

**UTILITY NOTES:**

**1. GENERAL:**

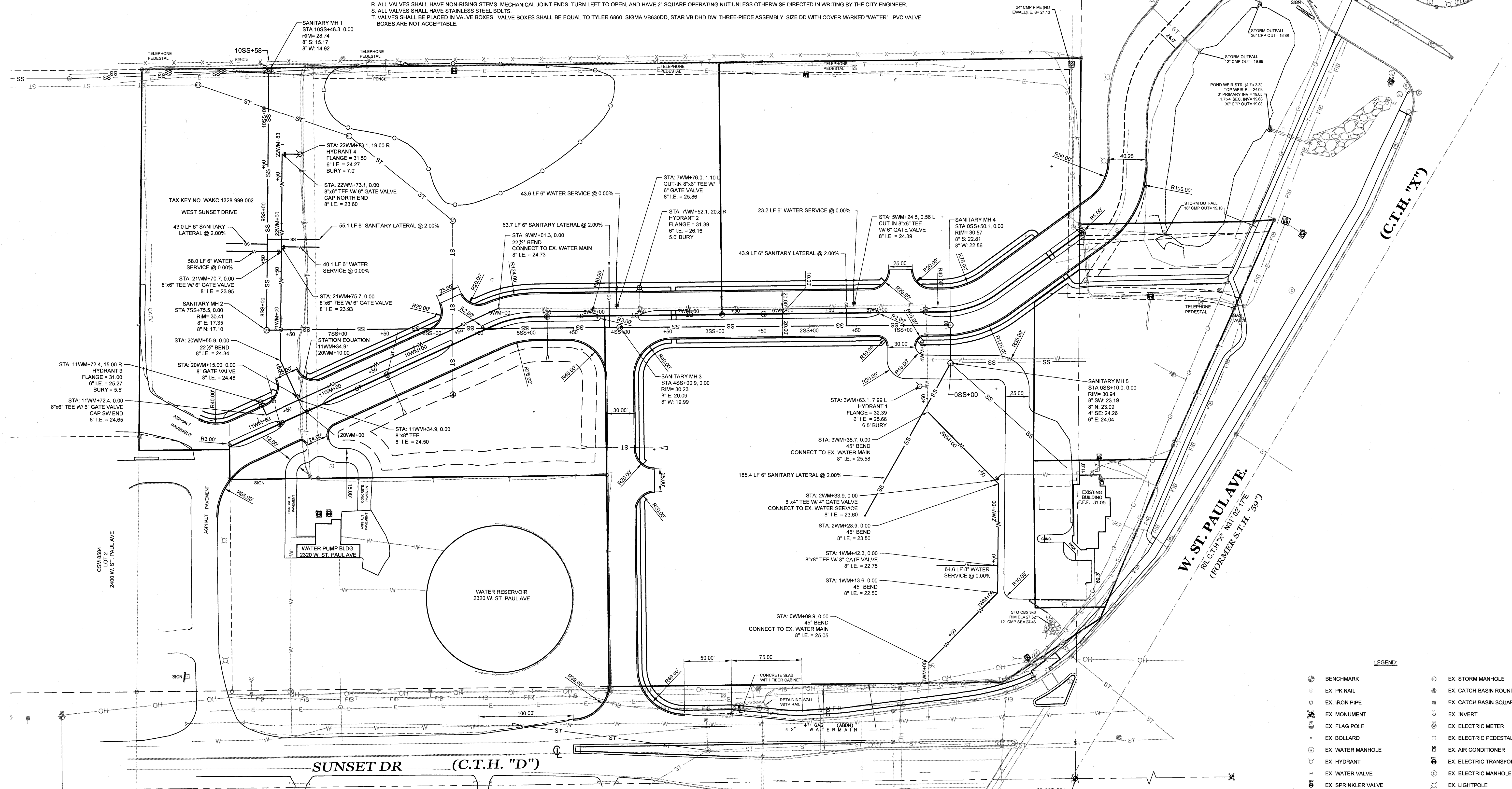
- A. ALL WORK SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN, SIXTH EDITION (STANDARD SPECS), THE WISCONSIN ADMINISTRATIVE CODE, THE REQUIREMENTS OF THE CITY OF WAUKESHA.
- B. THE CONTRACTOR SHALL CONTACT DIGGERS HOTLINE A MINIMUM OF 3 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
- C. ALL BEDDING AND COVER MATERIAL SHALL BE CRUSHED STONE CHIPS PER THE STANDARD SPECS, SECTION 8.43.8.

**2. SANITARY LATERAL:**

- A. THE SANITARY SEWER PIPE SHALL BE PVC ASTM D-3034 SDR 35 WITH INTEGRAL BELL TYPE FLEXIBLE ELASTOMERIC JOINTS CONFORMING TO ASTM D3212.
- B. SANITARY MANHOLES SHALL BE 48" DIAMETER PRECAST CONCRETE PER FILE NO. 12 OF SWS. MANHOLE CASTINGS SHALL BE NEMA H-1861.
- C. ALL SANITARY LATERALS ARE TO BE BEDDED WITH STONE CHIPS PER SWS 8.43.2(A) AND BACKFILLED WITH MECHANICALLY COMPACTED GRANULAR BACKFILL PER SWS 8.43.4 IN PAVED AREAS/SHOULDERS AND WITHIN 5 FEET OF THE PAVED AREAS. SPOIL BACKFILL WILL BE ALLOWED IN NON-PAVED AND NON-SHOULDERED AREAS.

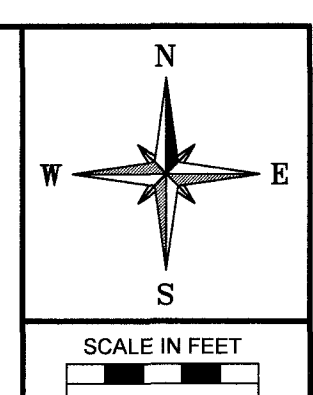
**3. WATER MAIN:**

- A. 8" WATER LATERAL SHALL BE AWWA C-900 CLASS 150 PVC.
- B. ALL WATER MAIN AND SERVICES ARE TO BE BEDDED AND COVERED WITH STONE CHIPS PER SWS 8.43.2(A) AND BACKFILLED WITH MECHANICALLY COMPACTED GRANULAR BACKFILL PER SWS 8.43.4 IN PAVED AREAS/SHOULDERS AND WITHIN 5 FEET OF THE PAVED/SHOULDER AREAS. SPOIL BACKFILL WILL BE ALLOWED IN NON-PAVED AND NON-SHOULDERED AREAS.
- C. CHLORINATION TABLETS SHALL BE GLUED TO THE INSIDE OF THE PIPE PER SWS 4.3.12. CHLORINATION POWDERS OR OTHER LOOSE MATERIAL ARE NOT ALLOWED.
- D. ALL WATER MAINS WILL HAVE BUTTRESSES INSTALLED AT ALL BENDS, THRUST POINTS OR ANY OTHER APPROPRIATE PLACE. THE BUTTRESS SHALL BE POURED CONCRETE AND INSTALLED PER THE REQUIREMENTS IN THE STANDARD SPECIFICATIONS (GREEN BOOK FILE NO. 44). HARDWOOD AND/OR CONCRETE BLOCKS ENCASED IN CONCRETE IS ALSO ACCEPTABLE.
- E. ANCHOR TEES OR ELBOWS MAY BE MECHANICAL JOINT FITTINGS. MECHANICAL JOINTS SHALL BE MADE WITH COR-BLUE NUTS AND BOLTS WHICH CONFORM TO C-111, AWWA SPECIFICATIONS. ALL NON-STAINLESS STEEL ANCHOR FITTINGS OR RODS SHALL BE SPRAYED OR COATED WITH A RUBBERIZED OR TAR BASED SEALANT TO PREVENT CORROSION.
- F. ALL HYDRANTS SHALL BE US PIPE METROPOLITAN M-94, WATEROUS W8-67 PACER, OR MUELLER SUPER CENTURION 250.
- G. HYDRANTS SHALL HAVE A MECHANICAL JOINT CONNECTION, TURN LEFT TO OPEN.
- H. HYDRANTS SHALL BE PAINTED RED AND MARKED WITH RED AND WHITE SPRING LOADED FIBERGLASS HYDRANT MARKERS. HYDRANTS SHALL BE BREAK-FLANGE TYPE. THE BREAK-FLANGE MUST BE PLACED AT FINISH GRADE.
- I. HYDRANTS SHALL HAVE A 5-1/4" MAIN VALVE OPENING, SHALL HAVE A NATIONAL STANDARD TWO 2-1/2" HOSE NOZZLES AND A 4-1/2" PUMPER NOZZLE.
- J. HYDRANTS SHALL BE ATTACHED TO A HYDRANT TEE BY MEANS OF A CLOW F1217 ANCHORING TEE OR EQUAL. ALL HYDRANTS SHALL INCLUDE A 6" SHUT OFF VALVE. VALVES SHALL MEET THE VALVE SPECIFICATION LISTED ABOVE.
- K. ALL HYDRANTS SHALL BE THRU-ROD BLOCKED. A POURED CONCRETE BUTTRESS SHALL BE INSTALLED ENSURING THAT NO CONCRETE PLUGS THE WEEP HOLE. PLEASE REFER TO THE STANDARD SPECIFICATIONS FILE NO. 38 (GREEN BOOK).
- L. HYDRANT ASSEMBLIES SHALL BE WRAPPED IN POLYETHYLENE FILM.
- M. ALL VALVES SHALL BE RESILIENT SEAT GATE VALVES (AWWA C-509), M&H VALVE COMPANY 4067-01, KENNEDY 4571, CLOW F-6100, MUELLER 2360 OR WATEROUS 2500. ALL UNDERGROUND TRIM (NUTS, BOLTS, ETC.) FOR VALVES SHALL BE STAINLESS STEEL.
- N. A VALVE BOX ADAPTOR SHALL BE USED TO PREVENT SETTLING OR SHIFTING OF VALVE BOXES.
- O. ALL VALVES SHALL HAVE NON-RISING STEMS, MECHANICAL JOINT ENDS, TURN LEFT TO OPEN, AND HAVE 2" SQUARE OPERATING NUT UNLESS OTHERWISE DIRECTED IN WRITING BY THE CITY ENGINEER.
- P. ALL VALVES SHALL HAVE STAINLESS STEEL BOLTS.
- Q. VALVES SHALL BE PLACED IN VALVE BOXES. VALVE BOXES SHALL BE EQUAL TO TYLER 9860, SIGMA V830DD, STAR V8 DHD DW, THREE-PIECE ASSEMBLY, SIZE DD WITH COVER MARKED "WATER". PVC VALVE BOXES ARE NOT ACCEPTABLE.



**LEGEND:**

	BENCHMARK		EX. STORM MANHOLE
	EX. PK NAIL		EX. CATCH BASIN ROUND
	EX. IRON PIPE		EX. CATCH BASIN SQUARE
	EX. MONUMENT		EX. INVERT
	EX. FLAG POLE		EX. ELECTRIC METER
	EX. BOLLARD		EX. ELECTRIC PEDESTAL
	EX. WATER MANHOLE		EX. AIR CONDITIONER
	EX. HYDRANT		EX. ELECTRIC TRANSFORMER
	EX. WATER VALVE		EX. ELECTRIC MANHOLE
	EX. SPRINKLER VALVE		EX. LIGHT POLE
	PROP. SAW CUT		EX. POWER POLE
	EX. RETAINING WALL		EX. PULL BOX
	EX. UNDERGROUND WATER		EX. GUY WIRE
	EX. STORM SEWER		EX. TELEPHONE MANHOLE
	EX. SANITARY LINE		EX. TELEPHONE PEDESTAL
	EX. UNDERGROUND GAS		EX. UTILITY MANHOLE
	EX. OVERHEAD WIRE		EX. GAS METER
	EX. UNDERGROUND ELECTRIC		EX. GAS VALVE
	EX. FIBER OPTIC CABLE		EX. CLEAN OUT
	EX. UNDERGROUND TELEPHONE		EX. SANITARY MANHOLE
	EX. CABLE TV UNDERGROUND		EX. SEPTIC VENT
	EX. CONTAMINATED AREA		



**RE: VJS CONSTRUCTION SERVICES, INC.**  
 DRAWN BY: A.C.L. | CHECKED BY: P.J.J. | JOB NUMBER: 19-9043 | DATE: JANUARY 17, 2020  
 FILE NUMBER: XXXXXXXXXX | BOOK NUMBER: WAUK-191201 - PAGE NUMBER: 1-6  
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 PHONE #: (262) 542-5797 - EMAIL: SURVEY@JAHNKEANDJAHNKE.COM  
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**JAHNKE & JAHNKE ASSOCIATES, L.L.C.**  
 ENGINEERS-PLANNERS-SURVEYORS  
 ENGINEERING SOLUTIONS SINCE 1964

**SITE & UTILITY PLAN**  
 ADDRESS: 2300 WEST ST. PAUL AVENUE  
 PART OF THE SE 1/4 OF SECTION 8, T6N, R19E  
 & PART OF THE SW 1/4 OF SECTION 9, T6N, R19E  
 CITY OF WAUKESHA, WAUKESHA COUNTY, WISCONSIN.

**REVISIONS**

NO.	DESCRIPTION

SHEET: **04** OF **07**