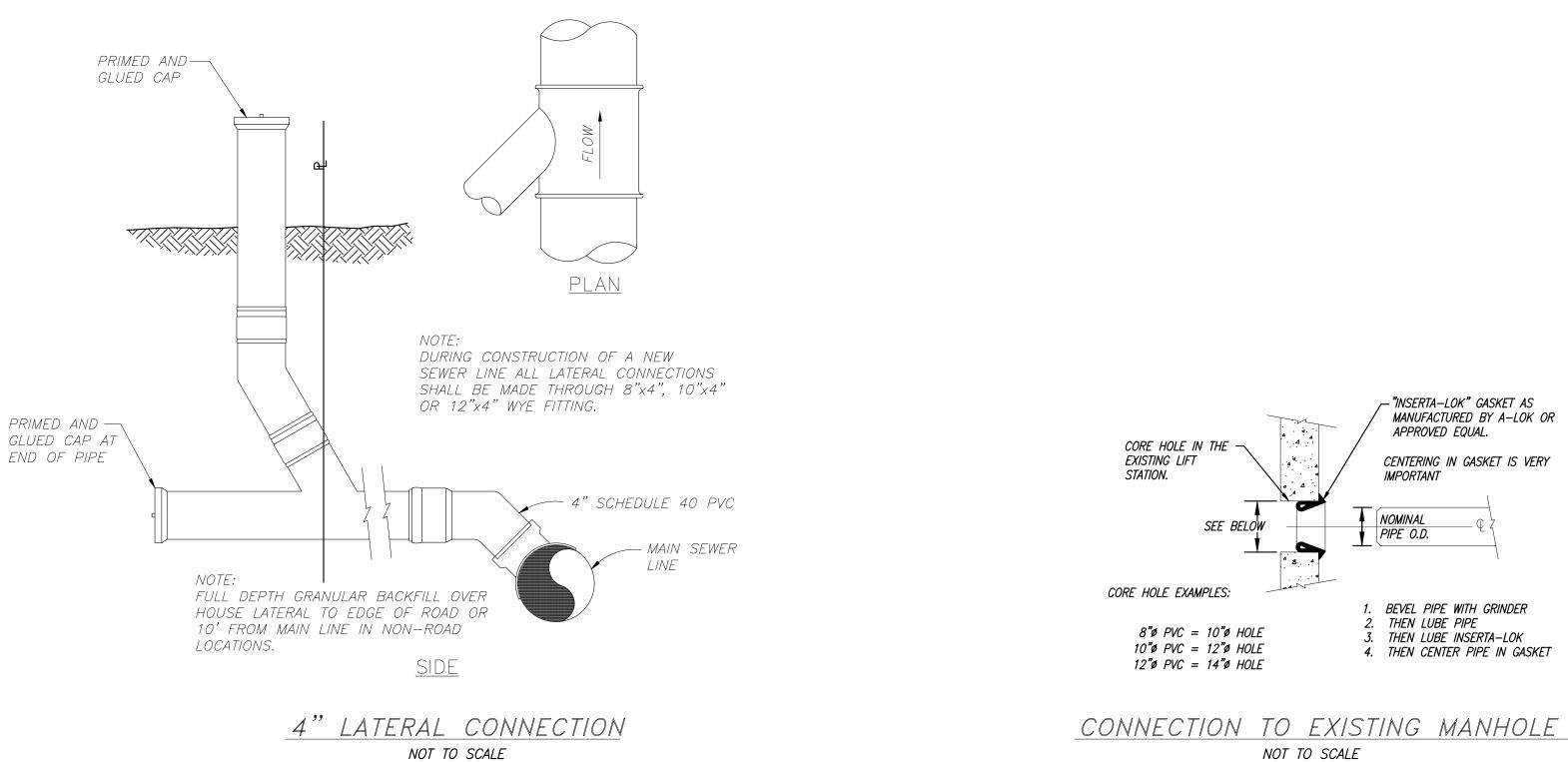


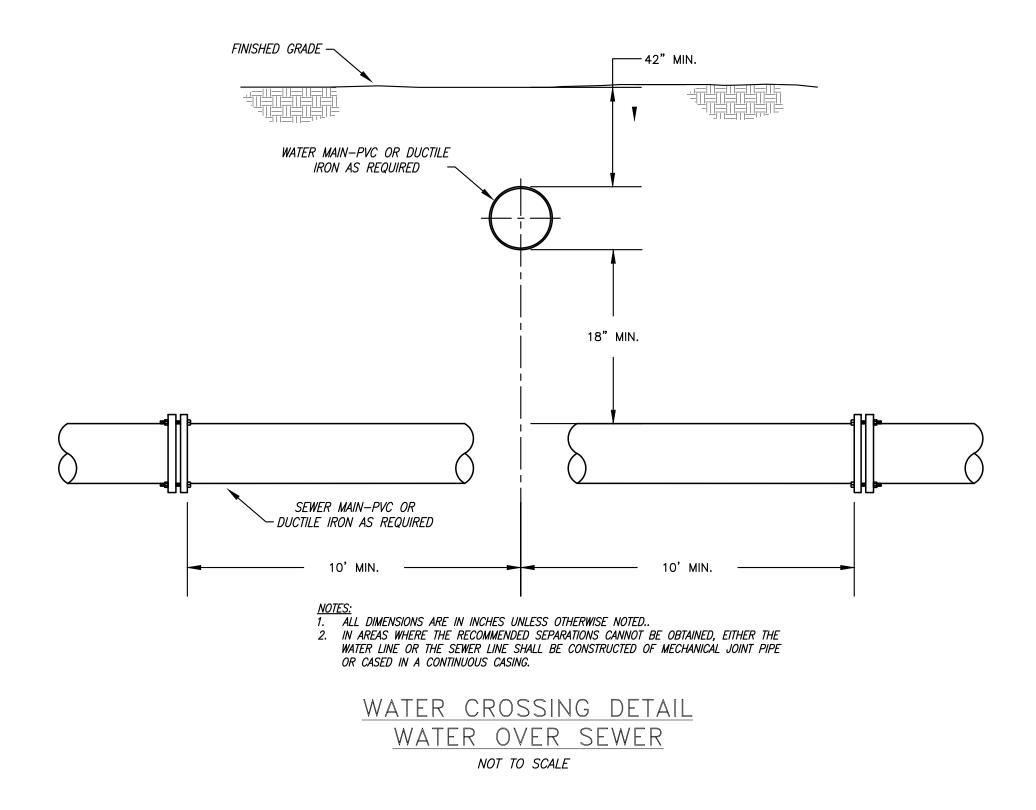


<u>NOTE:</u> ENDS OF LOCATOR WIRE SHALL BE PLACED IN A 6" DIP RISER PIPE WITH CAST IRON LIDS AT 500' MIN. SPACING AND SHALL BE GROUNDED TO A 4'x1/2" DIA. COPPER ROD AT RISERS. ALL WIRE SPLICES SHALL USE BRASS/COPPER SPLIT-BOLT CONNECTORS. RISERS AND GROUNDING RODS FOR LOCATION WIRE ON SERVICE LATERALS SHALL BE PLACED, AT A MINIMUM, AT ROW AND FINAL CLEANOUT LOCATION ON THE PROPERTY.

NOT TO SCALE

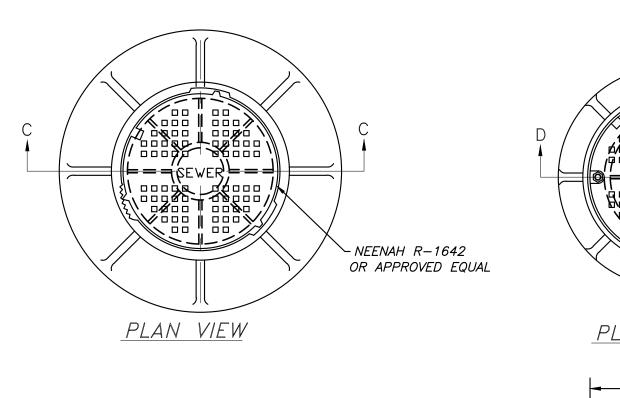


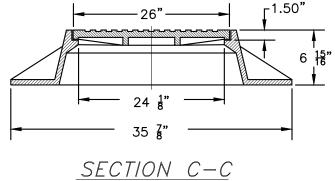




NOT TO SCALE





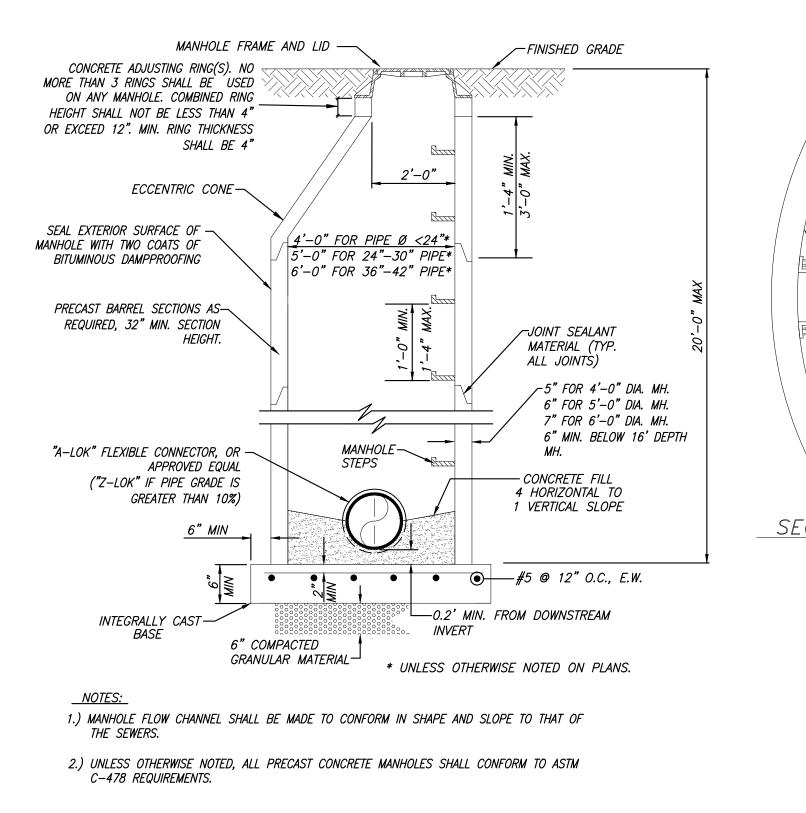


STANDARD MANHOLE

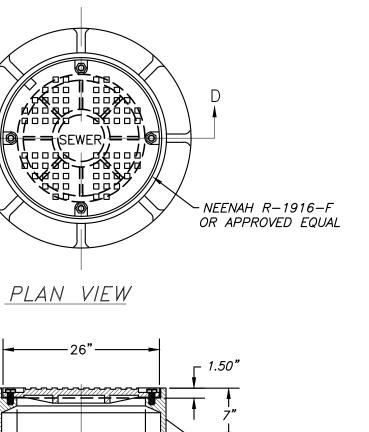
FRAME & LID

NOT TO SCALE



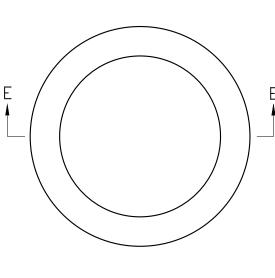


STANDARD PRECAST MANHOLE NOT TO SCALE

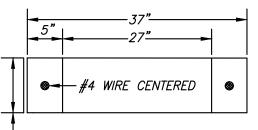


<u>SECTION D-D</u>

WATERTIGHT MANHOLE FRAME & LID (BOLT DOWN) NOT TO SCALE

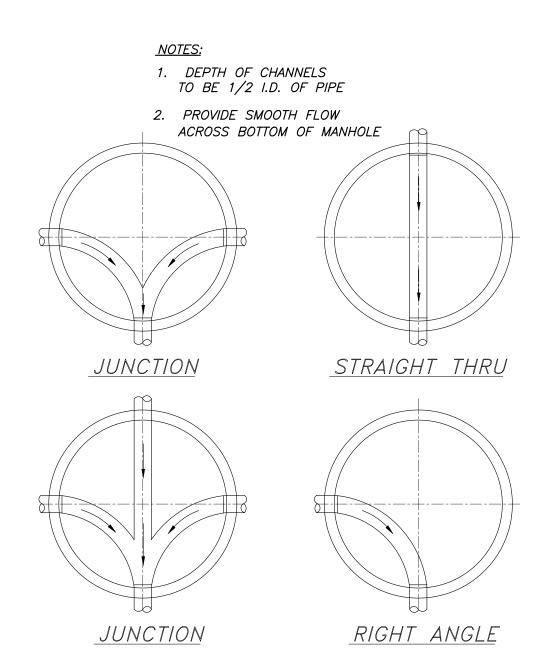


<u>PLAN VIEW</u>

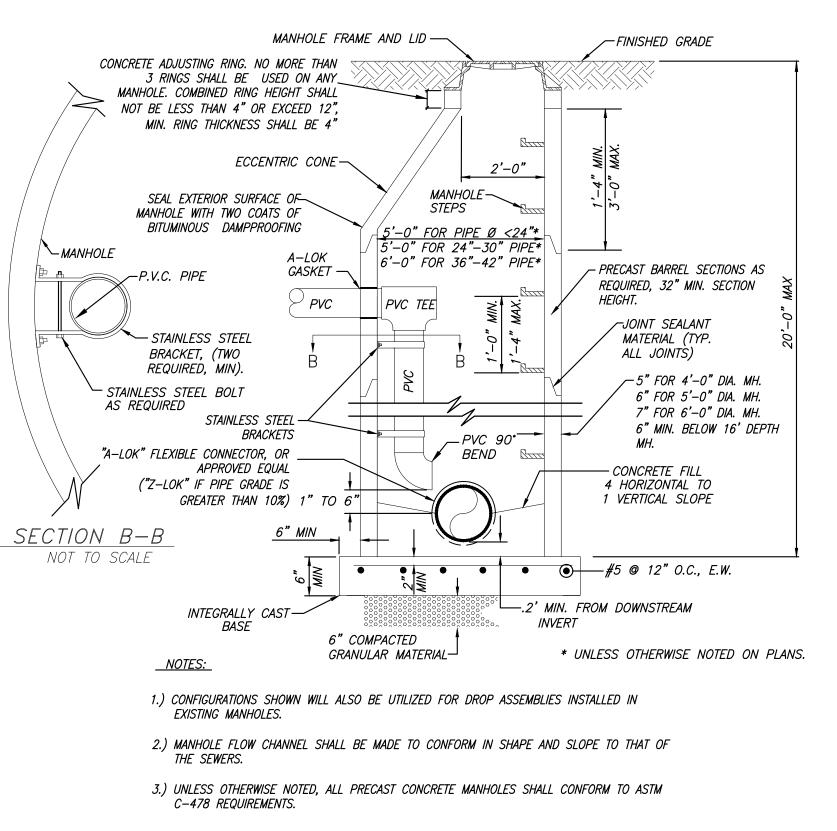


— STANDARD HEIGHTS 4", 5", 6", 7", 8", 10", 12" REINFORCEMENT: #4 WIRE, ASTM-8 CONCRETE: 4000 PSI WEIGHT: 41 LBS PER VERTICAL INCH MIN. RING THICKNESS SHALL BE 4" <u>SECTION E-E</u> GRADE RING

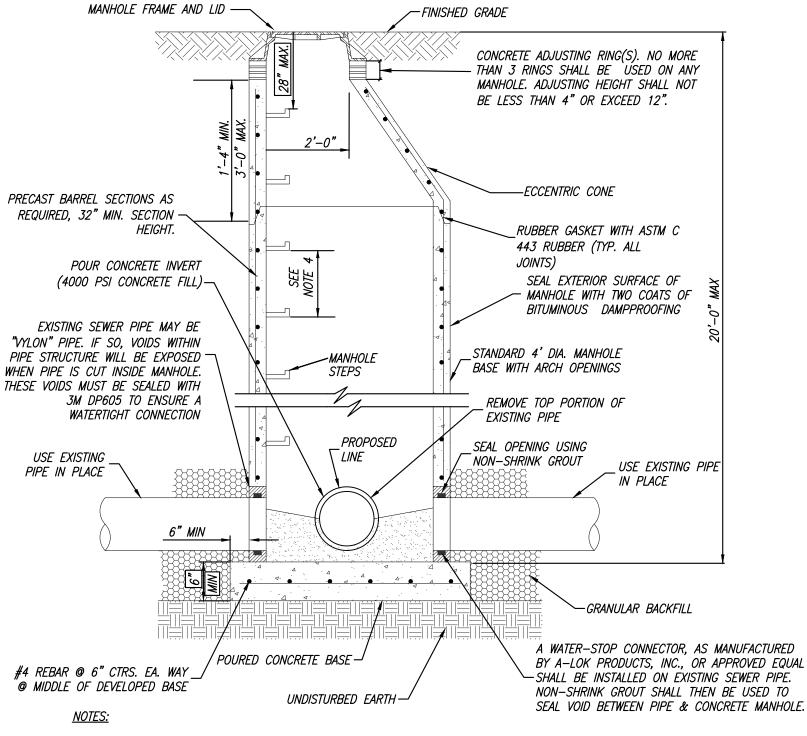
NOT TO SCALE



MANHOLE BOTTOM



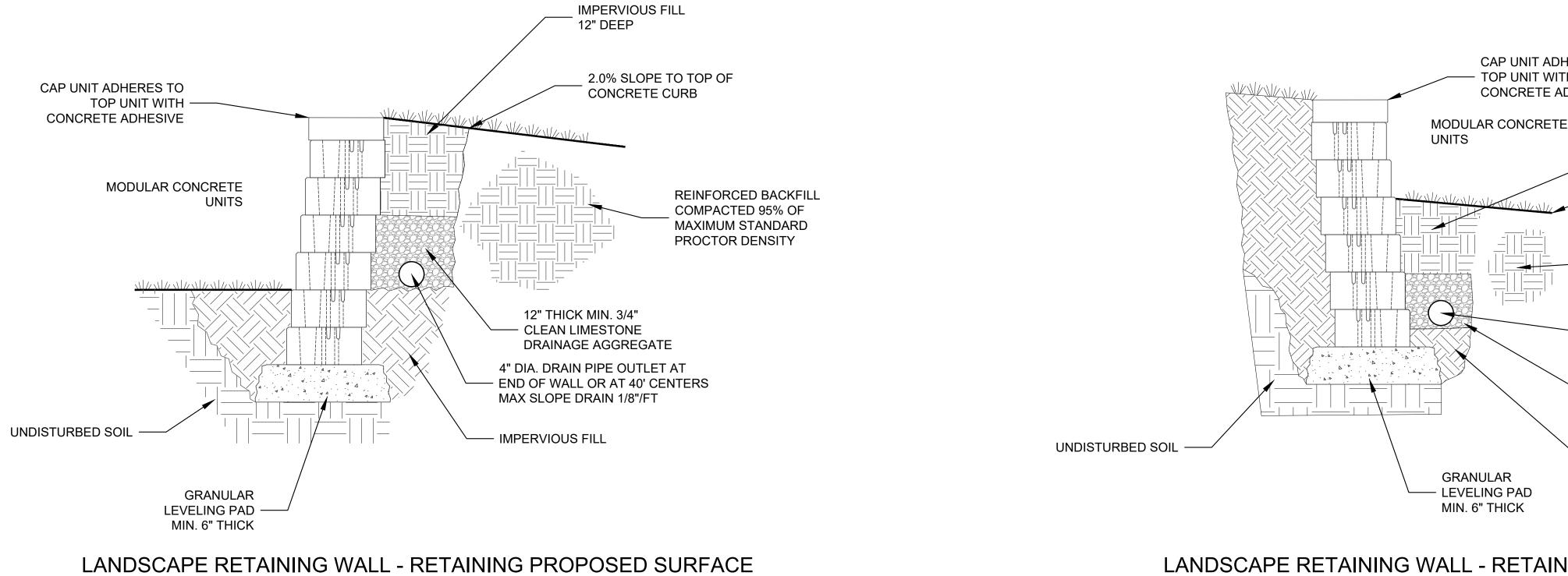
INSIDE DROP MANHOLE (GRAVITY) NOT TO SCALE



- 1. MANHOLE FLOW CHANNEL SHALL BE MADE TO CONFORM IN SHAPE AND SLOPE TO THAT OF THE SEWERS.
- 2. UNLESS OTHERWISE NOTED, ALL PRECAST CONCRETE MANHOLES SHALL CONFORM TO ASTM C-478 REQUIREMENTS.
- 3. GROUTED INVERT SHALL BE TROWELED SMOOTH.
- 4. MANHOLE STEPS SHALL BE ALIGNED SO AS TO FORM A CONTINUOUS LADDER WITH RUNGS EQUALLY SPACED VERTICALLY IN THE ASSEMBLED MANHOLE AT A MINIMUM DISTANCE OF 12 INCHES APART AND A MAXIMUM OF 16 INCHES APART.

STRADDLE MANHOLE NOT TO SCALE

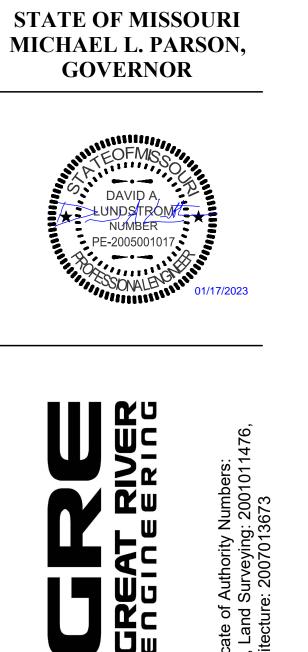




NOT TO SCALE

LANDSCAPE RETAINING WALL - RETAINING EXISTING SURFACE NOT TO SCALE

HERES TO TH DHESIVE
IMPERVIOUS FILL 12" DEEP
2.0% SLOPE TO TOP OF CONCRETE CURB
REINFORCED BACKFILL COMPACTED 95% OF MAXIMUM STANDARD PROCTOR DENSITY
4" DIA. DRAIN PIPE OUTLET AT END OF WALL OR AT 40' CENTERS MAX SLOPE DRAIN 1/8"/FT
12" THICK MIN. 3/4" CLEAN LIMESTONE DRAINAGE AGGREGATE
IMPERVIOUS FILL



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

DEPARTMENT OF NATURAL RESOURCES MISSOURI STATE PARKS

TABLE ROCK STATE PARK **REPLACE 22 ELECTRIC SITES** WITH 22 PREMIUM SITES

TABLE ROCK STATE PARK CAMPGROUND #2 5272 STATE HWY 165 BRANSON, MISSOURI 65616

PROJECT # X2216-01 SITE # 5603 ASSET # 7815603018

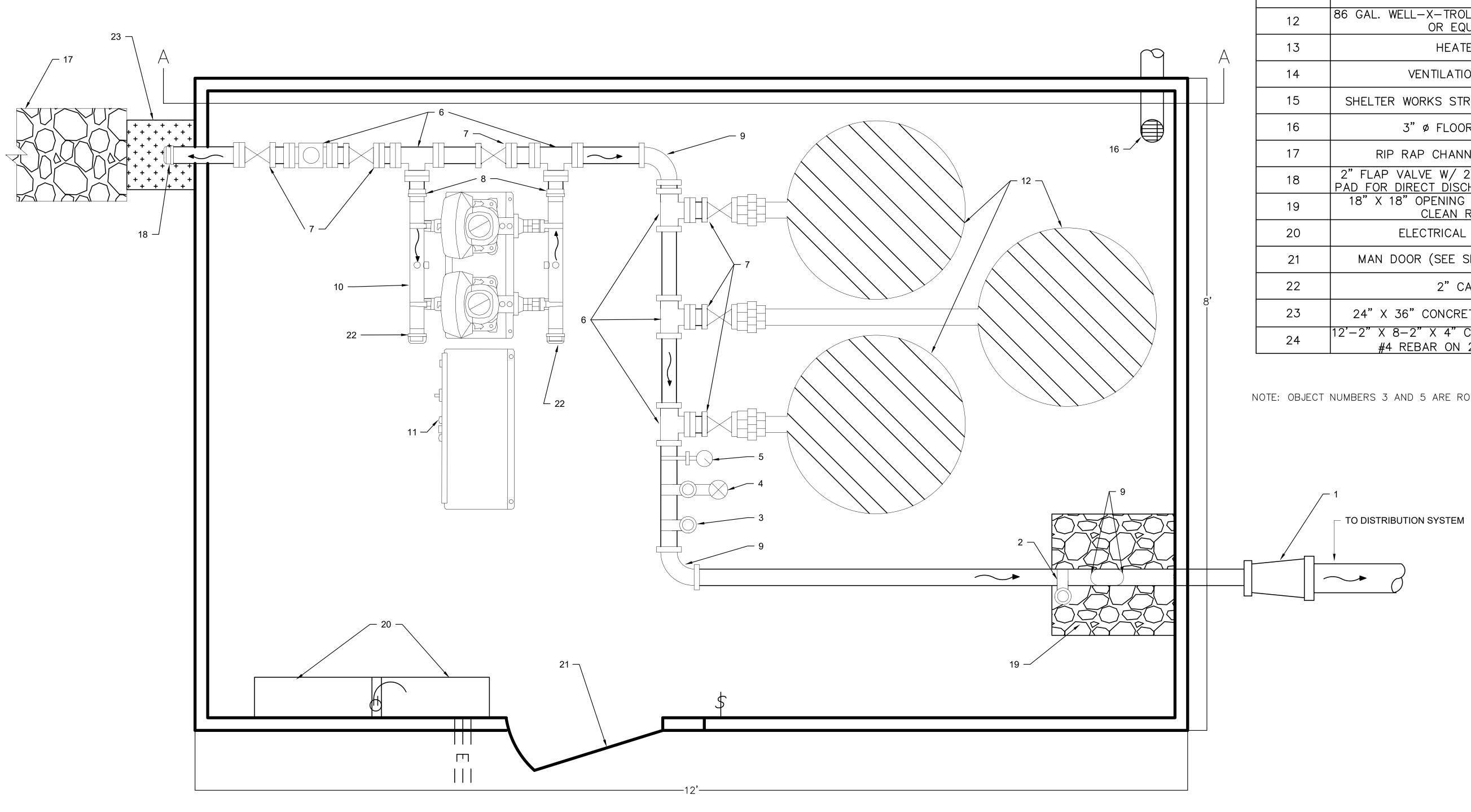
REVISION: DATE: **REVISION:** DATE: **REVISION:** DATE: ISSUE DATE: 01/17/2023

CAD DWG FILE:X2216-01_C-500 DRAWN BY: ALW CHECKED BY: DAL DESIGNED BY: <u>ALW</u>

SHEET TITLE: WALL DETAILS

SHEET NUMBER:

C-505 14 OF 18 SHEETS JANUARY 17, 2023



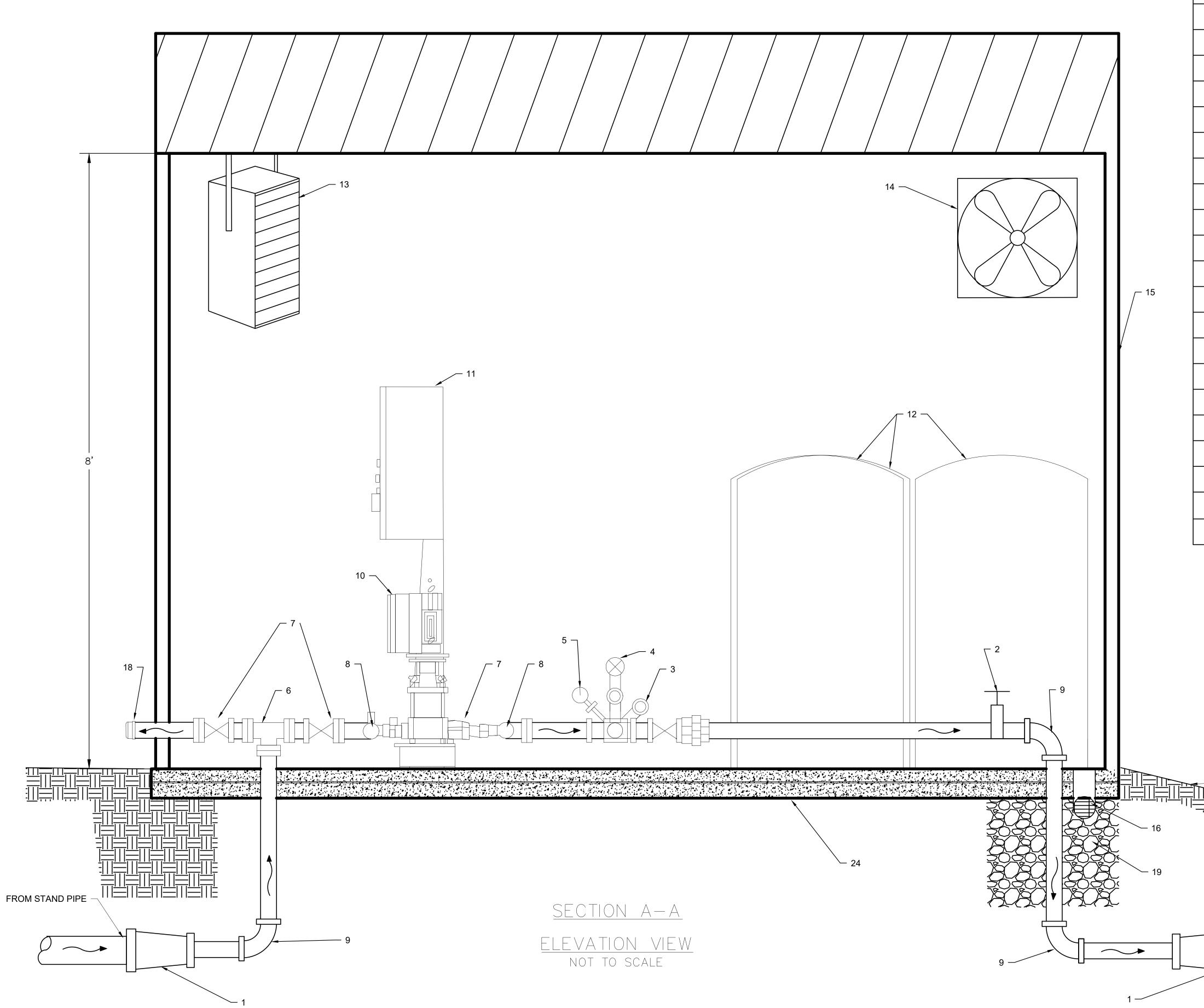
PLAN VIEW not to scale

ITEM NUMBER	DESCRIPTION	QUANTITY
1	2" TO 4" REDUCER	2
2	SAMPLE TAP, PROVIDE ³ / ₄ " BALL VALVE HOSE BIB	1
3	PRESSURE TRANSDUCER	1
4	PRESSURE RELIEF VALVE	1
5	PRESSURE GAUGE	1
6	2" X 2" X 2" TEE	6
7	2" GATE VALVE	6
8	UNION COUPLING	2
9	2"90°FITTING	5
10	GRUNDFOS BOOSTER PAQ	1
11	GRUNDFOS BOOSTER PAQ CONTROL PANEL	1
12	86 GAL. WELL-X-TROL DIAPHRAGM TANK OR EQUAL	3
13	HEATER	1
14	VENTILATION FAN	1
15	SHELTER WORKS STRUCTURE 12' X 8'	1
16	3" Ø FLOOR DRAIN	1
17	RIP RAP CHANNEL 4' X 12'	1
18	2" FLAP VALVE W/ 24" X 36" SPLASH PAD FOR DIRECT DISCHARGE FROM TANK	1
19	18" X 18" OPENING FILLED W/ 3/8" CLEAN ROCK	1
20	ELECTRICAL PANELS	1
21	MAN DOOR (SEE SPECIFICATIONS)	1
22	2" CAP	2
23	24" X 36" CONCRETE SPLASH PAD	1
24	12'-2" X 8-2" X 4" CONCRETE SLAB W/ #4 REBAR ON 24" CENTER	1

NOTE: OBJECT NUMBERS 3 AND 5 ARE ROTATED 45° CLOCKWISE FOR CLARITY

	L L. PARS	SON,
Cothing	OF MISSOLUTIONNIE M WALDEN NUMBER 2022008888 DNAL ENOTION O1/17	Pen 7/2023
		Missouri State Certificate of Authority Numbers: Engineering: 2000156885, Land Surveying: 2001011476, Landscape Architecture: 2007013673
DIVISION MANAGEN DESIGN A DEPARTM	OF FACII MENT, ND CONS IENT OF	TRUCTION
NATURAL MISSOURI TABLE RO REPLACE 2 WITH 22 PH	CK STATE P CK STATE 22 ELECTE	PARKS E PARK RIC SITES
TABLE RO CAMPGRO 5272 STATI BRANSON,	UND #2 E HWY 16	5
PROJECT # SITE # ASSET #	5603	
REVISION: DATE: REVISION: DATE: REVISION: DATE: ISSUE DATE:		-
CAD DWG FII DRAWN BY: CHECKED BY DESIGNED BY SHEET TITLE	Y: <u>CMW</u> Y: <u>CMW</u> :	
BOOSTI PLAN V	IEW	1P
M-1	• •	
15 OF 18 SHEI JANUARY 17,		

STATE OF MISSOURI



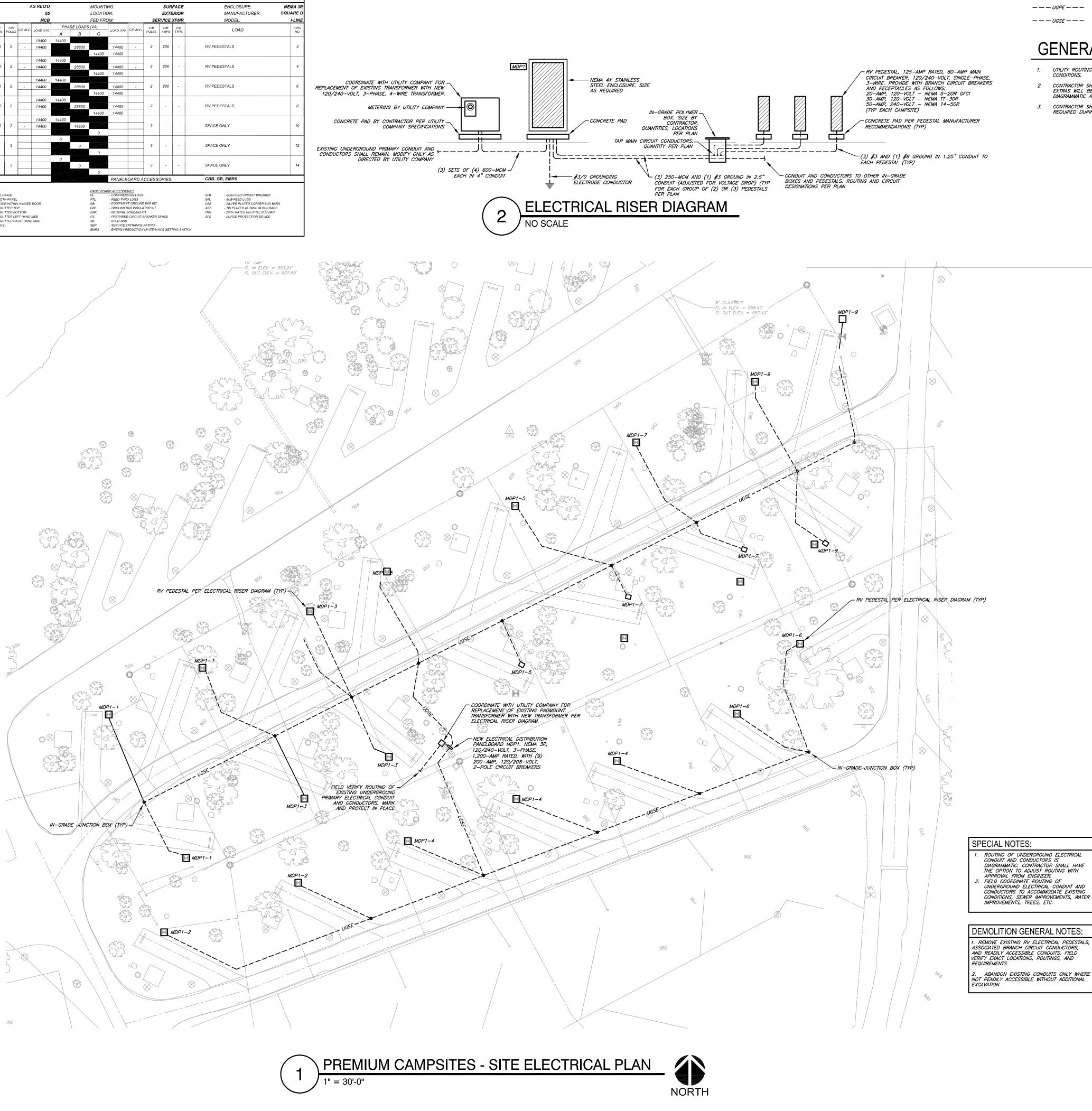
ITEM NUMBER	DESCRIPTION	QUANTITY
1	2" TO 4" REDUCER	2
2	SAMPLE TAP, PROVIDE 者 BALL VALVE HOSE BIB	1
3	PRESSURE TRANSDUCER	1
4	PRESSURE RELIEF VALVE	1
5	PRESSURE GAUGE	1
6	2" X 2" X 2" TEE	6
7	2" GATE VALVE	6
8	UNION COUPLING	2
9	2"90°FITTING	5
10	GRUNDFOS BOOSTER PAQ	1
11	GRUNDFOS BOOSTER PAQ CONTROL PANEL	1
12	86 GAL. WELL-X-TROL DIAPHRAGM TANK OR EQUAL	3
13	HEATER	1
14	VENTILATION FAN	1
15	SHELTER WORKS STRUCTURE 12' X 8'	1
16	3" Ø FLOOR DRAIN	1
17	RIP RAP CHANNEL 4' X 12'	1
18	2" FLAP VALVE W/ 24" X 36" SPLASH PAD FOR DIRECT DISCHARGE FROM TANK	1
19	18" X 18" OPENING FILLED W/ 3/8" CLEAN ROCK	1
20	ELECTRICAL PANELS	1
21	MAN DOOR (SEE SPECIFICATIONS)	1
22	2" CAP	2
23	24" X 36" CONCRETE SPLASH PAD	1
24	12'-2" X 8-2" X 4" CONCRETE SLAB W/ #4 REBAR ON 24" CENTER	1

NOTE: OBJECT NUMBERS 3 AND 5 ARE ROTATED FOR CLARITY

- PROVIDE POSITIVE DRAINAGE



PANE	LBOARD SCHE	DULE														Μ	DP'
/OLTAGE:	120/240	MOUNTING				,	AS REQ'D			MOUNTI					FACE		IEMA 3F
PHASE / WIR		KAIC AMPS (• •				65			LOCATI					RIOR		QUARE L
AMPS:	1200	MAIN BREAK					МСВ	0///	0510100	FED FR	<u>Эм:</u>			RVICE		MODEL:	I-LINE
CIRC. NO.	LOAD		C/B TYPE	C/B AMPS	C/B POLES	С/В АСС	LOAD (VA)	A	SE LOADS B	C C	LOAD (VA)	C/B ACC.	C/B POLES	C/B AMPS	C/B TYPE	LOAD	CIRC. NO.
							14400	14400									
1	RV PEDESTALS		-	200	2	-	14400		28800		14400	-	2	200	-	RV PEDESTALS	2
										14400	14400						
							14400	14400									
3	RV PEDESTALS		-	200	2	-	14400		28800		14400	-	2	200	-	RV PEDESTALS	4
										14400	14400						
5	RV PEDESTALS			200	2		14400	14400	00000		4.4400		2	200		RV PEDESTALS	6
5	RVPEDESTALS		-	200	2	-	14400		28800	11100	14400	-	2	200	-	RVPEDESTALS	0
							14400	14400		14400	14400						
7	RV PEDESTALS		-	200	2	_	14400	14400	28800		14400		2	-	-	RV PEDESTALS	8
	NY I EBEOMEO						74400		20000	14400	14400		-				
							14400	14400									
9	RV PEDESTALS		-	200	2	-	14400		14400				3	-	-	SPACE ONLY	10
										0			1				
								0									
11	SPACE ONLY		-	-	3				0				3	-	-	SPACE ONLY	12
										0							
								0									
13	SPACE ONLY		-	-	3				0				3	-	-	SPACE ONLY	14
	E ACCESSORIES: CH,FL									0	PANELE		00588			CBB, GB, EMRS	
<u>=NCLOSUR</u>	E ACCESSORIES.								_		PANELE	OARD A	CLESS	URIES.			
<u>CIRCUIT</u> 100% AC EO GFCI GFP HACR HLF HLN PFR	BREAKER ACCESSORIES: - 100% RATED C/B - AUXILLIARY CONTACTS - ELECTRICAL OPERATOR - GROUND-FAULT INTERRUPTING - MAIN BKR GROUND FAULT PROT - HARDR FAING - HANDLE LOCK-OFF - HANDLE LOCK-ON - PHASE FAULURE RELAY	ENCLOSURE ACC CH CW DWD EGT EGB EGSL EGSL EGSR FL	- CONC - COLU - HINDO - EXTE - EXTE - EXTE - EXTE	IES: XEALED H MN WIDT GED DOO NDED GU NDED GU NDED GU NDED GU H LOCK(S	TH PANEL OR WITHIN ITTER TO ITTER BO ITTER LE ITTER RIG	N HINGED P OTTOM FT HAND	SIDE			PANELBOA CL FTL GB GBI NBK PS SB SER EMRS	RD ACCESSC - COMPRES - FEED-THR - EQUIPMEN - GROUND E - NEUTRAL - PREPAREL - SPLIT BUS - SERVICE E - ENERGY R	SION LUGS U LUGS IT GROUND BAR INSULA BONDING K D CIRCUIT E) BAR KIT ATOR KIT IT BREAKER S RATING		ring switch	SFB - SUB-FEED CIRCUIT BREAKER SFL - SUB-FEED LUGS CBB - SILVER PLATED COPPER BUS BARS ABB - TIN PLATED ALUMINUM BUS BARS TRN - 200% RATED NEUTRAL BUS BAR SPD - SURGE PROTECTION DEVICE	



SITE UTILITIES SYMBOLS:

----UGPE---- UNDERGROUND PRIMARY CONDUIT AND CONDUCTORS ----UGSE---- UNDERGROUND SECONDARY CONDUIT AND CONDUCTORS

GENERAL NOTES:

- UTILITY ROUTINGS ARE DIAGRAMMATIC. ADJUST EXACT ROUTING TO ACCOMMODATE FIELD CONDITIONS. 1.
- 2. CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING HIS BID. NO EXTRAS WILL BE PAID DUE TO UNANTICIPATED EXISTING CONDITIONS. PLANS ARE DIAGRAMMATIC AND SHALL NOT BE SCALED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING TEMPORARY ELECTRICAL SERVICES REQUIRED DURING CONSTRUCTION, AND SHALL PAY ALL ASSOCIATED COSTS.

	And the properties And the properis And the properties And the p
	OFFICE OF ADMINISTRATION DIVISION OF FACILITIES MANAGEMENT, DESIGN AND CONSTRUCTION DEPARTMENT OF NATURAL RESOURCES MISSOURI STATE PARKS
	TABLE ROCK STATE PARK REPLACE 22 ELECTRIC SITES WITH 22 PREMIUM SITES TABLE ROCK STATE PARK CAMPGROUND #2 5275 STATE HWY 165 BRANSON, MISSOURI PROJECT # X-2216-01 SITE # 5603
	ASSET # 7815603018 REVISION:
30' 0' 30' SCALE: 1 INCH = 30 FEET	SHEET TITLE: SITE ELECTRICAL PLAN AND DETAILS SHEET NUMBER: E-101 17 OF 18 SHEETS JANUARY 17, 2023

STATE OF MISSOURI

MICHAEL L. PARSON,

GOVERNOR

OF MI.

ALLEN DAVIS

NUMBER

ALLEN DAVIS – ENGINEER 1/17/23 PE-2004017155

9: PE-2004017155 :

SSIONAL E

\$



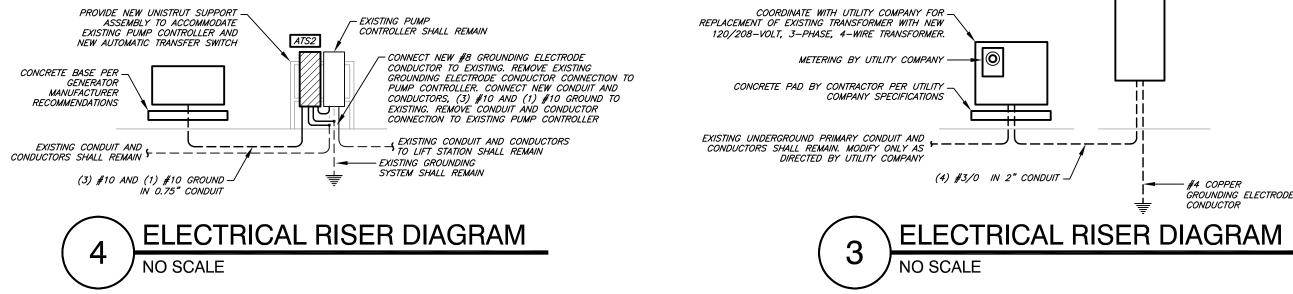


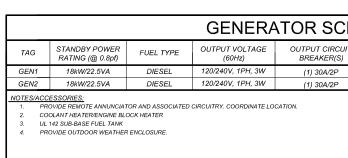
SEWAGE LIFT STATION - SITE ELECTRICAL PLAN



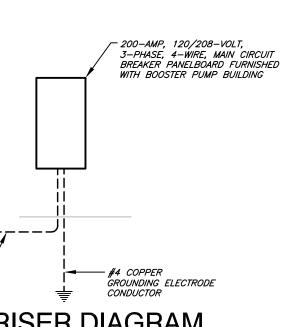








MARK ATS1 ATS2	LOAD EQUIPMENT SERVED LIFT STATION							
ATS1						NEMA ENCLOSUR	NOTES &	
	LIET STATION	VOLTAGE	AMP		POLE	NEMA ENCLOSUR	ACCESS.	
ATS2		240	30		2	1	1,2,3,4	
	LIFT STATION	240	30		2	3	1,2,3,4	
5. PROVIDE	AVE INTERLOCKED CONTROLS TO NON-AUTOMATIC TRANSFER SW TRANSFER SWITCH WITH INTERI	ITCH TO HOOK UP TEMPO	ORARY POWER DU	URING GENERATOR	MAINTENANCE.			
	GENI	ERATOR	SCHE	DULE (ALTER	NATE #2)		
R						NATE #2)	NOTES AND	
		TAGE OUTPUT					NOTES AND ACCESSORIES	
) FUE	UTYPE OUTPUT VOL	TAGE OUTPUT BREA	T CIRCUIT	ALTERN	ATOR	NFPA 110		



SKVA LISTED IS WITH 30% VOLTAGE DIP.
SKVALUSTED IS WITH 30% VOLTAGE DIP.
INDICATED SKVA.

REMOTE ANNUNCIATOR LOCATION SHALL BE FIELD COORDINATED OF VERIFIED WITH OWNER'S AUTHORIZED REPRESENTATIVE, PRIOR TO INSTALLATION.



- APPROXIMATE LOCATION OF NEW BOOSTER PUMP STATION AND BUILDING PER CIVIL DRAWINGS. PROVIDE POWER VIA NEW PANELBOARD FURNISHED WITH PUMP BUILDING. FIELD COORDINATE EXACT REQUIREMENTS. REFER TO 3/E-102 FOR ADDITIONAL INFORMATION

