

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4	DIST 8 DEEP WELLS 2023-1	ST. CLAIR/MADISON	11	1
* - VARIOUS		ILLINOIS	CONTRACT NO. 76P99	

D-98-042-22

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HIGHWAY STANDARDS

- 000001-08
- 001006
- 701400-11
- 701401-13
- 701428-01
- 701601-09
- 701901-08

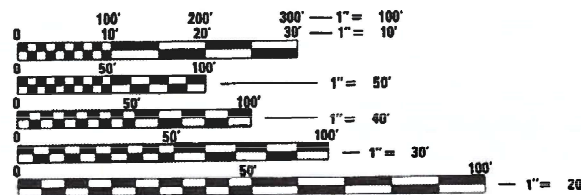
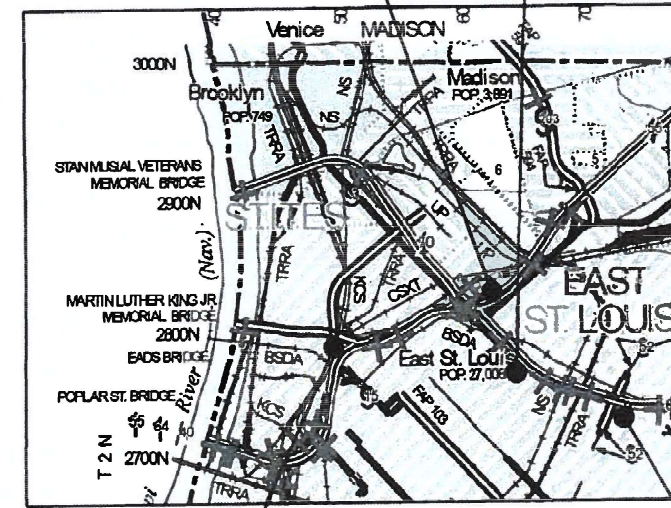
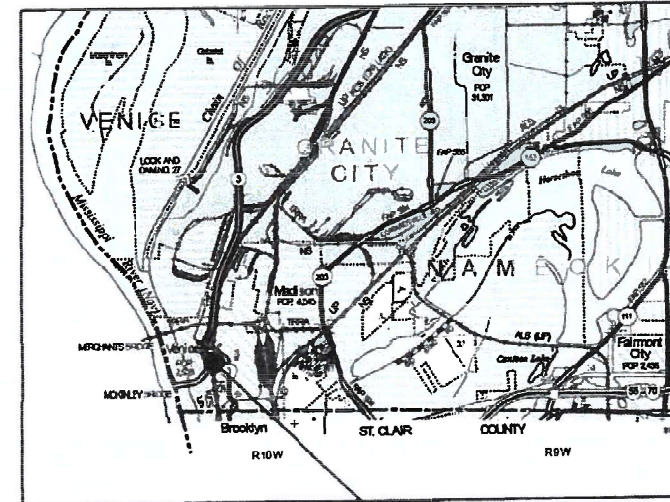
PROPOSED
HIGHWAY PLANS

VARIOUS ROUTES
SECTION DIST 8 DEEP WELLS 2023-1
WELL TREATMENT
ST. CLAIR & MADISON COUNTIES

C-98-072-22



PLANS PREPARED BY:
KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors
616 North 24th Street, Quincy, IL Ph (217)223-3670 - Fax (217)223-3603
4510 Park Gravel Road, Hannibal, MO Ph (573)221-0020 - Fax (573)221-0012
610 N. 4th Street, Suite 100, Burlington, IA Ph (319)753-1636 - Fax (319)752-3605
49 North Prairie Street, Galesburg, IL Ph (309)341-3781
604 Liberty Street, Suite 125, Peoria, IA Ph (317)912-7402
307 East Ash Street, Columbia, MO Ph (573)525-5288
2150 West Main Street, Carbondale, IL Ph (618)331-4050
Internet Address: www.klingner.com
STATE OF ILLINOIS DESIGN FIRM # 1842738



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER CHERYL KEPLAR 618-346-3123
PROJECT MANAGER PHILLIP SAWYER 618-346-3275

CONTRACT NO. 76P99



AARON M. SCHAFER
REGISTERED PROFESSIONAL ENGINEER
STATE OF ILLINOIS NO. 062-065354
LICENSE EXPIRES NOVEMBER 30, 2023

9/30/2022 DATE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SUBMITTED *Oct 13 2022*
KL H B
REGIONAL ENGINEER
December 9, 2022
SA E A E K
ENGINEER OF DESIGN AND ENVIRONMENT
December 9, 2022
Steph M...
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

GENERAL NOTES

1. WHERE SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THE LOCATION.
2. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE TO BE GIVEN TO UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. (1-800-892-0123 OR 811) OR FOR NON-MEMBERS THE UTILITY COMPANY DIRECTLY.
3. ALL WELLS REQUIRE SEALING OF MISCELLANEOUS OPENINGS IN THE WELL HEAD TO PREVENT LEAKAGE DURING TREATMENT OPERATIONS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN COST OF THE SPECIFIED TREATMENT METHODS.
4. THE DEPARTMENT RESERVES THE RIGHT TO NOTIFY THE CONTRACTOR TO CHANGE THE SEQUENCE OF WELL CLEANING IF NEEDED TO ENSURE PROPER DEWATERING NEEDS FOR THE DEPARTMENT. THE CONTRACTOR SHALL ALLOW 24 HOURS BETWEEN WELL TREATMENTS. THE CONTRACTOR SHALL INSTALL THE TEMPORARY DISCHARGE PIPES BACK INTO THE WELL DISCHARGE PIPES. ALL DISCHARGE WATER SHALL BE DISCHARGED INTO THE WELL FORCE MAINS.
5. THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.

FUNCTIONAL CLASSIFICATION: URBAN MINOR ARTERIAL

LOCATION 1	LOCATION 2
NB/SB: 2020 ADT = 6500	2021 ADT = 7600
S.U.=13.0% M.U.=7.9%	S.U.=8.8% M.U.=5.3%

LOCATION 3	LOCATION 4
WB RAMP: 2020 ADT = 30000	NB/SB: 2020 ADT = 7400
S.U.=2.2% M.U.=7.3%	S.U.=4.1% M.U.=2.9%
EB RAMP: 2020 ADT = 30000	
S.U.=2.2% M.U.=7.3%	

COMMITMENTS
NONE

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USER NAME = ams	DESIGNED AMS	REVISED -
	DRAWN AMS	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED EBB	REVISED -
PLOT DATE = 7/13/2022	DATE 7/11/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, COMMITMENTS AND ADT

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	DIST 8 DEEP WELLS 2023-1	ST. CLAIR/MADISON	11	2
* VARIOUS			CONTRACT NO. 76P99	
		ILLINOIS	FED. AID PROJECT	

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CODE NO.	ITEM	UNIT	100% STATE TOTAL QUANTITY	CONSTRUCTION CODE				
				LOCATION 1	LOCATION 2	LOCATION 3	LOCATION 4	LOCATION 5
				TRI-LEVEL	VENICE	15TH STREET	25TH STREET	MISSOURI AVENUE
				ROADWAY	ROADWAY	ROADWAY	ROADWAY	ROADWAY
				0044	0044	0044	0044	0044
				URBAN	URBAN	URBAN	URBAN	URBAN
67100100	MOBILIZATION	L SUM	1	0.20	0.20	0.20	0.20	0.20
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	0.5		0.5		
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1		0.5		0.5	
X0300358	ADDITIONAL TREATMENT NO. 1	EACH	10	2	4	2	2	
X0300359	ADDITIONAL TREATMENT NO. 2	EACH	10	2	4	2	2	
X0325850	SONAR-JET TREATMENT	EACH	2	1	1			
X0943700	WELL CHEMICAL TREATMENT	EACH	8	1	3	2	2	
X1200211	DEEP WELL VIDEO INSPECTION	L SUM	1					1

REV. - MS



USER NAME = ams	DESIGNED AMS	REVISED -
	DRAWN AMS	REVISED -
P LOT SCALE = 100.0000' / in.	CHECKED EBB	REVISED -
P LOT DATE = 9/30/2022	DATE 7/11/2022	REVISED -

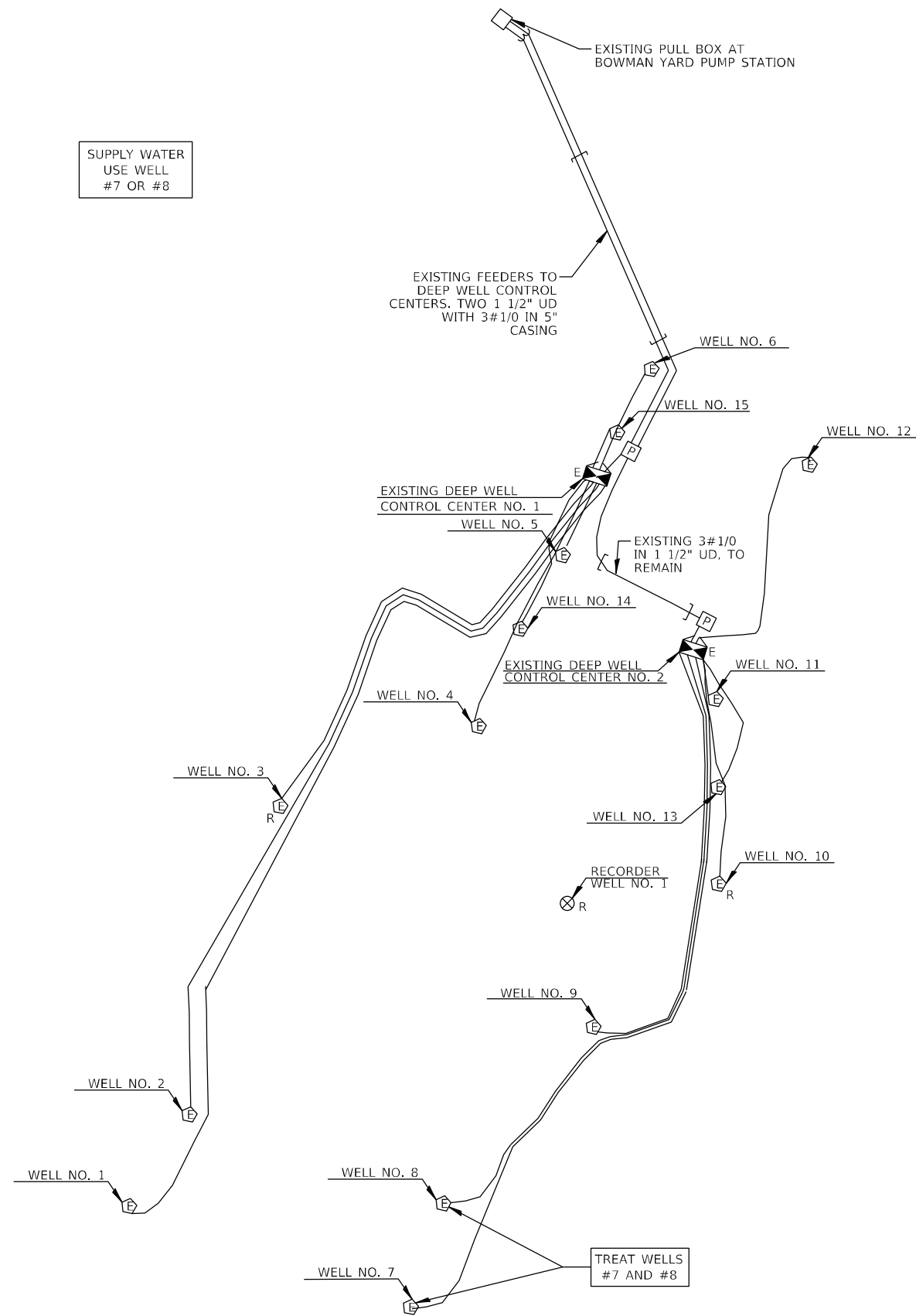
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	DIST 8 DEEP WELLS 2023-1	ST. CLAIR/MADISON	11	3
* VARIOUS			CONTRACT NO. 76P99	
ILLINOIS		FED. AID PROJECT		

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LOCATION	ADDITIONAL TREATMENT NO. 1	ADDITIONAL TREATMENT NO. 2	WELL CHEMICAL TREATMENT	SONAR JET TREATMENT
WELL #7	X	X	X	
WELL #8	X	X		X



KLINGNER & ASSOCIATES, P.C.
 Engineers • Architects • Surveyors
 616 N. 24TH ST. QUINCY, ILLINOIS 62301 217.223.3670
 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = ams	DESIGNED AMS	REVISED -
	DRAWN AMS	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED EBB	REVISED -
PLOT DATE = 9/30/2022	DATE 7/11/2022	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

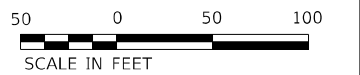
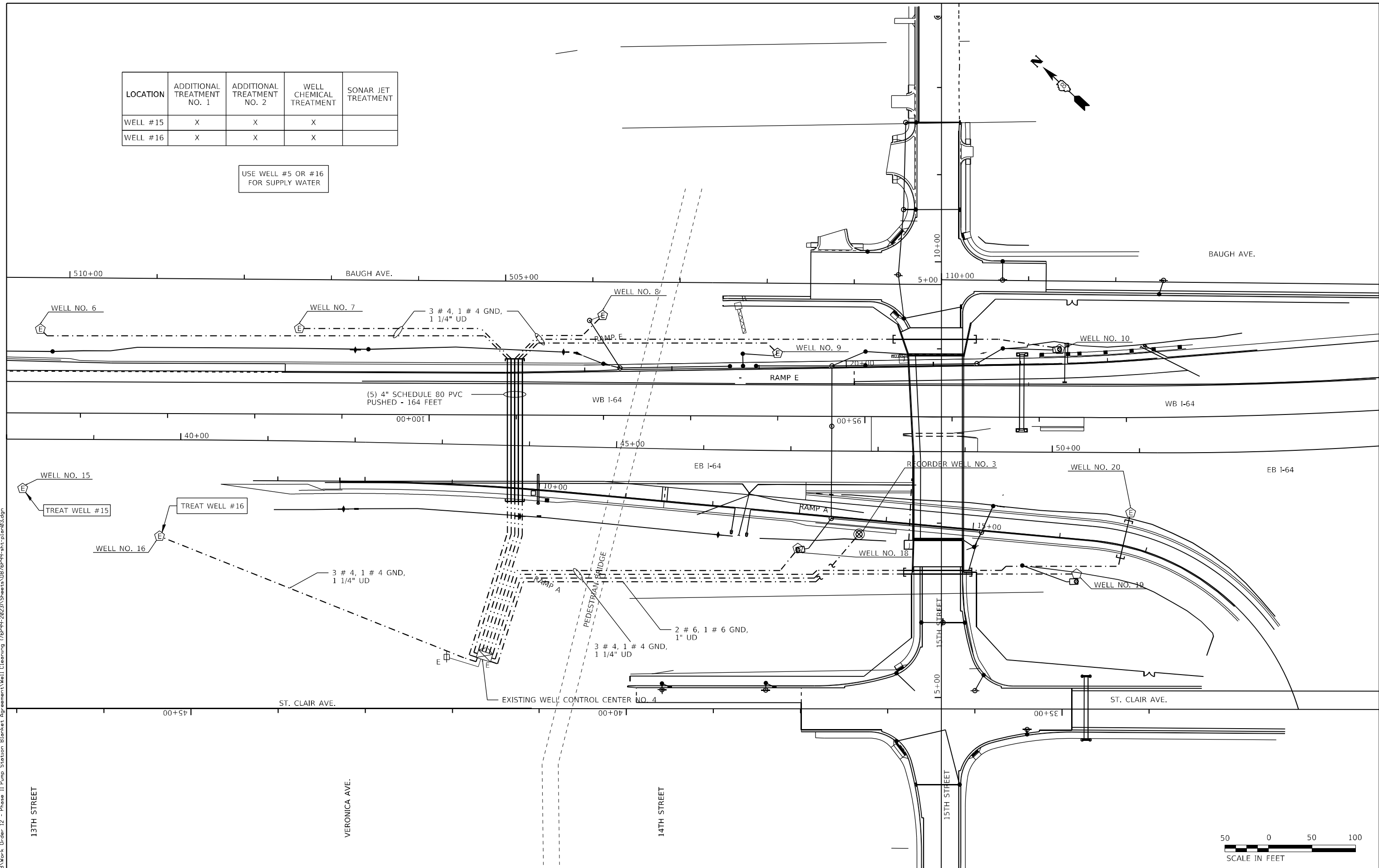
LOCATION NO. 1: SITE PLAN
 TRI-LEVEL WELLS

SCALE: 1" = 20' SHEET 1 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	DIST 8 DEEP WELLS 2023-1	ST. CLAIR/MADISON	11	4
* VARIOUS			CONTRACT NO. 76P99	
ILLINOIS FED. AID PROJECT				

LOCATION	ADDITIONAL TREATMENT NO. 1	ADDITIONAL TREATMENT NO. 2	WELL CHEMICAL TREATMENT	SONAR JET TREATMENT
WELL #15	X	X	X	
WELL #16	X	X	X	

USE WELL #5 OR #16 FOR SUPPLY WATER



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 Engineers • Architects • Surveyors
 616 N. 24TH ST. QUINCY, ILLINOIS 62301 217.223.3670
 STATE OF ILLINOIS DESIGN FIRM NO. 164-2738

USER NAME = ams	DESIGNED AMS	REVISED -
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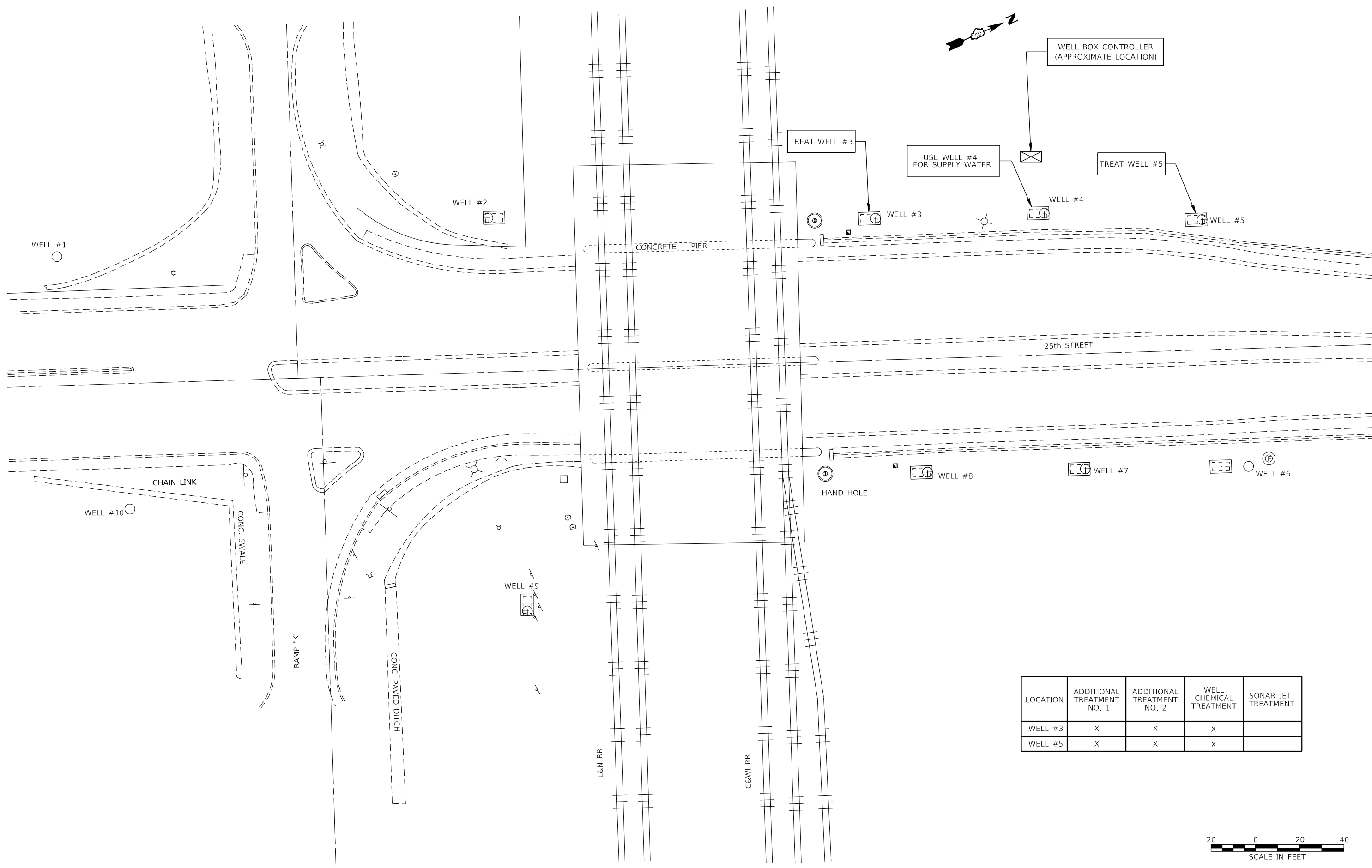
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION NO. 3: SITE PLAN
 15TH STREET WELLS

SCALE: 1" = 50' SHEET 3 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	DIST 8 DEEP WELLS 2023-1	ST. CLAIR/MADISON	11	6
* VARIOUS	CONTRACT NO. 76P99			
ILLINOIS FED. AID PROJECT				

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LOCATION	ADDITIONAL TREATMENT NO. 1	ADDITIONAL TREATMENT NO. 2	WELL CHEMICAL TREATMENT	SONAR JET TREATMENT
WELL #3	X	X	X	
WELL #5	X	X	X	

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 STATE OF ILLINOIS DESIGN FIRM NO. 164-2738

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PLOT SCALE = 100,0000' / in.	CHECKED EBB	REVISED -
PLOT DATE = 9/30/2022	DATE 7/11/2022	REVISED -

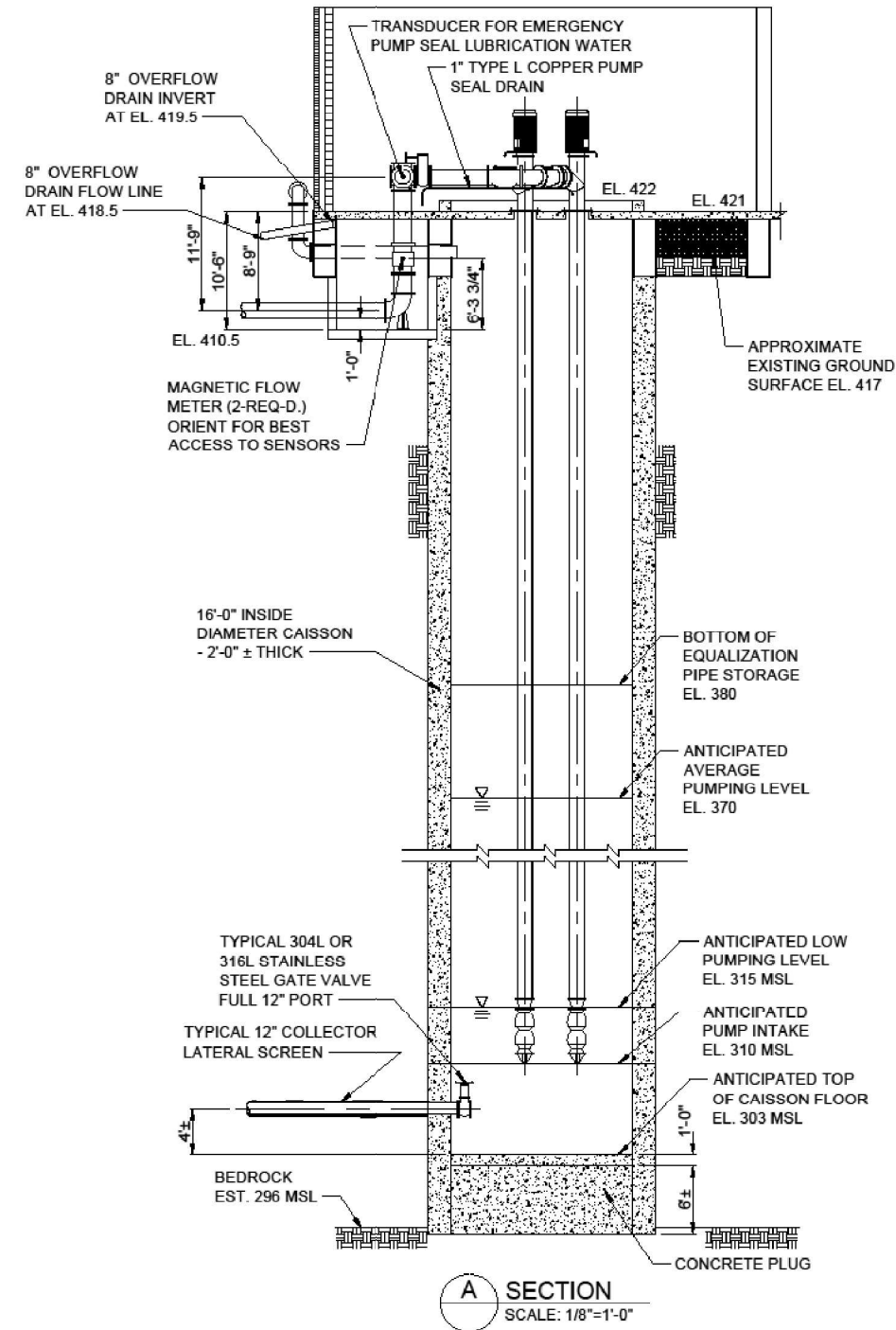
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION NO. 4: SITE PLAN
 25TH ST. WELLS

SCALE: 1" = 20' SHEET 4 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	DIST 8 DEEP WELLS 2023-1	ST. CLAIR/MADISON	11	7
* VARIOUS			CONTRACT NO. 76P99	
ILLINOIS FED. AID PROJECT				

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 STATE OF ILLINOIS DESIGN FIRM NO. 164-2738

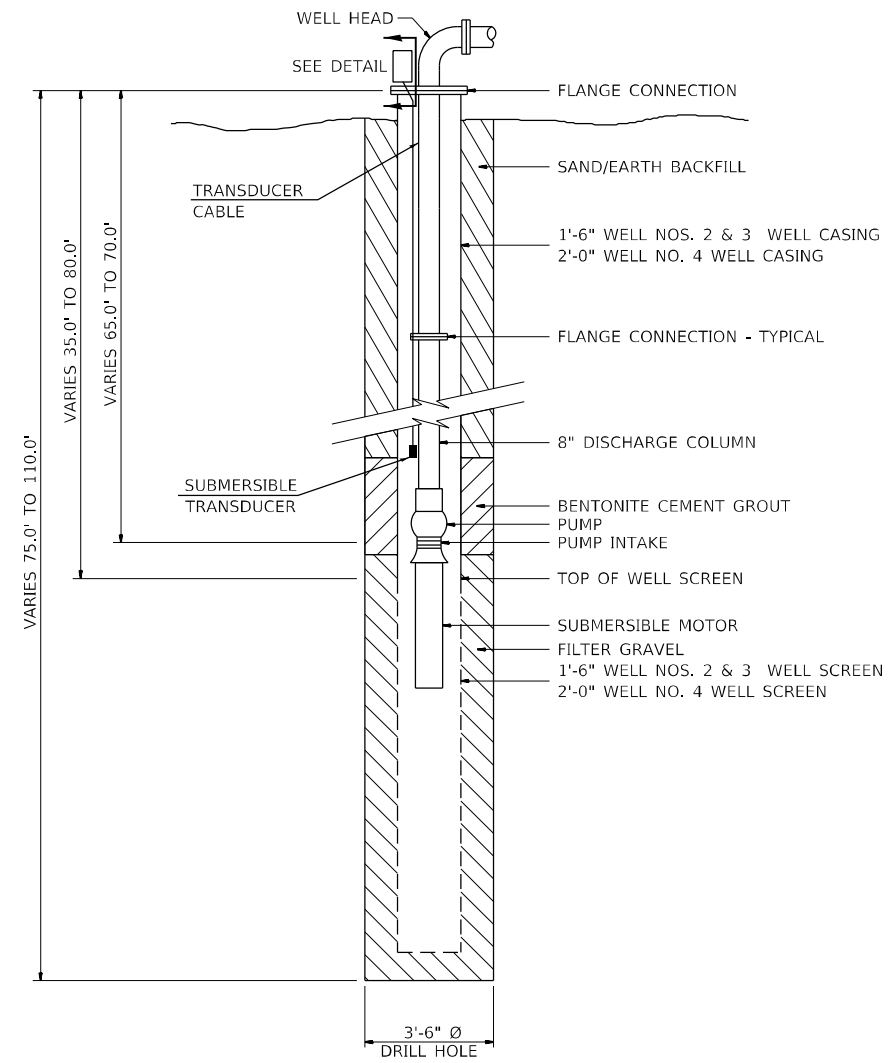
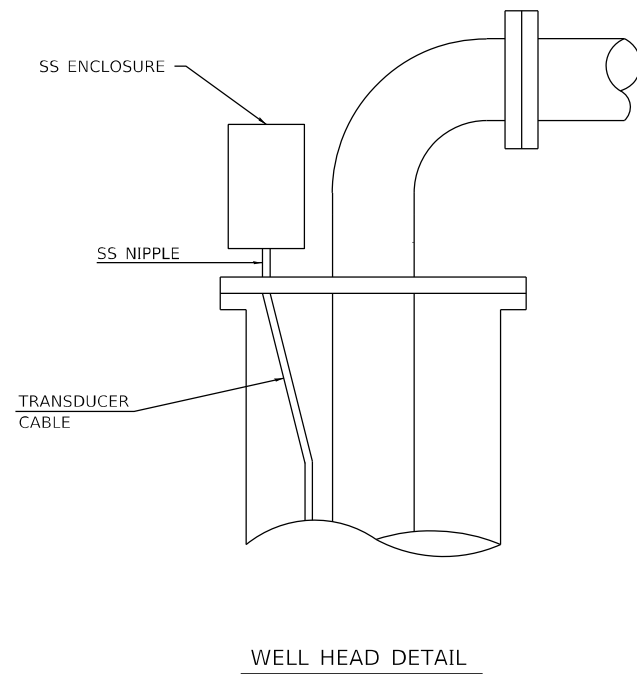
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PLOT DATE = 7/13/2022	DATE 7/11/2022	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

LOCATION NO. 5:
 WELL HOUSE BUILDING - CAISSON DETAILS
 SCALE: NONE SHEET 6 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	DIST 8 DEEP WELLS 2023-1	ST. CLAIR/MADISON	11	9
* VARIOUS			CONTRACT NO. 76P99	
ILLINOIS FED. AID PROJECT				

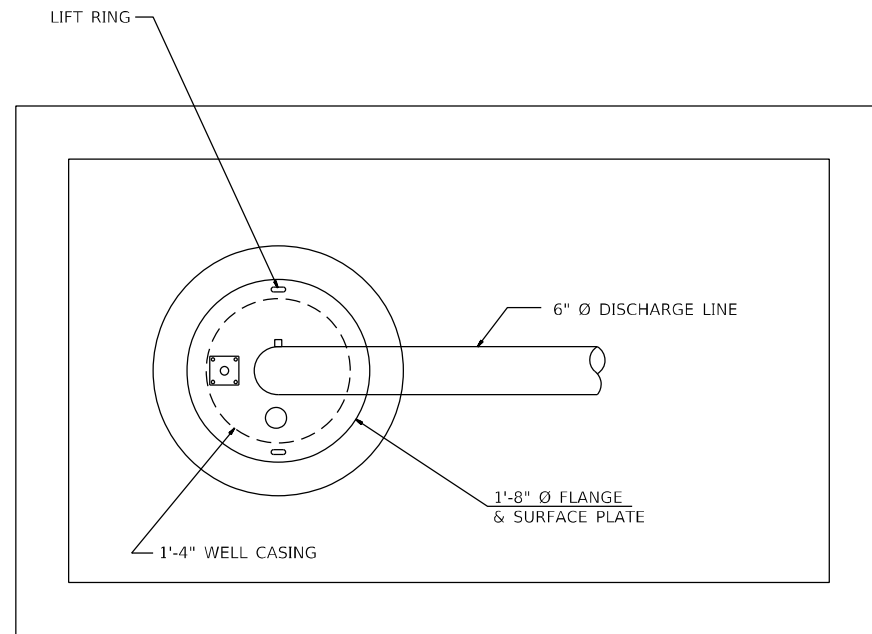
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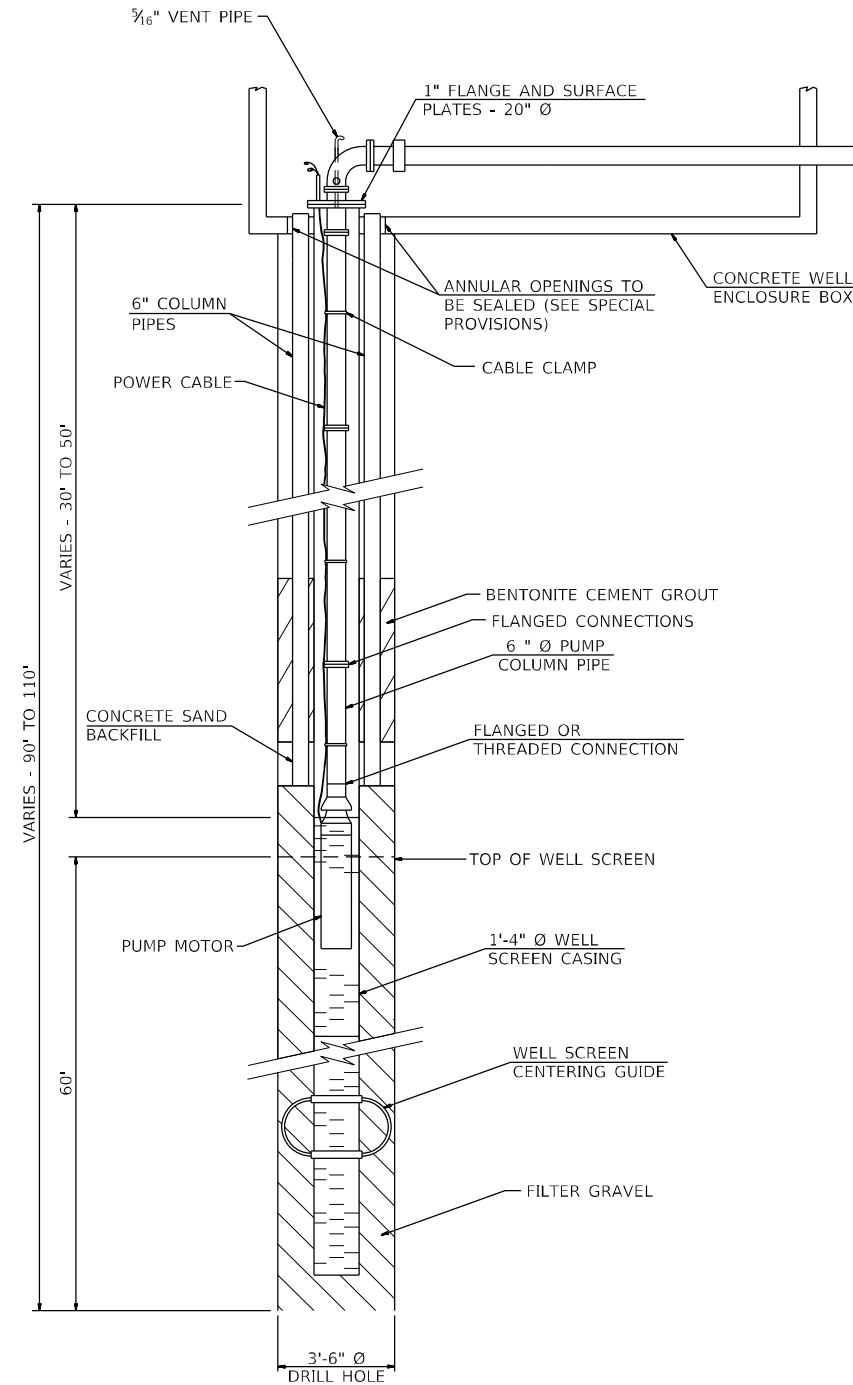
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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* VARIOUS			CONTRACT NO. 76P99	
ILLINOIS			FED. AID PROJECT	

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WELL HEAD DETAIL



EXISTING