

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	DIST 8 ELECTRICAL 2021-1	-	6	1
*-VARIOUS		ILLINOIS	CONTRACT NO. 76M61	

INDEX OF SHEETS

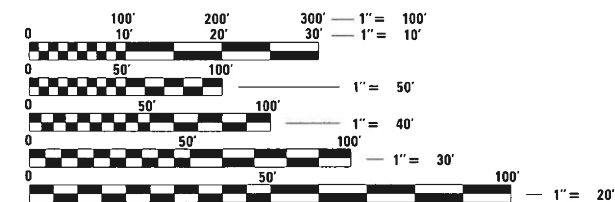
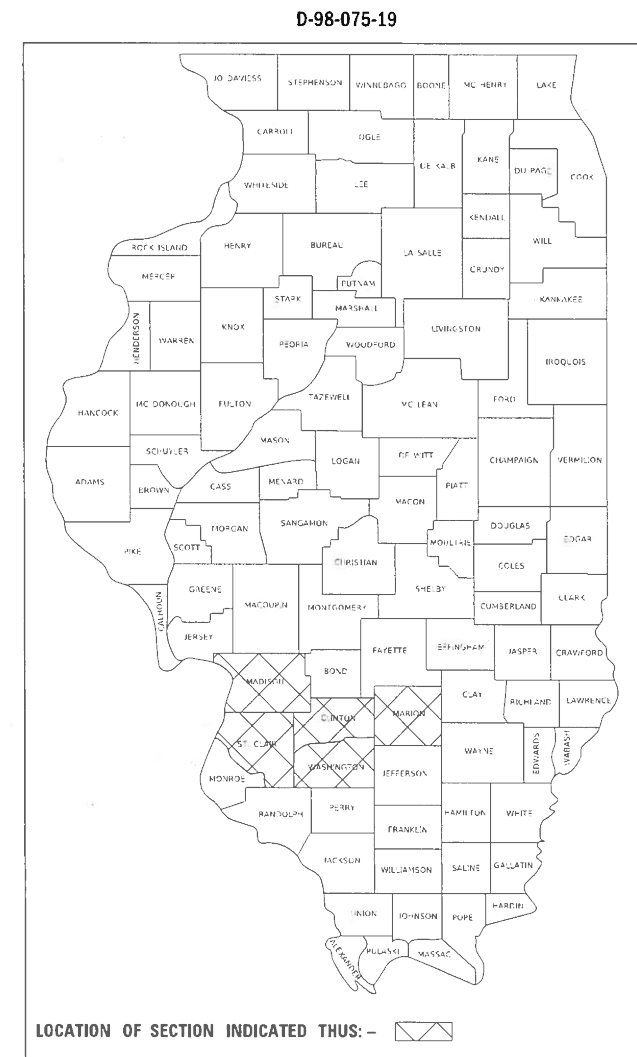
1. COVER SHEET
2. GENERAL NOTES AND TYPICAL WORK ORDER FORMS
3. SUMMARY OF QUANTITIES
- 4-6. MIXERS

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

**VARIOUS ROUTES
SECTION DIST 8 ELECTRICAL 2021-1
REPAIR & MAINTENANCE OF ELECTRICAL
EQUIPMENT AT PUMP STATIONS
VARIOUS COUNTIES**

C-98-094-19



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 EXCAVATORS
1-800-892-0123
OR 811

PROJECT ENGINEER: HERVE GELIN (618) 346-3179
PROJECT MANAGER: PHILLIP PETE SAWYER (618) 346-3275
SQUAD LEADER: MICHAEL PRESTON (618) 346-3143
CONTRACT NO. 76M61

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED *June 26, 2020*
Keith Roberts
REGIONAL ENGINEER

August 14, 2020
Scott A. Elk
ENGINEER OF DESIGN AND ENVIRONMENT

August 14, 2020
James J. [Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

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 ARE LISTED BELOW.
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 & 55 MPH SIGNS ARE INCLUDED IN ALL INTERSTATE LANE CLOSURES. IF THE LANE CLOSURE DURATION IS LESS THAN 4 HOURS, THE 45 & 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.

9. HIGHWAY STANDARDS

000001-07	701301-04
001006	701400-09
701001-02	701401-12
701006-05	701601-09
701106-02	701901-08



Work Order

Requested By: _____ **Date:** _____ **Time:** _____

Assigned To: _____ **Received From:** _____

Estimated Cost: _____

Location: _____

Problem:

Ref/Accident #: _____ **Claim #:** _____

Remarks:

Completed By: _____ **Date/Time Completed:** _____

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PLOT DATE = 6/10/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES
TYPICAL WORK ORDER FORM**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	DIST 8 ELECTRICAL 2021-1	*	6	2
* = VARIOUS			CONTRACT NO. 76M61	
ILLINOIS		FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				URBAN 0043
70100205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	2	2
70102631	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	EACH	2	2
X0327020	SUBMERSIBLE MIXER	EACH	1	1
X0327111	MAGNUM BREAKER	EACH	1	1
X0327495	JOURNEYMAN ELECTRICIAN	HOUR	250	250
X0327496	APPRENTICE ELECTRICIAN	HOUR	140	140
X0327497	PICK-UP TRUCK	HOUR	250	250
X0327498	BUCKET TRUCK (LENGTH LESS THAN 35 FEET)	HOUR	75	75
X0327499	BUCKET TRUCK (LENGTH 35 TO 65 FEET)	HOUR	75	75
X0327500	ARROWBOARD (TRAILER MOUNTED)	HOUR	25	25
X0327501	ATTENUATOR, CRASH (TRUCK MOUNTED)	HOUR	25	25
X0327734	TRUCK CRANE	HOUR	25	25

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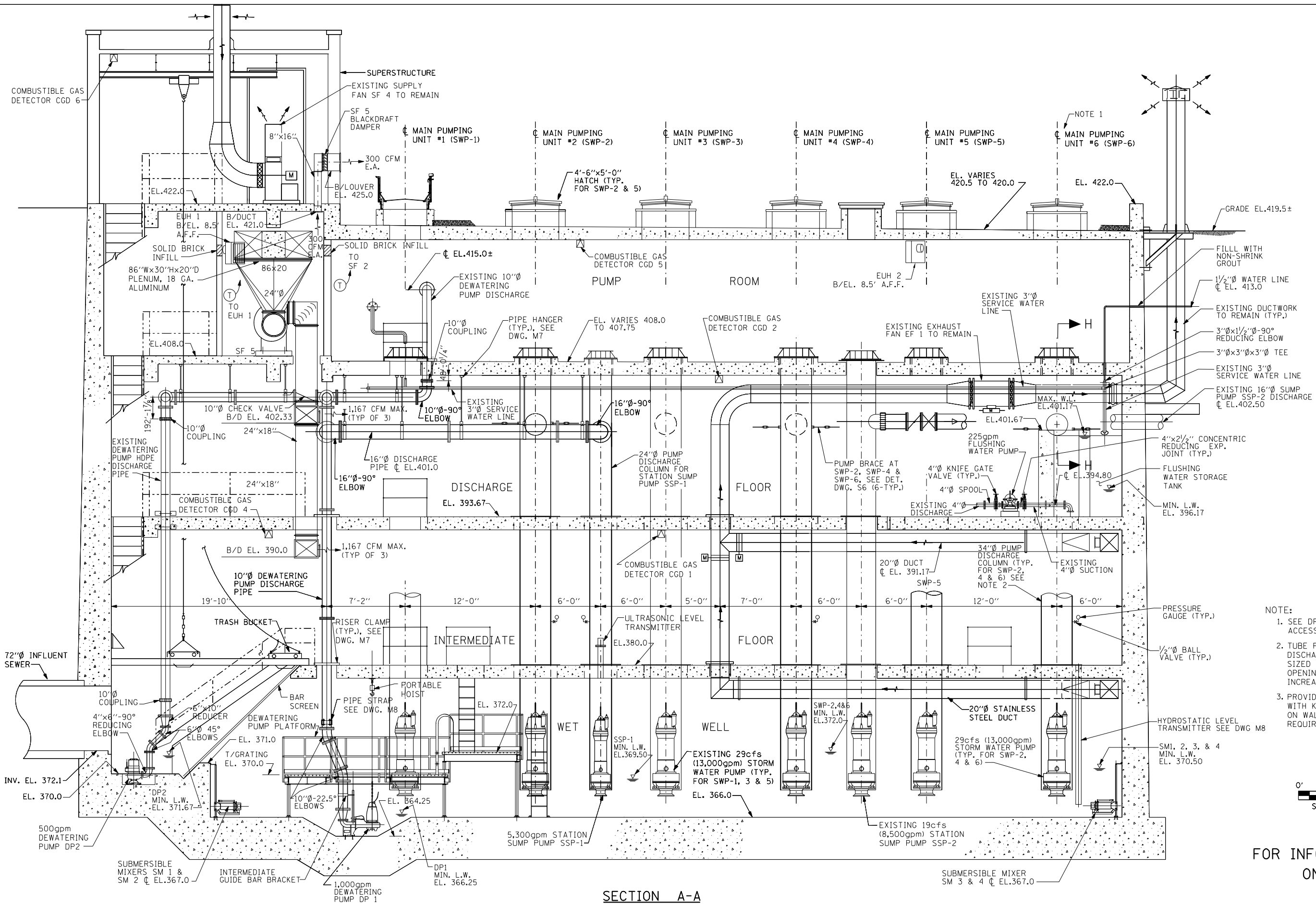
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PLOT DATE = 6/10/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

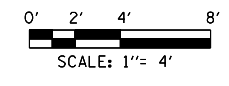
SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	DIST 8 ELECTRICAL 2021-1	*	6	3
* = VARIOUS			CONTRACT NO. 76M61	
ILLINOIS		FED. AID PROJECT		



- NOTE:**
1. SEE DRAWING M5 FOR ROOF STAIR ACCESS SECTION
 2. TUBE PUMP BASE PLATE, COLUMN & DISCHARGE STUB SIZES SHALL BE SIZED TO FIT EXISTING FLOOR OPENING DIMENSIONS WITHOUT INCREASING OPENING SIZE.
 3. PROVIDE STAINLESS STEEL HOOKS WITH KELLEM'S CABLE SUPPORTS ON WALLS FOR MIXER CABLES AS REQUIRED.



SECTION A-A

FOR INFORMATION ONLY

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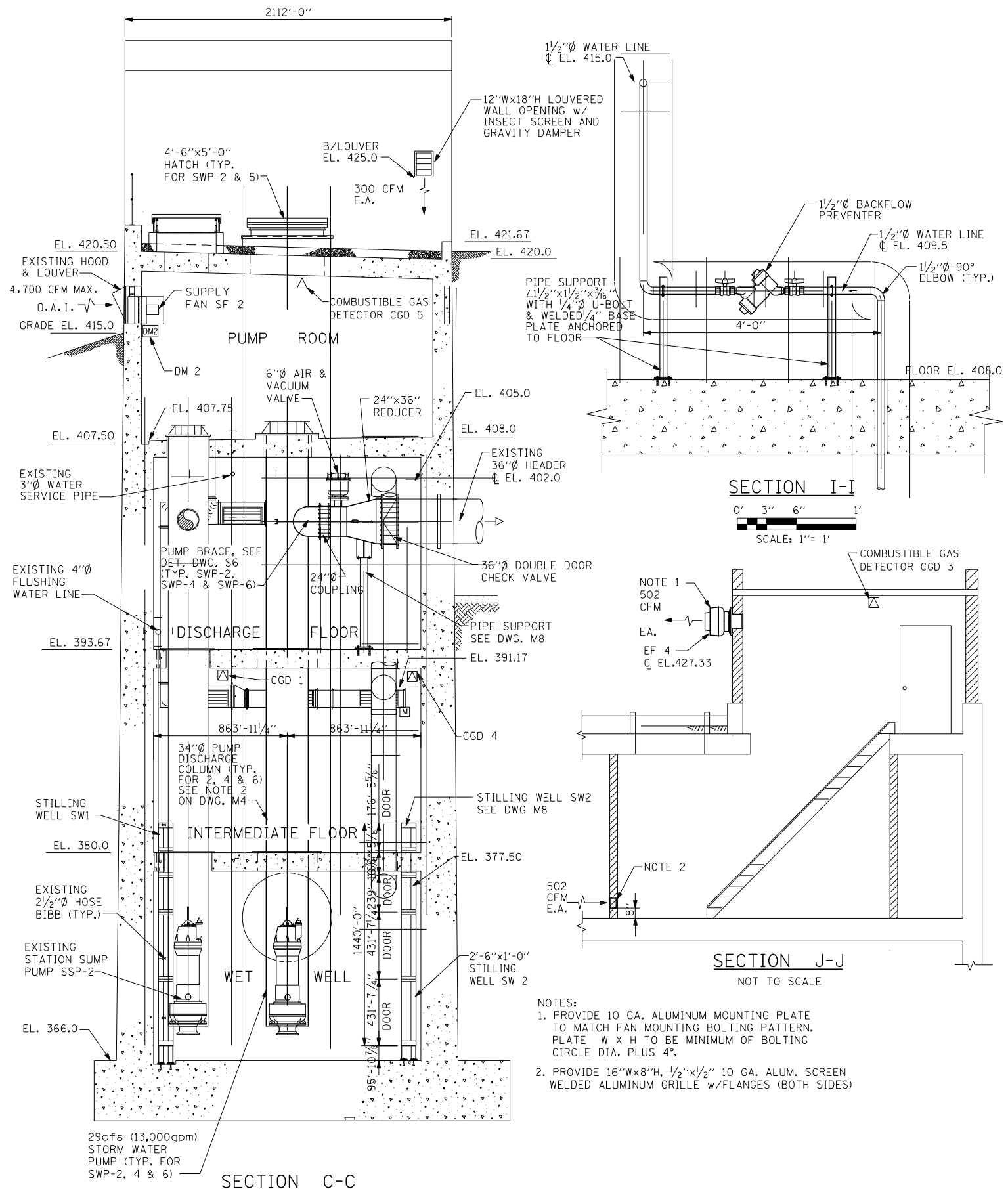
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MECHANICAL SECTIONS

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	DIST 8 ELECTRICAL 2021-1	*	6	4
*VARIOUS			CONTRACT NO. 76M61	
	ILLINOIS	FED. AID PROJECT		



NOTE 1
502 CFM
EA.
EF 4
EL. 427.33

NOTE 2

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"Wx8"H, 1/2"x1/2" 10 GA. ALUM. SCREEN WELDED ALUMINUM GRILLE w/FLANGES (BOTH SIDES)

FOR INFORMATION ONLY

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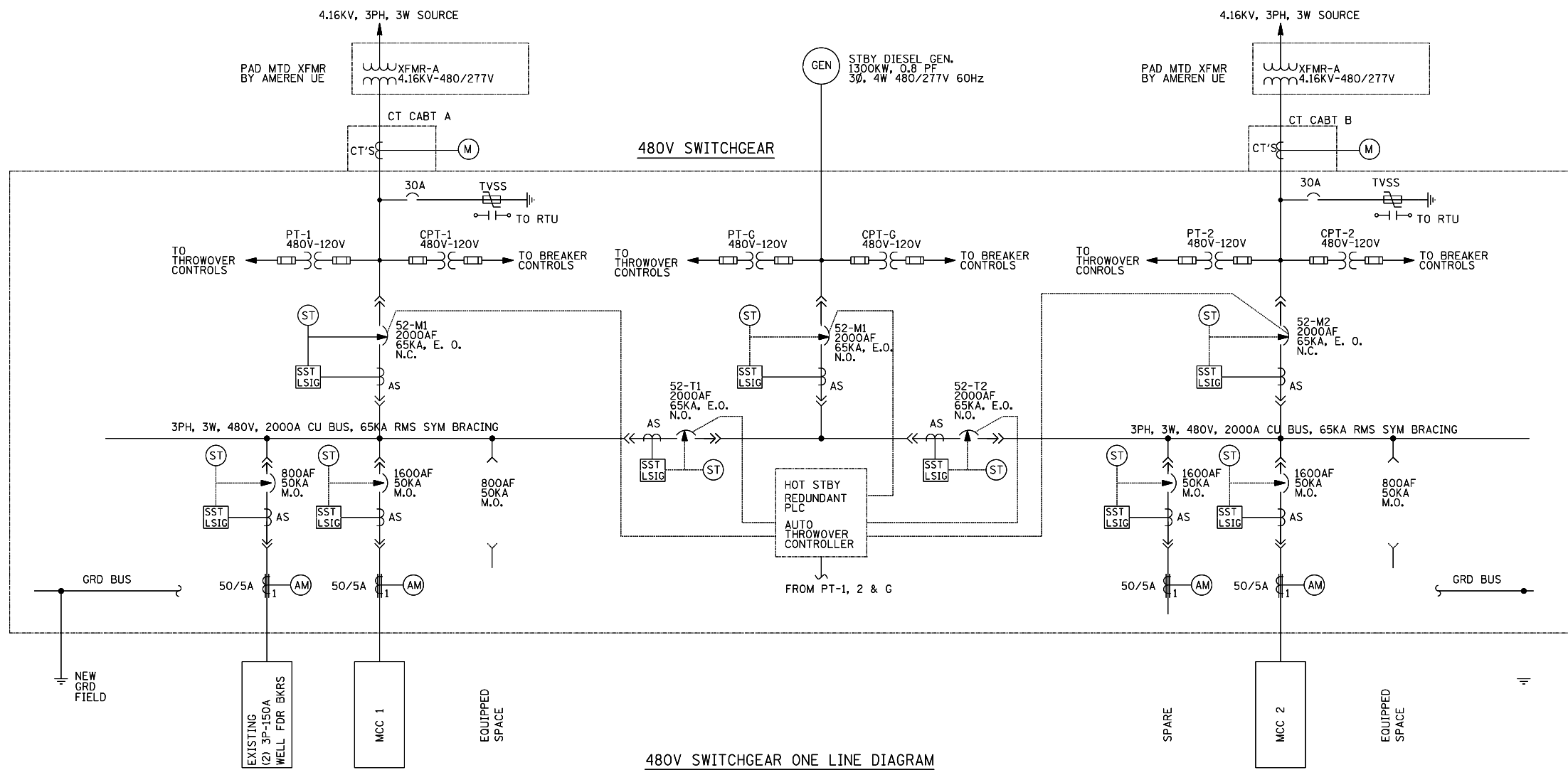
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PLOT SCALE = 814.7909' / in.	CHECKED -	REVISED -
PLOT DATE = 6/10/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MECHANICAL SECTIONS

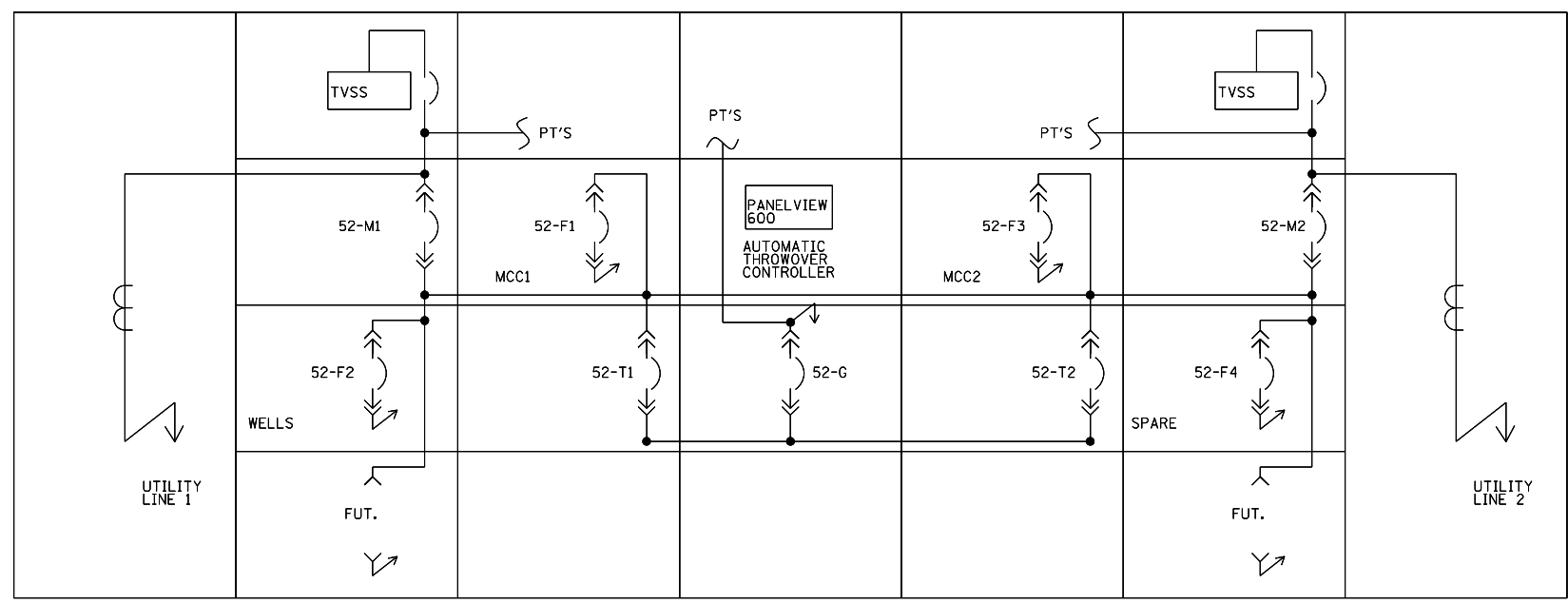
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	DIST 8 ELECTRICAL 2021-1	*	6	5
* = VARIOUS			CONTRACT NO. 76M61	
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
 - ⊞ AS SOLID STATE TRIP DEVICE
 - LOWER LETTERS: L - LONG TIME DELAY
S - SHORT TIME DELAY
I - INSTANTANEOUS
G - GROUND FAULT
 - ⊞ SHUNT TRIP
 - ⊞ 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

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PLOT DATE = 6/10/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PUMP STATION SWITCHGEAR ONE
LINE DIAGRAM & ELEVATION

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	DIST 8 ELECTRICAL 2021-1	*	6	6
*VARIOUS		CONTRACT NO. 76M61		
ILLINOIS		FED. AID PROJECT		

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000001-07	701301-04
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701006-05	701601-09
701106-02	701901-08



Work Order

Requested By: _____ **Date:** _____ **Time:** _____

Assigned To: _____ **Received From:** _____

Estimated Cost: _____

Location: _____

Problem:

Ref/Accident #: _____ **Claim #:** _____

Remarks: _____

Completed By: _____ **Date/Time Completed:** _____

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES
TYPICAL WORK ORDER FORM**

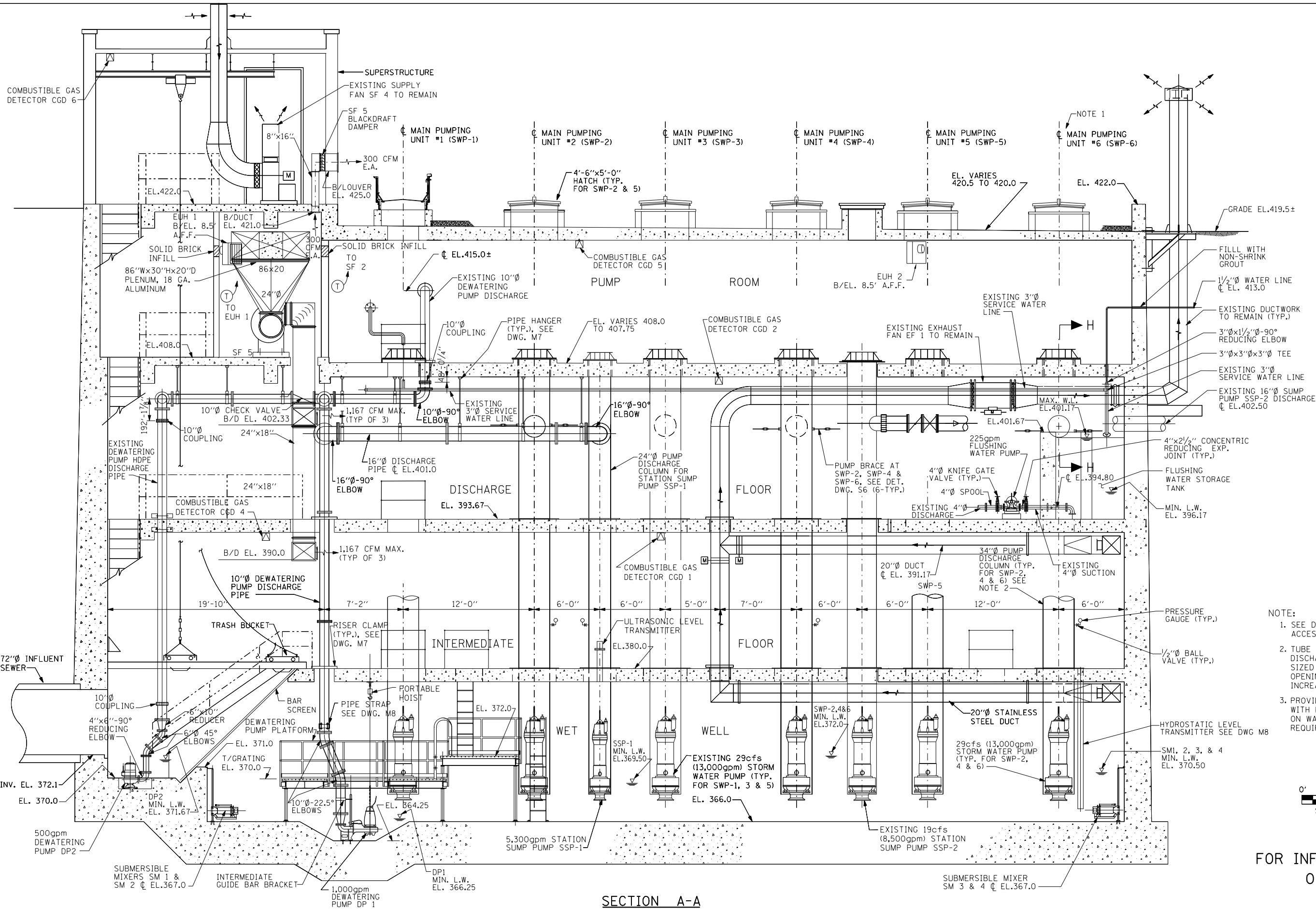
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		ILLINOIS	FED. AID PROJECT	

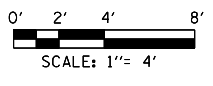
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X0327734	TRUCK CRANE	HOUR	25	25

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	DRAWN -	REVISED -						*	DIST 8 ELECTRICAL 2021-1	*	6	3
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -						* = VARIOUS			CONTRACT NO. 76M61	
PLOT DATE = 6/10/2020	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT	



- NOTE:**
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FOR INFORMATION ONLY

SECTION A-A

USER NAME = prestonme	DESIGNED -	REVISED -
PLOT SCALE = 814.7909' / in.	DRAWN -	REVISED -
PLOT DATE = 6/10/2020	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

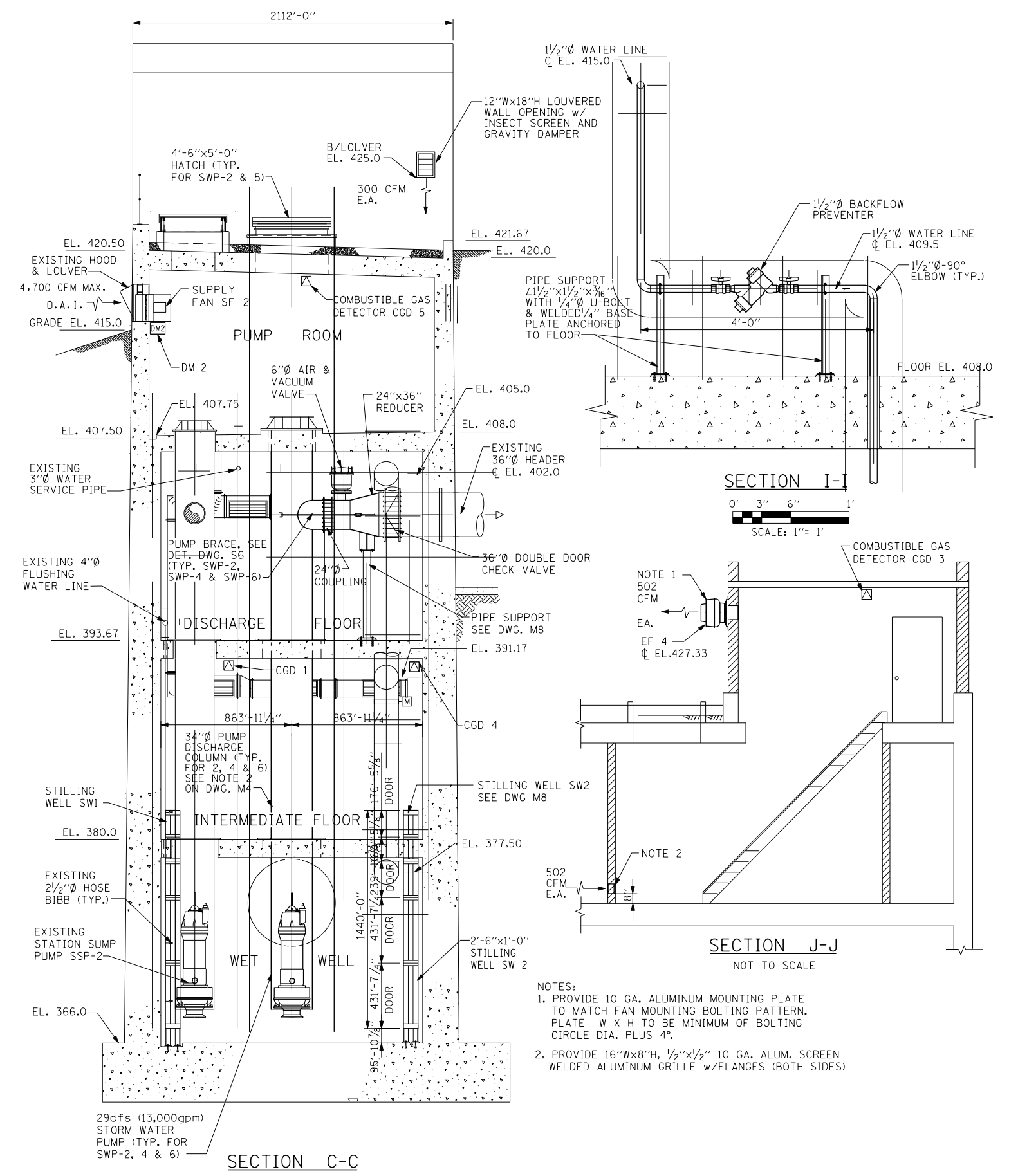
MECHANICAL SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DIST 8 ELECTRICAL 2021-1	*	6	4
	*VARIOUS		CONTRACT NO. 76M61	
	ILLINOIS	FED. AID PROJECT		

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FOR INFORMATION ONLY

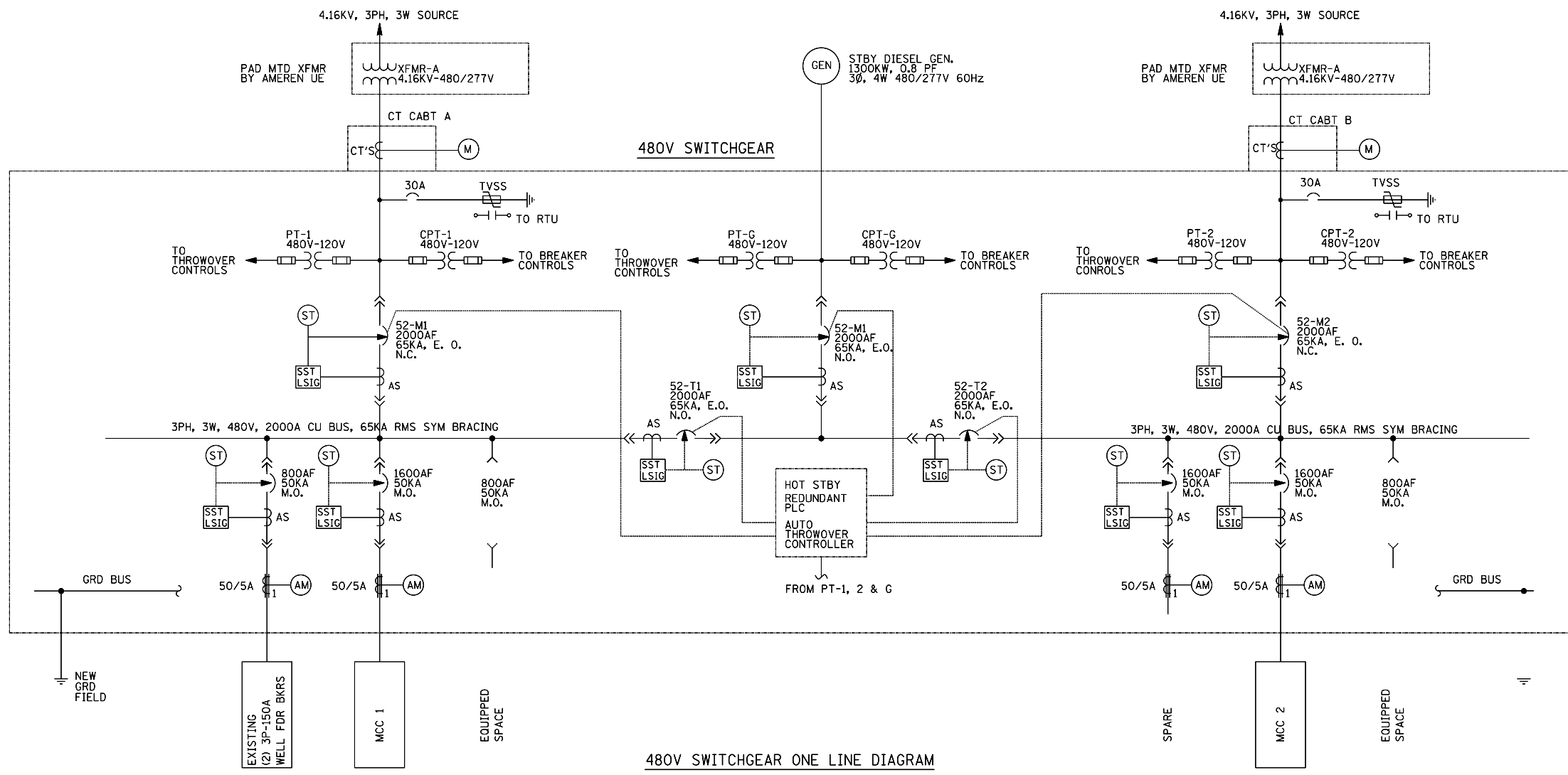
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MECHANICAL SECTIONS

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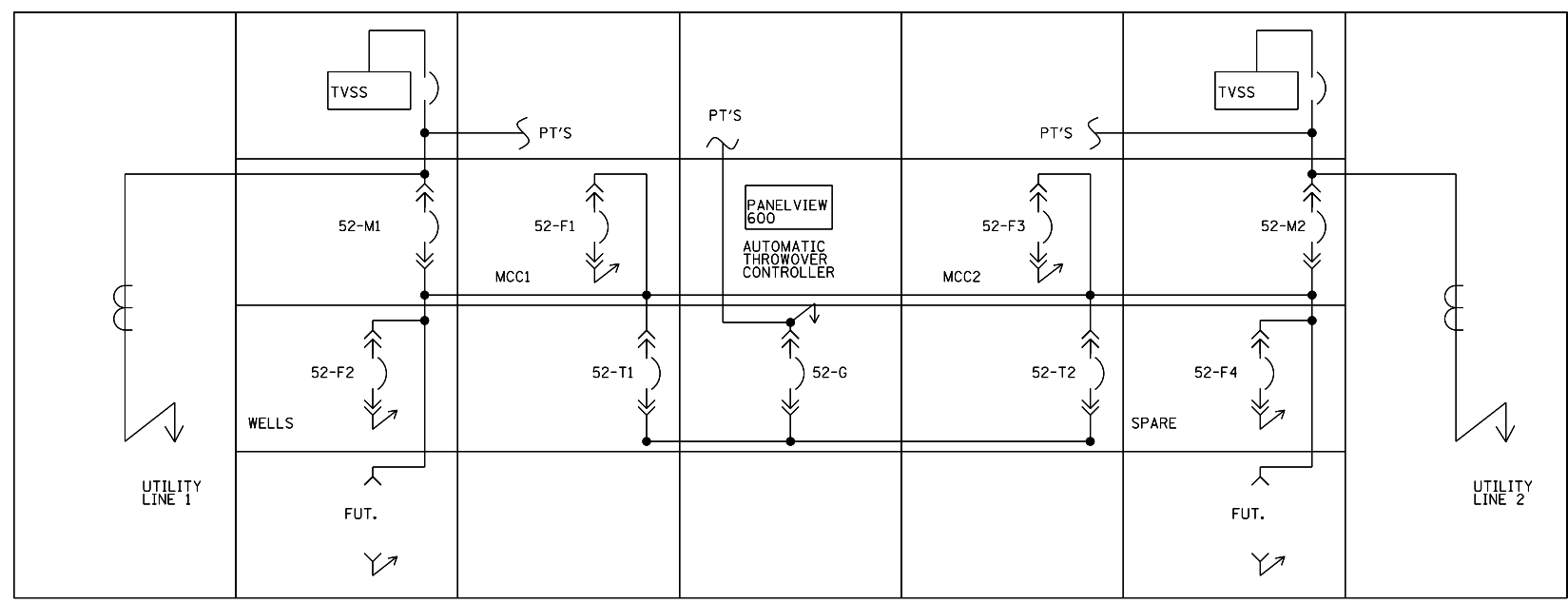
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480V SWITCHGEAR ONE LINE DIAGRAM

- 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
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I - INSTANTANEOUS
G - GROUND FAULT
 - (ST) SHUNT TRIP
 - (AM) AMMETER

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480V SWITCHGEAR FRONT ELEVATION

FOR INFORMATION ONLY

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PUMP STATION SWITCHGEAR ONE
LINE DIAGRAM & ELEVATION**

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	DIST 8 ELECTRICAL 2021-1	*	6	6
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ILLINOIS FED. AID PROJECT