

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FAI RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	DIST 8 ELECTRICAL 2026-1	*	8	1
* = VARIOUS		ILLINOIS	CONTRACT NO. 76U89	

INDEX OF SHEETS:

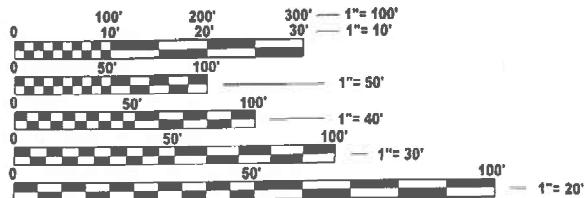
- 1 COVER SHEET AND STANDARDS
- 2 STATE HIGHWAY STANDARDS, GENERAL NOTES, AND COMMITMENTS
- 3 SUMMARY OF QUANTITIES
- 4 MECHANICAL SECTIONS
- 5 MECHANICAL SECTIONS
- 6 PUMP STATION SWITCHGEAR ONE LINE DIAGRAM & ELEVATION



Jeffrey A. Gratzner
10/02/25

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

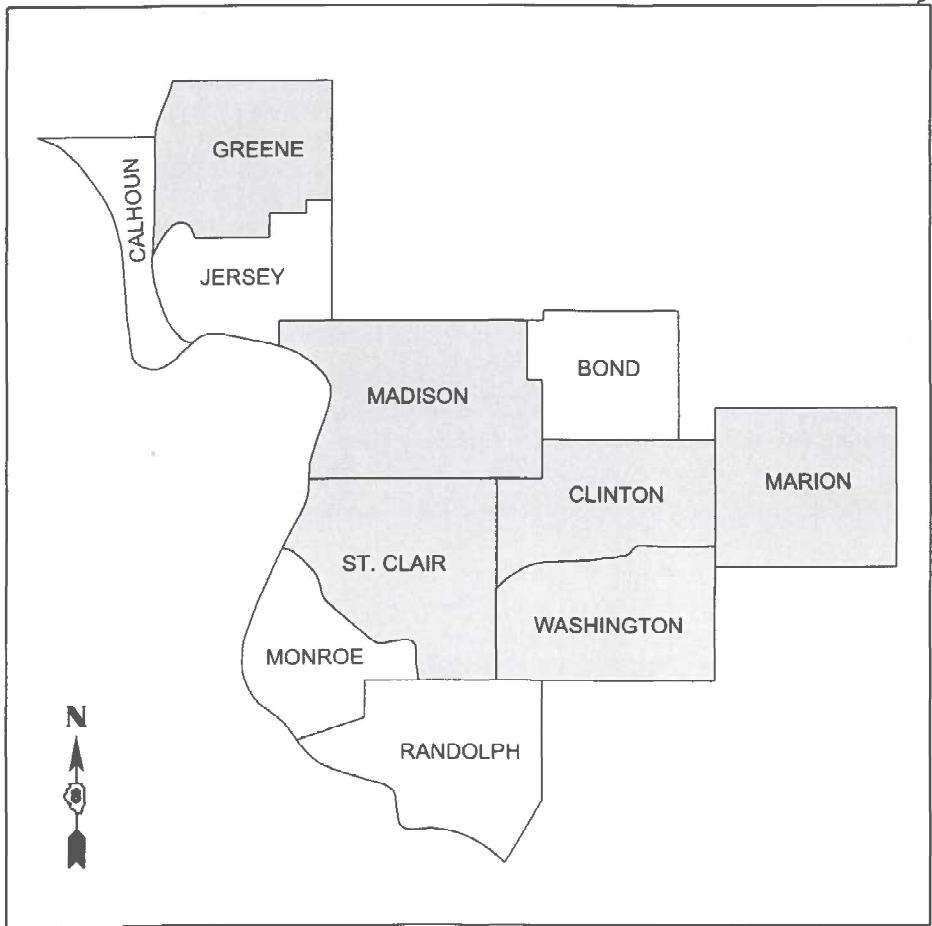
PROJECT ENGINEER: CHERYL KEPLAR
PROJECT MANAGER: RICHARD BARBEE

CONTRACT NO. 76U89

PROPOSED
HIGHWAY PLANS

FAI ROUTE (VARIES)
SECTION DIST 8 ELECTRICAL 2026-1
REPAIR & MAINTENANCE OF ELECTRICAL
EQUIPMENT AT PUMP STATIONS
VARIOUS COUNTIES

C-98-153-25



NOTE: WORK CAN BE LOCATED WITHIN ANY OF THE ABOVE
NOTED COUNTIES WITHIN DISTRICT 8 / REGION 5.

D-98-085-25



PLANS PREPARED BY:

DONOHUE

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED *Dec 9 2025*
[Signature] REGIONAL ENGINEER
December 5, 2025
[Signature] ENGINEER OF DESIGN AND ENVIRONMENT
December 5, 2025
[Signature] DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

STATE HIGHWAY STANDARDS

000001-09
001006
701001-02
701006-05
701106-02
701301-04
701400-10
701401-12
701601-09
701901-11

GENERAL NOTES

1. THE LOCATIONS OF THE REPAIR AREAS SHALL BE DETERMINED BY THE ENGINEER/DEPARTMENT.
2. NO MATERIAL SHALL BE LEFT ON OR NEAR THE ROADWAY DURING NON-WORKING HOURS.
3. ANY NECESSARY TRAFFIC CONTROL WILL BE PROVIDED BY THE CONTRACTOR. APPROPRIATE STANDARDS LISTED UNDER "STATE HIGHWAY STANDARDS".
4. A FLAGGER SHALL BE REQUIRED AT ALL TIMES WHEN WORKERS OR EQUIPMENT ARE ENCROACHING ON THE LANE OF TRAFFIC.
5. WHEN NO WORK IS BEING PERFORMED, THE FLAGGERS WILL NOT BE REQUIRED, IF THE FLAGGERS ARE NOT PRESENT, THE FLAGGER SIGNS SHALL BE REMOVED OR COVERED.
6. 45 AND 55 MPH SIGNS ARE INCLUDED IN ALL INTERSTATE LANE CLOSURES. IF THE LANE CLOSURE DURATION IS LESS THAN 4 HOURS, THE 45 AND 55 MPH SIGNS ARE NOT REQUIRED.
7. ANY WORK ORDER MAY BE CANCELLED AT THE ENGINEER'S/DEPARTMENT'S DISCRETION.
8. NO OVERNIGHT LANE CLOSURES WILL BE ALLOWED.

COMMITMENTS

1. NONE

MODEL: General Notes
FILE NAME: P:\11312a\11TO_02 General 2Dwg\1Pump Electrical Maintenance\0876J89-sh1-gennode.dgn

REV - MS

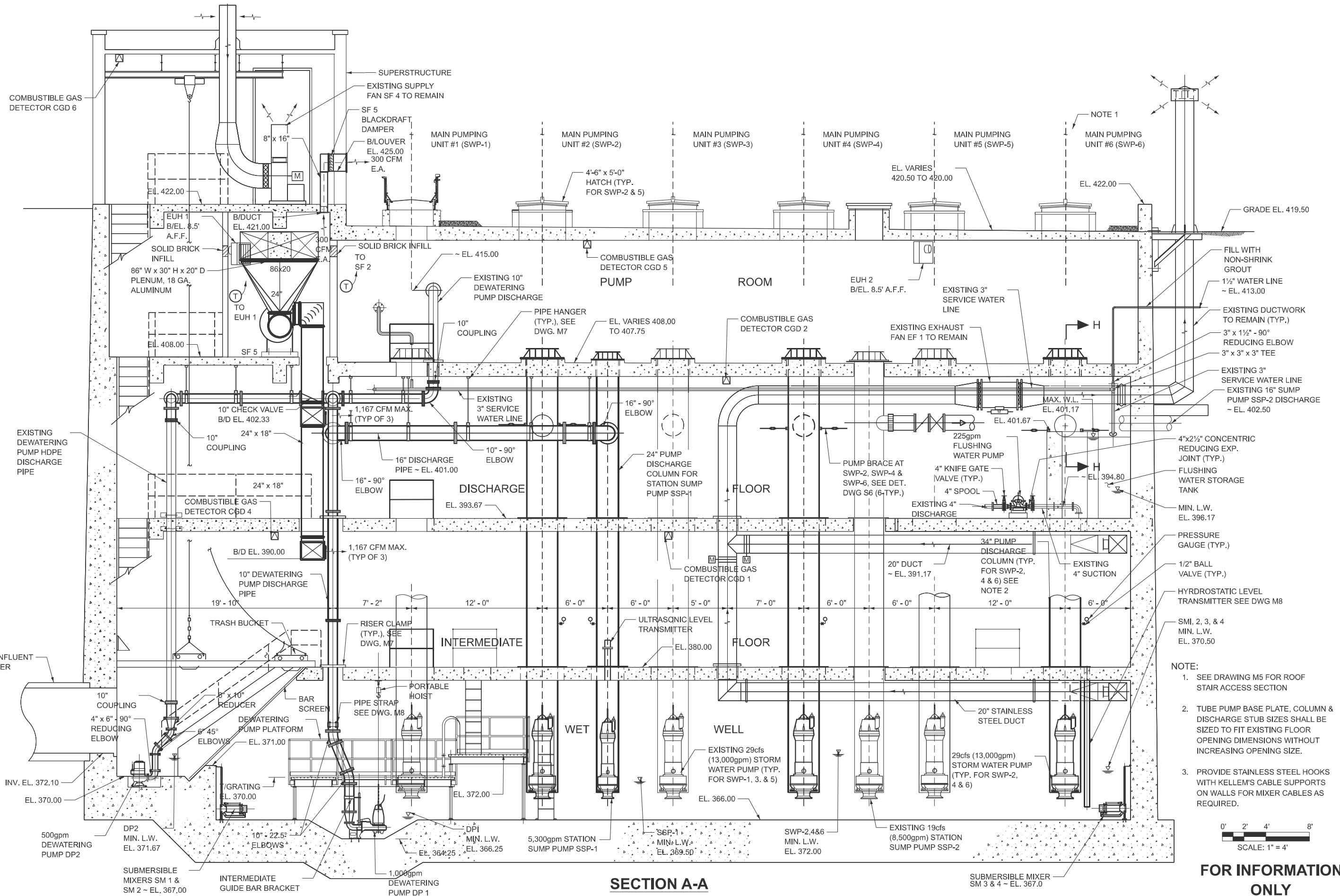
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		CHECKED - JAG	REVISED -					* = VARIOUS		CONTRACT NO. 76U89			
	PLOT DATE = 10/2/2025	DATE - 10/2/2025	REVISED -					SCALE:	SHEET 2	OF 6	SHEETS	STA.	TO STA.
								ILLINOIS FED. AID PROJECT					

MODEL: SQO
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REV - MS

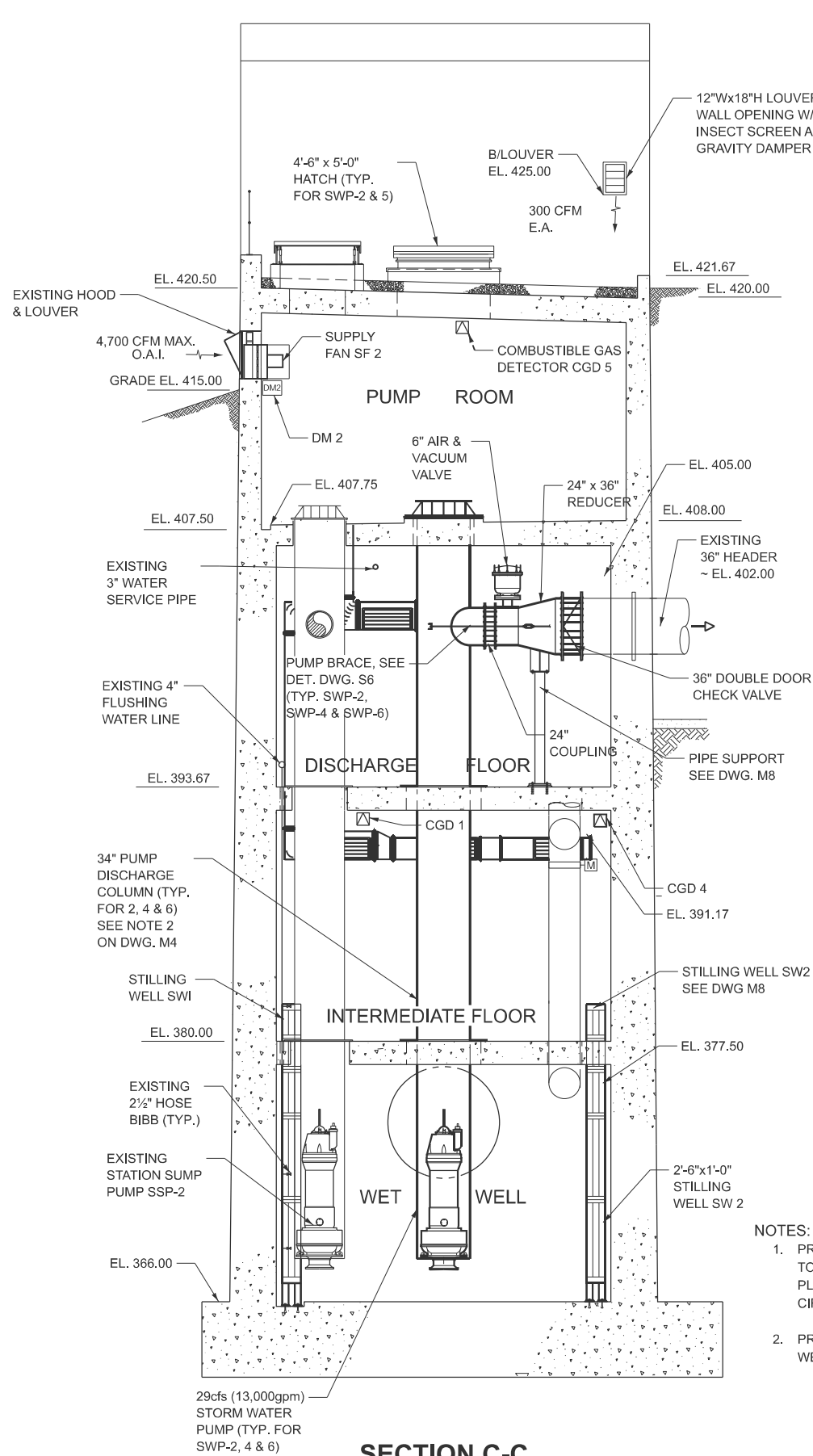
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				100% STATE
				NONE
				0043
				URBAN
X0327020	SUBMERSIBLE MIXER	EACH	2	2
X0327111	MAGNUM BREAKER	EACH	2	2
X0327495	JOURNEYMAN ELECTRICIAN	HO	350	350
X0327496	APPRENTICE ELECTRICIAN	HO	350	350
X0327497	PICK-UP TRUCK	HO	350	350
X0327498	BUCKET TRUCK (LENGTH LESS THAN 35 FEET)	HO	350	350
X0327499	BUCKET TRUCK (LENGTH 35 TO 65 FEET)	HO	75	75
X0327734	TRUCK CRANE	HO	25	25

MODEL: Mechanical Sections
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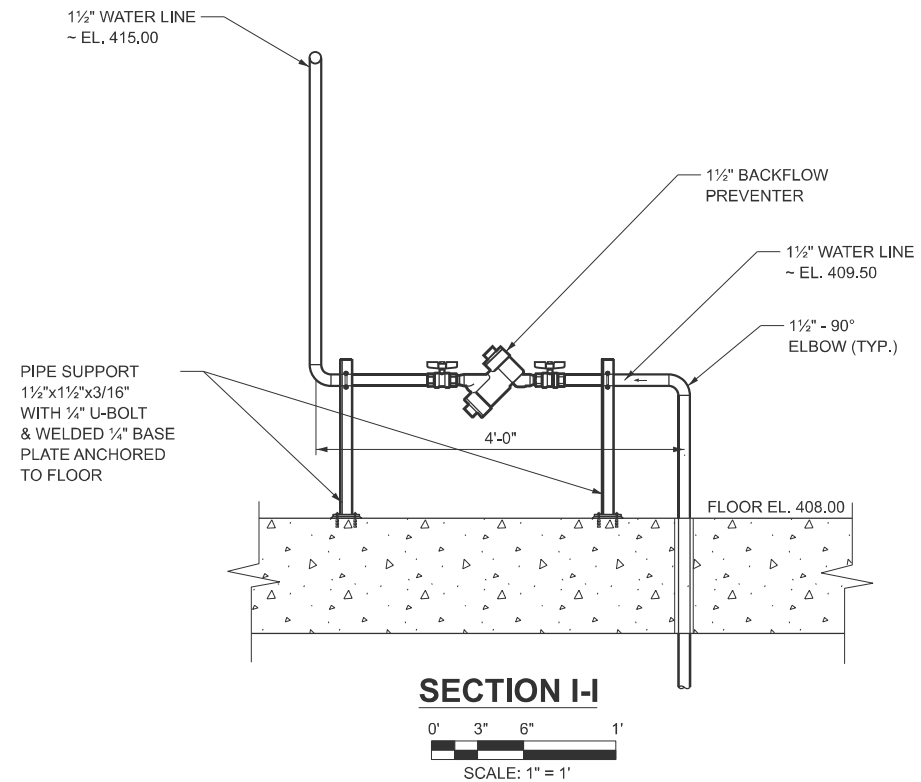


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			CHECKED - JAG	REVISED -							* = VARIOUS					CONTRACT NO. 76U89		
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			SCALE:						SHEET 4 OF 6 SHEETS							STA. TO STA.		

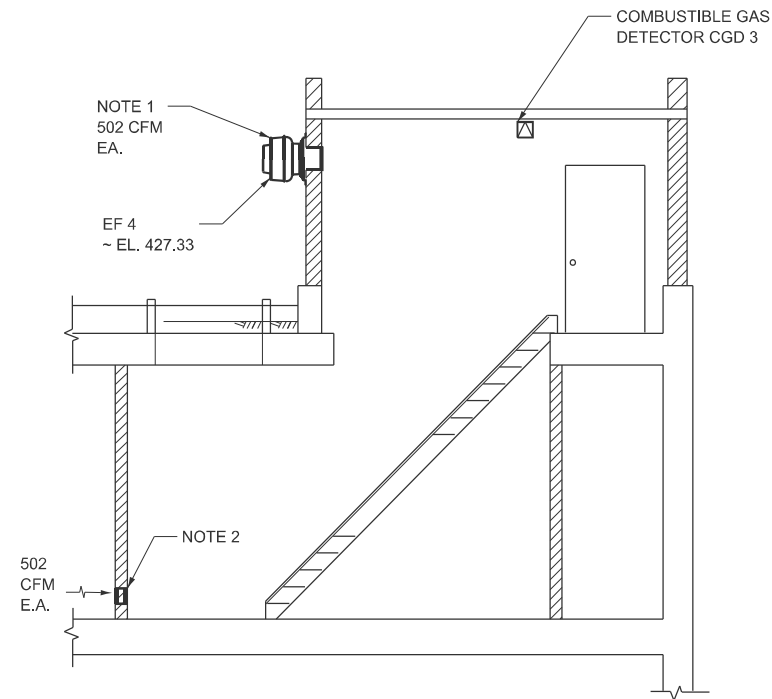
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SECTION C-C



SECTION I-I



SECTION J-J

NOTES:

1. PROVIDE 10 GA. ALUMINUM MOUNTING PLATE TO MATCH FAN MOUNTING BOLTING PATTERN. PLATE W X H TO BE MINIMUM OF BOLTING CIRCLE DIA. PLUS 4".
2. PROVIDE 16"W x 8"H, 1/2" x 1/2" 10 GA. ALUM. SCREEN WELDED ALUMINUM GRILLE W/FLANGES (BOTH SIDES)

FOR INFORMATION
ONLY



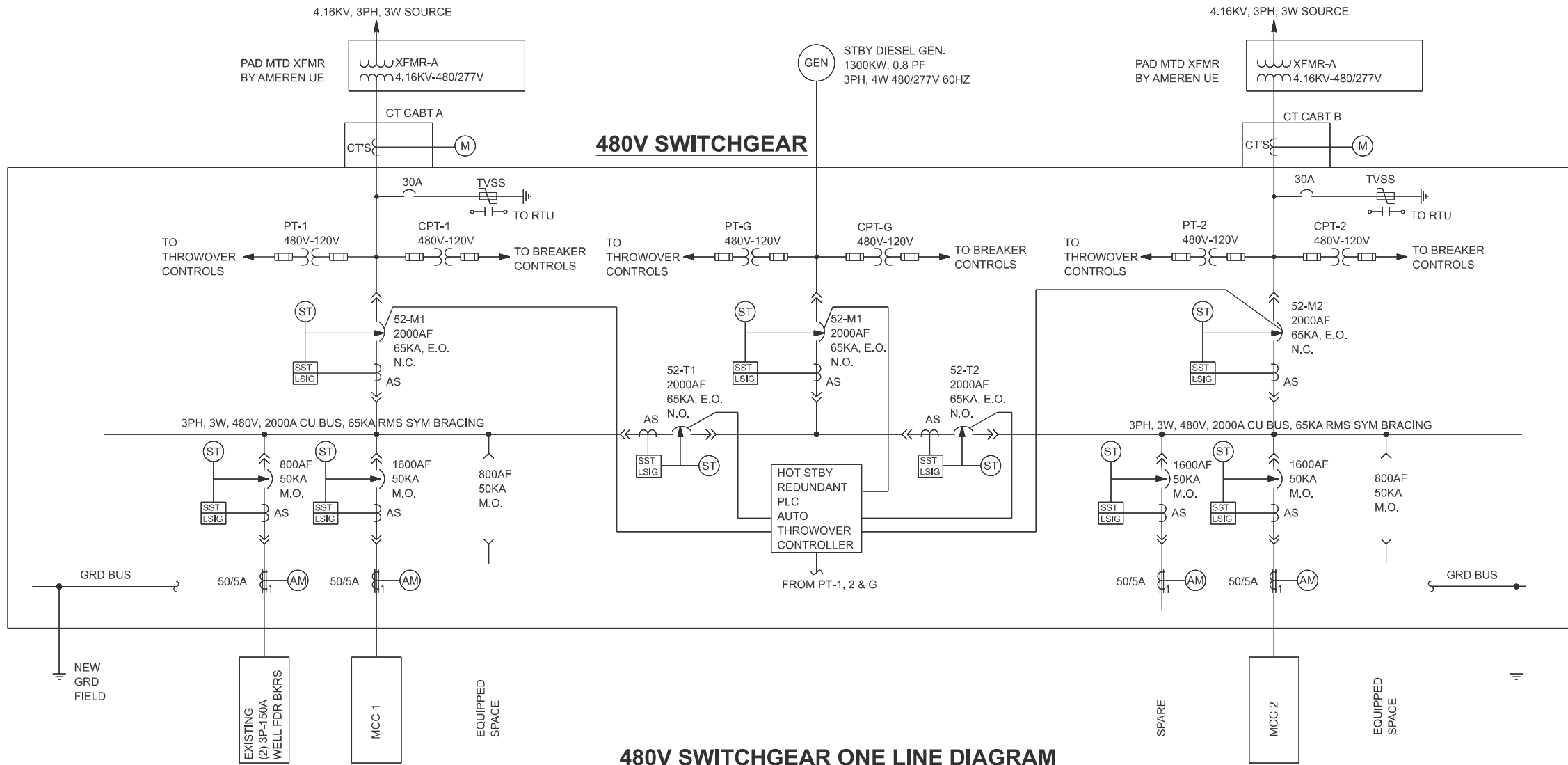
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PLOT DATE = 10/2/2025	DATE - 10/2/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MECHANICAL SECTIONS

SCALE: SHEET 5 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	DIST 8 ELECTRICAL 2026-1	*	6	5
* = VARIOUS		CONTRACT NO. 76U89		
ILLINOIS		FED. AID PROJECT		

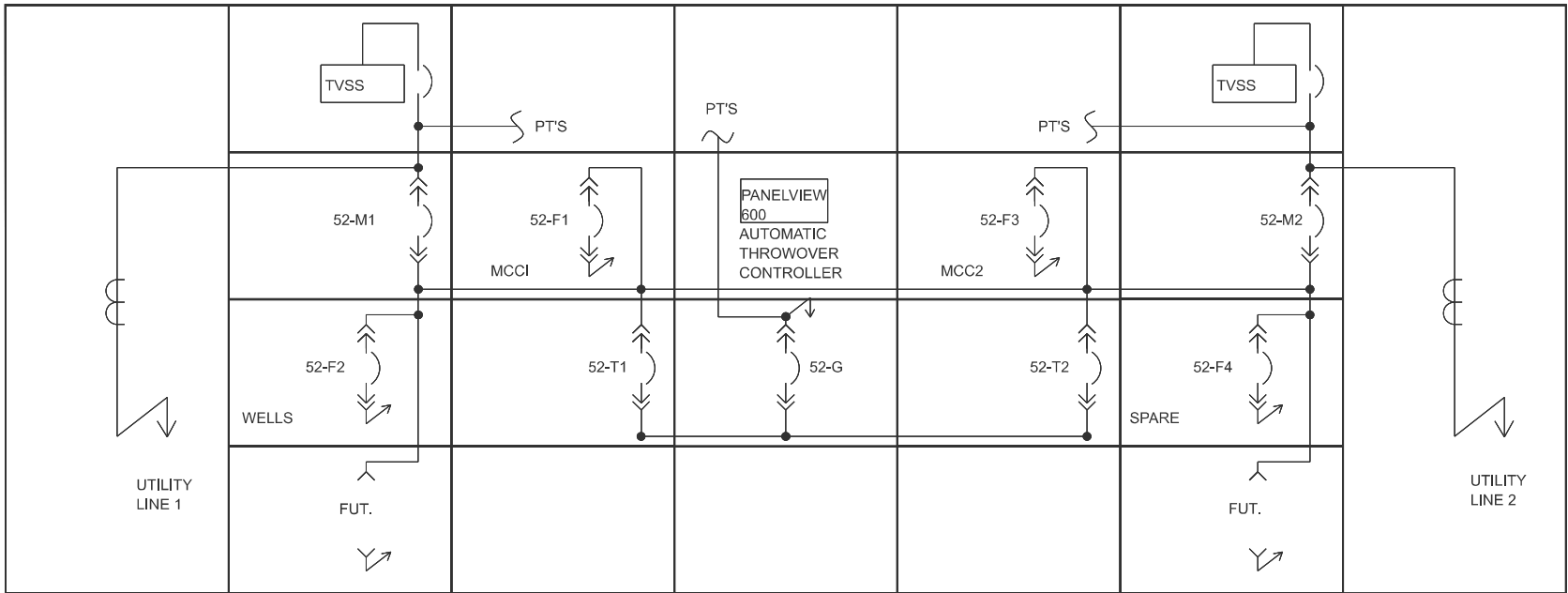


LEGEND:

- AS CURRENT SENSOR
CT CURRENT TRANSFORMER
EO ELECTRIC OPERATOR
MO MANUALLY OPERATED
MCCB MOLDED CASE CIRCUIT BREAKER
PT POTENTIAL TRANSFORMER
CPT CONTROL POWER TRANSFORMER
CLF INDICATES CURRENT LIMITING TYPE
HIGH VOLTAGE CABLE LOAD BREAK CONNECTOR
FUSE
DRAW OUT TYPE LOW VOLTAGE POWER CIRCUIT BREAKER WITH BUILT-IN CURRENT SENSOR
SST LSIG SOLID STATE TRIP DEVICE
LOWER LETTERS: L - LONG TIME DELAY
S - SHORT TIME DELAY
I - INSTANTANEOUS
G - GROUND FAULT
ST SHUNT TRIP
AM AMMETER

NOTES:

1. SPACE SHALL BE PREPARED TO ACCEPT A FUTURE BREAKER.
2. ALL BREAKERS SHALL HAVE DIGITRIP DT-1150, WITH SYSTEM COMMUNICATION.



480V SWITCHGEAR FRONT ELEVATION

FOR INFORMATION ONLY

MODEL: One Line Diagram
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		CHECKED - JAG	REVISED -									* = VARIOUS					CONTRACT NO. 76U89		
	PLOT DATE = 10/2/2025	DATE - 10/2/2025	REVISED -									ILLINOIS FED. AID PROJECT							