

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

D-98 42-22 CONTRACT NO. 76P99

INDEX OF SHEETS

- 1 COVER SHEET AND STANDARDS
2 GENERAL NOTES, COMMITMENTS, AND ADT
3 SUMMARY OF QUANTITIES
4 LOCATION NO. 1: SITE PLAN TRI-LEVEL WELLS
5 LOCATION NO. 2: SITE PLAN VENICE WELLS
6 LOCATION NO. 3: SITE PLAN 15TH STREET WELLS
7 LOCATION NO. 4: SITE PLAN 25TH STREET WELLS
8 LOCATION NO. 5: SITE PLAN MISSOURI AVENUE WELLS
9 LOCATION NO. 5: WELL HOUSE BUILDING - CAISSON DETAILS
10 LOCATION NOS. 1, 2, 3: TYPICAL WELL DETAILS
11 LOCATION NO. 4: TYPICAL WELL DETAILS

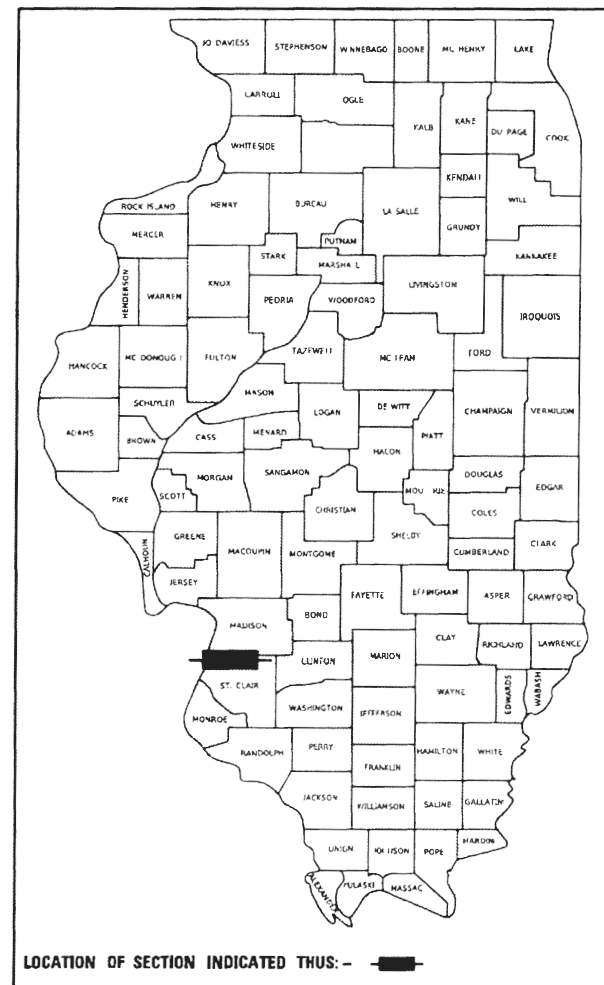
PROPOSED HIGHWAY PLANS

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

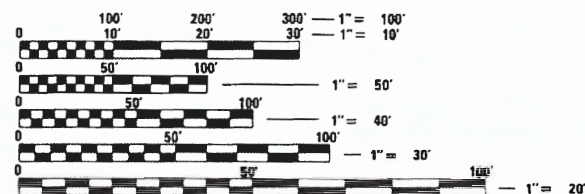
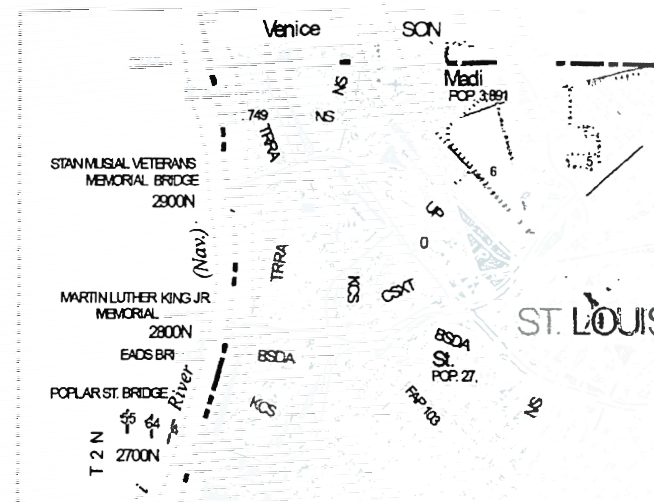
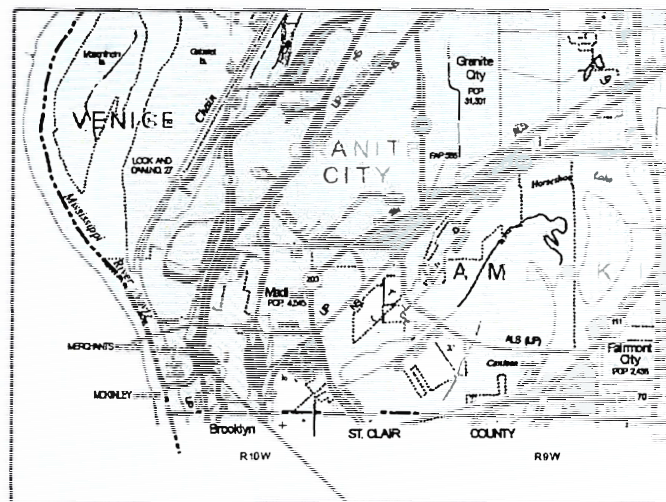
HIGHWAY STANDARDS

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

C-98-072-22



PLANS PREPARED BY: KLINGNER & ASSOCIATES, P.C. Engineers - Architects - Surveyors

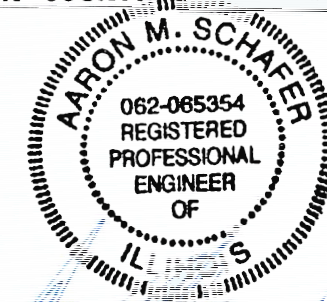


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

DATE 9/30/22

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SUBMITTED Oct 13 2022 REGIONAL ENGINEER December 9, 2022 ENGINEER OF DESIGN AND ENVIRONMENT December 9, 2022 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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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

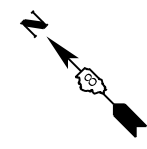
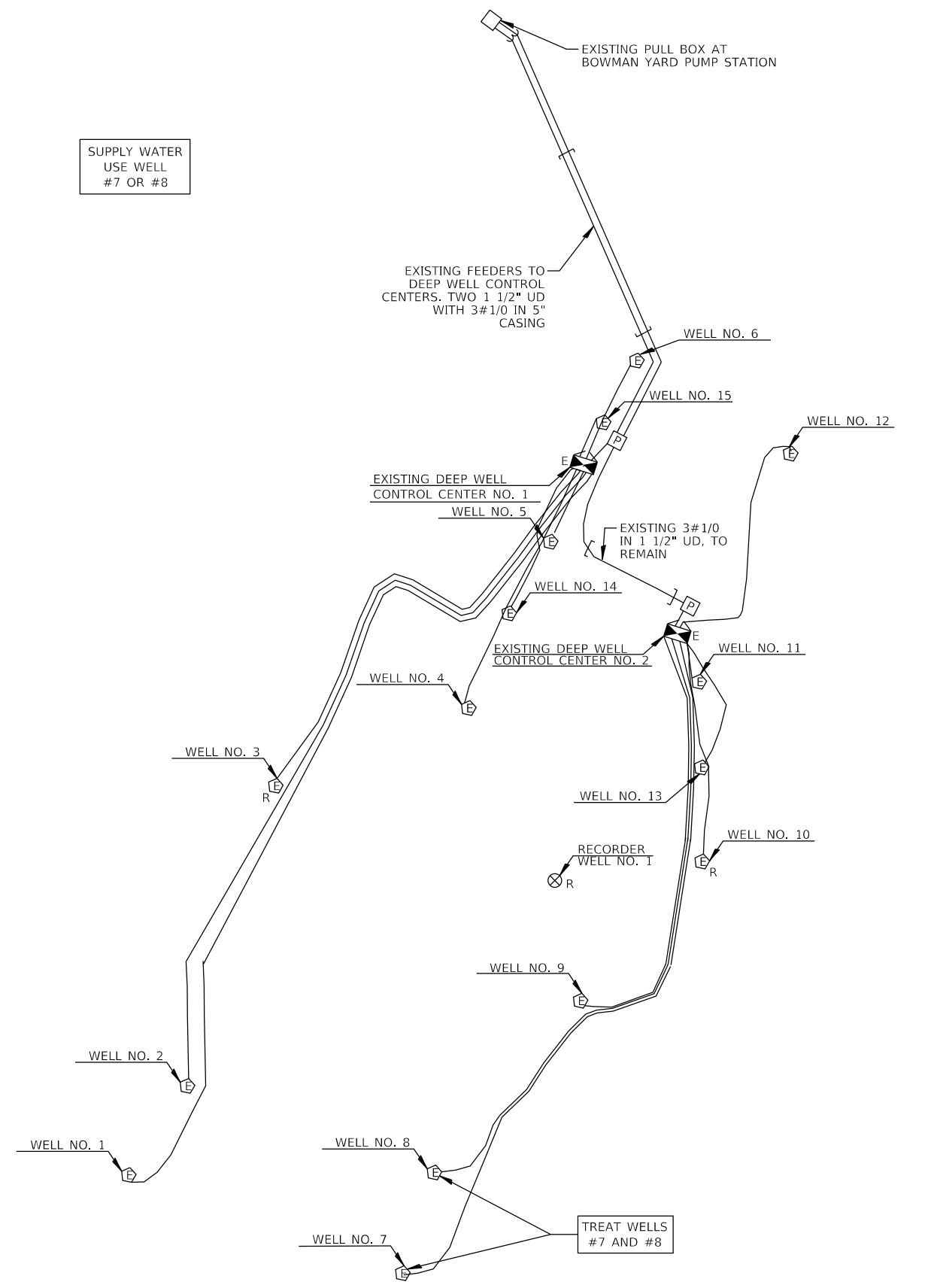
GENERAL NOTES, COMMITMENTS AND ADT

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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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 -

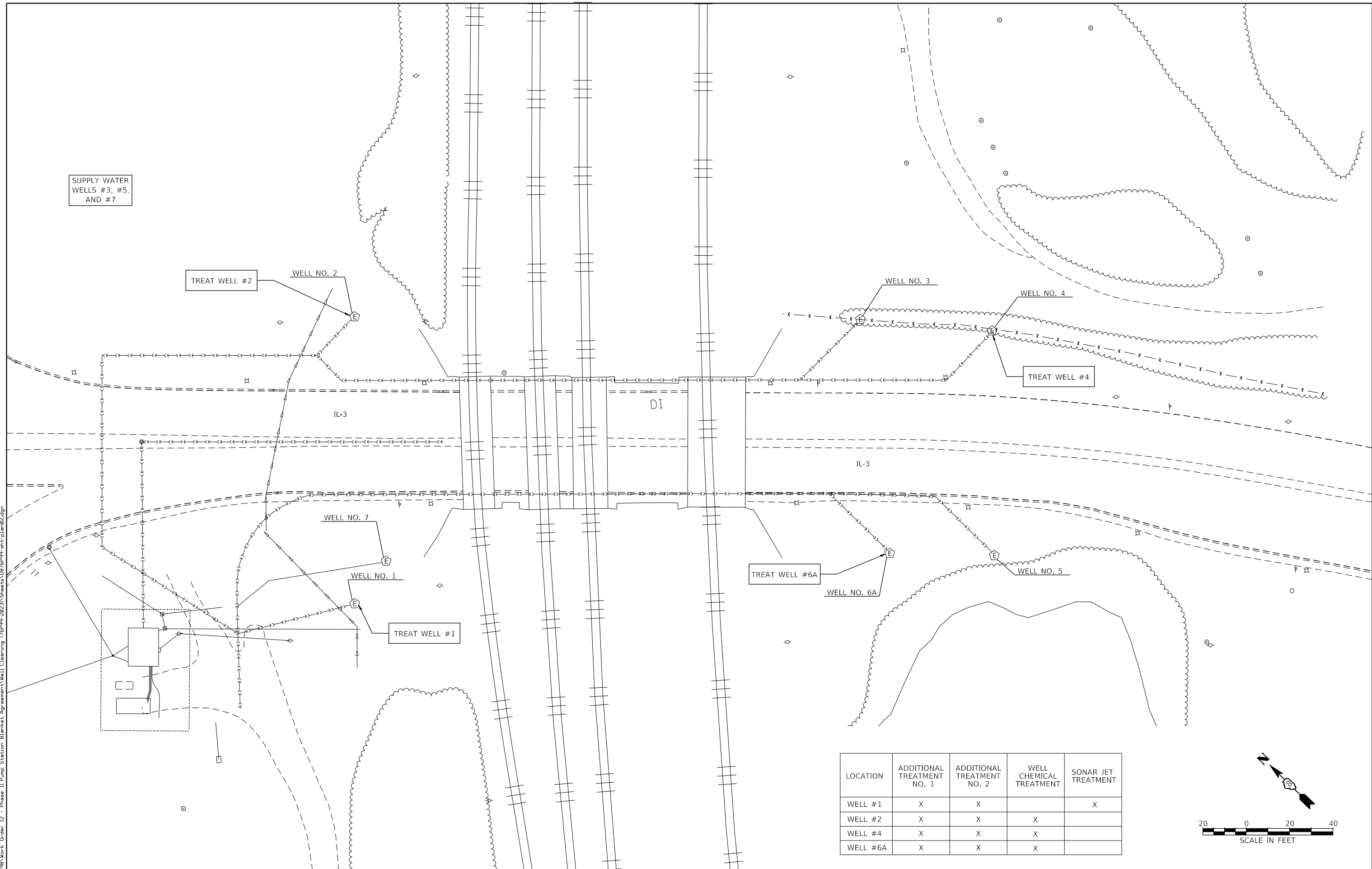
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

LOCATION NO. 1: SITE PLAN  
 TRI-LEVEL WELLS  
 SCALE: 1" = 20' SHEET 1 OF 8 SHEETS STA. TO STA.

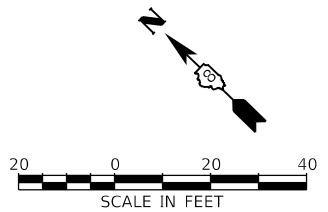
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	DIST 8 DEEP WELLS 2023-1	ST. CLAIR/MADISON	11	4
* VARIOUS			CONTRACT NO. 76P99	
ILLINOIS		FED. AID PROJECT		

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SUPPLY WATER  
WELLS #3, #5,  
AND #7



LOCATION	ADDITIONAL TREATMENT NO. 1	ADDITIONAL TREATMENT NO. 2	WELL CHEMICAL TREATMENT	SONAR JET TREATMENT
WELL #1	X	X		X
WELL #2	X	X	X	
WELL #4	X	X	X	
WELL #6A	X	X	X	



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

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REVISED -  
REVISED -  
REVISED -

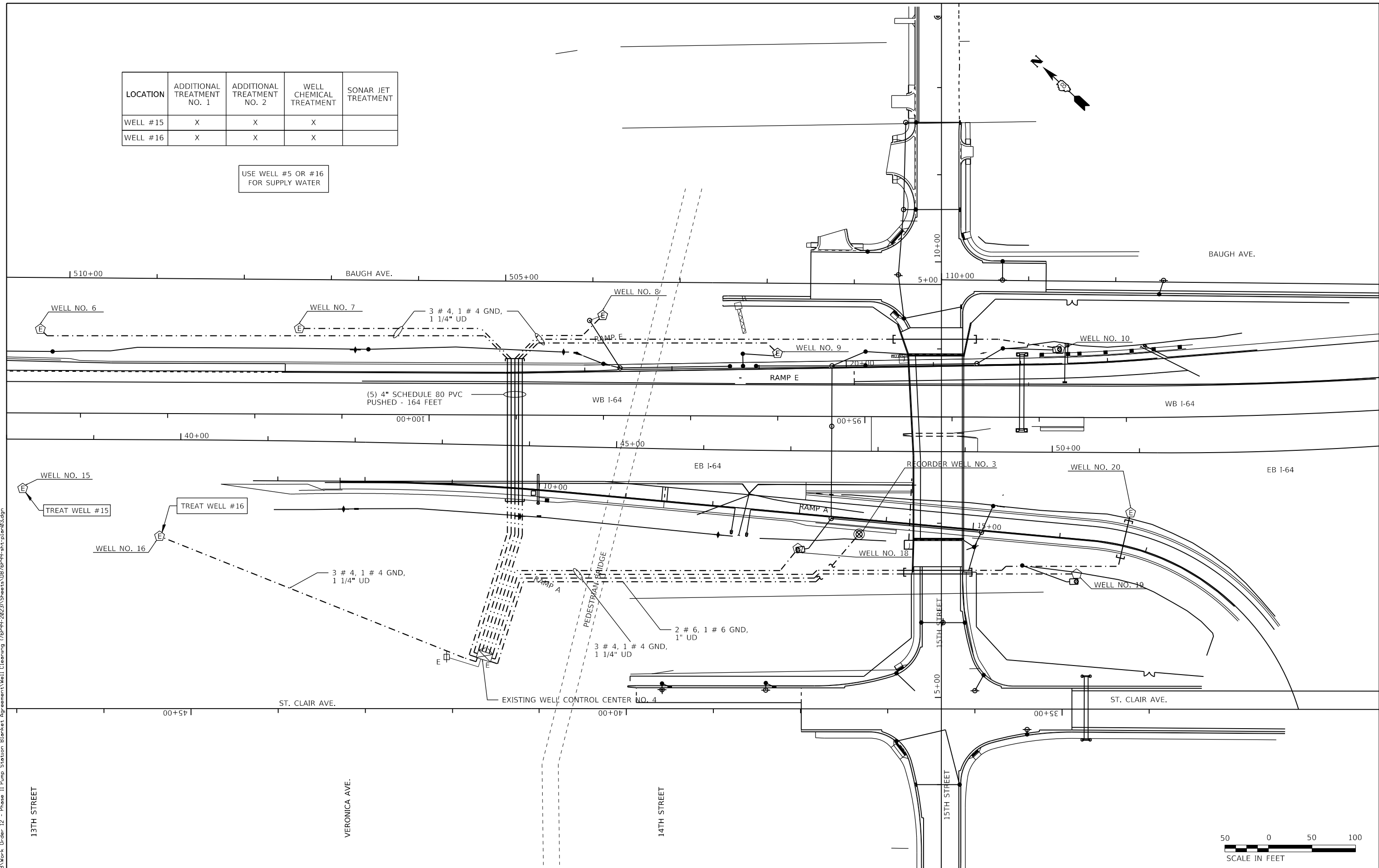
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LOCATION NO. 2: SITE PLAN  
VENICE WELLS  
SCALE: 1" = 20' SHEET 2 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	5
* 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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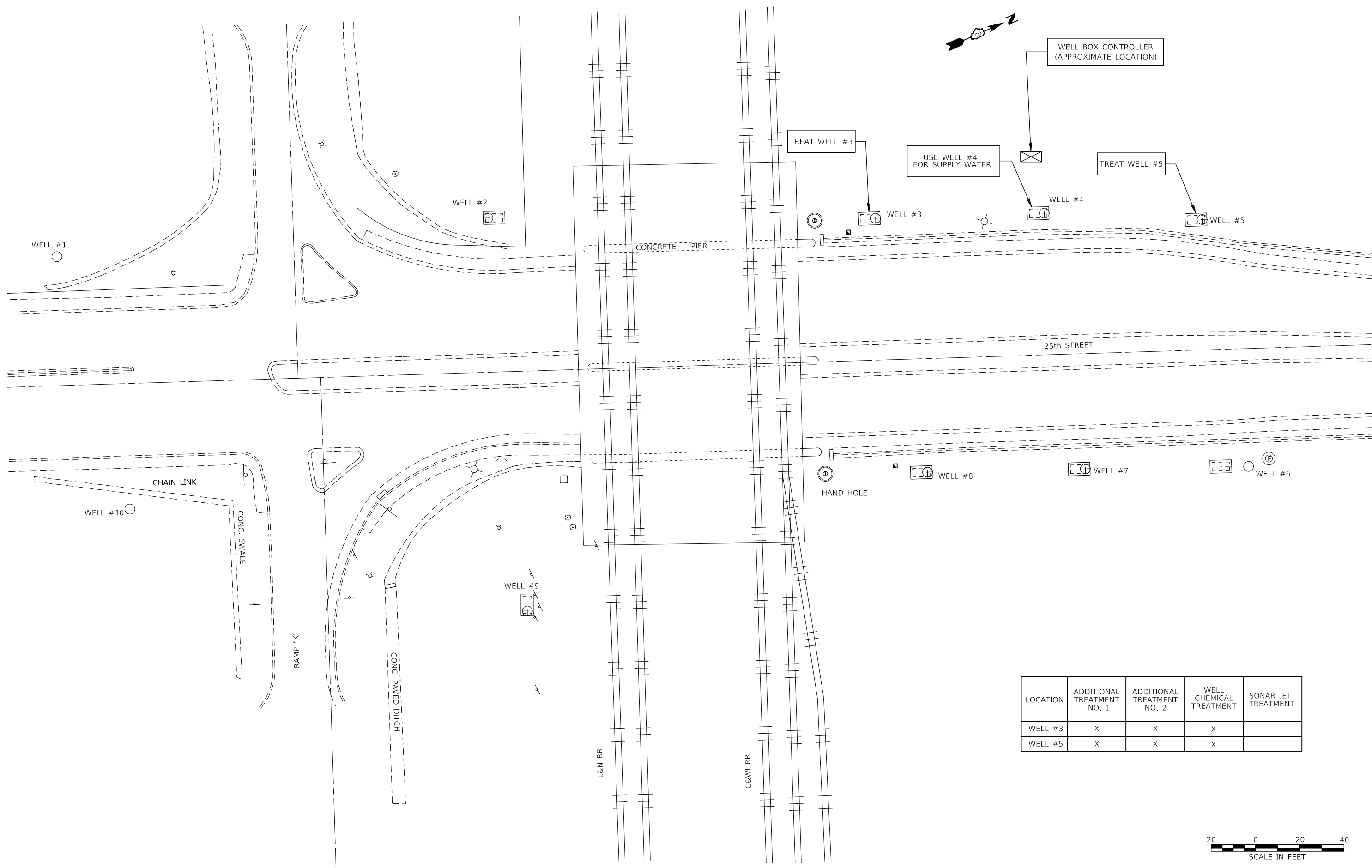
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	DATE 7/11/2022	REVISED -

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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PLOT DATE = 9/30/2022	DATE 7/11/2022	REVISED -

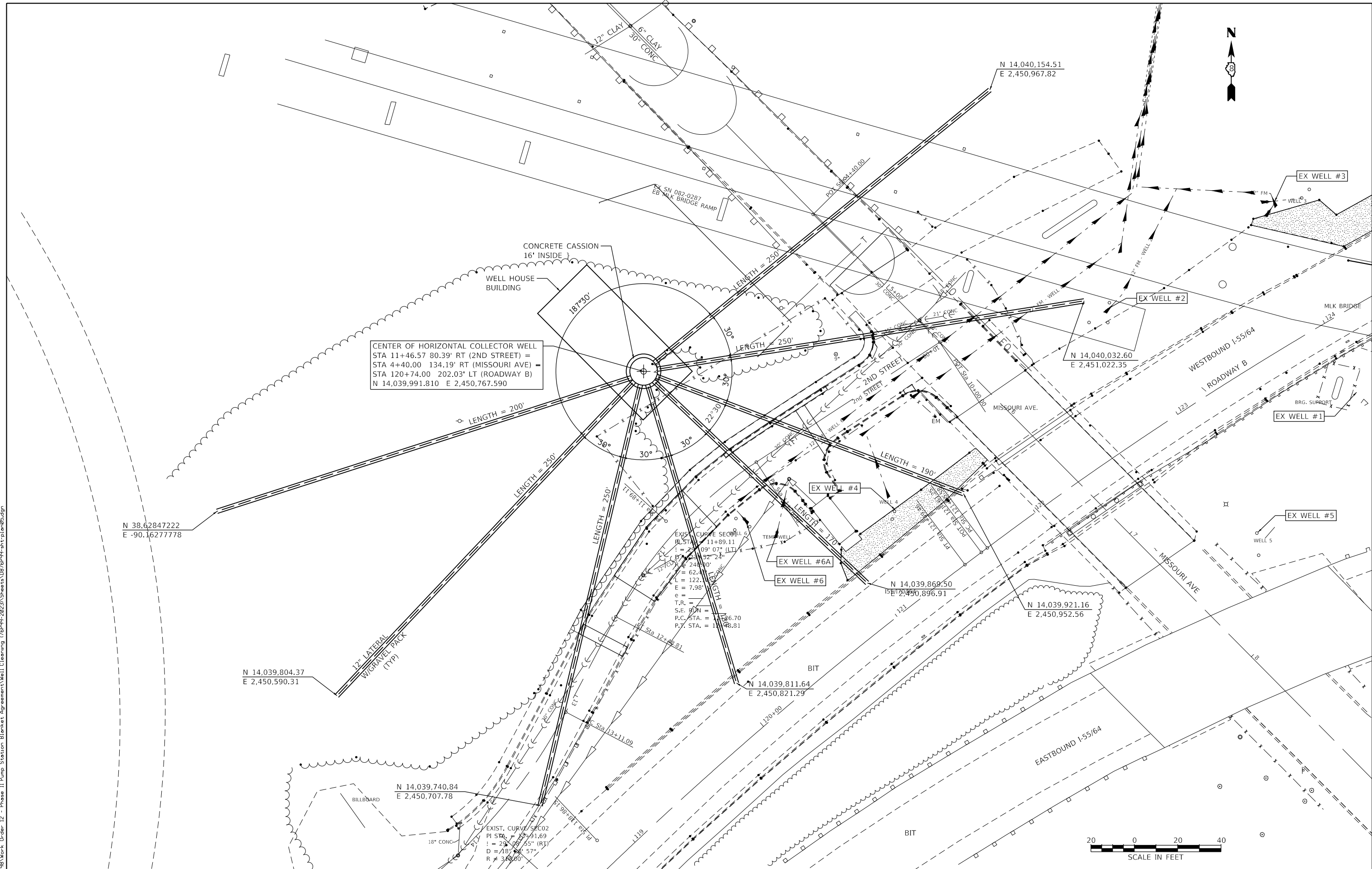
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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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CENTER OF HORIZONTAL COLLECTOR WELL  
 STA 11+46.57 80.39' RT (2ND STREET) =  
 STA 4+40.00 134.19' RT (MISSOURI AVE) =  
 STA 120+74.00 202.03' LT (ROADWAY B)  
 N 14,039,991.810 E 2,450,767.590

EXIST. CURVE SEC011 6  
 BL 57' 11+89.11  
 I = 29' 09" 07" (LT)  
 P = 24.97' 24"  
 L = 62.40'  
 E = 7.98'  
 T.R. =  
 S.E. MON =  
 P.C. STA. = 11+88.81  
 P.T. STA. = 12+31.21

N 38,62847222  
 E -90.16277778

N 14,039,804.37  
 E 2,450,590.31

N 14,039,740.84  
 E 2,450,707.78

EXIST. CURVE SEC02  
 PI STA = 11+91.69  
 I = 29' 06' 55" (RT)  
 D = 18' 57"  
 R = 340.00'

N 14,039,869.50  
 E 2,450,896.91

N 14,039,921.16  
 E 2,450,952.56



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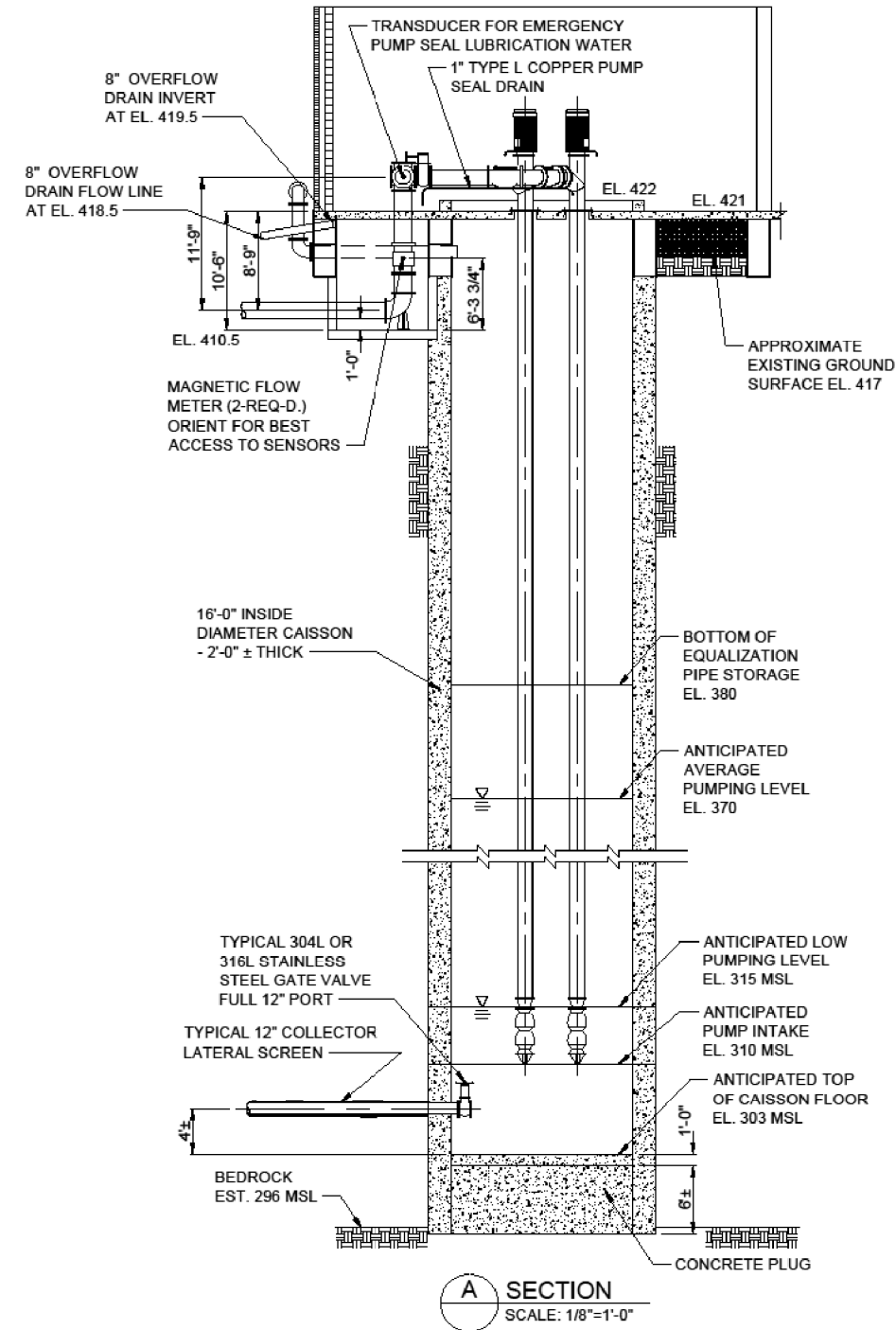
LOCATION NO. 5: SITE PLAN  
 MISSOURI AVENUE WELLS

SCALE: 1" = 20'  
 SHEET 5 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	8
* VARIOUS			CONTRACT NO. 76P99	
ILLINOIS		FED. AID PROJECT		



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**A SECTION**  
SCALE: 1/8"=1'-0"

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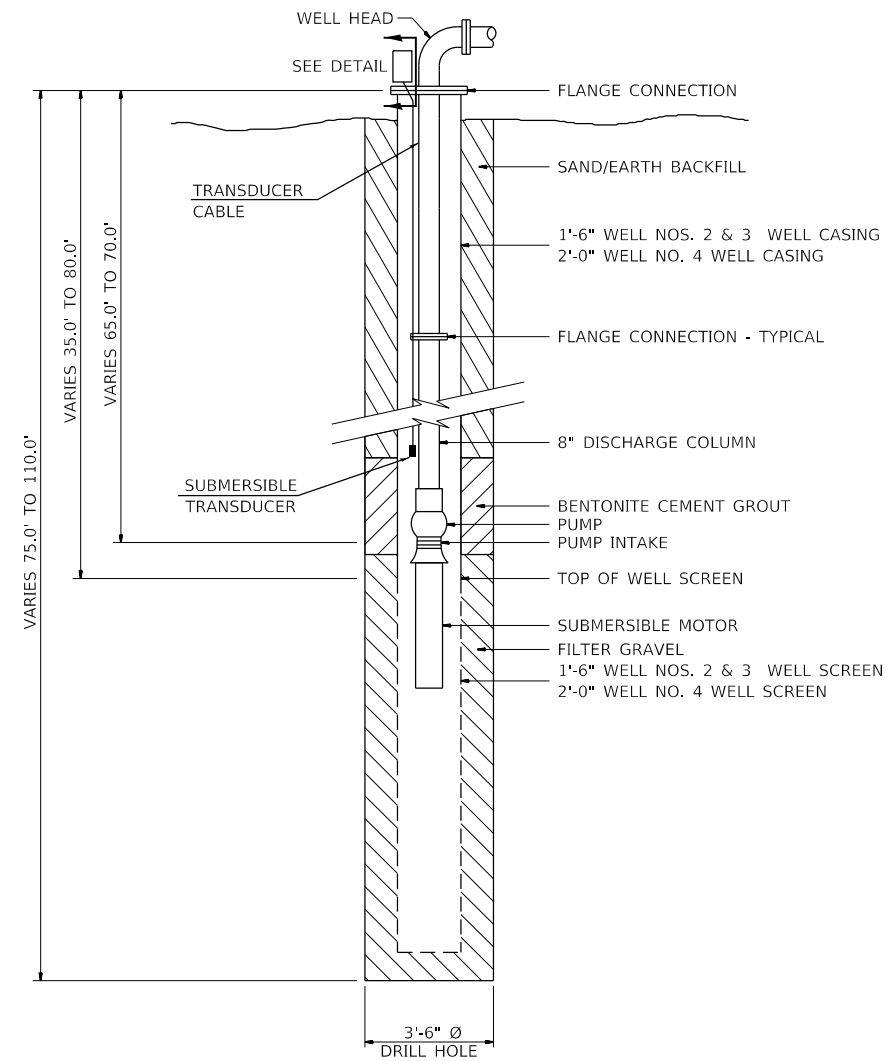
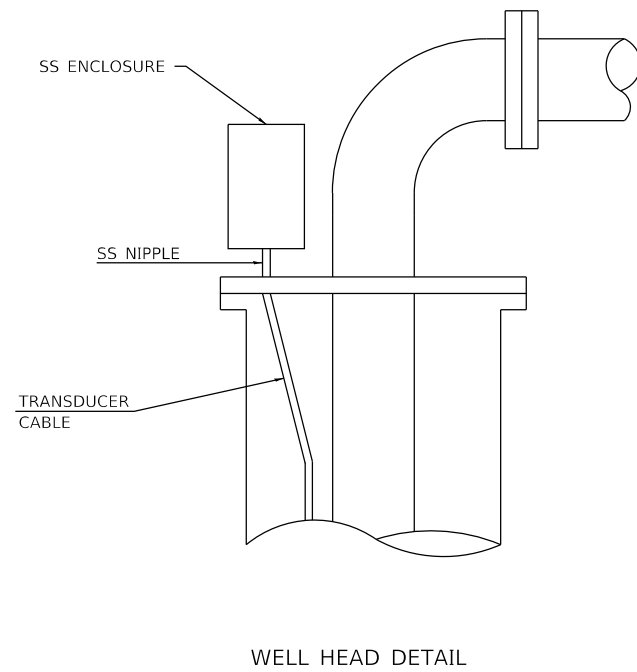
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

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		

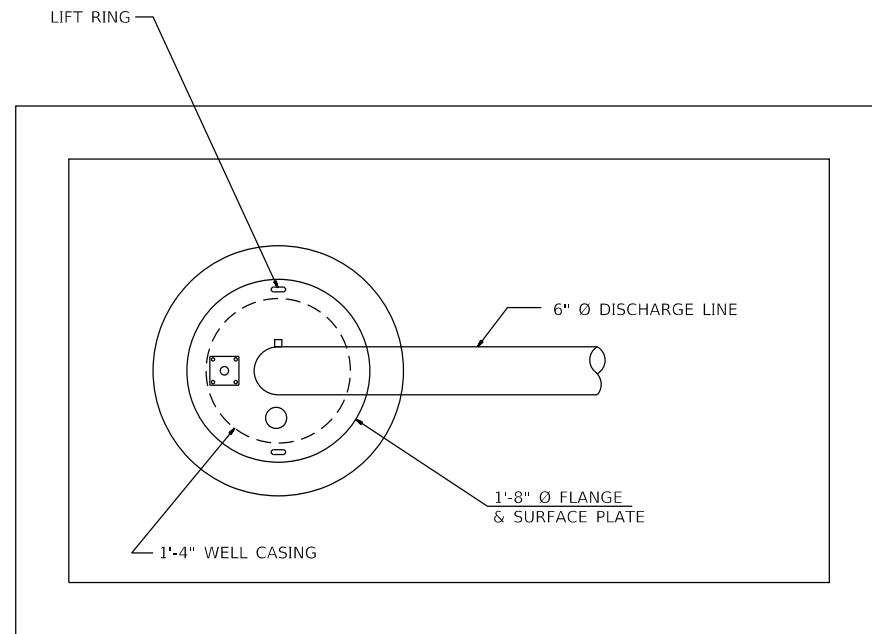
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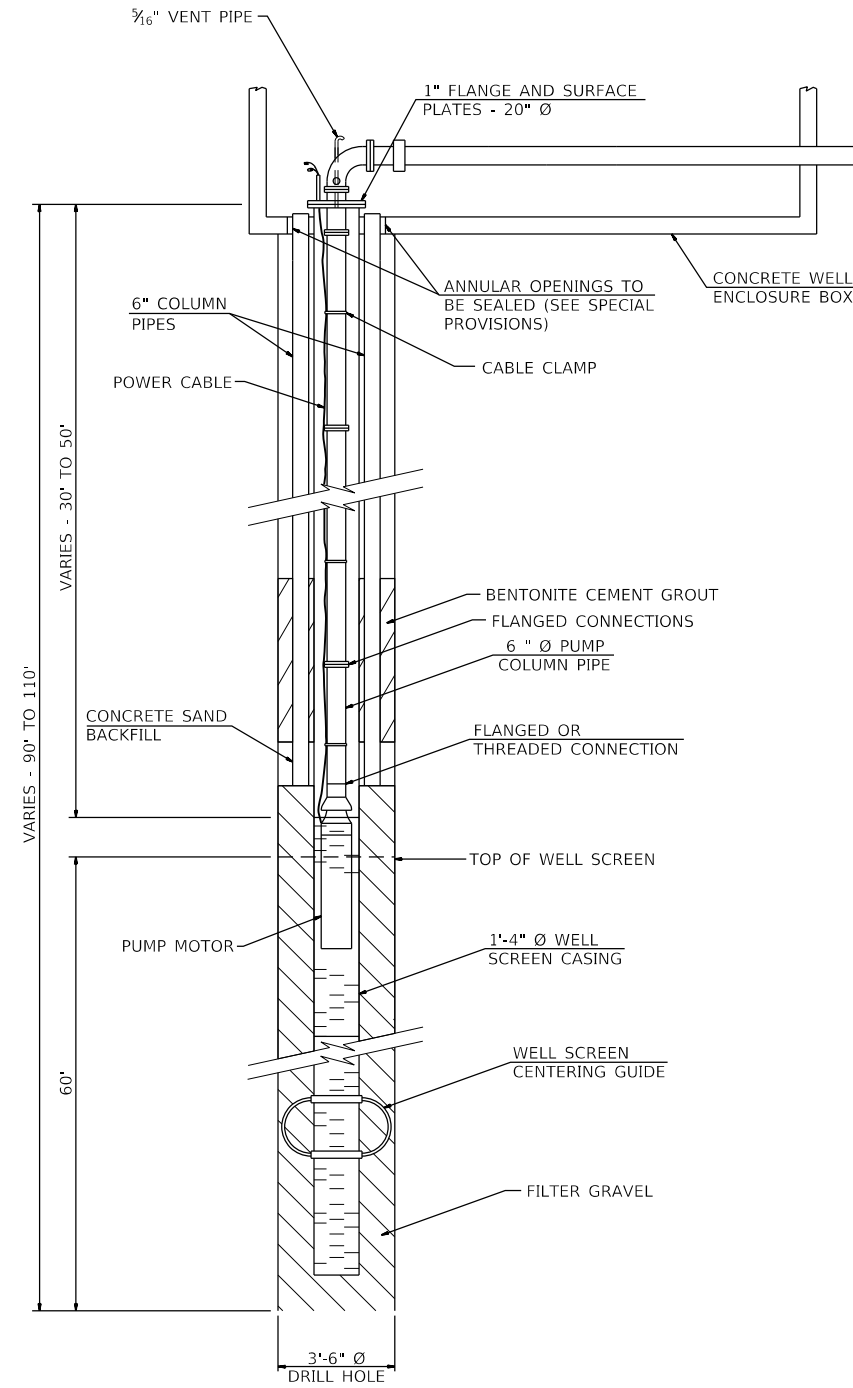
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PLOT DATE = 7/13/2022	DATE 7/11/2022	REVISED -

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	DIST 8 DEEP WELLS 2023-1	ST. CLAIR/MADISON	11	10
* VARIOUS			CONTRACT NO. 76P99	
		ILLINOIS	FED. AID PROJECT	

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WELL HEAD DETAIL



EXISTING