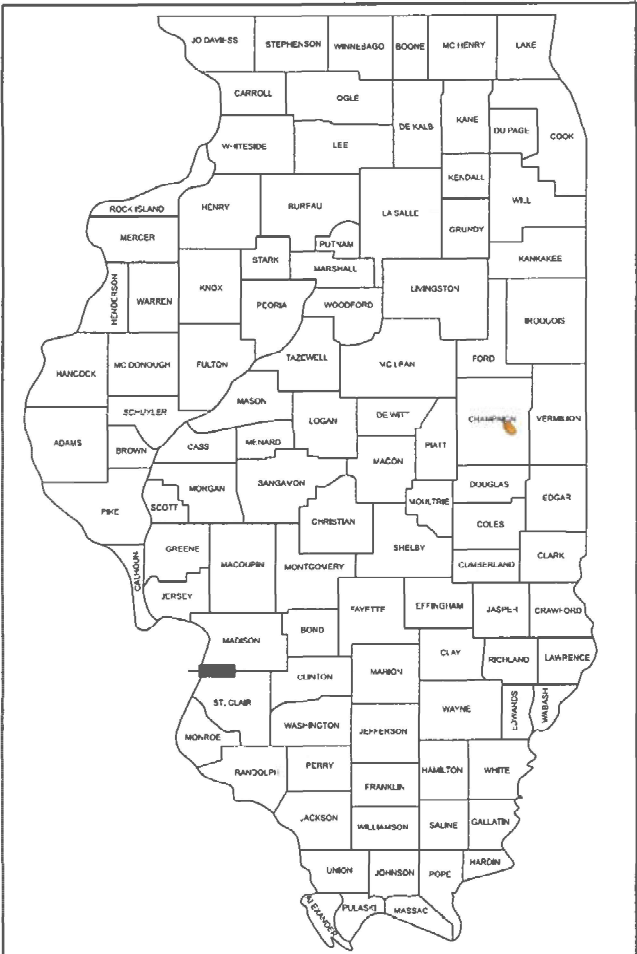


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	DIST 8 DEEP WELLS 2026-1	ILLINOIS	10	1
CONTRACT NO. 76U88				

* ST. CLAIR & MADISON

D-98-084-25



LOCATION OF SECTION INDICATED THUS: -

PLANS PREPARED BY:

DONOHUE

230 WEST MONROE STREET, SUITE 2925
CHICAGO, IL 60606
312-236-9147

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED DEC 5 2015
[Signature] REGIONAL ENGINEER
December 5 2015
[Signature] ENGINEER OF DESIGN AND ENVIRONMENT
December 5 2015
[Signature] DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS:

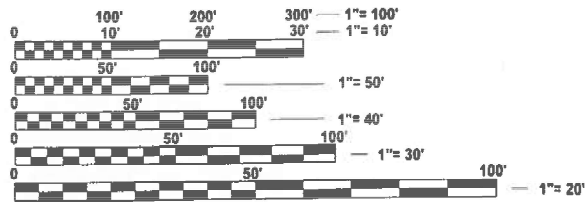
- 1 COVER SHEET AND STANDARDS
- 2 STATE HIGHWAY STANDARDS, GENERAL NOTES, AND COMMITMENTS
- 3 SUMMARY OF QUANTITIES
- 4 LOCATION NO. 1: SITE PLAN TRI-LEVEL WELLS
- 5 LOCATION NO. 2: SITE PLAN 25TH ST. WELLS
- 6 LOCATION NO. 3: SITE PLAN VENICE WELLS
- 7 LOCATION NO. 4: SITE PLAN MISSOURI AVENUE WELLS
- 8 LOCATION NO. 1, 3: TYPICAL WELL DETAILS
- 9 LOCATION NO. 2: TYPICAL WELL DETAILS
- 10 LOCATION NO. 4: MISSOURI AVENUE COLLECTOR WELL - CAISSON DETAILS



Jeffrey A. Gratzner
10/07/25

JEFFREY A. GRATZER
REGISTERED PROFESSIONAL ENGINEER
STATE OF ILLINOIS NO. 062.069787
LICENSE EXPIRES NOVEMBER 30, 2027

DATE



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

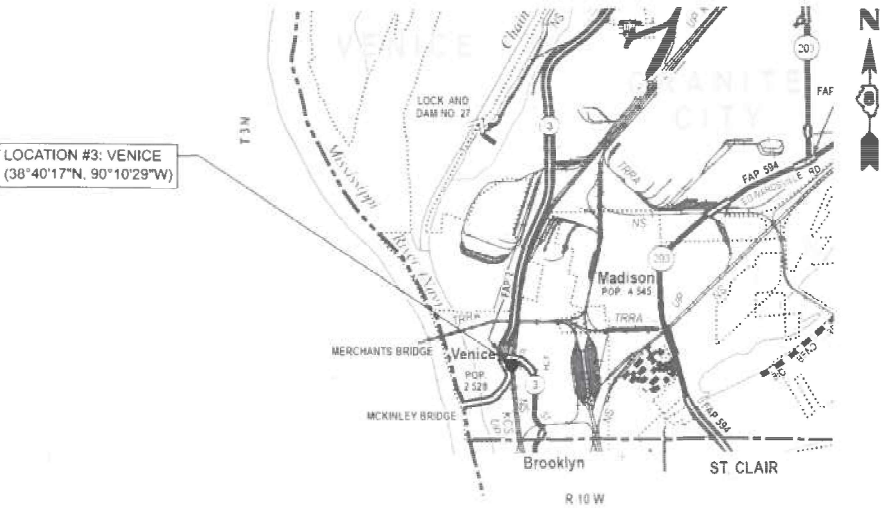
PROJECT ENGINEER: CHERYL KEPLAR
PROJECT MANAGER: RICHARD BARBEE

CONTRACT NO. 76U88

PROPOSED
HIGHWAY PLANS

FAI ROUTE (VARIES)
SECTION DIST 8 DEEP WELLS 2026-1
DEEP WELL TREATMENT
ST. CLAIR & MADISON COUNTIES

C-98-152-25



MADISON COUNTY



ST. CLAIR COUNTY

LOCATION #4: MISSOURI AVENUE WELLS
(38°37'43"N, 90°9'44"W)

LOCATION #2: 25TH STREET WELLS
(38°37'17"N, 90°7'26"W)

STATE HIGHWAY STANDARDS

701101-05 OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5M) TO 24" (600MM) FROM PAVEMENT EDGE
701106-02 OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5M) AWAY
701400-12 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-13 LANE CLOSURE, FREEWAY/EXPRESSWAY
701428-01 TRAFFIC CONTROL, SETUP & REMOVAL, FREEWAY/EXPRESSWAY
701601-09 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701901-11 TRAFFIC CONTROL DEVICES

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. EXISTING UTILITY LOCATIONS SHOWN ON THESE PLANS WERE COMPLIED FROM THE BEST AVAILABLE RECORDS, EXACT DISTANCES AND LOCATIONS OF UTILITIES TO BE RELOCATED HAVE NOT BEEN DETERMINED. ALL UTILITIES, EITHER SHOWN OR NOT SHOWN, IN DIRECT CONFLICT WITH THE CONSTRUCTION SHALL BE RELOCATED BY OTHERS (RESPECTIVE UTILITY COMPANY). CONTRACTORS SHALL COORDINATE WITH THE VARIOUS COMPANIES TO ESTABLISH EXACT LOCATIONS AND DEPTHS PRIOR TO EXCAVATING. CONTRACTOR SHALL CONTACT THE JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS (J.U.L.I.E) AT 1-800-892-0123 FOR LOCATING THE VARIOUS UTILITIES DURING CONSTRUCTION.
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.

COMMITMENTS

1. NONE

MODEL: General Notes
FILE NAME: P:\14312\h1TO_07 Deep Well Treatment\Drawg\08761U88-sh-gennote.dgn

MODEL: SQQ
FILE NAME: P:\14312\h\TO_07 Deep Well Treatment\Drawg\0876U88-sht-SQQ.dgn

	USER NAME = sbremer	DESIGNED - LDP	REVISED -
		DRAWN - SJB	REVISED -
		CHECKED - JAG	REVISED -
	PLOT DATE = 10/7/2025	DATE - 10/7/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 3 OF 10 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	DIST 8 DEEP WELLS 2026-1	*	10	3
		CONTRACT NO. 76U88		
		ILLINOIS FED. AID PROJECT		

REV - MS

* ST. CLAIR AND MADISON

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				LOCATION 1 TRI-LEVEL	LOCATION 2 25TH STREET	LOCATION 3 VENICE	LOCATION 4 MISSOURI AVE
				ROADWAY	ROADWAY	ROADWAY	ROADWAY
				0044 URBAN	0044 URBAN	0044 URBAN	0044 URBAN
67100100	MOBILIZATION	L SUM	1	0.25	0.25	0.25	0.25
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1		0.5	0.5	
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1			
X0300358	ADDITIONAL TREATMENT NO. 1	EACH	9	5	2	2	
X0300359	ADDITIONAL TREATMENT NO. 2	EACH	9	5	2	2	
X0325850	SONAR-JET TREATMENT	EACH	2		2		
X0943700	WELL CHEMICAL TREATMENT	EACH	7	5	1	1	
X1200211	DEEP WELL VIDEO INSPECTION	L SUM	1				1

100% STATE

MODEL: Location No. 1
FILE NAME: P:\14312\h1\TO_07 Deep Well Treatment\Drawg\0876U88-shr-clan01.dgn



USER NAME = sbremer	DESIGNED - LDP	REVISED -
	DRAWN - SJB	REVISED -
	CHECKED - JAG	REVISED -
PLOT DATE = 10/7/2025	DATE - 10/7/2025	REVISED -

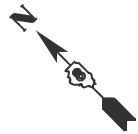
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION NO. 1: SITE PLAN
TRI-LEVEL WELLS

SCALE: SHEET 4 OF 10 SHEETS STA. TO STA.

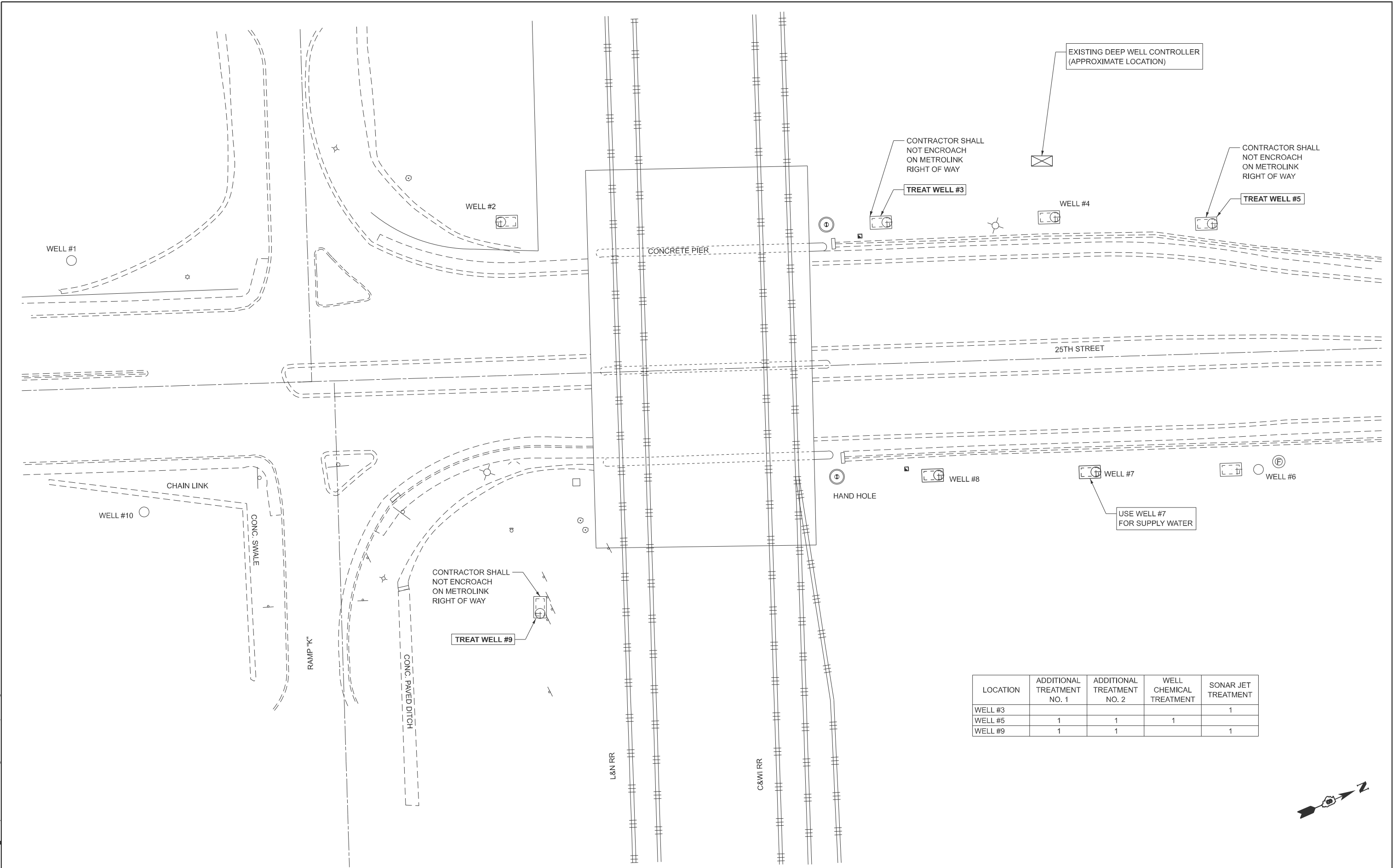
F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	DIST 8 DEEP WELLS 2026-1	*	10	4
CONTRACT NO. 76U88				
ILLINOIS FED. AID PROJECT				

* ST. CLAIR AND MADISON

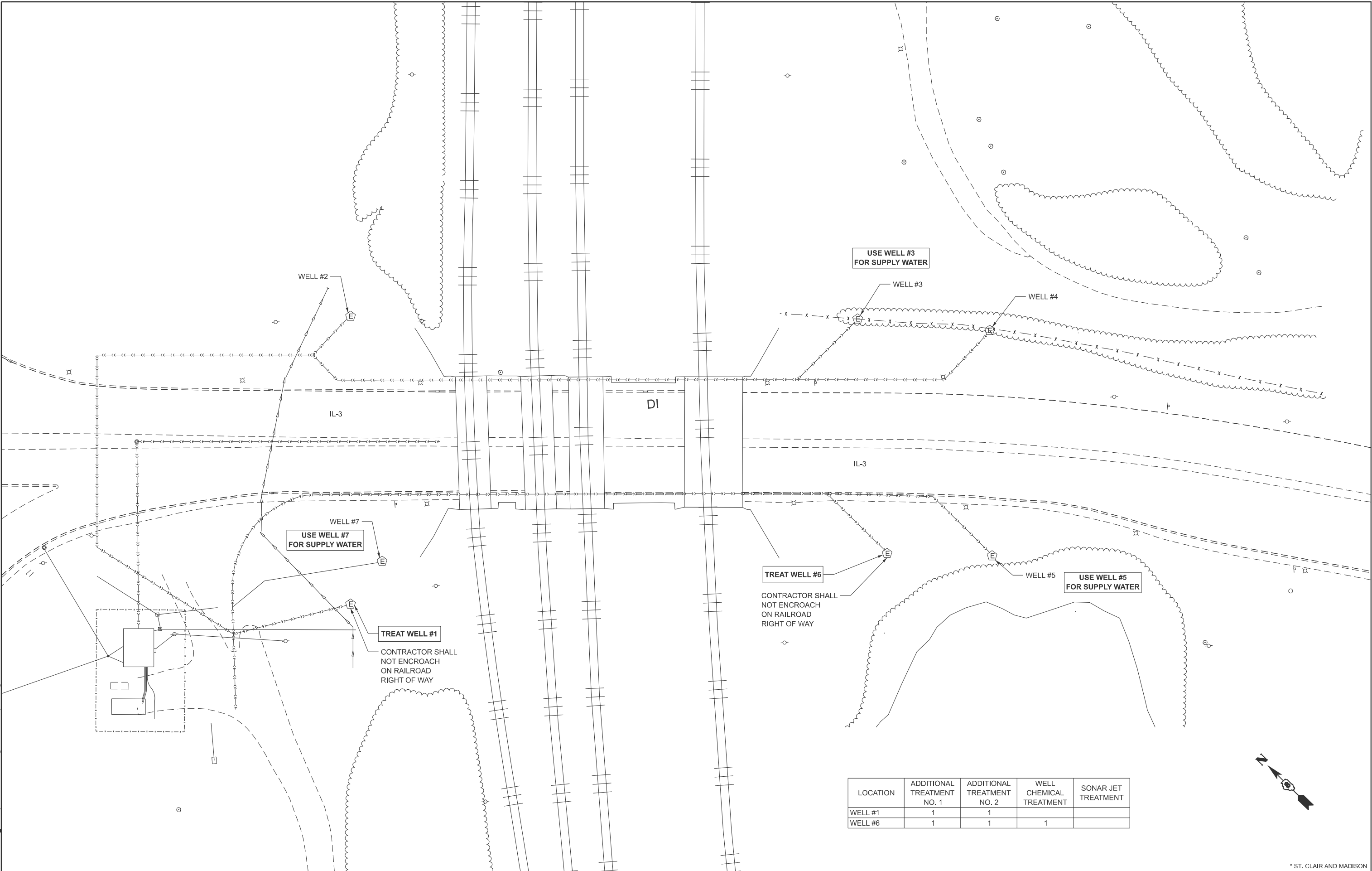


LOCATION	ADDITIONAL TREATMENT NO. 1	ADDITIONAL TREATMENT NO. 2	WELL CHEMICAL TREATMENT
WELL #4	1	1	1
WELL #5	1	1	1
WELL #6	1	1	1
WELL #14	1	1	1
WELL #15	1	1	1

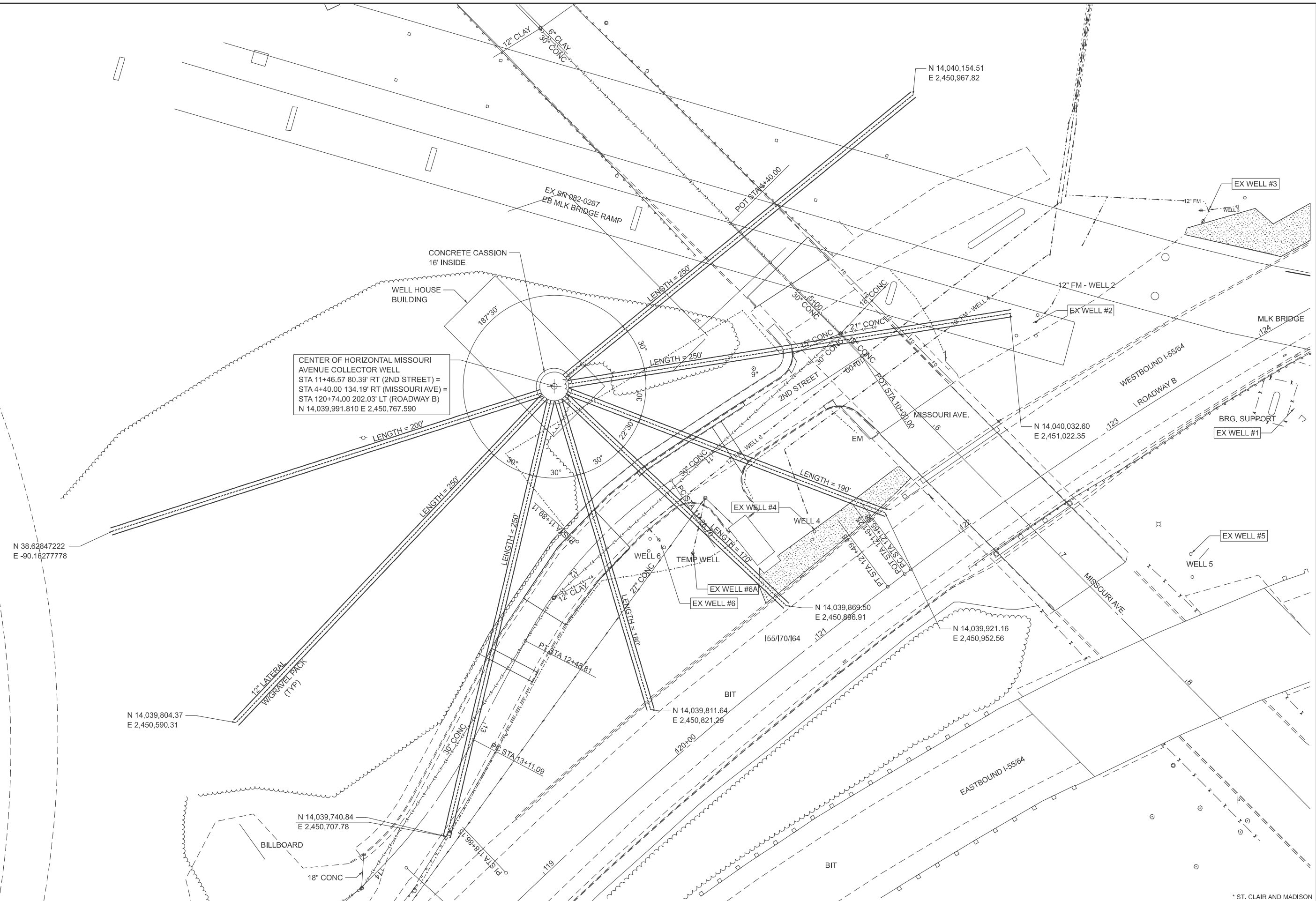
MODEL: Location No. 2
FILE NAME: P:\14312a\1TO_07 Deep Well Treatment\Drawg\0876U88-shr-plan02.dgn



MODEL: Location No. 3
FILE NAME: P:\14312a\1\TO_07 Deep Well Treatment\Drawg\0876\U88-shr-plan03.dgn



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



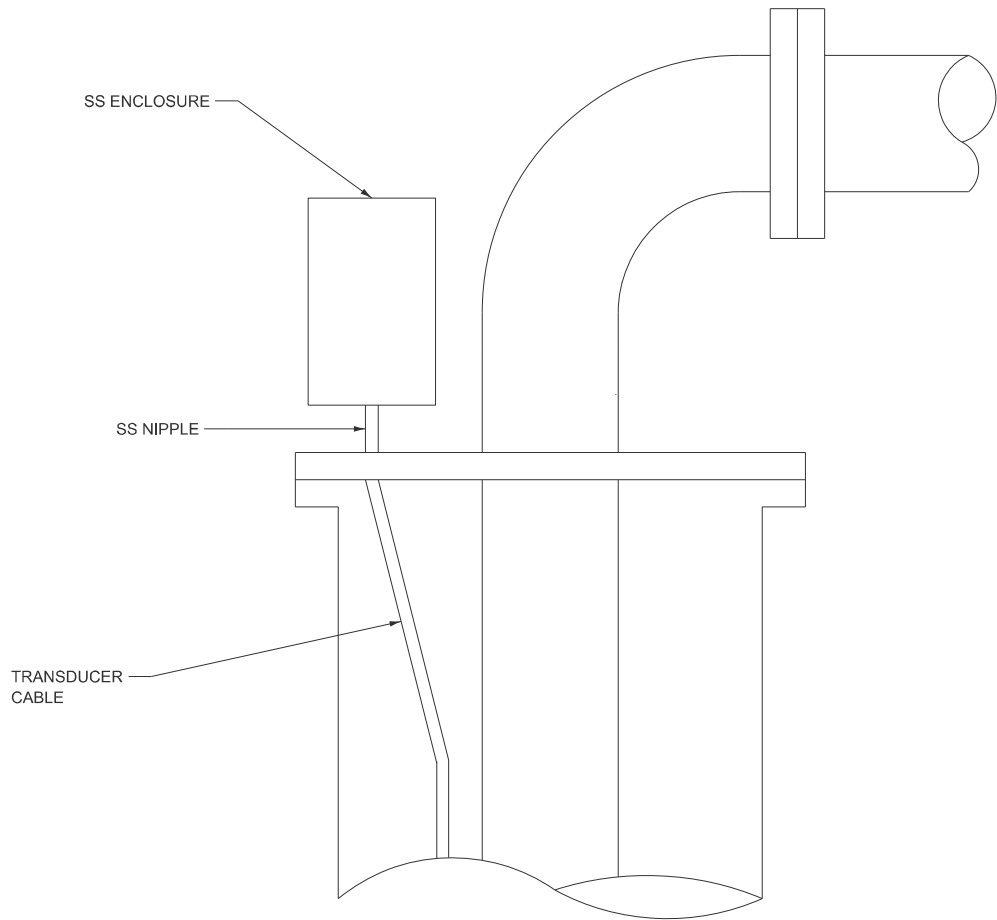
CENTER OF HORIZONTAL MISSOURI AVENUE COLLECTOR WELL
STA 11+46.57 80.39' RT (2ND STREET) =
STA 4+40.00 134.19' RT (MISSOURI AVE) =
STA 120+74.00 202.03' LT (ROADWAY B)
N 14,039,991.810 E 2,450,767.590

MODEL: Missouri Ave
FILE NAME: P:\14312\h1TO_07 Deep Well Treatment\Drawg\0876U88-shr-plan04.dgn

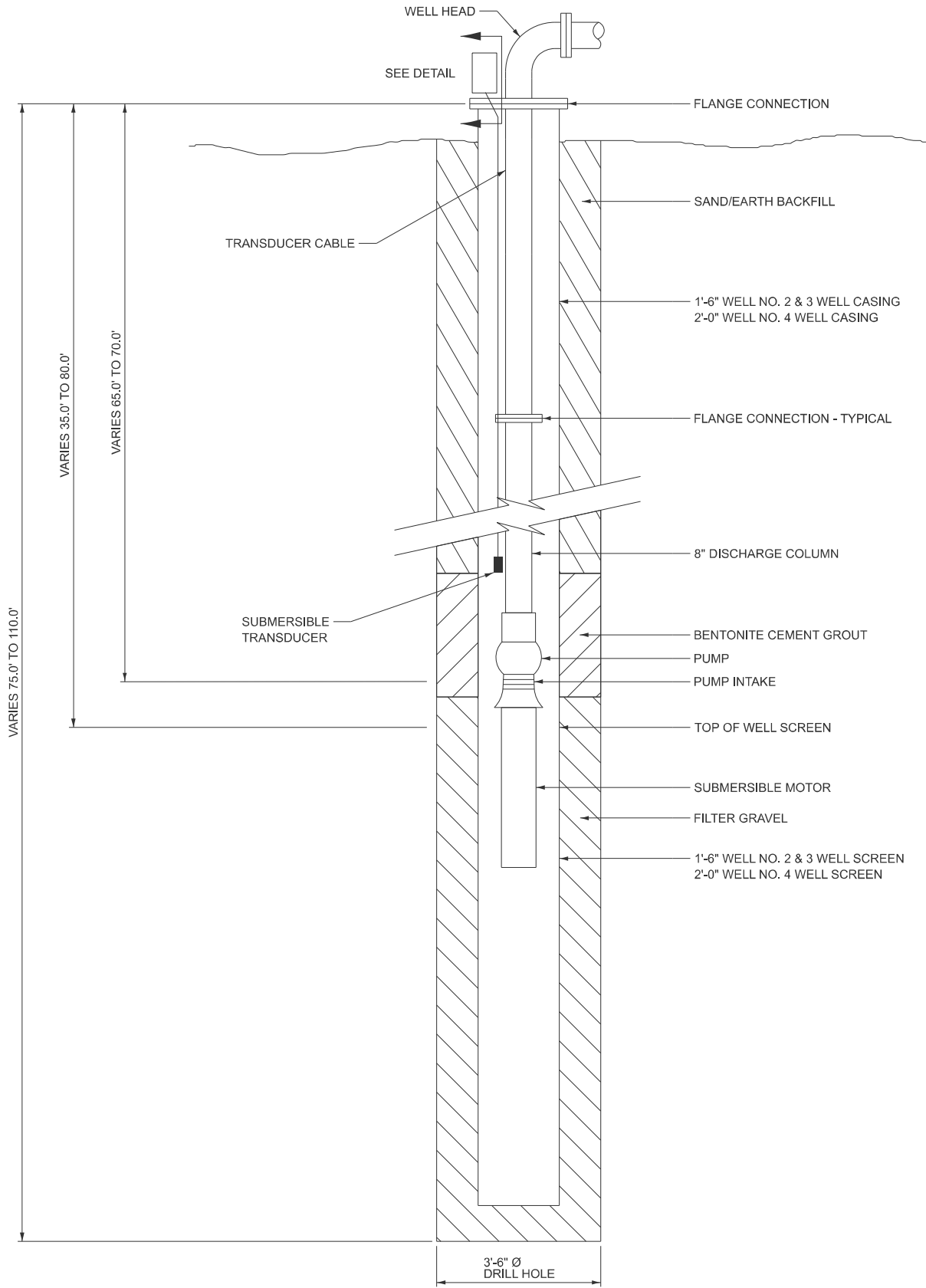
	USER NAME = sbremer		DESIGNED - LDP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LOCATION NO. 4: SITE PLAN MISSOURI AVENUE WELLS				F&I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			DRAWN - SJB	REVISED -		VARIES	DIST 8 DEEP WELLS 2026-1	*	10	7				
			CHECKED - JAG	REVISED -		CONTRACT NO. 76U88								
	PLOT DATE = 10/7/2025		DATE - 10/7/2025	REVISED -		SCALE:		SHEET 7	OF 10	SHEETS	STA.	TO STA.		ILLINOIS FED. AID PROJECT

* ST. CLAIR AND MADISON

MODEL: Location No. 1 and 3
FILE NAME: P:\14312\11\TO_07 Deep Well Treatment\Drawg\0876\U88-sh-headr-01.dgn



WELL HEAD DETAIL



EXISTING



USER NAME = sbremer	DESIGNED - LDP	REVISED -
	DRAWN - SJB	REVISED -
	CHECKED - JAG	REVISED -
PLOT DATE = 10/7/2025	DATE - 10/7/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION NO. 1, 3:
TYPICAL WELL DETAILS

SCALE: SHEET 8 OF 10 SHEETS STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	DIST 8 DEEP WELLS 2026-1	*	10	8
CONTRACT NO. 76U88				
ILLINOIS FED. AID PROJECT				

* ST. CLAIR AND MADISON

MODEL: Location No. 2
FILE NAME: P:\14312a\1\TO_07 Deep Well Treatment\Drawg\0876\U88-shr-ale-02.dgn



USER NAME = sbremer	DESIGNED - LDP	REVISED -
	DRAWN - SJB	REVISED -
	CHECKED - JAG	REVISED -
PLOT DATE = 10/7/2025	DATE - 10/7/2025	REVISED -

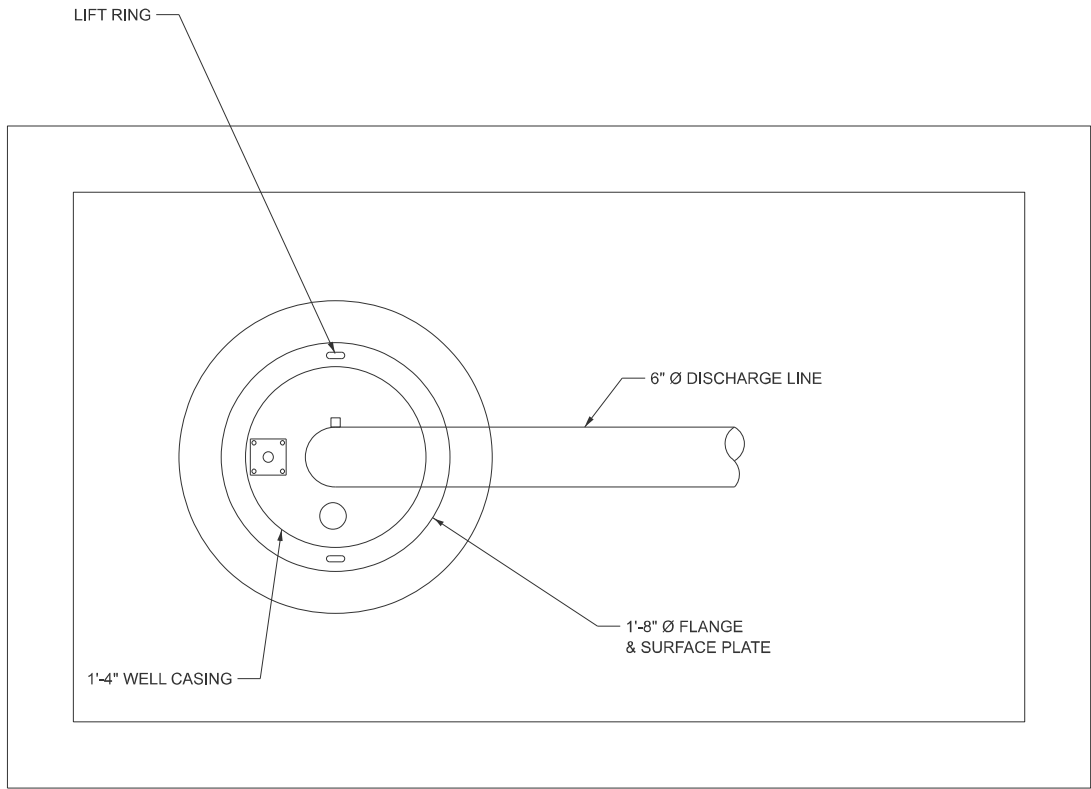
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION NO. 2:
TYPICAL WELL DETAILS

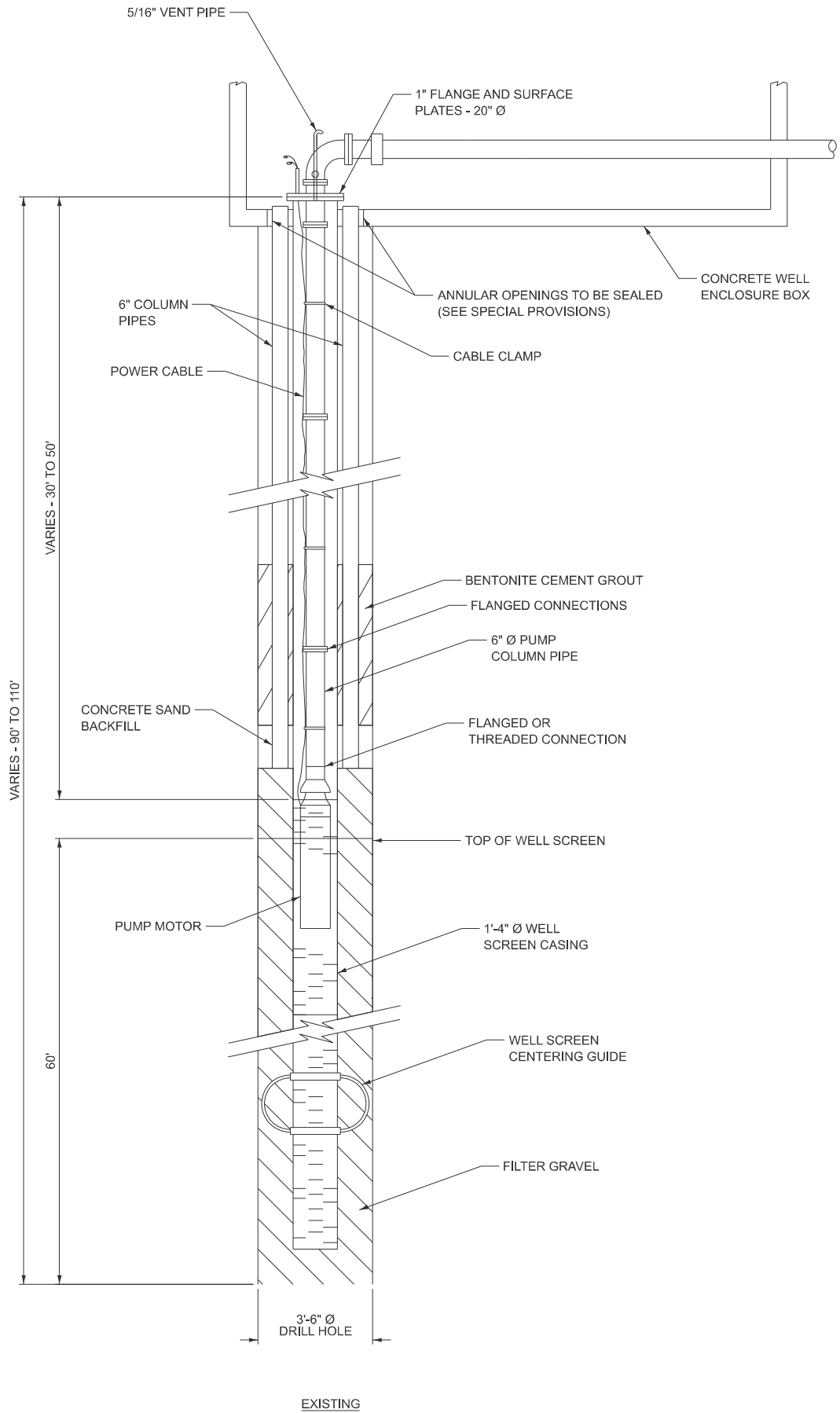
SCALE: SHEET 9 OF 10 SHEETS STA. TO STA.

* ST. CLAIR AND MADISON

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	DIST 8 DEEP WELLS 2026-1	*	10	9
CONTRACT NO. 76U88				
ILLINOIS FED. AID PROJECT				

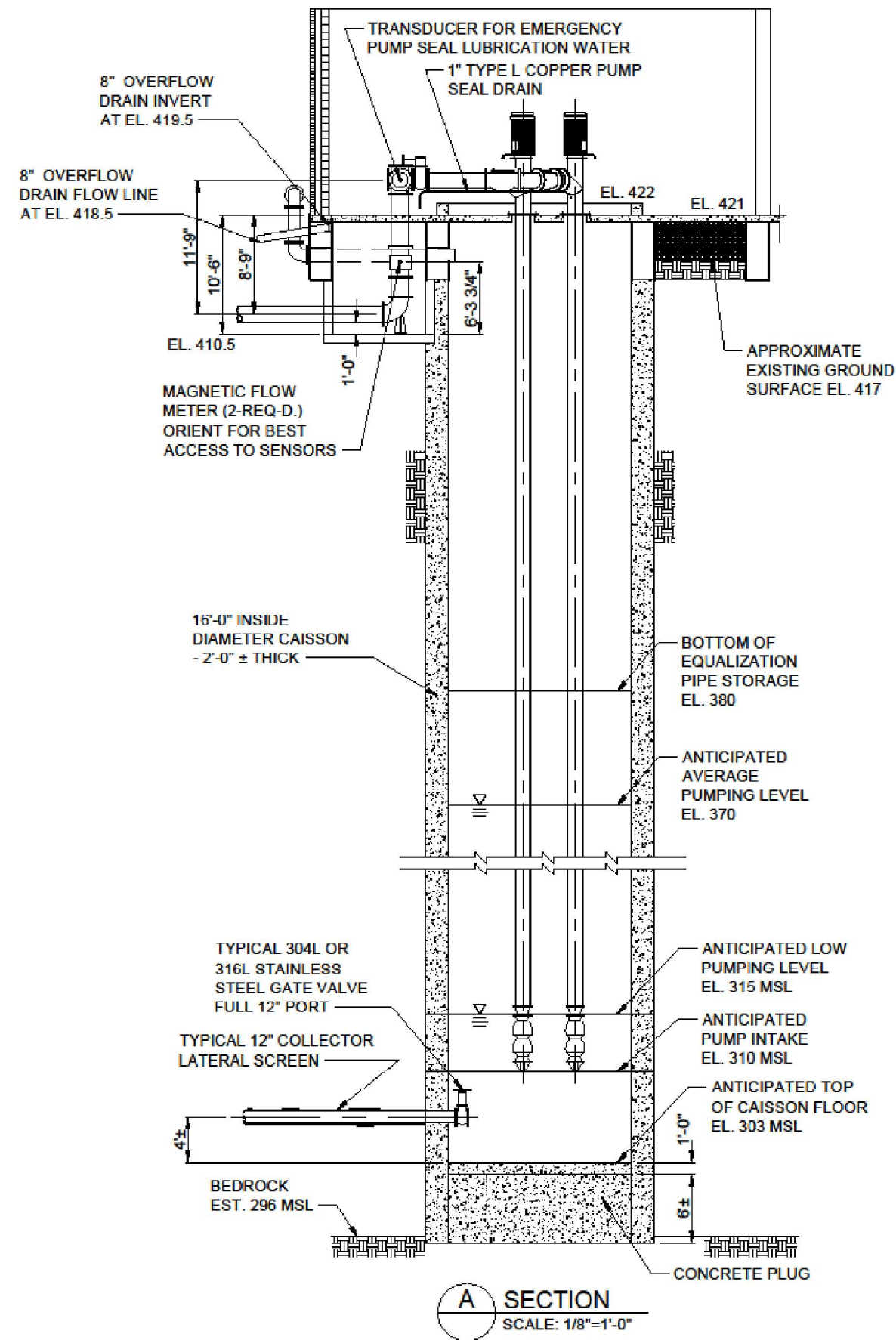


WELL HEAD DETAIL



EXISTING

MODEL: Location No. 4
FILE NAME: P:\14312\h1TO_07 Deep Well Treatment\Drawg\0876U88-shh-ale-03.dgn



USER NAME = sbremer	DESIGNED - LDP	REVISED -
	DRAWN - SJB	REVISED -
	CHECKED - JAG	REVISED -
PLOT DATE = 10/7/2025	DATE - 10/7/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION NO. 4:
MISSOURI AVENUE COLLECTOR WELL - CAISSON DETAILS

SCALE: SHEET 10 OF 10 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIES	DIST 8 DEEP WELLS 2026-1	*	10	10
CONTRACT NO. 76U88				
ILLINOIS FED. AID PROJECT				

* ST. CLAIR AND MADISON