



**GENERAL NOTES**

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE PRESENCE OF DEPARTMENT-OWNED UNDERGROUND ELECTRICAL CABLE WITHIN THE LIMITS OF THE PROPOSED IMPROVEMENT. THE CONTRACTOR SHALL REQUEST THE ILLINOIS DEPARTMENT OF TRANSPORTATION IN OTTAWA (815-434-8417) TO LOCATE THE UNDERGROUND FACILITIES, PROVIDING A MINIMUM OF 72 HOURS NOTICE. THE DEPARTMENT IS NOT A MEMBER OF THE JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS (JULIE) SYSTEM.

ALL DAMAGE TO DEPARTMENT OWNED UNDERGROUND FACILITIES, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AND AT NO EXPENSE TO THE DEPARTMENT. THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS. SPLICING OF ELECTRIC CABLE WILL NOT BE ALLOWED. ELECTRIC CABLE SHALL BE REPLACED FROM POLE TO POLE OR CONTROLLER.

THE WORK REQUIRED TO CONNECT ANY SEWER TO AN EXISTING DRAINAGE STRUCTURE OR PIPE WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THE SEWER ITEMS.

THE LIDS FOR ALL NEW SANITARY SEWER MANHOLES, AIR RELEASE MANHOLES AND VALVE VAULTS SHALL HAVE THE WORDS "SANITARY"

MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:

- AT&T
- COMED
- COMCAST
- NORTHERN BORDER PIPELINE
- NICOR
- MEDIACOM
- VILLAGE OF MINOOKA

NON-MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:  
ILLINOIS DEPARTMENT OF TRANSPORTATION

**COMMITMENTS**

TREES 3" (INCHES) OR GREATER IN DIAMETER AT BREAST HEIGHT SHALL NOT BE CLEARED FROM APRIL 1ST THROUGH SEPTEMBER 30TH.

**ABBREVIATIONS**

- H.D.D. HORIZONTALLY DIRECTIONALLY DRILLED
- DR DIMENSION RATIO
- HDPE HIGH DENSITY POLY ETHYLENE
- SDR STANDARD DIMENSION RATIO
- D.I.P.S. DUCTILE IRON PIPE SIZE
- I.P.S. IRON PIPE SIZE
- M.J. MECHANICAL JOINT
- C.I. CAST IRON
- PVC POLYVINYL CHLORIDE
- RJ RESTRAINED JOINT
- PP PRESSURE PIPE

**HIGHWAY STANDARDS**

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 442201-03 CLASS C AND D PATCHES
- 602601-06 PRECAST REINFORCED CONCRETE FLAT SLAB TOP
- 602701-02 MANHOLE STEPS
- 604001-05 FRAME AND LIDS, TYPE 1
- 701006-05 OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701101-05 OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
- 701201-05 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701611-01 URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701801-06 SIDEWALK, CORNER OR CROSSWALK CLOSURE
- 701901-08 TRAFFIC CONTROL DEVICES

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DISTRICT THREE  
AS BUILT INFORMATION

\_\_\_\_\_  
SUPERVISING CONSTRUCTION FIELD ENGINEER

\_\_\_\_\_  
RESIDENT ENGINEER / TECHNICIAN

START & END DATES  
OF CONSTRUCTION:

INSPECTORS:

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DISTRICT THREE

PREPARED BY: \_\_\_\_\_  
DISTRICT STUDIES & PLANS ENGINEER

DATE: \_\_\_\_\_

EXAMINED BY: \_\_\_\_\_  
DISTRICT CONSTRUCTION ENGINEER

\_\_\_\_\_  
DISTRICT MATERIALS ENGINEER

\_\_\_\_\_  
DISTRICT OPERATIONS ENGINEER

MODEL: D:\p\h\ FILE NAME: C:\Users\11111135-09\Documents\Three Rivers Rest Area\_Sanitary\_SewerSurvey\_D366148\Consultant\_Draft\Chamlin\_2020\CAD\_Sheets\056148-dht-05notes.dgn



USER NAME = CHAMLIN	DESIGNED - DJD	REVISED -
	DRAWN - DS	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32,47) 4RA-4	GRUNDY	38	2
CONTRACT NO. 66L48				
ILLINOIS		FED. AID PROJECT		

MODEL: Default  
 FILE: M:\GIS\Users\11111335-09\DOT-180 Three Rivers Rest Area Sanitary Sewer Survey\_0366L48\Consultant Data\Chamlin\_2020\CAD\_Sheets\0366L48-18-18-001.dgn

CONSTR. CODE

100% STATE

UTILITY

0043

RURAL

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
20800150	TRENCH BACKFILL	CU YD	57	57
25000322	SEEDING, CLASS 5A	ACRE	3.25	3.25
25100630	EROSION CONTROL BLANKET	SQ YD	14650	14650
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	909	909
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	27	27
42400300	PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ FT	240	240
44000600	SIDEWALK REMOVAL	SQ FT	240	240
60248900	VALVE VAULTS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	4
67100100	MOBILIZATION	L SUM	1	1
X0320374	PLUG EXISTING SANITARY SEWERS	EACH	18	18
X0326713	SANITARY SEWER CONNECTION	EACH	1	1
X0326749	AIR RELEASE VALVE MANHOLE	EACH	2	2
X0327123	CURED-IN-PLACE PIPE LINER, 8"	FOOT	187	187

\* SPECIALTY ITEM



USER NAME = CHAMLIN	DESIGNED - DJD	REVISED -
	DRAWN - DS	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32.47) 4RA-4	GRUNDY	38	3
			CONTRACT NO. 66L48	
ILLINOIS FED. AID PROJECT				

MODEL: Default  
 FILE: M:\GIS\Users\11111335-09\DOT-180 Three Rivers Rest Area Sanitary Sewer Survey - 0366L48\Consultant Data\Chamlin\_2020\CAD\_Sheets\0366L48-01-001.dgn

CONSTR. CODE

100% STATE

UTILITY

0043

RURAL

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	UTILITY
X0327512	SANITARY FORCE MAIN, 4"	FOOT	11080	11080
X0839900	SANITARY SEWER REMOVAL 6"	FOOT	84	84
X1200021	SANITARY MANHOLE AND PIPE CONNECTION	L SUM	1	1
X1200318	CURED-IN-PLACE PIPE LINER, 6"	FOOT	278	278
X1200319	DECOMMISSIONING OF SEWAGE TREATMENT LAGOON, LOCATION 1	L SUM	1	1
X1200320	DECOMMISSIONING OF SEWAGE TREATMENT LAGOON, LOCATION 2	L SUM	1	1
X1200321	LAGOON SLUDGE PUMPING AND DISPOSAL, LOCATION 1	EACH	1	1
X1200322	LAGOON SLUDGE PUMPING AND DISPOSAL, LOCATION 2	EACH	1	1
X1200323	SANITARY FORCE MAIN, 3"	FOOT	295	295
X1200324	SANITARY SEWER LIFT STATION, LOCATION 1	EACH	1	1
X1200325	SANITARY SEWER LIFT STATION, LOCATION 2	EACH	1	1
* X1400479	EMERGENCY GENERATOR WITH AUTOMATIC TRANSFER SWITCH, LOCATION	L SUM	1	1
* X1400480	EMERGENCY GENERATOR WITH AUTOMATIC TRANSFER SWITCH, LOCATION	L SUM	1	1
X4420201	PAVEMENT PATCHING (SPECIAL)	SQ YD	18	18

\* SPECIALTY ITEM



USER NAME = CHAMLIN	DESIGNED - DJD	REVISED -
	DRAWN - DS	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32.47) 4RA-4	GRUNDY	38	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66L48	

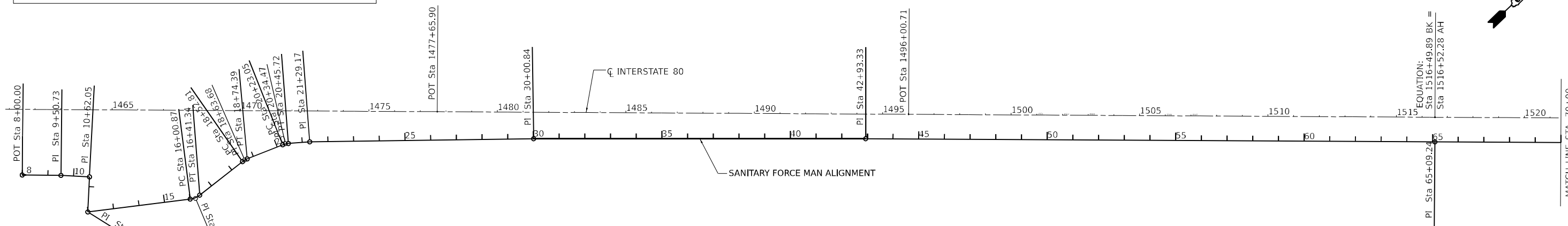
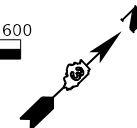
REV. 5/9/22







NOTE: INTERSTATE 80 AND SANITARY FORCE MAIN ALIGNMENT ARE INDEPENDENT



BM 2A  
CHISELED "X" ON SOUTHWEST  
BOLT OF LIGHT CONCRETE  
BASE SOUTH SIDE OF EAST  
ELEV. = 549.04

BM 2B  
RAILROAD SPIKE IN POWER POLE  
ELEV. = 555.34

BM 2C  
RAILROAD SPIKE IN POWER POLE  
ELEV. = 548.83

BM 2D  
RAILROAD SPIKE IN POWER POLE  
ELEV. = 562.14

BM 2E  
RAILROAD SPIKE IN POWER POLE  
ELEV. = 551.02

BM 2F  
RAILROAD SPIKE IN POWER POLE  
ELEV. = 546.86

BM 2G  
RAILROAD SPIKE IN POWER POLE  
EAST SIDE OF FRONTAGE ROAD  
ELEV. = 546.00

BM 2H  
RAILROAD SPIKE IN POWER POLE  
ELEV. = 545.45

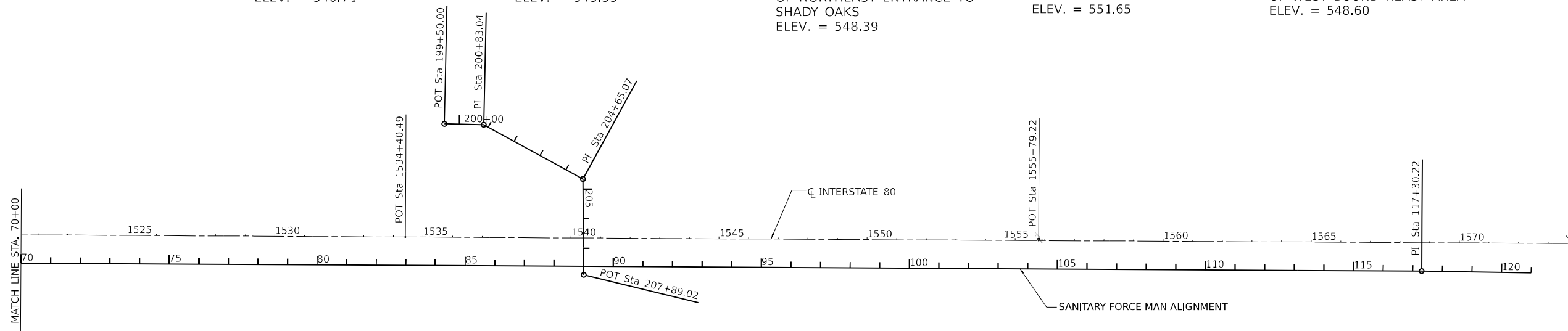
BM 2I  
RAILROAD SPIKE IN POWER POLE  
EAST SIDE OF FRONTAGE ROAD  
ELEV. = 540.71

BM 2J  
RAILROAD SPIKE IN POWER POLE  
EAST SIDE OF FRONTAGE ROAD  
ELEV. = 543.55

BM 2K  
TOP OF ROW MARKER EAST SIDE  
OF FRONTAGE ROAD 300I SOUTH  
OF NORTHEAST ENTRANCE TO  
SHADY OAKS  
ELEV. = 548.39

BM 2L  
RAILROAD SPIKE IN POWER POLE  
AT SOUTHEAST CORNER OF  
ENTRANCE TO SHADY OAKS  
ELEV. = 551.65

BM A  
CHISELED "□" ON SOLAR POLE  
CONCRETE BASE AT WEST END  
OF WEST BOUND REAST AREA  
ELEV. = 548.60



BM D  
CHISELED "X" ON NORTHEAST  
CORNER OF CONCRETE LIGHT  
BASE 3RD LIGHT BASE SOUTH  
OF OFF RAMP TO WEST BOUND  
REST STOP  
ELEV. = 548.16

BM 2M  
RAILROAD SPIKE IN POWER POLE  
SOUTH SIDE OF ROAD 1ST POWER  
POLE EAST OF SHADY OAKS  
TRAILER PARK  
ELEV. = 553.75

BM 2N  
RAILROAD SPIKE IN POWER POLE  
SOUTH SIDE OF ROAD 3RD POWER  
POLE EAST OF SHADY OAKS  
TRAILER PARK  
ELEV. = 552.83

BM 2O  
RAILROAD SPIKE IN POWER POLE  
SOUTH SIDE OF ROAD 2ND POWER  
POLE WEST OF EAST END OF  
SHADY OAKS TRAILER PARK  
ELEV. = 552.67

BM 2P  
RAILROAD SPIKE IN POWER POLE  
SOUTH SIDE OF ROAD  
25'± SOUTH OF CP #215  
ELEV. = 553.59

BM 2Q  
RAILROAD SPIKE IN POWER POLE  
SOUTHEAST SIDE OF ROAD  
ELEV. = 553.01

BM 2R  
CHISELED "X" ON SOUTHEAST  
BOLT OF FIRE HYDRANT AT  
SOUTHEAST SIDE OF FRONTAGE  
ROAD WHERE IT TURNS AND  
GOES EAST  
ELEV. = 554.12

BM 2S  
RECOVER SPIKE NAIL IN POWER  
POLE 3RD POWER POLE EAST  
OF BM 2R  
ELEV. = 552.36

MODEL: D:\p\11111325-09\DOT-480 Three Rivers Rest Area Sanitary Sewer Survey.D366148\Chamlin\_2020\CAD\_Sheets\DOT-480\dot-480-ht-alignments-hts.dgn



USER NAME = CHAMLIN	DESIGNED - DJD	REVISED -
	DRAWN - DS	REVISED -
PLOT SCALE =	CHECKED - DJD	REVISED -
PLOT DATE =	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ALIGNMENT AND TIES

SCALE: SHEET OF SHEETS STA. 8+00 TO STA. 130+00

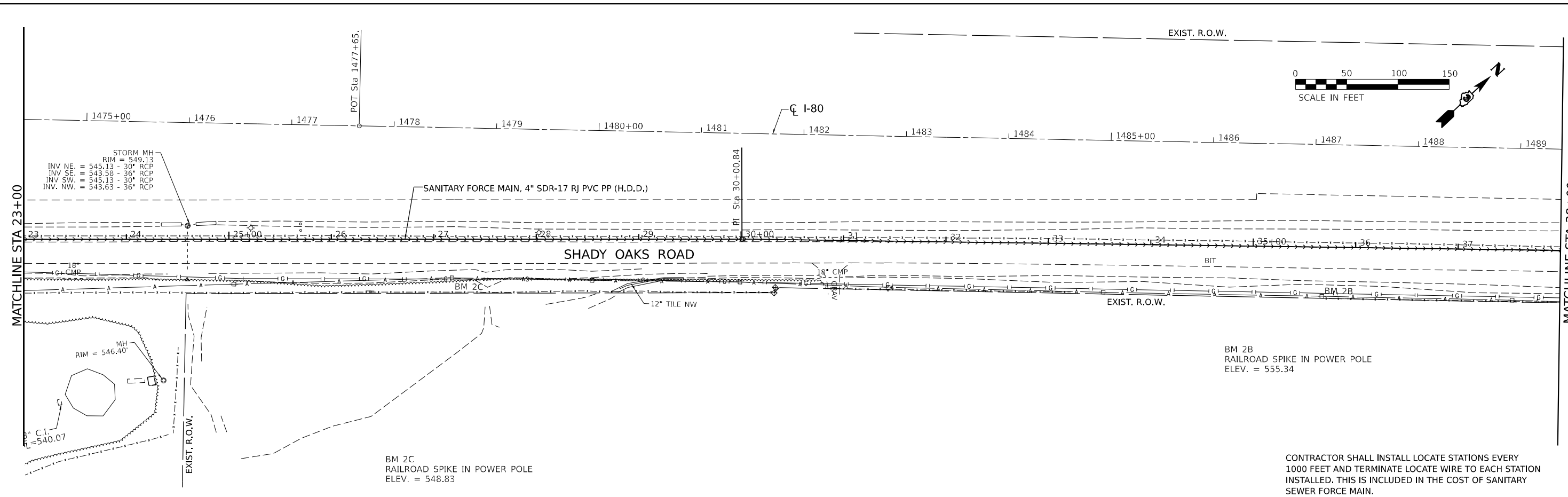
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32,47) 4RA-4	GRUNDY	38	7
CONTRACT NO. 66L48				
ILLINOIS FED. AID PROJECT				



PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILE NAME	
	NO.	

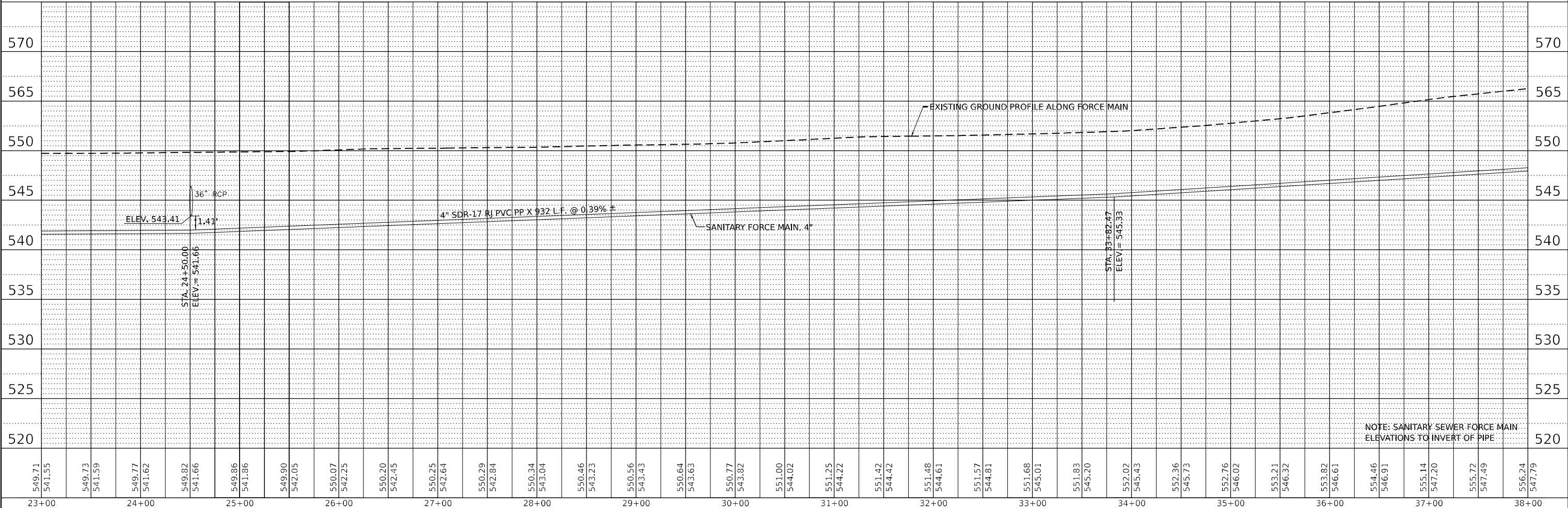
PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATIONS	
	NO.	

MODEL: Default  
 FILE NAME: G:\Users\1111333-99-001-480 Three Rivers Res. Area Station Sewer\Survey D366148\Consultant\Drawings\2020\CAD\Sheet\0366148-18-11.dwg  
 3/23/2020



BM 2B  
 RAILROAD SPIKE IN POWER POLE  
 ELEV. = 555.34

CONTRACTOR SHALL INSTALL LOCATE STATIONS EVERY 1000 FEET AND TERMINATE LOCATE WIRE TO EACH STATION INSTALLED. THIS IS INCLUDED IN THE COST OF SANITARY SEWER FORCE MAIN.



NOTE: SANITARY SEWER FORCE MAIN ELEVATIONS TO INVERT OF PIPE



USER NAME = CHAMLIN	DESIGNED - DJD	REVISED -
	DRAWN - DS	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE  
 SCALE: SHEET 2 OF 9 SHEETS STA. 23+00 TO STA. 38+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32,47)4RA-4	GRUNDY	37	9
CONTRACT NO. 66L48				
ILLINOIS FED. AID PROJECT				

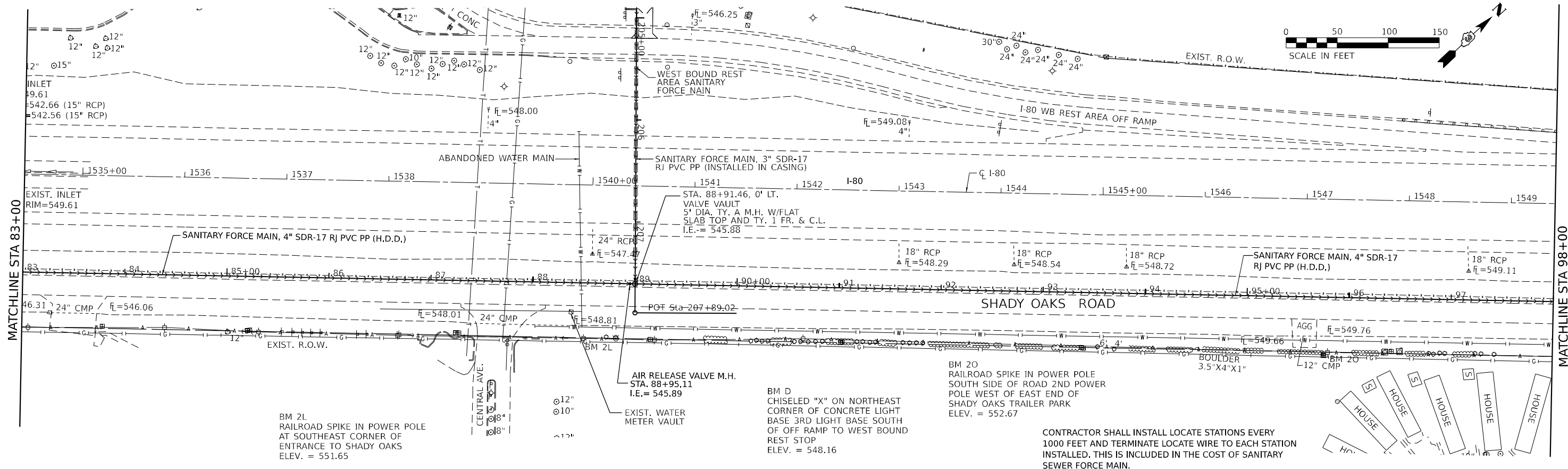






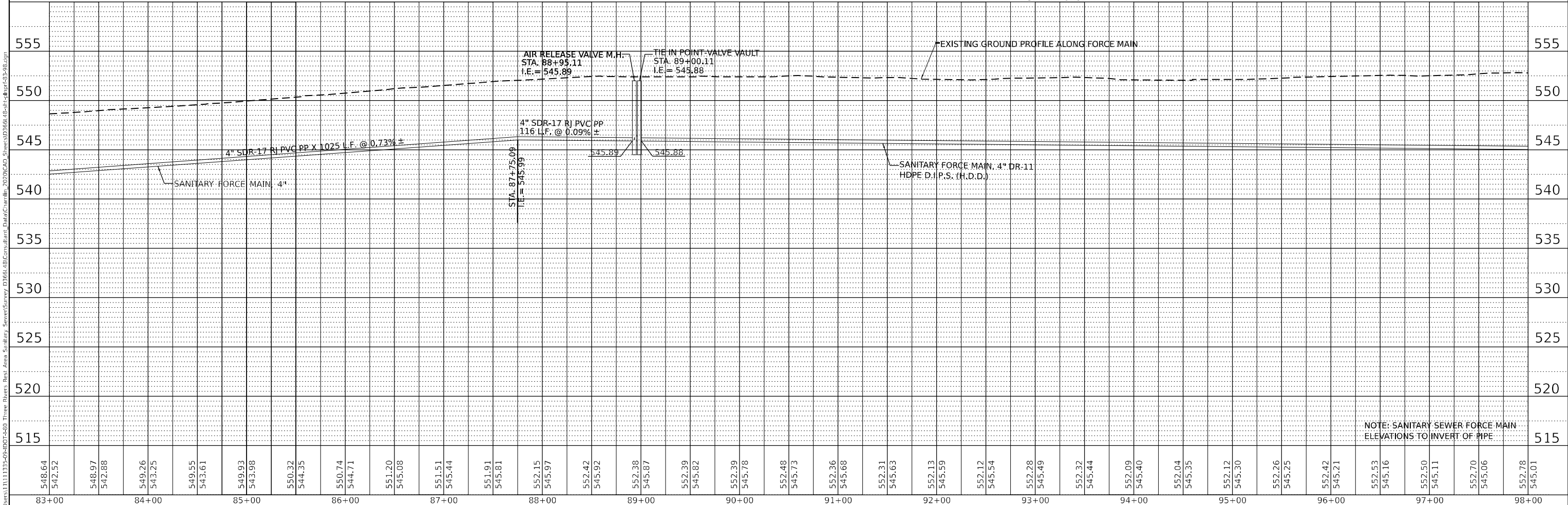


# I-80 WESTBOUND REST AREA



PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	STRUCTURE NOTATIONS CIPED	
	NOTE BOOK NO.	
	BY	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CIPED	
	NOTE BOOK NO.	
	BY	



NOTE: SANITARY SEWER FORCE MAIN ELEVATIONS TO INVERT OF PIPE

MODEL: D:\default  
FILE NAME: G:\user\111133-09-01-480 Three Rivers Rest Area Sanitary Sewer\Survey D366148\Consultant\Drawn\Drawings\2020\CAI\_Sewer\SD366148-11-11-13-09-01-480.dwg

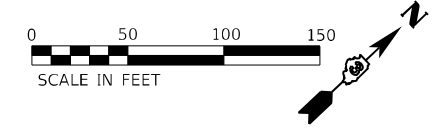


USER NAME = CHAMLIN	DESIGNED - DJD	REVISED -
	DRAWN - DS	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

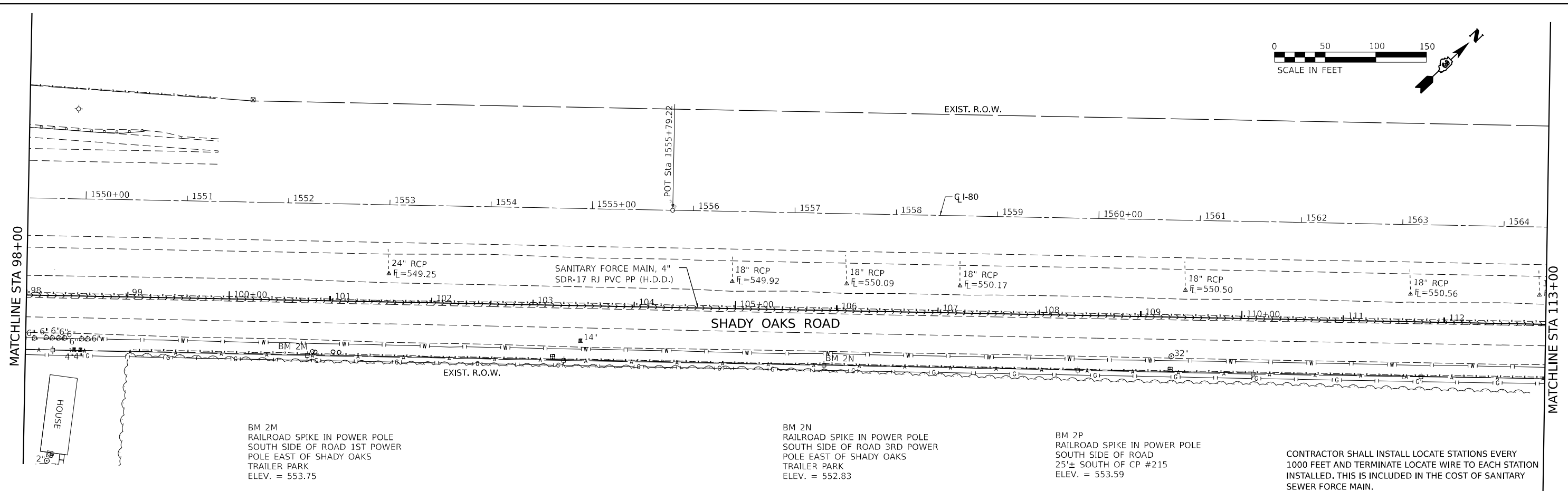
PLAN AND PROFILE  
SCALE: SHEET 6 OF 9 SHEETS STA. 83+00 TO STA. 98+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32,47)4RA-4	GRUNDY	38	13
CONTRACT NO. 66L48				
ILLINOIS FED. AID PROJECT				



PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	NOTE BOOK	
	NO.	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	NOTE BOOK	
	NO.	
	STRUCTURE NOTATIONS	

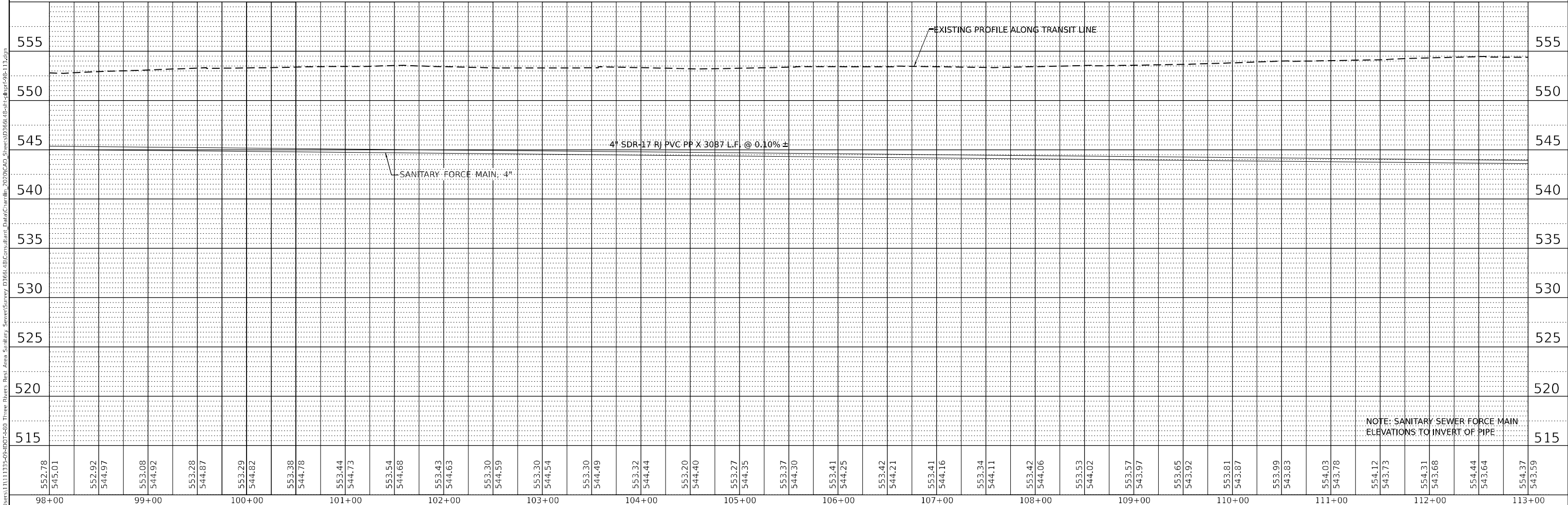


BM 2M  
RAILROAD SPIKE IN POWER POLE  
SOUTH SIDE OF ROAD 1ST POWER  
POLE EAST OF SHADY OAKS  
TRAILER PARK  
ELEV. = 553.75

BM 2N  
RAILROAD SPIKE IN POWER POLE  
SOUTH SIDE OF ROAD 3RD POWER  
POLE EAST OF SHADY OAKS  
TRAILER PARK  
ELEV. = 552.83

BM 2P  
RAILROAD SPIKE IN POWER POLE  
SOUTH SIDE OF ROAD  
25'± SOUTH OF CP #215  
ELEV. = 553.59

CONTRACTOR SHALL INSTALL LOCATE STATIONS EVERY  
1000 FEET AND TERMINATE LOCATE WIRE TO EACH STATION  
INSTALLED. THIS IS INCLUDED IN THE COST OF SANITARY  
SEWER FORCE MAIN.



MODEL: Default  
FILE NAME: G:\Users\11111333-69-49-05-480 Three Rivers Res. Area Spalters Sewer\Survey D366148\Consultant\Drawings\2020\CAD\Sheet\SD366148-18-11-11.dwg



USER NAME = CHAMLIN	DESIGNED - DJD	REVISED -
	DRAWN - DS	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

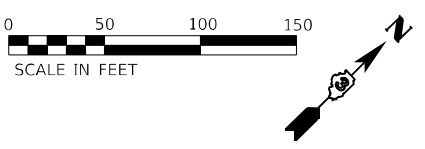
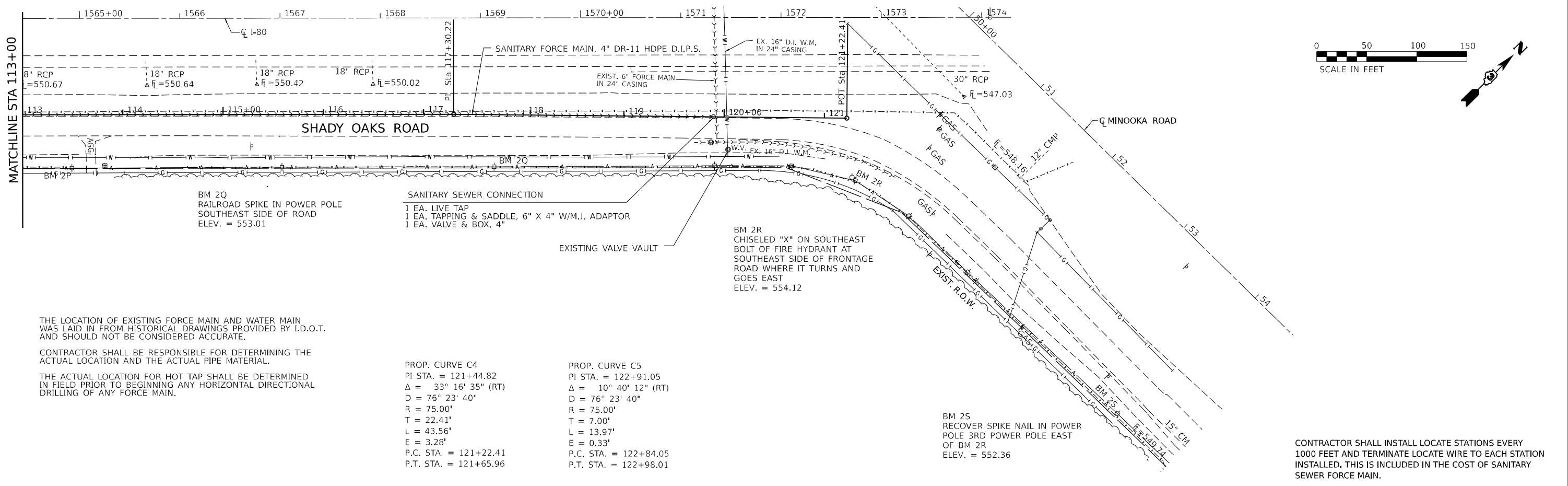
SCALE:		SHEET 7 OF 9 SHEETS		STA. 98+00 TO STA. 113+00	
		PLAN AND PROFILE			

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32,47)4RA-4	GRUNDY	38	14
CONTRACT NO. 66L48			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PIOTTED	
	ALIGNED	
	CHECKED	
	BY	
	NO.	

PROFILE	SURVEYED	DATE
	PIOTTED	
	GRADED	
	CHECKED	
	BY	
	NO.	

MODEL: Default  
 FILE NAME: G:\Users\1111133-09-01-480 Three Rivers Res. Area Station Sewer\Survey D366148\Consultant\Drawn\2020\CA3\_Sheets\0366148-113-126.dgn



THE LOCATION OF EXISTING FORCE MAIN AND WATER MAIN WAS LAID IN FROM HISTORICAL DRAWINGS PROVIDED BY I.D.O.T. AND SHOULD NOT BE CONSIDERED ACCURATE.

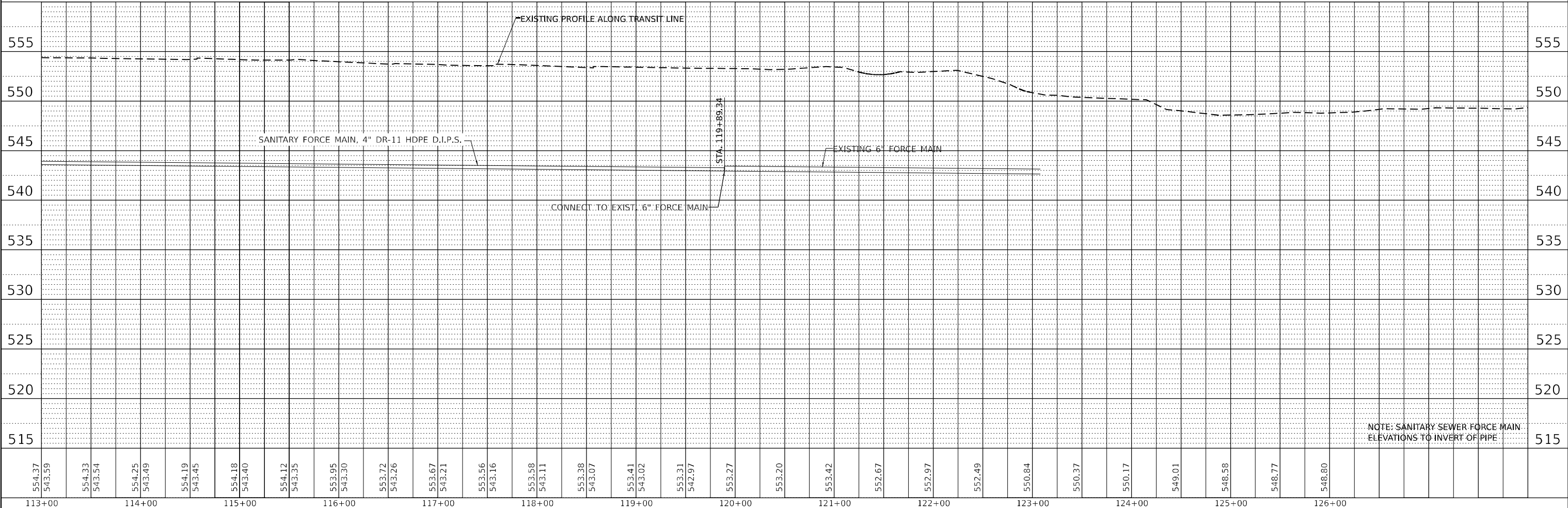
CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE ACTUAL LOCATION AND THE ACTUAL PIPE MATERIAL.

THE ACTUAL LOCATION FOR HOT TAP SHALL BE DETERMINED IN FIELD PRIOR TO BEGINNING ANY HORIZONTAL DIRECTIONAL DRILLING OF ANY FORCE MAIN.

PROP. CURVE C4  
 PI STA. = 121+44.82  
 $\Delta = 33^\circ 16' 35''$  (RT)  
 $D = 76^\circ 23' 40''$   
 $R = 75.00'$   
 $T = 22.41'$   
 $L = 43.56'$   
 $E = 3.28'$   
 P.C. STA. = 121+22.41  
 P.T. STA. = 121+65.96

PROP. CURVE C5  
 PI STA. = 122+91.05  
 $\Delta = 10^\circ 40' 12''$  (RT)  
 $D = 76^\circ 23' 40''$   
 $R = 75.00'$   
 $T = 7.00'$   
 $L = 13.97'$   
 $E = 0.33'$   
 P.C. STA. = 122+84.05  
 P.T. STA. = 122+98.01

CONTRACTOR SHALL INSTALL LOCATE STATIONS EVERY 100 FEET AND TERMINATE LOCATE WIRE TO EACH STATION INSTALLED. THIS IS INCLUDED IN THE COST OF SANITARY SEWER FORCE MAIN.



NOTE: SANITARY SEWER FORCE MAIN ELEVATIONS TO INVERT OF PIPE



USER NAME = CHAMLIN	DESIGNED - DJD	REVISED -
	DRAWN - DS	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DATE -	REVISED -

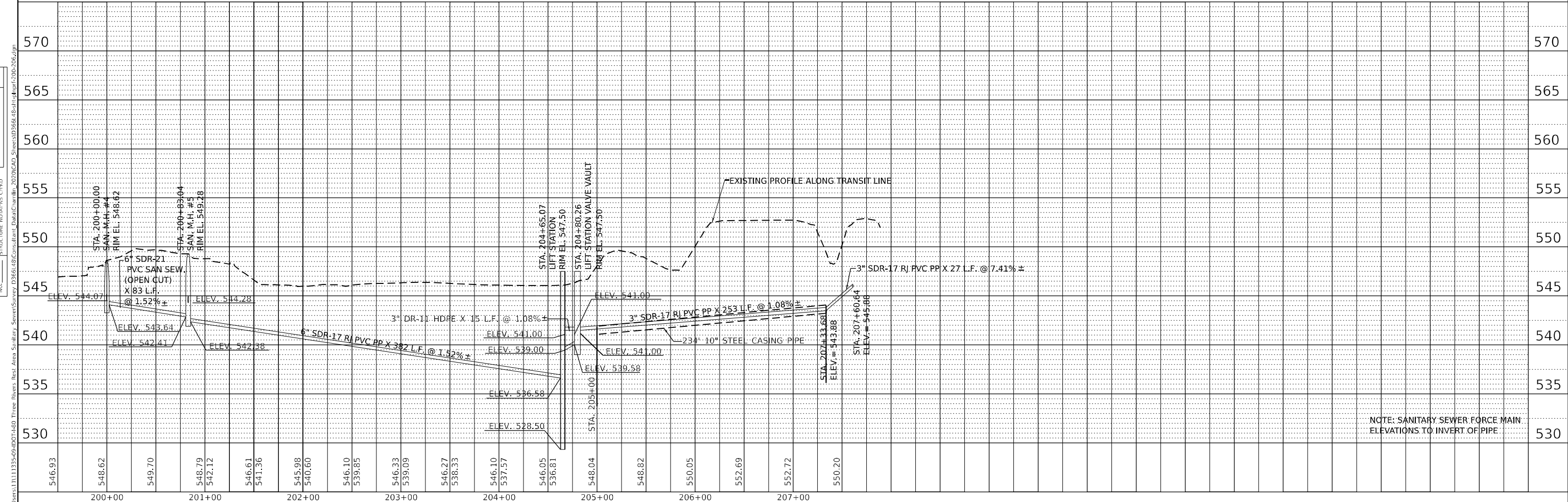
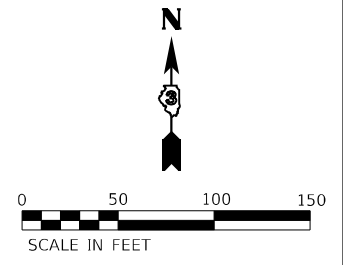
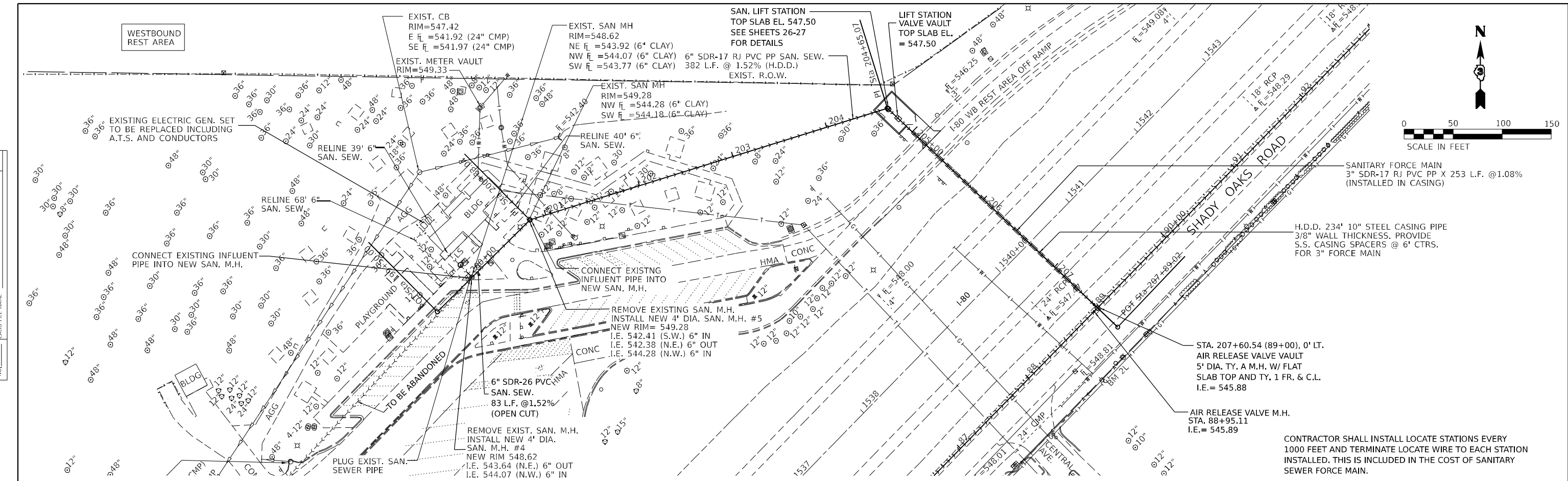
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE			
SCALE:	SHEET 8	OF 9 SHEETS	STA. 113+00 TO STA. 126+00

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32,47)4RA-4	GRUNDY	38	15
CONTRACT NO. 66L48				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	BY	
	NO.	
	DATE	

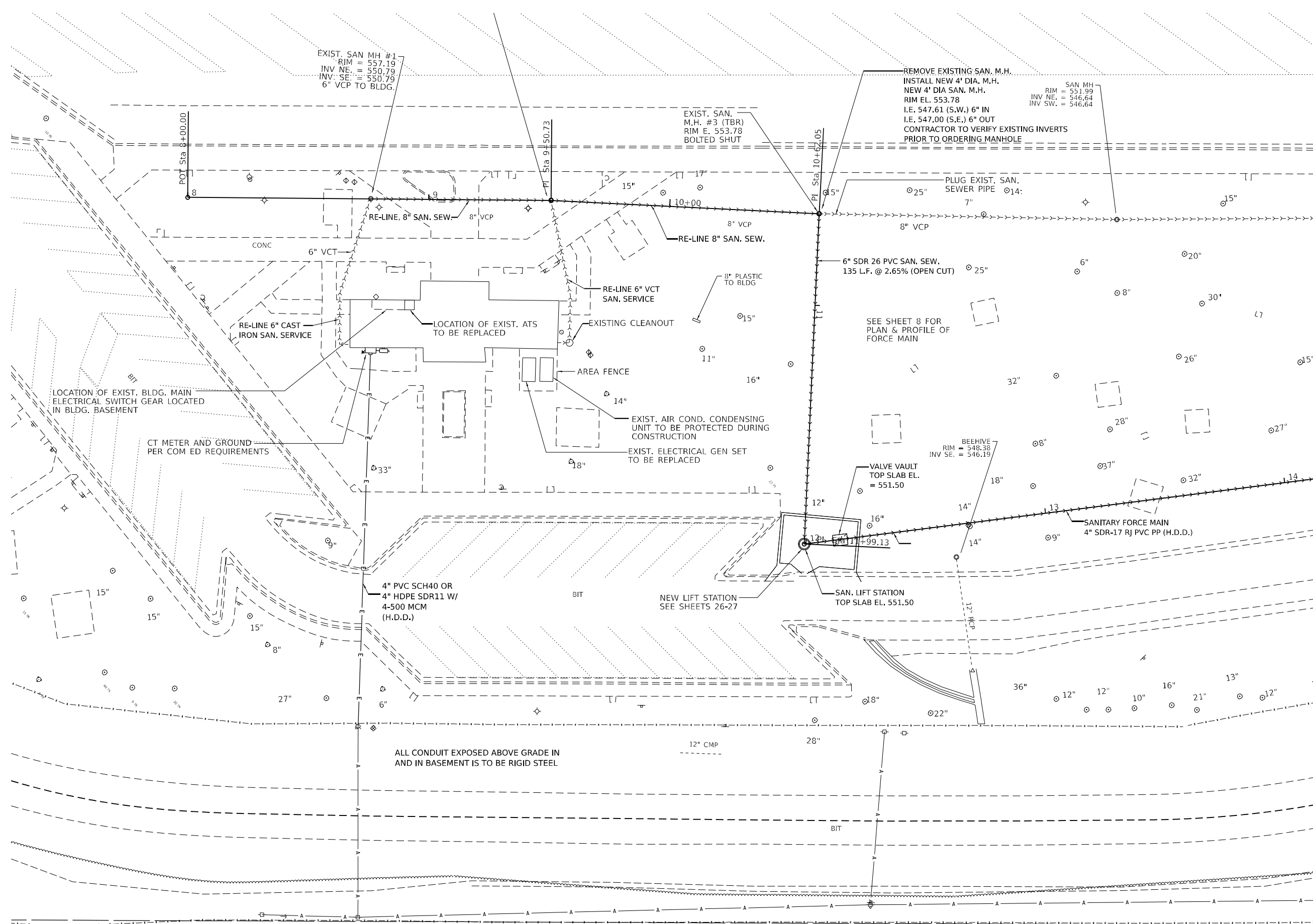
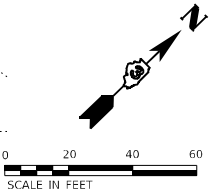
PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	BY	
	NO.	
	DATE	



NOTE: SANITARY SEWER FORCE MAIN ELEVATIONS TO INVERT OF PIPE

	USER NAME = CHAMLIN	DESIGNED - DJD	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>PLAN AND PROFILE</b>	F.A.I. RTE. = 80	SECTION = (32,47)4RA-4	COUNTY = GRUNDY	TOTAL SHEETS = 38	SHEET NO. = 16
	PLOT SCALE =	CHECKED - DS	REVISED -			SCALE: 1" = 40'	SHEET 9 OF 9 SHEETS	STA. 200+00 TO STA. 207+00	CONTRACT NO. 66L48	
	PLOT DATE =	DATE =	REVISED -							

MODEL: Default  
FILE NAME: G:\Users\G\OneDrive\Documents\Projects\2020\CA\Sanitary Sewer\Survey\Drawings\DWG\2020\CA\Sanitary Sewer\Profile\Profile200-206.dwg



MODEL: Default  
 FILE NAME: C:\Users\11111325-0940D01-480 Three Rivers Rest Area\_Sanitary\_Sewer\Survey\_D3861481\Consultant\_Dba\Chamlin\_2020\CAD\_Sheets\Sheet17.Dwg  
 DATE: 11/11/2020 11:11:13 AM



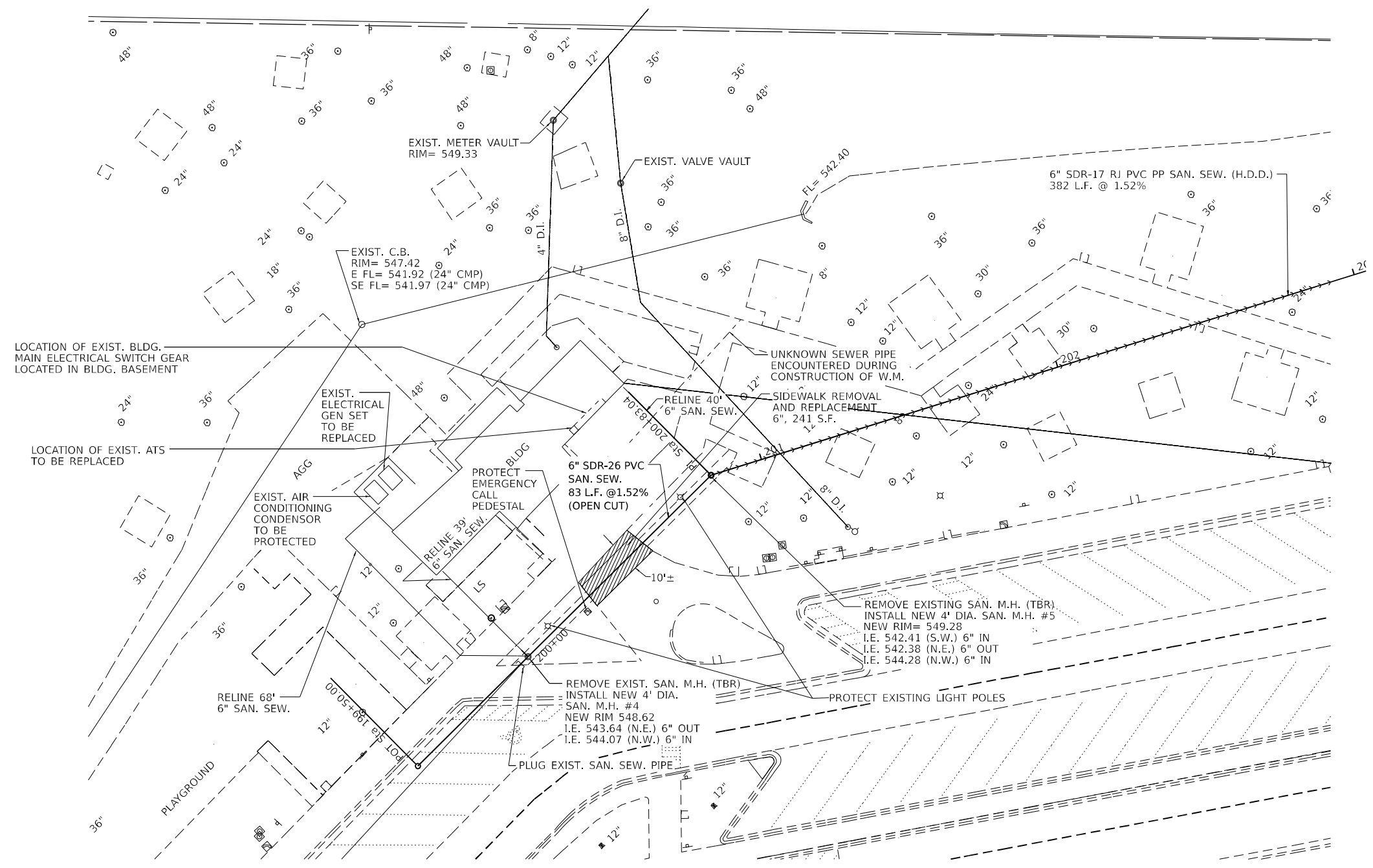
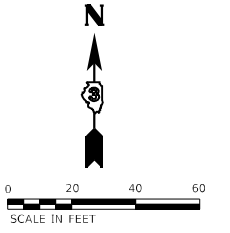
USER NAME = CHAMLIN	DESIGNED - DJD	REVISED -
PLOT SCALE =	DRAWN - DS	REVISED -
PLOT DATE =	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**EASTBOUND REST AREA**  
**SITE PLAN**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32,47) 4RA-4	GRUNDY	38	17
CONTRACT NO. 66L48				
ILLINOIS FED. AID PROJECT				



MODEL: Default  
 FILE NAME: C:\Users\11111325-094DD0T-480 Three Rivers Rest Area\_Southon\_SewerSurvey\_D3861481\Consultant\Draw\Chamlin\_2020\CAD\_Sheets\103661481.dwg  
 PROJECT: 2020\CAD\_Sheets\103661481.dwg  
 DATE: 11/11/2020 11:11:13 AM



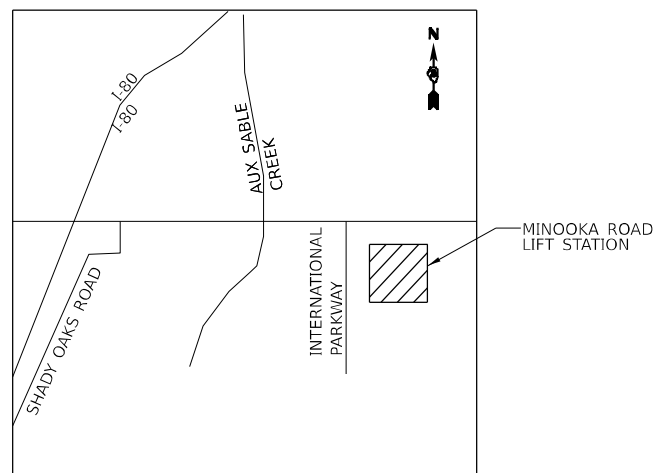
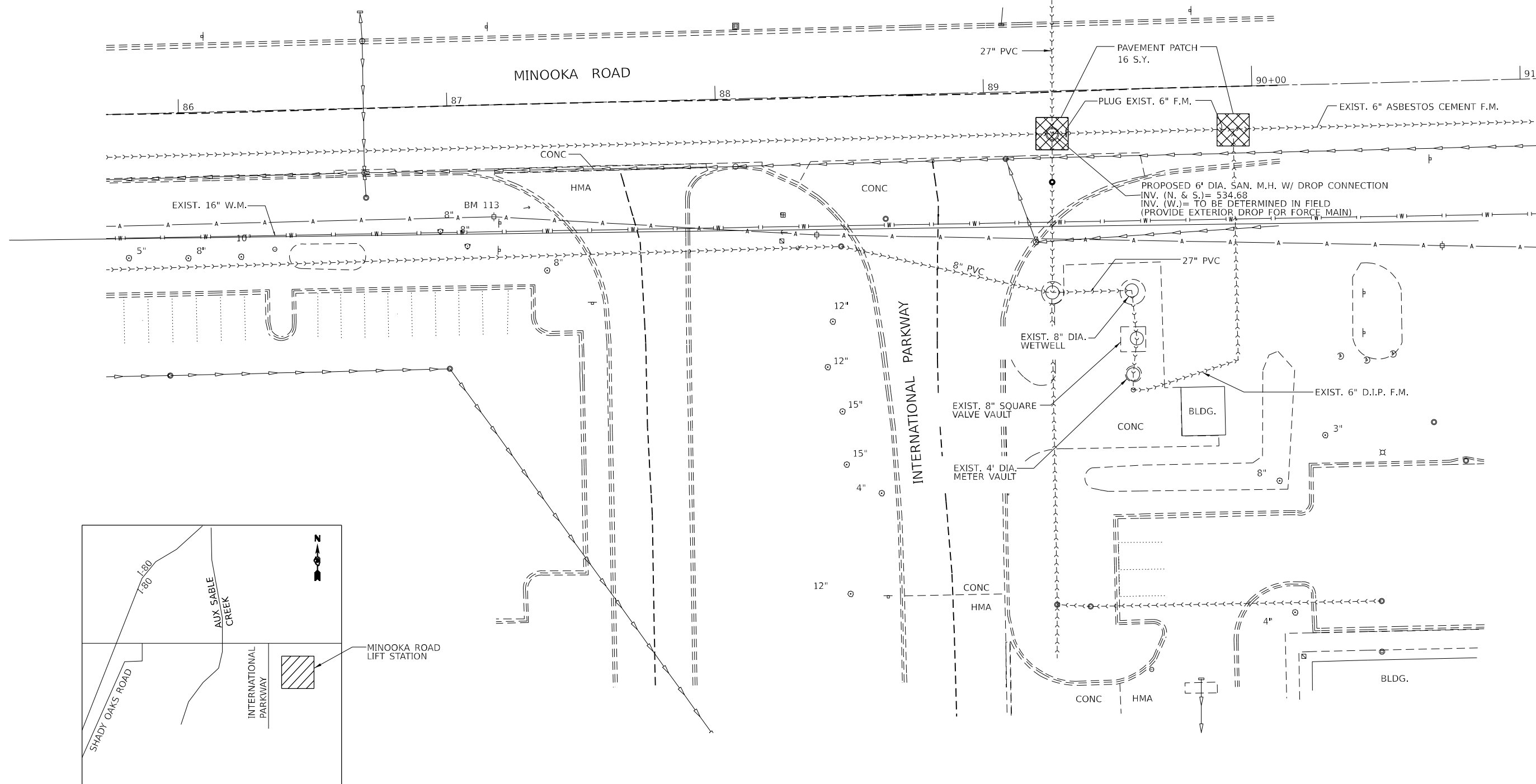
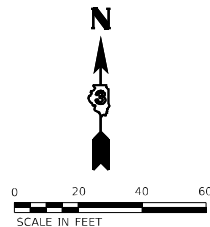
USER NAME = CHAMLIN	DESIGNED - DJD	REVISED -
	DRAWN - DS	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**WESTBOUND REST AREA**  
**SITE PLAN**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32,47) 4RA-4	GRUNDY	38	18
CONTRACT NO. 66L48				
ILLINOIS FED. AID PROJECT				



 PAVEMENT PATCHING (SPECIAL)

MODEL: Default  
 FILE: Minooka Road Lift Station.dwg  
 USER: chamlin  
 DATE: 11/11/2020 10:40:00 AM  
 PLOT: 11/11/2020 10:40:00 AM  
 PLOT SCALE: 1/8" = 1'-0"  
 PLOT DATE: 11/11/2020 10:40:00 AM



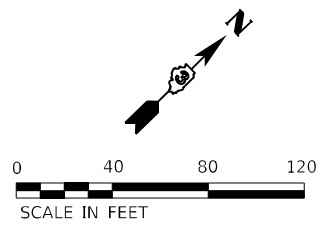
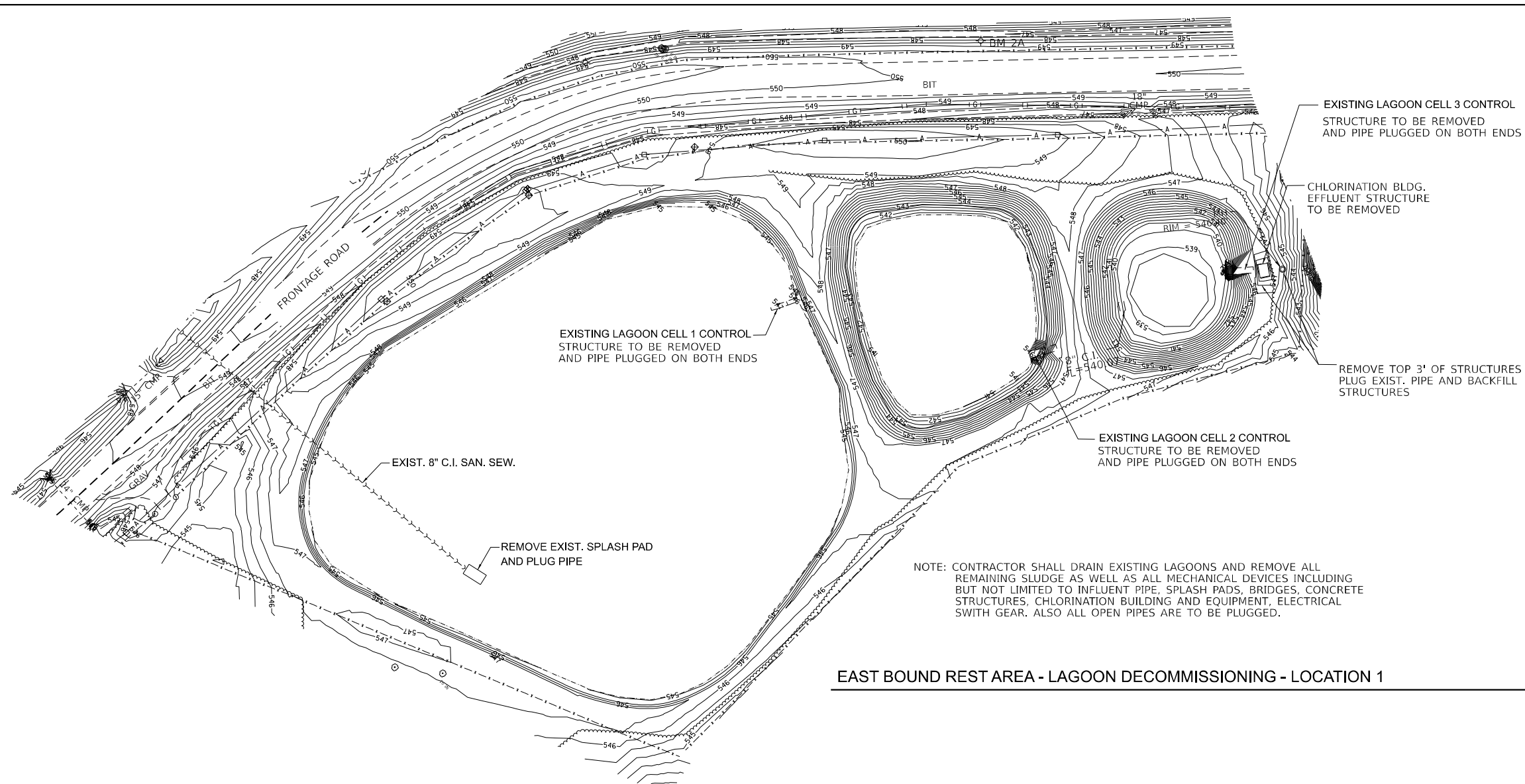
USER NAME = CHAMLIN	DESIGNED - DJD	REVISED -
	DRAWN - DS	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MINOOKA ROAD LIFT STATION  
SITE PLAN**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32,47) 4RA-4	GRUNDY	38	19
CONTRACT NO. 66L48				
ILLINOIS FED. AID PROJECT				



NOTE: CONTRACTOR SHALL DRAIN EXISTING LAGOONS AND REMOVE ALL REMAINING SLUDGE AS WELL AS ALL MECHANICAL DEVICES INCLUDING BUT NOT LIMITED TO INFLUENT PIPE, SPLASH PADS, BRIDGES, CONCRETE STRUCTURES, CHLORINATION BUILDING AND EQUIPMENT, ELECTRICAL SWITCH GEAR. ALSO ALL OPEN PIPES ARE TO BE PLUGGED.

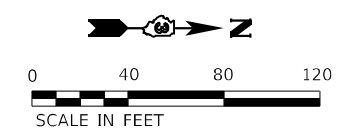
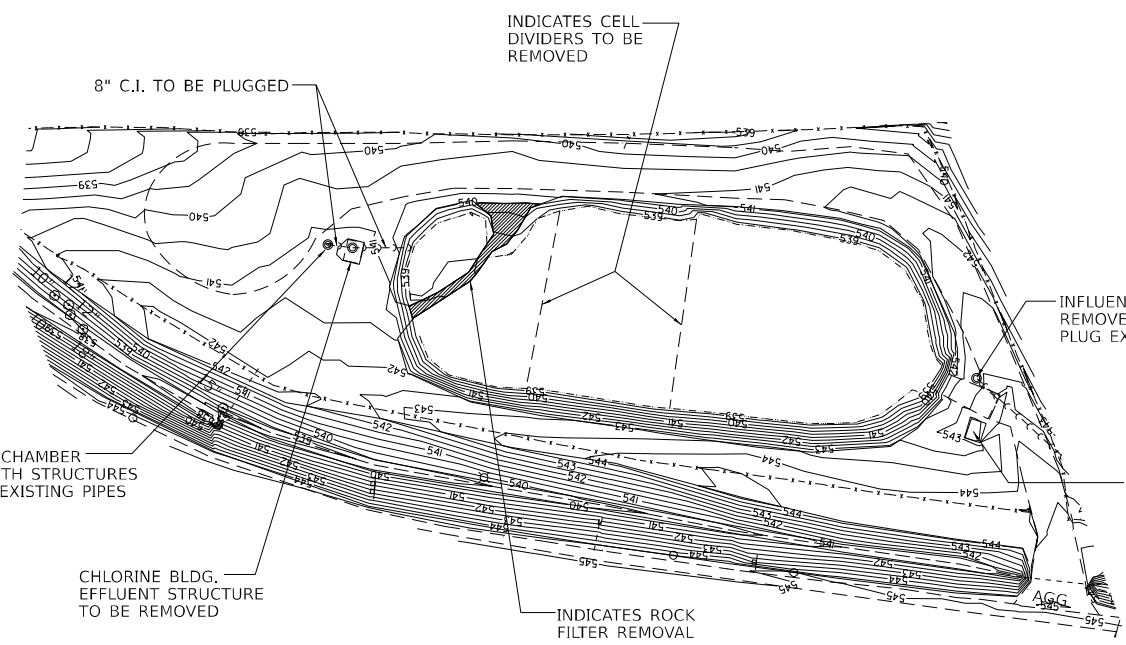
LAGOON SLUDGE PUMPING AND DISPOSAL

LOCATION	ESTIMATED GALLONS
1	440,000
2	80,000

EAST BOUND REST AREA - LAGOON DECOMMISSIONING - LOCATION 1

WEST BOUND REST AREA - LAGOON DECOMMISSIONING - LOCATION 2

NOTE: CONTRACTOR SHALL DRAIN EXISTING LAGOONS AND REMOVE ALL REMAINING SLUDGE, AS WELL AS ALL MECHANICAL DEVICES INCLUDING BUT NOT LIMITED TO INFLUENT PIPING, SPLASH PADS, AERATION PIPING AND EQUIPMENT, CHLORINATION EQUIPMENT, BUILDINGS, EFFLUENT AND CHLORINATION STRUCTURES, LAGOON CELL DIVIDERS, MISC. CONCRETE PADS, ELECTRICAL SWITCH GEAR, ROCK FILTER. ALSO ALL OPEN PIPES ARE TO BE PLUGGED.



NOTE: ALL AERATION OR OTHER MECHANICAL EQUIPMENT SHALL BE REMOVED FROM LAGOON. ALL BURIED PIPES REMAINING IN PLACE SHALL BE CAPPED.

MODEL: Default  
FILE NAME: G:\Users\Gularen11111325-094001-480 Three Rivers Rest Area\_Southon\_Servers\Survey\_D3661481\Consultant\_Data\Chamlin\_2020\CAD\_Sheets\03661481-08-08-20-03-00-00-decommissioning.dgn



USER NAME = CHAMLIN	DESIGNED - DJD	REVISED -
	DRAWN - DS	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DATE -	REVISED -

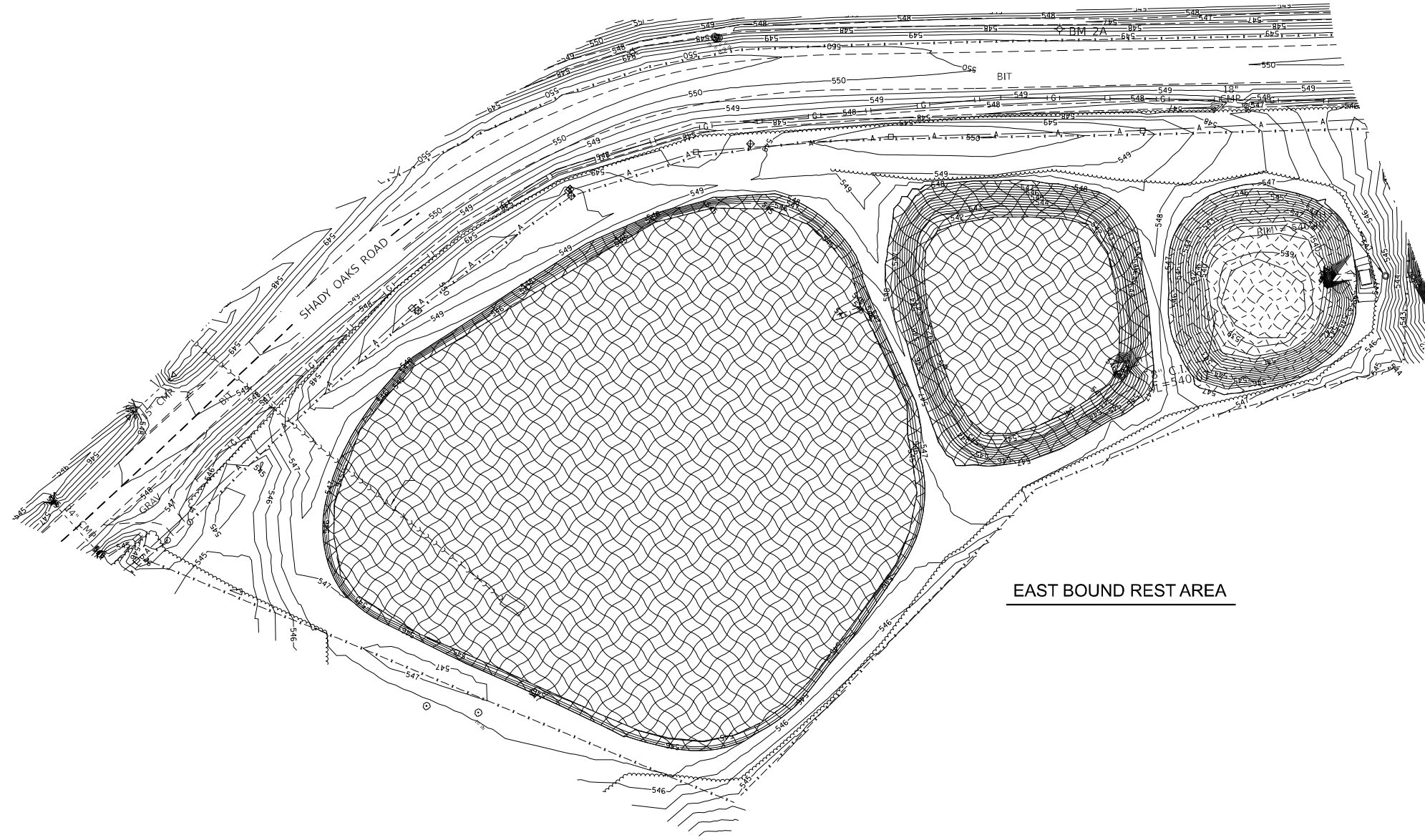
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

LAGOON DECOMMISSIONING PLAN

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

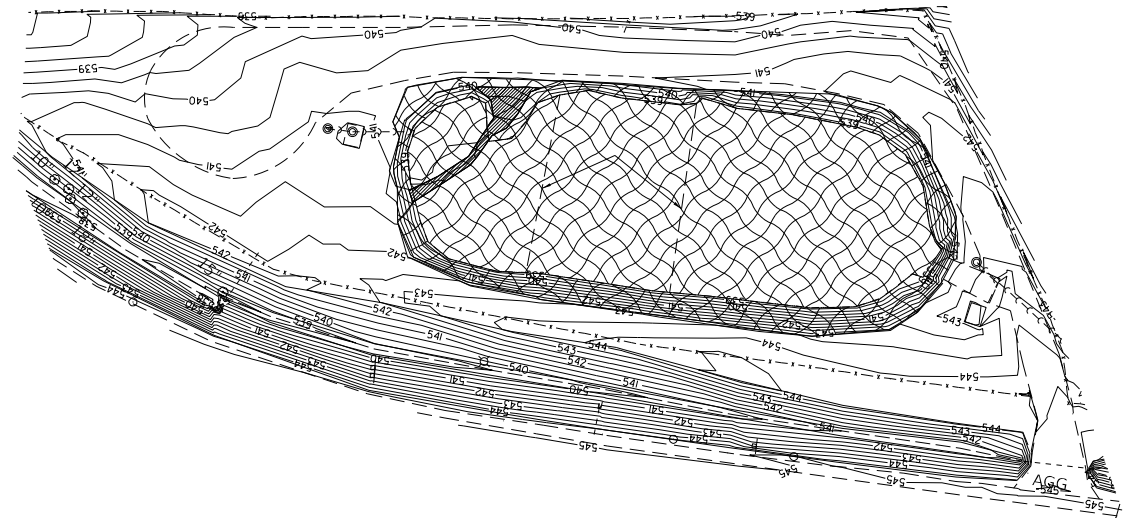
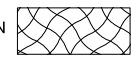
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32,47) 4RA-4	GRUNDY	38	20
CONTRACT NO. 66L48			ILLINOIS FED. AID PROJECT	





EAST BOUND REST AREA

SEEDING CLASS 5A WITH EROSION CONTROL BLANKET



WEST BOUND REST AREA

MODEL: Default  
 FILE NAME: G:\Users\Gularen11111325-09\DOT\480 Three Rivers Rest Area\_South\ServerSurvey\_D386648\Consultant\_Datat\Chamlin\_2020\CAD\_Sheets\0356148\_rht\topoc-restoration.dgn



USER NAME = CHAMLIN	DESIGNED - DJD	REVISED -
	DRAWN - DS	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DATE -	REVISED -

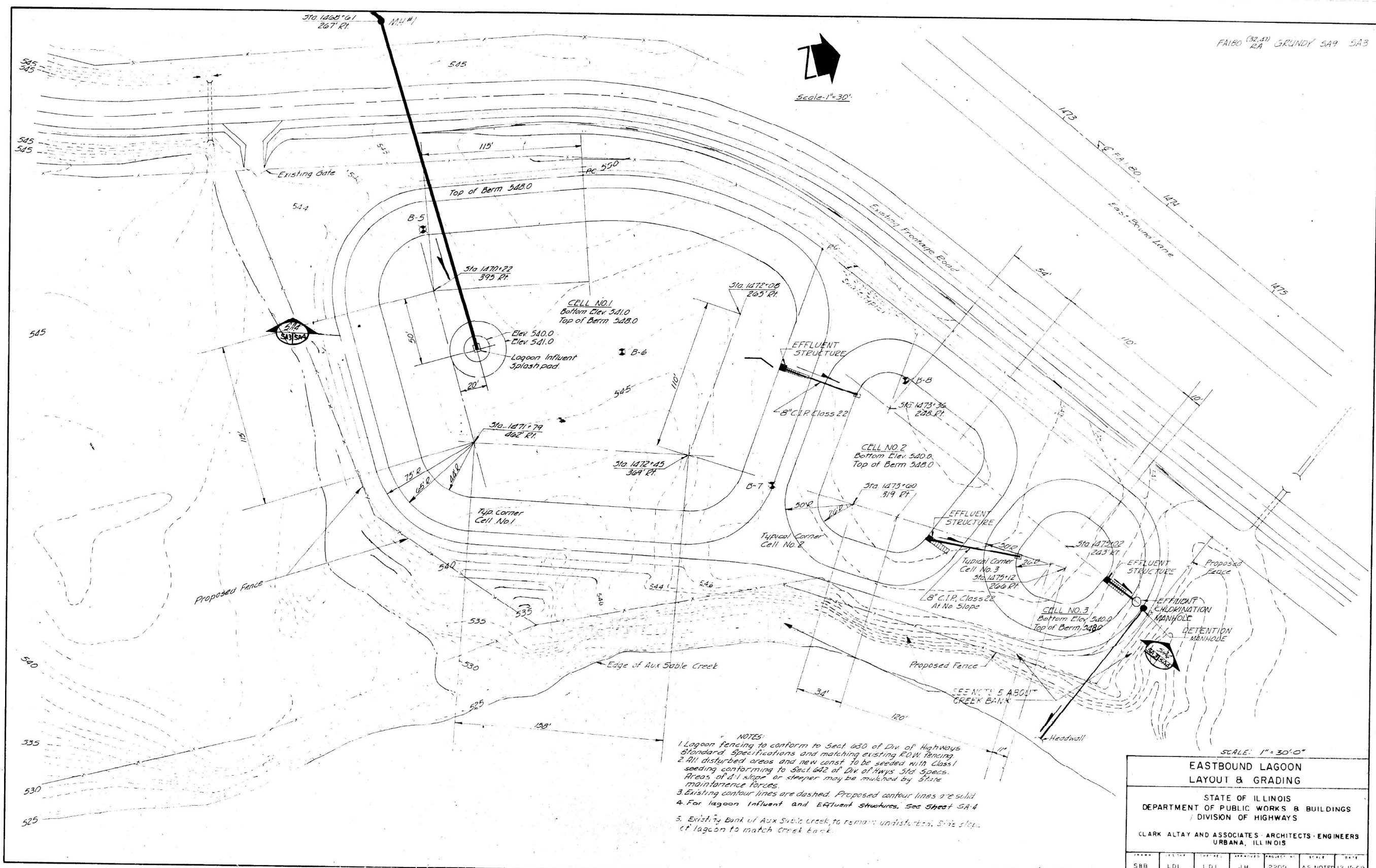
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**LAGOON RESTORATION PLAN**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32.47) 4RA-4	GRUNDY	38	21
CONTRACT NO. 66L48				
ILLINOIS FED. AID PROJECT				





- NOTES:
1. Lagoon fencing to conform to Sect. 680 of Div. of Highways Standard Specifications and matching existing R.O.W. fencing.
  2. All disturbed areas and new const. to be seeded with Class I seeding conforming to Sect. 642 of Div. of Hwys Std. Specs. Areas of 2:1 slope or steeper may be mulched by State maintenance forces.
  3. Existing contour lines are dashed. Proposed contour lines are solid.
  4. For lagoon influent and effluent structures, see Sheet SA-4.
  5. Existing bank of Aux Sable Creek to remain undisturbed. Side slope of lagoon to match creek bank.

SCALE: 1" = 30' 0"

**EASTBOUND LAGOON  
LAYOUT & GRADING**

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

CLARK ALTAY AND ASSOCIATES - ARCHITECTS - ENGINEERS  
URBANA, ILLINOIS

SBB	LDL	LDL	JH	2209	AS NOTED	12 15 69
-----	-----	-----	----	------	----------	----------

MODEL: D:\p\1111335-09\DOT-480 Three Rivers Rest Area\_Southon\_SewerSurvey.D3866481\Consultant\_Draft\Chamlin\_2020\CAD\_Sheets\DWG\480-48-01-HydroTech.dwg  
FILE NAME: C:\Users\1111335-09\DOT-480 Three Rivers Rest Area\_Southon\_SewerSurvey.D3866481\Consultant\_Draft\Chamlin\_2020\CAD\_Sheets\DWG\480-48-01-HydroTech.dwg



USER NAME = CHAMLIN	DESIGNED - DID	REVISED -	
	DRAWN - DS	REVISED -	
PLOT SCALE =	CHECKED -	REVISED -	
PLOT DATE =	DATE -	REVISED -	

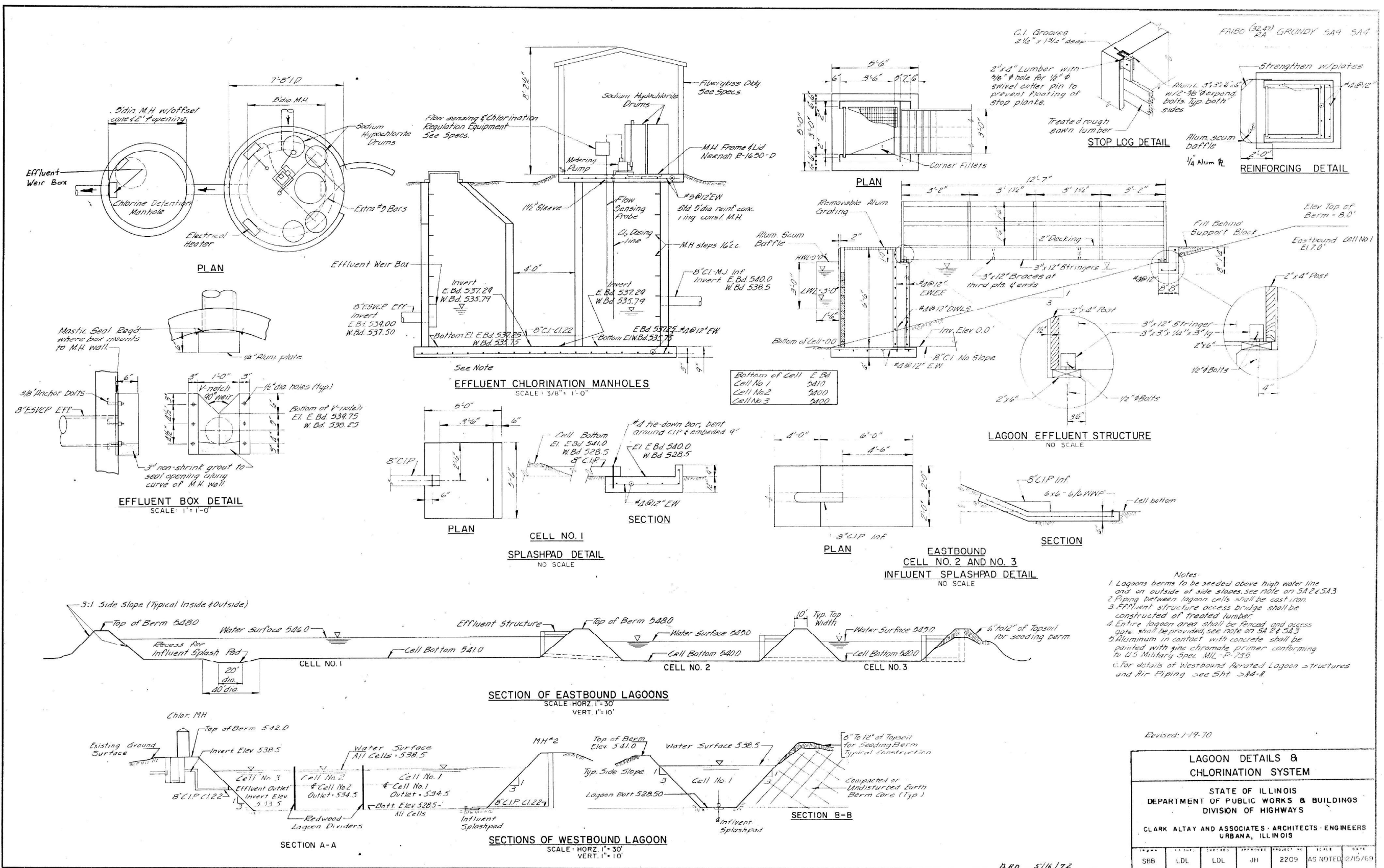
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**HISTORICAL CONSTRUCTION PLANS FOR LAGOONS**

SCALE: SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32,47) 4RA-4	GRUNDY	38	23
CONTRACT NO. 66L48				
ILLINOIS FED. AID PROJECT				





Revised: 1-19-70

LAGOON DETAILS & CHLORINATION SYSTEM						
STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS & BUILDINGS DIVISION OF HIGHWAYS						
CLARK ALTAY AND ASSOCIATES - ARCHITECTS - ENGINEERS URBANA, ILLINOIS						
DESIGNED BY	DRAWN BY	CHECKED BY	DATE	IN CHARGE	DATE	SCALE
SBB	LDL	LDL	JH	2209	AS NOTED	12/15/69

P.B.D. 5/16/72

MODEL: D:\p\h\111135-00-00-00-1-80 Three Rivers Rest Area Station Sewer Survey D386.dwg  
 FILE NAME: C:\Users\jchamlin\OneDrive\Documents\Drawings\Chamlin\_2020\CAD\_Sheets\1014-48-01-Hydro\1014-48-01-Hydro.dwg  
 DESIGNED BY: CHAMLIN DATE: 12/15/69 CHECKED BY: JH DATE: 1/19/70 IN CHARGE: SBB DATE: 12/15/69 SCALE: AS NOTED



USER NAME = CHAMLIN	DESIGNED - DID	REVISED -
DRAWN - DS	CHECKED - DS	REVISED -
PLOT SCALE =	DATE -	REVISED -
PLOT DATE =		

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**HISTORICAL CONSTRUCTION PLANS FOR LAGOONS**

SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32.47) 4RA-4	GRUNDY	38	24
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66L48	



**NOTES:**

BACK FILL EXCAVATED AREA AROUND LIFT STATION AND VALVE VAULT WITH COMPACTED CA-11 TO A POINT 12" BELOW FINAL GRADE AND CAPPED WITH 12" CA-6 OVER GEOTEXTILE ROADWAY FABRIC

LIFT STATION AND VALVE VAULT SHALL BE INSTALLED ON 12" AGG. BASE (CA-11)

FORCE MAIN FITTINGS IN STRUCTURES SHALL BE DUCTILE IRON AND CONFORM TO ANSI/AWWA C110/A21.10 OR C153/A21.53 FITTINGS ARE TO BE CONSIDERED INCIDENTAL

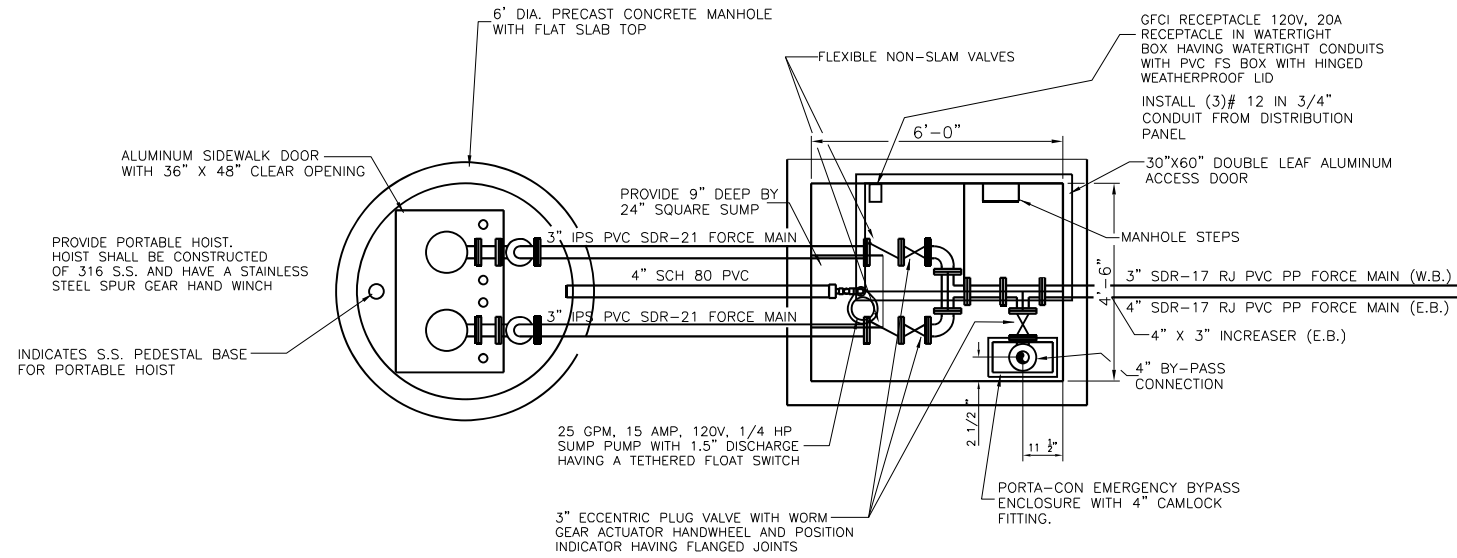
INSTALL TRACER WIRE ON ALL NEW PIPE AND SPLICE TO EXISTING

THE HOLES FOR THE FORCE MAIN PIPES INTO LIFT STATION SHALL NOT BE RADIAL

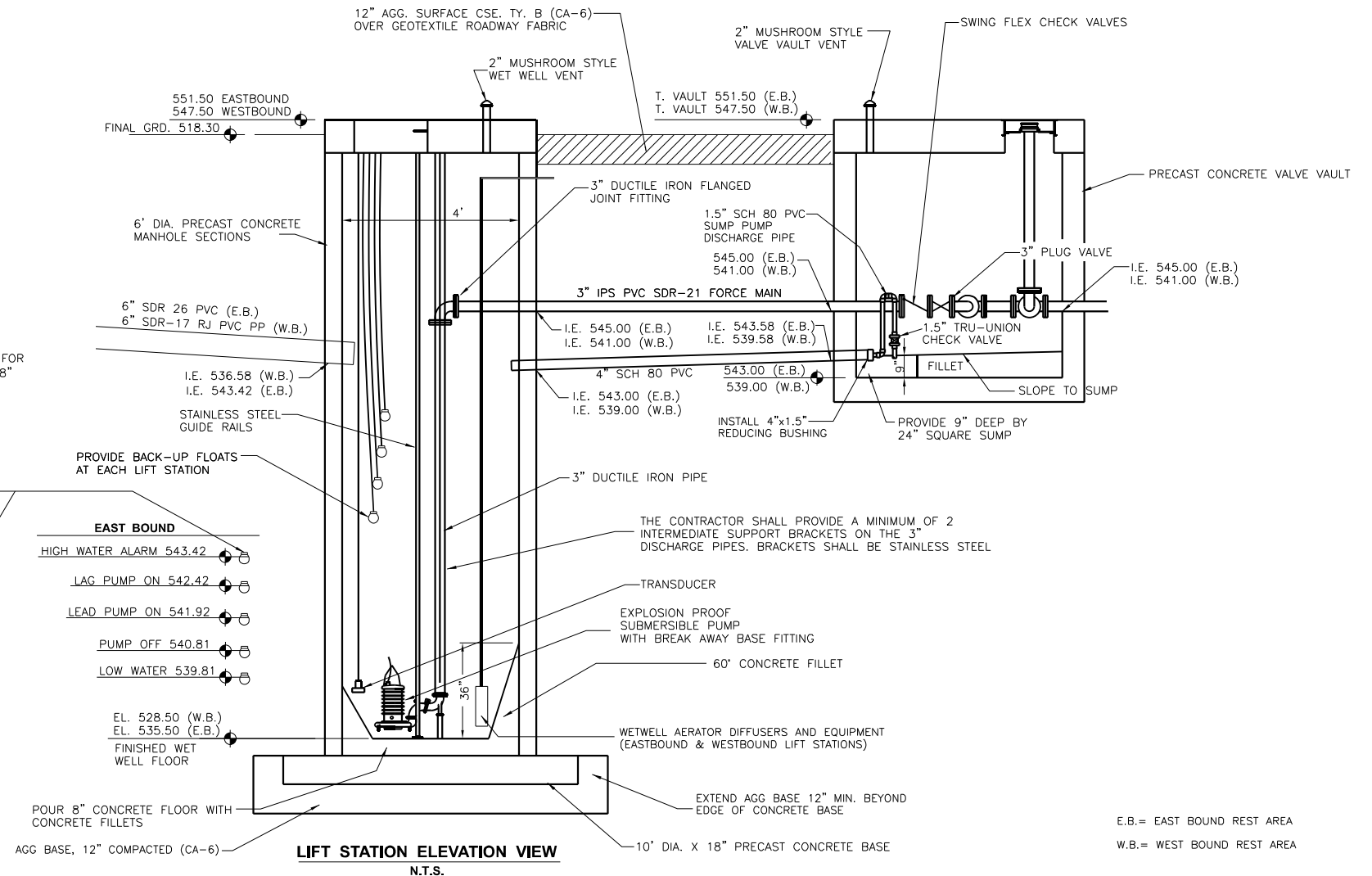
INSTALL 3" X 4" INCREASER ON THE EAST BOUND FORCE MAIN OUTSIDE OF VALVE VAULT

FLEXIBLE NON-SLAM CHECK VALVES  
 -FLANGED JOINT  
 -CLOSING DISC TO BE NYLON REINFORCED BUNA-N AND SHALL BE NON-SLAMMING  
 -DUCTILE IRON BODY  
 -OUTSIDE WEIGHTS AND SPRINGS ARE NOT ACCEPTABLE

ACCESS DOORS  
 -DRAINAGE FRAME WITH DRAIN PIPE ROUTED TO SUMP PIT FOR VALVE VAULT  
 -DOOR SHALL BE LOCKABLE



**LIFT STATION PLAN VIEW**  
N.T.S.



NOTE:  
 VALVE VAULT SHALL BE DESIGNED FOR GREATER THAN 100 psf FOR TOP AND NORMAL SOIL PRESSURES FOR WALLS, WITH MINIMUM 8" THICK TOP AND BOTTOM AND MINIMUM 6" THICK WALLS

INDICATES BACK-UP FLOATS

WEST BOUND	EAST BOUND
HIGH WATER ALARM 536.58	HIGH WATER ALARM 543.42
LAG PUMP ON 535.58	LAG PUMP ON 542.42
LEAD PUMP ON 535.08	LEAD PUMP ON 541.92
PUMP OFF 533.97	PUMP OFF 540.81
LOW WATER 532.97	LOW WATER 539.81

EASTBOUND= SANITARY SEWER LIFT STATION, LOCATION 1  
 WESTBOUND= SANITARY SEWER LIFT STATION, LOCATION 2

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**LIFT STATION DETAILS**

USER NAME = CHAMLIN	DESIGNED - DJD	REVISED -
	DRAWN - DS	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DATE -	REVISED -

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32,47) 4RA-4	GRUNDY	38	26
CONTRACT NO. 66L48			ILLINOIS FED. AID PROJECT	

MODEL: D:\p\h\...  
 FILE NAME: G:\Users\11111325-0940D0148D Three Rivers Rest Area Sanitary Sewer\Survey\32020CAD\_Sheets\03661481.dwg:ht:station-details.dwg





**Detail Bill of Material**

Project Name: IDOT 3 Rivers  
General Order No:

Negotiation No: D35F1103X1K1  
Alternate No: 0000

Item No.	Qty	Product	Description
1		Panelboards	30 Circuits, 400A, Fully Rated, 480Y/277V 3Ph 4W, Copper Bus, 14kAIC, 400A, 3P Frame 3 Main Breaker[Top Fed], Surface Mounted

Catalog No P22D400BT30CH01  
Designation MDP-EB

- Qty List of Materials
- 1 400A, 3P Frame 3 Main Breaker
  - 3 30A, 3P GHB Branch Breaker
  - 1 70A, 3P GHB Branch Breaker
  - 1 20A, 3P GHB Branch Breaker
  - 1 60A, 3P GHB Branch Breaker
  - 3 3P GHB Branch Provision Only
  - 1 100A, 3P GHB Branch Breaker
  - 1 Copper Main Bus, 400 Amps
  - 1 Std. Bolted Al Ground Bar (Al/Cu Cable)
  - 1 Panel Nameplate - White with Black Letters
  - 1 Type 1 Enclosure: EZB2060R
  - 1 EZ Trim, Door in Door, Concealed Hardware: EZT2060S

Item No.	Qty	Product	Description
2		Panelboards	42 Circuits, 100A, Fully Rated, 120/240V 1Ph 3W, Copper Bus, 10kAIC, 30A, 2P QBHW Main Breaker[Bottom Fed], Surface Mounted

Catalog No P21C100BB42CH3R  
Designation LS-LV

- Qty List of Materials
- 1 30A, 2P QBHW Main Breaker
  - 3 20A, 1P BAB Branch Breaker
  - 39 1P Branch Provision Only
  - 1 Copper Main Bus, 100 Amps
  - 1 Std. Bolted Al Ground Bar (Al/Cu Cable)
  - 1 Panel Nameplate - White with Black Letters
  - 1 Type 3R Enclosure: LWPQ2042

Item No.	Qty	Product	Description
1		SPD	SPD

Catalog No SPD050480Y1K  
Designation SPD-MDP

Catalog No SPD050480Y1K Qty 1 List of Materials  
Eaton SPD series050kA277/480VBasicNEMA 1



**Detail Bill of Material**

Project Name: IDOT 3 Rivers  
General Order No:

Negotiation No: D35F1103X1K1  
Alternate No: 0000

Item No.	Qty	Product	Description
2		Dry Type Transformers	Transformer Type: General Purpose Encapsulated

1 Phase, 5 KVA,  
1 K-Factor  
240 X 480 Primary Volts  
120/240 Secondary Volts  
Temperature Rise 115C  
Aluminum Winding Material  
Sound Reduction : 0  
NEMA ST-20 Audible Sound Level: 45  
UL Listed : Y  
OSHDP Compliant (verify mounting method in OSP)  
Enclosure Type: NEMA 3R Encapsulated  
Operating Frequency: 60 HZ

Catalog No S20N11S05N  
Designation LS-TF

Item No.	Qty	Product	Description
1		Safety Switches	Safety Switches

Catalog No DH365NRK-00NP

- Qty List of Materials
- 1 Single Throw - Heavy Duty - Fusible with Neutral, 3-Pole, 600 VAC, 400 A NEMA 3R
  - 1 Engraved & Mounted Plastic Nameplate
  - 1 Nameplate Line 1: Service Disconnect

Eaton Selling Policy 25-000 applies.

All orders must be released for manufacture within 90 days of date of order entry. If approval drawings are required, drawings must be returned approved for release within 60 days of mailing. If drawings are not returned accordingly, and/or if shipment is delayed for any reason, the price of the order will increase by 1.0% per month or fraction thereof for the time the shipment is delayed.

Seller shall not be responsible for any failure to perform, or delay in performance of, its obligations resulting from the COVID-19 pandemic or any future epidemic, and Buyer shall not be entitled to any damages resulting thereof.

MODEL: Default  
FILE NAME: C:\Users\11111325-09\Documents\Three Rivers Rest Area Station\_Survey\366148\Consultant\_Draft\Chamlin\_2020\CAD\_Sheets\0356148.dwg:electrical\details.dwg



USER NAME = CHAMLIN	DESIGNED - DJD	REVISED -
	DRAWN - DS	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DATE -	REVISED -

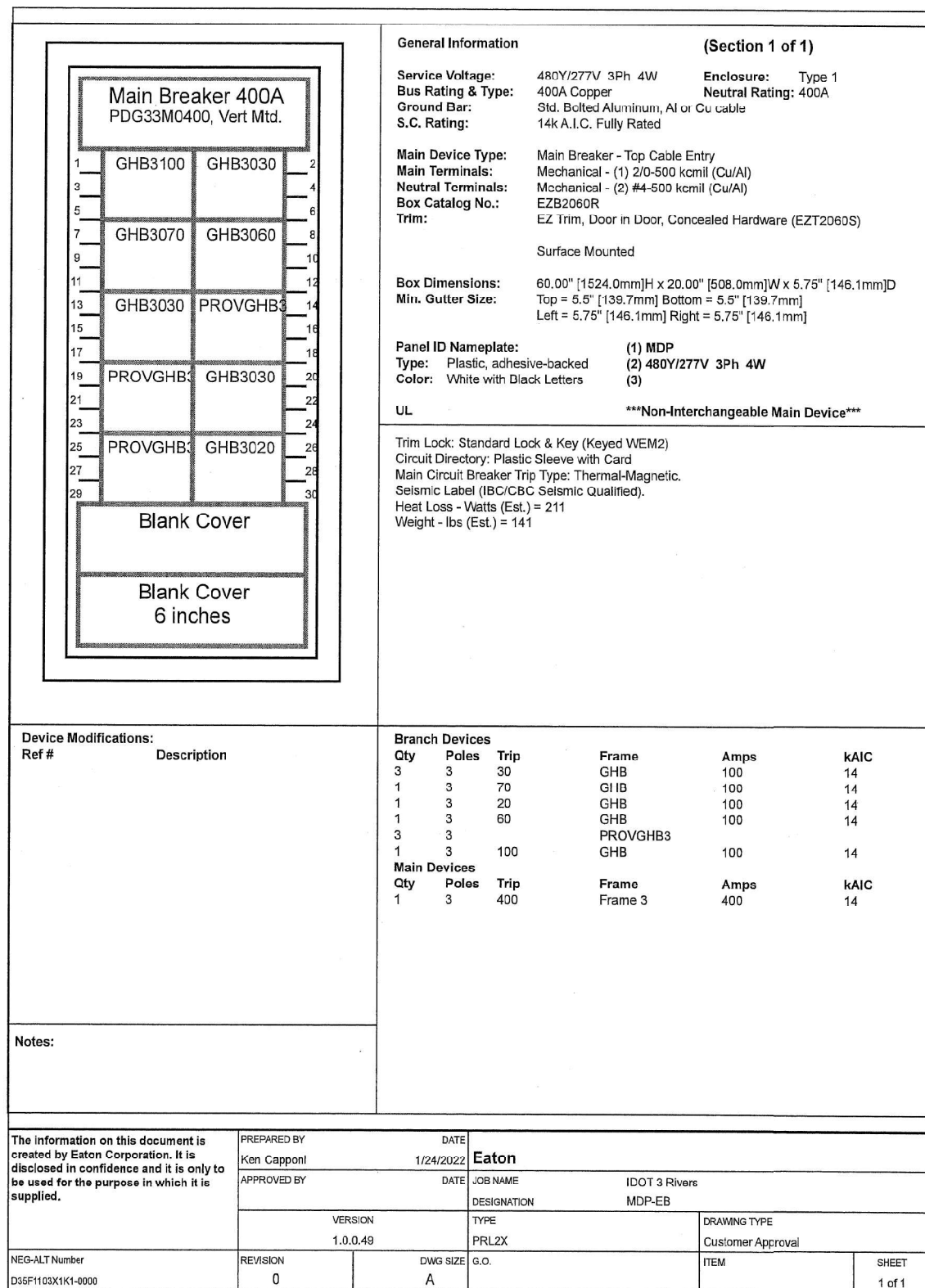
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ELECTRICAL DETAILS

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32,47) 4RA-4	GRUNDY	38	28
			66L48	
ILLINOIS FED. AID PROJECT				





**General Information (Section 1 of 1)**

**Service Voltage:** 480Y/277V 3Ph 4W **Enclosure:** Type 1  
**Bus Rating & Type:** 400A Copper **Neutral Rating:** 400A  
**Ground Bar:** Std. Bolted Aluminum, Al or Cu cable  
**S.C. Rating:** 14k A.I.C. Fully Rated

**Main Device Type:** Main Breaker - Top Cable Entry  
**Main Terminals:** Mechanical - (1) 2/0-500 kcmil (Cu/Al)  
**Neutral Terminals:** Mechanical - (2) #4-500 kcmil (Cu/Al)  
**Box Catalog No.:** EZB2060R  
**Trim:** EZ Trim, Door in Door, Concealed Hardware (EZT2060S)

Surface Mounted

**Box Dimensions:** 60.00" [1524.0mm]H x 20.00" [508.0mm]W x 5.75" [146.1mm]D  
**Min. Gutter Size:** Top = 5.5" [139.7mm] Bottom = 5.5" [139.7mm]  
 Left = 5.75" [146.1mm] Right = 5.75" [146.1mm]

**Panel ID Nameplate:** (1) MDP  
**Type:** Plastic, adhesive-backed (2) 480Y/277V 3Ph 4W  
**Color:** White with Black Letters (3)

**UL** \*\*\*Non-Interchangeable Main Device\*\*\*

Trim Lock: Standard Lock & Key (Keyed WEM2)  
 Circuit Directory: Plastic Sleeve with Card  
 Main Circuit Breaker Trip Type: Thermal-Magnetic.  
 Seismic Label (IBC/CBC Seismic Qualified).  
 Heat Loss - Watts (Est.) = 211  
 Weight - lbs (Est.) = 141

**Device Modifications:**

Ref #	Description

Notes:

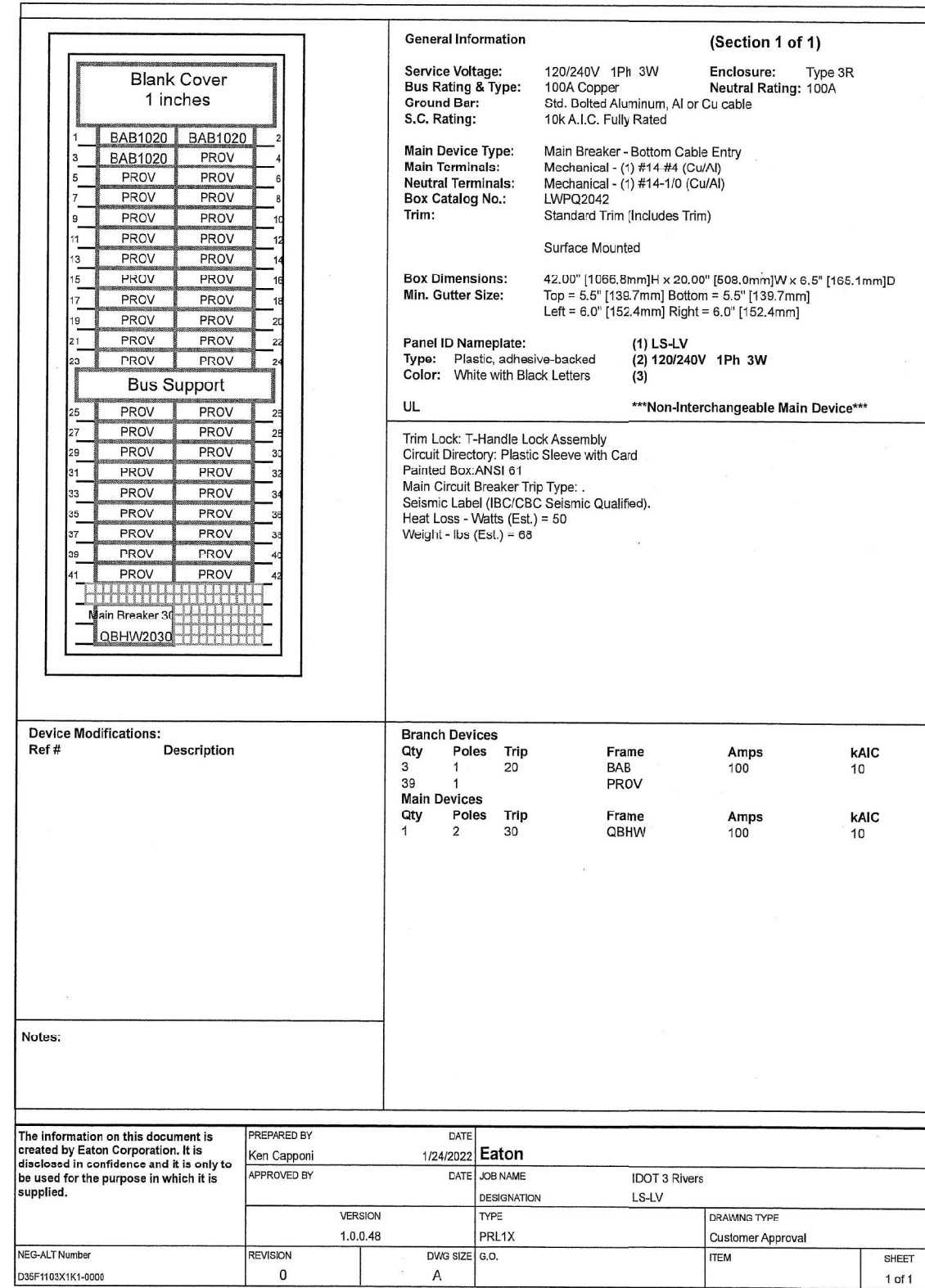
**Branch Devices**

Qty	Poles	Trip	Frame	Amps	kAIC
3	3	30	GHB	100	14
1	3	70	GIB	100	14
1	3	20	GHB	100	14
1	3	60	GHB	100	14
3	3		PROVGHB3		
1	3	100	GHB	100	14

**Main Devices**

Qty	Poles	Trip	Frame	Amps	kAIC
1	3	400	Frame 3	400	14

The information on this document is created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is supplied.	PREPARED BY Ken Capponi	DATE 1/24/2022	<b>Eaton</b>		
	APPROVED BY	DATE	JOB NAME IDOT 3 Rivers	DESIGNATION MDP-EB	
	VERSION 1.0.0.49	TYPE PRL2X	DRAWING TYPE Customer Approval		
NEG-ALT Number D35F1103X1K1-0000	REVISION 0	DWG SIZE A	G.O.	ITEM	SHEET 1 of 1



**General Information (Section 1 of 1)**

**Service Voltage:** 120/240V 1Ph 3W **Enclosure:** Type 3R  
**Bus Rating & Type:** 100A Copper **Neutral Rating:** 100A  
**Ground Bar:** Std. Bolted Aluminum, Al or Cu cable  
**S.C. Rating:** 10k A.I.C. Fully Rated

**Main Device Type:** Main Breaker - Bottom Cable Entry  
**Main Terminals:** Mechanical - (1) #14 #4 (Cu/Al)  
**Neutral Terminals:** Mechanical - (1) #14-1/0 (Cu/Al)  
**Box Catalog No.:** LWPQ2042  
**Trim:** Standard Trim (Includes Trim)

Surface Mounted

**Box Dimensions:** 42.00" [1066.8mm]H x 20.00" [508.0mm]W x 6.5" [165.1mm]D  
**Min. Gutter Size:** Top = 5.5" [139.7mm] Bottom = 5.5" [139.7mm]  
 Left = 6.0" [152.4mm] Right = 6.0" [152.4mm]

**Panel ID Nameplate:** (1) LS-LV  
**Type:** Plastic, adhesive-backed (2) 120/240V 1Ph 3W  
**Color:** White with Black Letters (3)

**UL** \*\*\*Non-Interchangeable Main Device\*\*\*

Trim Lock: T-Handle Lock Assembly  
 Circuit Directory: Plastic Sleeve with Card  
 Painted Box: ANSI 61  
 Main Circuit Breaker Trip Type: .  
 Seismic Label (IBC/CBC Seismic Qualified).  
 Heat Loss - Watts (Est.) = 50  
 Weight - lbs (Est.) = 68

**Device Modifications:**

Ref #	Description

Notes:

**Branch Devices**

Qty	Poles	Trip	Frame	Amps	kAIC
3	1	20	BAB	100	10
39	1		PROV		

**Main Devices**

Qty	Poles	Trip	Frame	Amps	kAIC
1	2	30	QBHW	100	10

The information on this document is created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is supplied.	PREPARED BY Ken Capponi	DATE 1/24/2022	<b>Eaton</b>		
	APPROVED BY	DATE	JOB NAME IDOT 3 Rivers	DESIGNATION LS-LV	
	VERSION 1.0.0.48	TYPE PRL1X	DRAWING TYPE Customer Approval		
NEG-ALT Number D35F1103X1K1-0000	REVISION 0	DWG SIZE A	G.O.	ITEM	SHEET 1 of 1

MODEL: Default  
FILE NAME: C:\Users\jchamlin\OneDrive\Desktop\IDOT\3 Rivers Rest Area\_South\SevierSurvey\_D35F1103X1K1-0000\_Sheet1(D35F1103X1K1-0000)ElectricalDetails.dwg



USER NAME = CHAMLIN	DESIGNED - DJD	REVISED -
PLOT SCALE =	DRAWN - DS	REVISED -
PLOT DATE =	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**ELECTRICAL DETAILS**

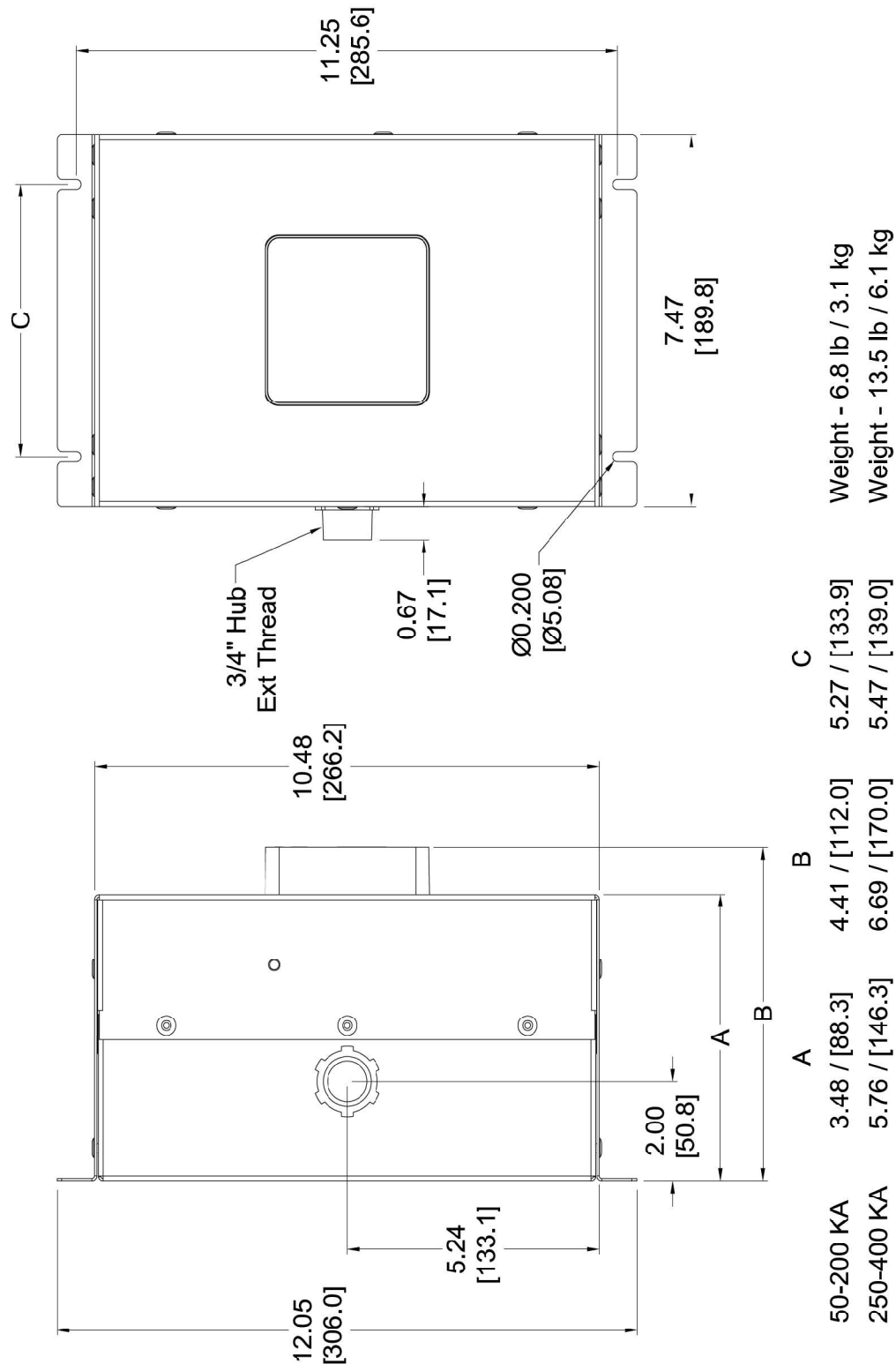
SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32,47) 4RA-4	GRUNDY	38	29
ILLINOIS FED. AID PROJECT			66L48	

MODEL: Default  
 FILE NAME: C:\Users\11111325-09\Documents\Three Rivers Rest Area\_SitePlan\_SevenSurvey\_D35F1103X1K1-0000\_Sheet1(D35F1103X1K1-0000)Sheet1.dwg  
 DATE: 1/24/2022 11:11:11 AM



GO/NEG-Alt-Date: D35F1103X1K1-0000-1/24/2022		Job Name: IDOT 3 Rivers
Item Number:	Catalog Number: SPD050480Y1K	Designation: SPD-MDP



50-200 KA    3.48 / [88.3]    4.41 / [112.0]    5.27 / [133.9]    Weight - 6.8 lb / 3.1 kg  
 250-400 KA    5.76 / [146.3]    6.69 / [170.0]    5.47 / [139.0]    Weight - 13.5 lb / 6.1 kg

SPD SIDEMT SGI/DBL NEMA 1  
 MKT-DL-10-002

**Dry-Type Transformers General Information**

- Standard Transformer Catalog Number: S20N11S05N
- Transformer Type: General Purpose Encapsulated
- Phase: 1
- KVA: 5
- Primary Volts: 240 X 480
- Secondary Volts: 120/240
- Temperature Rise: 115C
- Winding Material: Aluminum
- Enclosure Type: NEMA 3R Encapsulated
- Frequency (Hz): 60
- Frame: 177
- Wiring Diagram: 3A
- Weight (lbs.): 107
- Impedance (%): 2.6
- UL Listed: Y
- OSHPD Compliant (verify mounting method in OSP): Y

**Standard Values**

- K-Factor: 1
- TAPS: None
- Sound Reduction (dB): 0
- NEMA ST20 Sound Level (dB): 45
- Infrared Viewing Window: None

**Field-Installed Accessories Included**

- Lug Kit: Not Included

The information on this document is created by Eaton. It is disclosed in confidence and it is only to be used for the purpose in which it is supplied.	PREPARED BY Ken Capponi	DATE 1/24/2022	<b>Eaton</b>	
	APPROVED BY	DATE	JOB NAME IDOT 3 Rivers	DESIGNATION LS-TF
	VERSION 1.0.0.4		TYPE Dry-Type Transformer	DRAWING TYPE Customer Appr.
NEG-ALT Number D35F1103X1K1-0000	REVISION 0	DWG SIZE A	G.O.	ITEM SHEET 1 of 1

USER NAME = CHAMLIN	DESIGNED - DID	REVISED -
PLOT SCALE =	DRAWN - DS	REVISED -
PLOT DATE =	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

ELECTRICAL DETAILS  
 SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32,47) 4RA-4	GRUNDY	38	30
66L48				
ILLINOIS FED. AID PROJECT				



**Safety Switch General Information**

Global Specifications

System Voltage	600 VAC
Switch Type	Single Throw - Heavy Duty
Poles/Blades	3-Pole
Amperage	400
Protection	Fusible with Neutral
Enclosure Type	NEMA 3R
Special Paint	ANSI-61 (Gray) Standard
Fuse Clips	"H" Fuse Clips
Switch Lugs	(2) 1/0-300 or (1) 1/0-750
Fungus Proof Treatment	None
Lock-On Provision	None
Trapped Key Interlock	None
Fuse Pullers	None
Control Pole	None
Ground Lugs	(2) 6-250
Stainless Mechanism	None
Mill Duty	None

Cover Controls

QUANTITY	DESCRIPTION
----------	-------------

Nameplate

First Line:	Service Disconnect
-------------	--------------------

Safety Switch Catalog No.

DH365NRK-00NP

The information on this document is created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is supplied.

PREPARED BY Keri Capporini APPROVED BY DATE 1/24/2022	DATE 1/24/2022		<b>Eaton</b>		
	JOR NAME IDOT 3 Rivers		DESIGNATION		
	VERSION 1.0.1.3		TYPE Safety Switch General Information	DRAWING TYPE Customer Appr.	
NEG-ALT Number D35F1103X1K1-0000	REVISION 0	DWG SIZE A	G.O.	ITEM	SHEET 1 of 1

MODEL: Default  
 FILE NAME: C:\Users\kcaporin1\1111325-09\DOT-480 Three Rivers Rest Area Station Survey\Drawings\Sheet1(D35F1103X1K1-0000)Sheet1.dwg



USER NAME = CHAMLIN	DESIGNED - DJD	REVISED -
	DRAWN - DS	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

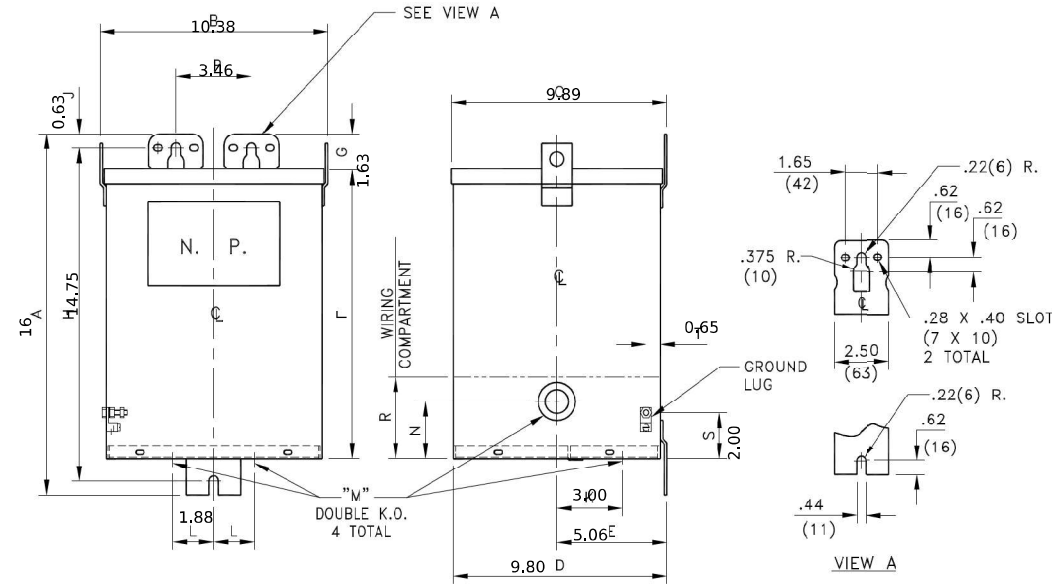
**ELECTRICAL DETAILS**

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32,47) 4RA-4	GRUNDY	38	32
66L48				
ILLINOIS FED. AID PROJECT				

REF.  
DWG NO 7074C18H02

- NOTES:**
1. TYPE EP GENERAL PURPOSE TRANSFORMER.
  2. SINGLE P-HASE RES N ENCAPSULATED.
  3. SUITABLE FOR INDOOR/OUTDOOR APPLICATIONS.
  4. COPPER OR ALUMINUM WINDINGS. 180°C INSULATION SYSTEM WITH 115°C RISE; OPTIONAL AS 80°C RISE.
  5. ALL UNITS ARE DESIGNED IN ACCORDANCE WITH APPLICABLE NEMA, UL, ANSI, CSA AND IEEE STANDARDS.
  6. KO'S SHOWN ON THIS DRAWING ONLY AVAILABLE ON CARBON STEEL ENCLOSURES.



DIMENSIONS IN in(mm)

FRAME	A	B	C	D	E	F	G	H
FR177	16.00(406)	10.38(264)	9.89(251)	9.80(249)	5.06(129)	12.82(326)	1.63(41)	14.75(375)
	J	K	L	M	N	P	R	
	.63(16)	3.00(76)	1.88(48)	.75, 1.25(19, 32)	2.50(64)	5.46(88)	5.61(92)	
	S	T						
	2.00(51)	.65(17)						

REV 4 APR/15

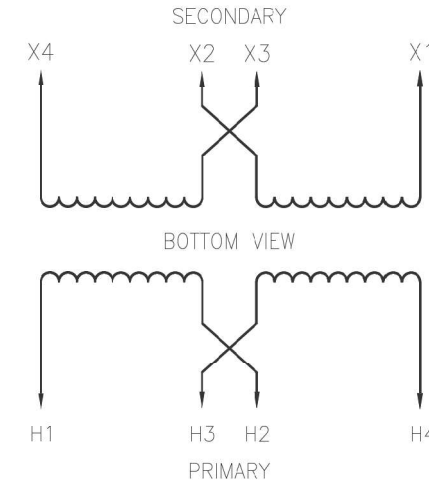
THIS DIMENSION DRAWING IS FOR REFERENCE ONLY. IT IS NOT TO BE REGARDED AS INDICATING THE EXACT DETAILS OF CONSTRUCTION.

PRODUCT CODE:	FEDERAL ID NO.:	JFTR J.J.F.	DATE 08/14/00	THE INFORMATION ON THIS DOCUMENT WAS CREATED BY EATON CORPORATION. IT WAS DISCLOSED IN CONFIDENCE AND IS ONLY TO BE USED FOR THE PURPOSE IN WHICH IT WAS SUPPLIED.	<b>EATON</b>
		APPD C.S.	DATE 08/17/00	TITLE EP DRY TYPE TRANSFORMER OUTLINE	
4 FCN090114	J.C.S. C.B.	28/APR/15	S.O.	TYPE TRANSFORMER	OUTLINE
REV	DESCRIPTION	DFTR	APPD	DATE	REVISION
					04
					G.O.
					DWG
					FR177
					SHEET 1 OF 01

GO/NEG-Alt-Date: D35F1103X1K1-0000-1/24/2022	Job Name: IDOT 3 Rivers
Item Number: S20N11S05N	Designation: LS-TF

FIGURE 3A

WDG	VOLTS	CONNECT	LINE
PRI	480	F-2-H3	H1-H4
	240	H1F-3-H2H4	H1-H4
SEC	240	X2-X3	X1-X4
	120	X1X3-X2X4	X1-X4
	120/240	X2-X3 X	X1-X3-X4



\* THREE WIRE OPERATION



GO/NEG-Alt-Date: D35F1103X1K1-0000-1/21/2022	Job Name: IDOT 3 Rivers
Item Number: S20N11S05N	Designation: LS-TF

MODEL: Default  
FILE NAME: C:\Users\11111335-09\Documents\Three Rivers Rest Area Station\_ServSurvey\Drawings\Sheet\Drawings\2020\CAD\_Sheets\Drawings\Sheet\Drawings\7074C18H02.dwg



USER NAME = CHAMLIN	DESIGNED - DJD	REVISED -
PLOT SCALE =	DRAWN - DS	REVISED -
PLOT DATE =	CHECKED -	REVISED -
	DATE -	REVISED -

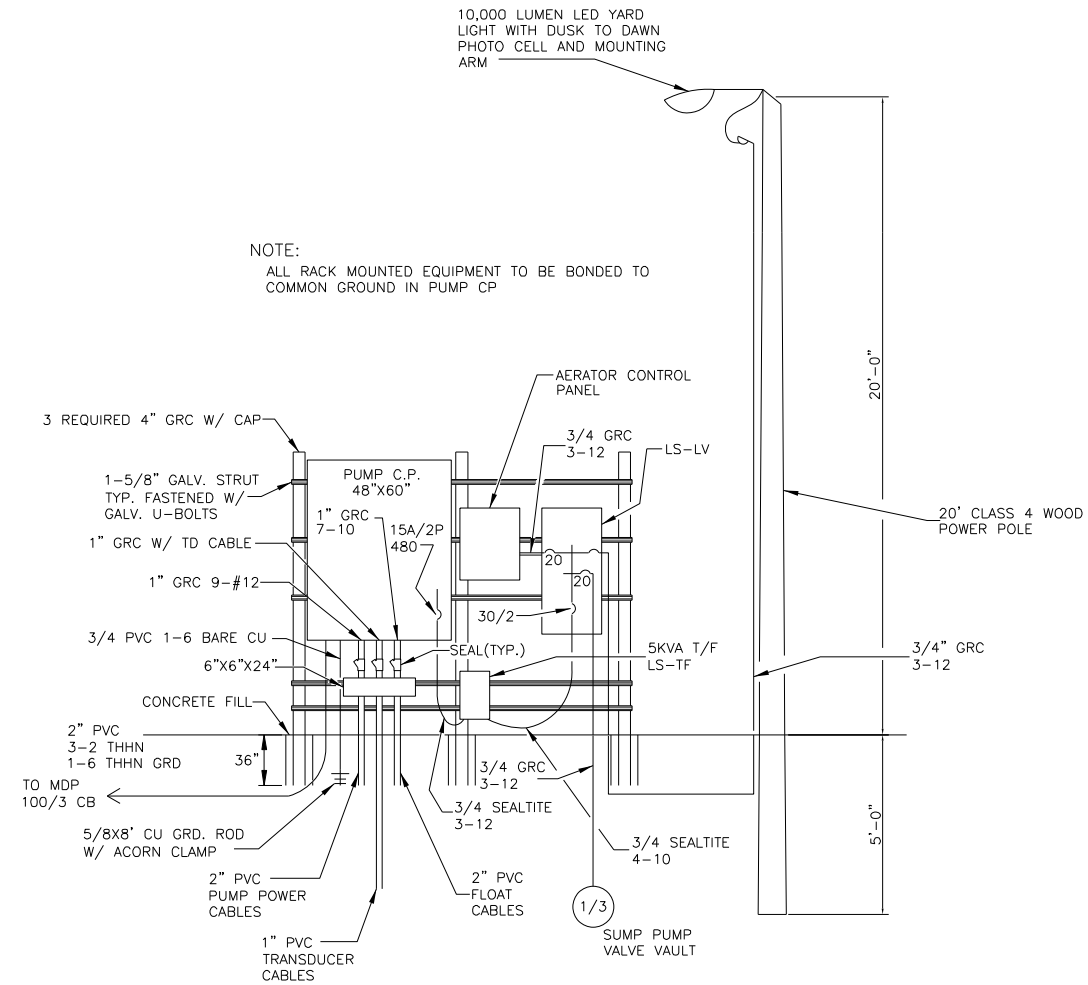
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ELECTRICAL DETAILS

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32,47) 4RA-4	GRUNDY	38	33
			CONTRACT NO. 66L48	
			ILLINOIS FED. AID PROJECT	

EAST AND WEST BOUND



NOTE:  
ALL RACK MOUNTED EQUIPMENT TO BE BONDED TO COMMON GROUND IN PUMP CP

MODEL: Default  
FILE NAME: C:\Users\11111325-09\Documents\Three Rivers Rest Area\_Southon\_SewerSurvey\_D3661481\Consultant\_Dat\Chamlin\_2020\CAD\_Sheet1(D3661481)electrical\detail.dwg



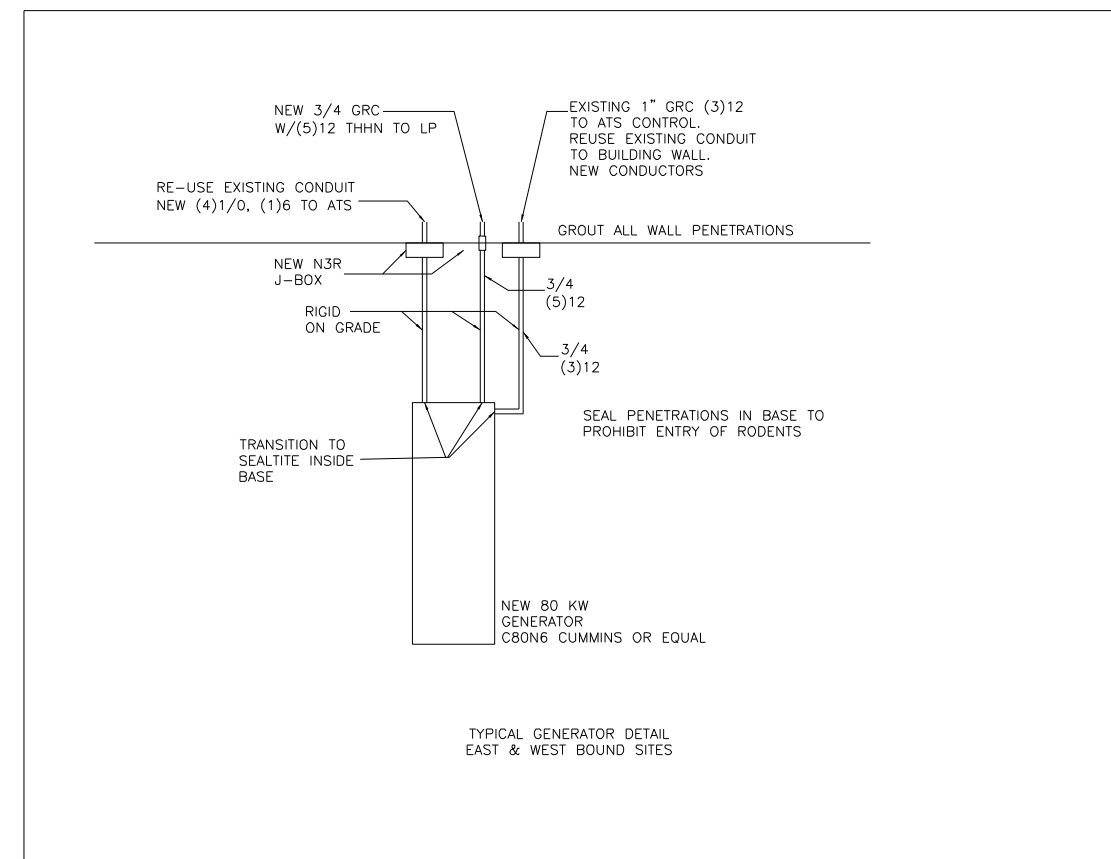
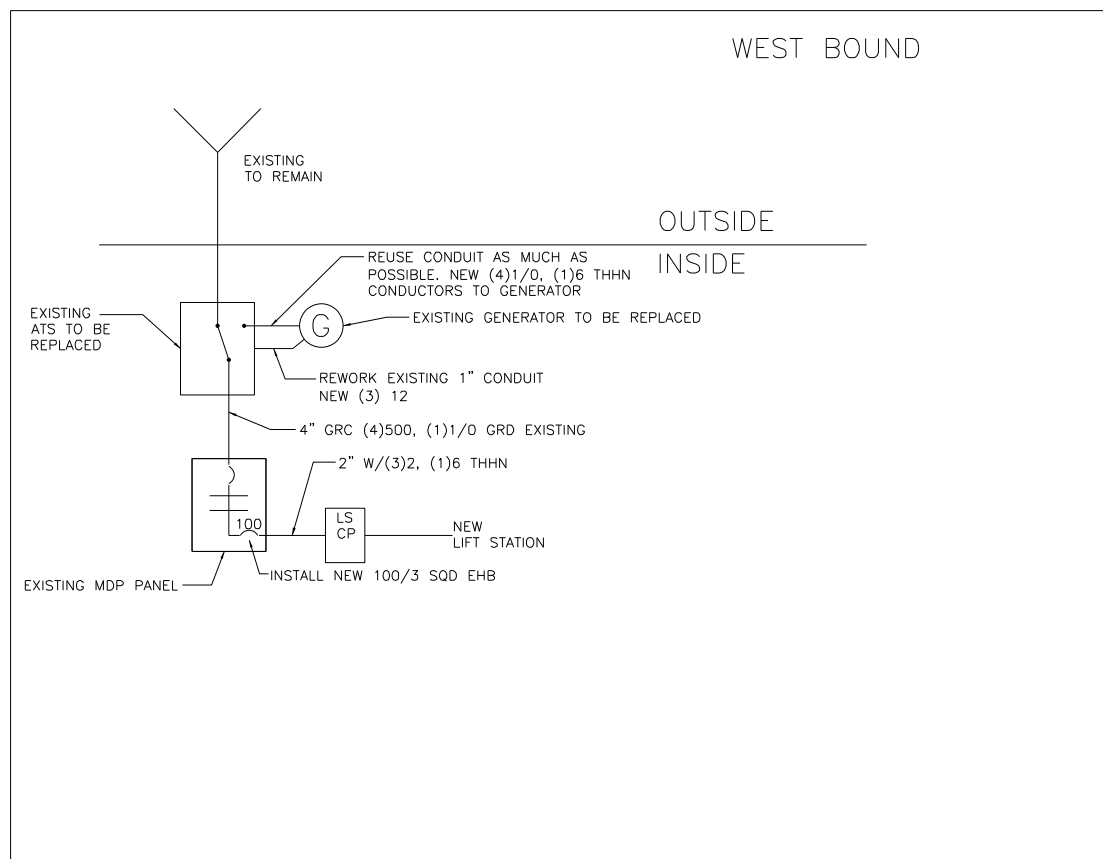
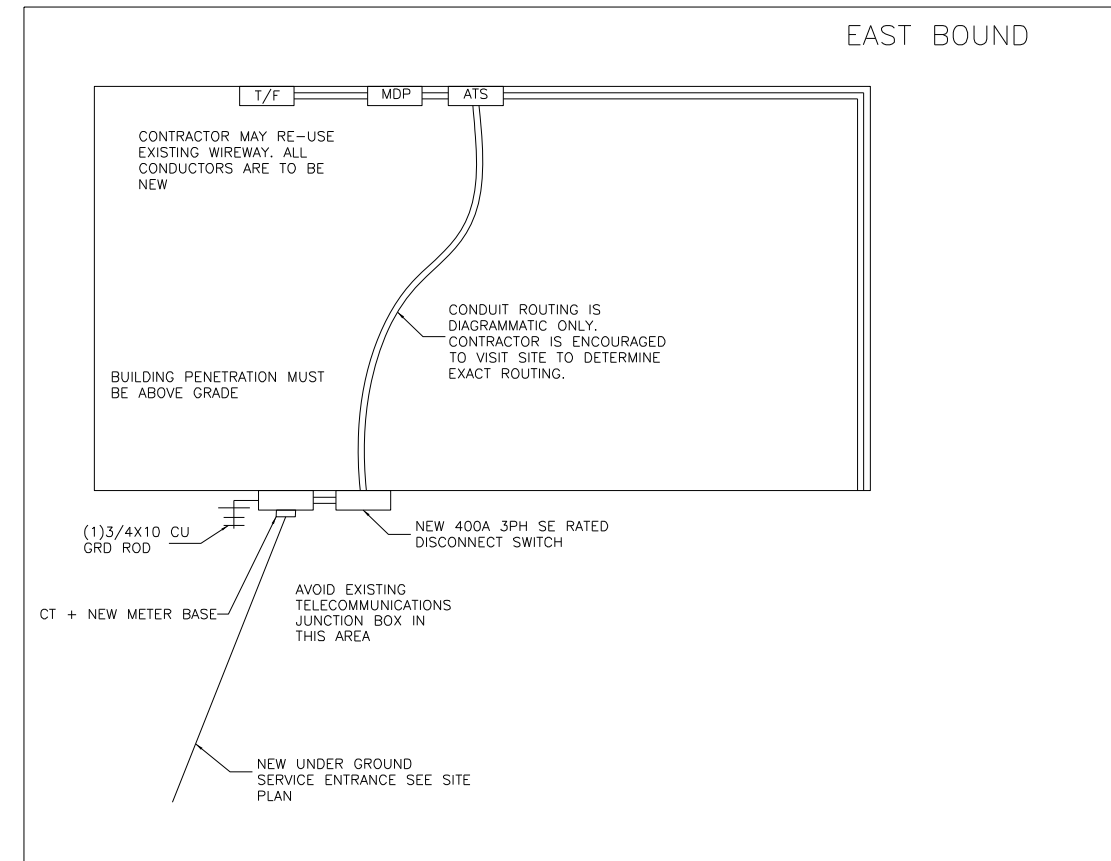
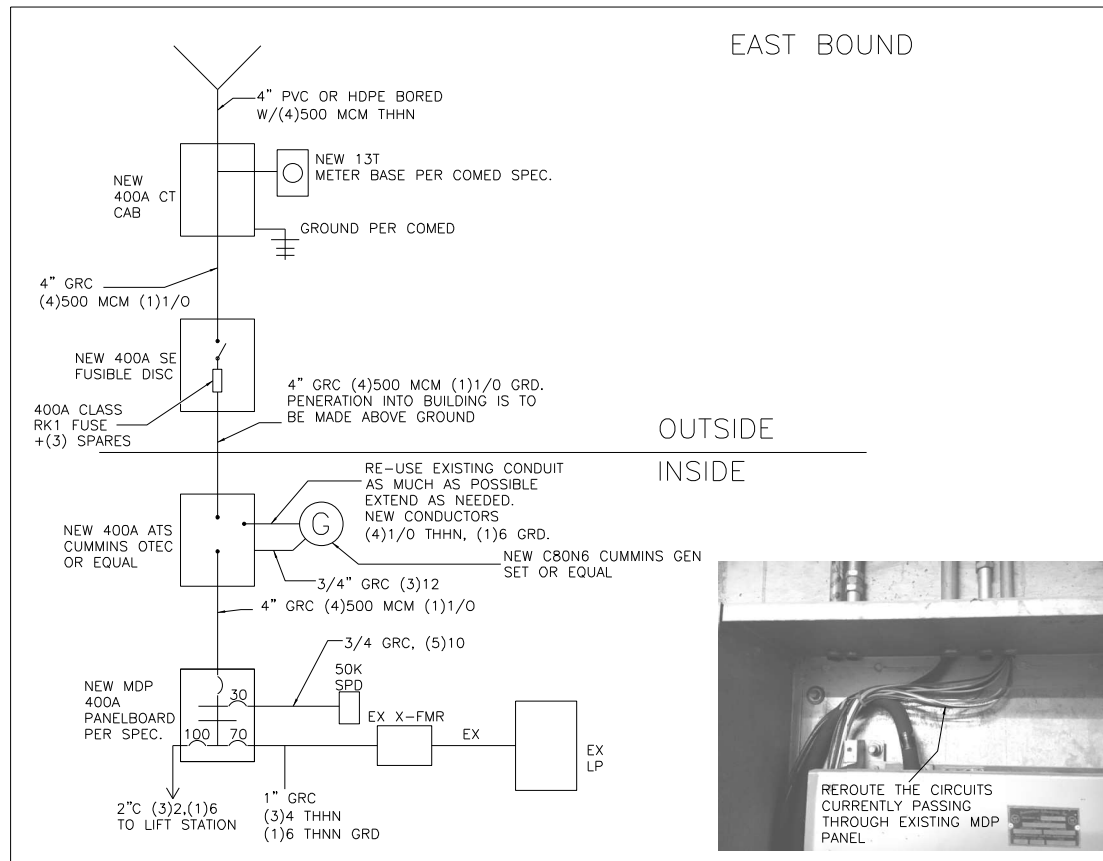
USER NAME = CHAMLIN	DESIGNED - DJD	REVISED -
	DRAWN - DS	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ELECTRICAL DETAILS

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32,47) 4RA-4	GRUNDY	38	34
CONTRACT NO. 66L48				
ILLINOIS FED. AID PROJECT				



MODEL Default  
 FILE NAME: C:\Users\G\Documents\Projects\Three Rivers Rest Area\_Sanitary\_SewerSurvey\Drawings\Chamlin\_2020\CAD\_Sheets\056148-dtr-electrical\details.dwg



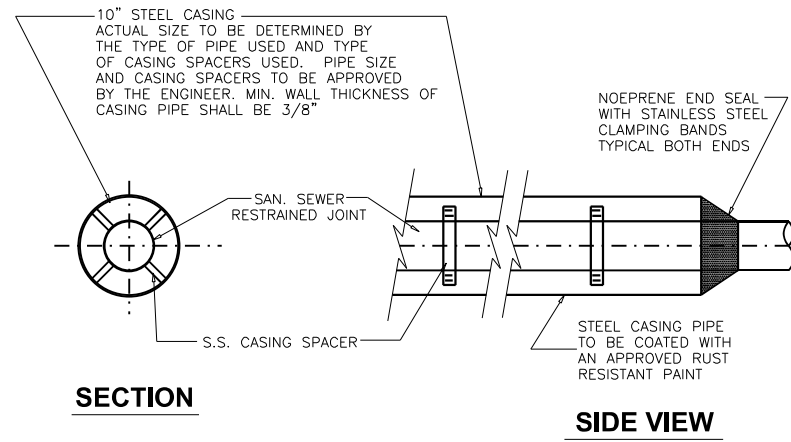
USER NAME = CHAMLIN	DESIGNED - DJD	REVISED -
PLOT SCALE =	DRAWN - DS	REVISED -
PLOT DATE =	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

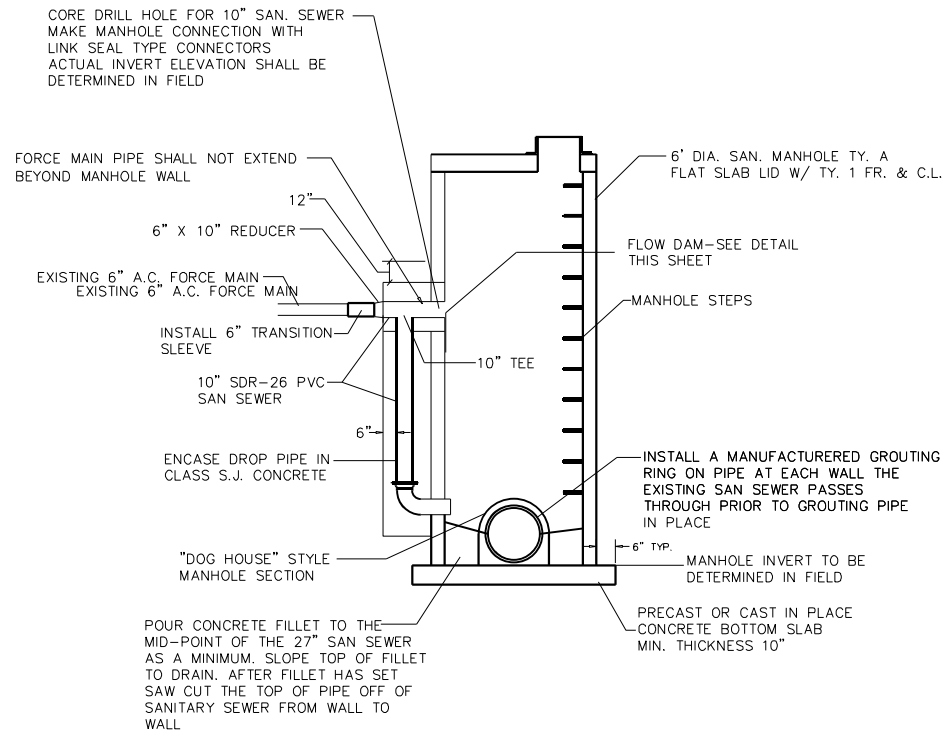
**ELECTRICAL DETAILS**

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32,47) 4RA-4	GRUNDY	38	35
66L48				
ILLINOIS FED. AID PROJECT				



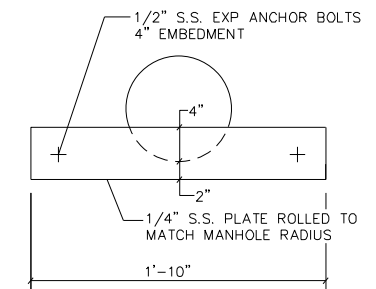
**STEEL CASING DETAIL**  
NOT TO SCALE



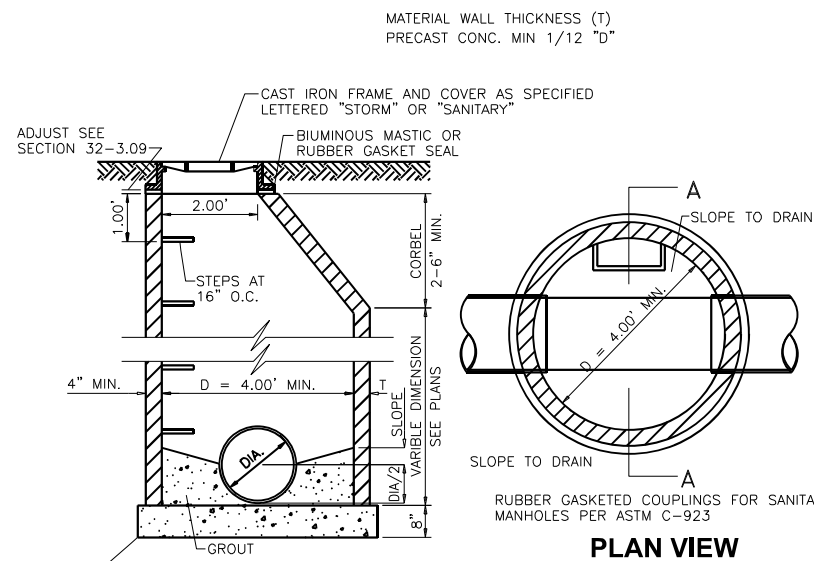
**SANITARY MANHOLE SPECIAL EXTERNAL DROP CONNECTION DETAIL**  
NOT TO SCALE

MINOOKA ROAD AT CARGO COURT

NOTES:  
THE VERTICAL DROP CONNECTION SHALL BE ENCASED IN CONCRETE TO THE BOTTOM OF THE TEE  
APPLY A MODIFIED POLYMER LINING SYSTEM TO PROTECT MANHOLE FROM HYDROGEN SULFIDES



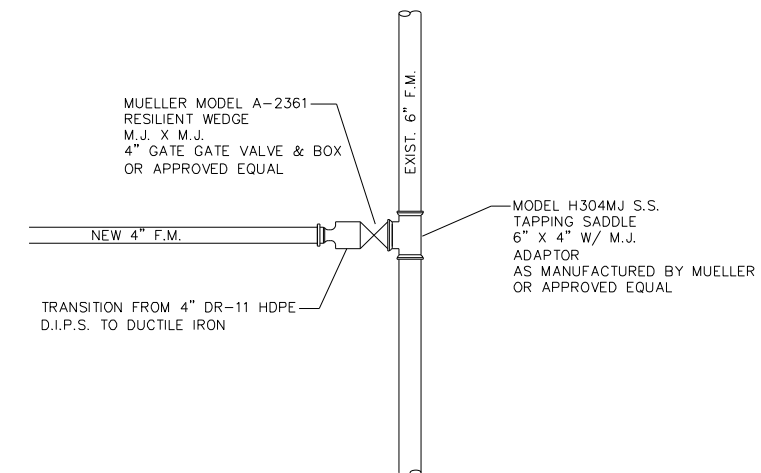
**FLOW DAM DETAIL**  
NOT TO SCALE



**SANITARY MANHOLE TYPE A**  
NOT TO SCALE

NOTE: STEPS REQUIRED, UNLESS DELETED BY SPECIAL PROVISIONS  
NOTE: SEPARATE SANITARY SEWER MANHOLES SUBJECT TO SATURATED SOIL CONDITIONS OR SURFACE SUBMERGENCE SHALL BE EQUIPPED WITH CHIMNEY SEALS AND WATER TIGHT MANHOLE COVERS.

STA. 10+62  
STA. 200+00  
STA. 200+83



**LIVE TAP CONNECTION DETAIL**  
NOT TO SCALE

MODEL: D:\p\11111325-00\DOT-480 Three Rivers Rest Area Sanitary Sewer Survey D366.dwg Consultant: D:\p\11111325-00\DOT-480 Three Rivers Rest Area Sanitary Sewer Survey D366.dwg



USER NAME = CHAMLIN	DESIGNED - DJD	REVISED -
PLOT SCALE =	DRAWN - DS	REVISED -
PLOT DATE =	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

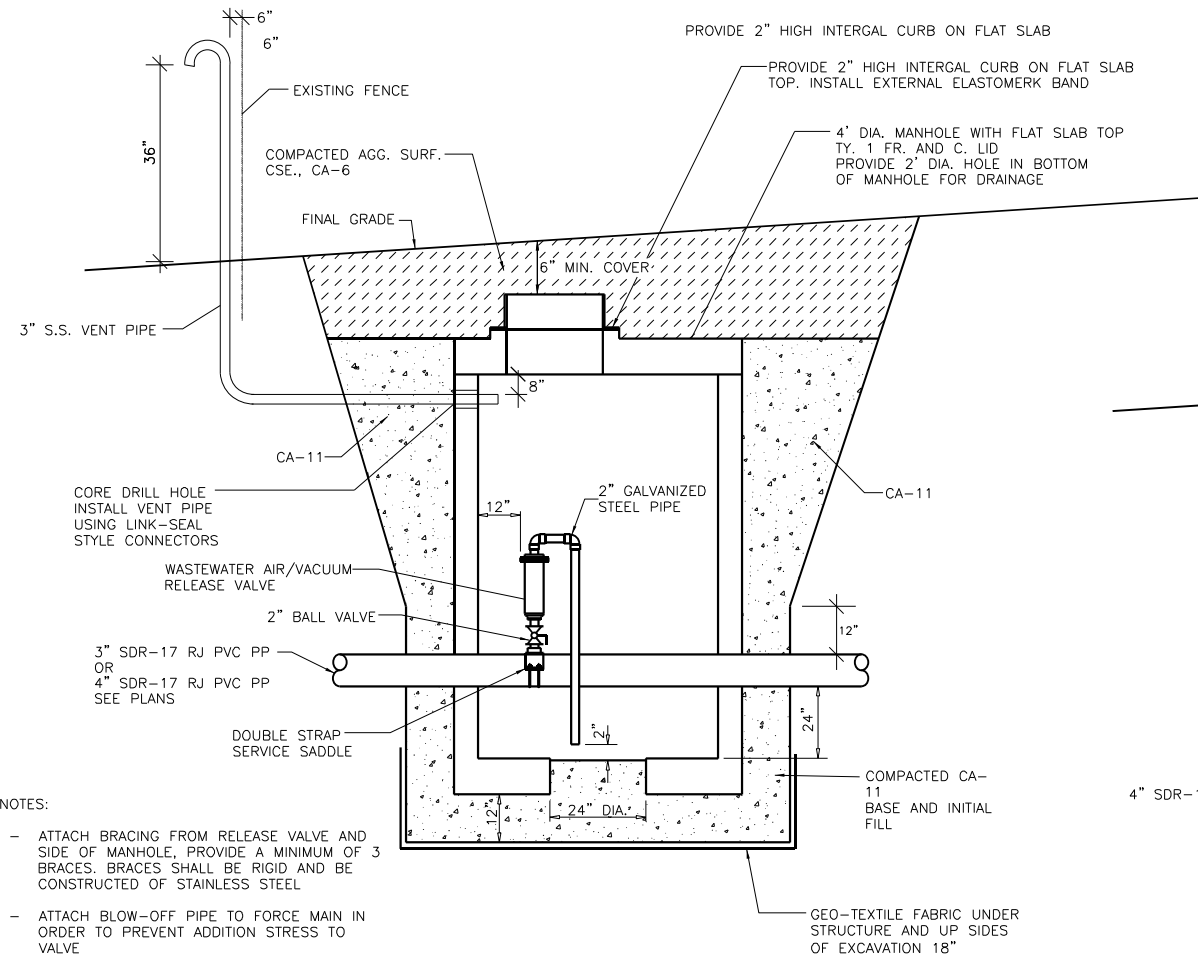
**DETAILS**

SCALE: SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32,47) 4RA-4	GRUNDY	38	36
CONTRACT NO. 66L48				
ILLINOIS FED. AID PROJECT				



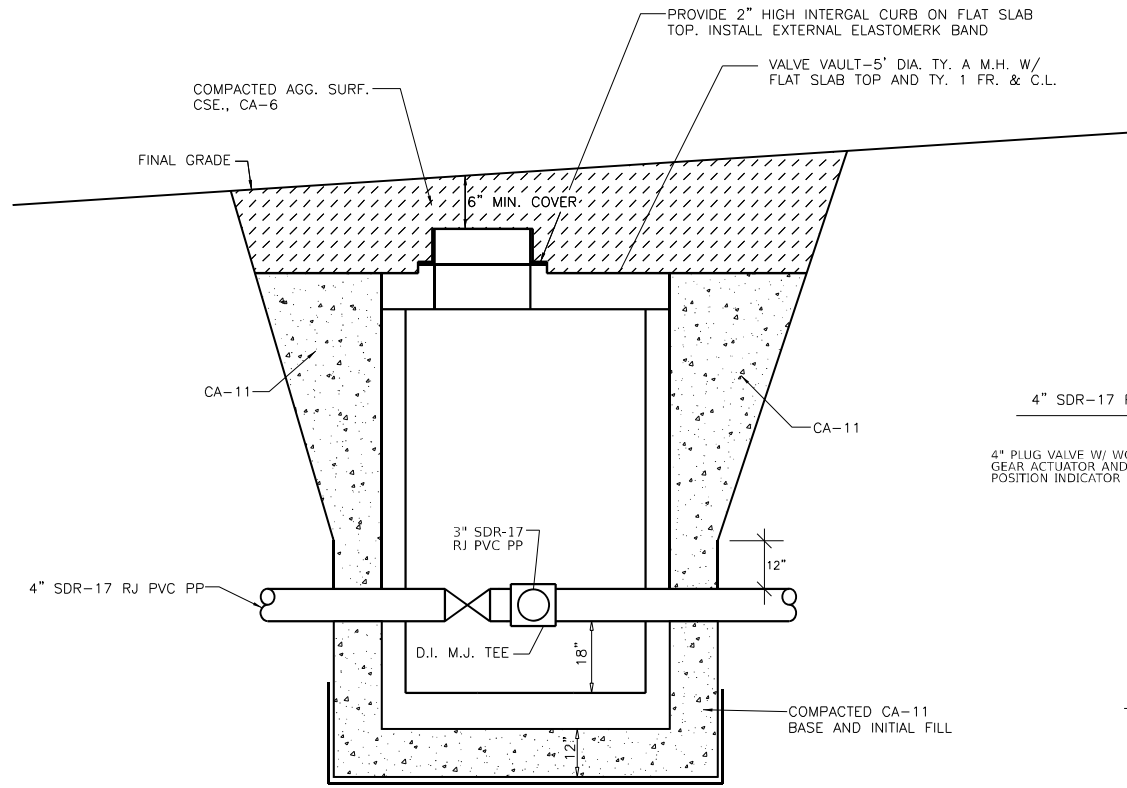
MODEL: D:\p\11111325-09\DOT-480 Three Rivers Rest Area\_Southon\_SewerSurvey\_D3868.dwg  
 FILE NAME: C:\Users\11111325-09\DOT-480 Three Rivers Rest Area\_Southon\_SewerSurvey\_D3868.dwg  
 SHEET: 37 OF 38



- NOTES:
- ATTACH BRACING FROM RELEASE VALVE AND SIDE OF MANHOLE, PROVIDE A MINIMUM OF 3 BRACES. BRACES SHALL BE RIGID AND BE CONSTRUCTED OF STAINLESS STEEL
  - ATTACH BLOW-OFF PIPE TO FORCE MAIN IN ORDER TO PREVENT ADDITION STRESS TO VALVE

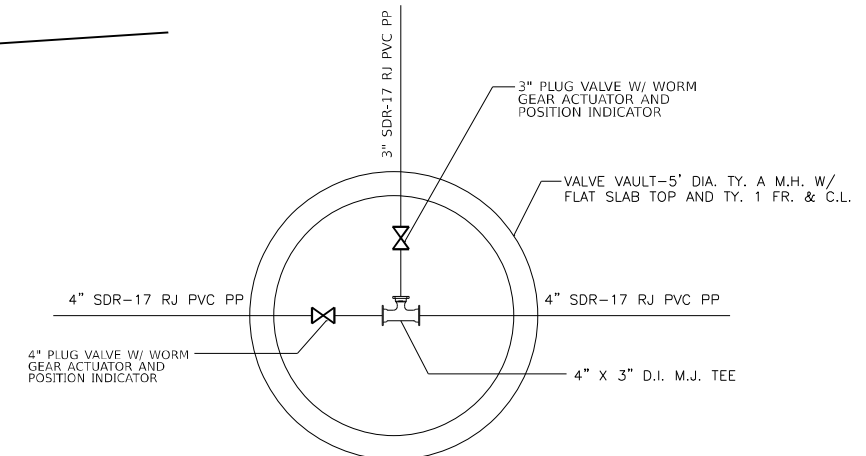
**AIR RELEASE / VACUM BREAKER VALVE DETAIL**

NOT TO SCALE  
 STA. 45+36  
 STA. 88+95



**VALVE VAULT DETAIL - ELEVATION VIEW** (STA. 89+00.11)

NOT TO SCALE  
 STA. 89+00



**VALVE VAULT DETAIL - PLAN VIEW**

NOT TO SCALE

NOTE: VALVES SHALL BE ARRANGED AS CLOSE TO 4" X 3" TEE AS PRACTICAL



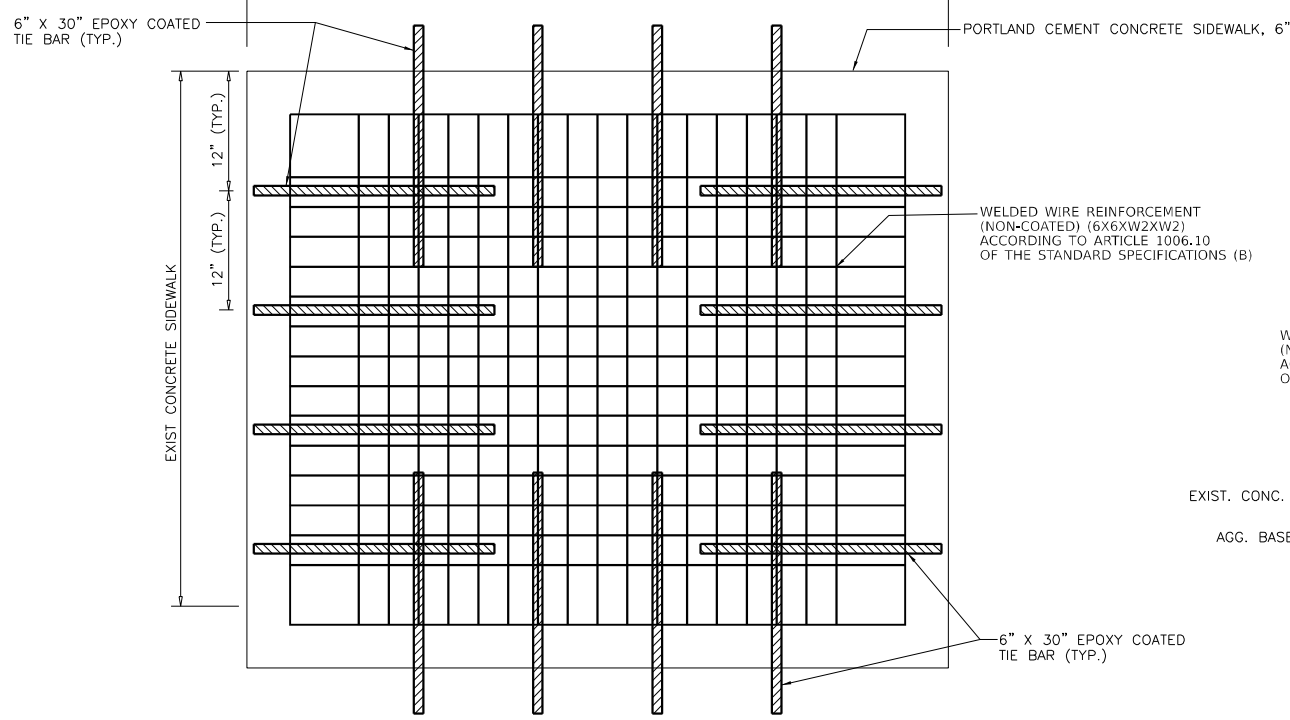
USER NAME = CHAMLIN	DESIGNED - DJD	REVISED -
PLOT SCALE =	DRAWN - DS	REVISED -
PLOT DATE =	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>DETAILS</b>			
SCALE:	SHEET 2	OF 3	SHEETS
	STA.		TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32,47) 4RA-4	GRUNDY	38	37
CONTRACT NO. 66L48				
ILLINOIS FED. AID PROJECT				

MODEL: D:\p\11111325-09-04\DOT-480 Three Rivers Rest Area\_Sanitary\_Sewer\Survey\33661.dwg; Consultant: D:\p\11111325-09-04\DOT-480 Three Rivers Rest Area\_Sanitary\_Sewer\Survey\33661.dwg; Sheet: 03661.dwg; Date: 11/11/2020



**SIDEWALK DETAILS**  
NOT TO SCALE

CLEAR, FIRE-RESISTANT POLYCARBONATE SO AS TO ENSURE MAXIMUM VISIBILITY FROM BOTH SIDES WITHOUT OBSTRUCTION.

THE TERMINAL SHALL FIT 3.5" OD RISER PIPE, HAVE A HIGH IMPACT RESISTANCE, AND 12 POSSIBLE TERMINAL PORTS.

THE TERMINAL SHALL BE FITTED WITH NICKEL PLATED BINDING POSTS WITH EXCELLENT CORROSION RESISTANCE

**DIMENSIONS**  
THE TERMINAL BOARD SHALL BE 5.3" X 3.52" (134.6 MM X 89.4 MM), IT SHALL FIT AROUND A POST OF 3.5" OD. THE TOP HAT SHALL BE 5.1" X 4.4" (129.5 MM X 111.75 MM), IT SHALL FIT ON TOP OF THE TERMINAL BOARD.

**MECHANICAL PROPERTIES**  
THE POST, TERMINAL BOARD AND TOP COVER SHALL HAVE THE FOLLOWING MECHANICAL PROPERTIES:

PROPERTY	ISO	DIN	UNIT	TEST METHOD	TYPICAL VALUES
MELT VOLUME-FLOW RATE	1133		CM <sup>3</sup> /10 MIN	300° C X 1.2 KG	15
VICAT SOFTENING TEMP.	306	53460	° C	1 KG, 50 ° C /HR 5 KG, 50 ° C /HR	148 143
H.D.T.	75	53461	° C	1.80MPA, UNANNEAL 1.80MPA, ANNEAL	127 142
IZOD IMPACT STRENGTH	180/1A	-	KJ/M <sup>2</sup>	1/8" NOTCHED 1/8" UNNOTCHED	75 75
CHARPY IMPACT STRENGTH	179	-	KJ/M <sup>2</sup>	NOTCHED	70
TENSILE STRENGTH	527	53455	MPA	UNNOTCHED 50MM/MIN, YIELD	- 64
				50MM/MIN, BREAK	70
TENSILE ELONGATION	527	53455	%	50MM/MIN	120
FLEXURAL STRENGTH	178	53452	MPA	2MM/MIN	90
FLEXURAL MODULUS	178	53452	MPA	2MM/MIN	2400
BALL INDENTATION	2039-1	53456	N/MM <sup>2</sup>	H358/30 UL-94	101
HARDNESS					0.75MM V-2 1.5MM V-2
FLAMMABILITY					
MASS DENSITY	1183	53479-A	G/CM <sup>3</sup>		1.2

NOTE: WHEN NEW CONCRETE SIDEWALK ABUTS EXISTING EMBANKMENT, OMIT TIE BARS. TRANSVERSE SAW CUT SHALL MATCH EXISTING JOINT SPACING.

**LOCATE STATION SPECIFICATIONS**

THIS SPECIFICATION COVERS THE MATERIAL, PHYSICAL/AESTHETIC DIMENSIONS, AND MECHANICAL PROPERTIES OF THE TEST STATION.

THIS PRODUCT IS MEANT TO BE A HIGHLY VISIBLE MARKER THAT HOUSES A CATHODIC PROTECTION AND/OR CABLE LOCATION TERMINAL.

**TECHNICAL DESCRIPTION, DESIGN, AND MATERIAL**

THE LOCATE STATION (A.K.A. MARKER) TOP COVER SHALL CONSIST OF A SINGLE PIECE, INJECTION MOLDED TOP PORTION, AND A UV RESISTANT POLYETHYLENE POST (POST) FOR THE BOTTOM PORTION.

THE MARKER SHALL BE MADE FROM A HIGH-DENSITY POLYETHYLENE WITH A MARLEX RATING OF 9018.

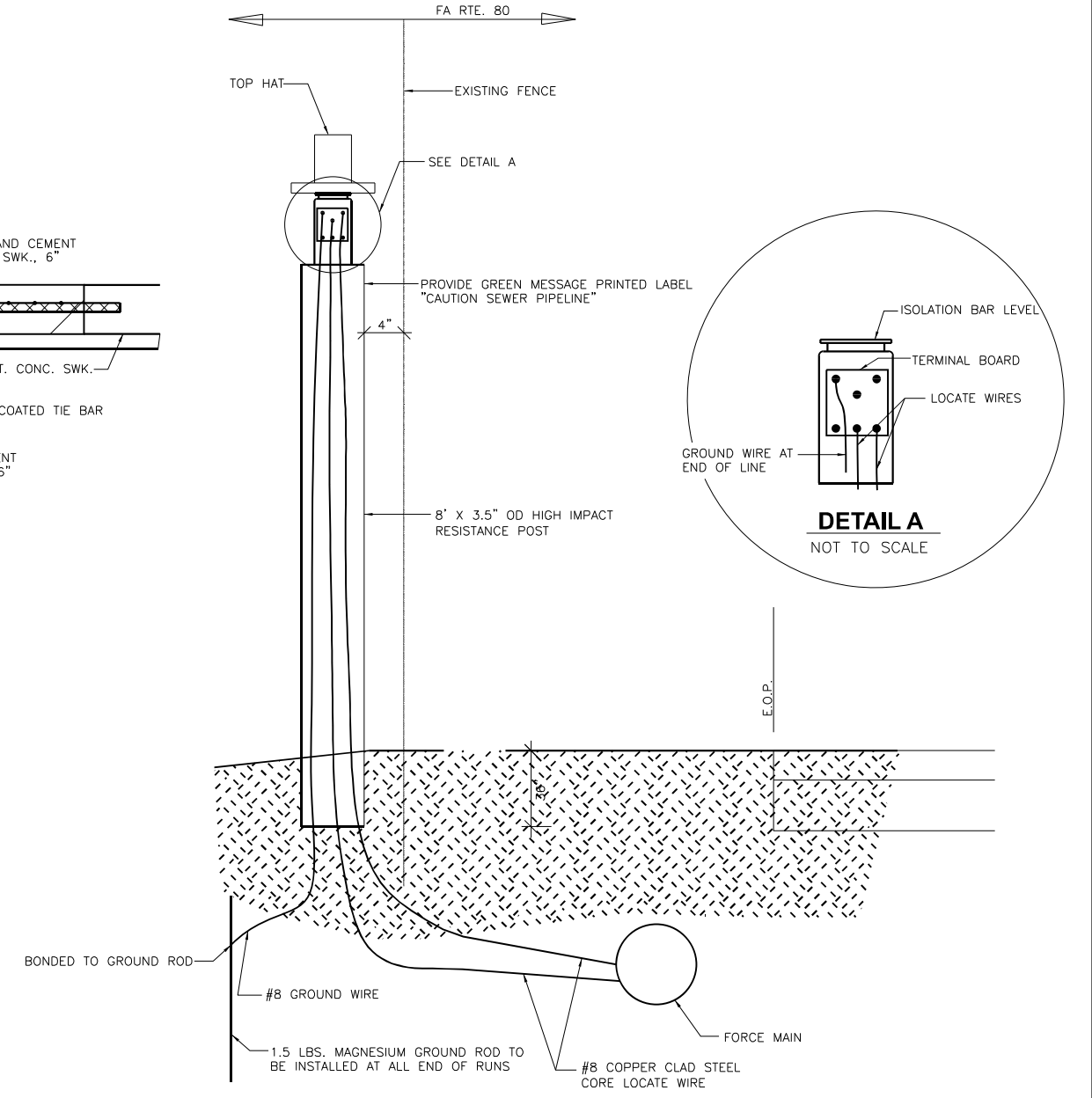
THE MARKER SHALL BE CORONA-TREATED TO ACCEPT PRINTING AND/OR DECAL APPLICATION. PRINTING SHALL BE DONE THROUGH A SILK SCREEN PROCESS WITH UV RESISTANT ENAMEL INKS.

THE LIFESPAN OF THE COVER AND POST, ASSUMING AVERAGE UV AND CLIMATE EXPOSURE, SHALL REMAIN BOLD FOR AT LEAST 10 YEARS IN AN OUTDOOR ENVIRONMENT.

THE MARKER TOP COVER SHALL COMPLETELY COVER THE TERMINAL BOARD AND BE CONSTRUCTED OF AN OPAQUE POLYCARBONATE WITH FIRE PROTECTION, IMPACT RESISTANCE, AND UV STABILIZATION.

THE TOP COVER SHALL FIT SNUGLY OVER THE TERMINAL BOARD, BUT ALSO BE EASILY REMOVABLE.

THE CONCEALED TERMINAL SHALL BE CONSTRUCTED OF A



**LOCATE STATION DETAIL**  
NOT TO SCALE  
(INCLUDED IN COST OF SANITARY SEWER FORCE MAIN)



USER NAME = CHAMLIN	DESIGNED - DJD	REVISED -
PLOT SCALE =	DRAWN - DS	REVISED -
PLOT DATE =	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>DETAILS</b>	
SCALE:	SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80	(32.47) 4RA-4	GRUNDY	38	38
ILLINOIS FED. AID PROJECT			CONTRACT NO. 66L48	