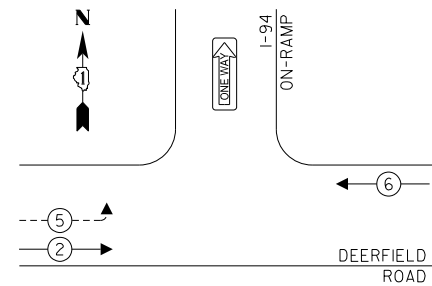
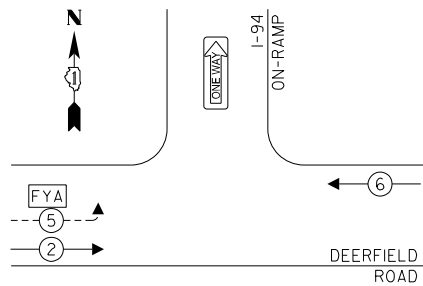


EXISTING CONTROLLER SEQUENCE



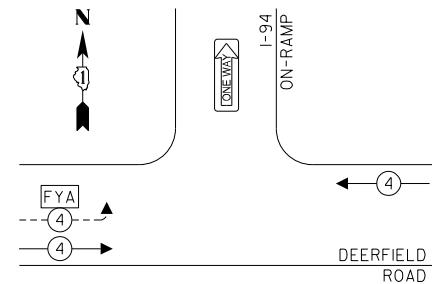
PROPOSED CONTROLLER SEQUENCE



LEGEND:

- ←[*] PROTECTED PHASE
- ←-[*]- PROTECTED/PERMITTED PHASE
- ←[*]→ PEDESTRIAN PHASE
- ←[*] OL OVERLAP
- [FYA] FLASHING YELLOW ARROW

PROPOSED EMERGENCY VEHICLE
PREEMPTION SEQUENCE



TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	3	11	50	16.5
(YELLOW)	3	20	5	3.0
(GREEN)	3	12	45	16.2
SOLID ARROW (RED)	2	10	50	10.0
(GREEN & YELLOW)	4	10	10	4.0
FLASHING ARROW	2	10	5	1.0
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	1	150	100	150.0
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	165	50	-
PTZ	-	60	100	-
TOTAL =				325.7

ENERGY COSTS TO:

VILLAGE OF DEERFIELD

850 Waukegan Road
Deerfield, IL 60015

ENERGY SUPPLY: CONTACT: JAZZMINE WADE
PHONE: (847) 748-4315
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---

SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
SIGN PANEL - TYPE 1	SQ FT	15
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	220
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	2
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
LED SIGNAL FACE, LENS COVER	EACH	3
MODIFY EXISTING CONTROLLER AND CABINET	EACH	1

CONSTRUCTION NOTES:

- ① THE CONTRACTOR SHALL INSTALL 4-SECTION LEFT TURN SIGNAL HEAD WITH FLASHING YELLOW ARROW UTILIZING EXISTING 7/C CABLES.

CABLE PLAN

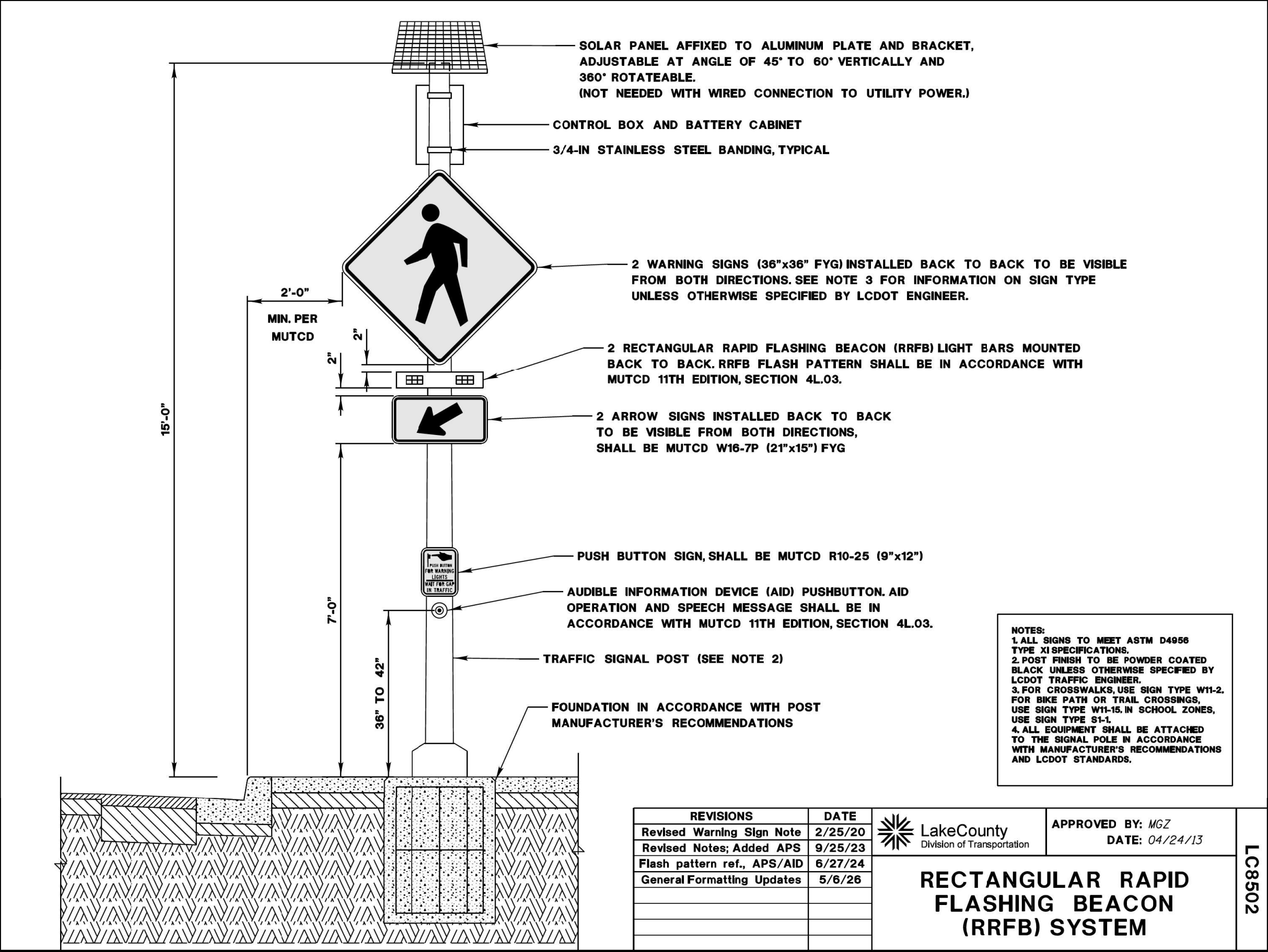
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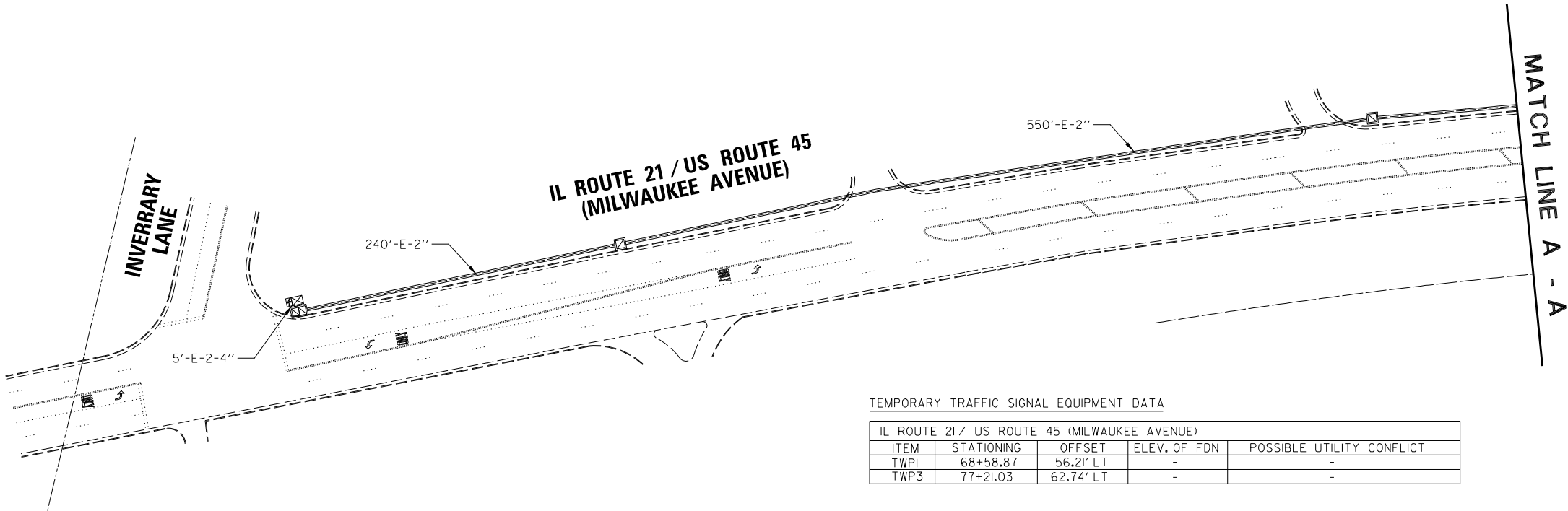
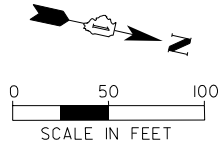
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION
DIAGRAM AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
DEERFIELD ROAD AT I-94 ON-RAMP

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

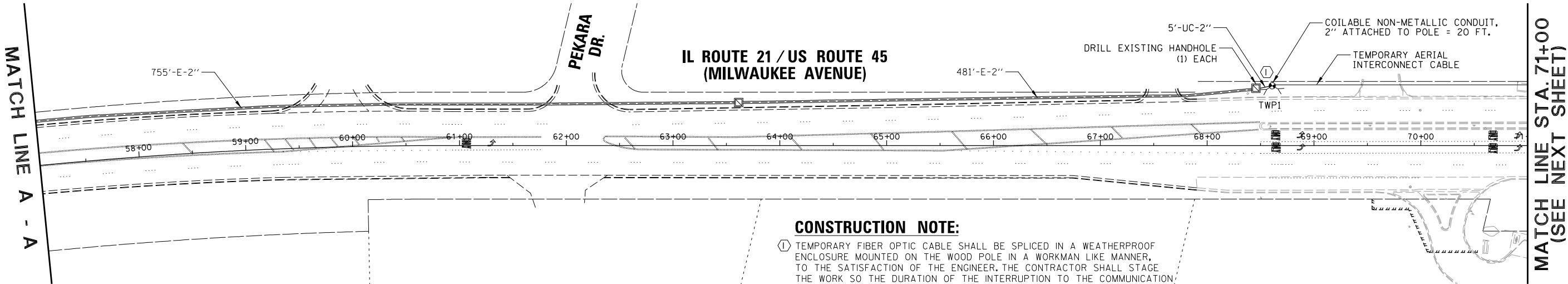
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I257	I5-00038-07-WR	LAKE	1090	501
CONTRACT NO. 61K62				
ILLINOIS FED. AID PROJECT				





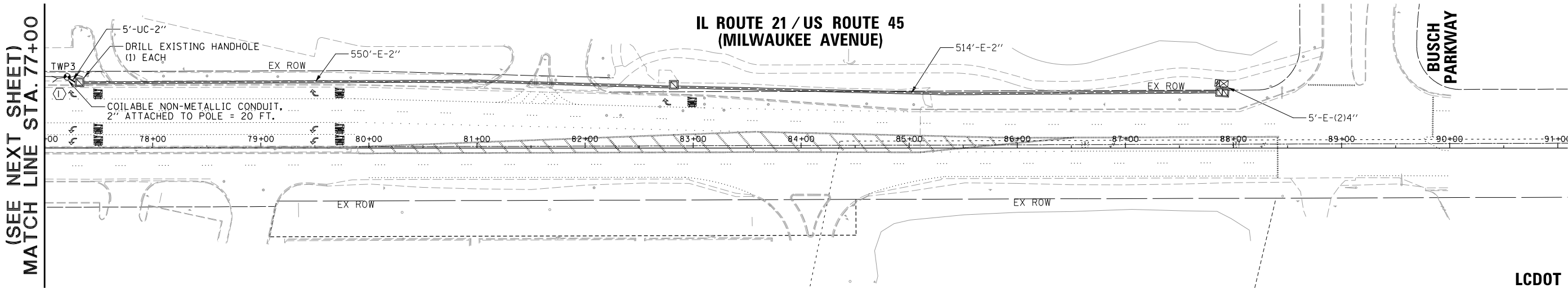
TEMPORARY TRAFFIC SIGNAL EQUIPMENT DATA

IL ROUTE 21 / US ROUTE 45 (MILWAUKEE AVENUE)				
ITEM	STATIONING	OFFSET	ELEV. OF FDN	POSSIBLE UTILITY CONFLICT
TWP1	68+58.87	56.21' LT	-	-
TWP3	77+21.03	62.74' LT	-	-



CONSTRUCTION NOTE:

- ① TEMPORARY FIBER OPTIC CABLE SHALL BE SPLICED IN A WEATHERPROOF ENCLOSURE MOUNTED ON THE WOOD POLE IN A WORKMAN LIKE MANNER, TO THE SATISFACTION OF THE ENGINEER. THE CONTRACTOR SHALL STAGE THE WORK SO THE DURATION OF THE INTERRUPTION TO THE COMMUNICATION IS MINIMAL. ALL COST SHALL BE INCLUDED IN THE PAY ITEM: TEMPORARY TRAFFIC SIGNAL INSTALLATION.



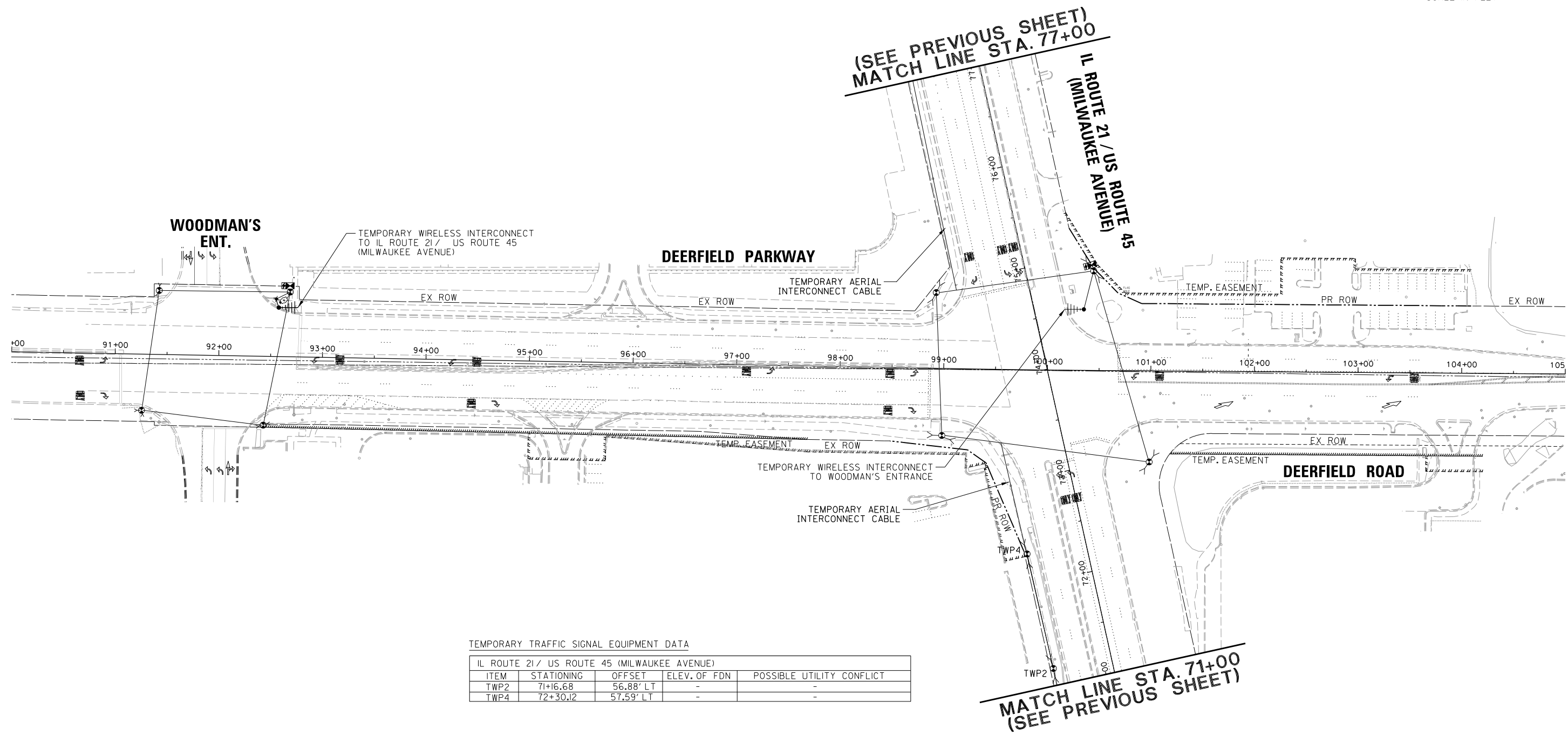
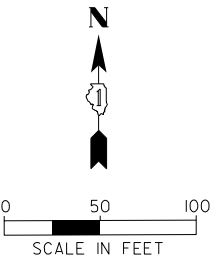
LCDOT PASSAGE
FORMER EAGLE 1H

FILE NAME =	USER NAME = omissick	DESIGNED -	REVISED -
N:\LCDOT\190304.0003A\Traffic\TS-TMP-INT\MILWAUKEE.dgn		DRAWN -	REVISED -
default	PLOT SCALE = 50'	CHECKED -	REVISED -
	PLOT DATE = 8/7/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT PLAN DEERFIELD PARKWAY / DEERFIELD ROAD AND IL ROUTE 21 / US ROUTE 45 (MILWAUKEE AVENUE)			
SCALE: 1" = 50'	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I257	I5-00038-07-WR	LAKE	1090	504
CONTRACT NO. 6IK62				
ILLINOIS FED. AID PROJECT				

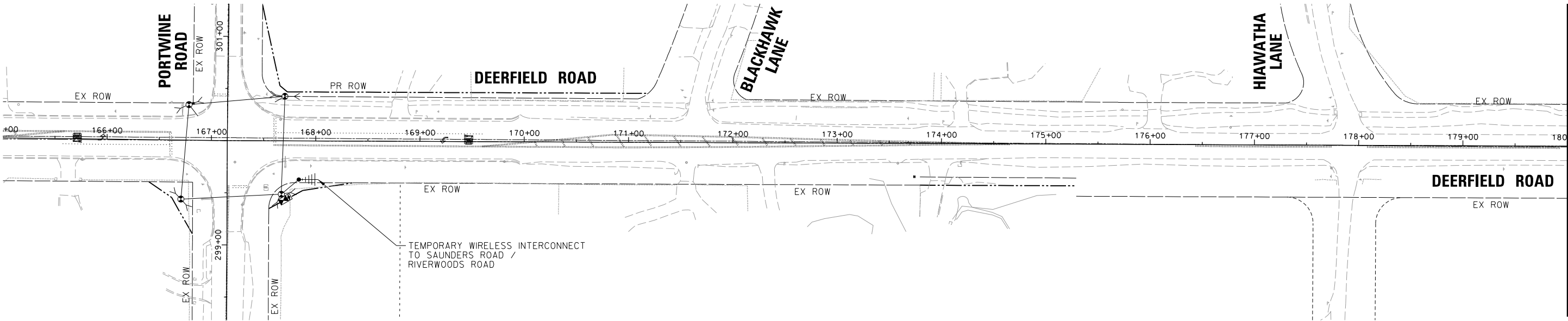
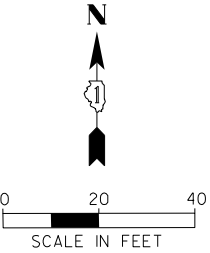


TEMPORARY TRAFFIC SIGNAL EQUIPMENT DATA

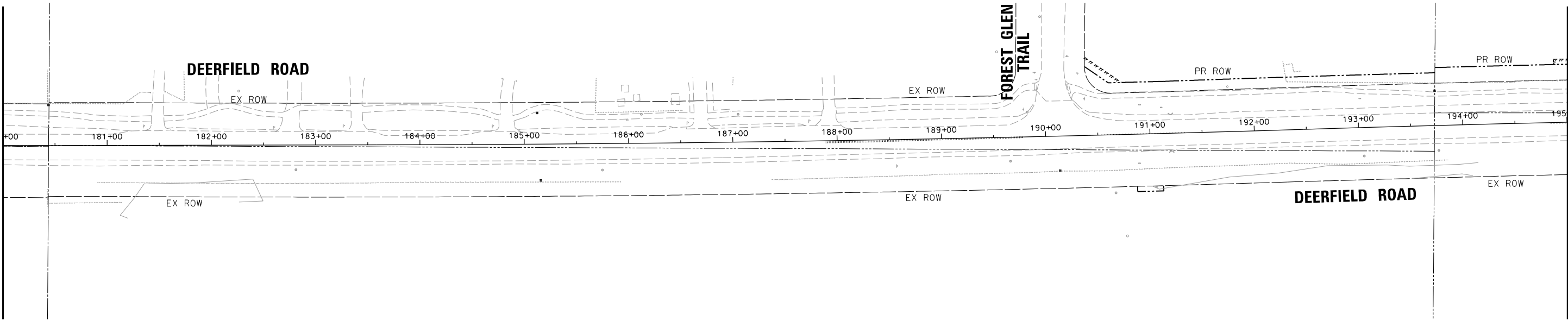
IL ROUTE 21/ US ROUTE 45 (MILWAUKEE AVENUE)				
ITEM	STATIONING	OFFSET	ELEV. OF FDN	POSSIBLE UTILITY CONFLICT
TWP2	71+16.68	56.88' LT	-	-
TWP4	72+30.12	57.59' LT	-	-

LCDOT PASSAGE
FORMER EAGLE 1H

FILE NAME =	USER NAME = omissick	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY INTERCONNECT PLAN DEERFIELD PARKWAY / DEERFIELD ROAD AND IL ROUTE 21 /US ROUTE 45 (MILWAUKEE AVENUE)				F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N:\LCDOT\190304.0003A\Traffic\TS-TMP-IN	2.MILWAKEE.dgn	DRAWN -	REVISED -						1257	I5-00038-07-WR	LAKE	1090	505
	PLOT SCALE = 50'	CHECKED -	REVISED -		CONTRACT NO. 6IK62								
default	PLOT DATE = 8/7/2026	DATE -	REVISED -		SCALE: 1" = 50'	SHEET	OF	SHEETS	STA.	TO	STA.		
					ILLINOIS FED. AID PROJECT								



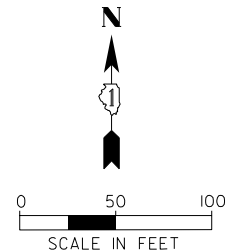
MATCH LINE STA. 180+00



MATCH LINE STA. 195+00
(SEE NEXT SHEET)

LCDOT PASSAGE

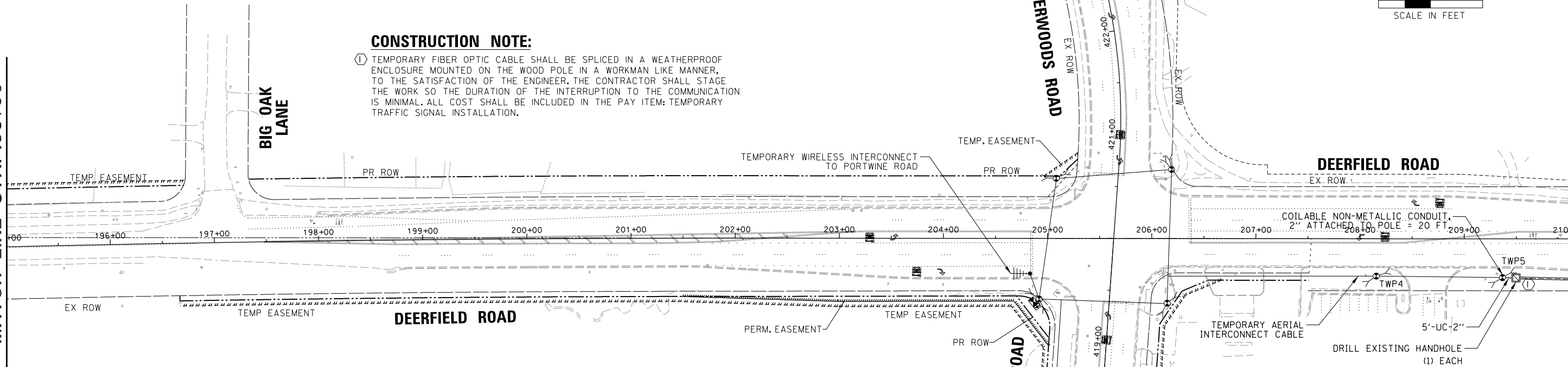
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		DRAWN -	REVISED -					1257	15-00038-07-WR	LAKE	1090	506
		PLOT SCALE = 50'	CHECKED -		SCALE: 1" = 50'			CONTRACT NO. 6IK62				
		PLOT DATE = 8/7/2026	DATE -		SHEET OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT				



CONSTRUCTION NOTE:

- ① TEMPORARY FIBER OPTIC CABLE SHALL BE SPliced IN A WEATHERPROOF ENCLOSURE MOUNTED ON THE WOOD POLE IN A WORKMAN LIKE MANNER, TO THE SATISFACTION OF THE ENGINEER, THE CONTRACTOR SHALL STAGE THE WORK SO THE DURATION OF THE INTERRUPTION TO THE COMMUNICATION IS MINIMAL. ALL COST SHALL BE INCLUDED IN THE PAY ITEM: TEMPORARY TRAFFIC SIGNAL INSTALLATION.

(SEE PREVIOUS SHEET)
MATCH LINE STA. 195+00

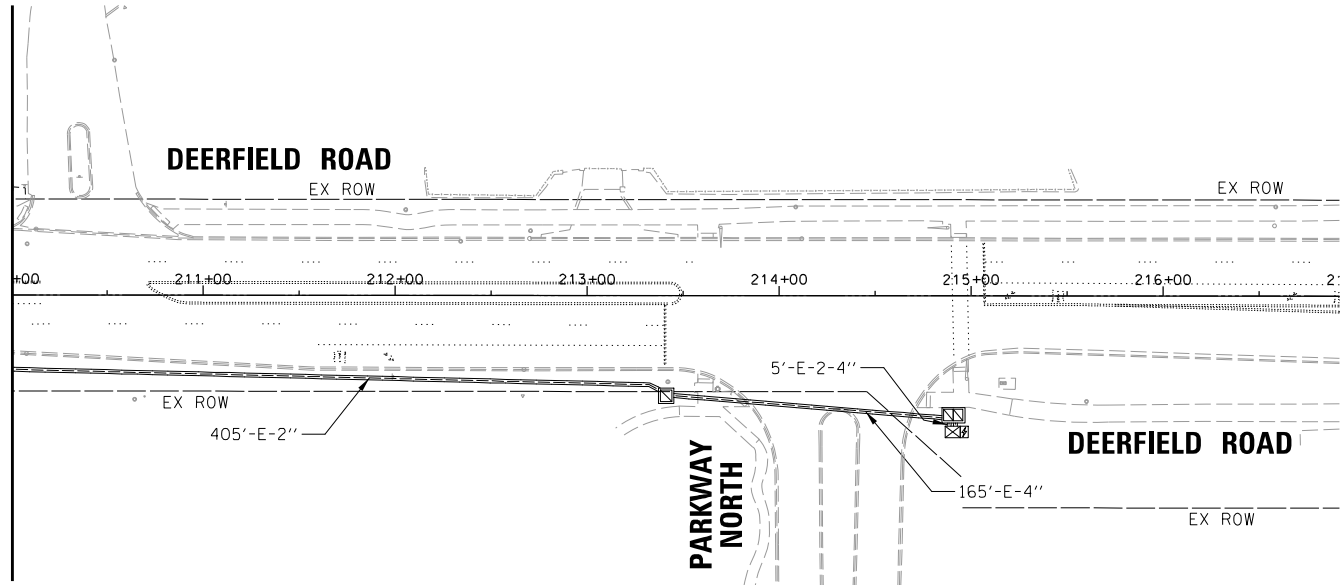


TEMPORARY TRAFFIC SIGNAL EQUIPMENT DATA

DEERFIELD ROAD				
ITEM	STATIONING	OFFSET	ELEV. OF FDN	POSSIBLE UTILITY CONFLICT
TWP4	208+15.58	36.01' RT	-	-
TWP5	209+36.71	37.26' RT	-	-
SAUNDERS ROAD				
TWPII	417+37.64	44.19' LT	-	-

MATCH LINE STA. 417+00
(SEE NEXT SHEET)

MATCH LINE STA. 210+00



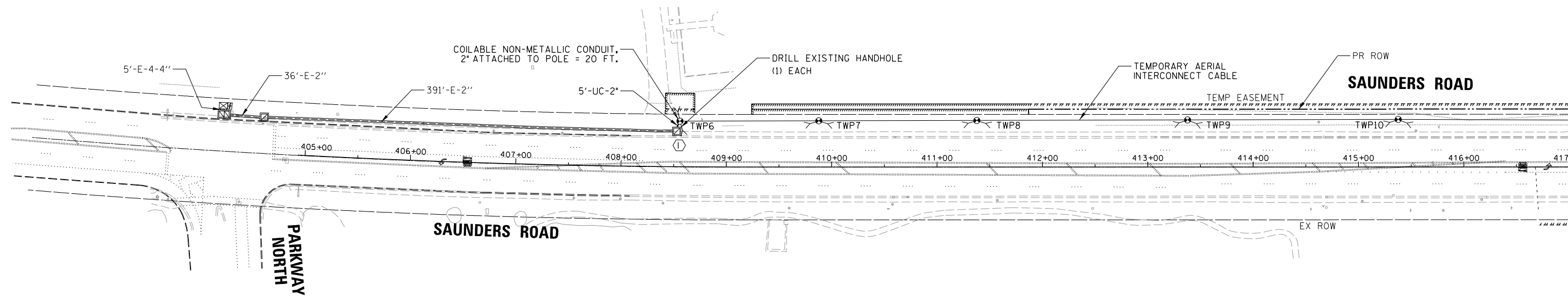
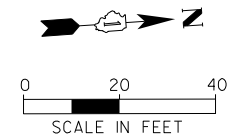
LCDOT PASSAGE

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default	PLOT SCALE = 50'	CHECKED -	REVISED -
	PLOT DATE = 8/7/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT PLAN			
DEERFIELD ROAD FROM PORTWINE ROAD TO PARKWAY NORTH (E) AND FROM SAUNDERS ROAD TO PARKWAY NORTH (S)			
SCALE: 1" = 50'	SHEET	OF SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I257	I5-00038-07-WR	LAKE	1090	507
				CONTRACT NO. 6IK62
ILLINOIS FED. AID PROJECT				



TEMPORARY TRAFFIC SIGNAL EQUIPMENT DATA

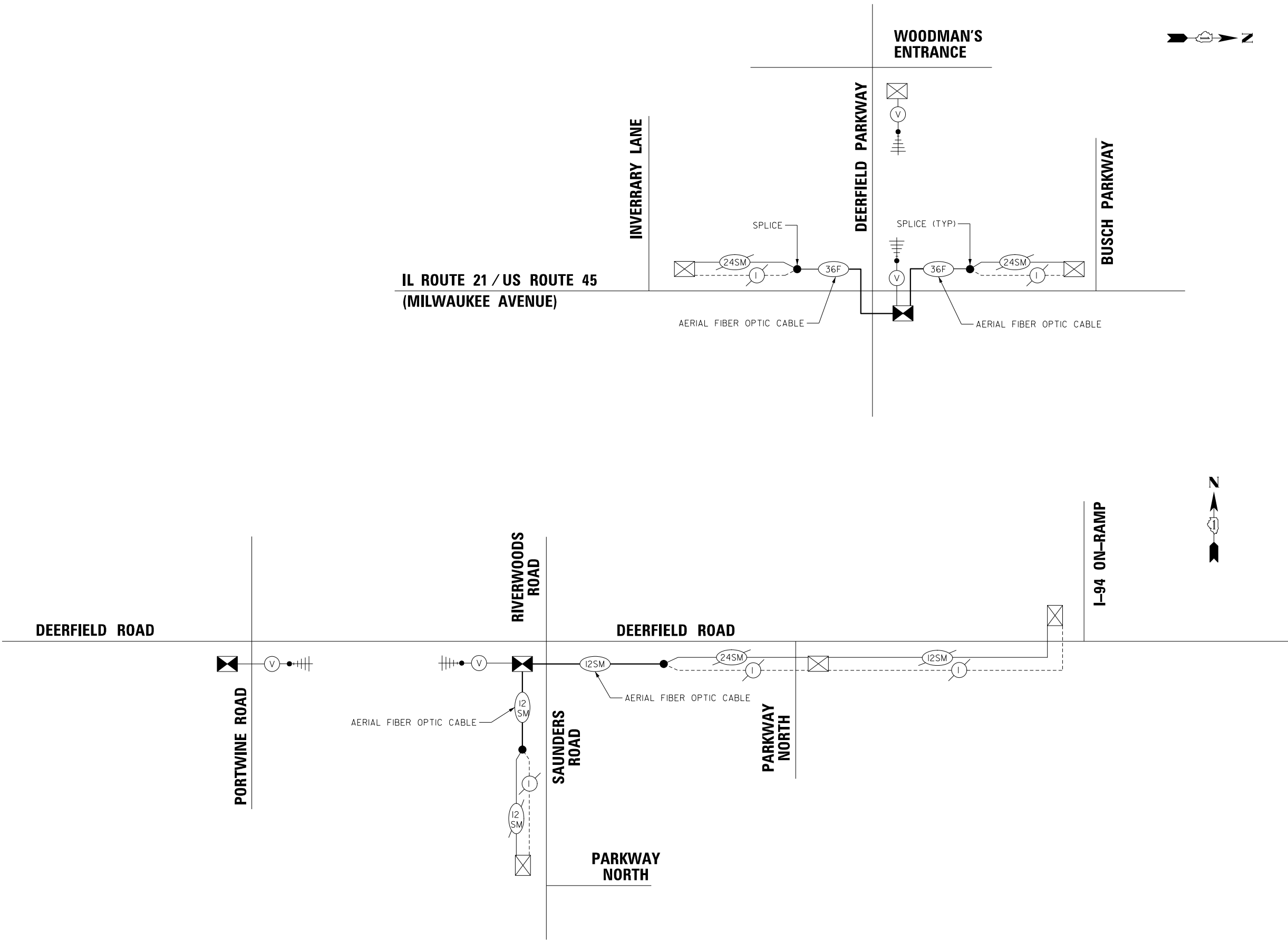
SAUNDERS ROAD				
ITEM	STATIONING	OFFSET	ELEV. OF FDN	POSSIBLE UTILITY CONFLICT
TWP6	408+55.60	43.10' LT	-	-
TWP7	409+87.72	43.70' LT	-	-
TWP8	411+37.72	44.06' LT	-	-
TWP9	413+37.75	44.53' LT	-	-
TWP10	415+37.68	45.02' LT	-	-

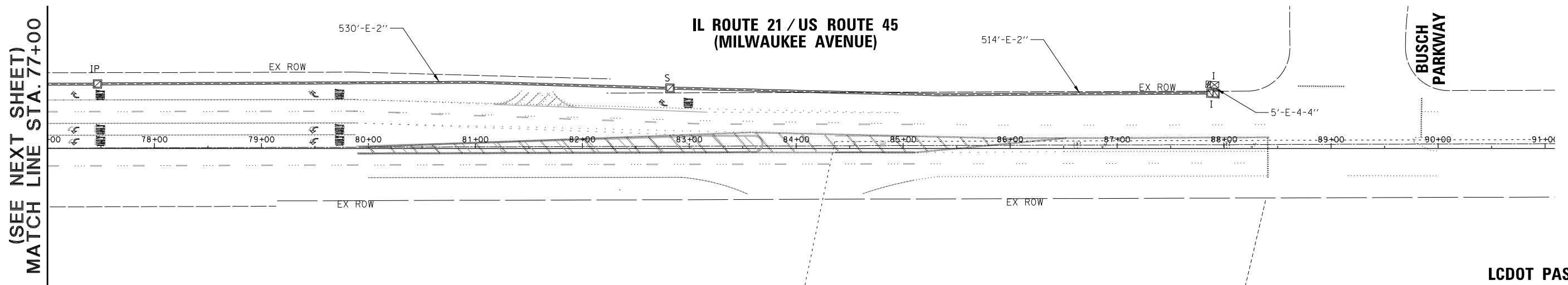
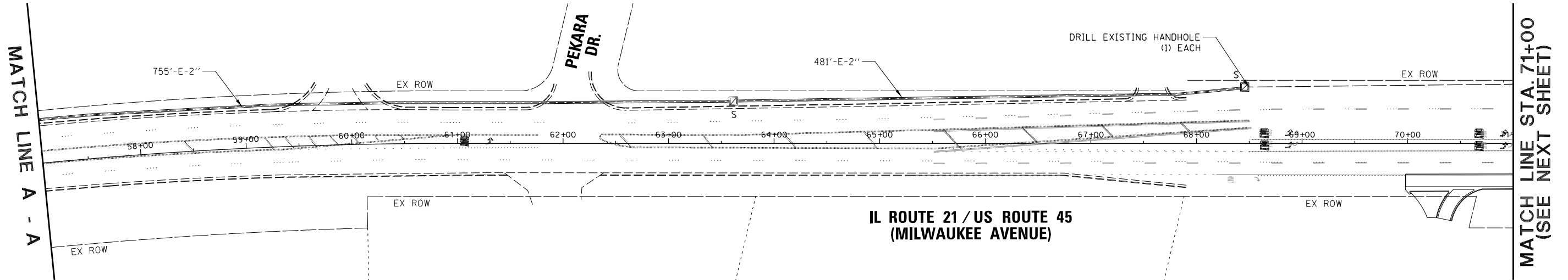
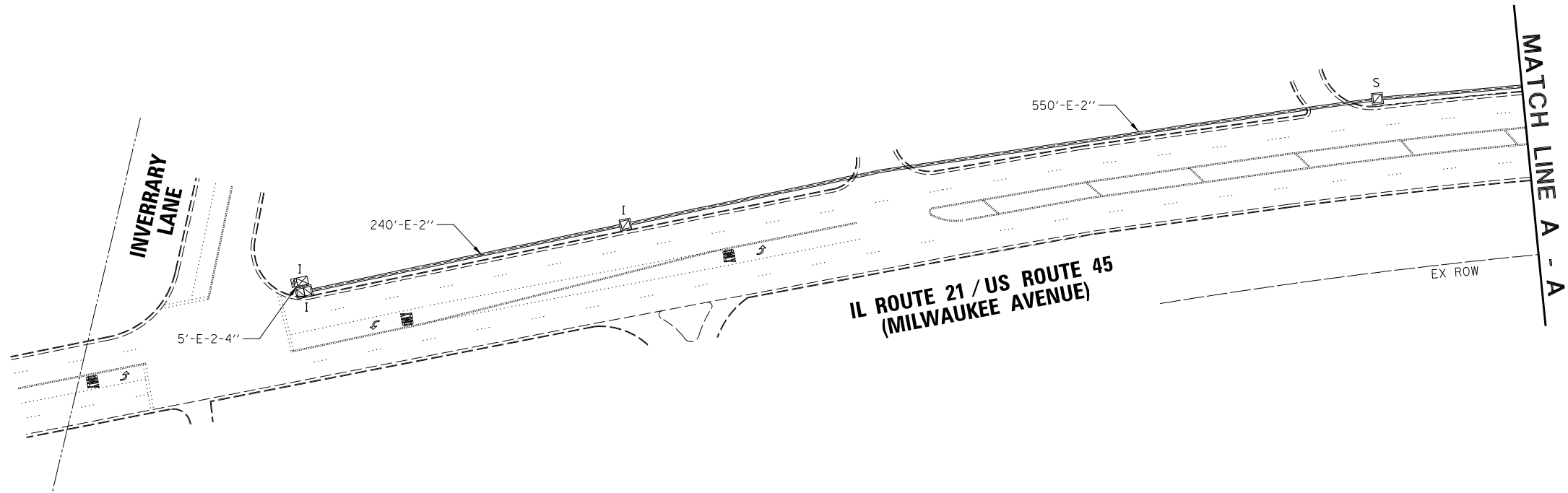
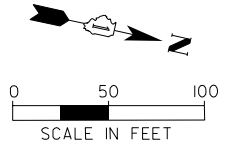
CONSTRUCTION NOTE:

- ① TEMPORARY FIBER OPTIC CABLE SHALL BE SPLICED IN A WEATHERPROOF ENCLOSURE MOUNTED ON THE WOOD POLE IN A WORKMAN LIKE MANNER, TO THE SATISFACTION OF THE ENGINEER. THE CONTRACTOR SHALL STAGE THE WORK SO THE DURATION OF THE INTERRUPTION TO THE COMMUNICATION IS MINIMAL. ALL COST SHALL BE INCLUDED IN THE PAY ITEM: TEMPORARY TRAFFIC SIGNAL INSTALLATION.

MATCH LINE STA. 417+00
(SEE PREVIOUS SHEET)

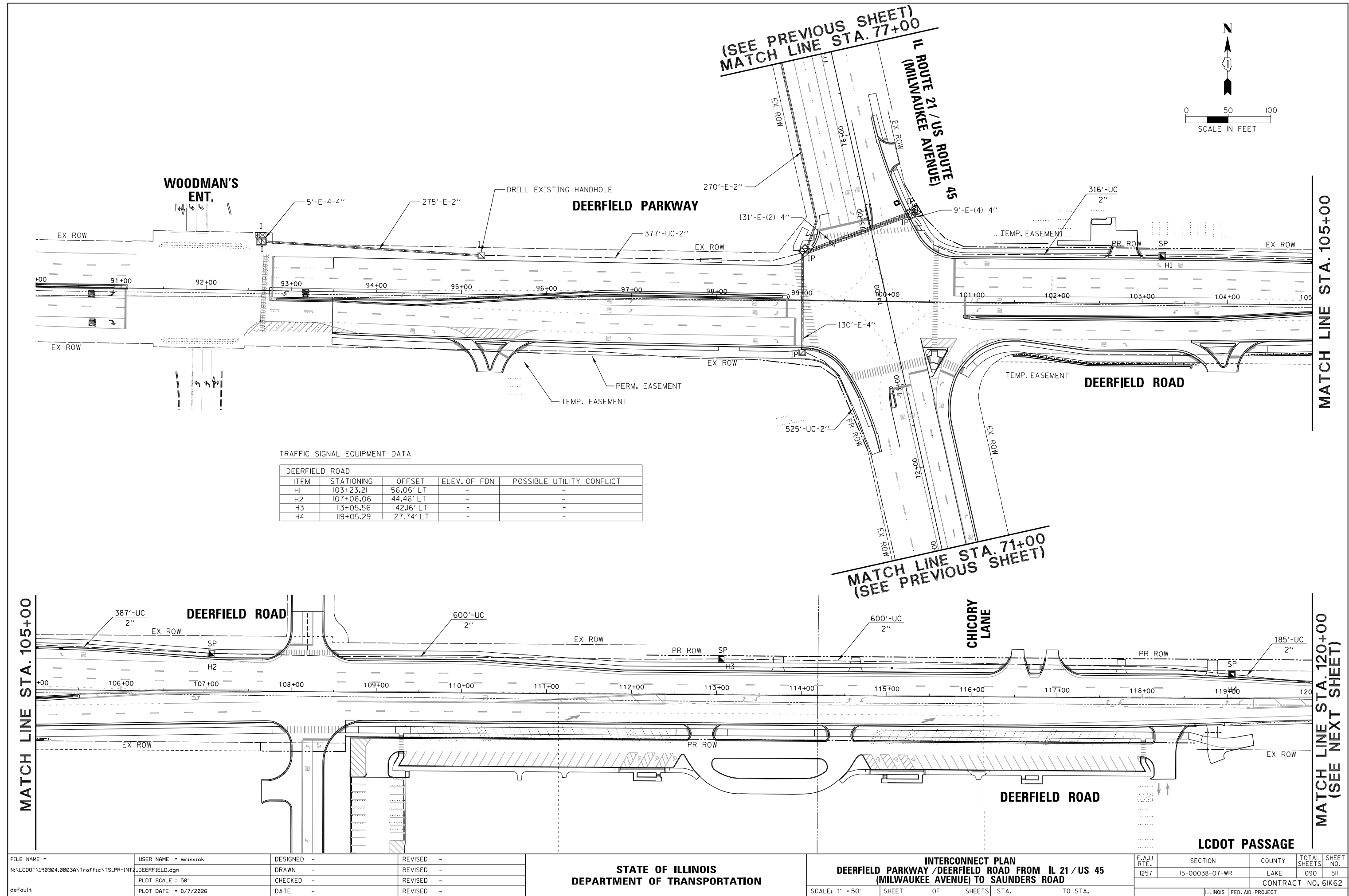
LCDOT PASSAGE





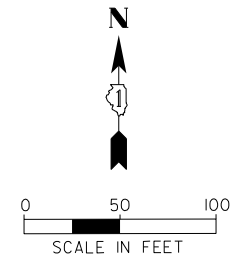
LCDOT PASSAGE
FORMER EAGLE 1H

FILE NAME =		USER NAME = omisick	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION			INTERCONNECT PLAN IL ROUTE 21 / US ROUTE 45 (MILWAUKEE AVENUE) FROM INVERRARY LANE TO BUSCH PARKWAY			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N:\LCDOT\190304.0003A\Traffic\TS-PR-INT\MILWAUKEE.dgn			DRAWN -	REVISED -							I257	I5-00038-07-WR	LAKE	1090	510
default			PLOT SCALE = 50'	REVISED -							CONTRACT NO. 61K62				
			PLOT DATE = 8/7/2026	REVISED -							ILLINOIS FED. AID PROJECT				
						SCALE: 1" = 50'		SHEET	OF	SHEETS	STA.	TO STA.			



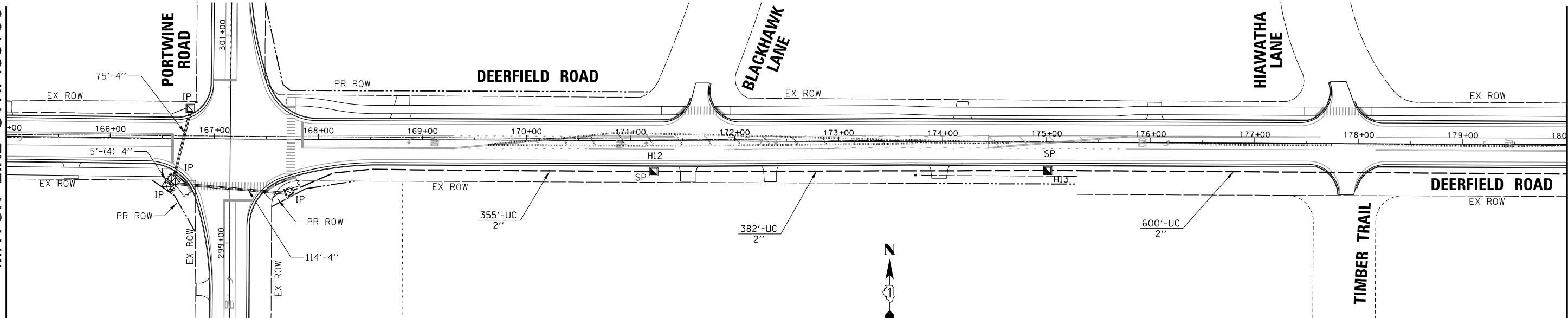
MATCH LINE STA. 150+00

**MATCH LINE STA. 165+00
(SEE NEXT SHEET)**



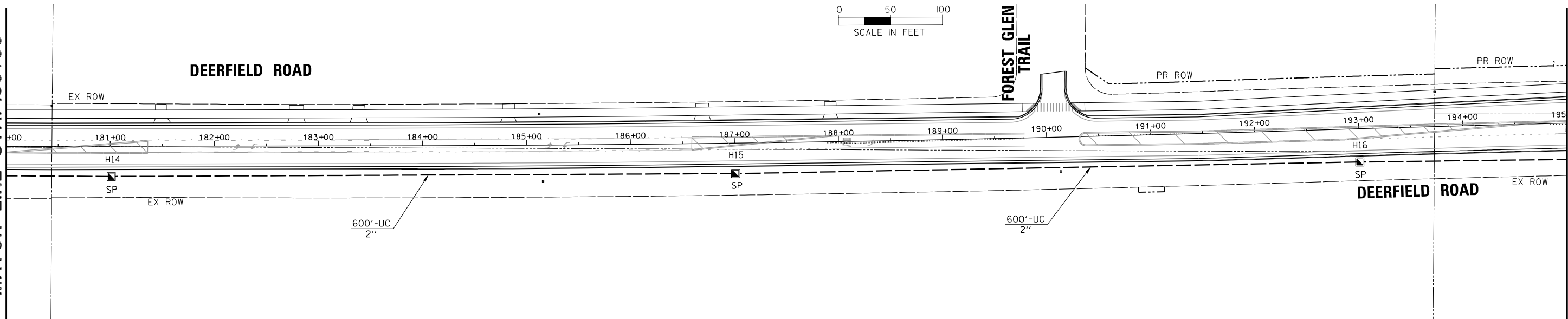
F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	15-00038-07-WR	LAKE	1090	512
		CONTRACT NO. 61K62		
ILLINOIS		FED. AID PROJECT		

(SEE PREVIOUS SHEET)
MATCH LINE STA. 165+00



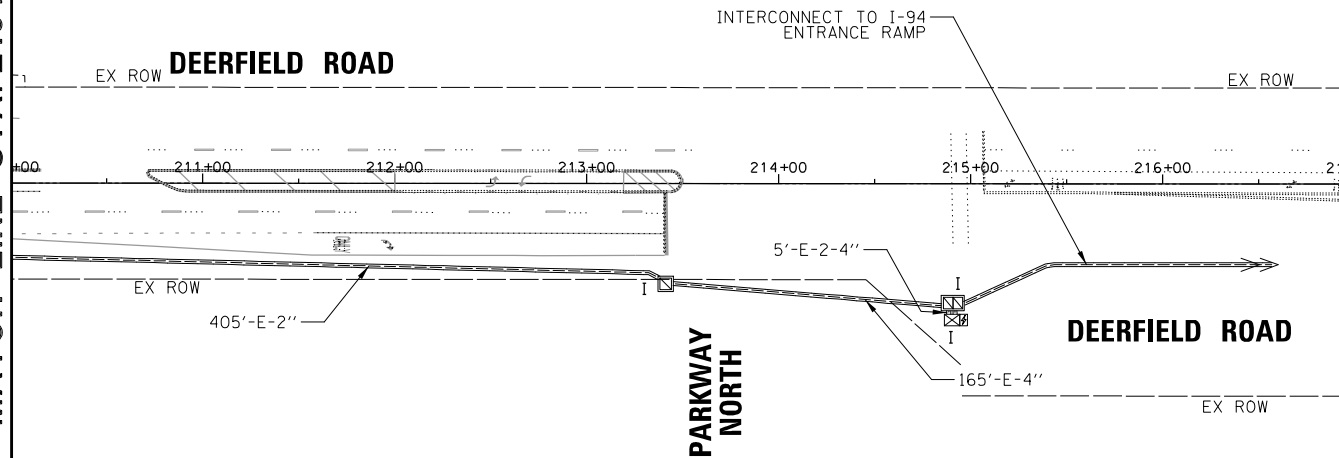
MATCH LINE STA. 180+00

MATCH LINE STA. 180+00



MATCH LINE STA. 195+00
(SEE NEXT SHEET)

(SEE NEXT SHEET)
MATCH LINE STA. 210+00



TRAFFIC SIGNAL EQUIPMENT DATA

DEERFIELD ROAD				
ITEM	STATIONING	OFFSET	ELEV. OF FDN	POSSIBLE UTILITY CONFLICT
H12	171+22.73	29.62' RT	-	-
H13	175+01.15	27.07' RT	-	-
H14	181+00.97	28.95' RT	-	-
H15	187+00.75	29.31' RT	-	-
H16	193+00.25	32.01' RT	-	-

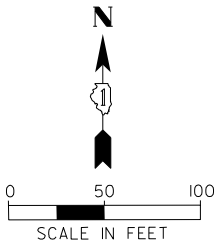
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default	PLOT SCALE = 50'	CHECKED -	REVISED -
	PLOT DATE = 8/7/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
DEERFIELD PARKWAY / DEERFIELD ROAD FROM IL 21 / US 45
(MILWAUKEE AVENUE) TO SAUNDERS ROAD

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

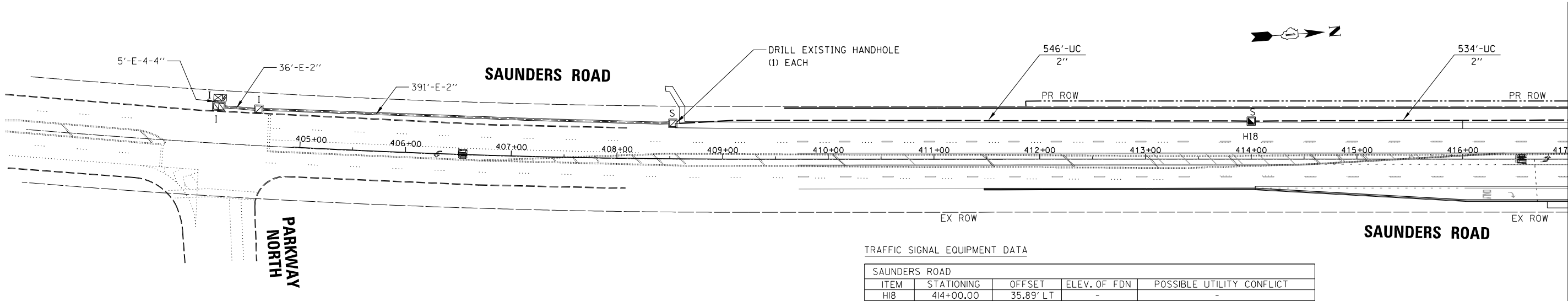
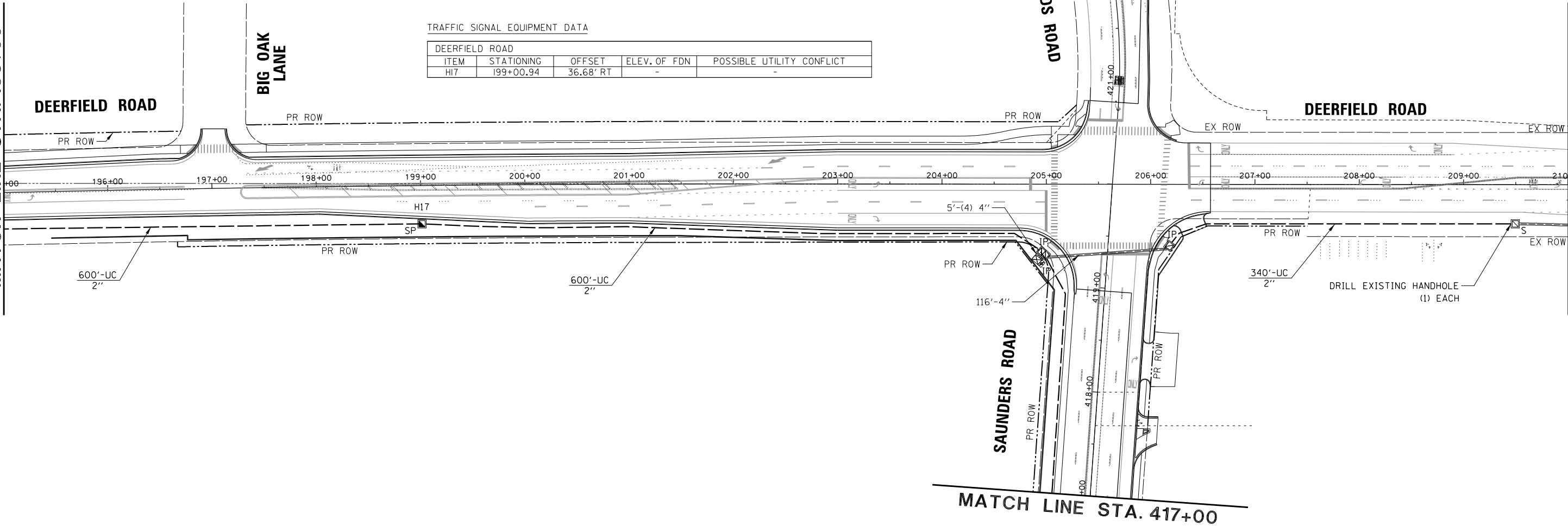
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I257	I5-00038-07-WR	LAKE	1090	513
CONTRACT NO. 6IK62				
ILLINOIS FED. AID PROJECT				



(SEE PREVIOUS SHEET)
MATCH LINE STA. 195+00

MATCH LINE STA. 210+00
(SEE PREVIOUS SHEET)

TRAFFIC SIGNAL EQUIPMENT DATA				
DEERFIELD ROAD				
ITEM	STATIONING	OFFSET	ELEV. OF FDN	POSSIBLE UTILITY CONFLICT
HI7	199+00.94	36.68' RT	-	-



TRAFFIC SIGNAL EQUIPMENT DATA				
SAUNDERS ROAD				
ITEM	STATIONING	OFFSET	ELEV. OF FDN	POSSIBLE UTILITY CONFLICT
HI8	414+00.00	35.89' LT	-	-

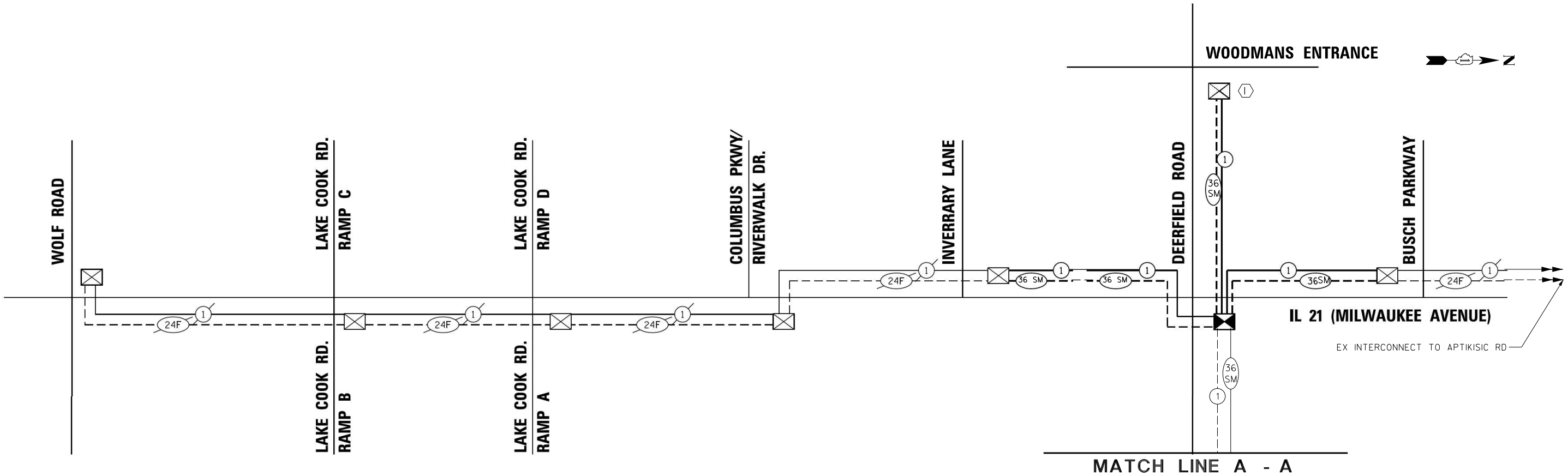
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default	PLOT SCALE = 50'	CHECKED -	REVISED -
	PLOT DATE = 8/7/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
DEERFIELD PARKWAY / DEERFIELD ROAD FROM IL 21 / US 45
(MILWAUKEE AVENUE) TO SAUNDERS ROAD

SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I257	I5-00038-07-WR	LAKE	1090	514
CONTRACT NO. 6IK62				
ILLINOIS FED. AID PROJECT				

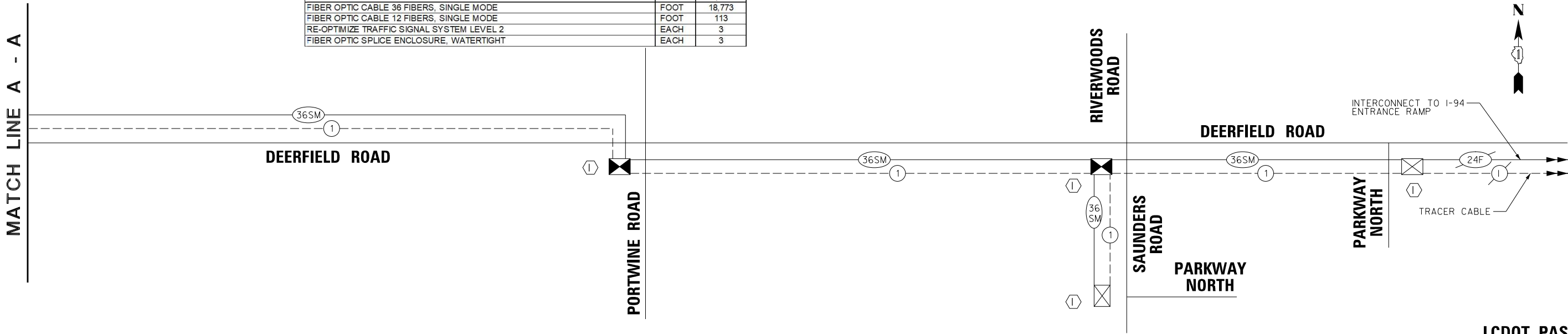


SCHEDULE OF QUANTITIES

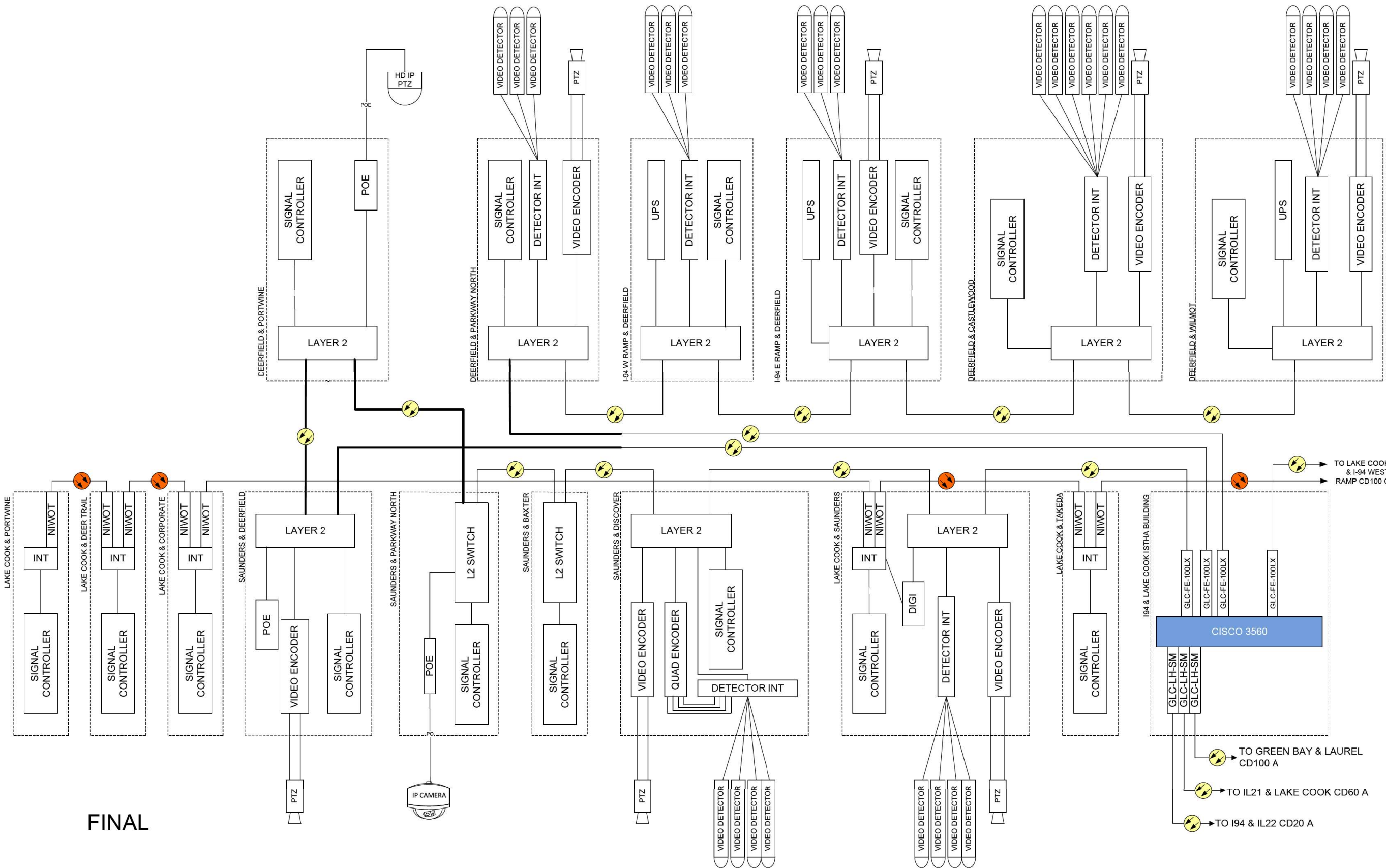
ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.	FOOT	12,080
CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	290
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 24" X 24" X 10"	EACH	2
HANDHOLE	EACH	18
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	18,345
DRILL EXISTING HANDHOLE	EACH	4
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	4,494
FIBER OPTIC CABLE 36 FIBERS, SINGLE MODE	FOOT	18,773
FIBER OPTIC CABLE 12 FIBERS, SINGLE MODE	FOOT	113
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	3
FIBER OPTIC SPLICE ENCLOSURE, WATERTIGHT	EACH	3

CONSTRUCTION NOTES:

- ① CONTRACTOR SHALL INSTALL 12 SM FIBER FROM THE DOUBLE HANDHOLE TO THE CABINET PER THE FIBER SPLICING DIAGRAM.



LCDOT PASSAGE
FORMER EAGLE 1H



FINAL



DESIGNED – DG	REVISD -	2017.04.17	ADD SW AT PARKWAY & BAXTER
DRAWN – DG	REVISD -	2018.01.16	DEL DIGI AT SUNDERS / DEERFIELD
CHECKED – DG	REVISD -	2018.10.30	2018 ITS PASSAGE ELEMENTS
UPDATED: 2026.1.8	REVISD -		

Contract No.
Deerfield Rd Reconstruction



56A
LAKE COOK / I-94

ROUTE	SECTION	ROUTE SECTION	PAGE NAME	SHEET	SHEETS
			56 F	3	9
SCALE N/A					

FILE NAME =
N:\LCDOT\190304.0003A\Traffic\TS-CABINE
Details-03.dgn
default

USER NAME = omissick
PLOT SCALE = 28'
PLOT DATE = 8/7/2026

DESIGNED -
DRAWN -
CHECKED -
DATE -

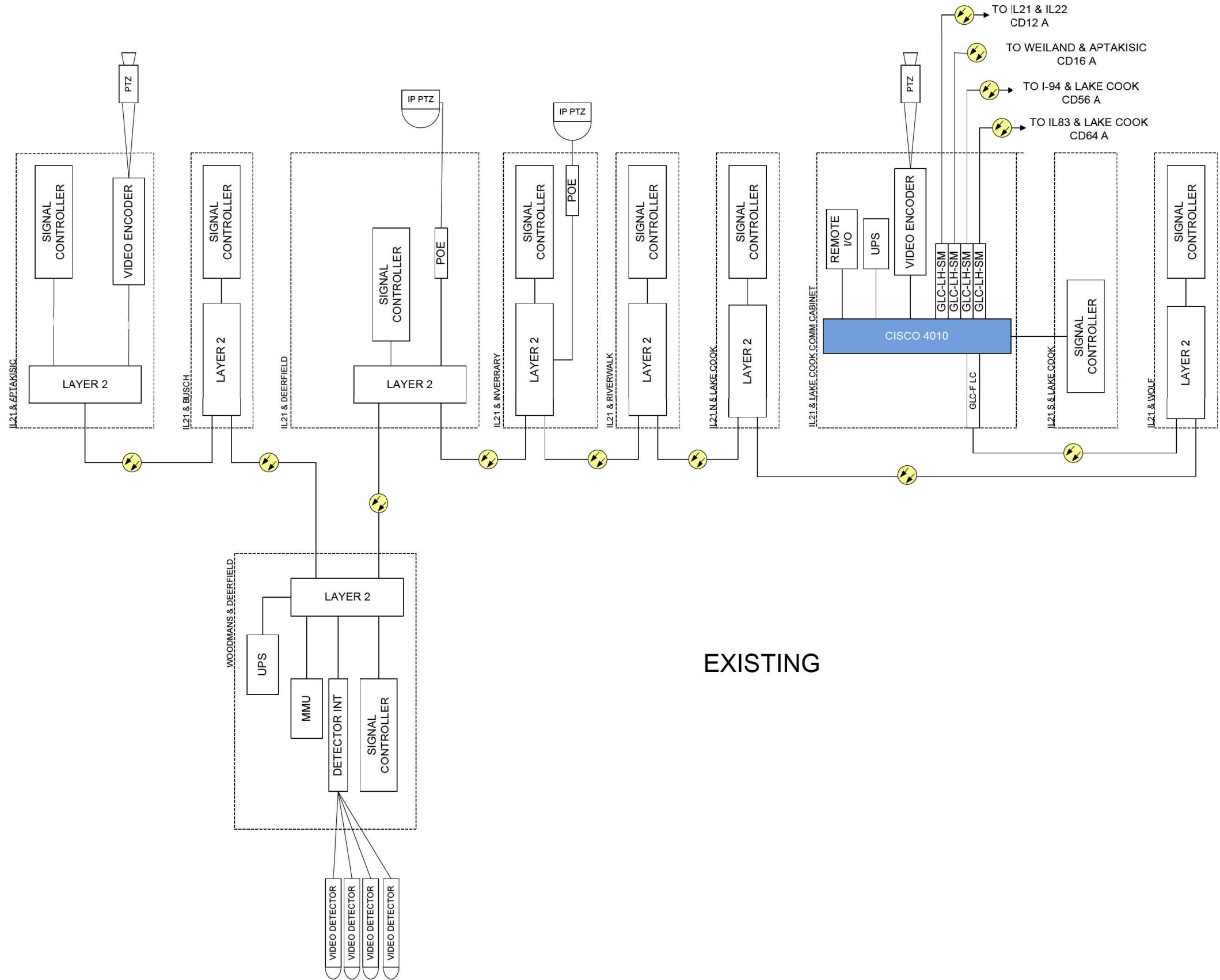
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABINET DETAILS (SHEET 3 OF 6)
DEERFIELD ROAD RECONSTRUCTION
RIVERWOODS, LAKE COUNTY

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I257	I5-00038-07-WR	LAKE	1090	518
CONTRACT NO. 6IK62				
ILLINOIS FED. AID PROJECT				



DESIGNED - DG
DRAWN - DG
CHECKED - DG
UPDATED: 2026.1.8

REVISED -
REVISED -
REVISED -
REVISED -

Contract No.
Deerfield Rd Reconstruction



60A
LAKE COOK / IL21

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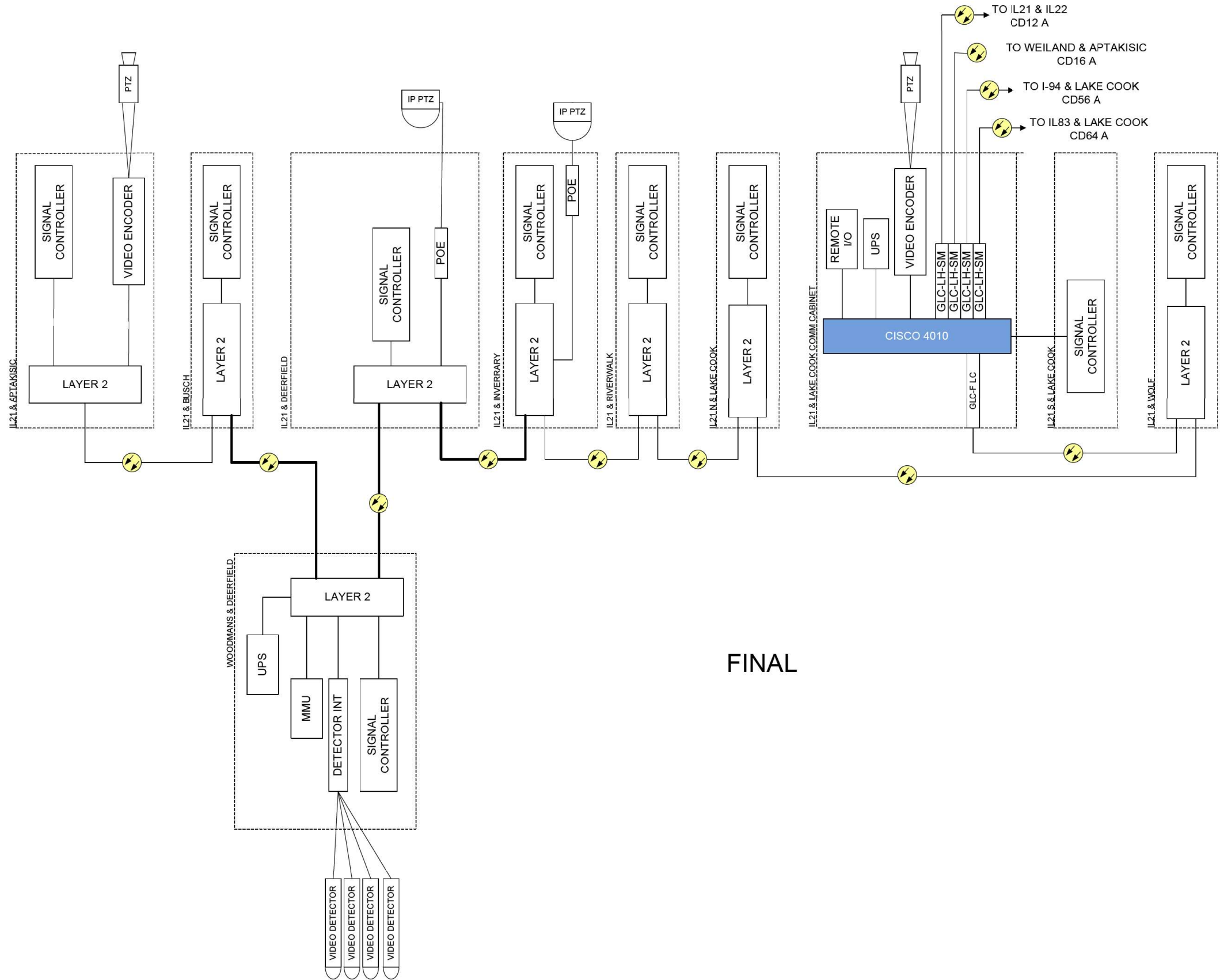
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DEPARTMENT OF TRANSPORTATION

CABINET DETAILS (SHEET 4 OF 6)
DEERFIELD ROAD RECONSTRUCTION
RIVERWOODS, LAKE COUNTY

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I257	I5-00038-07-WR	LAKE	1090	519
CONTRACT NO. 6IK62				

ILLINOIS FED. AID PROJECT



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Contract No.
Deerfield Rd Reconstruction



60A
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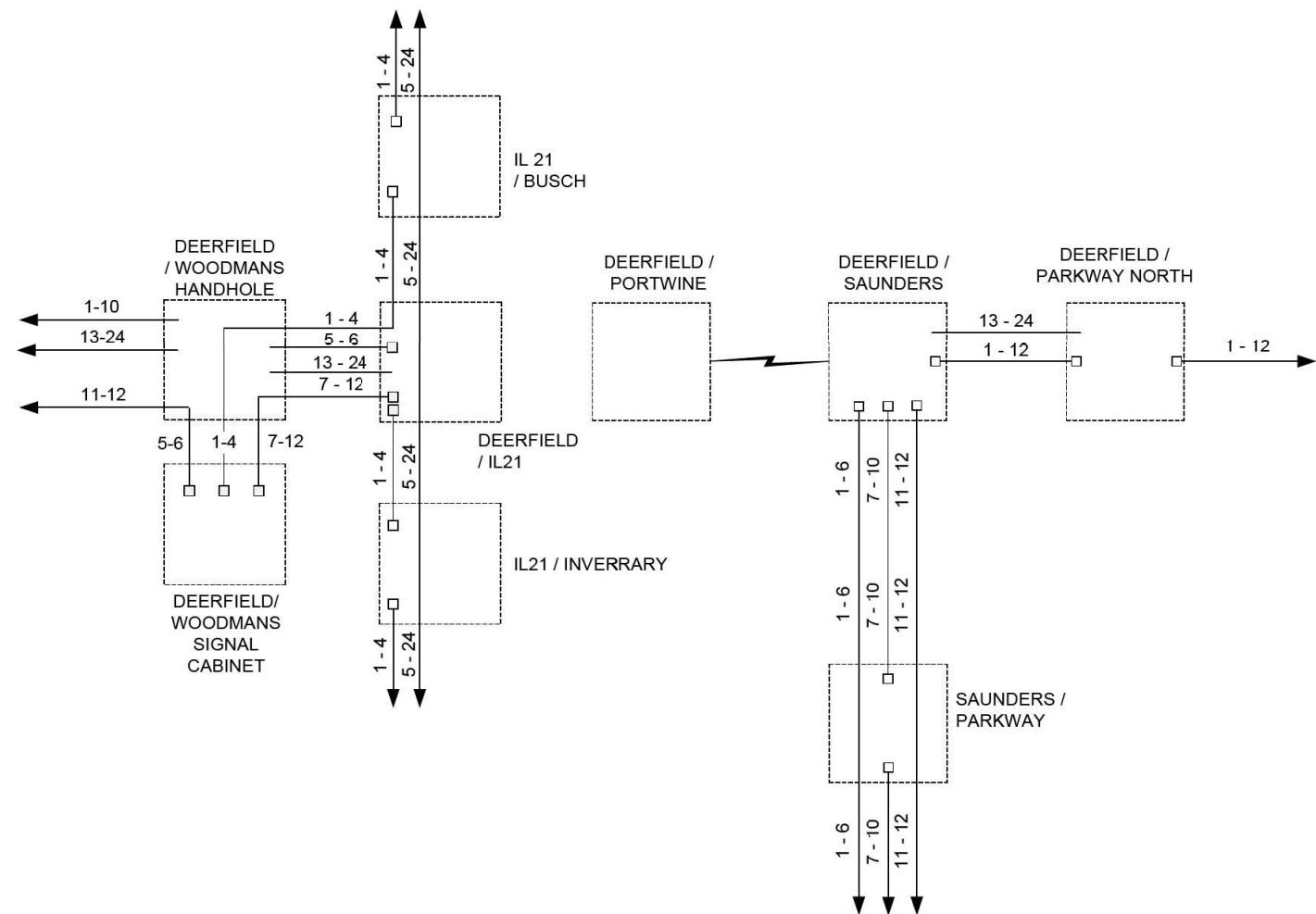
CABINET DETAILS (SHEET 6 OF 6)
DEERFIELD ROAD RECONSTRUCTION
RIVERWOODS, LAKE COUNTY

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F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I257	I5-00038-07-WR	LAKE	1090	521
CONTRACT NO. 6IK62				

ILLINOIS FED. AID PROJECT

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Contract No.
Deerfield Rd Reconstruction



DEERFIELD FIBER

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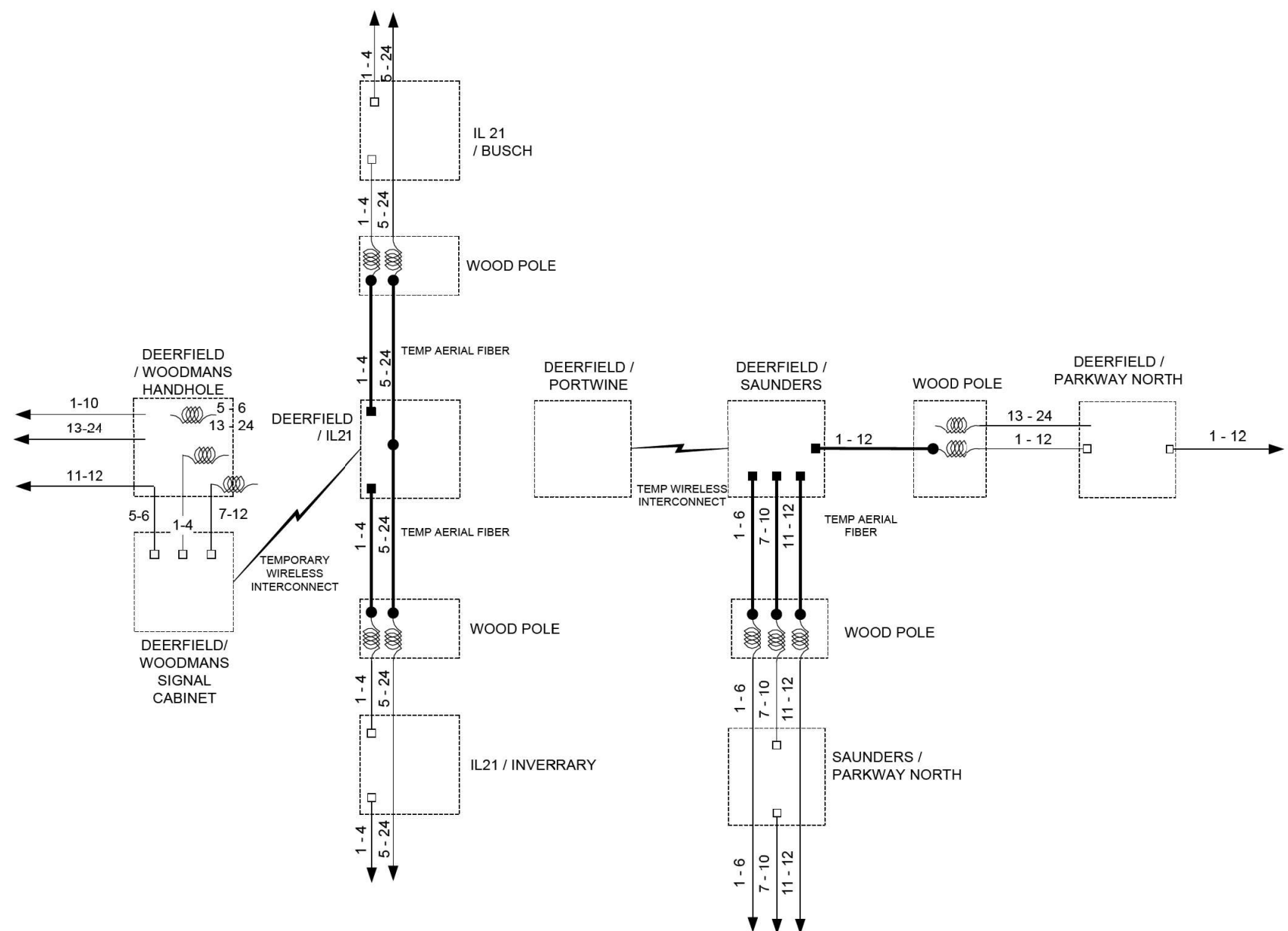
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIBER DETAILS (SHEET 1 OF 3)
DEERFIELD ROAD RECONSTRUCTION
RIVERWOODS, LAKE COUNTY

SCALE: 1" = 20' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS FED. AID PROJECT				

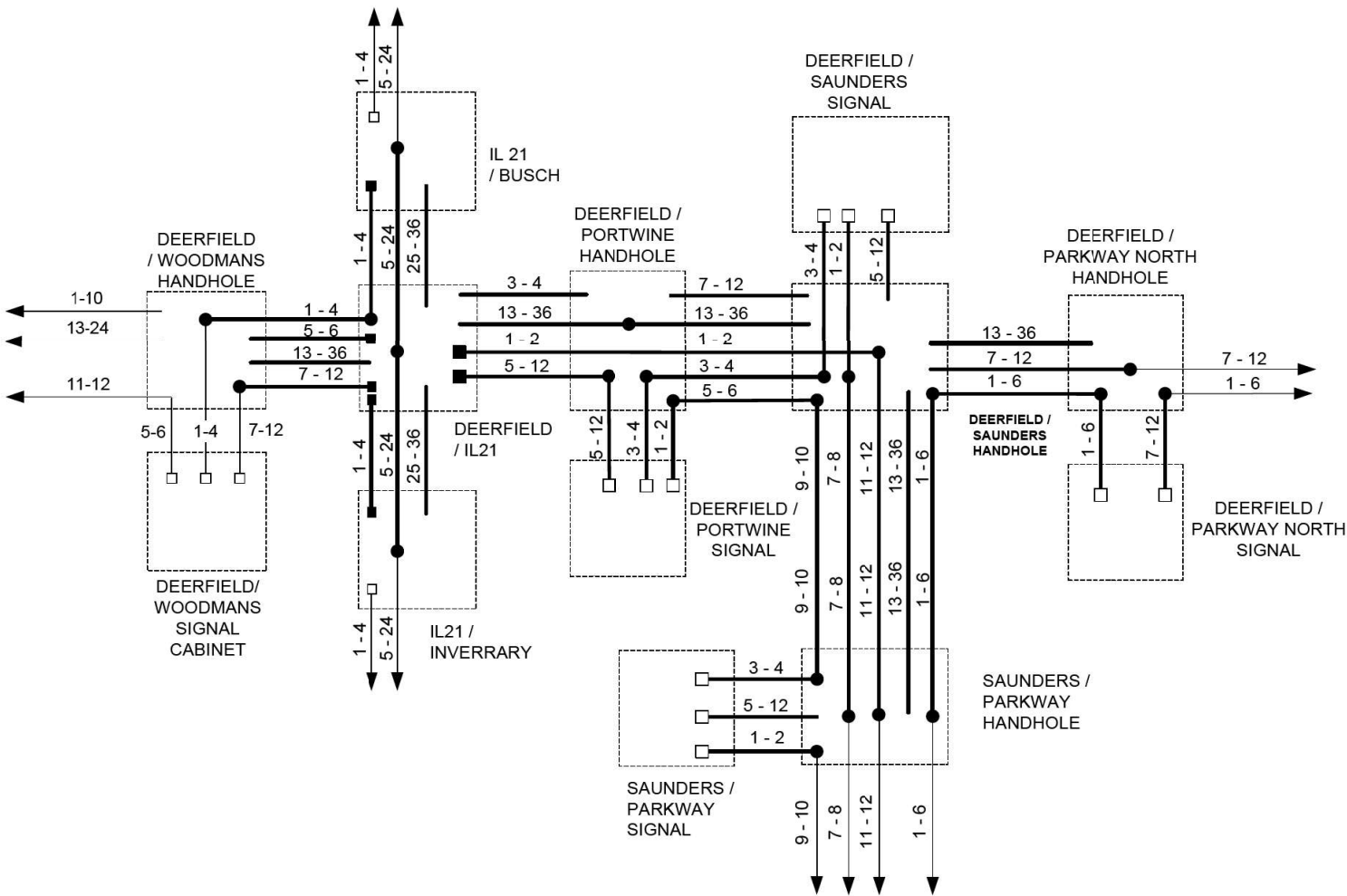
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- PROPOSED CELLULAR CONNECTION
 - EXISTING WIRELESS POINT TO POINT LINK
 - EXISTING CONNECTOR / EXISTING FIBER
 - NEW CONNECTOR / EXISTING FIBER
 - EXISTING FUSION SPLICE / EXISTING FIBER
 - NEW FUSION SPLICE / EXISTING FIBER
 - NEW CONNECTOR / NEW FIBER
 - NEW FUSION SPLICE / NEW FIBER

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Deerfield Rd Reconstruction											

FINAL



- (CELL)
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 - EXISTING CONNECTOR / EXISTING FIBER
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 - EXISTING FUSION SPlice / EXISTING FIBER
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LIGHTING GENERAL NOTES

- THE EXACT LOCATIONS OF ALL UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE LIGHTING SYSTEM. FOR THE LOCATIONS OF THE UTILITIES, CALL JULIE TOLL FREE AT (800) 892-0123. FOR THE LOCATIONS OF IDOT ELECTRICAL EQUIPMENT AND UNDERGROUND CABLES CALL MEADE ELECTRIC CO. AT (773) 287-7672.
- BEFORE INSTALLING LIGHT STANDARDS NEAR OVERHEAD AND UNDERGROUND ELECTRIC UTILITIES THE CONTRACTOR SHALL CALL COM ED FOR LOCATION APPROVAL AND MINIMUM CLEARANCE REQUIREMENTS.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AS WELL AS SUPERVISION/ DIRECTION AND MEANS/METHODS OF CONSTRUCTION.
- ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE FOLLOWING SPECIFICATIONS, WHICH ARE HEREBY MADE A PART HEREOF:
 - “STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION”, AS PREPARED BY IDOT.
 - “THE NATIONAL ELECTRICAL CODE”.
 - MUNICIPAL CODES & STANDARDS.
- NO MATERIALS SHALL BE DELIVERED TO THE JOB SITE UNTIL ALL PERTINENT EQUIPMENT SUBMITTALS HAVE BEEN REVIEWED BY THE ENGINEER.
- ALL UNDERGROUND LIGHTING WIRING SHALL BE XLP TYPE-USE, EXTRA ABRASION RESISTANCE, 600 VOLTS, INSTALLED IN SCH 40 HDPE CONDUIT A MINIMUM 30 INCHES BELOW FINISHED GRADE, FOLLOWING THE ROADWAY OR SIDEWALK EDGE.
- NO POLES SHALL BE ERECTED UNTIL THE RESPECTIVE FOUNDATIONS HAVE CURED, (IF APPLICABLE) AND HAVE BEEN REVIEWED BY THE ENGINEER.
- TO MAINTAIN THE STRUCTURAL INTEGRITY OF LIGHT POLES WITH LUMINAIRE ARMS, THEY SHALL NOT BE ERECTED AND LEFT TO STAND WITHOUT LUMINAIRES.
- ALL POLE HANDHOLES SHALL FACE AWAY FROM TRAFFIC.
- THE LIGHT POLE LOCATIONS SHALL COMPLY WITH THE MINIMUM CLEAR WIDTH FOR AN ACCESSIBLE ROUTE FOR SIDEWALKS PER CURRENT AMERICAN WITH DISABILITIES ACT (ADA) REQUIREMENTS (COMPLY WITH IDOT BDE CHAPTER 17-4.04 AND PROWAG R301.1).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT OF THE TOP OF FOUNDATION ELEVATION WITH THE FINISHED GRADE.
- EQUIPMENT GROUND CONDUCTORS SHALL BE SPLICED AND BONDED AT EACH LIGHT POLE OR OTHER PIECE OF EQUIPMENT.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MARK THE PROPOSED LOCATIONS OF ALL PROPOSED ELECTRICAL EQUIPMENT FOR EXAMINATION AND CONFIRMATION WITH THE ENGINEER. ALL UTILITIES SHALL BE LOCATED PRIOR TO MARKING PROPOSED ELECTRICAL EQUIPMENT.
- THE ELECTRICAL CONTRACTOR SHALL FURNISH TWO SETS OF FULL SIZE RECORD DRAWINGS TO THE ENGINEER UPON COMPLETION OF THE LIGHTING AND ELECTRICAL IMPROVEMENTS. THE DRAWINGS SHALL SHOW THE INSTALLED LOCATIONS OF ALL LIGHT POLES, UNDERGROUND CONDUITS/WIRING, HANDHOLES, JUNCTION BOXES AND CONTROLLER CABINETS. THE DRAWINGS WILL BE REVIEWED BY THE ENGINEER.
- UPON COMPLETION OF THE PROPOSED LIGHTING IMPROVEMENTS, THE CONTRACTOR SHALL PERFORM ELECTRICAL TESTING AND VERIFY THAT THE INSTALLATION COMPLIES WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS. ALL ELECTRICAL TESTING SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER.
- THE CONTRACTOR SHALL LABEL ALL WIRES WITH WIRE MARKERS INDICATING THE CIRCUIT ID IN EVERY CONTROLLER, POLE BASE, HAND HOLE AND SPLICE/CONNECTION POINT. WIRE MARKERS SHALL BE WHITE NYLON WITH INTEGRAL MECHANICAL FASTENER WITH MINIMUM ¾" X 1" WRITEABLE AREA.

LIGHTING BILL OF MATERIALS

DESCRIPTION	UNIT	QUANTITY
TRENCH BACKFILL	CU YD	5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	90
UNIT DUCT, 600V, 4-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE) 1 1/2" DIA. POLYETHYLENE	FOOT	690
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	FOOT	230
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	915
BREAKAWAY DEVICE, COUPLING WITH ALUMINUM SKIRT OVER STAINLESS STEEL SCREEN	EACH	16
REMOVAL OF POLE FOUNDATION	EACH	4
RELOCATE EXISTING LIGHTING UNIT	EACH	4
REMOVE EXISTING CABLE	EACH	335
CONDUIT SPLICE	EACH	1
LIGHT POLE FOUNDATION, METAL, SPECIAL	EACH	4
MAINTAIN EXISTING LIGHTING SYSTEM	L SUM	1

ABBREVIATIONS

A	AMPS	HH	HAND HOLE
CKT	CIRCUIT	HPS	HIGH PRESSURE SODIUM
CNC	COILABLE NON-METALLIC CONDUIT	PVC	POLYVINYL CHLORIDE
DIA	DIAMETER	RGS	RIGID GALVANIZED STEEL CONDUIT
FT	FOOT	ROW	RIGHT OF WAY
FOC	FACE OF CURB	SS	STAINLESS STEEL
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	STA	STATION
GND	GROUND	V	VOLTS
HDPE	HIGH DENSITY POLYETHYLENE	W	WATTS
		WR	WEATHER RESISTANT

CAUTION
NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THE LOCATION AND/OR ELEVATION OF EXISTING AND PROPOSED UTILITIES AS SHOWN ON THESE PLANS. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM ENGINEER OF ANY EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS.

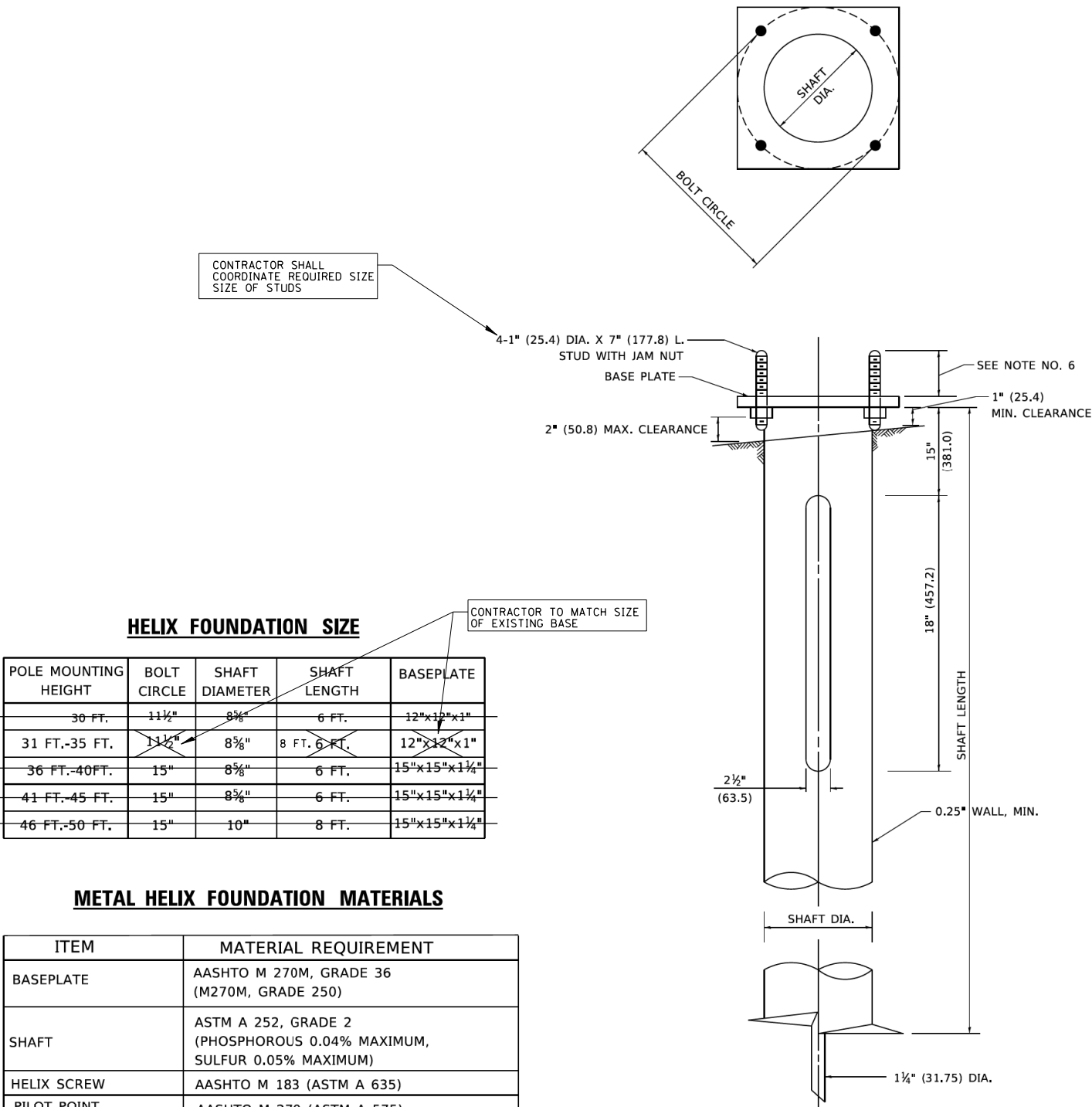
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- ① SLEEVE SHALL BE HEAVY WALL RIGID GALVANIZED STEEL (RGS) CONDUIT.
- ② SLEEVE SHALL EXTEND A MINIMUM OF 2 FT. BEYOND BACK OF CURB.
- ③ SLEEVE SHALL BE A MINIMUM OF 36" BELOW ROADWAY OR CURB BOTTOM.

ELECTRIC CONDUIT INSTALLATION

FILE NAME =	USER NAME = todrriscoll	DESIGNED AJD/RJJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DEERFIELD ROAD RECONSTRUCTION LIGHTING DETAILS (1 OF 2)				F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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NOTES

1. ALL DIMENSION IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. ALL MATERIAL SHALL BE GALVINIZED ACCORDING TO AASHTO M111, UNLESS OTHERWISE SPECIFIED.
3. ALL WELDS SHALL BE CONTINUOUS AND NOT LESS THAN 1#4" (6.35 mm) FILLET WELDS. THE WELDED FOUNDATION SHALL BE CAPABLE OF WITHSTANDING 10,000 FT/LBS (13558.18 n.m) OF INSTALLATION TORQUE APPLIED ABOUT THE AXIS OF THE FOUNDATION.
4. THE HELIX FOUNDATION SHAFT SHALL BE INSTALLED VERTICAL AND THE BASE PLATE SHALL BE IN LEVEL. THE BREAKAWAY COUPLINGS AND HARDWARE SHALL NOT BE USED TO ALIGN THE POLE INSTALLATION.
5. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE INSTALLATION OF THE LIGHT POLE.
6. THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF THE BASE PLATE WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS.
7. ANY VOIDS WITHIN THE METAL FOUNDATION SHALL BE FILLED WITH FINE AGGREGATE.
8. METAL FOUNDATIONS SHALL BE INSTALLED IN UNDISTURBED SOIL. PREDRILLING A PILOT HOLE AND/OR BACKFILLING AROUND THE FOUNDATION IS NOT ALLOWED.
9. THE METAL FOUNDATION SHALL NOT BE INSTALLED TO A TORQUE WHICH EXCEEDS THE MANUFACTURER'S MAXIMUM TORQUE RATING NOR SHALL IT BE INSTALLED TO AN INSTALLATION TORQUE VALUE OF LESS THAN 3,500 FT LB (4,750 KNM). METAL FOUNDATIONS THAT ARE NOT INSTALLED TO FULL INSTALLATION DEPTH OR DO NOT ACHIEVE THE MINIMUM INSTALLATION TORQUE SHALL BE REMOVED AND REPLACED WITH A CONCRETE FOUNDATION AT NO ADDITIONAL COST.
10. THE BASEPLATE SHALL BE PERPENDICULAR TO THE SHAFT AXIS (± 1°) AND THE HOLE CENTERLINE SHALL BE CONCENTRIC (± 0.188) TO THE SHAFT AXIS.
11. THE PILOT POINT AND SHAFT AXIS SHALL BE CONCENTRIC (± 0.125) AND IN LINE (± 2°).
12. THE BASEPLATE SHALL BE STAMPED WITH THE MANUFACTURERS NAME AND DATE OF MANUFACTURE.

PAID FOR UNDER "LIGHT POLE FOUNDATION, METAL, SPECIAL".

IDOT STANDARD BE-305
MODIFIED FOR THIS PROJECT

LIGHT POLE FOUNDATION

N.T.S.

GENERAL NOTES

- 1. THE OWNER AND OWNER'S REPRESENTATIVE, SHALL BE NOTIFIED IN WRITING AT LEAST (3) FULL WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION. CONTRACTOR'S SUPERVISOR SHALL NOTIFY BUSINESS OWNER.
- 2. UTILITIES EXIST IN THE AREA WHERE WORK IS PROPOSED. ACTUAL DEPTH OF UTILITIES ARE UNKNOWN. SHOULD ANY GIVEN UTILITY INTERFERE WITH THE PROPOSED WORK, PIPE ROUTING, ETC., THE CONTRACTOR SHALL, AT NO EXTRA COST TO THE OWNER, RESOLVE ANY AND ALL INTERFERENCE PROBLEMS. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF WORK AS REQUIRED.
- 3. ALL UTILITY COMPANIES SHALL BE CONTACTED AND THEIR FACILITIES SHALL BE LOCATED PRIOR TO ANY WORK IN ANY EASEMENT, RIGHT-OF-WAY, OR SUSPECTED UTILITY LOCATION.
- 4. BEFORE BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THE LINE AND GRADES SHOWN ON THE CONTRACT DRAWINGS. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE CONTRACT DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY REPORT SAME TO THE OWNER PRIOR TO PERFORMING WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF WORK AS REQUIRED.
- 5. ALL ELEVATIONS SHOWN ON THE CONTRACT DRAWINGS ARE BASED ON ESTABLISHED DATUM AT EACH SITE UNLESS OTHERWISE SPECIFIED.
- 6. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING SPECIFICATIONS, WHICH ARE HEREBY MADE A PART HEREOF:
 - A. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS", AS PREPARED BY IDOT, ADOPTED JANUARY 1, 2022; THE SPECIAL PROVISIONS ADOPTED JAN. 1, 2026.
 - B. "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", LATEST EDITION.
 - C. OWNER AND CURRENT VILLAGE CODES
 - D. NATIONAL ELECTRIC CODE.
 - E. TECHNICAL SPECIFICATIONS AND SPECIAL PROVISIONS ENCLOSED IN THE CONTRACT DOCUMENTS.
 - F. "STANDARD GENERAL CONDITIONS OF THE CONSTRUCTION CONTRACT" PREPARED BY THE ENGINEER'S JOINT CONTRACT DOCUMENTS COMMITTEE, 2007.
 - G. ALL APPLICABLE IEPA RULES AND REGULATIONS.

WHERE CONTRADICTIONS OCCUR BETWEEN THE ABOVE LISTED SPECIFICATION, CODES AND/OR CONTRACT DOCUMENTS, THE MORE STRINGENT SHALL APPLY

- 7. THE CONTRACT DOCUMENTS ARE NOT INTENDED TO SHOW EVERY AND ALL DETAILS OF WORK TO BE PERFORMED OR EQUIPMENT TO BE SUPPLIED. THE INTENT OF THE CONTRACT DOCUMENTS IS TO ILLUSTRATE THE CONCEPTUAL DESIGN AND LAYOUT. THE CONTRACTOR SHALL BE KNOWLEDGEABLE AND REGULARLY ENGAGED IN THE TYPE OF WORK DESCRIBED BY THESE CONTRACT DOCUMENTS, AND SHALL BE RESPONSIBLE FOR UNDERSTANDING THEIR INTENT. ANY WORK TO BE PERFORMED OR ITEM OF EQUIPMENT TO BE SUPPLIED WHICH IS NOT SPECIFICALLY CALLED FOR BY THESE CONTRACT DOCUMENTS BUT WHICH IS NECESSARY TO PROVIDE A COMPLETE AND SUCCESSFUL WORKING SYSTEM SHALL BE INCLUDED IN THE CONTRACTOR'S SCOPE OF WORK AT NO ADDITIONAL COST TO THE OWNER.
- 8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ALL MATERIAL QUANTITIES AND APPRAISE HIMSELF/HERSELF OF ALL CONDITIONS. THE CONTRACT PRICE SUBMITTED BY THE CONTRACTOR SHALL BE CONSIDERED AS THE TOTAL COST FOR THE COMPLETE PROJECT. NO CLAIMS FOR EXTRA WORK WILL BE RECOGNIZED DUE TO THE CONTRACTOR'S FAILURE TO UNDERSTAND THE SCOPE OF WORK.
- 9. NOT USED.
- 10. IT SHALL BE NECESSARY TO PERFORM WORK ADJACENT TO EXISTING UTILITIES THAT ARE LOCATED IN PRIVATE PROPERTY. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY PROTECTION FOR EXISTING UTILITIES IN CONFORMANCE WITH THE AFFECTED UTILITY COMPANIES REQUIREMENTS AS MAY BE REQUIRED TO PERFORM THE WORK OF THIS CONTRACT.
- 11. THE WORK PERFORMED UNDER THIS CONTRACT SHALL IN NO WAY INTERFERE WITH THE NORMAL OPERATION OF ANY EXISTING UTILITY SERVICE OR ADJACENT BUSINESSES. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ITEMS OF EQUIPMENT REQUIRED TO MAINTAIN SUCH NORMAL OPERATION AT NO ADDITIONAL COST TO THE OWNER. THE COST ASSOCIATED FOR THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE CONTRACT.
- 12. ORIENTATION OF PIPING, CONDUITS, EQUIPMENT, ETC. MAY VARY. CONTRACTOR TO COORDINATE SAME WITH THE OWNER.
- 13. ANY AND ALL DEWATERING REQUIRED TO KEEP EXCAVATIONS DRY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 14. SOIL EROSION PROTECTION SHALL BE IN ACCORDANCE WITH IEPA STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. ALL DISTURBED AREAS SHALL BE FINE GRADED, TOP-SOIL RESTORED (MIN. 6 INCHES), AND SOD APPLIED UNLESS OTHERWISE SPECIFIED ON THE PLANS.

GENERAL NOTES (CONT.)

- 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS AND METHODS AND TECHNIQUES OF CONSTRUCTION. OWNER'S REPRESENTATIVE/ENGINEER'S REVIEW OF SAME DOES NOT RELIEVE CONTRACTOR OF THIS RESPONSIBILITY. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SAFETY AND JOB SITE SAFETY.
- 16. LIMITS OF CONSTRUCTION SHALL BE SUBJECT TO OWNER'S APPROVAL AND SHALL NOT IMPACT EXISTING ROADWAY PAVEMENT EXCEPT WHERE IMPROVEMENTS ARE SHOWN BY DRAWINGS. LIMITS OF CONSTRUCTION (OTHER THAN ACROSS ROADWAY PAVEMENT) SHALL BE FENCED OFF WITH ORANGE CONSTRUCTION FENCING, SUBJECT TO THE OWNER'S APPROVAL.
- 17. ANY AND ALL BY-PASS PUMPING AS MAY BE REQUIRED FOR THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 18. ALL EQUIPMENT AND MATERIALS PROVIDED SHALL COMPLY WITH OWNER'S DESIGN REQUIREMENTS.
- 19. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER AS REQUIRED PRIOR TO PERFORMING ANY WORK RELATED TO THIS CONTRACT.
- 20. CONTRACTOR TO REVIEW THE VILLAGE'S CONFINED SPACE POLICY AND PROVIDE AN ACKNOWLEDGEMENT IN WRITING TO THE OWNER OR OWNER'S REPRESENTATIVE.
- 21. CONFINED SPACE EQUIPMENT SHALL BE UTILIZED IN ACCORDANCE WITH OSHA STANDARDS AND WILL BE AVAILABLE ON-SITE AT ALL TIMES.
- 22. THE CONTRACTOR IS LIMITED TO THE PROPERTY OWNED BY THE VILLAGE. ANY WORK, STORING OF MATERIALS, EQUIPMENT AND STAGING OUTSIDE THESE LIMITS, IS THE RESPONSIBILITY OF THE CONTRACTOR. ANY AGREEMENT REACHED BETWEEN A PRIVATE PROPERTY OWNER AND THE CONTRACTOR MUST BE IN WRITING, AND A COPY OF WHICH SHALL BE PROVIDED TO THE VILLAGE.

RECORD DRAWINGS & UTILITY NOTES

- 1. CERTAIN INFORMATION SHOWN ON THESE DRAWINGS HAS BEEN OBTAINED FROM DRAWINGS OF RECORD. CONTRACTOR SHALL VERIFY SUCH INFORMATION PRIOR TO ACTUAL START OF WORK. WHERE DISCREPANCIES ARE DISCOVERED THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE. FAILURE BY THE CONTRACTOR TO IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF SUCH DISCREPANCIES SHALL RESULT IN THE CONTRACTOR BEARING THE FULL BURDEN OF ALL RISKS/COSTS ATTRIBUTED TO THE DISCOVERED DISCREPANCY.
- 2. EASEMENTS FOR THE EXISTING UTILITIES AND UTILITIES WITHIN PUBLIC RIGHT-OF-WAYS ARE SHOWN ON THE DRAWINGS ACCORDING TO AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS.
- 3. THE EXISTING BURIED UTILITY LINES, PUBLIC AND PRIVATE, ARE SHOWN ON THE DRAWINGS ACCORDING TO INFORMATION AVAILABLE FROM RECORDS. THE LOCATION AND DEPTH OF EXISTING BURIED UTILITY LINES SHOWN ON THE DRAWINGS IS THEREFORE APPROXIMATE AND MAY VARY FROM FIELD CONDITIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION AND DEPTH OF BURIED UTILITY AND UNDERGROUND SPRINKLER SYSTEM LINES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES TO MARK THE LOCATION OF BURIED UTILITIES IN THE FIELD BEFORE BEGINNING EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY/ UNDERGROUND SPRINKLER SYSTEM, AND SHALL REPAIR ANY UTILITY/UNDERGROUND SPRINKLER SYSTEM LINES HE DAMAGES AT HIS OWN EXPENSE.
- 4. BEFORE ANY EXCAVATION IS CARRIED OUT, THE CONTRACTOR SHALL CAREFULLY UNCOVER ALL EXISTING BURIED UTILITY LINES AND UNDERGROUND SPRINKLER SYSTEMS WHICH CROSS NEW CONSTRUCTION SO HE CAN DETERMINE THEIR EXACT LOCATION AND DEPTH. IF EXISTING BURIED UTILITY LINES AND UNDERGROUND SPRINKLER SYSTEMS ARE ENCOUNTERED THAT CONFLICT WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OR OWNER SO THAT THE CONFLICT MAY BE RESOLVED.

EXCAVATION AND BACKFILL NOTES

- 1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE SOIL AND GROUNDWATER CONDITIONS AT THE SITE, AS THEY APPLY TO THE PROJECT.
- 2. THE CONTRACTOR SHALL EXAMINE THE CONTRACT DRAWINGS THOROUGHLY PRIOR TO BEGINNING ANY EXCAVATION, AND SHALL NOTIFY THE OWNER'S REPRESENTATIVE AT ONCE OF ANY DISCREPANCIES.
- 3. ALL WORK AREAS SHALL BE PROPERLY DRAINED DURING CONSTRUCTION. FINAL GRADES SHALL BE PROTECTED AGAINST DAMAGE FROM EROSION, TRAFFIC, AND FROST.
- 4. THE EXCAVATION FOR STRUCTURE AND/OR PIPE INSTALLATION SHALL BE KEPT DRY AT ALL TIMES DURING STRUCTURE/PIPE PLACEMENT. APPROPRIATE FACILITIES TO MAINTAIN THE DRY EXCAVATIONS/TRENCHES SHALL BE PROVIDED BY THE CONTRACTOR AND THE COST OF SUCH SHALL BE INCLUDED IN THE PRICES BID FOR THE VARIOUS ITEMS TO WHICH THEY PERTAIN.
- 5. THE EARTH RETENTION SYSTEM SHALL BE UTILIZED IN ACCORDANCE WITH OSHA STANDARDS.
- 6. SUITABLE EXCAVATED MATERIALS SUBJECT TO THE REVIEW OF THE OWNER'S REPRESENTATIVE MAY BE USED TO BACKFILL THE EXCAVATED AREAS OF THE SITE UNLESS SHOWN OTHERWISE. ALL REUSED MATERIAL SHALL BE CLEAN FROM DEBRIS, ASPHALT, PIPE, METAL AND CONCRETE.
- 7. NO UNDERGROUND WORK SHALL BE COVERED UNTIL IT HAS BEEN INSPECTED BY OWNER.
- 8. TRENCH BACKFILL SHALL BE PROVIDED FOR THE FULL DEPTH ABOVE PIPELINES UNDER PROPOSED OR EXISTING PAVEMENTS, UTILITIES, DRIVEWAYS, AND SIDEWALKS. THE TRENCH BACKFILL SHALL CONSIST OF A GRANULAR MATERIAL MEETING IDOT CRUSHED STONE CA-6 GRADATION SPECIFICATIONS. THE TRENCH BACKFILL SHALL BE COMPACTED IN ACCORDANCE WITH IDOT STANDARD SPECIFICATIONS AND SHALL EXTEND A MINIMUM OF TWO FEET ON EITHER SIDE OF THE PIPE CENTERLINE, OR AS OTHERWISE SHOWN OR SPECIFIED HEREIN.
- 9. BACKFILL IN PIPE TRENCHES IN OPEN AREAS AND LANDSCAPED AREAS SHALL CONSIST OF CA-7 FOR BEDDING, HAUNCHING, AND INITIAL BACKFILL; THEN SUITABLE EXCAVATED MATERIALS PLACED IN LIFTS AND COMPACTED TO A MINIMUM OF 90 PERCENT OF THE MAXIMUM DENSITY OBTAINABLE PER ASTM D 1557 FOR FINAL BACKFILL.
- 10. THE CONTRACTOR SHALL REMOVE ALL EXCESS UTILITY SPOIL. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- 11. ALL REMOVAL OR EXCAVATION ITEMS BEING DISPOSED OF AT AN UNCONTAMINATED SOIL FILL OPERATION OR CLEAN CONSTRUCTION AND DEMOLITION DEBRIS (CCDD) FILL SITE SHALL MEET THE REQUIREMENTS OF PUBLIC ACT 96-1416. ALL COSTS ASSOCIATED WITH MEETING THESE REQUIREMENTS SHALL BE INCLUDED IN THE UNIT PRICE COST FOR THE ASSOCIATED REMOVAL OR EXCAVATION ITEMS IN THE CONTRACT. THESE COSTS SHALL INCLUDE BUT ARE NOT LIMITED TO ALL REQUIRED TESTING, LAB ANALYSIS, CERTIFICATION BY A LICENSED PROFESSIONAL ENGINEER, AND STATE OR LOCAL TIPPING FEES. THE FORMS SIGNED OFF BY THE PROFESSIONAL ENGINEER TO BE PROVIDED BY THE CONTRACTOR.
- 12. NO EXCAVATIONS SHALL BE LEFT OPEN OVERNIGHT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COVER OPEN EXCAVATIONS WITH STEEL SHEET PILES. THE COST OF THIS PROCEDURE SHALL BE INCIDENTAL TO THE WORK IN WHICH IT PERTAINS.

SUBSURFACE OPERATION PLAN

AT THE PRECONSTRUCTION MEETING THE CONTRACTOR SHALL PREPARE AN "OPERATION PLAN" DRAWING SHOWING THE SEQUENCE OF OPERATION AND TIMING THAT IS PROPOSED FOR THE SUBSURFACE WORK. THIS PLAN DRAWING SHALL BE EXCLUSIVE OF ALL OTHER PLANS AND SCHEDULES REQUIRED UNDER THE CONTRACT. THE PLAN SHALL SHOW IN PLAN AND PROFILE SUPPLEMENTED BY SKETCHES, TEXT AND BAR DIAGRAMS THE EXTENT AND SEQUENCE OF WORK REQUIRED FOR THE SUBSURFACE CONSTRUCTION. THE PLAN SHALL SHOW ALL EXCAVATION, SHEETING, PROTECTION, DEWATERING PROCEDURES, UTILITIES, SUPPORT, DRAINS AND ALL OTHER FEATURES REQUIRED TO PERFORM THE SUBSURFACE OPERATION. THE PLAN SHALL BE SUBMITTED TO THE OWNERS REPRESENTATIVE FOR REVIEW. INSOFAR AS POSSIBLE ALL INFORMATION SHALL BE SHOWN ON THE PLAN FOR CONVENIENCE OF INTERPRETATION UNDER FIELD CONDITIONS. THE PLAN SHALL BE SEALED BY AN ILLINOIS REGISTERED STRUCTURAL ENGINEER.

ALL SHEETING/SHORING AND EARTH RETENTION/PROTECTION OF THE EXCAVATIONS, AROUND THE PROJECT WORK SITE SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

FINAL ACCEPTANCE AND INSPECTION

- 1. UPON COMPLETION OF ALL SPECIFIED WORK AND THE INSTALLATION OF THE EQUIPMENT, THE CONTRACTOR SHALL PERFORM FINAL TESTS OF THE EQUIPMENT TO VERIFY THAT THE INSTALLATION PERFORMS SATISFACTORILY. ACCEPTANCE TESTS CONDUCTED ON THE COMPLETED INSTALLATION WILL BE WITNESSED AND SUBJECT TO THE APPROVAL OF THE OWNER. NO SEPARATE PAYMENT WILL BE MADE FOR FINAL TESTING. THE COST OF FINAL TEST SHALL BE CONSIDERED INCLUDED IN THE COST OF THE LIFT STATION. AS A MINIMUM TESTING SHALL INCLUDE BUT NOT BE LIMITED TO OPERATIONAL TESTING OF ALL DEVICES AND EQUIPMENT. EQUIPMENT SUPPLIERS SHALL PROVIDE FACTORY TRAINED FIELD PERSONNEL FOR FINAL CHECK-OUT, START-UP AND TESTING. PRIOR TO SUCH FINAL TESTING, PIPING SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH INDUSTRY STANDARDS.

FINAL ACCEPTANCE AND INSPECTION (CONT.)

- 2. WHEN ALL THE WORK AS SHOWN ON THE DRAWINGS AND INCLUDED IN THE CONDITIONS AND SPECIFICATIONS HAS BEEN COMPLETED AND THE EQUIPMENT HAS BEEN INSTALLED, TESTED, PLACED INTO OPERATION, AND SUBSEQUENTLY HAS SATISFACTORILY OPERATED FOR 30 DAYS, A THOROUGH INSPECTION OF THE EQUIPMENT WILL BE MADE BY THE OWNER IN THE COMPANY OF THE CONTRACTOR, AND IF THE WORK IS FOUND TO COMPLY WITH THE DRAWINGS, CONDITIONS AND SPECIFICATIONS, THE WORK WILL BE FORMALLY ACCEPTED AND THE CONTRACTOR SO NOTIFIED AS TO THE FINAL ACCEPTANCE OF THE WORK BY THE OWNER. NOTIFICATION OF FINAL ACCEPTANCE WILL BE IN WRITING.
- 3. SHOULD ANY WORK BE FOUND TO BE INADEQUATE, FAULTY, OR OTHERWISE NOT IN ACCORDANCE WITH THESE DRAWINGS, CONDITIONS AND SPECIFICATIONS, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CORRECT SUCH WORK AT HIS/ HER OWN EXPENSE, PRIOR TO FINAL ACCEPTANCE.
- 4. THE PERIOD OF EQUIPMENT AND WORKMANSHIP GUARANTEES SHALL COMMENCE IMMEDIATELY AFTER FINAL ACCEPTANCE OF THE WORK. UPON BEING NOTIFIED OF THE FINAL ACCEPTANCE OF THE WORK, THE CONTRACTOR SHALL SUPPLY TO THE OWNER, A CERTIFICATE OF GUARANTEE WHICH SHALL GUARANTEE ALL EQUIPMENT AND WORKMANSHIP UNDER THE CONTRACTOR'S SCOPE OF WORK FOR A PERIOD OF ONE YEAR. THE VILLAGE SHALL BE NAMED ON ALL WARRANTIES.
- 5. UPON FINAL ACCEPTANCE THE CONTRACTOR SHALL PROVIDE RECORD DRAWINGS OF THE WORK, INCLUDING ELECTRONIC COPY IN AUTOCAD FORMAT, SEALED BY A LICENSED SURVEYOR OR ENGINEER.
- 6. CONTRACTOR SHALL TEST EACH PUMP IN PLACE TO VERIFY PERFORMANCE WITH SPECIFIED CAPACITY. FLOW METER SHALL BE USED TO MEASURE GALLONS PER MINUTE PUMPED.
- 7. THE PUMP STATION SHALL BE WATERTIGHT.

SHOP DRAWING REVIEW NOTES

- 1. THE CONTRACTOR SHALL SUBMIT FOR REVIEW DIMENSIONED OUTLINE SHOP DRAWINGS SHOWING THE GENERAL ARRANGEMENT OF THE EQUIPMENT TO BE FURNISHED, AND ITEMS TO BE INSTALLED. AS A MINIMUM FOUR COPIES OF ALL SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW.
- 2. BEFORE PROCEEDING WITH MANUFACTURE OF THE EQUIPMENT, THE CONTRACTOR SHALL SUBMIT FOR REVIEW GENERAL ASSEMBLY SHOP DRAWINGS, SUBASSEMBLY SHOP DRAWINGS, DETAIL SHOP DRAWINGS, CALCULATIONS, DESIGN DATA, CATALOG CUTS AND SIMILAR ENGINEERING DOCUMENTS REQUIRED TO DEMONSTRATE FULLY THAT ALL PARTS WILL CONFORM TO THE PROVISIONS AND INTENT OF THE DRAWINGS AND SPECIFICATIONS AND TO THE REQUIREMENTS OF THEIR INSTALLATION, OPERATION, AND MAINTENANCE. THESE SHOP DRAWINGS SHALL SHOW ALL NECESSARY DIMENSIONS AND FABRICATION DETAILS, INCLUDING THE DESIGN OF WELDED AND BOLTED JOINT CONNECTIONS, TOLERANCES ON FITS AND CLEARANCES, AND ALL FIELD JOINTS AND SUBASSEMBLIES IN WHICH THE CONTRACTOR PROPOSES TO SHIP THE EQUIPMENT. DESIGN CRITERIA, CALCULATIONS, AND DETAILED SPECIFICATIONS, SHALL BE SUBMITTED FOR THE DESIGN OF ALL MAJOR COMPONENTS AND FOR OTHER FEATURES OR DETAILS WHEN REQUESTED BY THE OWNER.
- 3. ALL SUBMITTALS BY THE CONTRACTOR SHALL BE CERTIFIED BY THE RESPECTIVE EQUIPMENT MANUFACTURER.
- 4. THE CONTRACTOR SHALL SUBMIT COMPLETE FULL-LINE WIRING DIAGRAMS COVERING ALL EQUIPMENT FURNISHED BY HIM. THE CONTRACTOR SHALL FURNISH SHOP DRAWINGS OF SWITCH DEVELOPMENTS FOR ALL INSTRUMENT AND CONTROL SWITCHES AND INTERNAL CONNECTION DIAGRAMS FOR ALL INSTRUMENTS, RELAYS, REGULATORS, ETC.
- 5. SHOP DRAWINGS SHALL INCLUDE ELECTRICAL DEVICES, ACCESSORIES AND WIRING FURNISHED AS COMPONENT PARTS OF MECHANICAL EQUIPMENT AND SHALL SHOW ARRANGEMENT AND DIMENSIONS.
- 6. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS FOR ALL WORK AREAS, INDICATING SOLUTIONS TO SPACE PROBLEMS AND COORDINATION WITH REQUIREMENTS OF EXISTING CONDITIONS.
- 7. PRIOR TO FINAL INSPECTION PROVIDE FOUR DUPLICATE LOOSE LEAF THREE RING BOUND COPIES OF OPERATIONS AND MAINTENANCE MANUALS IN DURABLE COVERS OF THE FOLLOWING ITEMS ORGANIZED AND TAB INDEXED IN ACCORDANCE WITH THE SPECIFICATIONS FORMAT AS FOLLOWS:
 - A. MAINTENANCE AND OPERATING INSTRUCTIONS AS PUBLISHED BY THE MATERIAL SUPPLIERS AND/OR EQUIPMENT MANUFACTURERS.
 - B. SPECIFIED EQUIPMENT GUARANTEES AND WARRANTIES. THE VILLAGE SHALL BE NAMED ON ALL WARRANTIES.
 - C. EMERGENCY INSTRUCTIONS.
 - D. WIRING DIAGRAMS.
 - E. SHOP DRAWINGS AND PRODUCT DATA.
 - F. INSPECTION PROCEDURES AND SERVICE RECOMMENDATIONS.
 - G. ASSEMBLY DRAWINGS AND PARTS LISTS WITH IDENTIFICATION SYMBOLS OR PART NUMBERS FOR ALL REPLACEABLE PARTS AND ASSEMBLIES.
 - H. TEST REPORTS.

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ILLINOIS FED. AID PROJECT													

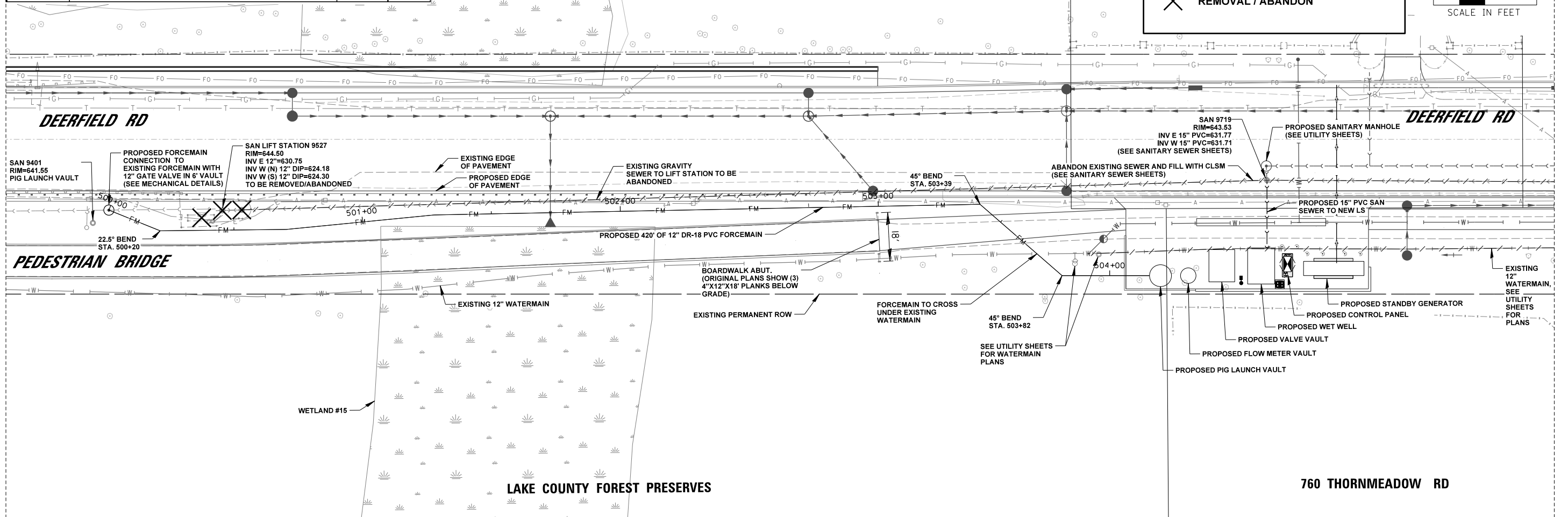
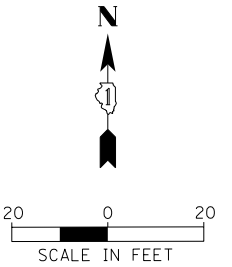
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	PLOTTED _____ ALIGNMENT CHECKED _____ RT. OF WAY CHECKED _____ CADD FILE NAME _____		
NOTE BOOK			
NO. _____			

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X3400002	DEMOLITION OF EXISTING PUMP STATION	L SUM	1
X5631212	CONNECTION TO EXISTING FORCE MAIN 12"	EACH	1
*	SANITARY FORCE MAIN, 12"	FOOT	420
X6024200	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID (SPECIAL)	EACH	1

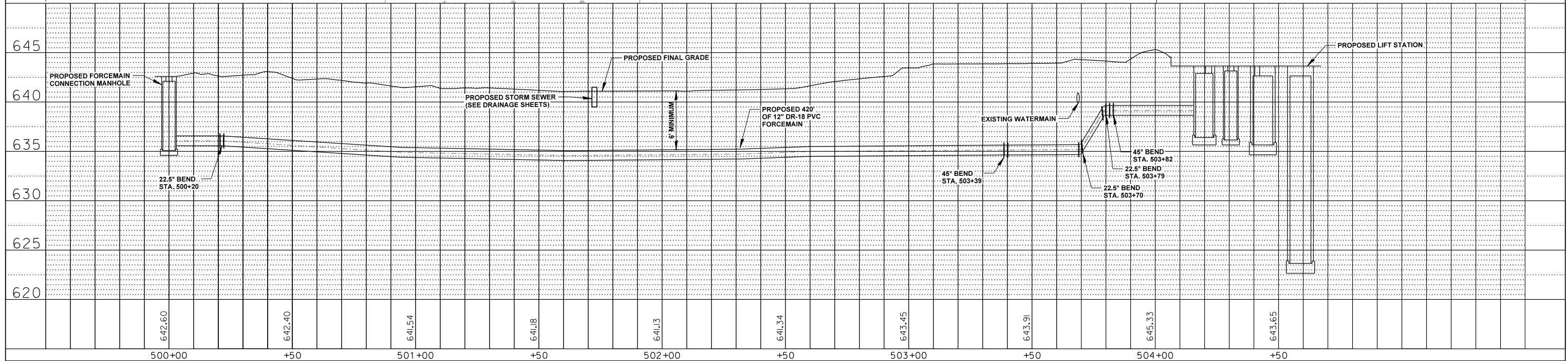
**LAKE COUNTY FOREST PRESERVES
(EDWARD L. RYERSON
CONSERVATION AREA)**

3440 DEERFIELD RD

—FM— PROPOSED FORCEMAIN
 -/-/- REMOVAL / ABANDON
 X REMOVAL / ABANDON



PROFILE	SURVEYED _____	BY _____	DATE _____
	PLOTTED _____		
NOTE BOOK	GRADES CHECKED _____		
	B.M. NOTED _____		
NO. _____	STRUCTURE NOTATIONS CH'KD _____		



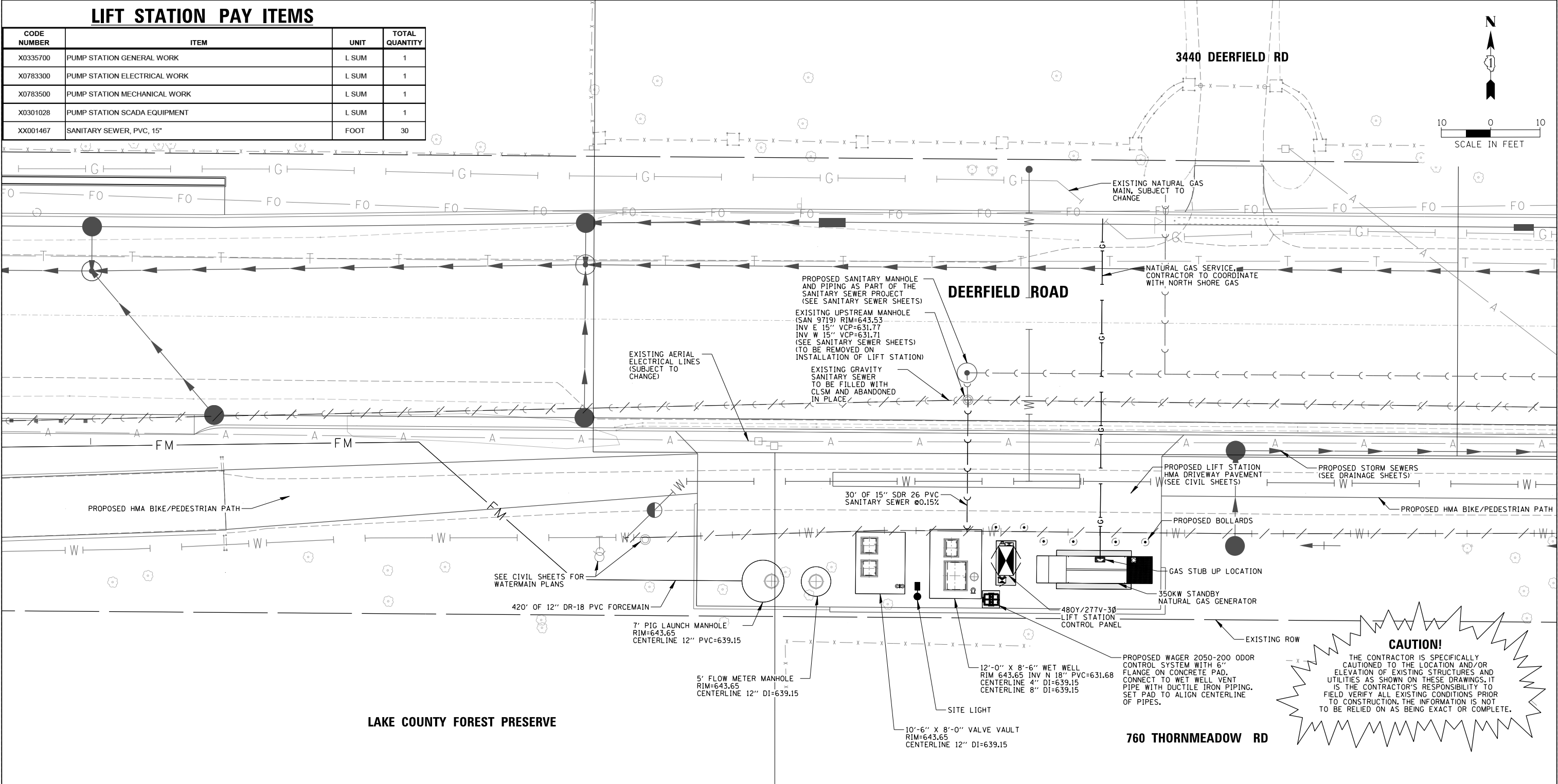
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

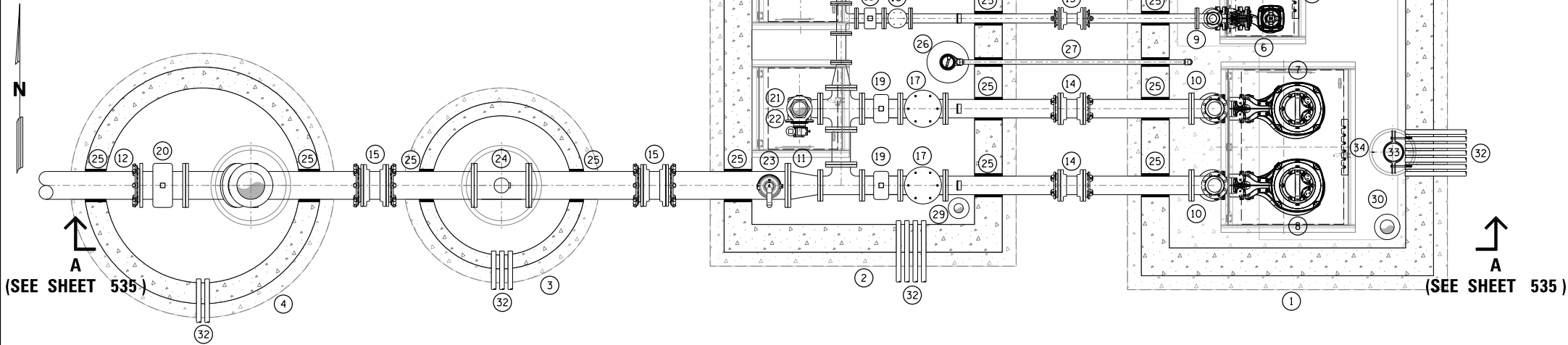
**DEERFIELD ROAD RECONSTRUCTION
FORCEMAIN PLAN AND PROFILE**

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		ILLINOIS	FED. AID PROJECT	

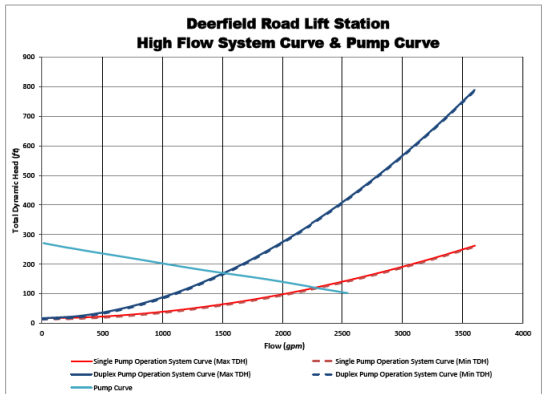
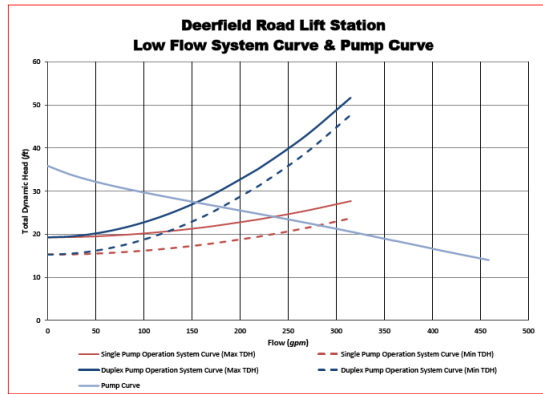


B
(SEE SHEET 536)



LIFT STATION PLAN (BELOW GRADE)

N.T.S.



PUMP RATING TABLE

PUMP	MOTOR	DESIGN DUTY POINT
P-1, P-2	3 HP	215 GPM AT 23' TDH

PUMP RATING TABLE

PUMP	MOTOR	DESIGN DUTY POINT
P-3, P-4, P-5	140 HP	1550 GPM AT 166' TDH

NOTES:

- PUMPS SIZED TO REACH 3100 GPM IN DUPLEX OPERATION
- P-5 TO BE PROVIDED AS A SPARE PUMP

Parameter	Value	Comments
Average Flow	207 gpm	2013-2014 Flow Data
Average Dry Weather Flow	155 gpm	
Min Dry Weather Flow	100 gpm	
Max Dry Weather Flow	215 gpm	
Dry Weather Peaking Factor	1.4	
Peak 10-Year Wet Weather Flow	3,100 gpm	2013-2014 Flow Frequency Analysis
Peak 10-Year Wet Weather Flow	3,108 gpm	Modeled design storm including future flows

FLOW RATE DATA

LIFT STATION IDENTIFIERS

- 12'-0" X 8'-6" CONCRETE WET WELL
- 10'-6" X 8'-0" CONCRETE VALVE VAULT
- 5' PRECAST CONCRETE FLOW METER VAULT
- 7' PRECAST CONCRETE PIG LAUNCH VAULT
- LOW FLOW PUMP #1 (P-1)
- LOW FLOW PUMP #2 (P-2)
- HIGH FLOW PUMP #3 (P-3)
- HIGH FLOW PUMP #4 (P-4)
- 4" DI FLG DISCHARGE PIPING AND FITTINGS
- 6" DI FLG DISCHARGE PIPING AND FITTINGS
- 12" DI FLG DISCHARGE PIPING AND FITTINGS
- 12" DR-18 PVC FORCEMAIN WITH CERTA-LOK AND RESTRAINED FLANGE COUPLING ADAPTER FOR PVC PIPE
- 4" DI MJ SLEEVE
- 8" DI MJ SLEEVE
- 12" DI MJ SLEEVE
- 4" DI FLG CHECK VALVE
- 8" DI FLG CHECK VALVE
- 4" DI FLG AUXILIARY GATE VALVE, RESILIENT WEDGE TYPE
- 8" DI FLG AUXILIARY GATE VALVE, RESILIENT WEDGE TYPE
- 12" DI FLG AUXILIARY GATE VALVE, RESILIENT WEDGE TYPE
- 6" DI FLG PLUG VALVE
- 6" FLG CAMLOCK ASSEMBLY COMPLETE WITH DUST CAP
- 2" COMPACT COMBINATION AIR RELEASE VALVE
- 12" ELECTROMAGNETIC FLOW METER
- CONCRETE STRUCTURE PENETRATION
- SUMP PUMP
- 1½" SCH 40 THREADED PVC DISCHARGE PIPING, FITTINGS, CHECK VALVE, AND BALL VALVE
- 15" SDR 26 (NON-PRESSURE RATED) PVC SANITARY SEWER @ 0.15%
- 4" DI VENT PIPE
- 6" DI VENT PIPE
- PLASTIC COATED CAST IRON STEPS
- POWER AND CONTROL CABLE AND CONDUIT
- LEVEL MANAGEMENT SYSTEM
- STAINLESS STEEL MOUNTING BRACKET

LIFT STATION NOTES

ANY AND ALL DEWATERING REQUIRED DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. USE OF PUMPS SUPPLIED UNDER THIS CONTRACT FOR THE PURPOSE OF DEWATERING DURING CONSTRUCTION WILL NOT BE PERMITTED.

ORIENTATION OF PIPING, CONDUITS, EQUIPMENT, ETC. MAY VARY. CONTRACTOR TO COORDINATE WITH EQUIPMENT LOCATIONS AS SHOWN ON DRAWINGS.

CABLES INTEGRALLY WIRED AND PROVIDED WITH PUMPS AND LEVEL MANAGEMENT SYSTEM SHALL BE OF SUFFICIENT LENGTH TO CONNECT TO PUMP CONTROL PANEL WITHOUT SPLICING, UNLESS SPECIFICALLY SHOWN ON DRAWINGS.

ACCESS HATCHES SHALL BE ALUMINUM WITH AN H-20 LOAD RATING, 300 PSF SAFETY GRATE AND RECESSED PADLOCK STAPLE. ALL PADLOCKS SHALL BE FURNISHED BY OWNER. CONTRACTOR SHALL COORDINATE ORIENTATION AND SIZE OF ACCESS HATCHES WITH UNHINDERED OPENING FOR PUMP REMOVAL.

PROVIDE AUTOMATIC ALTERNATOR TO ALTERNATE PUMPS AFTER EACH TIME THEY ARE OPERATED.

PROVIDE SEPARATE CONDUITS FOR PUMP POWER CABLES, PUMP CONTROL CABLES (IF APPLICABLE) AND LEVEL MANAGEMENT SYSTEM CABLES.

ALL FASTENERS, MOUNTING HARDWARE, LIFT CHAINS AND GUIDE RAILS SHALL BE STAINLESS STEEL.

THE MECHANICAL FLOAT SYSTEM SHALL OPERATE AS A BACKUP LEVEL MANAGEMENT SYSTEM. A SUBMERSIBLE TRANSDUCER WITH A 0-35 FOOT RANGE SHALL OPERATE AS A PRIMARY LEVEL MANAGEMENT SYSTEM.

PROVIDE CONDENSATION HEATER AND THERMOSWITCH FOR PUMP CONTROL PANEL. HEATER SIZE TO BE COORDINATED BY CONTRACTOR FOR THE SIZE OF THE PUMP CONTROL PANEL ENCLOSURE.

PROVIDE A 120V-20A GFCI DUPLEX RECEPTACLE LOCATED WITHIN THE PUMP CONTROL PANEL ENCLOSURE FOR PROGRAMMING.

PRIOR TO FABRICATION, CONTRACTOR SHALL VERIFY GRADE ELEVATIONS AND INVERTS OF SEWERS AND STRUCTURES. CONTRACTOR SHALL COORDINATE INVERTS SUCH THAT JOINTS DO NOT FAIL AT LOCATION(S) OF PIPE PENETRATIONS.

BACKFILL ANY EXCAVATIONS WITH COMPACTED GRANULAR MATERIAL EQUAL TO IDOT CA-6. BACKFILL AND COMPACT IN LIFTS OF NO GREATER THAN 6" TO 8" TO ACHIEVE 98% DENSITY USING MAXIMUM STANDARD PROCTOR DRY DENSITY PER ASTM D698 (UNLESS OTHERWISE INDICATED).

FURNISH SOLID SLEEVE COUPLINGS AND/OR OFFSET FITTINGS AS REQUIRED TO ACCOMMODATE PIPING ALIGNMENTS BETWEEN CONCRETE STRUCTURES.

FURNISH ELASTOMERIC SEAL ELEMENT OR ASTM C923 RESILIENT CONNECTOR WHERE PIPING PENETRATES CONCRETE STRUCTURES.

EXTERIOR SURFACES OF CONCRETE STRUCTURES BELOW GRADE SHALL BE COATED WITH BITUMINOUS WATER PROOFING.

EXTERIOR JOINTS OF CONCRETE STRUCTURES BELOW GRADE SHALL BE SEALED WITH ASTM C887 EXTERNAL SEALING BAND.

INTERIOR JOINTS OF CONCRETE STRUCTURES BELOW GRADE SHALL BE SEALED WITH ASTM C990 BUTYL MASTIC SEALANT.

ALL FLANGED JOINTS SHALL BE INSTALLED WITH FULL-FACE 1/8" THICK SBR GASKETS AND LOW CARBON STEEL (GRADE A) FASTENERS WITH ZINC PLATED FINISH UNLESS OTHERWISE RECOMMENDED BY MANUFACTURER.

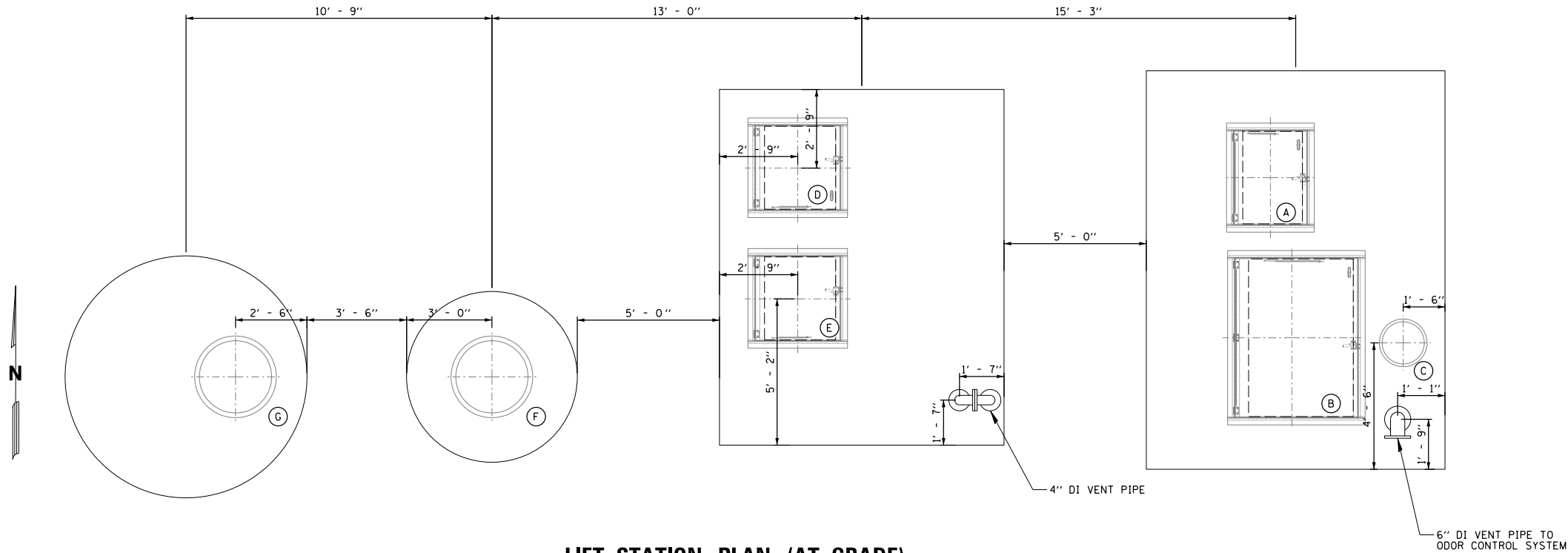
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DEERFIELD ROAD RECONSTRUCTION
LIFT STATION PLAN

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I257	I5-00038-07-WR	LAKE	1090	533
				CONTRACT NO. 6IK62
ILLINOIS FED. AID PROJECT				



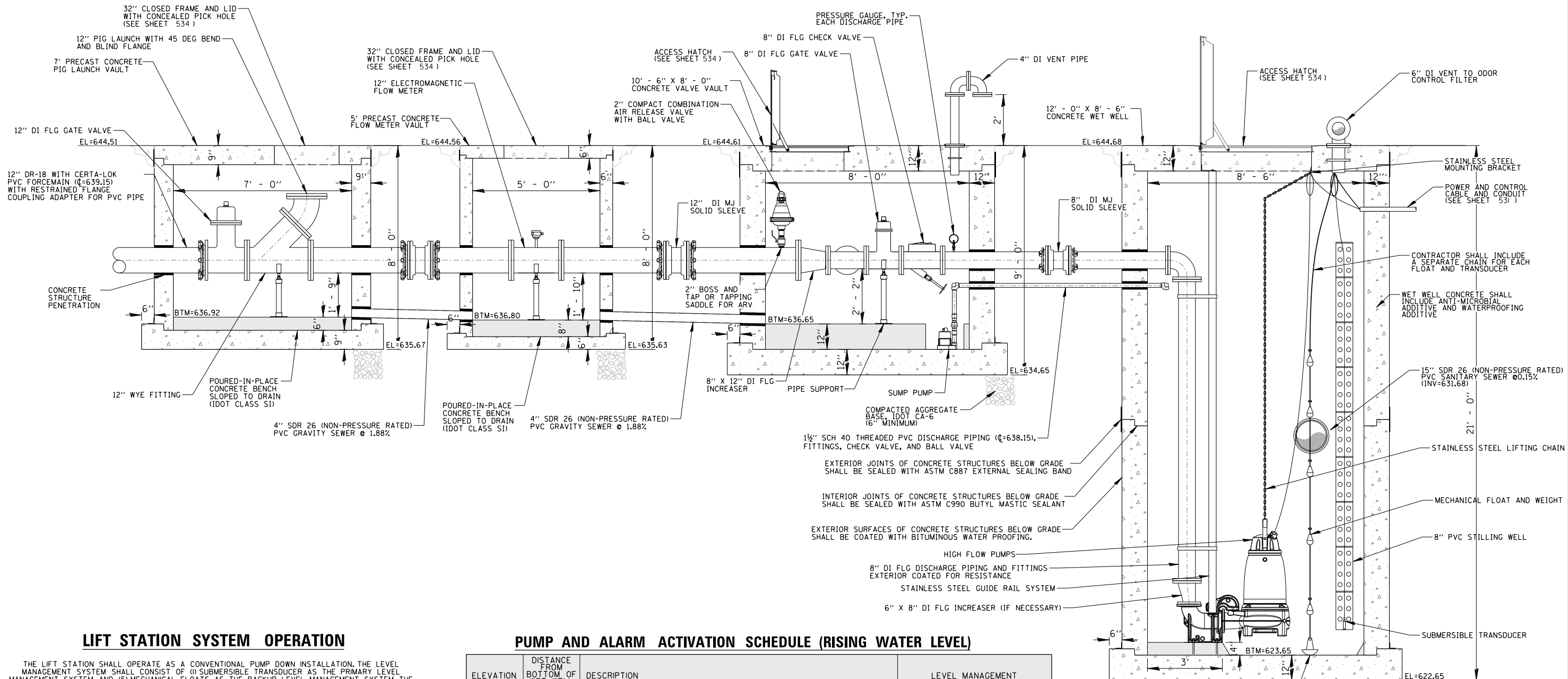
LIFT STATION PLAN (AT GRADE)
N.T.S.

ACCESS HATCH SCHEDULE

ID	DESCRIPTION	CLEAR OPENING
A	WET WELL ACCESS HATCH #1	REFER TO PUMP MANUFACTURER
B	WET WELL ACCESS HATCH #2	REFER TO PUMP MANUFACTURER
C	LEVEL MANAGEMENT ACCESS HATCH	12"Ø
D	VALVE VAULT ACCESS HATCH #1	30" X 30"
E	VALVE VAULT ACCESS HATCH #2	30" X 30"
F	FLOW METER VAULT ACCESS HATCH	32"Ø
G	PIG LAUNCH VAULT ACCESS HATCH	32"Ø

NOTES:

- DIMENSIONS ARE ANTICIPATED FOR EQUIPMENT AS LISTED THROUGHOUT CONTRACT DRAWINGS. IF DIFFERENT DIMENSIONS ARE REQUIRED, DUE TO THE EQUIPMENT OFFERED BY CONTRACTOR THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL COORDINATION AND CHANGES RESULTING IN NO ADDITIONAL COST TO THE OWNER. THE PROPOSED ACCESS HATCH LAYOUT SHALL BE SUBMITTED FOR REVIEW PRIOR TO CONSTRUCTION.
- HATCHES SHALL BE FURNISHED WITH RECESSED HANDLES AND CONCEALED PADLOCKS
- FRAME AND LID SHALL BE CLOSED LID WITH CONCEALED PICK HOLES



LIFT STATION SYSTEM OPERATION

THE LIFT STATION SHALL OPERATE AS A CONVENTIONAL PUMP DOWN INSTALLATION. THE LEVEL MANAGEMENT SYSTEM SHALL CONSIST OF (1) SUBMERSIBLE TRANSDUCER AS THE PRIMARY LEVEL MANAGEMENT SYSTEM AND (5) MECHANICAL FLOATS AS THE BACKUP LEVEL MANAGEMENT SYSTEM. THE SYSTEM OPERATION SHALL BE BY MEANS OF A PUMP CONTROL PANEL, WITH AN AUTOMATIC ALTERNATOR TO ALTERNATE THE PUMPS EACH "ON" CYCLE.

A SUBMERSIBLE TRANSDUCER SHALL MEASURE THE WATER LEVEL WITHIN THE WET WELL. AS THE WATER LEVEL RISES WITHIN THE WET WELL, REACHING THE "LOW FLOW LEAD PUMP ON" ELEVATION, THE PUMP CONTROLLER SHALL ENERGIZE AND START THE LOW FLOW LEAD PUMP. ONCE THE WATER LEVEL LOWERS WITHIN THE WET WELL, REACHING THE "LOW FLOW PUMPS OFF" ELEVATION, THE PUMP CONTROLLER SHALL DE-ENERGIZE AND STOP THE LOW FLOW LEAD PUMP. THE PUMP CONTROLLER SHALL THEN SEND A SIGNAL UPON DE-ENERGIZING THE LEAD PUMP SO THAT THE LAG PUMP WILL ACTIVATE UPON THE NEXT OPERATION. IF THE WATER LEVEL CONTINUES TO RISE WITHIN THE WET WELL, REACHING THE "LOW FLOW LAG PUMP ON" ELEVATION, WHILE THE LEAD PUMP IS OPERATING, THEN THE PUMP CONTROLLER SHALL ENERGIZE THE LAG PUMP UNTIL THE WATER LEVEL LOWERS WITHIN THE WET WELL. IF THE WATER LEVEL CONTINUES TO RISE BEYOND THAT AND REACHES THE "HIGH FLOW LEAD PUMP ON/LOW FLOW PUMP INTERRUPT", THE LOW FLOW PUMPS SHALL BE DE-ACTIVATED AND THE HIGH FLOW LEAD PUMP SHALL BE ENERGIZED UNTIL THE WATER LEVEL LOWERS DOWN TO THE "HIGH FLOW PUMPS OFF ELEVATION". THE ALTERNATING RELAY SHALL SEND A SIGNAL UPON THE PUMP STOPPING SO THAT THE HIGH FLOW LAG PUMP SHALL START UPON THE NEXT OPERATION. IF THE WATER LEVEL CONTINUES TO RISE WITHIN THE WET WELL, REACHING THE "HIGH FLOW LAG PUMP ON" ELEVATION WHILE HIGH FLOW LEAD PUMP IS OPERATING, THEN THE CONTROLLER SHALL ENERGIZE THE HIGH FLOW LAG PUMP, ALLOWING THE WATER LEVEL TO RECODE DOWN TO THE "HIGH FLOW PUMPS OFF" ELEVATION. IF THE WATER LEVEL CONTINUES TO RISE BEYOND THE "HIGH FLOW LAG PUMP ON" ELEVATION WHILE BOTH HIGH FLOW PUMPS ARE OPERATING, REACHING THE "HIGH LEVEL (ALARM)" ELEVATION, THEN A HIGH WATER LEVEL ALARM SHALL BE SENT TO THE OWNERS, INDICATING THAT THERE IS A HIGH WATER LEVEL IN WET WELL. BOTH THE LOW FLOW PUMPS AND HIGH FLOW PUMPS SHALL NOT OPERATE SIMULTANEOUSLY. IF THE WATER LEVEL LOWERS WITHIN THE WET WELL BELOW THE "LOW FLOW PUMPS OFF" ELEVATION, REACHING THE "LOW LEVEL (ALARM)" ELEVATION, A LOW WATER LEVEL ALARM SHALL BE SENT TO THE OWNERS AND INDICATING THAT THERE IS A LOW WATER LEVEL IN THE WET WELL AND ANY PUMP OPERATING SHALL BE DE-ENERGIZED.

DURING NORMAL OPERATION OF THE LOW FLOW PUMPS THE PUMP CONTROLLER SHALL HAVE A COUNTER MECHANISM TO INTERRUPT THE NORMAL OPERATION OF THE LOW FLOW PUMPS AND ALLOW THE WATER LEVEL IN THE WET WELL TO FILL TO THE "HIGH FLOW LEAD PUMP ON" LEVEL, ACTIVATING ONE OF THE MAIN PUMPS IN A "FLUSH" MODE ONCE PER 24 HOUR PERIOD.

PUMP AND ALARM ACTIVATION SCHEDULE (RISING WATER LEVEL)

ELEVATION	DISTANCE FROM BOTTOM OF WET WELL (623.65)	DESCRIPTION	LEVEL MANAGEMENT
635.40	11'-9"	HIGH LEVEL (ALARM)	FLOAT SETTING
633.40	9'-9"	HIGH FLOW LAG PUMP ON	TRANSDUCER AND FLOAT SETTING
632.40	8'-9"	HIGH FLOW LEAD PUMP ON/LOW FLOW PUMP INTERRUPT	TRANSDUCER SETTING
631.15	7'-6"	LOW FLOW LAG PUMP ON	TRANSDUCER AND FLOAT SETTING
630.15	6'-6"	LOW FLOW LEAD PUMP ON	TRANSDUCER SETTING

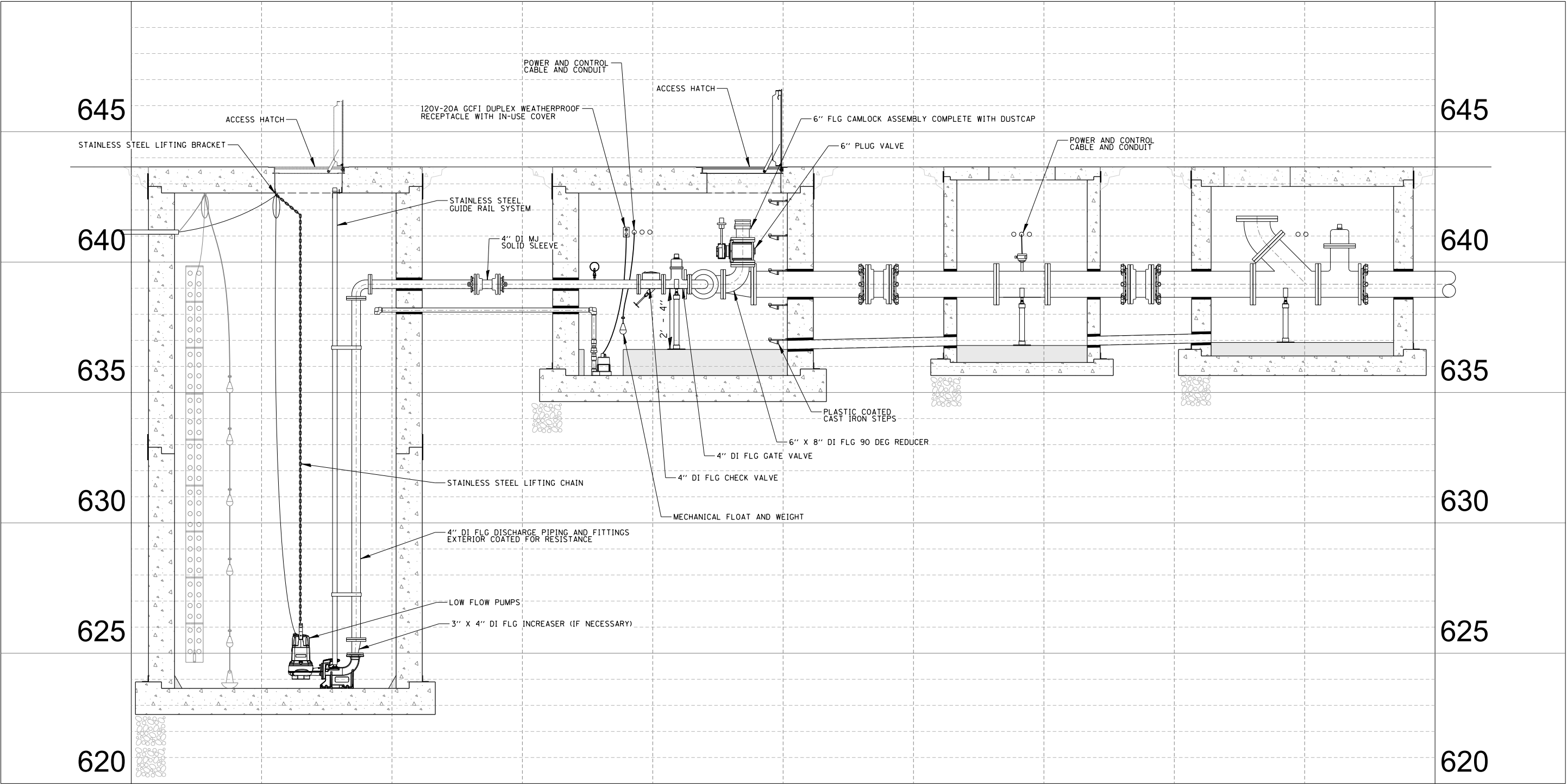
PUMP AND ALARM ACTIVATION SCHEDULE (FALLING WATER LEVEL)

ELEVATION	DISTANCE FROM BOTTOM OF WET WELL (623.65)	DESCRIPTION	LEVEL MANAGEMENT
628.40	4'-9"	HIGH FLOW PUMPS OFF	TRANSDUCER AND FLOAT SETTING
626.15	2'-6"	LOW FLOW PUMPS OFF	TRANSDUCER SETTING
625.65	2'-0"	LOW LEVEL (ALARM)	FLOAT SETTING

VALVE VAULT ALARM ACTIVATION SCHEDULE

ELEVATION	DISTANCE FROM BOTTOM OF VAULT (636.65)	DESCRIPTION	LEVEL MANAGEMENT
637.65	1' - 0"	HIGH LEVEL (ALARM)	FLOAT SETTING

CAUTION!
DO NOT ALLOW EXCAVATION TO FILL WITH WATER. STRUCTURE MAY FLOAT DURING CONSTRUCTION. CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS, AND PROVIDE DEWATERING AS REQUIRED.

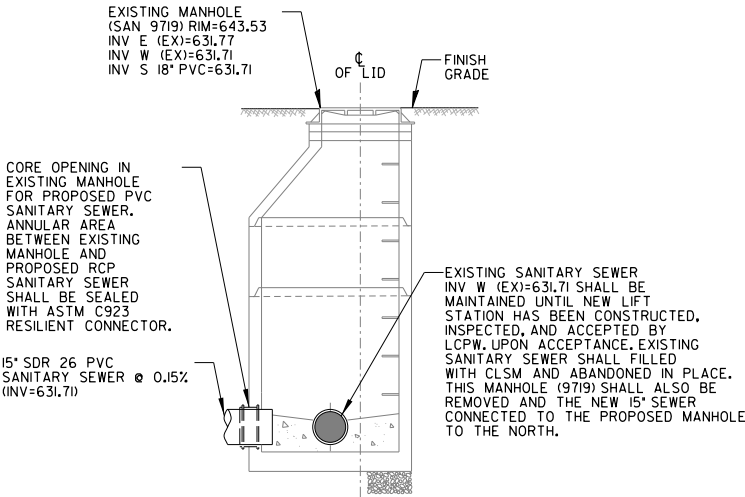


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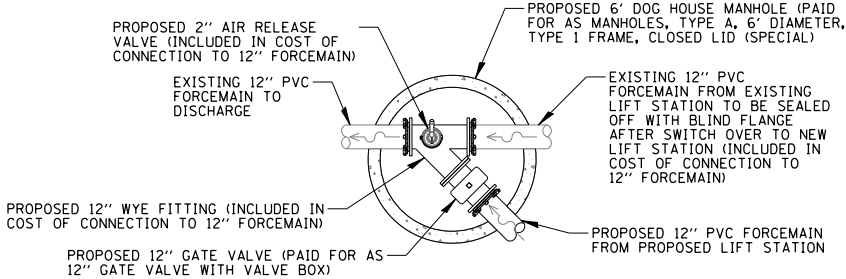
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DEERFIELD ROAD RECONSTRUCTION LIFT STATION PROFILE (SECTION B-B)			
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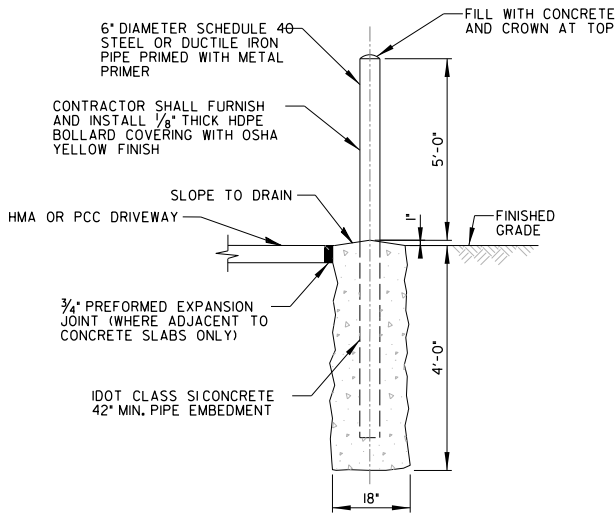
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ILLINOIS FED. AID PROJECT				



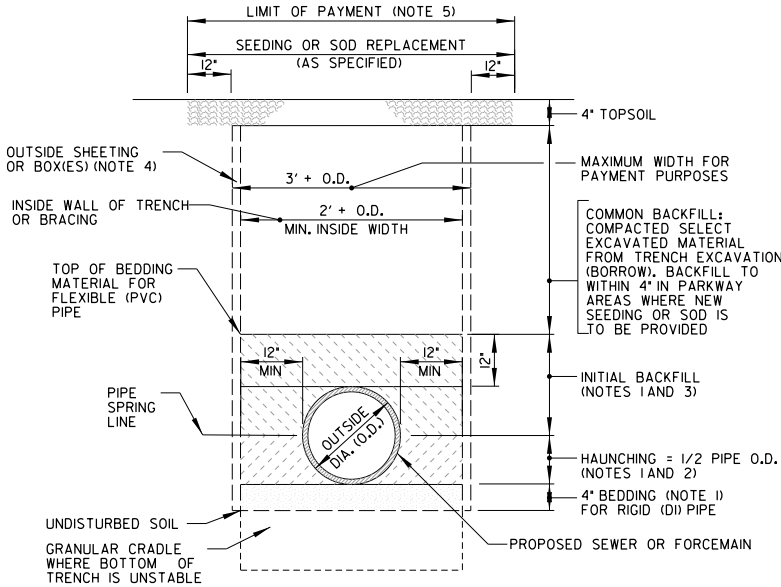
EXISTING SANITARY MANHOLE (SAN 9719) DETAIL
N.T.S.



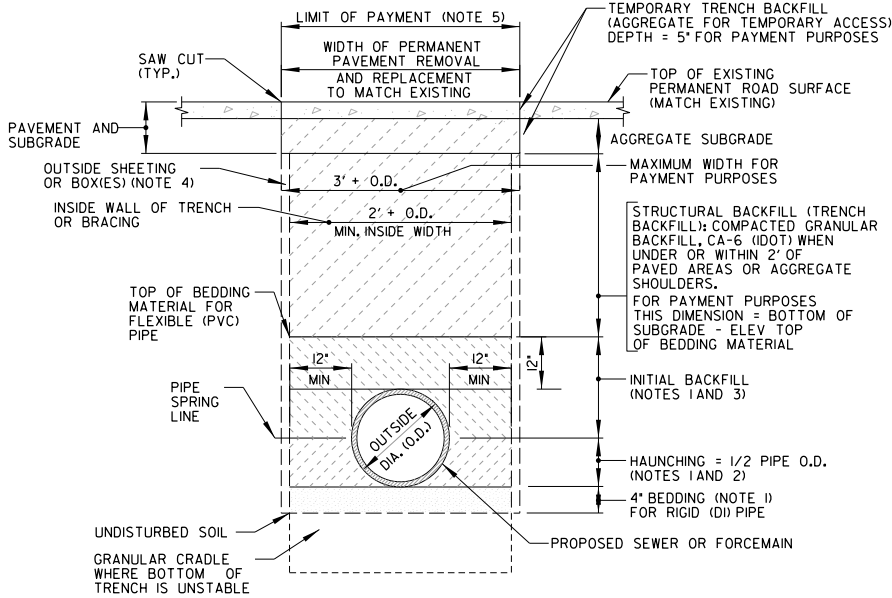
FORCEMAIN CONNECTION DETAIL
N.T.S.



6" BOLLARD DETAIL
N.T.S.



WITHIN PARKWAY AREAS (COMMON BACKFILL)

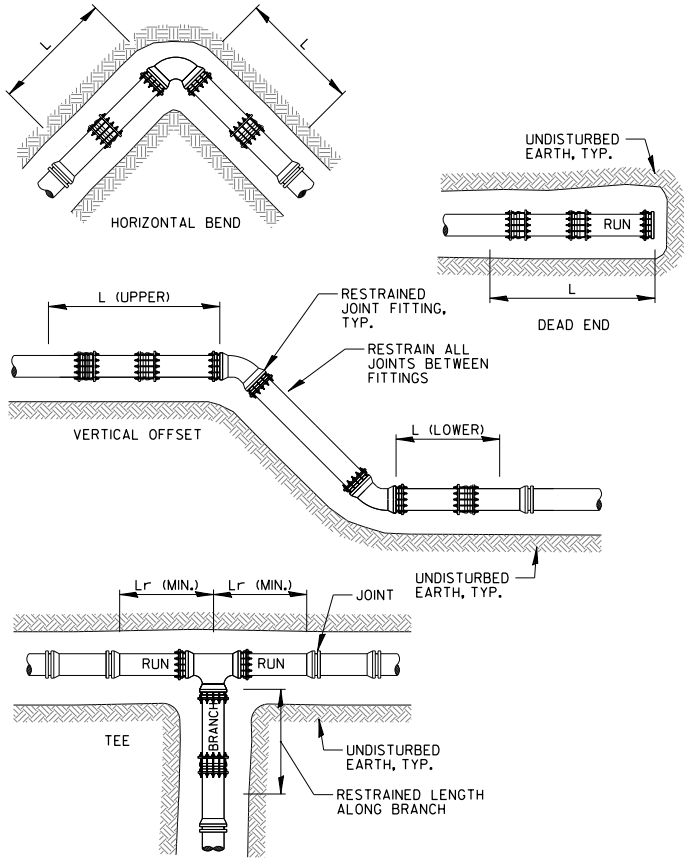


WITHIN PAVED, DRIVEWAY OR WALKWAY AREAS (STRUCTURAL BACKFILL)

NOTES:

- BEDDING/HAUNCHING/INITIAL BACKFILL:
 - FOR FLEXIBLE (PVC) PIPE THE BEDDING/HAUNCHING/INITIAL BACKFILL MATERIAL SHALL CONFORM TO IDOT CA-II OR CA-13 GRADATION.
 - FOR RIGID (DI) PIPE THE BEDDING MATERIAL SHALL BE CA-II, AND THE HAUNCHING/INITIAL BACKFILL SHALL MATCH THE TRENCH BACKFILL MATERIAL.
- AFTER BEDDING HAS BEEN PLACED/COMPACTED/BROUGHT TO GRADE, PLACE AND COMPACT HAUNCHING TO PIPE SPRING LINE.
- PLACE INITIAL BACKFILL IN TWO STAGES AS FOLLOWS:
1st STAGE - PLACE & COMPACT TO TOP OF PIPE
2nd STAGE - PLACE & COMPACT AT LEAST 12" OVER TOP OF PIPE
- VOIDS LEFT BY SHEETING/BRACING WHEN REMOVED SHALL BE FILLED WITH FINE SAND AND SHALL BE CONSIDERED INCIDENTAL TO THE WORK. SHEETING TO BE LEFT IN PLACE WHEN SPECIFIED ON THE PLANS.
- CONTRACTOR IS RESPONSIBLE FOR ALL RESTORATION BEYOND THE LIMIT OF PAYMENT AS SHOWN.
- THE COST FOR BEDDING SHALL BE INCLUDED IN THE COST OF PIPE INSTALLATION.

TYPICAL TRENCH BACKFILL DETAILS AND TRENCHING NOTES FOR PARKWAY AREAS AND PAVED AREAS
N.T.S.



RESTRAINED LENGTH TABLE

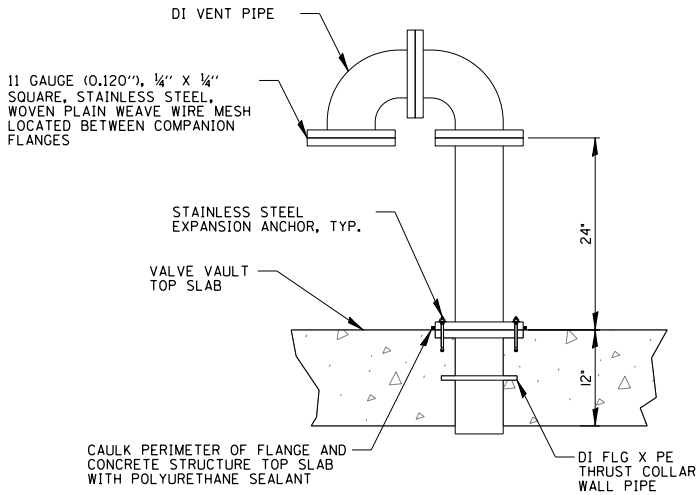
PIPE SIZE	HORIZONTAL BEND			TEE	DEAD END
	90°	45°	22.5°		
6"	17 FT	8 FT	4 FT	14 FT	36 FT
8"	23 FT	10 FT	5 FT	25 FT	47 FT
10"	27 FT	11 FT	6 FT	34 FT	56 FT
12"	32 FT	13 FT	7 FT	44 FT	66 FT

NOTES:

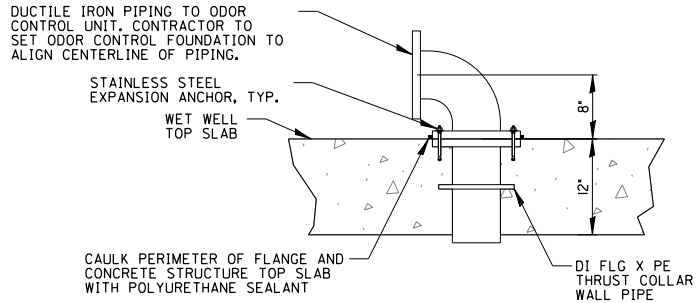
- ALL JOINTS WITHIN LENGTH 'L' OF FITTING SHALL BE RESTRAINED.
- PLACE RESTRAINED JOINT AGAINST UNDISTURBED EARTH, IF PLACED AGAINST BACKFILL, COMPACTED GRANULAR MATERIAL EQUAL TO IDOT CA-6, BACKFILL AND COMPACT IN LIFTS OF NO GREATER THAN 6 TO 8 INCHES TO ACHIEVE 98% DENSITY USING MAXIMUM STANDARD PROCTOR DRY DENSITY PER ASTM D698 (UNLESS OTHERWISE INDICATED).
- CONTRACTOR SHALL FURNISH AND INSTALL RESTRAINED JOINT FITTINGS IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
- THE RESTRAINED LENGTH TABLE IS BASED ON TYPE 4 LAYING CONDITION, 100 PSI (MAX) INTERNAL PIPE PRESSURE, 1.5 SAFETY FACTOR AND SILTY GRAVEL MIXTURE.
- PIPE DEPTH SHALL BE A MINIMUM OF 5'-6" UNLESS OTHERWISE SHOWN.

JOINT RESTRAINT FITTINGS DETAIL

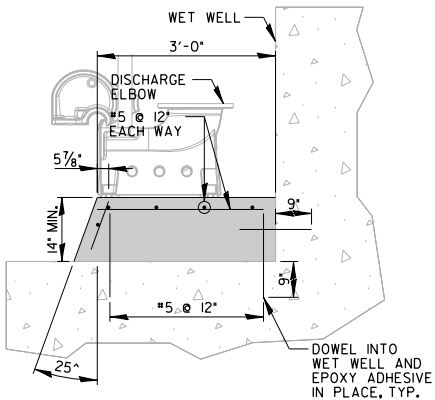
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VALVE VAULT VENT PIPE DETAIL
N.T.S.

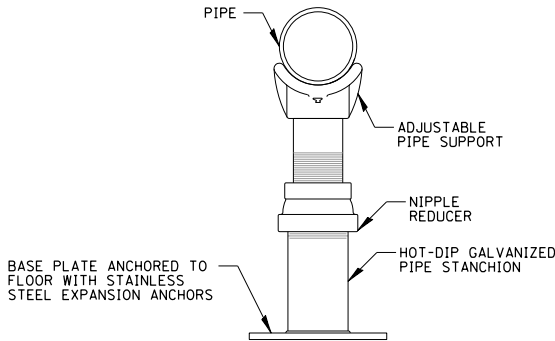


WET WELL VENT PIPE DETAIL
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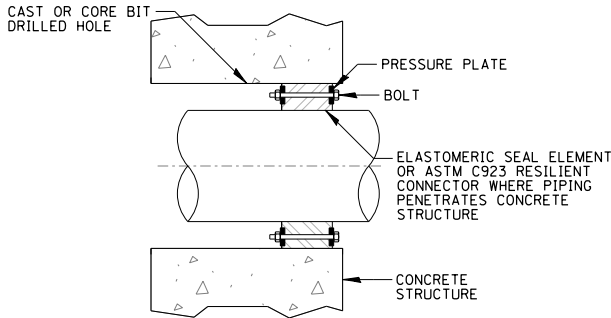
- NOTES:
- WET WELL RAISED PUMP BASE SHALL BE CONSTRUCTED WITH IDOT CLASS SICONGRETE.
 - FINAL DIMENSIONS TO BE DETERMINED UPON PUMP SELECTION.

**WET WELL
RAISED PUMP BASE DETAIL**
N.T.S.

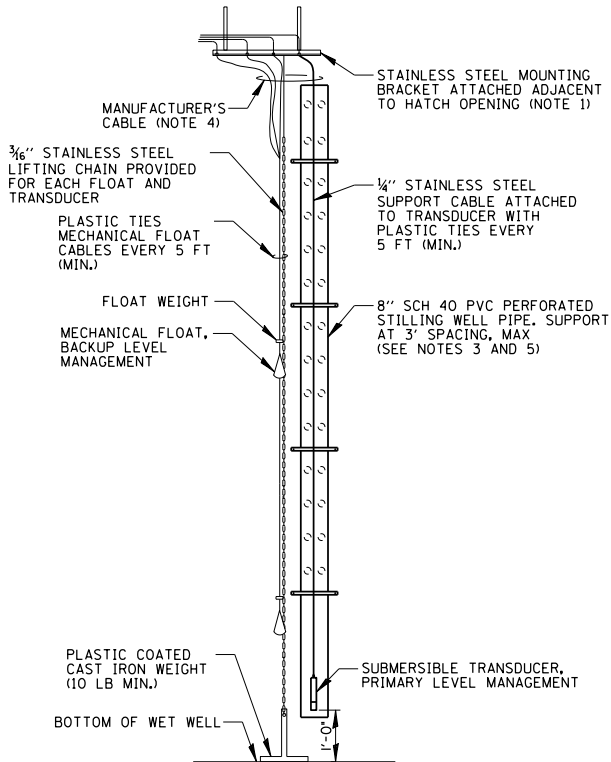


- NOTES:
- CONTRACTOR SHALL FURNISH AND INSTALL NEOPRENE LINER TO ISOLATE PIPE FROM PIPE SUPPORT.

PIPE SUPPORT DETAIL
N.T.S.



CONCRETE STRUCTURE PENETRATION DETAIL
N.T.S.



- NOTES:
- CONTRACTOR SHALL INSTALL SUBMERSIBLE TRANSDUCER/MECHANICAL FLOAT MOUNTING BRACKET IN A READILY ACCESSIBLE LOCATION ADJACENT TO THE PROPOSED ACCESS HATCH. OWNER/OPERATOR SHALL NOT BE REQUIRED TO USE SPECIAL TOOLS, OR HAVE TO ENTER THE STRUCTURE TO ACCESS SUBMERSIBLE TRANSDUCER/MECHANICAL FLOAT CABLES.
 - THE MECHANICAL FLOAT SYSTEM SHALL OPERATE AS A BACKUP LEVEL MANAGEMENT SYSTEM. A SUBMERSIBLE TRANSDUCER WITH A 0-35 FT RANGE SHALL OPERATE AS A PRIMARY LEVEL MANAGEMENT SYSTEM.
 - SUPPORT STILLING WELL PIPE WITH STAINLESS STEEL PIPE CLAMPS FASTENED TO WET WELL WITH 3/4'' STAINLESS STEEL THREADED RODS (EMBEDDED A MIN. OF 3'') AND HILTI-RE 500 EPOXY ADHESIVE. PIPE CLAMPS SHALL BE SPACED A MAXIMUM OF 3' APART.
 - STILLING WELL HOLES SHALL BE MIN 3/4'' HOLES SPACED 6'' LONGITUDINALLY AND STAGGERED AXIALLY. HOLES AT 90 DEG. APART AXIALLY
 - CONTRACTOR SHALL COORDINATE CABLE LENGTHS WITH MECHANICAL FLOAT AND SUBMERSIBLE TRANSDUCER MANUFACTURER. CABLES SHALL BE LONG ENOUGH TO TERMINATE WITHIN THE PUMP CABLE JUNCTION BOX, PLUS AN ADDITIONAL 10' OF CABLE COILED UP WITHIN THE WET WELL.
 - CONTRACTOR SHALL FURNISH AND INSTALL SPECIFIED NUMBER OF SUBMERSIBLE TRANSDUCERS AND MECHANICAL FLOATS AS SHOWN ON DRAWINGS.

LEVEL MANAGEMENT SYSTEM
N.T.S.

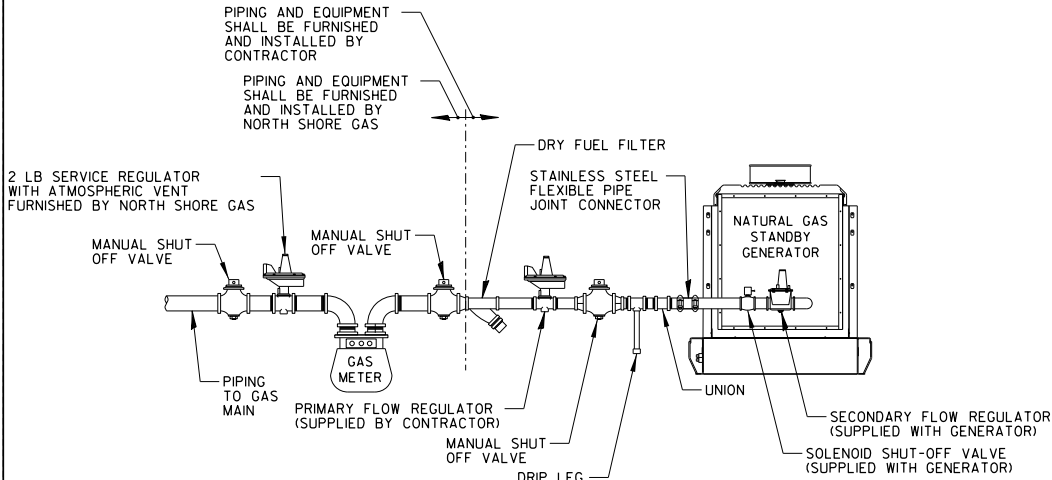
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	PLOT DATE = 7/31/2026	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

GENERATOR SCHEDULE

UNIT SIZE	CONNECTED LOAD	EXCITATION TYPE	ENCLOSURE	NOISE LEVEL	FULL LOAD FUEL CONSUMPTION	PRIMARY REGULATOR	GENERATOR PAD (L X W)
350 kW	NOTE 2	PMG	LEVEL 2	73 dBA @ 23 FEET	REFER TO MANUFACTURER	REFER TO MANUFACTURER	REFER TO MANUFACTURER

NOTES:

1. THE SPECIFIED GENERATOR IS SIZED TO SUPPORT THE PUMP STATION 10 KW MISCELLANEOUS LOAD AND (2) 140 HP HIGH FLOW PUMPS (VFD OR ATL).

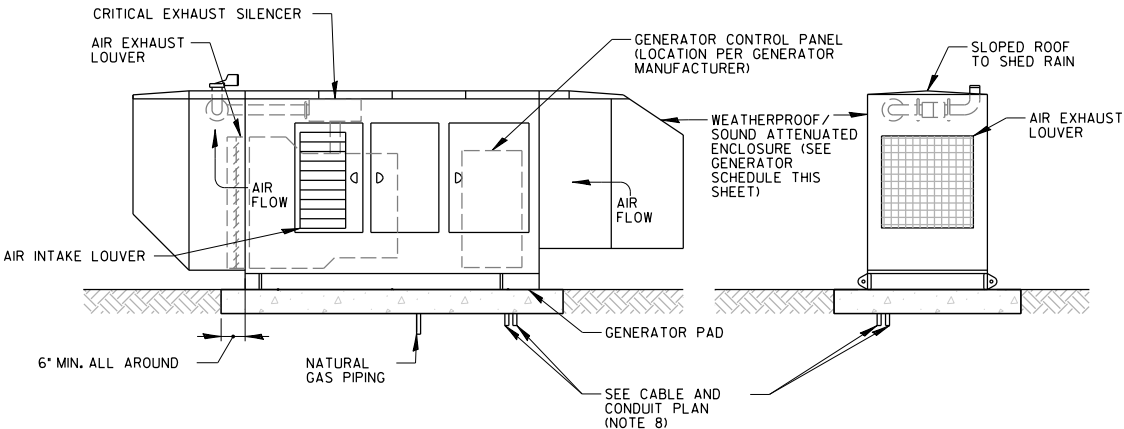


NOTES:

1. ALL NATURAL GAS FUEL PIPING REQUIRED FOR THE INSTALLATION OF THE WORK SHALL BE IN ACCORDANCE WITH APPLICABLE PROVISIONS OF NFPA 58.
2. ALL PIPING, TUBING, FITTING AND VALVES USED IN THE PIPING INSTALLATION SHALL BE SUITABLE FOR 125 PSIG WORKING PRESSURE.
3. CAST IRON PIPING AND FITTINGS ARE NOT PERMITTED.
4. FLEXIBLE CONNECTORS SHALL BE USED TO ISOLATE HARMFUL VIBRATIONS FROM THE PIPING INSTALLATION.
5. THE PIPING INSTALLATION SHALL BE TESTED AFTER ASSEMBLY AND PROVEN FREE FROM LEAKS. FLAME TESTING FOR LEAKS IS NOT PERMITTED.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL COORDINATION REQUIRED TO OBTAIN GAS SERVICE FROM NORTH SHORE GAS AND CONNECTION TO THE PROPOSED GAS MAIN INCLUDING ASSOCIATED METERING DEVICES, ADDITIONAL REGULATORS, FITTINGS, PIPING, ETC.
7. ALL ABOVE GRADE PIPING/FITTINGS/VALVES SHALL BE PRIMED AND PAINTED USING A RUST RESISTANT COATING AS DIRECTED BY VILLAGE. USE STAINLESS STEEL UNISTRUT STANDOFFS WITH STAINLESS STEEL HARDWARE AS NECESSARY. NO GAS PIPING SHALL BE EMBEDDED IN CONCRETE.
8. CONTRACTOR SHALL PERFORM A COMPLETE OPERATIONAL TEST OF ALL EQUIPMENT (ATS, GENERATOR, ETC.) IN THE PRESENCE OF THE VILLAGE.
9. CONTRACTOR SHALL COORDINATE GAS METER LOCATION AND SETBACK REQUIREMENTS WITH NORTH SHORE GAS. THE FINAL GAS METER LOCATION SHALL BE APPROVED BY NORTH SHORE GAS AND SHALL COMPLY WITH ALL NORTH SHORE GAS SPECIFICATIONS, CODES, AND STANDARD PRACTICES. ONCE APPROVED, THE EXACT PROPOSED METER LOCATION SHALL BE CLEARLY MARKED WITH STAKES.

NATURAL GAS PIPING DETAIL

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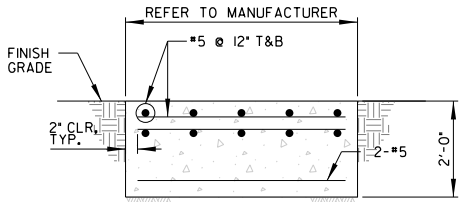


NOTES:

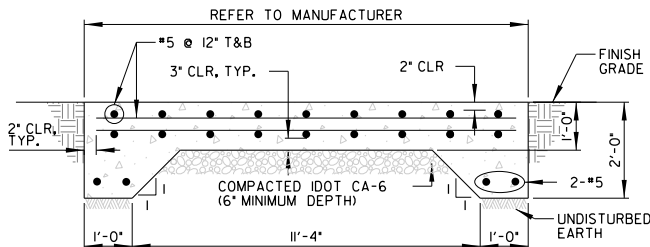
1. NATURAL GAS ENGINE GENERATOR SHALL BE FULLY WINTERIZED, PROVIDED WITH ALL ACCESSORIES REQUIRED FOR COLD WEATHER STARTING, RATED AS SHOWN IN GENERATOR SCHEDULE FOR CONTINUOUS STANDBY DUTY WHILE OPERATING AT AN AMBIENT TEMPERATURE RANGE BETWEEN -20°F AND 104°F. SEE SPECIFICATIONS FOR ADDITIONAL DETAILS.
2. ENCLOSURE SHALL HAVE LOCKABLE/HINGED ACCESS PANELS ALL AROUND, AS REQUIRED.
3. PROVIDE CLOSURE PLATES ALL AROUND UNIT FRAME/BASE TO PREVENT RODENT ENTRY.
4. DIMENSIONS (IF SHOWN) ARE MAXIMUM ANTICIPATED FOR STANDBY GENERATOR AND RELATED EQUIPMENT PAD. IF LARGER DIMENSIONS ARE REQUIRED, DUE TO THE EQUIPMENT OFFERED BY CONTRACTOR THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL COORDINATION AND CHANGES RESULTING IN NO ADDITIONAL COST TO THE OWNER. IF A SMALLER GENERATOR PAD IS PROPOSED BY THE CONTRACTOR, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL COORDINATION; AND THE PROPOSED DIMENSIONS SHALL BE SUBMITTED FOR REVIEW PRIOR TO CONSTRUCTION.
5. THE UNIT ENCLOSURE SHALL BE DESIGNED AS COMPACT AS PRACTICAL ALLOWING FOR ADEQUATE SPACE FOR MAINTENANCE WITHIN ENCLOSURE AND IN ACCORDANCE WITH LIMITING DIMENSIONS SHOWN ON THE DRAWINGS AND AS OTHERWISE REQUIRED BY LOCAL CODES. ENCLOSURE ACCESS SHALL ALLOW EASY ACCESS WITHOUT THE USE OF PORTABLE LIFTING EQUIPMENT.
6. SEE GENERATOR SCHEDULE FOR MAXIMUM AVERAGE NOISE LEVELS FOR STANDBY GENERATOR WHEN FULLY LOADED. GENERATOR MANUFACTURER SHALL PERFORM SOUND LEVEL MEASUREMENTS IN THE PRESENCE OF OWNER OR OWNER'S REPRESENTATIVE. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL WORK WITH THE GENERATOR MANUFACTURER, VILLAGE, AND OWNER'S REPRESENTATIVE.
7. CONTRACTOR SHALL PERFORM A COMPLETE OPERATIONAL TEST OF ALL EQUIPMENT (ATS, GENERATOR, ETC.) IN THE PRESENCE OF THE TOWN AND LCRBDC.
8. CONTRACTOR SHALL COORDINATE WITH MANUFACTURER'S DRAWINGS FOR ELECTRICAL STUB-UP AREA LOCATIONS.

NATURAL GAS STANDBY GENERATOR TYPICAL ARRANGEMENT

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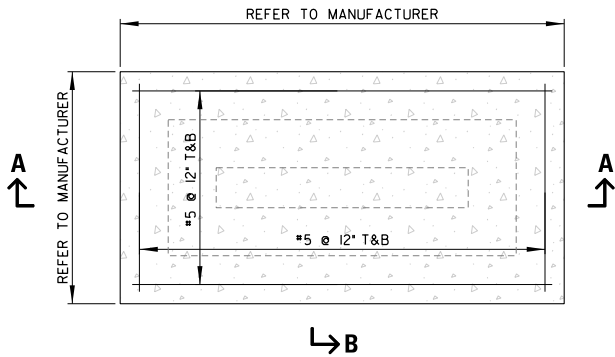


SECTION B-B



SECTION A-A

→ B



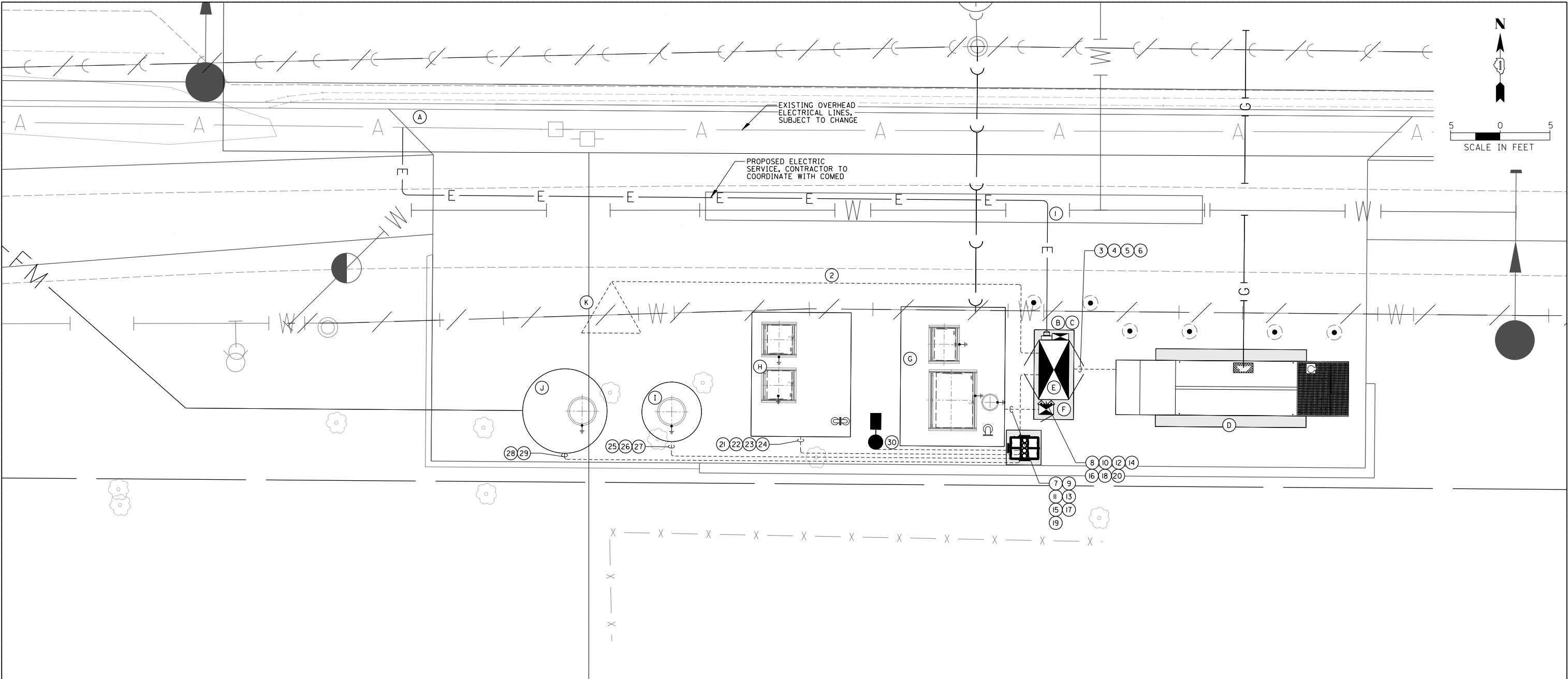
NOTES:

1. THIS DETAIL IS GENERIC AND NOT INTENDED TO SHOW ALL DETAILS OF WORK TO BE PERFORMED OR EQUIPMENT TO BE SUPPLIED. THE INTENT OF THIS DETAIL IS TO ILLUSTRATE THE CONCEPTUAL DESIGN AND LAYOUT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY PROPOSED EQUIPMENT LAYOUT PRIOR TO CONSTRUCTION.
2. NATURAL GAS STANDBY GENERATOR REINFORCED PCC EQUIPMENT PAD SHALL BE CONSTRUCTED WITH IDOT CLASS S1 CONCRETE.

NATURAL GAS STANDBY GENERATOR REINFORCED PCC EQUIPMENT PAD

N.T.S.

FILE NAME =	USER NAME = tod-rscoil	DESIGNED JPC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DEERFIELD ROAD RECONSTRUCTION GENERATOR DETAILS	F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 7/31/2026	DATE -	REVISED -			SCALE:	SHEET OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT	



MISC. IDENTIFIERS

MISCELLANEOUS IDENTIFIERS	
IDENTIFIER	DESCRIPTION
A	ELECTRIC SERVICE CONNECTION
B	ELECTRIC UTILITY METER
C	600A 480V/277V-3ø METERING TRANSFORMER CABINET WITH SERVICE DISCONNECT SWITCH
D	350 kW NATURAL GAS STANDBY GENERATOR
E	600A 480V/277V-3ø PUMP CONTROL PANEL
F	PUMP CABLE JUNCTION BOX
G	12'-0" X 8'-6" WET WELL
H	10'-6" X 8'-0" VALVE VAULT
I	5' FLOW METER VAULT
J	7' PIG LAUNCH VAULT
K	GROUND FIELD

CABLE AND CONDUIT SCHEDULE

IDENTIFIER	DESCRIPTION	FUNCTION	QUANTITY	CONDUIT	CABLE	LOCATION TO LOCATION
1	600A 277/480V-3Ø ELECTRIC SERVICE	POWER	2	3" RGS	4/C #350 MCM	COM ED TRANSFORMER TO METERING TRANSFORMER CABINET WITH SERVICE DISCONNECT SWITCH
2	AC SYSTEM GROUNDING ELECTRODE (NEC 250.66 (A))	GROUND	1	1" RGS	1/C #6	5/8" X 10' COPPER CLAD GROUND ROD TO PUMP CONTROL PANEL
3	NATURAL GAS STANDBY GENERATOR POWER	POWER	2	3" RGS	3/C #350 MCM, 1/C #350 MCM NEUTRAL, 1/C #1 GROUND (VERIFY MANUFACTURER'S RECOMMENDATION)	GENERATOR TO AUTOMATIC TRANSFER SWITCH (ATS)
4	NATURAL GAS STANDBY GENERATOR START CONTROL	CONTROL	1	1" RGS		GENERATOR TO AUTOMATIC TRANSFER SWITCH (ATS)
5	BATTERY CHARGER AND COOLANT HEATER	POWER	1	1" RGS	4/C #12, 2/C #12 GROUND	GENERATOR TO PANELBOARD (LP-1)
6	NATURAL GAS STANDBY GENERATOR SPARE	-	1	1" RGS		GENERATOR TO PUMP CONTROL PANEL
7	LOW FLOW PUMP #1 (P-1) POWER/CONTROL	P/C	1	2" RGS	NOTE 11 MANUFACTURER'S CABLE (NOTE 6)	P-1 TO PUMP CABLE JUNCTION BOX
8	LOW FLOW PUMP #1 (P-1) POWER/CONTROL	P/C	1	2" RGS	3/C #12, 1/C #14 GROUND	PUMP CABLE JUNCTION BOX TO PUMP CONTROL PANEL
9	LOW FLOW PUMP #1 (P-2) POWER/CONTROL	P/C	1	2" RGS	MANUFACTURER'S CABLE (NOTE 6)	P-2 TO PUMP CABLE JUNCTION BOX
10	LOW FLOW PUMP #1 (P-2) POWER/CONTROL	P/C	1	2" RGS	3/C #12, 1/C #14 GROUND	PUMP CABLE JUNCTION BOX TO PUMP CONTROL PANEL
11	HIGH FLOW PUMP #1 (P-3) POWER/CONTROL	P/C	1	2" RGS	MANUFACTURER'S CABLE (NOTE 6)	P-3 TO PUMP CABLE JUNCTION BOX
12	HIGH FLOW PUMP #1 (P-3) POWER/CONTROL	P/C	1	2" RGS	3/C #40, 1/C #6 GROUND	PUMP CABLE JUNCTION BOX TO PUMP CONTROL PANEL
13	HIGH FLOW PUMP #1 (P-4) POWER/CONTROL	P/C	1	2" RGS	MANUFACTURER'S CABLE (NOTE 6)	P-4 TO PUMP CABLE JUNCTION BOX
14	HIGH FLOW PUMP #1 (P-4) POWER/CONTROL	P/C	1	2" RGS	3/C #40, 1/C #6 GROUND	PUMP CABLE JUNCTION BOX TO PUMP CONTROL PANEL
15	WET WELL INSTRUMENTATION (1 SUBMERSIBLE TRANSDUCER, 5 MECHANICAL FLOATS)	CONTROL	1	2" RGS	TRANSDUCER - MANUFACTURER'S CABLE (NOTE 6) FLOAT - MANUFACTURER'S CABLE (NOTE 6)	WET WELL LEVEL MANAGEMENT SYSTEM TO PUMP CABLE JUNCTION BOX
16	WET WELL INSTRUMENTATION (1 SUBMERSIBLE TRANSDUCER, 5 MECHANICAL FLOATS)	CONTROL	1	2" RGS	TRANSDUCER - 4/C #22 FLOAT - 2/C #16 (EACH)	PUMP CABLE JUNCTION BOX TO PUMP CONTROL PANEL
17	WET WELL GROUND	GROUND	1	1" RGS	1/C #6 (NOTE 7)	WET WELL ACCESS HATCHES, FRAMES, AND GUIDE RAILS TO PUMP CABLE JUNCTION BOX
18	WET WELL GROUND	GROUND	1	1" RGS	1/C #6 (NOTE 7)	PUMP CABLE JUNCTION BOX TO PUMP CONTROL PANEL
19	WET WELL SPARE	-	1	2" RGS	NOTE 11	WET WELL TO PUMP CABLE JUNCTION BOX
20	WET WELL SPARE	-	1	2" RGS	NOTE 11	PUMP CABLE JUNCTION BOX TO PUMP CONTROL PANEL
21	VALVE VAULT INSTRUMENTATION (1 MECHANICAL FLOAT)	CONTROL	1	1" PVC	MANUFACTURER'S CABLE (NOTE 6)	VALVE VAULT FLOAT TO PUMP CONTROL PANEL
22	VALVE VAULT POWER (RECEPTACLE)	POWER	1	1" PVC	2/C #10, 1/C #10 GROUND	VALVE VAULT RECEPTACLE TO PANELBOARD (LP-1)
23	VALVE VAULT GROUND	GROUND	1	1" PVC	1/C #10 (NOTE 7)	VALVE VAULT HATCHES AND FRAMES TO PUMP CONTROL PANEL
24	VALVE VAULT SPARE	-	1	1" PVC	NOTE 11	VALVE VAULT TO PUMP CONTROL PANEL
25	FLOW METER POWER/CONTROL	P/C	1	1" PVC	MANUFACTURER'S CABLE (NOTE 6)	FLOW METER TO PUMP CONTROL PANEL
26	FLOW METER VAULT GROUND	GROUND	1	1" PVC	1/C #10 (NOTE 7)	FLOW METER VAULT FRAME TO PUMP CONTROL PANEL
27	FLOW METER VAULT SPARE	-	1	1" PVC	NOTE 11	FLOW METER VAULT TO PUMP CONTROL PANEL
28	PIG LAUNCH VAULT GROUND	GROUND	1	1" PVC	1/C #10 (NOTE 7)	PIG LAUNCH VAULT FRAME TO PUMP CONTROL PANEL
29	PIG LAUNCH VAULT SPARE	-	1	1" PVC	NOTE 11	PIG LAUNCH VAULT TO PUMP CONTROL PANEL
30	SITE LIGHT	POWER	1	1" PVC	2/C #10, 1/C #10 GROUND	SITE LIGHT TO PANELBOARD (LP-1)

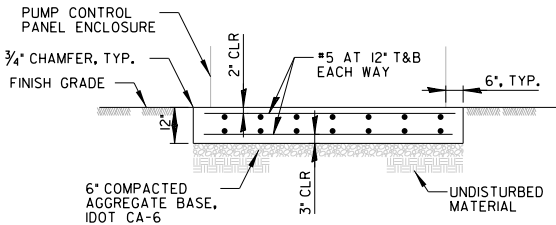
ELECTRICAL CABLE AND CONDUIT NOTES

- THIS PLAN ILLUSTRATES A CONCEPTUAL CABLE AND CONDUIT LAYOUT. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ELECTRICAL DEVICES, CONDUIT, CABLES AND CONTROLS AS REQUIRED FOR THE UNATTENDED AND AUTOMATIC OPERATION OF THE LIFT STATION.
- ALL CONDUIT AND FITTINGS SHALL BE RIGID GALVANIZED STEEL (RGS) (UNLESS OTHERWISE INDICATED). WHERE HDPE OR PVC IS REQUIRED, ALL BELOW GRADE CONDUIT AND FITTINGS SHALL BE SCH 40 EXCEPT UNDER ROADWAYS WHERE SCH 80 SHALL BE USED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL APPROPRIATE FITTINGS WHEN TRANSFERRING FROM HDPE OR PVC CONDUIT TO ABOVE GRADE RGS CONDUIT.
- ALL UNDERGROUND CABLES SHALL BE XLP TYPE USE, EXTRA ABRASION RESISTANCE, 600 VOLTS, INSTALLED IN CONDUIT A MINIMUM 30 INCHES BELOW FINISH GRADE. ALL CABLES SHALL BE TAGGED AT EACH TERMINATION POINT USING OIL AND WATERPROOF TAGS WITH INDELIBLE MARKINGS. SHORT CABLE LENGTHS (LESS THAN 8') WHERE THE ENTIRE CABLE IS VISIBLE MAY BE TAGGED AT JUST ONE END.
- DO NOT ROUTE ANY COMMUNICATION CABLES IN WIREWAYS WITH AC CABLES. ROUTE ALL COMMUNICATION CABLES AWAY FROM AC CABLES. WHERE AC CABLES MUST BE CROSSED, DO SO AT RIGHT ANGLES AND PROVIDE AT LEAST 1" SEPARATION.
- ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) AND LABELED.
- THE REQUIRED SIZE OF CONDUIT IS FUNCTION OF CABLE SIZE OF SELECTED EQUIPMENT. CONDUIT MAY BE LARGER THAN INDICATED BY THE SCHEDULE. CONTRACTOR SHALL COORDINATE.
- ALL ON SITE GROUNDING ELECTRODES SHALL BE CONNECTED TOGETHER TO FORM A GROUNDING ELECTRODE SYSTEM. EQUIPMENT GROUND CONDUCTORS SHALL BE IN ACCORDANCE WITH NEC ARTICLE 250.122 AND BONDED TO GROUNDING ELECTRODE SYSTEM.
- CONTRACTOR SHALL COORDINATE WITH OWNER'S SCADA SYSTEM INTEGRATOR AND SPECIFICATIONS TO PROVIDE INPUTS AND OUTPUTS AS REQUIRED TO INTERFACE WITH EXISTING OWNER'S SCADA SYSTEM.
- CONTRACTOR SHALL FURNISH AND INSTALL STAINLESS STEEL HANGERS AND/OR STANDOFFS FOR PROPOSED CABLE AND CONDUIT.
- CONTRACTOR SHALL CORE CONCRETE STRUCTURES AS NECESSARY TO INSTALL PROPOSED CABLE AND CONDUIT. PENETRATIONS THROUGH CONCRETE STRUCTURES SHALL BE SEALED WITH NON-SHRINK GROUT.
- SPARE CONDUIT SHALL BE CAPPED WATERTIGHT WITH FLEXIBLE SEALING COMPOUND, AND LOCATION RECORDED.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

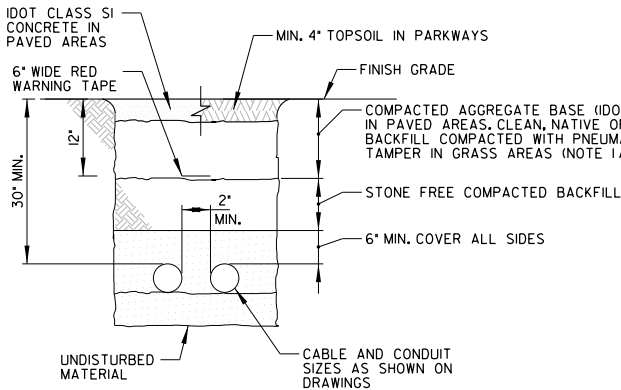
DEERFIELD ROAD RECONSTRUCTION LIFT STATION ELECTRICAL SITE PLAN		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		I257	I5-00038-07-WR	LAKE	1090	540
		CONTRACT NO. 6IK62				
SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT



- NOTES:
1. CONTRACTOR SHALL FURNISH AND INSTALL A 3/4" PREFORMED EXPANSION JOINT AT ALL JOINTS THAT MEET VERTICAL CONCRETE SURFACES.
 2. EQUIPMENT PAD SHALL BE CONSTRUCTED WITH IDOT CLASS SICONCRETE.

EQUIPMENT PAD DETAIL

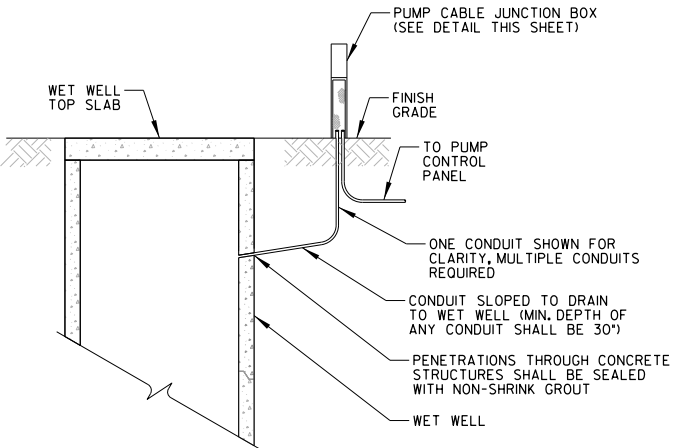
N.T.S.



- NOTES:
1. BACKFILL MATERIAL SHALL BE FREE OF BRICK, ROCK, OR ANY MATERIAL THAT COULD DAMAGE THE CONDUIT.
 2. BACKFILL MATERIAL FOR TRENCHES WHERE THE INNER EDGE OF THE TRENCH IS WITHIN 2" OF THE EDGE OF PAVEMENT, CURB, GUTTER, STABILIZED SHOULDER, OR SIDEWALK SHALL BE TRENCH BACKFILL IN ACCORDANCE WITH THE PROVISIONS OF SECTION 208 OF THE STANDARD SPECIFICATIONS, AS PREPARED BY IDOT.

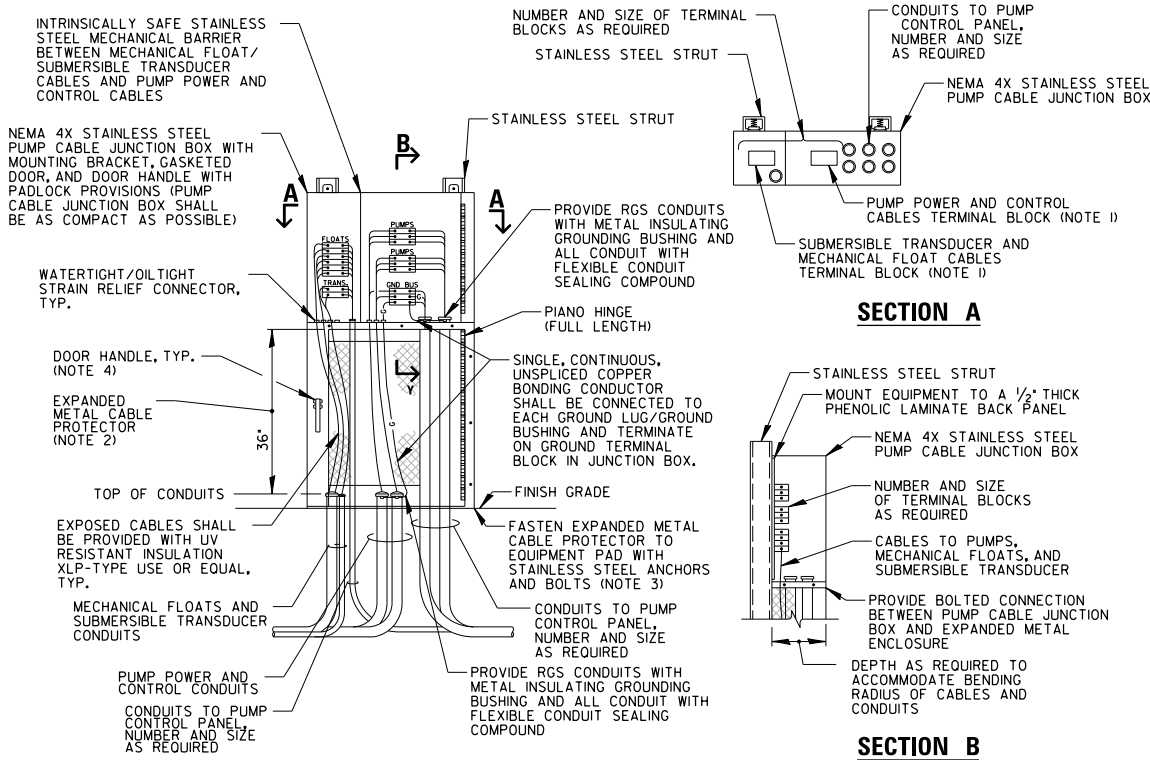
TYPICAL ELECTRICAL CONDUIT INSTALLATION

N.T.S.



TYPICAL SECTION VIEW THROUGH LIFT STATION

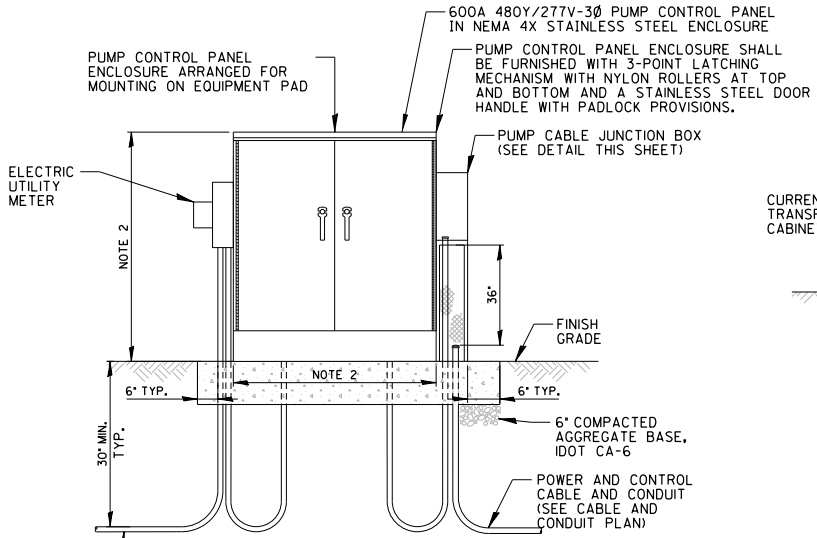
N.T.S.



- NOTES:
1. PROVIDE INTRINSICALLY SAFE STAINLESS STEEL MECHANICAL BARRIER TO SEPARATE POWER CABLES FROM INTRINSICALLY SAFE CABLES.
 2. EXPANDED METAL CABLE PROTECTOR SHALL BE 14 GAUGE TYPE 304 FLATTENED STAINLESS STEEL WITH A DIAMOND PATTERN, 75% OPEN AREA AND CLOSED (BOND) EDGE CONFIGURATION, FORMED TO MATCH DEPTH OF THE PUMP CABLE JUNCTION BOX (TOP ENCLOSURE).
 3. SEAL AROUND EXPANDED METAL CABLE PROTECTOR TO PREVENT BIRD/RODENT ENTRY.
 4. PUMP CABLE JUNCTION BOX (TOP ENCLOSURE) SHALL BE FURNISHED WITH 3-POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP AND BOTTOM. BOTH PUMP CABLE JUNCTION BOX AND EXPANDED METAL CABLE PROTECTOR SHALL BE PROVIDED WITH A STAINLESS STEEL DOOR HANDLE WITH PADLOCK PROVISIONS.
 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE REQUIRED SIZE AND NUMBER OF TERMINAL BLOCKS, CABLE GRIPS, CONDUITS, ETC. NECESSARY FOR PROPOSED DESIGN. THE ABOVE DETAIL IS SCHEMATIC IN NATURE AND DOES NOT DETAIL EXACT QUANTITIES AND SIZES OF PUMP POWER AND CONTROL CABLES AND CONDUITS.
 6. EQUIPMENT GROUND CONDUCTORS SHALL BE IN ACCORDANCE WITH NEC ARTICLE 250.122 AND BONDED TO PROPOSED GROUNDING ELECTRODE SYSTEM.
 7. CONDUITS SHALL NOT EXTEND MORE THAN 2" ABOVE EQUIPMENT PAD.

PUMP CABLE JUNCTION BOX DETAIL

N.T.S.



- NOTES:
1. SEE DRAWINGS FOR PUMP CONTROL PANEL ENCLOSURE AND PUMP CABLE JUNCTION BOX ORIENTATION.
 2. PUMP CONTROL PANEL ENCLOSURE SHALL BE AS COMPACT AS POSSIBLE. CONTRACTOR SHALL COORDINATE OVERALL SIZE AS REQUIRED.
 3. ALL LABELS SHALL BE PER NEC 110.21 AND 110.22.
 4. PROVIDE EACH CONDUIT WITH FLEXIBLE SEALING COMPOUND.

PUMP CONTROL PANEL ENCLOSURE DETAIL

N.T.S.

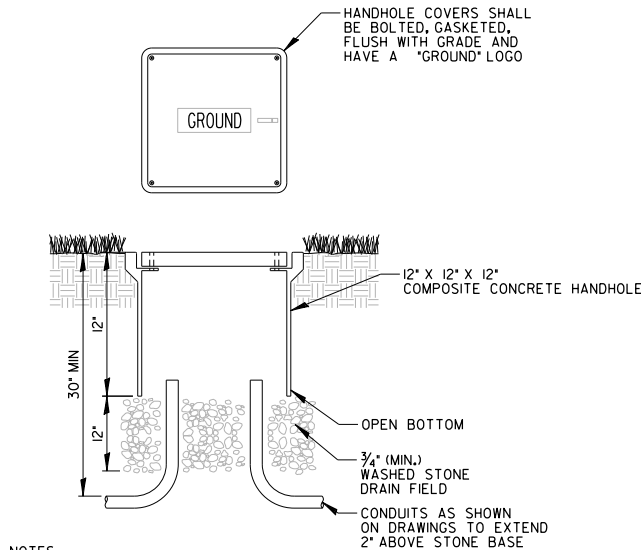
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DEERFIELD ROAD RECONSTRUCTION
LIFT STATION ELECTRICAL DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I257	I5-00038-07-WR	LAKE	1090	542
				CONTRACT NO. 6IK62
ILLINOIS FED. AID PROJECT				

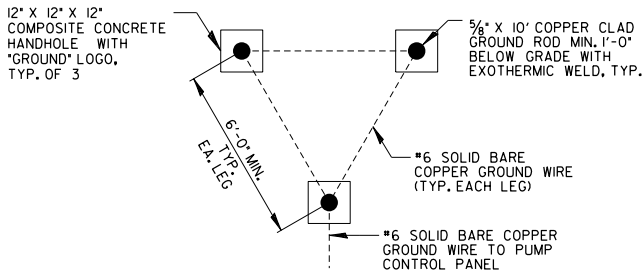


NOTES:

1. COMPOSITE CONCRETE HANDHOLE AND LID SHALL BE GREEN IN LANDSCAPE AREAS AND MATCH PAVEMENT IN PAVED AREAS. LOCATIONS FOR ALL HANDHOLES SHALL BE APPROVED BY OWNER PRIOR TO INSTALLATION.
2. BOX AND LID SHALL MEET/EXCEED ANSI TIER 15 LOADING REQUIREMENTS, AND BE TESTED IN ACCORDANCE WITH THE LATEST EDITION OF THE ANSI/SCTE 77 "SPECIFICATION FOR UNDERGROUND ENCLOSURE INTEGRITY", AND THE PROVISIONS OF PARAGRAPHS 5.2.3 AND 5.2.4 OF WESTERN UNDERGROUND COMMITTEE GUIDE 3.6.

COMPOSITE CONCRETE HANDHOLE

N.T.S.

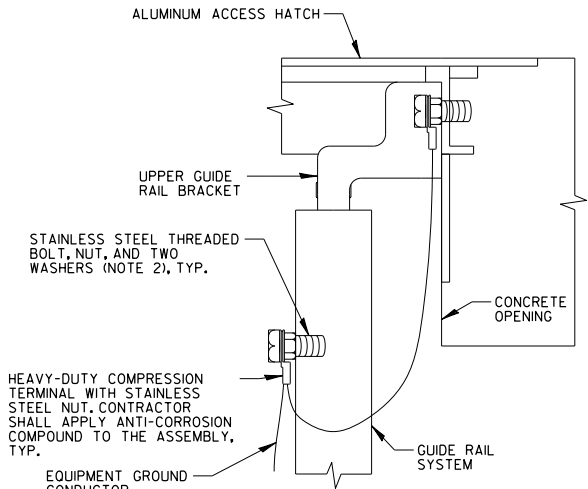


NOTES:

1. FURNISH AND INSTALL A GROUND FIELD AS SHOWN ON THE DRAWINGS. GROUNDING ELECTRODE CONDUCTOR SHALL BE INSTALLED 1' MINIMUM BELOW GROUND.
2. GROUND ALL EXPOSED METAL WORK (HATCHES, METAL CABINETS AND EQUIPMENT FRAMES, ETC.) CONNECTIONS TO HATCHES, AND OTHER METAL WORK SHALL BE MECHANICAL TYPE. CONNECTIONS TO GALVANIZED EQUIPMENT AND TO EQUIPMENT WHICH MAY BE REMOVED FOR MAINTENANCE SHALL BE MADE WITH BOLTED CLAMP TYPE CONNECTIONS OF SOLID COPPER, WELDED TO THE GROUNDING CONNECTOR.
3. UNLESS OTHERWISE INDICATED, THE MINIMUM SIZE OF SYSTEM GROUNDING CONDUCTOR SHALL BE #6 AWG.
4. EACH CONDUIT RUN SHALL BE GROUNDED TO THE COMMON GROUNDING BUS IN THE PANEL WHERE IT ORIGINATES. EQUIPMENT GROUND CONDUCTORS SHALL BE IN ACCORDANCE WITH NEC ARTICLE 250.122 AND BONDED TO PROPOSED GROUNDING ELECTRODE SYSTEM.
5. GROUND RODS SHALL BE COPPER CLAD, MINIMUM 5/8" DIAMETER X 10' LONG. CABLE-TO-CABLE AND CABLE-TO-GROUND ROD CONNECTIONS SHALL BE MADE BY THE FUSION WELDING PROCESS (EXOTHERMIC WELD).

GROUND FIELD DETAIL

N.T.S.

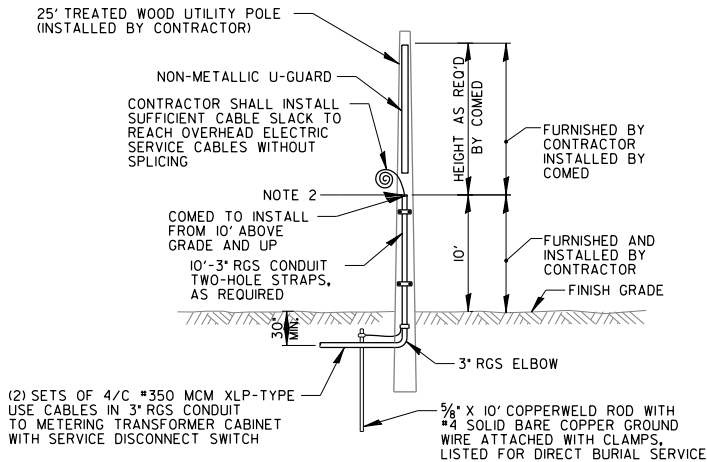


NOTES:

1. EQUIPMENT GROUNDING CONDUCTOR SHALL NOT BE CUT.
2. BOLT SHALL BE LOCATED SO THAT IT DOES NOT OBSTRUCT PUMP REMOVAL.

BONDING PUMP STATION HATCHES AND GUIDE RAILS

N.T.S.

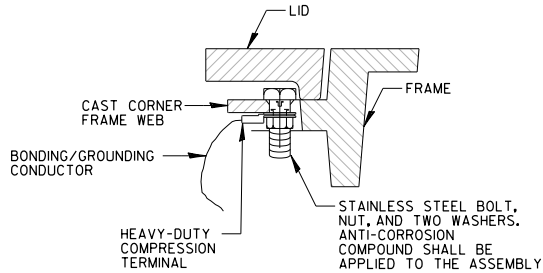


NOTES:

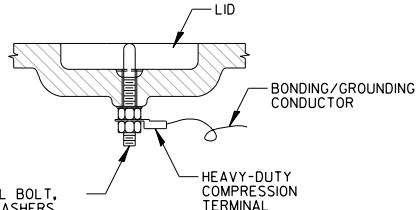
1. ALL WORK SHALL CONFORM TO COMED'S ELECTRIC STANDARDS.
2. CONTRACTOR SHALL PROVIDE CONDUIT BUSHING AND SEALING COMPOUND AT TOP OF RISER.

ELECTRIC SERVICE INSTALLATION DETAIL

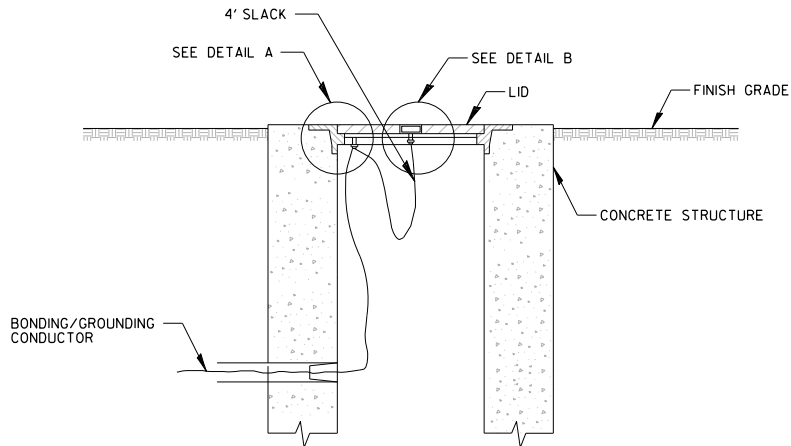
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DETAIL A



DETAIL B



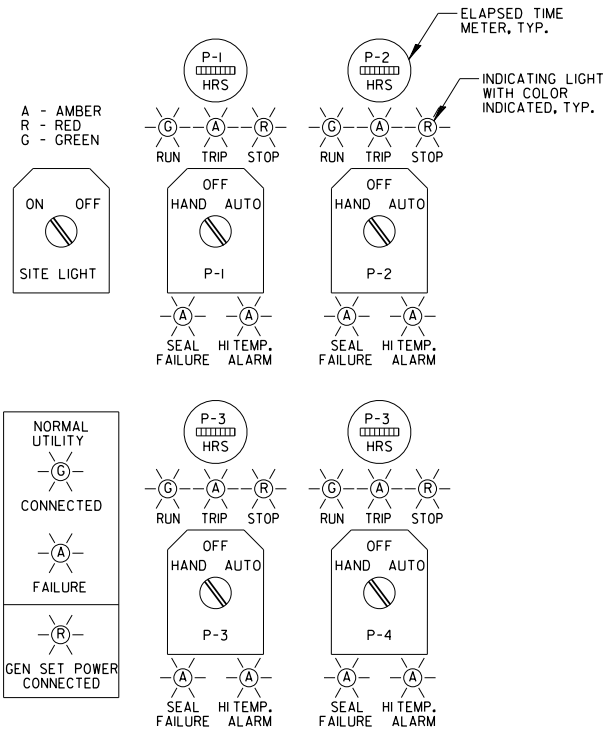
NOTES:

1. FRAME AND LID SHALL HAVE MINIMUM WEIGHT 140 LBS AND ABLE TO WITHSTAND AASHTO H-15 LOADING.
2. EQUIPMENT GROUNDING CONDUCTOR SHALL NOT BE CUT.
3. BONDING/GROUNDING CONDUCTOR SHALL BE XLP TYPE USE-600V SIZED TO MATCH EQUIPMENT GROUNDING CONDUCTOR.

BONDING TO STRUCTURE ACCESS COVER FRAME AND LID

N.T.S.

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		DRAWN GCE	REVISED -						I257	I5-00038-07-WR	LAKE	1090	543
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	PLOT DATE = 7/31/2026	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								
					SCALE:	SHEET	OF	SHEETS	STA.	TO STA.			

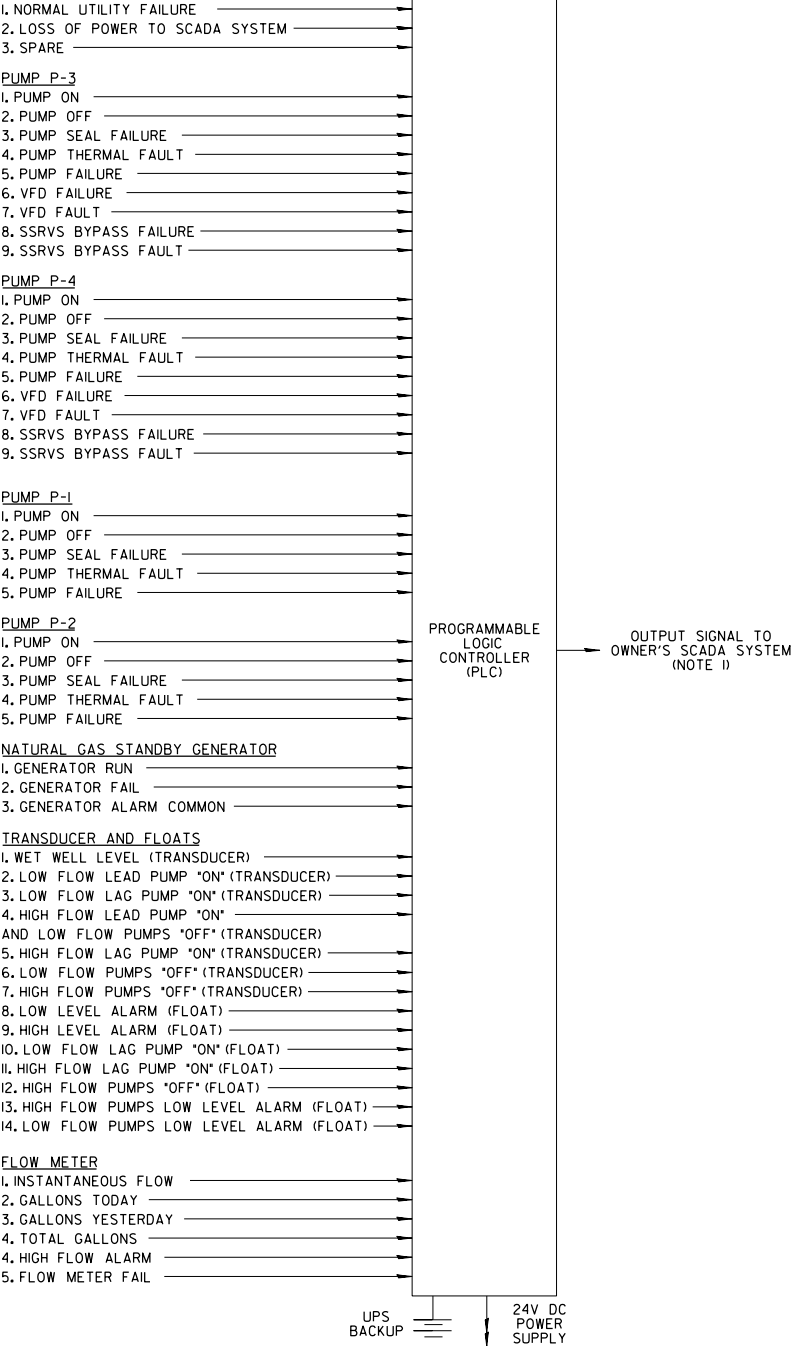


- NOTES:
- INDICATING LIGHTS SHALL BE LED WITH PUSH-TO-TEST FEATURE.
 - CONTRACTOR SHALL PROVIDE CONTROLS, INDICATING LIGHTS, ELAPSED TIME METERS, ETC. FOR THE SPECIFIED NUMBER OF PUMPS. THE ABOVE DETAIL IS SCHEMATIC AND DOES NOT DETAIL THE PROPOSED INSTALLATION.

TYPICAL CONTROL LAYOUT

N.T.S.

DATA INPUT SCHEDULE

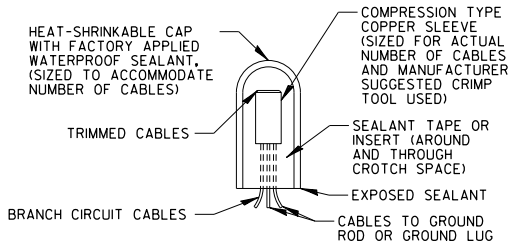


- NOTES:
- CONTRACTOR SHALL COORDINATE WITH OWNER'S SCADA SYSTEM INTEGRATOR AND SPECIFICATIONS TO PROVIDE INPUTS AND OUTPUTS AS REQUIRED TO INTERFACE WITH EXISTING OWNER'S SCADA SYSTEM.
 - THE PROPOSED PUMP CONTROL PANEL SHALL BE FURNISHED WITH A PLC, HUMAN MACHINE INTERFACE (HMI) AND DEDICATED SECURE CELLULAR MODEM SYSTEM FOR INTEGRATION BY THE OWNER.

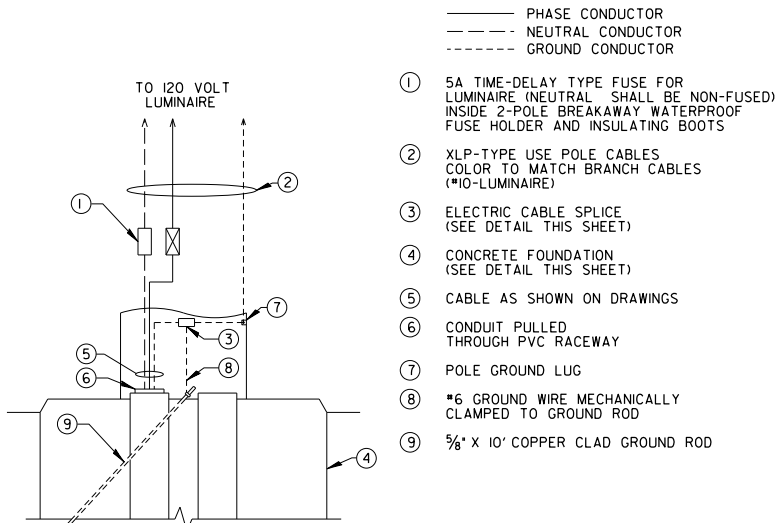
SCADA DATA INPUT ONE LINE DIAGRAM

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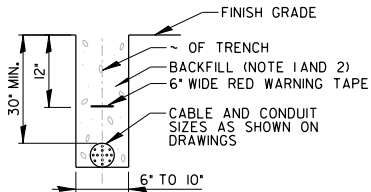
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N:\L\CDOT\190304.0003A\Mech\EDT_04.190304.0003A.SHT		DRAWN GCE	REVISED -			I257	I5-00038-07-WR	LAKE	1090	544
PLOT SCALE = N.T.S.		CHECKED JPC	REVISED -			CONTRACT NO. 6IK62				
Default	PLOT DATE = 7/31/2026	DATE -	REVISED -			SCALE:	SHEET	OF	SHEETS	STA. TO STA.



ELECTRIC CABLE SPICE DETAIL
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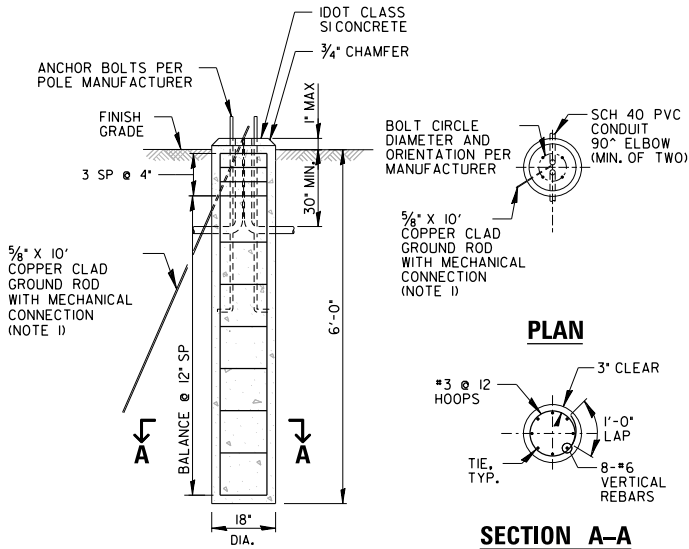


SITE LIGHT HANDHOLE WIRING DIAGRAM
N.T.S.



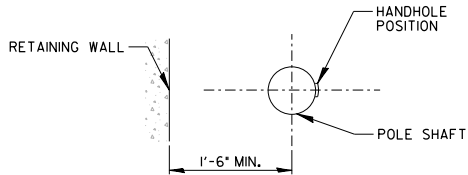
- NOTES:**
- BACKFILL MATERIAL SHALL BE FREE OF BRICK, ROCK, OR ANY MATERIAL THAT COULD DAMAGE THE CONDUIT.
 - BACKFILL MATERIAL FOR TRENCHES WHERE THE INNER EDGE OF THE TRENCH IS WITHIN 2' OF THE EDGE OF PAVEMENT, CURB, GUTTER, STABILIZED SHOULDER, OR SIDEWALK SHALL BE TRENCH BACKFILL IN ACCORDANCE WITH THE PROVISIONS OF SECTION 208 OF THE STANDARD SPECIFICATIONS, AS PREPARED BY IDOT.

TYPICAL ELECTRICAL CONDUIT INSTALLATION
N.T.S.

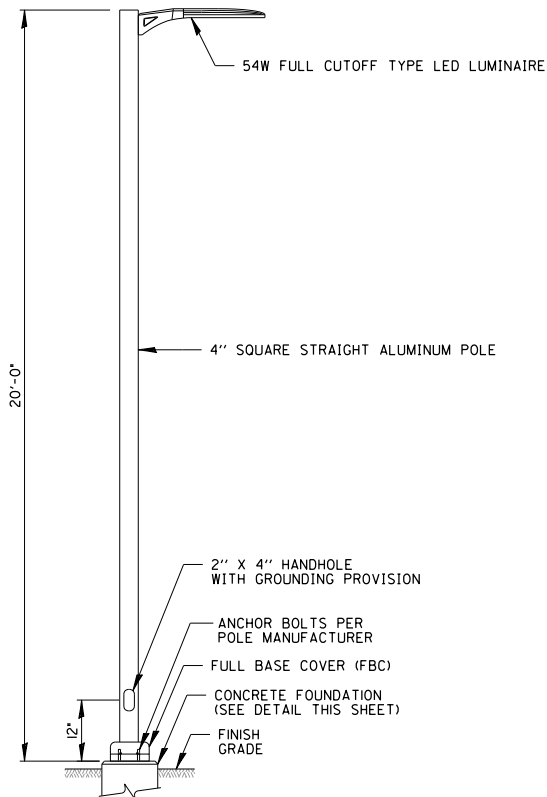


- NOTES:**
- GROUND ROD SHALL BE CAST INTO CONCRETE FOUNDATION WITH 8 FEET IN CONTACT WITH SOIL.
 - FOUNDATIONS SHALL BE VIBRATED IN ACCORDANCE WITH IDOT STANDARD PRACTICES.

SITE LIGHT CONCRETE FOUNDATION DETAIL
N.T.S.



POSITION OF SITE LIGHT HANDHOLE DETAIL
N.T.S.



SITE LIGHT DETAIL
N.T.S.

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	PLOT DATE = 7/31/2026	DATE -	REVISED -			ILLINOIS FED. AID PROJECT								

SANITARY SEWER NOTES

1. ALL SANITARY SEWER SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND CONSTRUCTION DETAILS AND ORDINANCES OF LAKE COUNTY PUBLIC WORKS (LCPW), ILLINOIS RECOMMENDED STANDARDS FOR SEWAGE WORKS, LATEST EDITION AND THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN ILLINOIS, LATEST EDITION, AND THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION IN ILLINOIS, ADOPTED JANUARY 1, 2022; THE SPECIAL PROVISIONS ADOPTED JAN. 1, 2026.
2. CONTRACTOR SHALL NOTIFY LCPW AT LEAST TWO (2) WORKING DAYS (48 HOURS) PRIOR TO THE START OF SANITARY SEWER CONSTRUCTION.
3. LCPW SHALL BE GRANTED ACCESS TO ALL PARTS OF THE CONSTRUCTION SITE AND SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND/OR REJECT ALL SANITARY SEWER AND SANITARY SERVICE IMPROVEMENTS.
4. ALL SANITARY SEWER SHALL BE INSPECTED AND APPROVED BY LCPW PRIOR TO BACKFILL.
5. UNLESS OTHERWISE SHOWN ON THE DRAWINGS, ALL SANITARY SEWERS SHALL BE CONSTRUCTED OF PVC PIPE WITH PUSH-ON JOINTS AND GASKETS. THE FOLLOWING PIPE CLASSIFICATIONS SHALL BE USED FOR THE VARIOUS PIPE SIZES AND DEPTHS:

A. FOR DEPTHS UP TO FOURTEEN (14'-0") FEET, USE PVC SDR 26 (MIN.) CONFORMING TO ASTM D3034 WITH GASKETED JOINTS CONFORMING TO ASTM D 3212.

B. FOR DEPTHS UP TO TWENTY (20'-0") FEET, USE PVC SDR 21 (MIN.) CONFORMING TO ASTM 2241 WITH GASKETED JOINTS CONFORMING TO ASTM D 3139.

C. FOR DEPTHS UP TO TWENTY-FIVE (25'-0") FEET, USE PVC DR 18 (MIN.) CONFORMING TO AWWA C900 WITH GASKETED JOINTS CONFORMING TO ASTM D 3139.
6. ALL SANITARY SERVICE CONNECTIONS TO NEW MAINLINE SEWER SHALL BE MADE WITH PRECAST WYES OR TEES MANUFACTURED SPECIFICALLY FOR THAT PURPOSE. SANITARY SEWER RISER AND SERVICE MATERIAL SHALL BE SAME AS MAINLINE SEWER. PIPE AND FITTINGS SHALL BE A MINIMUM OF SDR 26.
7. ALL SANITARY LATERALS INSTALLED BY OPEN CUT CONSTRUCTION SHALL INCLUDE A CONTINUOUS, INSULATED, 12-GAUGE COPPER WIRE SUITABLE FOR DIRECT BURIAL SHALL BE TAPED ON TOP OF ALL SERVICE LATERALS, TO PROVIDE FOR LOCATING FOLLOWING CONSTRUCTION. A MECHANICALLY SECURE OR SOLDERED CONNECTION SHALL BE PROVIDED FOR ALL WIRE SPLICES. WHERE CONSTRUCTION IS BY DIRECTIONAL DRILLING OR SIMILAR TRENCHLESS TECHNOLOGY THE TRACER WIRE SHALL BE 3/16" 7X19 PVC COATED STAINLESS STEEL AIRCRAFT CABLE WITH MINIMUM BREAKING STRENGTH OF 3,700 LBS. BEFORE APPROVAL OF ANY SANITARY SERVICES, AND BEFORE ACCEPTANCE AND FINAL APPROVAL OF ANY SANITARY MAIN, THERE WILL BE A LCPW MONITORED TRACER WIRE CONTINUITY TEST PERFORMED BY THE CONTRACTOR TO CONFIRM THAT A SIGNAL CAN BE OBSERVED THE ENTIRE LENGTH OF THE TRACER WIRE. (SEE APPLICABLE DETAILS FOR TRACER WIRE ACCESS AND TERMINATIONS)
8. SANITARY SERVICES SHALL BE LAID TO A MINIMUM GRADE OF 1.00%. THE END OF EACH SERVICE SHALL BE SEALED WITH A MANUFACTURER'S WATERTIGHT PLUG. SANITARY SERVICE STUBS SHALL BE MARKED WITH A 4"x4" POST THAT EXTENDS A MINIMUM OF 3 FEET INTO THE GROUND AND 4 FEET ABOVE FINISH GRADE WITH THE TOP 12-INCHES PAINTED RED.
9. SEWER SERVICE RISER SHALL BE USED WHEN MAINLINE SEWER EXCEEDS 12- FEET IN DEPTH.
10. A CURRENT COLOR VIDEO RECORDING AND A TYPE WRITTEN TRANSCRIPT OF THE INTERNAL INSPECTION OF THE NEWLY CONSTRUCTED SANITARY SEWER SYSTEM SHALL BE SUBMITTED TO LCPW AND THE MUNICIPALITY AS APPLICABLE. THIS WORK SHALL INCLUDE THE ROTATION OF THE LENS TO LOOK UP/AT EACH SERVICE.
11. SEWER TESTING AND ACCEPTANCE: ALL NEW SEWERS SHALL BE CLEANED AND TESTED FOR LEAKAGE AND DEFLECTION IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION IN ILLINOIS. ALL SEWER PIPING SHALL BE TESTED FOR LEAKAGE BY MEANS OF A LOW PRESSURE AIR TEST. ALL PVC SEWER PIPING SHALL BE TESTED FOR DEFLECTION BY MEANS OF THE 5% DEFLECTION TEST IN ACCORDANCE WITH ASTM D3034. DEFLECTION TESTING SHALL NOT BE PERFORMED SOONER THAN 30 DAYS AFTER INSTALLATION IS COMPLETE. ALL NEW SEWERS SHALL BE TV INSPECTED.
12. SANITARY SEWER MANHOLES SHALL BE OF THE PRECAST CONCRETE TYPE AND SHALL COMPLY WITH ASTM C-478 (SEE DETAIL). MANHOLES SHALL BE TESTED BEFORE THE RING AND COVER AND GRADE ADJUSTMENT RINGS ARE INSTALLED, AND AFTER BACKFILL AND COMPACTION IS COMPLETE. VACUUM TESTING OF MANHOLES SHALL BE PERFORMED IN ACCORDANCE WITH ASTM C1244 OR ASTM C969.
13. AN ACCEPTABLE INFLATABLE SEWER PRESSURE PLUG SHALL BE INSTALLED IN THE DOWNSTREAM CONNECTION MANHOLE ON THE NEW PIPE. THE SEWER PLUG SHALL HAVE A GAUGE PLACED JUST UNDER THE MANHOLE RIM FOR VISUAL INSPECTION OF PLUG INFLATION WITHOUT REQUIRING MANHOLE ACCESS.
14. WHEREVER A SEWER CROSSES UNDER A WATERMAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY SEWERS AND WATERMAINS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED ABOVE CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATERMAIN, THE SEWER SHALL BE CONSTRUCTED TO WATERMAIN STANDARDS.

16. CONTRACTOR TO VERIFY RIM AND INVERT ELEVATIONS. RIM ELEVATIONS FOR MANHOLES AND VAULTS SHALL BE ADJUSTED TO MEET FINAL GRADE. THESE ADJUSTMENTS ARE TO BE MADE BY THE CONTRACTOR AND ANY ASSOCIATED COSTS FOR THESE ADJUSTMENTS ARE TO BE CONSIDERED INCLUDED IN THE COST OF THE ITEMS FOR WHICH THEY PERTAIN. THESE ADJUSTMENTS TO FINISHED GRADE WILL NOT ALLEVIATE THE CONTRACTOR FROM ANY ADDITIONAL ADJUSTMENTS AS MAY BE REQUIRED BY THE OWNER OR VILLAGE UPON FINAL INSPECTION OF THE PROJECT. (FINAL GRADES AS MAY BE DETERMINED BY THE OWNER OR VILLAGE AT THE TIME OF FINAL INSPECTION MAY VARY FROM THOSE SHOWN ON THE PLANS.)
17. ALL SEWER PIPE BETWEEN MANHOLES SHALL BE OF THE SAME TYPE AND CLASSIFICATION.
18. ABANDONMENT OF SEWERS AND MANHOLES:

A. THE CONTRACTOR SHALL INSPECT ALL SEWERS AND MANHOLES IDENTIFIED TO BE ABANDONED IN-PLACE TO DETERMINE THE LOCATION OF ALL ACTIVE CONNECTING SEWERS OR HOUSE SERVICE CONNECTIONS. ALL ACTIVE SEWERS AND HOUSE SERVICE CONNECTIONS SHALL BE RECONNECTED TO THE NEW SEWER BEFORE EXISTING SEWERS AND MANHOLES ARE ABANDONED.

B. THE ENDS OF ALL SEWERS ABANDONED-IN-PLACE SHALL BE PLUGGED SOLID WITH A 3-FOOT LONG PLUG OF BEDDING CONCRETE BY THE CONTRACTOR.

C. MANHOLES THAT ARE DEEMED AS ACCESSIBLE TO VEHICLES AND EQUIPMENT SHALL BE ABANDONED AS FOLLOWS:

I. MANHOLES TO BE ABANDONED-IN-PLACE AND LOCATED IN CONCRETE OR ASPHALT PAVEMENT OR SIDEWALKS SHALL BE FILLED WITH SAND (IDOT FA-6) WITH FRAMES AND LIDS LEFT IN PLACE.

II. MANHOLES ABANDONED IN ALL OTHER AREAS, UNLESS SPECIFIED OTHERWISE, SHALL BE REMOVED TO A DEPTH OF 3 FEET BELOW GRADE OR TO THE SEWER WHICHEVER IS HIGHER. THE PORTION OF THE MANHOLE BELOW 3 FEET SHALL BE FILLED WITH SAND (IDOT FA-6).

D. MANHOLES THAT ARE DEEMED INACCESSIBLE BY VEHICLES AS IDENTIFIED ON THE DRAWINGS SHALL BE ABANDONED IN PLACE WITH THE LIDS WELDED SECURELY TO THE MANHOLE FRAME.
- SANITARY SEWER RECORD DRAWINGS
1. DRAWINGS MUST BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER OR PROFESSIONAL LAND SURVEYOR LICENSED IN THE STATE OF ILLINOIS. DRAWINGS SHALL BE CREATED USING CAD, APPROVED RECORD DRAWING FILES SHALL BE SUBMITTED IN EITHER ARCGIS (PREFERRED), MICROSTATION, OR AUTOCAD FORMAT WITH ONE PAPER COPY. UNDER EITHER CIRCUMSTANCE, AND ADOBE PDF OF THE RECORD DOCUMENTS SHALL BE INCLUDED.

2. SUBMITTED DRAWINGS SHALL BE NO SMALLER THAN 11"X17" OR LARGER THAN 24"X36". THE SCALE SHALL BE 1"=50' OR GREATER.

3. STATE PLANE COORDINATES, EASTERN ZONE, NAD 83 NSRS2007, WITH MINIMUM SUB FOOT ACCURACY. VERTICAL DATUM SHALL BE NAVD88.

4. THE DRAWINGS SHALL INCLUDE ANY AND ALL APPROVED FIELD CHANGES.

5. ALL STRUCTURES (MANHOLES, VALVE VAULTS, VALVE BOXES, HYDRANTS, B-BOXES) SHALL HAVE GPS COORDINATES INCLUDING NORTHING, EASTING, AND VERTICAL ELEVATION.

6. ALL MANHOLES SHALL BE NUMBERED WITH RIM AND INVERT ELEVATIONS.

7. ALL PIPES SHALL INCLUDE LINEAL FOOTAGE BETWEEN CENTER OF MANHOLES, DIAMETER OF PIPE, MATERIAL TYPE, AND RECORD SLOPE.

8. ALL SEWER SERVICES SHALL BE IDENTIFIED BY STATIONING FROM THE NEAREST DOWNSTREAM MANHOLE AND THE END OF THE SERVICE SHALL HAVE GPS COORDINATES (NORTHING AND EASTING). INFORMATION REQUIRED INCLUDES LINEAL FOOTAGE OF LATERAL AND HEIGHT OF RISER.
- SANITARY SEWER PAY ITEMS
- | CODE NUMBER | ITEM | UNIT | LCPW QUANTITY | RIVERWOODS QUANTITY | TOTAL QUANTITY |
|-------------|---|-------|---------------|---------------------|----------------|
| 20800150 | TRENCH BACKFILL | CU YD | 19,075 | 640 | 19,715 |
| 60500040 | REMOVING MANHOLES | EACH | 17 | 4 | 21 |
| X0323577 | SANITARY SEWER TELEVISION INSPECTION, VIDEOTAPING AND RECORDING | FOOT | 11,420 | 435 | 11,855 |
| X5509910 | ABANDON AND FILL EXISTING SANITARY MANHOLE | EACH | 22 | 0 | 22 |
| X5510306 | SANITARY SEWER REMOVAL 6" | FOOT | 520 | 20 | 540 |
| X5510308 | SANITARY SEWER REMOVAL 8" | FOOT | 45 | 270 | 315 |
| X5510310 | SANITARY SEWER REMOVAL 10" | FOOT | 0 | 30 | 30 |
| X5510312 | SANITARY SEWER REMOVAL 12" | FOOT | 15 | 0 | 15 |
| X5631212 | CONNECTION TO EXISTING FORCE MAIN 12" | EACH | 1 | 0 | 1 |
| X6022312 | DROP SANITARY MANHOLES, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID | EACH | 8 | 0 | 8 |
| X6022810 | MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID | EACH | 25 | 6 | 31 |
| XX001386 | SANITARY SEWER, PVC, 8" | FOOT | 45 | 385 | 430 |
| XX001464 | SANITARY SEWER, PVC, 6" | FOOT | 760 | 20 | 780 |
| XX001465 | SANITARY SEWER, PVC, 10" | FOOT | 0 | 30 | 30 |
| XX001466 | SANITARY SEWER, PVC, 12" | FOOT | 265 | 0 | 265 |
| XX001467 | SANITARY SEWER, PVC, 15" | FOOT | 10,350 | 0 | 10,350 |
| XX001470 | SANITARY SERVICE CONNECTION | EACH | 25 | 1 | 26 |
| XX004360 | SANITARY SEWER BYPASS PUMPING | L SUM | 0.95 | 0.05 | 1 |
| XX006088 | GATE VALVE AND BOX 12" | EACH | 1 | 0 | 1 |
| XX0327512 | SANITARY FORCE MAIN, 4" | FOOT | 0 | 30 | 30 |
| XX0326747 | SANITARY FORCE MAIN, 6" | FOOT | 0 | 15 | 15 |
| * | SANITARY FORCE MAIN, 12" | FOOT | 15 | 0 | 15 |
| XX009528 | ABANDON EXISTING SANITARY SEWER, FILL WITH CLSM | FOOT | 9,975 | 125 | 10,100 |
| * | SANITARY SEWER REMOVAL, 12" (SPECIAL) | FOOT | 300 | 0 | 300 |
| XX006052 | SANITARY SEWER REMOVAL, 15" (SPECIAL) | FOOT | 20 | 0 | 20 |
- FILE NAME = N:\LCDOT\190304.0003A\Mech\UNOT.01.190304.0003A.SHT

USER NAME = tod-riscoll

DESIGNED JPC

REVISED -

Default

PLOT SCALE = N.T.S.

CHECKED JPC

REVISED -

PLOT DATE = 7/31/2026

DATE -

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DEERFIELD ROAD RECONSTRUCTION
SANITARY SEWER GENERAL NOTES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.

I257 I5-00038-07-WR LAKE I090 546

ILLINOIS FED. AID PROJECT CONTRACT NO. 6IK62

SANITARY SEWER SCHEDULE									
LCPW									
PIPE NO.	FROM STRUCTURE	TO STRUCTURE	LENGTH (FT)	DIA (IN)	MATERIAL	SLOPE (%)	DOWNSTREAM INVERT	UPSTREAM INVERT	TBF (CY)
P1	42RA15A	42RA16A	159	15	PVC	0.67	631.77	632.84	255
P2	42RA16A	42RA17A	129	15	PVC	0.41	632.84	633.37	193
P3	42RA17A	42RA18A	205	15	PVC	0.35	633.37	634.08	287
P4	42RA18A	42RA19A	353	15	PVC	0.25	634.08	634.95	457
P5	42RA19A	42RA20A	339	15	PVC	0.28	634.95	635.91	404
P6	42RA20A	42RA23A	409	15	PVC	0.28	635.91	637.07	361
P7	42RA23A	42RA24A	387	15	PVC	0.21	637.07	637.88	302
P8	42RB02A	42RB02F1A	292	15	PVC	0.17	631.78	632.28	538
P9	42RB02F1A	42RB04A	519	15	PVC	0.29	632.28	633.76	1134
P10	42RB04A	42RB05A	386	15	PVC	0.30	633.76	634.93	831
P11	42RB05A	42RB07A	349	15	PVC	0.26	634.93	635.85	608
P12	42RB07A	42RB08A	400	15	PVC	0.20	635.85	636.66	600
P13	42RB08A	42RB09A	204	15	PVC	0.24	636.66	637.14	292
P14	42RB09A	42RB11A	429	15	PVC	0.32	637.14	638.50	556
P15	42RB11A	42RB13A	529	15	PVC	0.29	638.50	640.03	666
P16	42RB13A	42RB14A	402	15	PVC	0.27	640.03	641.10	658
P17	42RB14A	42RB15A	146	15	PVC	0.27	641.10	641.49	285
P18	42RB15A	42RB17A	435	15	PVC	0.27	641.49	642.65	951
P19	42RB17A	42RB18A	200	15	PVC	0.27	642.65	643.19	472
P20	42RB18A	42RB19A	416	15	PVC	0.27	643.19	644.30	1167
P21	42RB19A	42RB20A	507	15	PVC	0.27	644.30	645.65	1455
P22	42RB20A	42RB22A	294	15	PVC	0.27	645.65	646.43	844
P23	42RB22A	42RB23A	393	15	PVC	0.27	646.43	647.48	860
P24	42RB23A	42RB24A	409	15	PVC	0.81	647.48	650.80	585
P25	42RB24A	42RB25A	311	15	PVC	0.81	650.80	653.32	317
P26	42RB25A	42RB27A	487	15	PVC	2.18	653.32	663.94	513
P27	42RB27A	42RB28A	415	15	PVC	0.46	663.94	665.84	637
P28	42RB31A	42RB39A	264	12	PVC	0.53	665.84	667.23	531
P29	42RB02	42RB02A	8	15	PVC	0.87	631.71	631.78	15
P30	42RB28A	42RB29A	211	15	PVC	0.17	665.84	666.19	418
P31	42RB29A	42RB30A	277	15	PVC	0.30	666.19	667.02	501
P32	42RB30A	42RB31A	347	15	PVC	0.13	667.02	667.46	592
RIVERWOODS									
PIPE NO.	FROM STRUCTURE	TO STRUCTURE	LENGTH (FT)	DIA (IN)	MATERIAL	SLOPE (%)	DOWNSTREAM INVERT	UPSTREAM INVERT	TBF (CY)
P33	(EX) 5969	5880A	70	8	PVC	1.00	636.30	637.00	58
P34	42RB23A	155006A	70	8	PVC	1.00	649.30	650.00	94
P35	42RB25A	34360A	64	8	PVC	0.41	653.32	653.58	61
P36	42RA19B	42RA19A	79	8	PVC	2.00	634.95	636.53	137
P37	42RA19C	42RA19B	50	8	PVC	2.00	636.53	637.53	125
P38	42RB02F1A	42RD01A	41	8	PVC	2.00	639.21	640.03	98

SANITARY STRUCTURE SCHEDULE								
LCPW								
STRUCTURE NO.	STRUCTURE TYPE	STATION	OFFSET	RIM	INV (N)	INV (S)	INV (E)	INV (W)
42RA15A	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	99+68.73	39.28' RT	644.28	-	631.77	-	-
42RA16A	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	101+26.44	25.37' RT	644.38	-	-	632.84	632.84
42RA17A	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	102+55.00	24.52' RT	644.93	635.80	-	633.37	633.37
42RA18A	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	104+58.53	22.38' RT	644.15	-	-	634.08	634.08
42RA19A	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	108+12.73	18.92' RT	645.41	634.95	-	634.95	634.95
42RA20A	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	111+51.60	17.16' RT	644.62	637.71	-	635.91	635.91
42RA23A	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	115+60.47	16.95' RT	643.99	637.78	-	637.07	637.07
42RA24A	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	119+47.72	14.73' RT	645.49	-	-	637.88	637.88
42RB02A	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	130+27.43	10.34' RT	644.45	-	631.78	631.78	-
42RB02F1A	DROP SANITARY MANHOLES, 4' DIAMETER, WITH TYPE 1 FRAME, CLOSED LID	133+19.23	10.18' RT	646.59	-	640.03	632.28	632.28
42RB04A	DROP SANITARY MANHOLES, 4' DIAMETER, WITH TYPE 1 FRAME, CLOSED LID	138+37.96	9.52' RT	650.45	642.34	-	633.76	633.76
42RB05A	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	142+23.90	9.52' RT	648.69	-	-	634.93	634.93
42RB07A	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	145+73.38	9.65' RT	647.73	-	-	635.85	635.85
42RB08A	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	149+73.35	10.89' RT	647.85	-	-	636.66	636.66
42RB09A	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	151+76.89	11.55' RT	648.00	637.49	-	637.14	637.14
42RB11A	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	156+46.13	11.98' RT	648.03	638.50	-	638.50	638.50
42RB13A	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	161+74.68	11.60' RT	650.73	-	-	640.03	640.03
42RB14A	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	165+76.58	11.52' RT	654.68	-	-	641.10	641.10
42RB15A	DROP SANITARY MANHOLES, 4' DIAMETER, WITH TYPE 1 FRAME, CLOSED LID	167+22.68	12.67' RT	656.07	647.92	646.84	641.49	641.49
42RB17A	DROP SANITARY MANHOLES, 4' DIAMETER, WITH TYPE 1 FRAME, CLOSED LID	171+57.76	12.17' RT	658.91	648.69	-	642.65	642.65
42RB18A	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	173+58.01	12.33' RT	660.14	-	-	643.19	643.19
42RB19A	DROP SANITARY MANHOLES, 4' DIAMETER, WITH TYPE 1 FRAME, CLOSED LID	177+74.38	12.21' RT	665.42	656.96	651.32	644.30	644.30
42RB20A	DROP SANITARY MANHOLES, 4' DIAMETER, WITH TYPE 1 FRAME, CLOSED LID	182+80.97	11.95' RT	667.24	-	650.37	645.65	645.65
42RB22A	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	185+74.76	12.06' RT	664.32	-	-	646.43	646.43
42RB23A	DROP SANITARY MANHOLES, 4' DIAMETER, WITH TYPE 1 FRAME, CLOSED LID	189+67.88	13.72' RT	660.73	652.39	-	647.48	647.48
42RB24A	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	193+76.82	15.94' RT	659.44	-	-	650.80	650.80
42RB25A	DROP SANITARY MANHOLES, 4' DIAMETER, WITH TYPE 1 FRAME, CLOSED LID	196+87.62	15.73' RT	662.02	663.90	-	653.32	653.32
42RB27A	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	201+74.72	13.55' RT	672.77	-	-	663.94	663.94
42RB28A	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	205+89.52	11.42' RT	680.30	665.84	665.84	-	665.84
42RB29A	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	417+29.98	30.60' RT	680.29	666.19	666.19	-	-
42RB30A	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	415+03.62	32.50' RT	679.45	667.02	667.02	-	-
42RB31A	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	411+57.19	31.78' RT	680.46	667.46	667.46	-	-
42RB39A	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	422+44.30	41.47' RT	682.75	667.23	667.23	-	-
RIVERWOODS								
STRUCTURE NO.	STRUCTURE TYPE	STATION	OFFSET	RIM	INV (N)	INV (S)	INV (E)	INV (W)
5880A	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	101+89.00	61' LT	643.95	-	-	637.00	-
155006A	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	189+83.00	37.5' LT	660.13	653.23	650.00	-	653.23
34360A	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	196+88.00	48' LT	661.64	655.67	653.58	-	-
42RA19B	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	108+12.73	43.90' LT	645.51	-	-	636.53	-
42RA19C	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	503+89.75	39.44' RT	646.00	-	-	637.53	-
42RD01A	MANHOLES, SANITARY, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	133+50.80	35.81' RT	647.03	640.03	640.03	-	-

INDICATES AN EXISTING CONNECTION

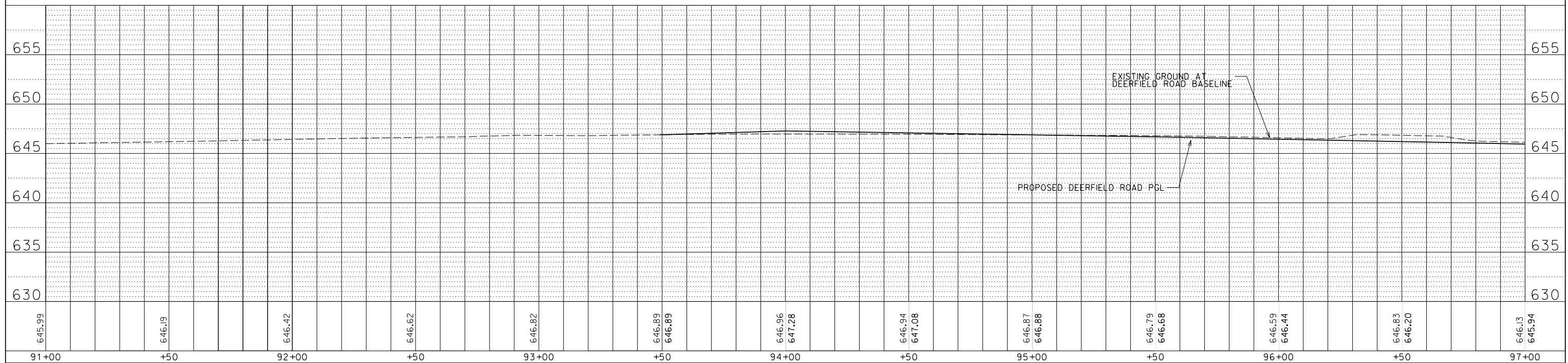
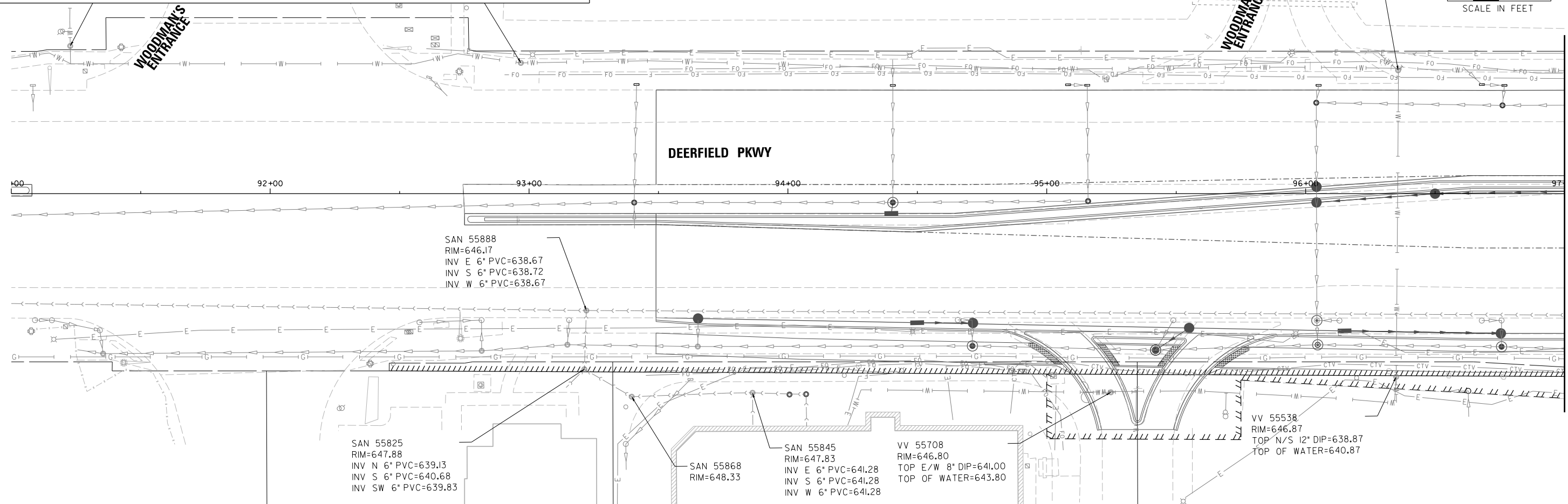
NOTES

- I. PIPES LISTED IN THE SANITARY SEWER SCHEDULE CONSIST OF ONLY SEWER PIPES. BETWEEN MANHOLES, SERVICES AND ADDITIONAL PIPE FOR RECONNECTIONS ARE NOT INCLUDED IN THE SCHEDULE ON THIS SHEET, BUT QUANTITIES HAVE BEEN INCLUDED IN THE SCHEDULE OF PRICES.

FILE NAME =	USER NAME = todrrscoil	DESIGNED JPC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DEERFIELD ROAD RECONSTRUCTION SANITARY SEWER SCHEDULE OF QUANTITIES					F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N:\C\DOT\190304.0003A\Mech\USCH.01.190304.0003A.SHT		DRAWN GCE	REVISED -							I257	I5-00038-07-WR	LAKE	I090	547
Default	PLOT SCALE = N.T.S.	CHECKED JPC	REVISED -		CONTRACT NO. 6IK62									
	PLOT DATE = 7/31/2026	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS	FED. AID PROJECT	

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED		EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING		<u> 430+00 </u>	SANITARY SEWER	->->->-	->->->-:
RIGHT OF WAY LINE	_____	_____ - -	MANHOLE	○	⊙
TEMPORARY EASEMENT		TT TT TT TT TT	SEWER/MAIN REMOVAL		~~~~~
PERMANENT EASEMENT		TTTTTTTTTTTT	SEWER/MAIN TO BE ABANDONED		-/-/-/-

1. ALL SERVICES ARE ASSUMED TO BE 6" UNLESS LABELLED OTHERWISE
2. NOT EVERY SERVICE OR OTHER CONNECTION MAY BE SHOWN. CONTRACTOR TO VERIFY ALL CONNECTIONS HAVE BEEN MADE BEFORE ABANDONMENT/REMOVAL OF EXISTING SEWERS.



FILE NAME =	USER NAME = tod@iscoll	DESIGNED -	REVISED -
N:\LCCOOT\190304.0003A\Mech\UPP.01.190304.0003A.SHT		DRAWN -	REVISED -
Default	PLOT SCALE = 20'	CHECKED -	REVISED -
	PLOT DATE = 7/31/2026	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DEERFIELD ROAD RECONSTRUCTION
UTILITY PLAN AND PROFILE**

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I257	I5-00038-07-WR	LAKE	1090	548
		CONTRACT NO. 61K62		
		ILLINOIS	FED. AID PROJECT	

LEGEND:

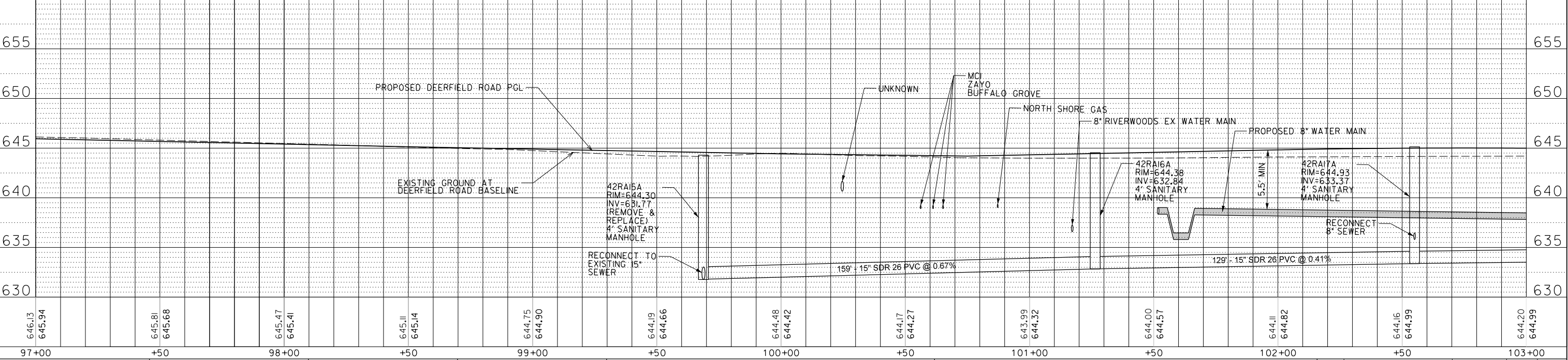
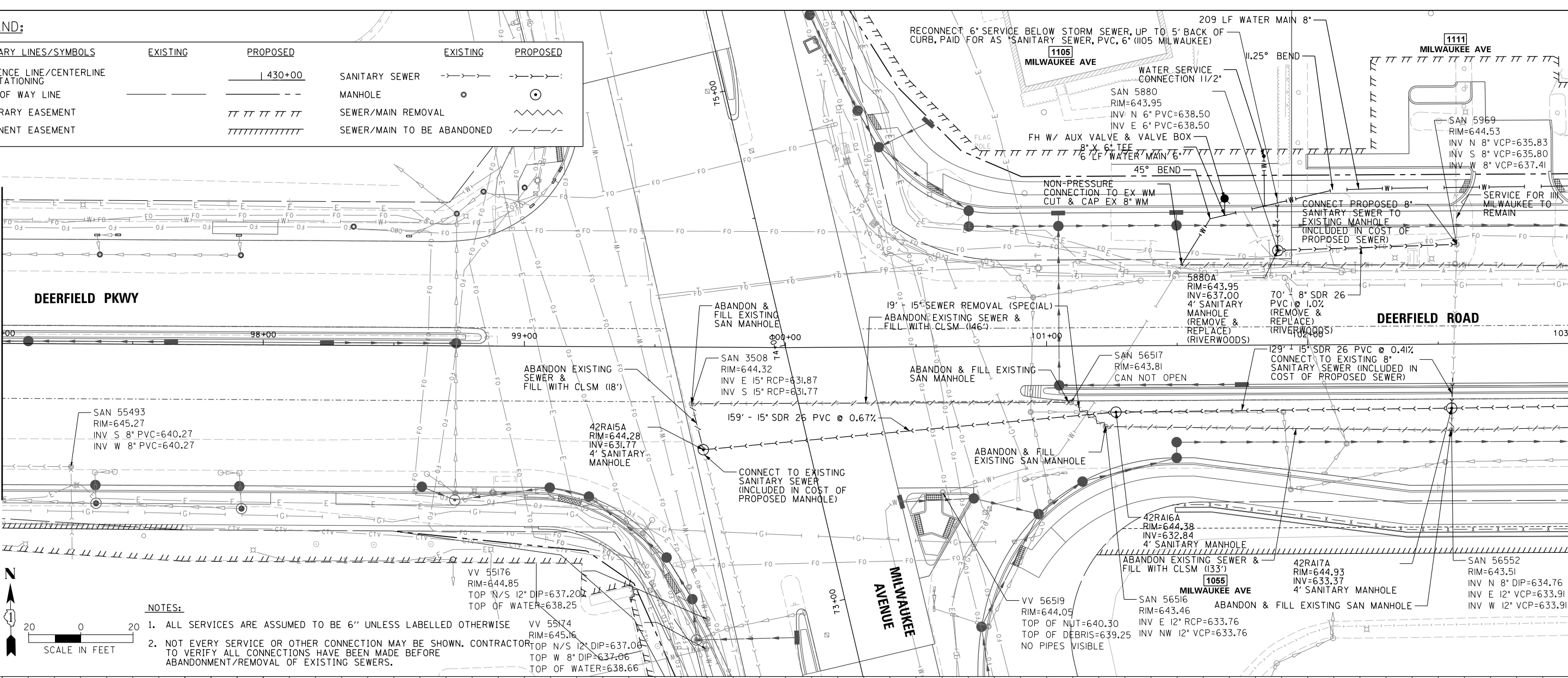
BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	---	430+00		
RIGHT OF WAY LINE	---	---		
TEMPORARY EASEMENT				
PERMANENT EASEMENT				
SANITARY SEWER	---	---		
MANHOLE	●	●		
SEWER/MAIN REMOVAL	---	---		
SEWER/MAIN TO BE ABANDONED	---	---		

PLAN	DATE	BY
SURVEYED		
PLOTTED		
ALIGNED		
CHECKED		
FILE NAME		
NO.		

PROFILE	DATE	BY
SURVEYED		
PLOTTED		
GRADES		
CHECKED		
STRUCTURE		
NOTATIONS		
CHNO		

MATCH LINE STA. 97+00

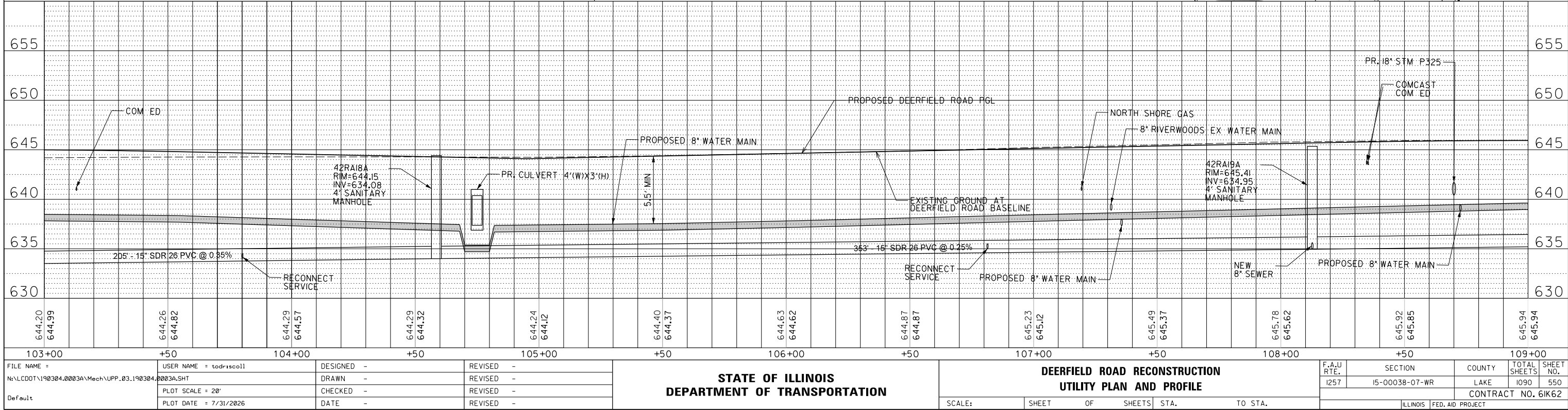
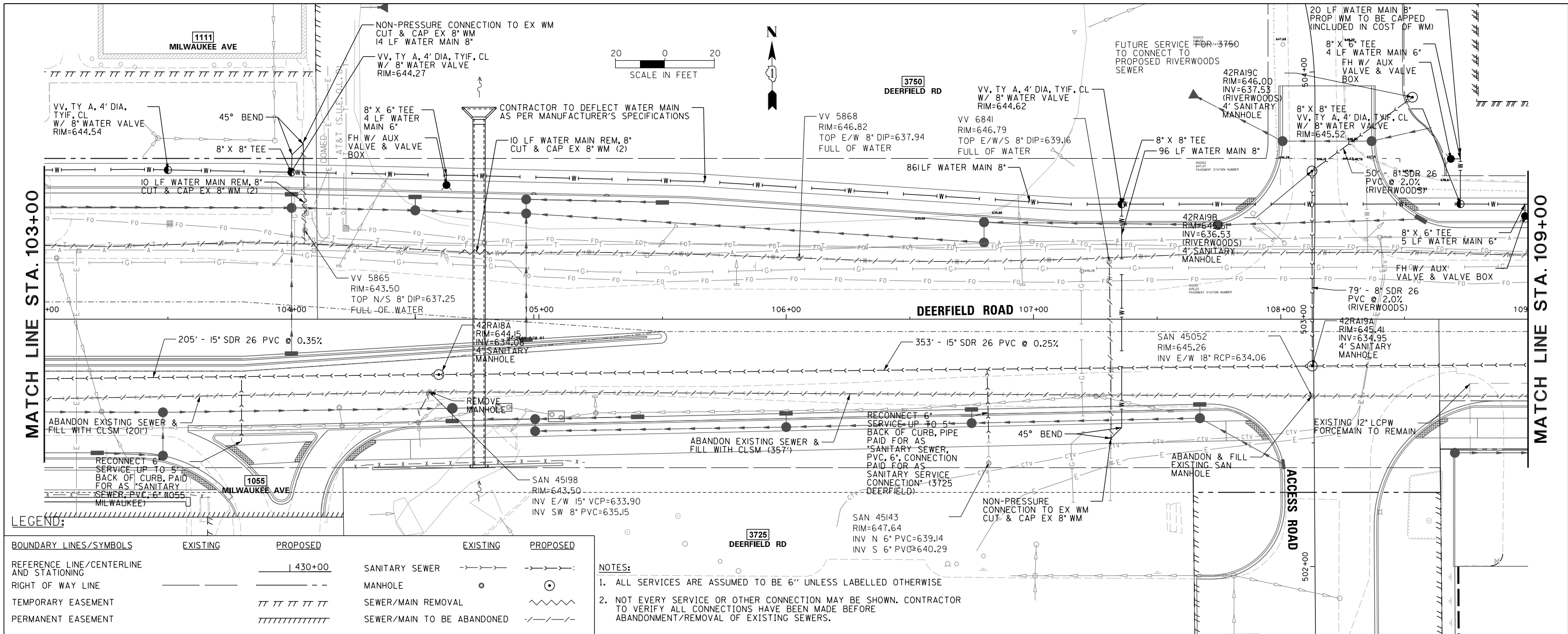
MATCH LINE STA. 103+00



FILE NAME =	USER NAME = tod-riscoll	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DEERFIELD ROAD RECONSTRUCTION UTILITY PLAN AND PROFILE					F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N:\CDDT\190304.0003A\Mech\UPP_02.190304.0003A.SHT		DRAWN -	REVISED -		I257	15-00038-07-WR	LAKE	1090	549					
Default	PLOT SCALE = 20'	CHECKED -	REVISED -				CONTRACT NO. 6IK62							
	PLOT DATE = 7/31/2026	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.				

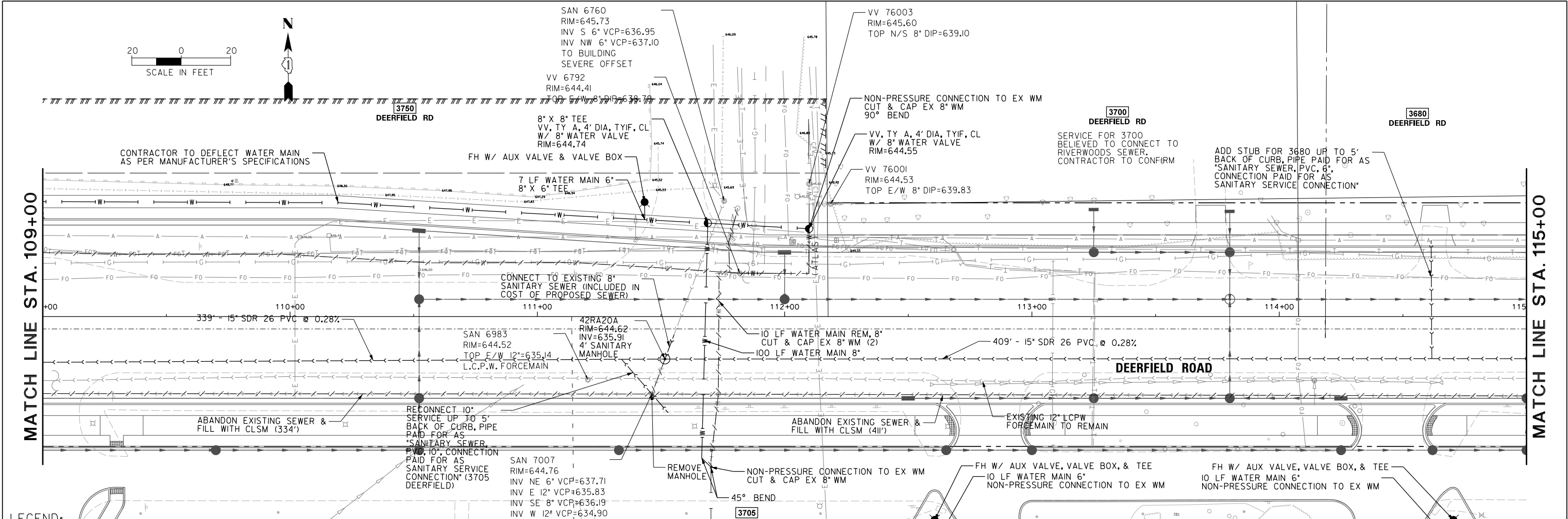
PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	FILE NAME		

PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	FILE NAME		



PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	FILE NAME		
	NO.		

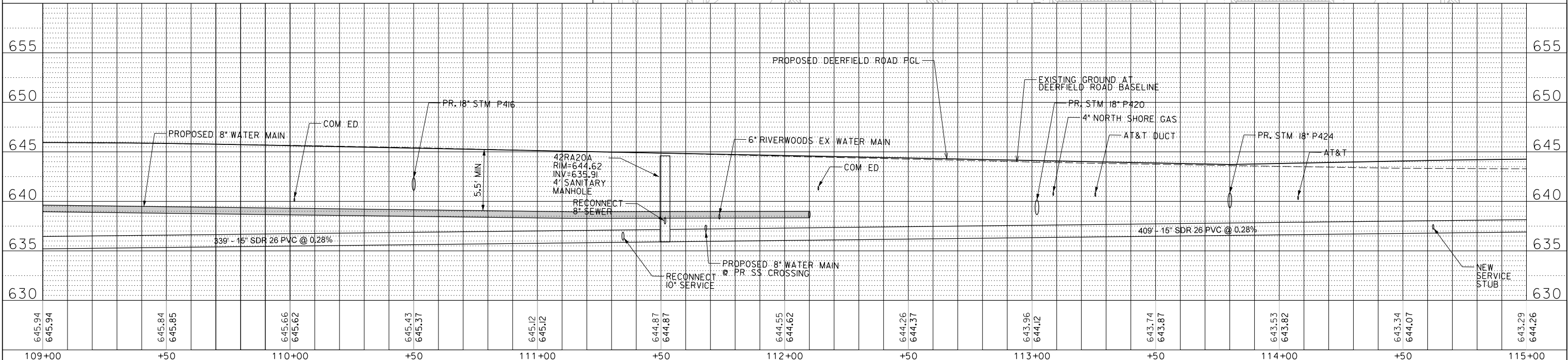
PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES		
	CHECKED		
	STRUCTURE		
	NOTATIONS		
	CHNO		



BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING		430+00		
RIGHT OF WAY LINE				
TEMPORARY EASEMENT				
PERMANENT EASEMENT				
			SANITARY SEWER	
			MANHOLE	
			SEWER/MAIN REMOVAL	
			SEWER/MAIN TO BE ABANDONED	

NOTES:

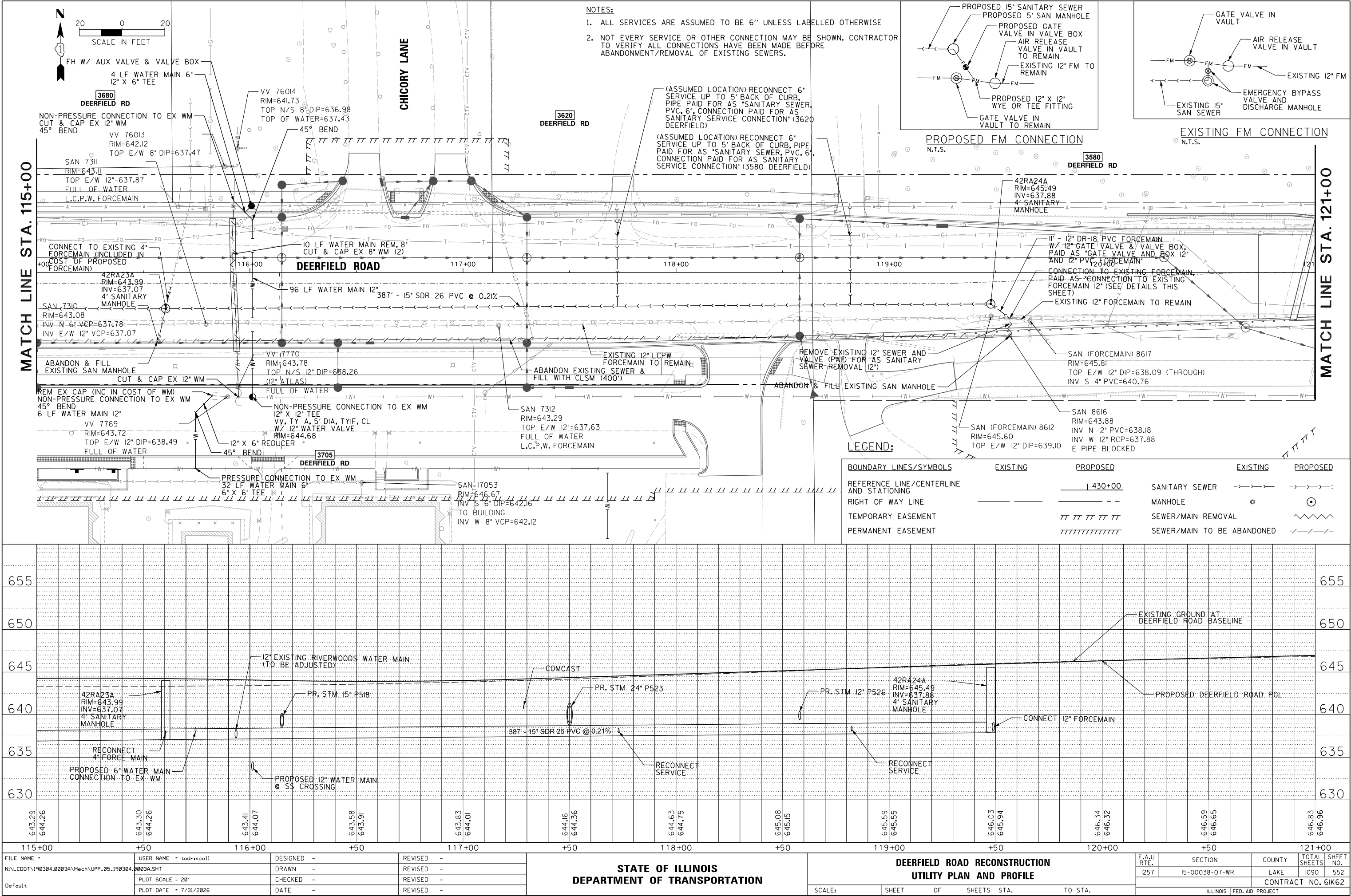
- ALL SERVICES ARE ASSUMED TO BE 6" UNLESS LABELLED OTHERWISE
- NOT EVERY SERVICE OR OTHER CONNECTION MAY BE SHOWN. CONTRACTOR TO VERIFY ALL CONNECTIONS HAVE BEEN MADE BEFORE ABANDONMENT/REMOVAL OF EXISTING SEWERS.



FILE NAME -	USER NAME - tod-rscoil	DESIGNED -	REVISED -	STATE OF ILLINOIS		DEERFIELD ROAD RECONSTRUCTION		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N:\CDDT\190304.0003A\Mech\UPP_04_190304.0003A.SHT		DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION		UTILITY PLAN AND PROFILE		I257	I5-00038-07-WR	LAKE	1090	551
Default	PLOT SCALE = 28"	CHECKED -	REVISED -							CONTRACT NO. 6IK62		
	PLOT DATE = 7/31/2026	DATE -	REVISED -							ILLINOIS		FED. AID PROJECT

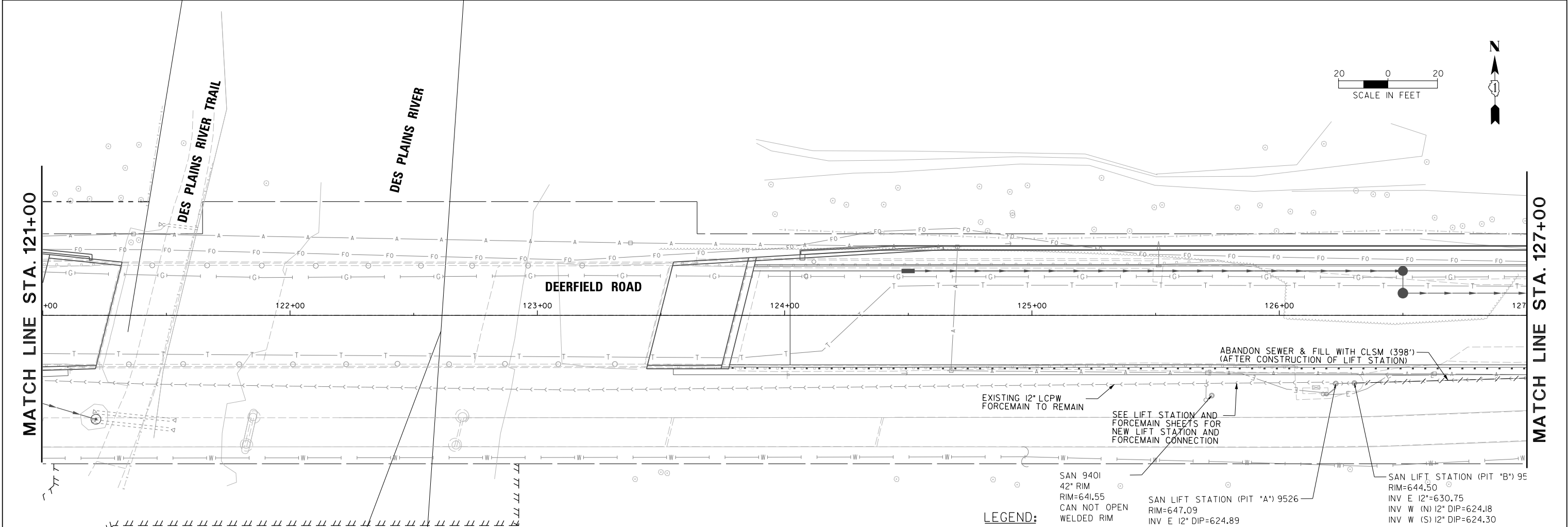
PLAN	DATE	BY
SURVEYED		
PLOTTED		
ALIGNED		
CHECKED		
FILE NAME		
NO.		

PROFILE	DATE	BY
SURVEYED		
PLOTTED		
GRADES CHECKED		
STRUCTURE NOTATIONS CHKO		
NO.		



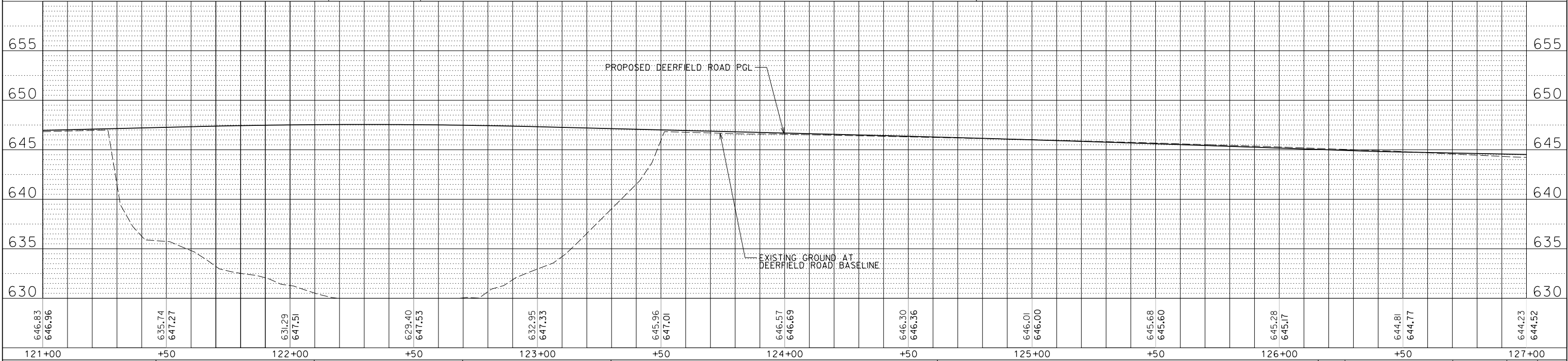
PLAN	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	ALIGNED		
	CHECKED		
FILE NAME			
NO.			

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



- NOTES:
1. ALL SERVICES ARE ASSUMED TO BE 6" UNLESS LABELLED OTHERWISE
 2. NOT EVERY SERVICE OR OTHER CONNECTION MAY BE SHOWN. CONTRACTOR TO VERIFY ALL CONNECTIONS HAVE BEEN MADE BEFORE ABANDONMENT/REMOVAL OF EXISTING SEWERS.

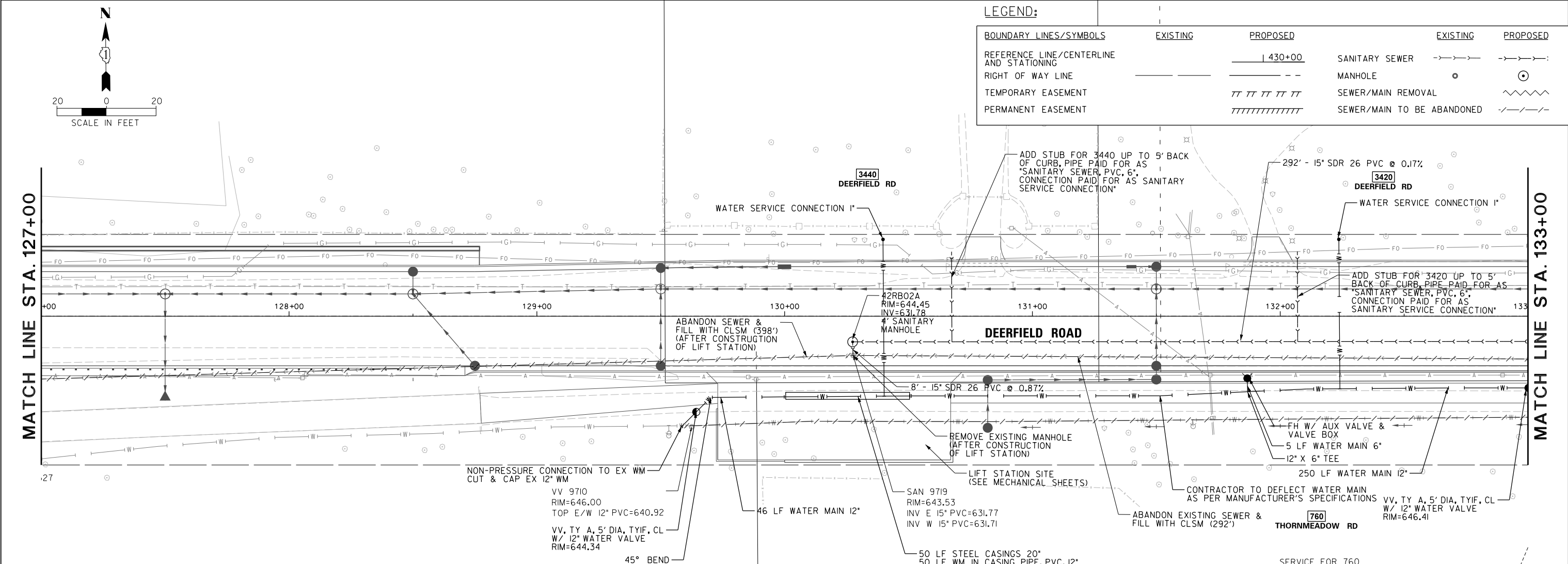
BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING		430+00		
RIGHT OF WAY LINE		--		
TEMPORARY EASEMENT		TT TT TT TT TT		
PERMANENT EASEMENT		TTTTTTTTTTTT		
			SANITARY SEWER	
			MANHOLE	
			SEWER/MAIN REMOVAL	
			SEWER/MAIN TO BE ABANDONED	



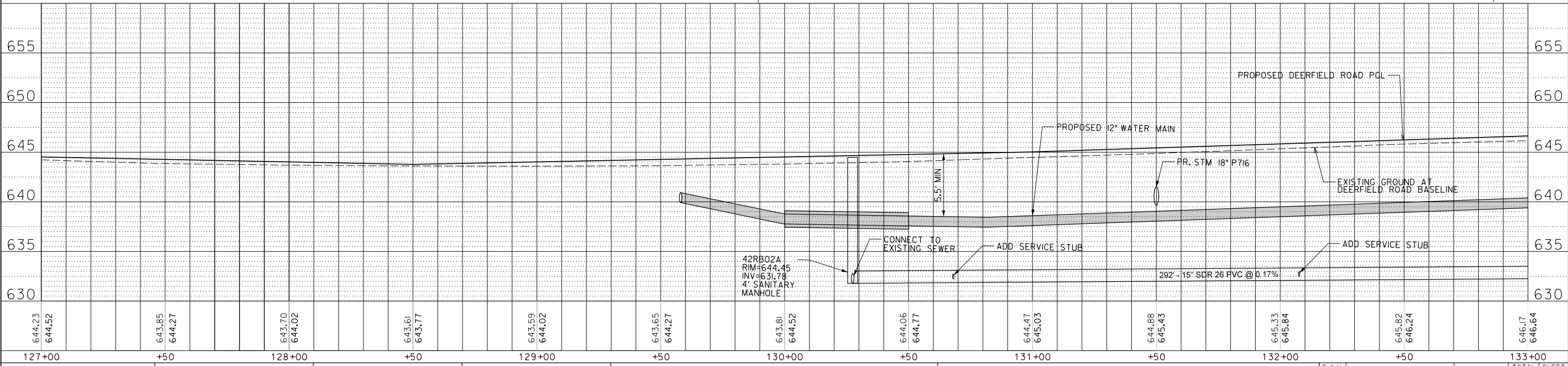
FILE NAME =	USER NAME = todrrscoil	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DEERFIELD ROAD RECONSTRUCTION UTILITY PLAN AND PROFILE		F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N:\L\CDOT\190304.0003A\Mech\UPP.06.190304.0003A.SHT		DRAWN -	REVISED -		I257	I5-00038-07-WR	LAKE	1090	553		
Default	PLOT SCALE = 28'	CHECKED -	REVISED -		CONTRACT NO. 6IK62						
	PLOT DATE = 7/31/2026	DATE -	REVISED -		ILLINOIS FED.AID PROJECT						
SCALE:		SHEET	OF	SHEETS	STA.	TO	STA.				

PLAN	SURVEYED	BY	DATE
NO.	FILE NAME		
NOTE BOOK	ALIGNED		
	FILE NAME		

PROFILE	SURVEYED	BY	DATE
NO.	FILE NAME		
NOTE BOOK	GRADES CHECKED		
	STRUCTURE NOTATIONS CHNO		



- NOTES:
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 2. NOT EVERY SERVICE OR OTHER CONNECTION MAY BE SHOWN. CONTRACTOR TO VERIFY ALL CONNECTIONS HAVE BEEN MADE BEFORE ABANDONMENT/REMOVAL OF EXISTING SEWERS.

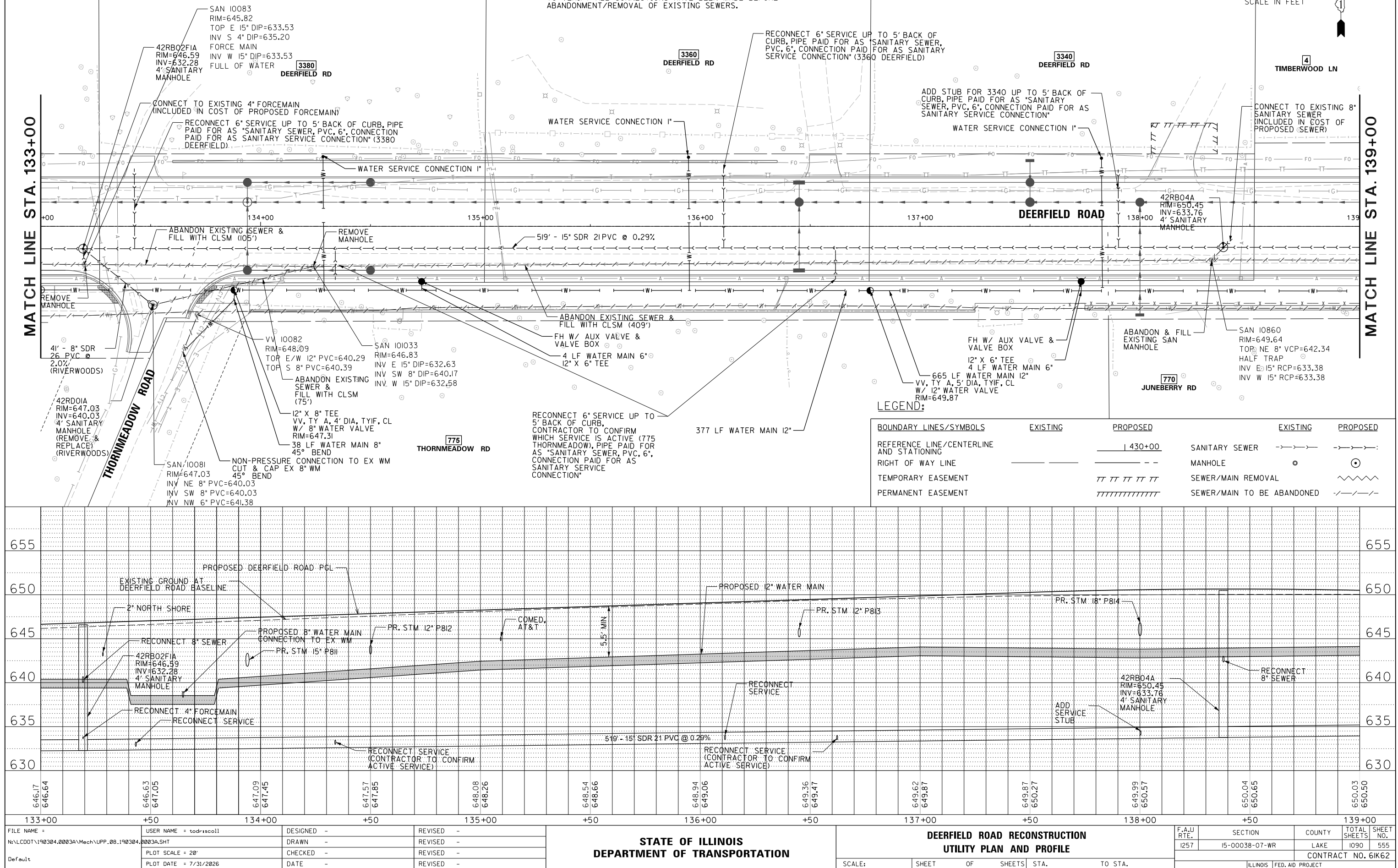


FILE NAME =	USER NAME = todrcoll	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		DEERFIELD ROAD RECONSTRUCTION UTILITY PLAN AND PROFILE		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N:\LCDOT\190304.0003A\Mech\UPP.07.190304.0003A.SHT		DRAWN -	REVISED -					I257	I5-00038-07-WR	LAKE	1090	554
Default	PLOT SCALE = 28'	CHECKED -	REVISED -					CONTRACT NO. 6IK62				
	PLOT DATE = 7/31/2026	DATE -	REVISED -					ILLINOIS FED. AID PROJECT				

PROFILE	SURVEYED _____	BY _____	DATE _____
	PLOTTED _____		
NOTE BOOK	GRADES CHECKED _____		
	B.M. NOTED _____		
NO. _____	STRUCTURE NOTATIONS CH'KD _____		

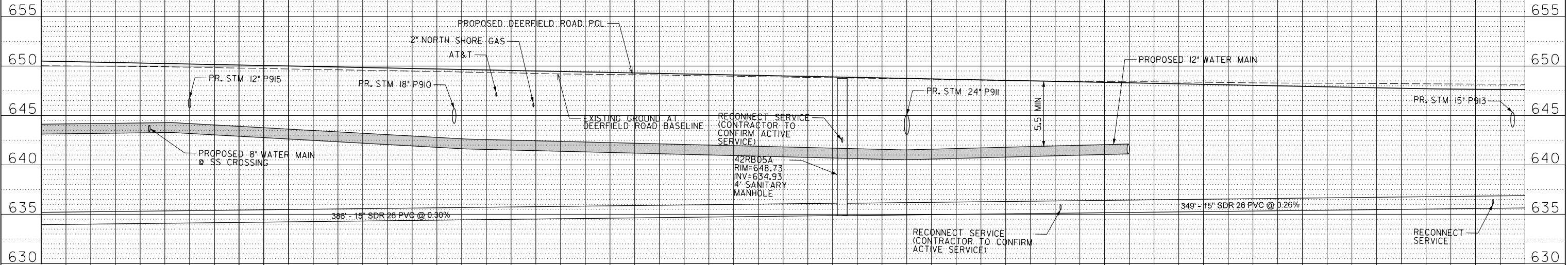
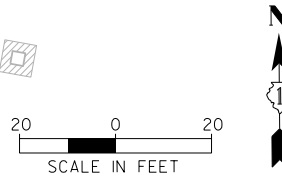
MATCH LINE STA. 139+00

-



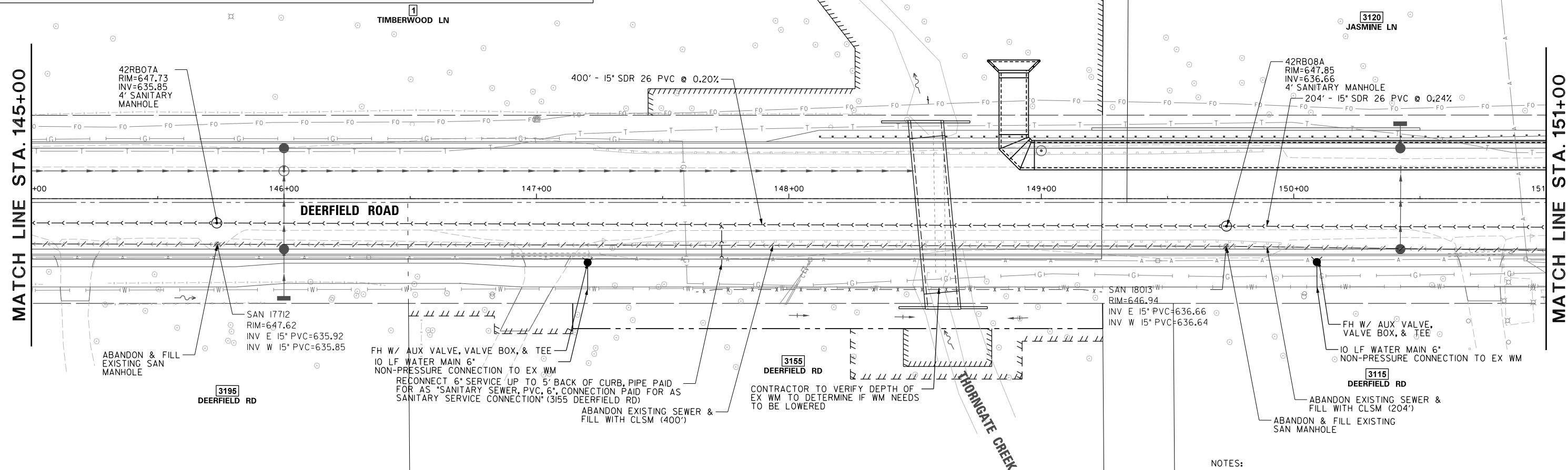
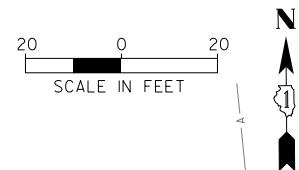
BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING		<u> 430+00 </u>		
RIGHT OF WAY LINE	_____	_____ --		
TEMPORARY EASEMENT		/// /// /// /// ///		
PERMANENT EASEMENT		////////////////////		

2. NOT EVERY SERVICE OR OTHER CONNECTION MAY BE SHOWN. CONTRACTOR TO VERIFY ALL CONNECTIONS HAVE BEEN MADE BEFORE ABANDONMENT/REMOVAL OF EXISTING SEWERS. TIM



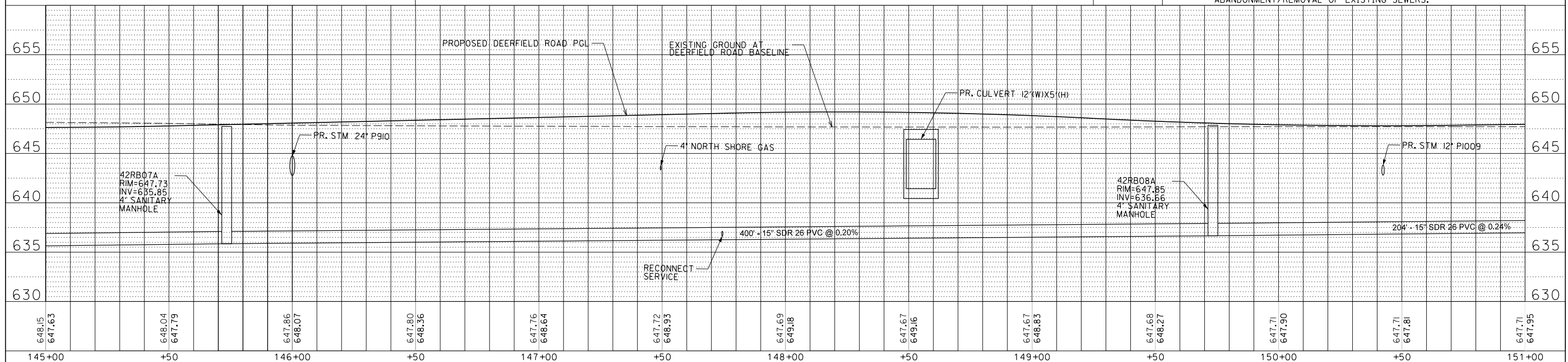
FILE NAME =	USER NAME = tod-riscoll	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DEERFIELD ROAD RECONSTRUCTION UTILITY PLAN AND PROFILE					F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N:\LCDOT\190304.0003A\Mech\UPP_09.190304.0003A.SHT		DRAWN -	REVISED -							1257	15-00038-07-WR	LAKE	1090	556
Default	PLOT SCALE = 20'	CHECKED -	REVISED -		CONTRACT NO. 61K62									
	PLOT DATE = 7/31/2026	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.			

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING		<u> 430+00 </u>		
RIGHT OF WAY LINE				
TEMPORARY EASEMENT				
PERMANENT EASEMENT				



NOTES:

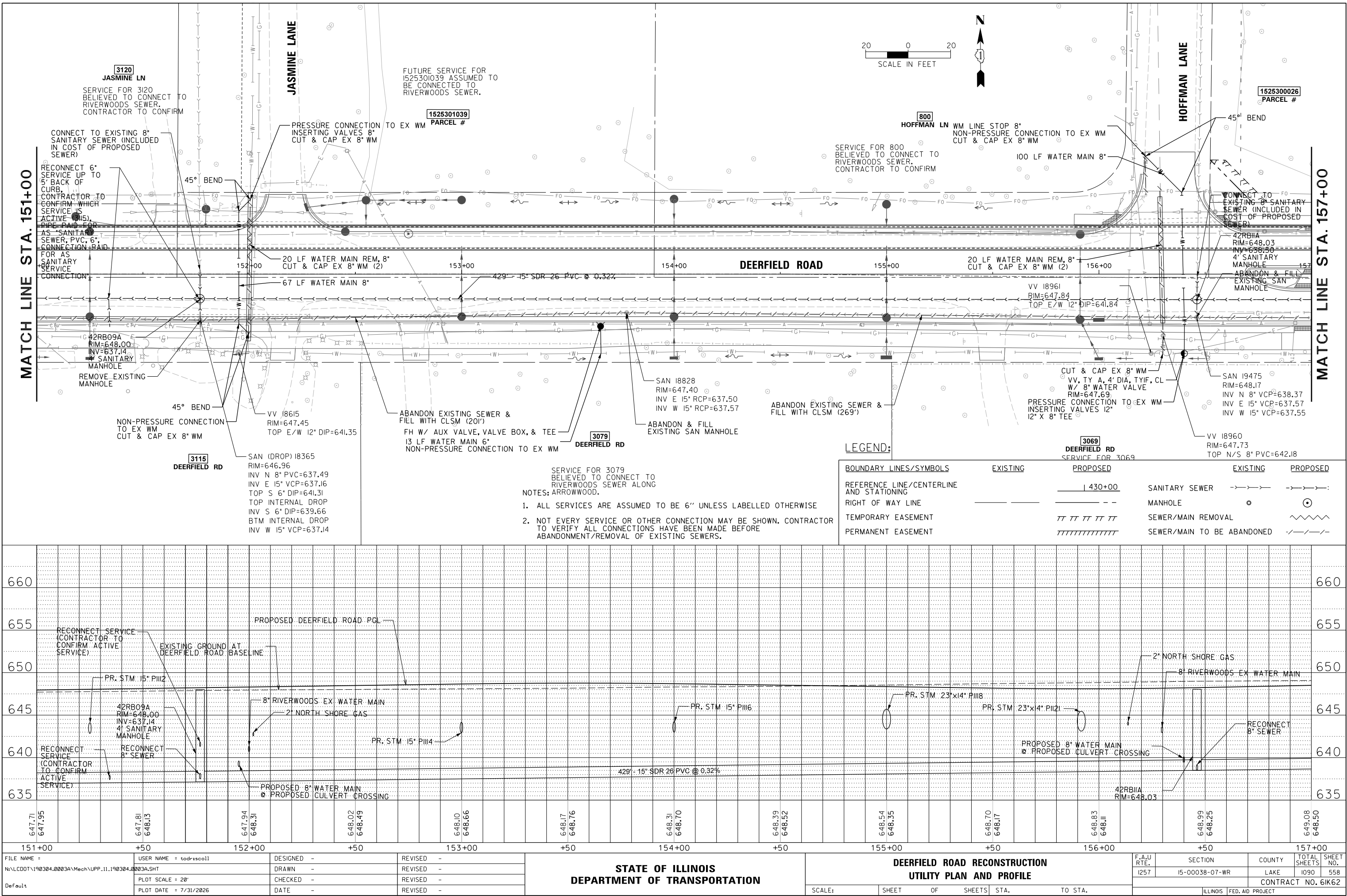
1. ALL SERVICES ARE ASSUMED TO BE 6" UNLESS LABELLED OTHERWISE
2. NOT EVERY SERVICE OR OTHER CONNECTION MAY BE SHOWN. CONTRACTOR TO VERIFY ALL CONNECTIONS HAVE BEEN MADE BEFORE ABANDONMENT/REMOVAL OF EXISTING SEWERS.



FILE NAME =	USER NAME = todricscoll	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DEERFIELD ROAD RECONSTRUCTION UTILITY PLAN AND PROFILE				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N:\CDDOT\190304\0003A\Mech\UPP_10_190304\0003A.SHT		DRAWN -	REVISED -		1257	15-00038-07-WR	LAKE	1090	557				
Default	PLOT SCALE = 20'	CHECKED -	REVISED -		CONTRACT NO. 61K62								
	PLOT DATE = 7/31/2026	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.			

PLAN	DATE	BY
SURVEYED		
PLOTTED		
ALIGNED		
CHECKED		
FILE NAME		
NO.		

PROFILE	DATE	BY
SURVEYED		
PLOTTED		
GRADES		
CHECKED		
STRUCTURE		
NOTATIONS		
CHNO		



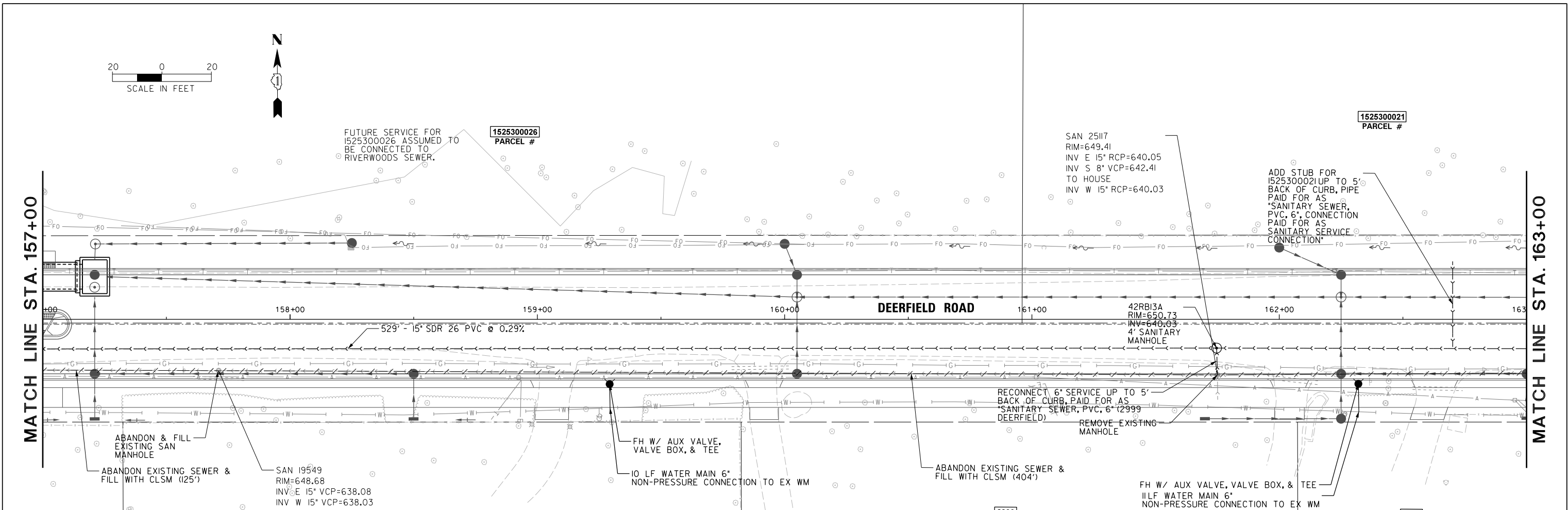
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N:\LCDDT\190304.0003A\Mech\UPP.11.190304.0003A.SHT		DRAWN -	REVISED -
Default	PLOT SCALE = 28"	CHECKED -	REVISED -
	PLOT DATE = 7/31/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DEERFIELD ROAD RECONSTRUCTION UTILITY PLAN AND PROFILE		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE:	SHEET OF SHEETS	STA.	TO STA.	LAKE	1090	558
				CONTRACT NO. 6IK62		
				ILLINOIS FED. AID PROJECT		

PLAN	DATE	BY
SURVEYED		
PLOTTED		
ALIGNED		
CHECKED		
FILE NAME		
NO.		

PROFILE	DATE	BY
SURVEYED		
PLOTTED		
GRADES		
CHECKED		
STRUCTURE		
NOTATIONS		
CHNO		



LEGEND:		[3059] DEERFIELD RD		[2999] DEERFIELD RD		[2977] DEERFIELD RD	
BOUNDARY LINES/SYMBOLS		EXISTING	PROPOSED	EXISTING	PROPOSED		
REFERENCE LINE/CENTERLINE AND STATIONING			430+00			NOTES:	
RIGHT OF WAY LINE			--			1. ALL SERVICES ARE ASSUMED TO BE 6" UNLESS LABELLED OTHERWISE	
TEMPORARY EASEMENT			TT TT TT TT TT	SEWER/MAIN REMOVAL		2. NOT EVERY SERVICE OR OTHER CONNECTION MAY BE SHOWN. CONTRACTOR TO VERIFY ALL CONNECTIONS HAVE BEEN MADE BEFORE ABANDONMENT/REMOVAL OF EXISTING SEWERS.	
PERMANENT EASEMENT			TTTTTTTTTTTT	SEWER/MAIN TO BE ABANDONED			

PLAN	SURVEYED	BY	DATE
NOTED	PLOTTED		
BOOK	ALIGNED		
NO.	CHECKED		
	FILE NAME		

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

MATCH LINE STA. 163+00

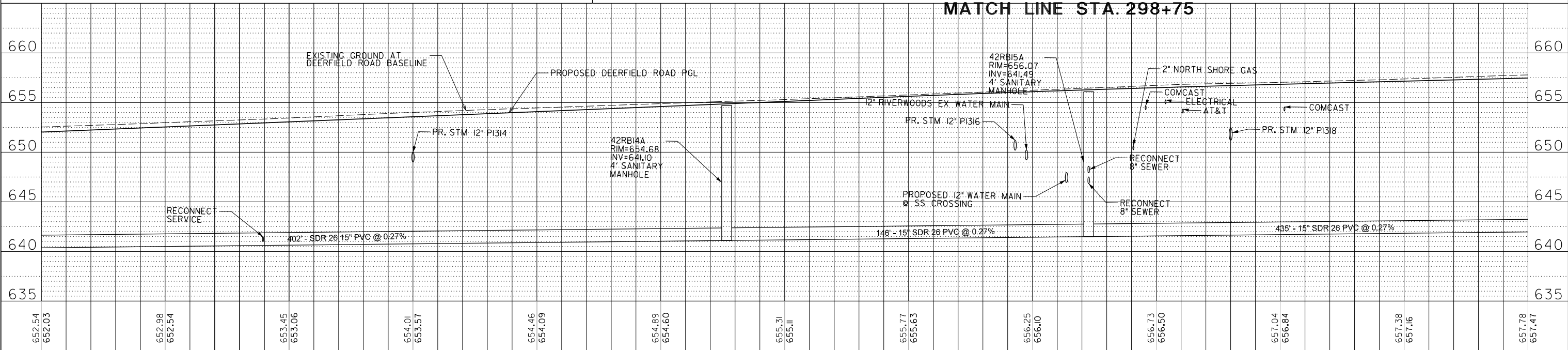
MATCH LINE STA. 169+00

LEGEND:

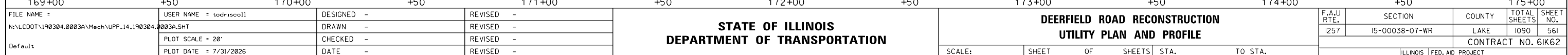
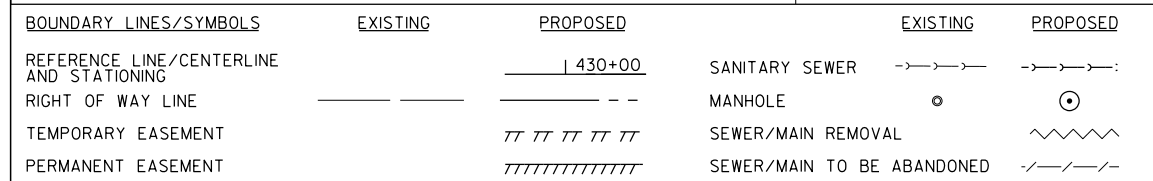
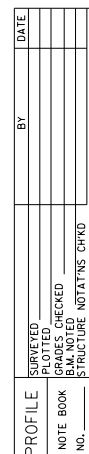
BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING		430+00	SANITARY SEWER	→→→→→
RIGHT OF WAY LINE	---	---	MANHOLE	○
TEMPORARY EASEMENT	///	///	SEWER/MAIN REMOVAL	~~~~~
PERMANENT EASEMENT	////	////	SEWER/MAIN TO BE ABANDONED	-/-/-/-

NOTES:

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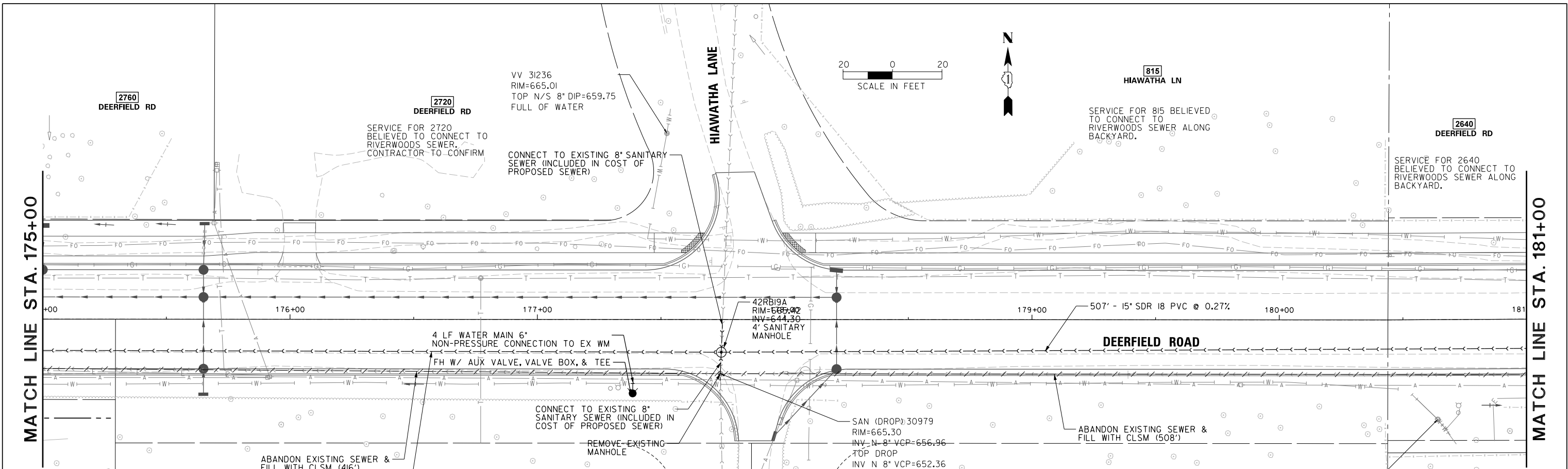


163+00		+50		164+00		+50		165+00		+50		166+00		+50		167+00		+50		168+00		+50		169+00	
FILE NAME =		USER NAME = todrrscoil		DESIGNED -		REVISED -		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		DEERFIELD ROAD RECONSTRUCTION UTILITY PLAN AND PROFILE						F.A.U RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.				
N:\CDDT\190304.0003A\Mech\UPP.13.190304.0003A.SHT				DRAWN -		REVISED -										I257	I5-00038-07-WR		LAKE	1090	560				
Default		PLOT SCALE = 20"		CHECKED -		REVISED -										CONTRACT NO. 6IK62									
		PLOT DATE = 7/31/2026		DATE -		REVISED -																			
										SCALE:		SHEET		OF		SHEETS		STA.		TO		STA.			



PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	ALIGNED		
	CHECKED		
	FILE NAME		

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

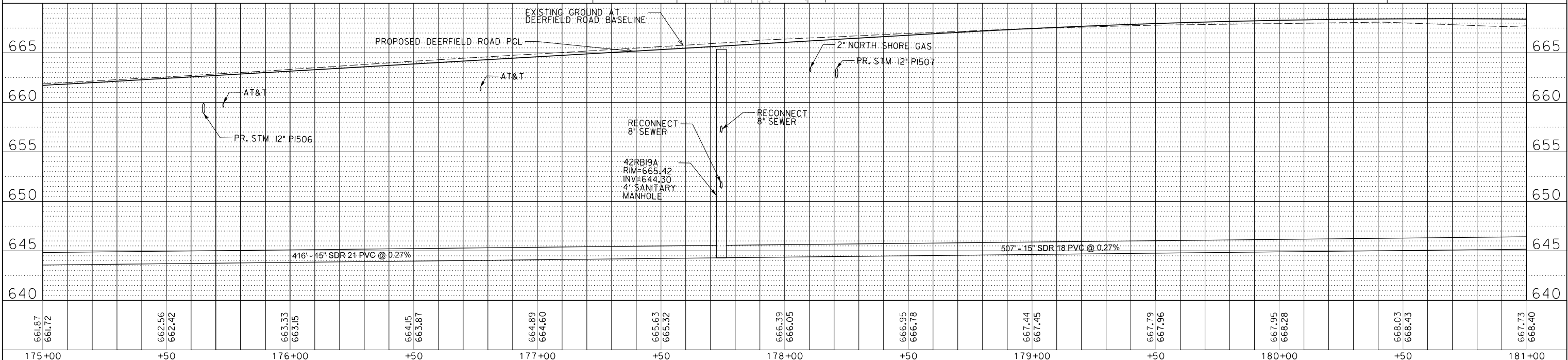


LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	---	---	SANITARY SEWER	---
RIGHT OF WAY LINE	---	---	MANHOLE	○
TEMPORARY EASEMENT	----	----	SEWER/MAIN REMOVAL	~~~~~
PERMANENT EASEMENT			SEWER/MAIN TO BE ABANDONED	-/-/-/-

NOTES:

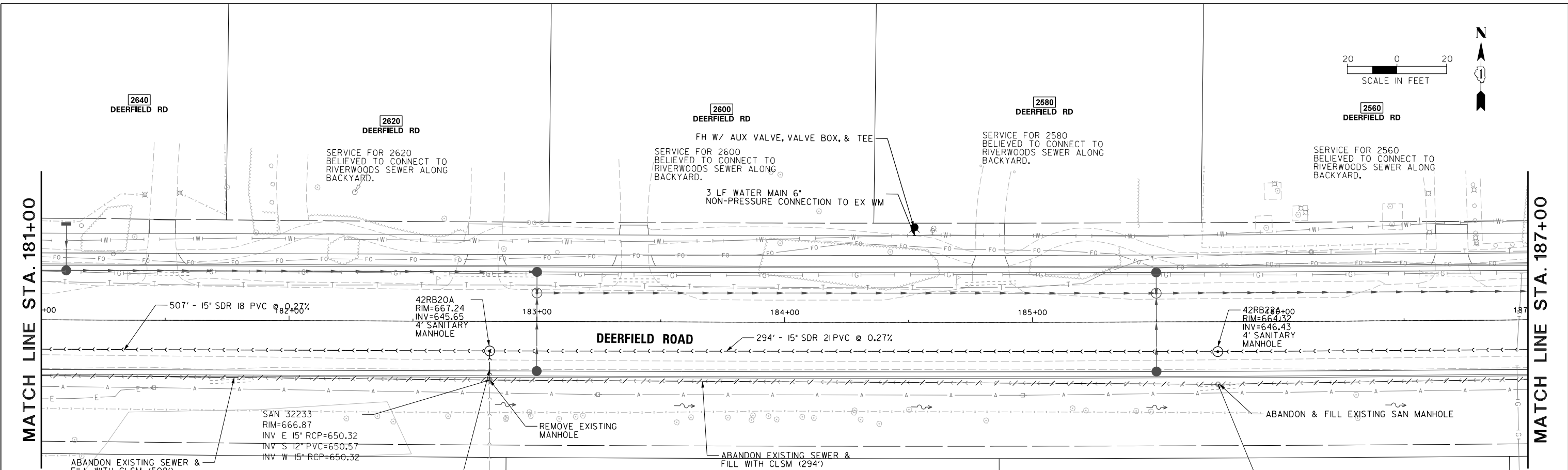
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FILE NAME =	USER NAME = todriscoll	DESIGNED -	REVISED -	STATE OF ILLINOIS		DEERFIELD ROAD RECONSTRUCTION		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N:\CDDT\190304.0003A\Mech\Upp\15.190304.0003A.SHT		DRAWN -	REVISED -	DEPARTMENT OF TRANSPORTATION		UTILITY PLAN AND PROFILE		I257	I5-00038-07-WR	LAKE	1090	562
Default	PLOT SCALE = 28"	CHECKED -	REVISED -							CONTRACT NO. 6IK62		
	PLOT DATE = 7/31/2026	DATE -	REVISED -					SCALE:		SHEET OF SHEETS		STA. TO STA.
										ILLINOIS FED. AID PROJECT		

PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	ALIGNED		
	CHECKED		
	FILE NAME		

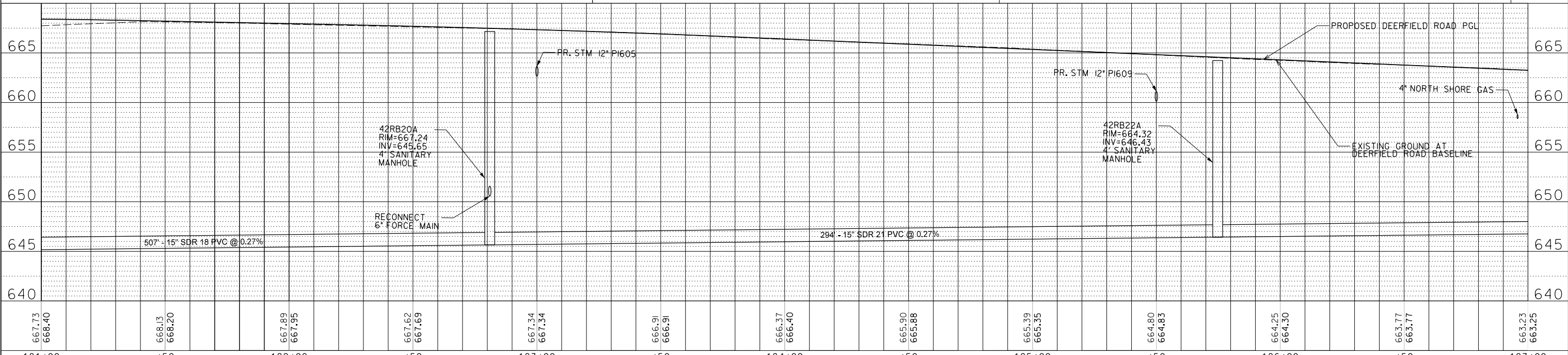
PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	GRADES CHECKED		
	STRUCTURE NOTATIONS CHKO		



LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING		430+00		
RIGHT OF WAY LINE	---	---		
TEMPORARY EASEMENT	///	///		
PERMANENT EASEMENT	////	////		
			SANITARY SEWER	->->->-
			MANHOLE	○
			SEWER/MAIN REMOVAL	~~~~~
			SEWER/MAIN TO BE ABANDONED	-/-/-/-

- NOTES:
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181+00	+50	182+00	+50	183+00	+50	184+00	+50	185+00	+50	186+00	+50	187+00				
FILE NAME =	USER NAME = todrcoll	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				DEERFIELD ROAD RECONSTRUCTION UTILITY PLAN AND PROFILE				F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N:\CDDT\190304.0003A\Mech\UPP.16.190304.0003A.SHT		DRAWN -	REVISED -									I257	I5-00038-07-WR	LAKE	1090	563
Default	PLOT SCALE = 20'	CHECKED -	REVISED -					CONTRACT NO. 6IK62								
	PLOT DATE = 7/31/2026	DATE -	REVISED -					SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

LEGEND:

BOUNDARY LINES/SYMBOLS

REFERENCE LINE/CENTERLINE
AND STATIONING

RIGHT OF WAY LINE

TEMPORARY EASEMENT

PERMANENT EASEMENT

EXISTING

PROPOSED

EXISTING

PROPOSED

SANITARY SEWER

MANHOLE

SEWER/MAIN REMOVAL

SEWER/MAIN TO BE ABANDONED

SAN 33516
RIM=661.70
INV N 8" VCP=656.50
INV S 8" VCP=656.47

SERVICE FOR 2421 BELIEVED
TO CONNECT TO
RIVERWOODS SEWER ALONG
FOREST GLEN. CONTRACTOR
TO CONFIRM

FOREST GLEN TRAIL

VV 33435
RIM=660.31
TOP N/S 8"
DIP=654.77
FULL OF WATER

VV 33451
RIM=660.18
TOP E 8" DIP=655.42
TOP W 8" DIP=655.28

2400
FOREST GLEN TRL

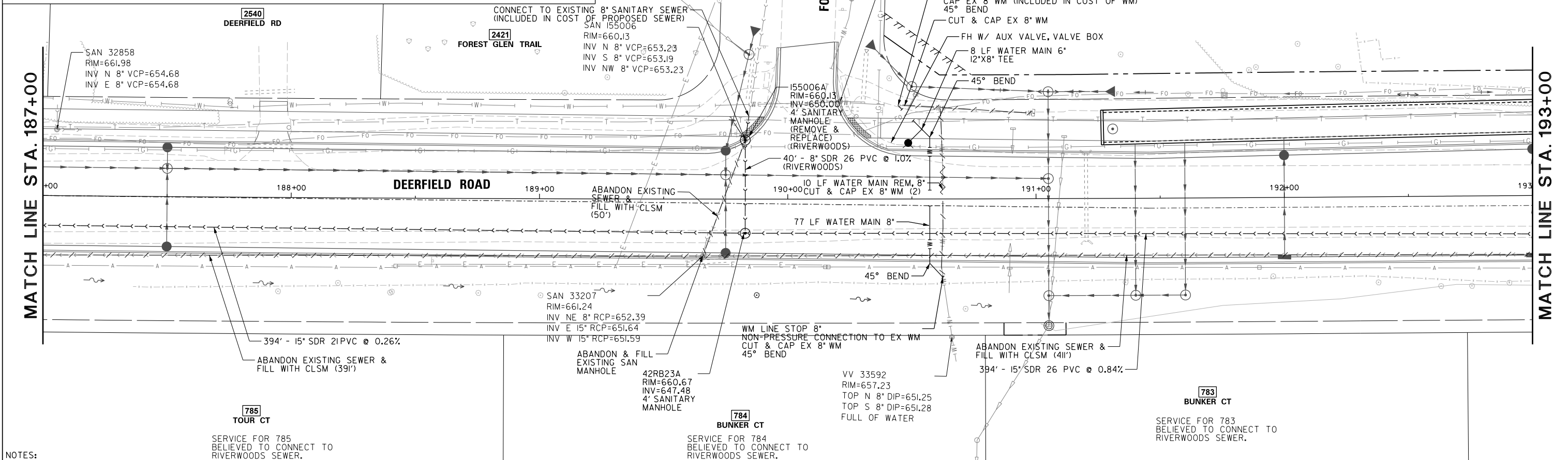
SERVICE FOR 2400
BELIEVED TO CONNECT TO
RIVERWOODS SEWER ALONG
FOREST GLEN.

20 0 20
SCALE IN FEET



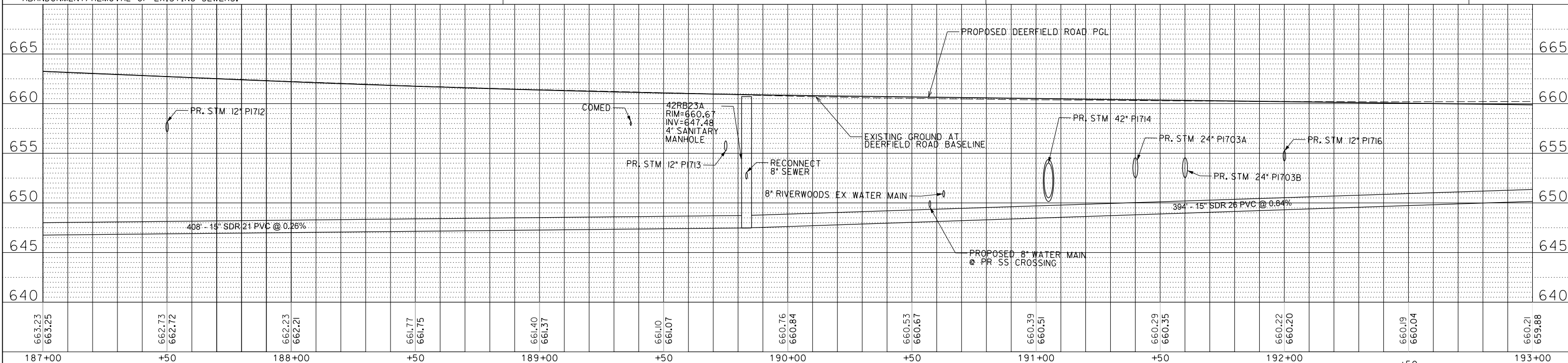
MATCH LINE STA. 187+00

MATCH LINE STA. 193+00



NOTES:

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FILE NAME =	USER NAME = tod-rscoil	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION				DEERFIELD ROAD RECONSTRUCTION UTILITY PLAN AND PROFILE				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N:\CDDT\190304.0003A\Mech\UPP.17.190304.0003A.SHT		DRAWN -	REVISED -									I257	I5-00038-07-WR	LAKE	1090	564
Default	PLOT SCALE = 28"	CHECKED -	REVISED -									CONTRACT NO. 61K62				
	PLOT DATE = 7/31/2026	DATE -	REVISED -									ILLINOIS FED. AID PROJECT				

LEGEND:

BOUNDARY LINES/SYMBOLS

REFERENCE LINE/CENTERLINE
AND STATIONING
RIGHT OF WAY LINE
TEMPORARY EASEMENT
PERMANENT EASEMENT

EXISTING

PROPOSED

EXISTING

PROPOSED

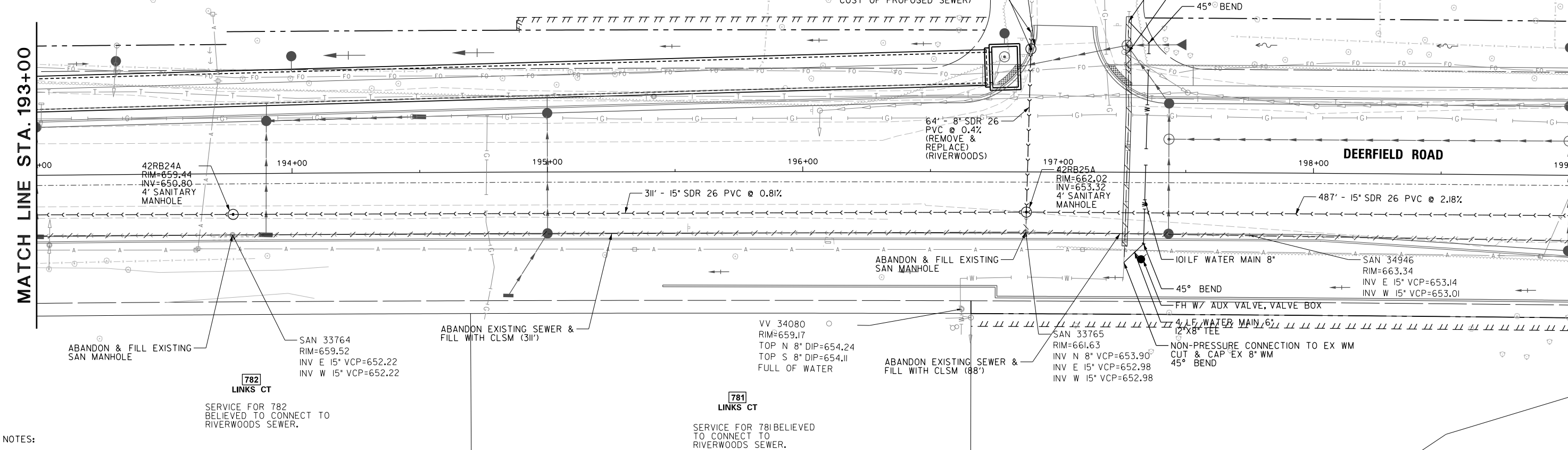
SANITARY SEWER
MANHOLE
SEWER/MAIN REMOVAL
SEWER/MAIN TO BE ABANDONED

PLAN	DATE	BY
SURVEYED		
PLOTTED		
ALIGNED		
CHECKED		
FILE NAME		
NO.		

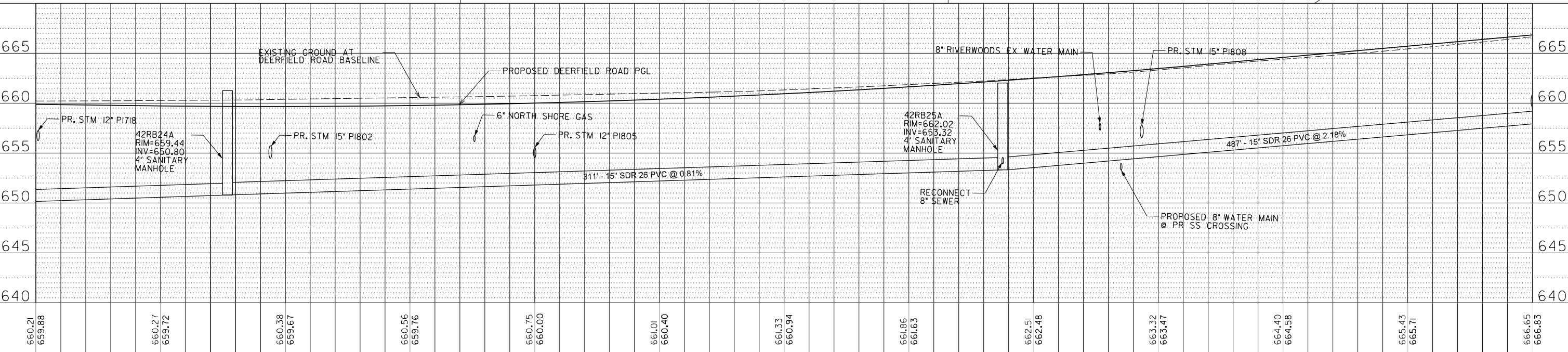
PROFILE	DATE	BY
SURVEYED		
PLOTTED		
GRADES CHECKED		
STRUCTURE NOTATIONS CHKO		
NO.		

MATCH LINE STA. 193+00

MATCH LINE STA. 199+00



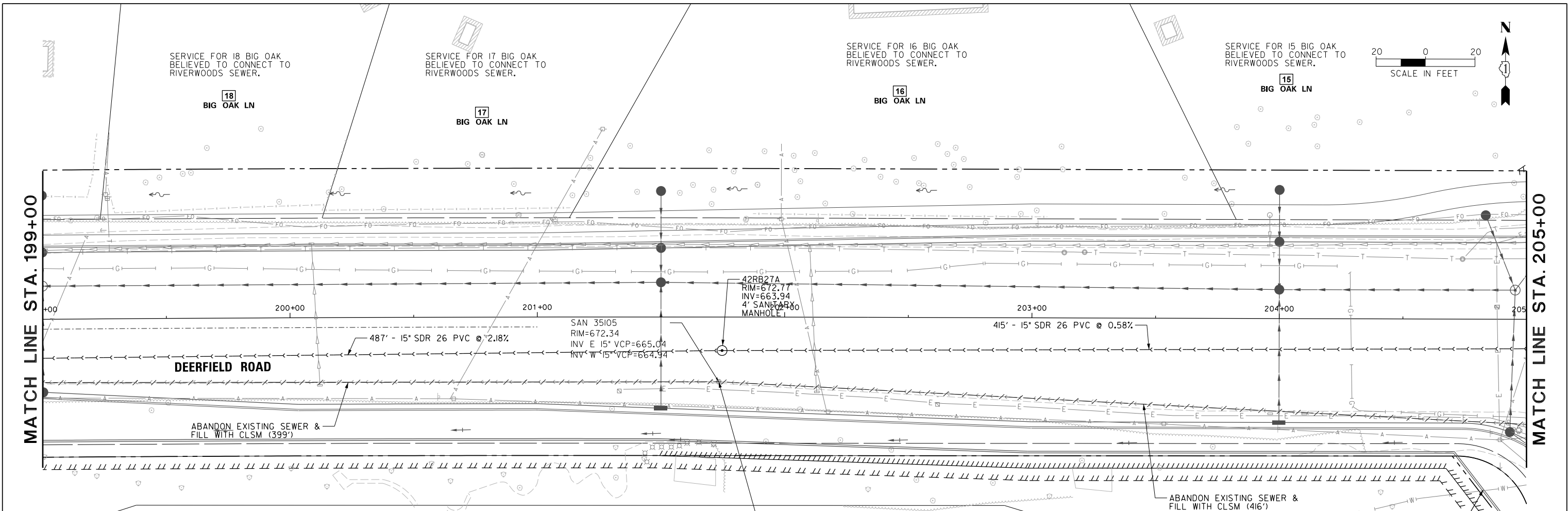
- NOTES:
- ALL SERVICES ARE ASSUMED TO BE 6" UNLESS LABELLED OTHERWISE
 - NOT EVERY SERVICE OR OTHER CONNECTION MAY BE SHOWN. CONTRACTOR TO VERIFY ALL CONNECTIONS HAVE BEEN MADE BEFORE ABANDONMENT/REMOVAL OF EXISTING SEWERS.



FILE NAME =	USER NAME = tod-rscoil	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DEERFIELD ROAD RECONSTRUCTION UTILITY PLAN AND PROFILE				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N:\CDDT\190304.0003A\Mech\UPP.18.190304.0003A.SHT		DRAWN -	REVISED -						I257	I5-00038-07-WR	LAKE	1090	565
Default	PLOT SCALE = 20'	CHECKED -	REVISED -		CONTRACT NO. 6IK62				ILLINOIS FED. AID PROJECT				
	PLOT DATE = 7/31/2026	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.			

PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
FILE NAME	ALIGNED		
	CADD FILE NAME		

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



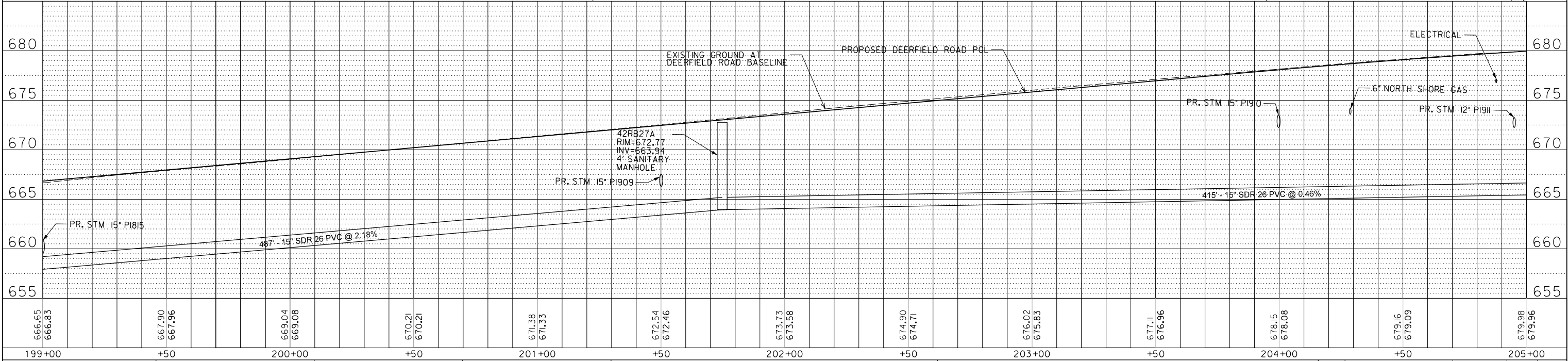
LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING		430+00	SANITARY SEWER	
RIGHT OF WAY LINE			MANHOLE	
TEMPORARY EASEMENT			SEWER/MAIN REMOVAL	
PERMANENT EASEMENT			SEWER/MAIN TO BE ABANDONED	

NOTES:

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FILE NAME =	USER NAME = tod-rscoil	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DEERFIELD ROAD RECONSTRUCTION UTILITY PLAN AND PROFILE				F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N:\CDDT\190304.0003A\Mech\UPP.19.190304.0003A.SHT		DRAWN -	REVISED -		I257	15-00038-07-WR	LAKE	1090	566				
Default	PLOT SCALE = 20'	CHECKED -	REVISED -		CONTRACT NO. 6IK62				ILLINOIS FED. AID PROJECT				
	PLOT DATE = 7/31/2026	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.		

PROFILE	SURVEYED _____	BY _____	DATE _____
	PLOTTED _____		
NOTE BOOK	GRADES CHECKED _____		
NO. _____	B.M. NOTED _____		
	STRUCTURE NOTAT'NS CHKD _____		

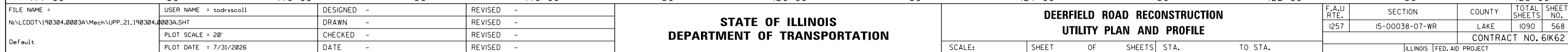
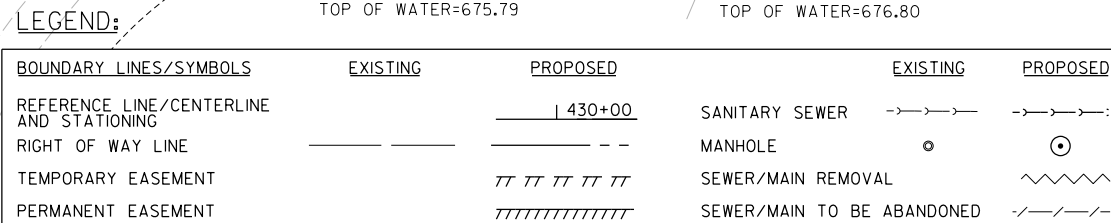


**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DEERFIELD ROAD RECONSTRUCTION UTILITY PLAN AND PROFILE

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I257	I5-00038-07-WR	LAKE	I090	567
		CONTRACT NO. 61K62		
ILLINOIS		FED. AID PROJECT		

1. ALL SERVICES ARE ASSUMED TO BE 6" UNLESS LABELLED OTHERWISE
2. NOT EVERY SERVICE OR OTHER CONNECTION MAY BE SHOWN. CONTRACTOR TO VERIFY ALL CONNECTIONS HAVE BEEN MADE BEFORE ABANDONMENT/REMOVAL OF EXISTING SEWERS.



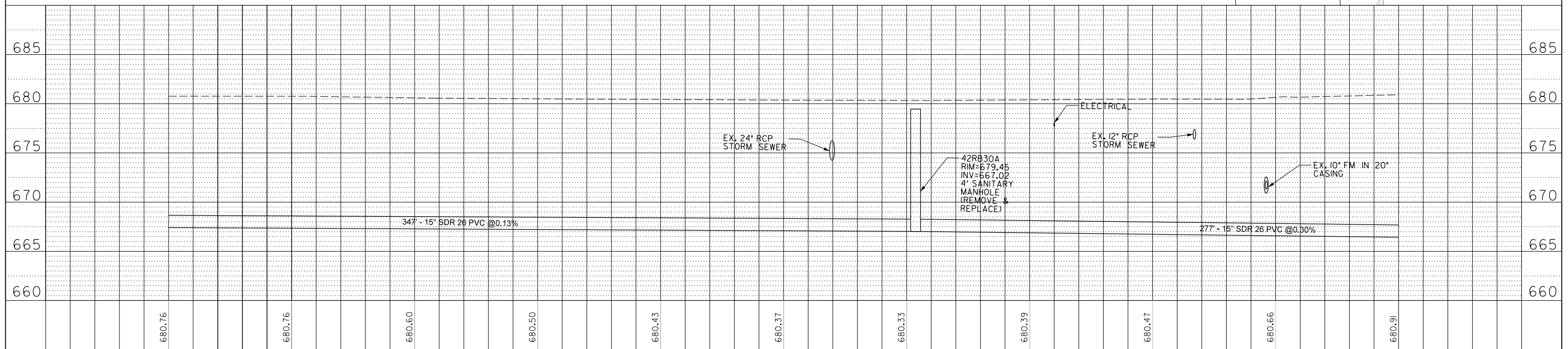
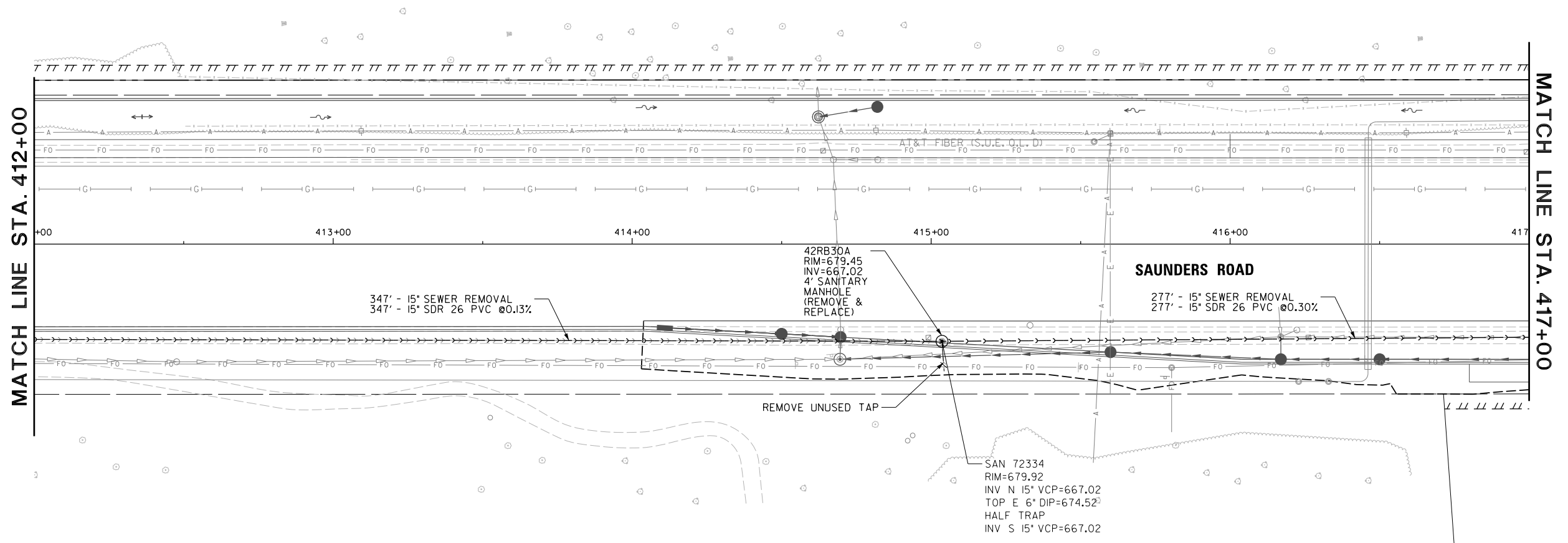
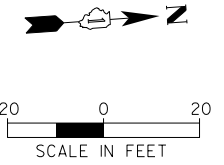
DEERFIELD ROAD RECONSTRUCTION UTILITY PLAN AND PROFILE

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1257	15-00038-07-WR	LAKE	1090	568
CONTRACT NO. 61K62				
ILLINOIS		FED. AID PROJECT		

1. ALL SERVICES ARE ASSUMED TO BE 6" UNLESS LABELLED OTHERWISE
2. NOT EVERY SERVICE OR OTHER CONNECTION MAY BE SHOWN. CONTRACTOR TO VERIFY ALL CONNECTIONS HAVE BEEN MADE BEFORE ABANDONMENT/REMOVAL OF EXISTING SEWERS.

<u>BOUNDARY LINES/SYMBOLS</u>	<u>EXISTING</u>	<u>PROPOSED</u>	<u>EXISTING</u>	<u>PROPOSED</u>
REFERENCE LINE /CENTERLINE AND STATIONING		<u> 430+00 </u>	SANITARY SEWER ->->->->	->->->->:
RIGHT OF WAY LINE	_____	_____ --	MANHOLE ○	⊙
TEMPORARY EASEMENT		// // // //	SEWER/MAIN REMOVAL	~~~~~
PERMANENT EASEMENT		/ / / / / / / / / /	SEWER/MAIN TO BE ABANDONED	-/-/-/-/-



FILE NAME =	USER NAME = todtriscoll	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DEERFIELD ROAD RECONSTRUCTION UTILITY PLAN AND PROFILE				F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N:\CDDOT\190304.0003A\Mech\UFP.22.190304.0003A.SHT	DRAWN -	REVISED -	1257						I5-00038-07-WR	LAKE	1090	569	
Default	PLOT SCALE = 28'	CHECKED -	REVISED -		CONTRACT NO. 61K62								
	PLOT DATE = 7/31/2026	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	ALIGNED		
	CHECKED		
	FILE NAME		

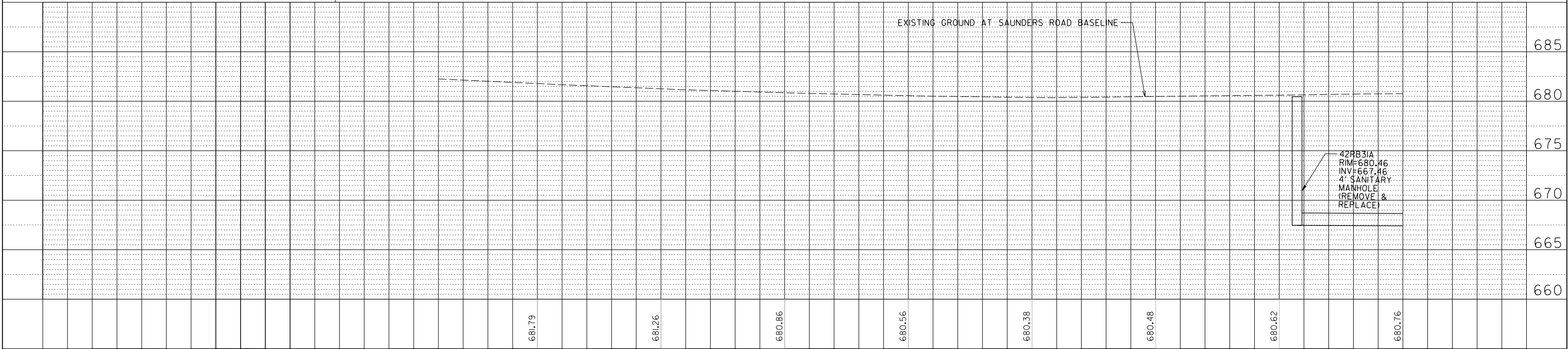
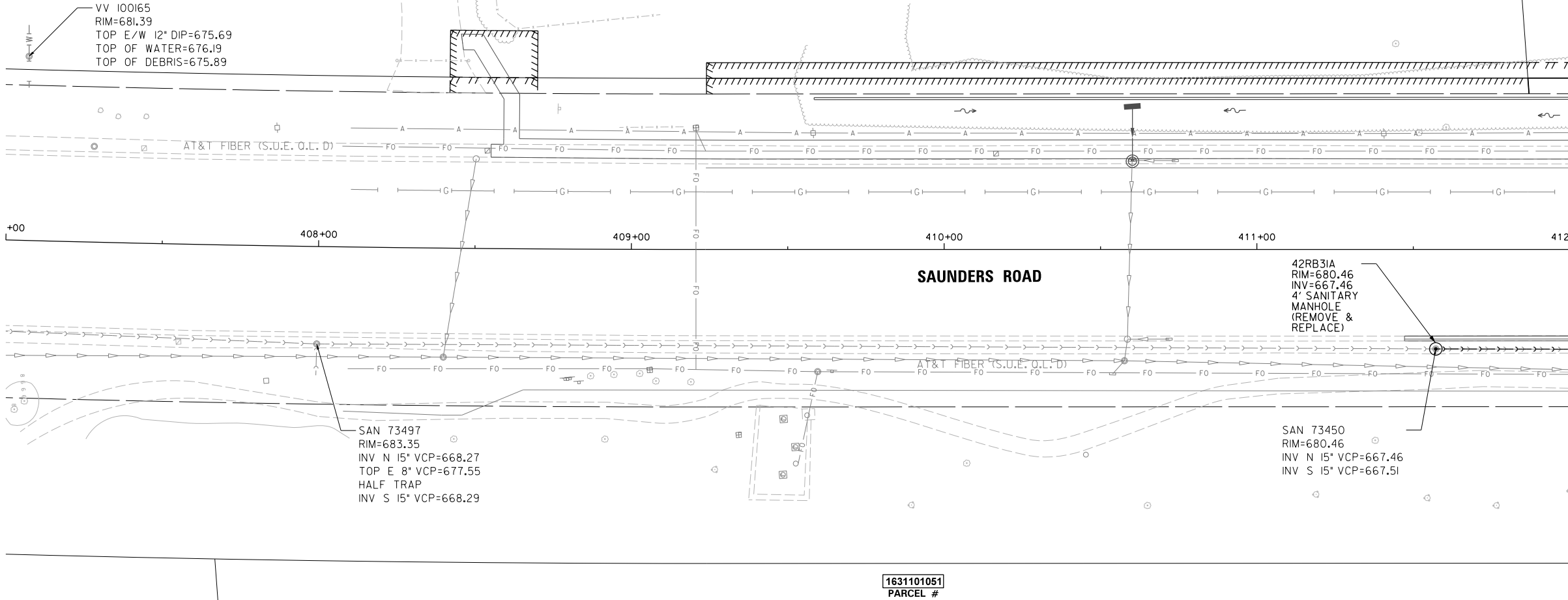
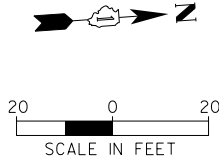
PROFILE	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	GRADES		
	CHECKED		
	STRUCTURE		
	NOTATIONS		

LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING	—————	————— 430+00		
RIGHT OF WAY LINE	—————	—————		
TEMPORARY EASEMENT				
PERMANENT EASEMENT				
			SANITARY SEWER	—————
			MANHOLE	●
			SEWER/MAIN REMOVAL	~~~~~
			SEWER/MAIN TO BE ABANDONED	-/-/-/-

NOTES:

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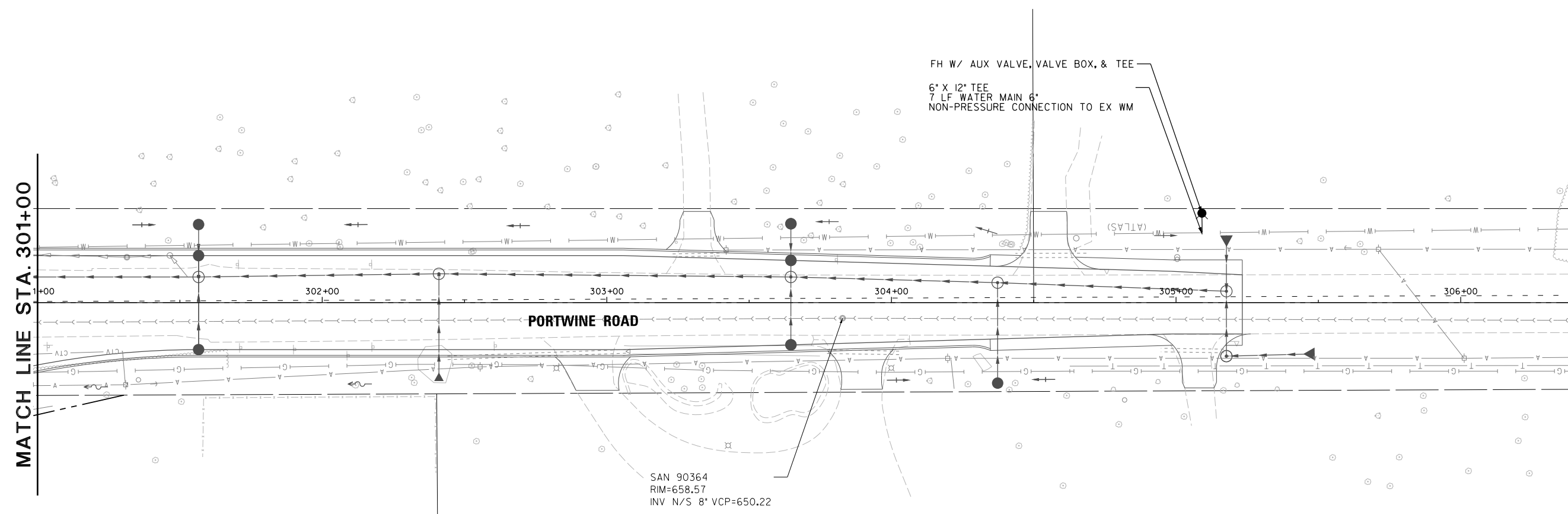
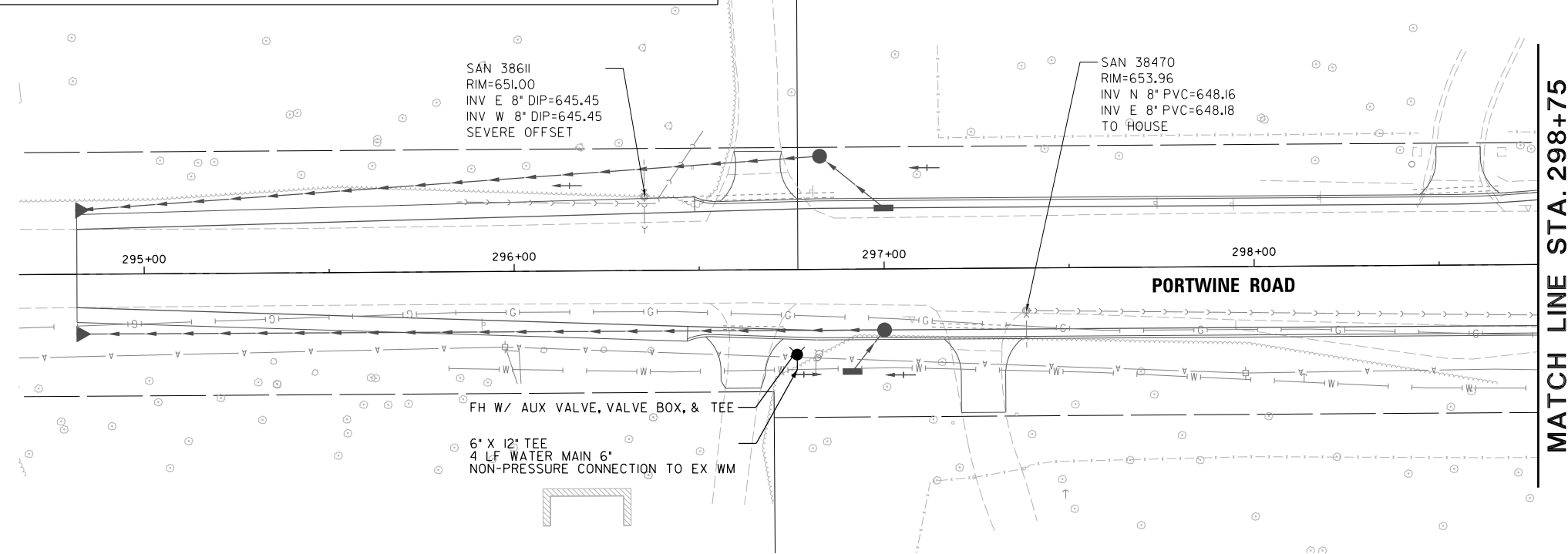
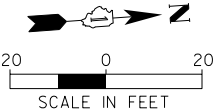


FILE NAME =	USER NAME = todricoll	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DEERFIELD ROAD RECONSTRUCTION UTILITY PLAN AND PROFILE	F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
N:\CDDOT\190304\0003A\Mech\UPP.23.190304.0003A.SHT		DRAWN -	REVISED -			I257	I5-00038-07-WR	LAKE	1090	570		
Default		PLOT SCALE = 20'	REVISED -									
		PLOT DATE = 7/31/2026	REVISED -									
					SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	CONTRACT NO. 61K62	
											ILLINOIS FED. AID PROJECT	

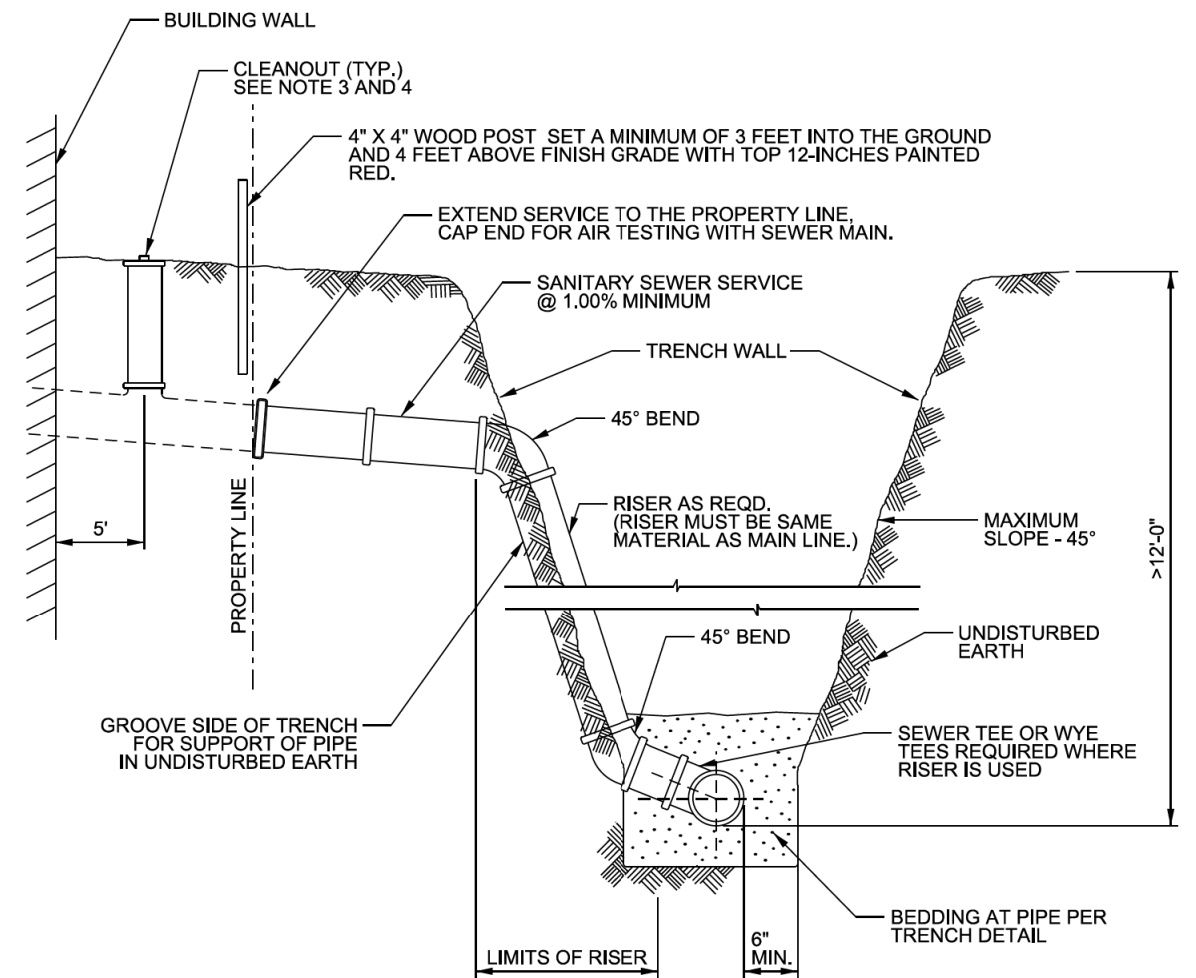
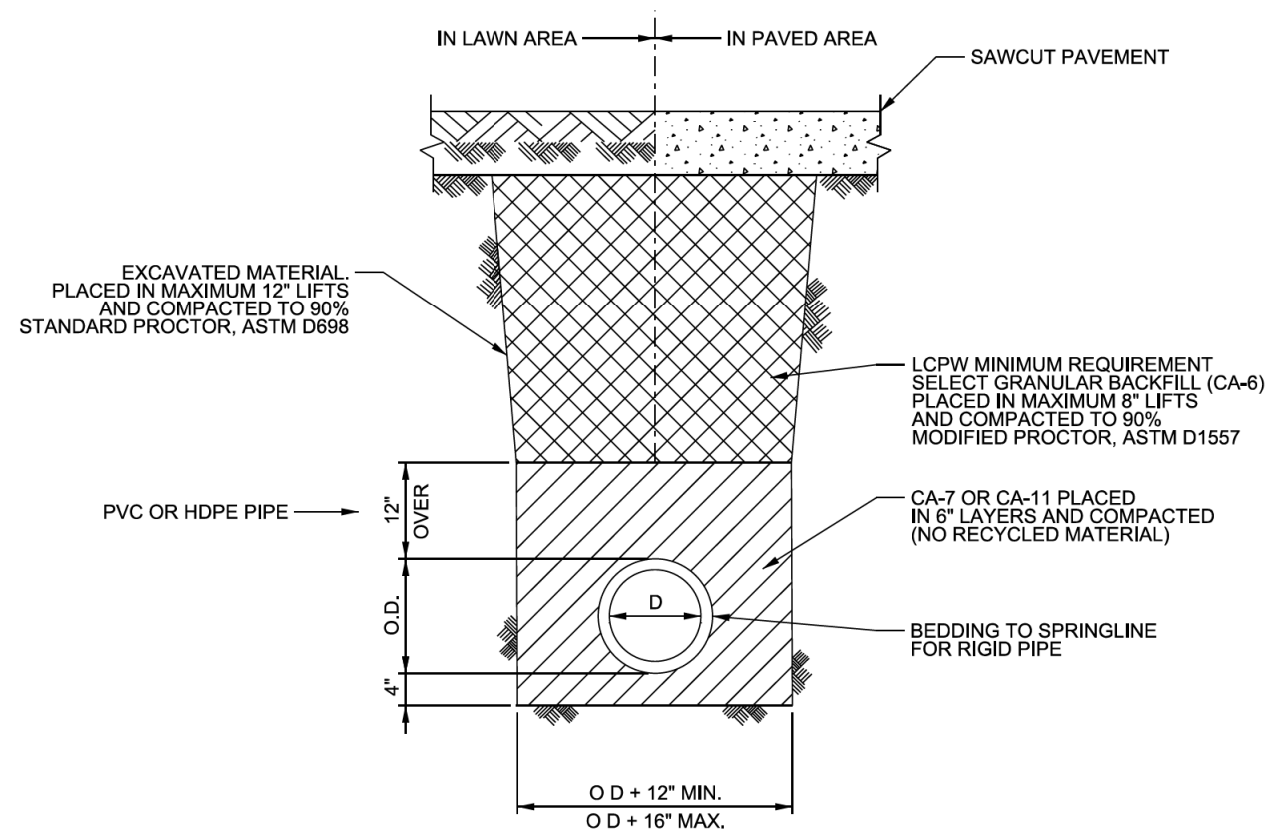
LEGEND:

BOUNDARY LINES/SYMBOLS	EXISTING	PROPOSED	EXISTING	PROPOSED
REFERENCE LINE/CENTERLINE AND STATIONING		430+00		
RIGHT OF WAY LINE	---	---		
TEMPORARY EASEMENT		TT TT TT TT TT		
PERMANENT EASEMENT		TTTTTTTTTTTT		
			SANITARY SEWER	→→→→→
			MANHOLE	○
			SEWER/MAIN REMOVAL	~~~~~
			SEWER/MAIN TO BE ABANDONED	-/-/-/-/-

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FILE NAME =	USER NAME = todricoll	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DEERFIELD ROAD RECONSTRUCTION UTILITY PLAN AND PROFILE				F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N:\C00T\190304\0003A\Mech\UPP_24_190304_0003A.SHT		DRAWN -	REVISED -						1257	15-00038-07-WR	LAKE	1090	571
	PLOT SCALE = 20'	CHECKED -	REVISED -		CONTRACT NO. 61K62								
Default	PLOT DATE = 7/31/2026	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.			
					ILLINOIS FED. AID PROJECT								



- NOTE:

1. SANITARY SEWER SERVICE RISERS TO BE CONSTRUCTED WHERE MAIN LINE SEWER DEPTH EXCEEDS 12'-0".
2. USE NON SHEAR MISSION COUPLING TO CONNECT DISSIMILAR MATERIALS
3. THERE SHALL BE AT LEAST ONE CLEANOUT ON EACH SANITARY SERVICE LINE LOCATED AT LEAST 5 FEET OUTSIDE THE BUILDING. CLEANOUTS SHALL BE INSTALLED NO MORE THAN 100 FEET APART AND AT EACH CHANGE OF HORIZONTAL DIRECTION OF 60° OR GREATER.
4. CLEANOUTS SHALL BE UNOBSTRUCTED WITH A MINIMUM 18 INCHES OF CLEARANCE.

NOTES

I. SEE SPECIAL PROVISIONS FOR PREFERRED PRODUCTS AND MANUFACTURERS.



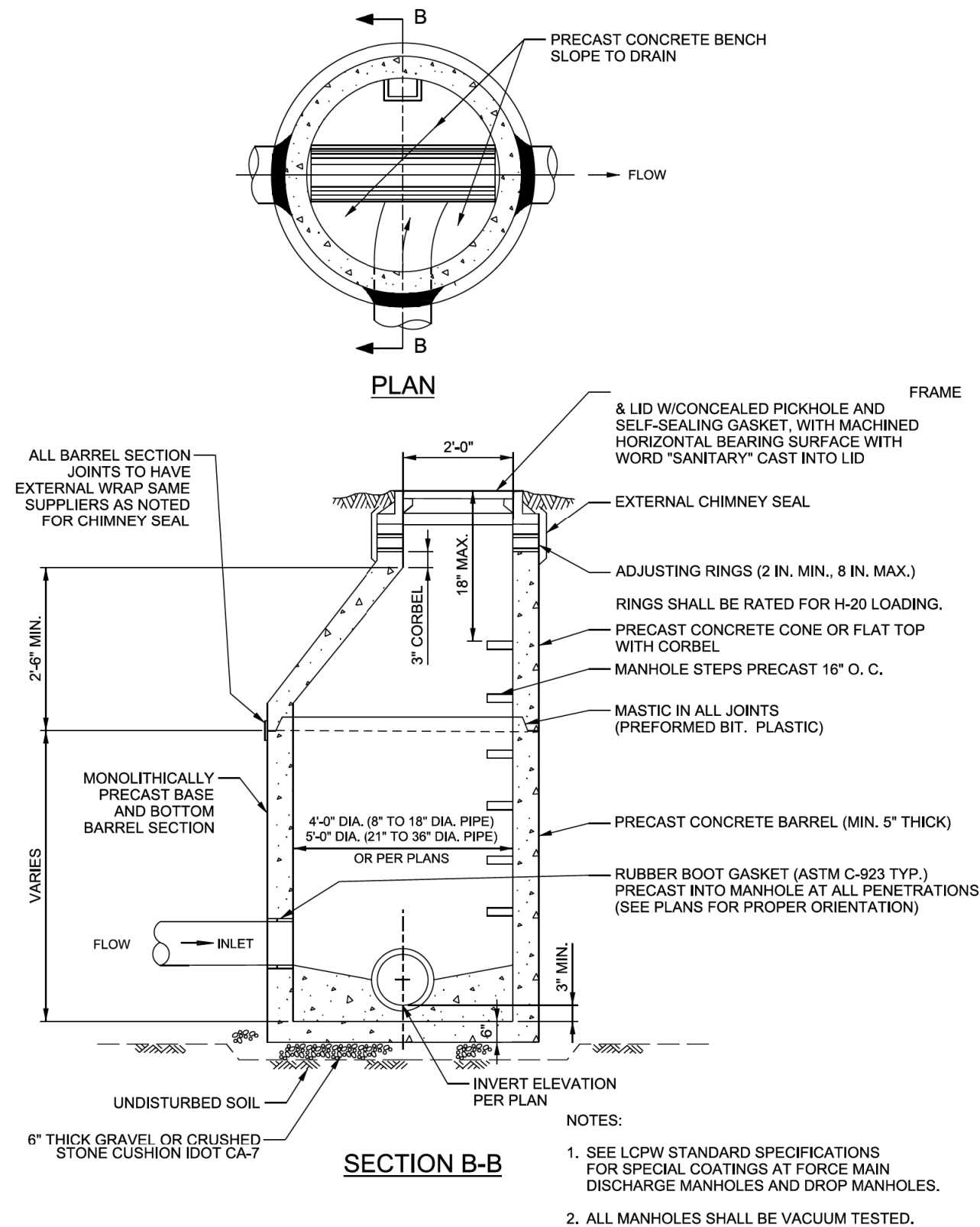
PIPE BEDDING TRENCH BACKFILL

DATE: 6/26/15	ID: 3
REVISIONS	DATE
ENG-MAIN. UPDATE	7/24/18
ENG-MAIN. UPDATE	9/20/18
ENG-MAIN. UPDATE	12/14/20



SANITARY SEWER SERVICE AND RISER

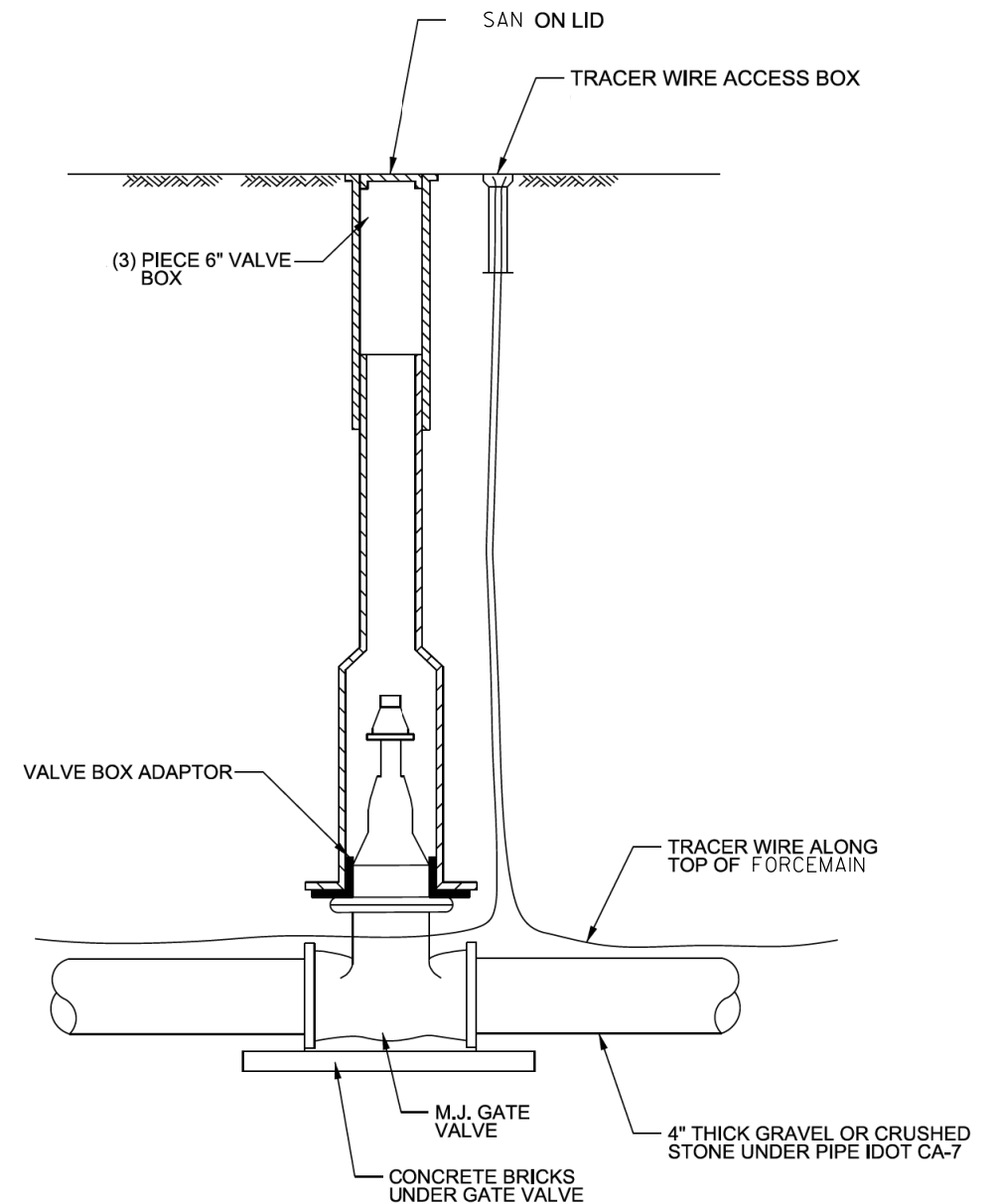
DATE: 6/26/15	ID: 10
REVISIONS	DATE
ENG-MAIN. UPDATE	8/21/18
ENG-MAIN. UPDATE	12/14/20



SANITARY MANHOLE

DATE: 6/26/15 ID: 1

REVISIONS	DATE
ENG-MAIN. UPDATE 7/24/18	
ENG-MAIN. UPDATE 12/14/20	



NOTE:

1. VALVE SHALL HAVE MEGALUG GLANDS AND STAINLESS STEEL HARDWARE
2. PROVIDE ANTI-SIEZE COMPOUND ON TRACER BOX NUT

NOTES

1. SEE SPECIAL PROVISIONS FOR PREFERRED PRODUCTS AND MANUFACTURERS.



VALVE BOX FOR SANITARY FORCEMAIN

DATE: 6/26/15 ID: 11

REVISIONS	DATE
ENG-MAIN. UPDATE 7/24/18	
ENG-MAIN. UPDATE 9/20/18	
ENG-MAIN. UPDATE 12/14/20	

FILE NAME =	USER NAME = tod-riscoll	DESIGNED JPC	REVISED -
N:\L\CDOT\190304.0003A\Mech\UDET.02.190304.0003A.SHT		DRAWN GCE	REVISED -
	PLOT SCALE = N.T.S.	CHECKED JPC	REVISED -
Default	PLOT DATE = 7/31/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

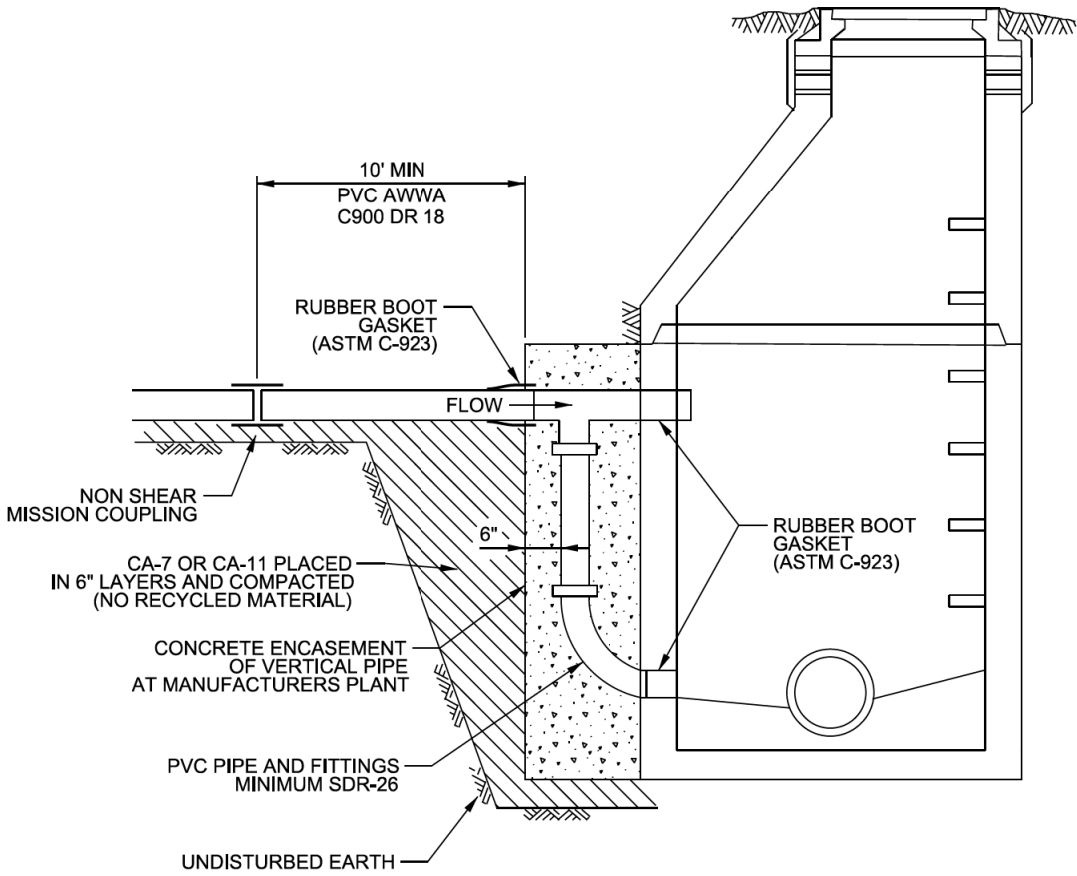
DEERFIELD ROAD RECONSTRUCTION
LCPW SANITARY SEWER DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I257	I5-00038-07-WR	LAKE	1090	573
CONTRACT NO. 61K62				
ILLINOIS FED. AID PROJECT				

NOTES:

- 1. ALL APPLICABLE NOTES FROM SANITARY MANHOLE DETAIL SHALL APPLY.
- 2. FOR INCOMING SEWER SMALLER THAN 12" USE VERTICAL PIPE OF SAME DIAMETER. FOR INCOMING SEWER 12"-18" USE 12" VERTICAL PIPE.
- 3. TO BE USED WHERE ANY SEWER ENTERS 2'-0" ABOVE LOWEST INVERT.
- 4. SEE LCPW STANDARD SPECIFICATIONS FOR APPROVED MATERIALS.
- 5. SEE LCPW STANDARD SPECIFICATIONS FOR SPECIAL COATINGS AT FORCE MAIN DISCHARGE MANHOLES AND DROP MANHOLES.

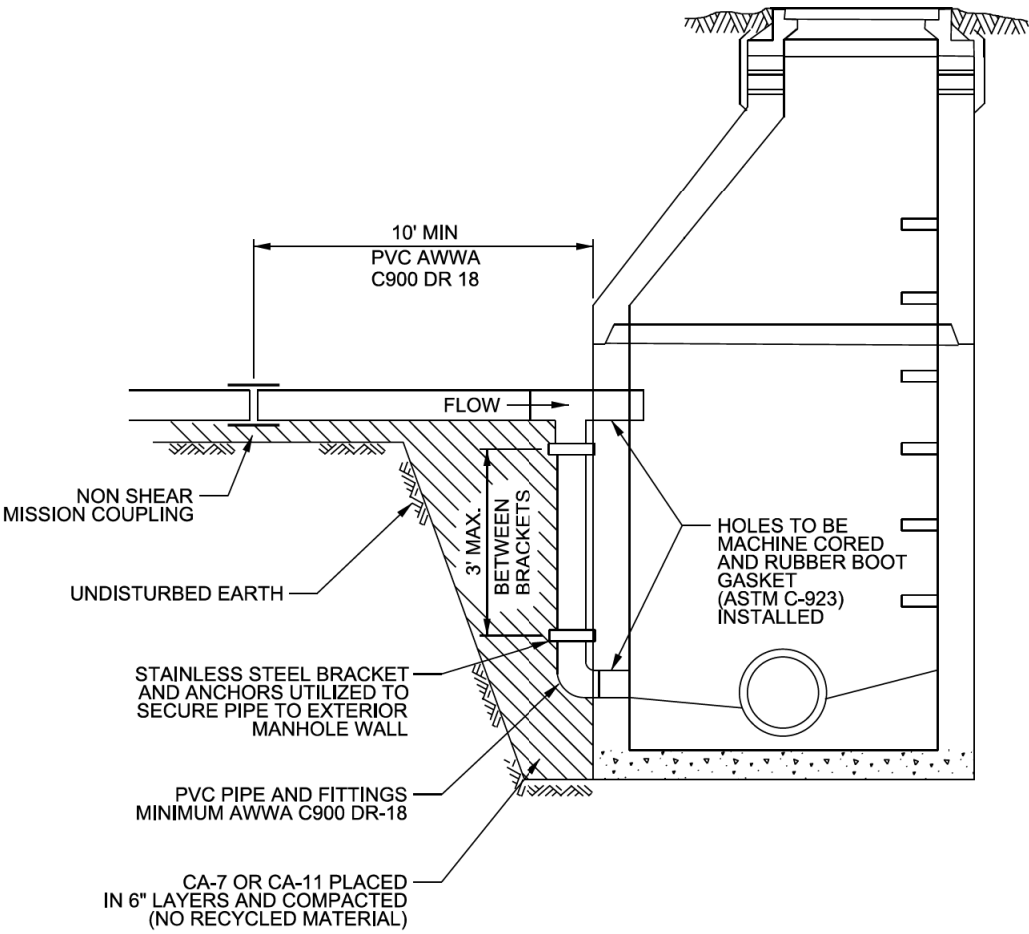


PRECAST
DROP MANHOLE
CONNECTION

DATE: 6/26/15	ID: 6
REVISIONS	DATE
ENG-MAIN, UPDATE 7/24/18	
ENG-MAIN, UPDATE 12/14/20	

NOTES:

- 1. ALL APPLICABLE NOTES FROM SANITARY MANHOLE DETAIL SHALL APPLY.
- 2. FOR INCOMING SEWER SMALLER THAN 12" USE VERTICAL PIPE OF SAME DIAMETER. FOR INCOMING SEWER 12"-18" USE 12" VERTICAL PIPE.
- 3. TO BE USED WHERE ANY SEWER ENTERS 2'-0" ABOVE LOWEST INVERT.
- 4. SEE LCPW STANDARD SPECIFICATIONS FOR APPROVED MATERIALS.
- 5. SEE LCPW STANDARD SPECIFICATIONS FOR SPECIAL COATINGS AT FORCE MAIN DISCHARGE MANHOLES AND DROP MANHOLES.



NOTES

- 1. SEE SPECIAL PROVISIONS FOR PREFERRED PRODUCTS AND MANUFACTURERS.



EXTERIOR FIELD BUILT
DROP CONNECTION

DATE: 6/26/15	ID: 7
REVISIONS	DATE
ENG-MAIN, UPDATE 7/24/18	
ENG-MAIN, UPDATE 12/14/20	

FILE NAME =	USER NAME = tod-riscoll	DESIGNED JPC	REVISED -
N:\LCOOT\190304.0003A\Mech\UDET_03.190304.0003A.SHT		DRAWN GCE	REVISED -
	PLOT SCALE = N.T.S.	CHECKED JPC	REVISED -
Default	PLOT DATE = 7/31/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

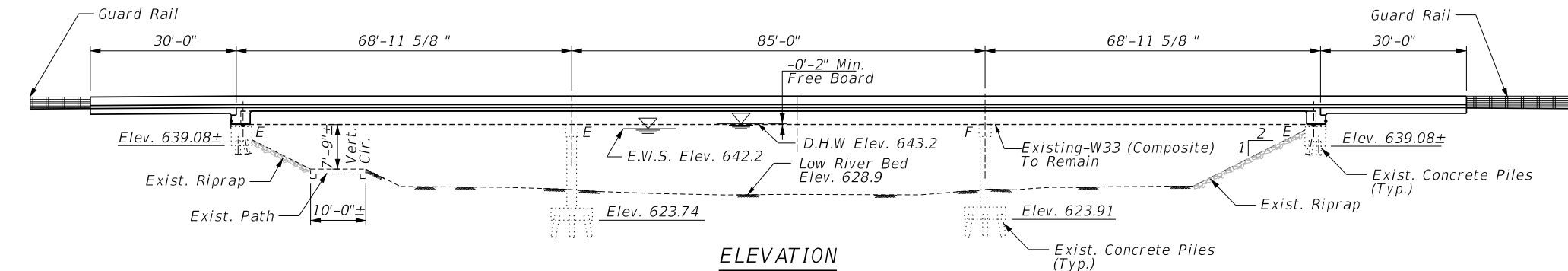
DEERFIELD ROAD RECONSTRUCTION
LCPW SANITARY SEWER DETAILS

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I257	I5-00038-07-WR	LAKE	1090	574
CONTRACT NO. 61K62				
ILLINOIS FED. AID PROJECT				

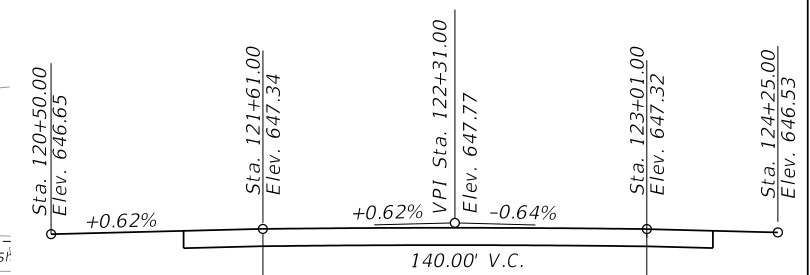
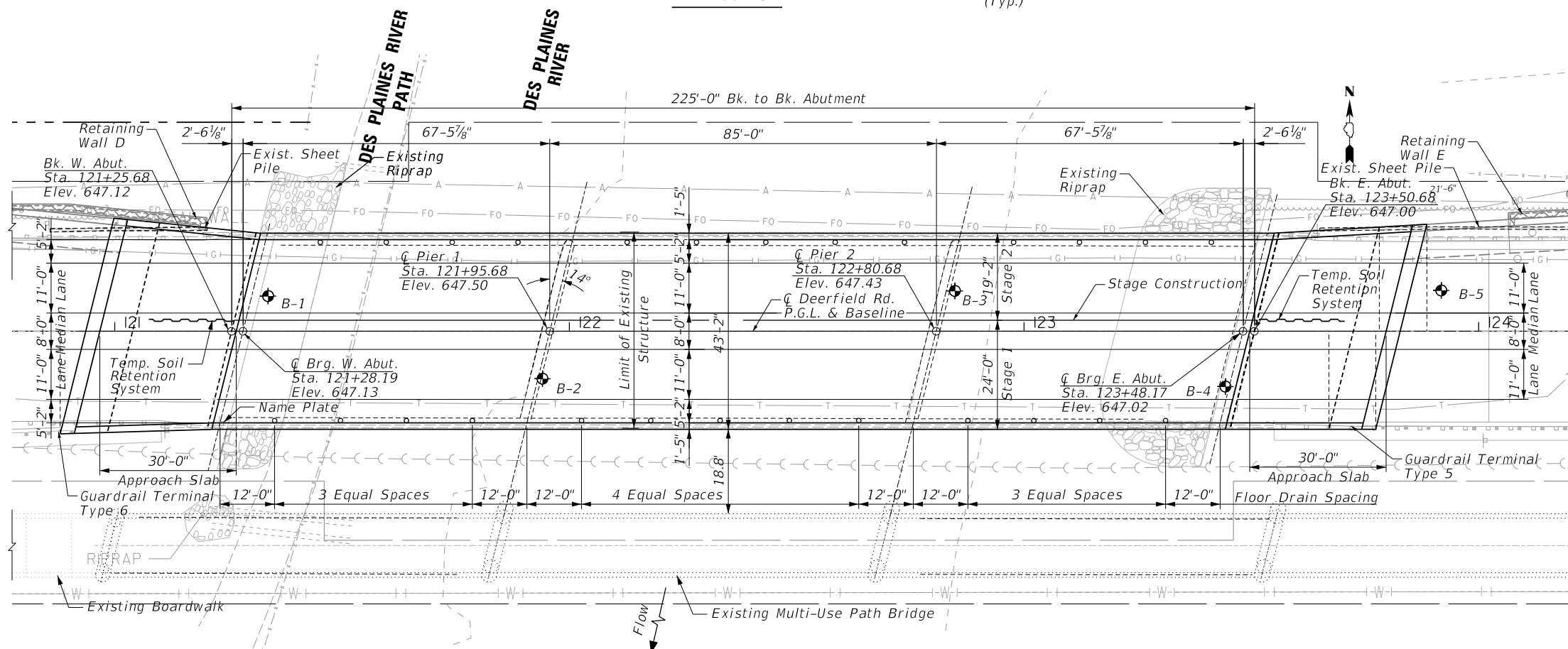
Existing structure: SN 049-0174, is a three span continuous bridge. The structure was built in 1993 under Contract C_91-521-89 after original bridge from 1930 was removed and replaced. Three span bridge has overall length of 225'-0" back to back of abutments with spans 67'-5 $\frac{7}{8}$ ", 85'-0", 67'-5 $\frac{7}{8}$ ", and out to out of 43'-2" deck. Superstructure consists of seven W33 beams spaced at 6'-2", and a 7 $\frac{1}{2}$ " concrete deck. The deck provides a 12'-0" traffic lane, an 8'-0" shoulder, and a 1'-7" parapet on each direction. The abutments are stub abutments supported on concrete piles, and pier are solid web piers supported on concrete piles. There has been no repair since original construction.

No salvage

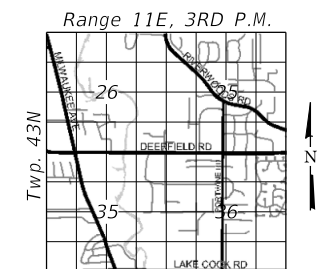


Existing Name Plate shall be
Cleaned and Relocated Next
to New Name Plate. Cost
Included with "Name Plate".

Soil Coefficient (S) = 1.2



	<i>Aerial Wires</i>
	<i>Storm Sewer</i>
	<i>Water Main</i>
	<i>Sanitary Sewer</i>
	<i>Gas Main</i>
	<i>Telephone</i>
	<i>Fiber Optic Line</i>



STRUCTURE NO. 049+0174



Najid Melasni C

07/29/2026

MAJID MOBASSERI

DATE _____

ILLINOIS REGISTRATION No. 081-005058

ILLINOIS REGISTRATION
STRUCTURAL ENGINEER

EXPIRATION DATE: 11/30/26

Drainage Area = 310 Sq. Mi Low Grade Elev. 643.9 @ Sta. 113+80									
Flood	Freq. Yr.	Q C.F.S.	Opening Ft ²		Nat. H.W.E.	Head - Ft.		Headwater Elev.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
	10	3727	1822/0	1822/0	642.2	0.0	0.0	642.2	642.2
Design	30	4827	2026/0	2026/0	643.2	0.1	0.1	643.3	643.3
Base	100	6018	2084/782	2084/556	645.0	0.1	0.1	645.1	645.1
Overtopping	+41	5157	-	2084/0	643.8	-	0.1	-	643.9
Max. Calc.	500	7511	2084/2643	2084/1602	646.6	0.1	0.1	646.7	646.7

10-Year Velocity Through Exist. Structure=1.9 fps

10-Year Velocity Through Prop. Structure=1.9 fps

Event / Limit	Design Scour Elevations (ft.)				Item 11:
State	W. Abut.	Pier 1	Pier 2	E. Abut.	
Q100	N/A	624.1	624.1	N/A	5
Q200	N/A	625.8	625.8	N/A	
Design	639.08	623.74	623.91	639.08	
Check	N/A	N/A	N/A	N/A	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FILE NAME =	USER NAME = jjezierny	DESIGNED - MM	REVISED -
N:\LCDOT\190304.0003A\Struct\01-190304.0003A-GPE.sht		DRAWN - PDR	REVISED -
Default	PLOT SCALE = 15'	CHECKED - CF	REVISED -
	PLOT DATE = 7/31/2026	DATE -	REVISED -

DEERFIELD ROAD RECONSTRUCTION DEERFIELD ROAD BRIDGE – GENERAL PLAN AND ELEVATION					F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
					1257	I5-00038-07-WR	LAKE	I090	575
					CONTRACT NO. 61K62				
SCALE:	SHEET I	OF I07	SHEETS	STA.	TO STA.				

GENERAL NOTES

1. Fasteners shall be ASTM F 3125 Grade A325 Type 1, mechanically galvanized bolts in painted areas. Bolts 3/4in. diameter, holes 13/16 in. diameter, unless otherwise noted.
2. Calculated weight of Structural Steel = 2,675 lbs,
3. All structural steel shall be AASHTO M270 Grade 50.
4. No field welding is permitted except as specified in the contract documents.
5. Reinforcement bars designated (E) shall be epoxy coated.
6. Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose detrimental foreign material shall be removed from the surfaces in contact with concrete (SSPC SP3 standards). Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be paid for according to Article 109.04 of the Standard Specifications. As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding ¼ in. deep shall be identified and reported to the Bureau of Bridges & Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.
7. Slipforming of the parapets is not allowed.
8. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of ⅛ in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
9. The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M270 Grade 50.
10. Two ⅛ in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
11. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.
12. Granular Backfill behind the abutments shall be compacted according to Article 205.06 of the Standard Specifications.
13. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
14. Plan dimensions and details relative to the existing structure have been taken from existing plans are subject to nominal construction variations. The Contactor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not because for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
15. Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.

16. Existing reinforcement shall be cleaned, straightened and incorporated into the new construction. Cost included with Concrete Removal.
17. Cleaning and painting of the existing structural steel shall be as specified in the Special Provision for "Cleaning and Painting Existing Steel Structures". All beams, bearings and other structural steel within (10) ft (measured along the beam) of either side of deck joints shall be cleaned per Near White Blast Cleaning SSPC-SP10. The exterior surfaces and bottom of the bottom flange of the fascia beams shall be cleaned per Commercial Grade Power Tool Cleaning SSPC- SP15. The designated areas cleaned per Near White Blast Cleaning and per Commercial Grade Power Tool Cleaning shall be painted according to the requirements of Organic Zinc-Rich Primer/Epoxy Intermediate Coat/Urethane Topcoat (0Z/E/U). The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Reddish Brown (Munsell No 2.5YR3/4.
18. Containment of cleaning residue is required to control nuisance dust. See special provisions.
19. No in-stream construction activities shall be allowed in the Des Plaines River. Contractor shall not place cofferdam, other fill material (temporary or permanent), or perform in-stream construction activities within the jurisdictional limits of the Des Plaines River without prior approval from the US Army Corps of Engineers (Section 404 Clean Water Act Permit) and the Illinois Department of Natural Resources (Incidental Take Authorization).
20. All utilities attached to the structure that conflict with proposed construction activities shall be temporarily relocated or supported. The design of any temporary support shall be the resonsibiliity of the utility owner and shall be completed prior to construction. The utility owner shall be responsible for the protection of the existing utility during construction operations and all costs associated with the removal, relocation, temporary support design and construction, and additional protection of the utilities shall be at the expense of the utility owner.

INDEX OF STRUCTURAL SHEETS

SHEET

TITLE

SHEET

TITLE

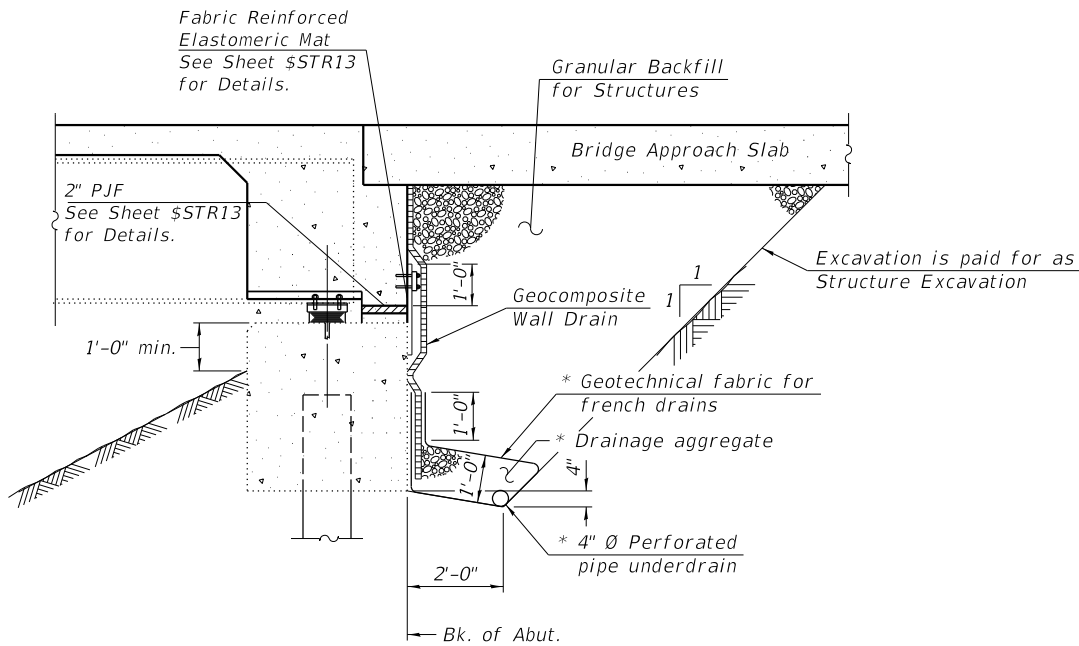
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- 679 STATION 194+00.00 - BORING LOGS

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Default	PLOT DATE = 7/31/2026					SCALE:	SHEET	OF 107 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

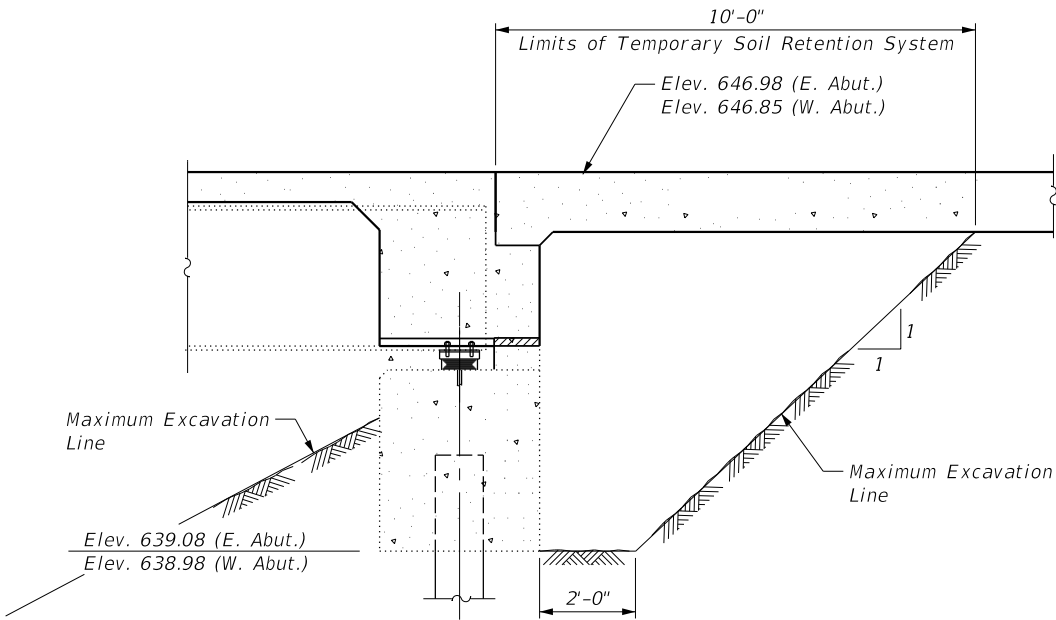
TOTAL BILL OF MATERIAL - BRIDGE

PAY ITEM NO.	ITEM	UNIT	SUB	SUPER	TOTAL	RECORD QUANTITY
20900110	Porous Granular Backfill	Cu Yd	170		170	
50102400	Concrete Removal	Cu Yd	25		25	
50104720	Removal of Existing Concrete Deck	Each		1	1	
50157300	Protective Shield	Sq Yd		765	765	
50200100	Structure Excavation	Cu Yd	170		170	
50300100	Floor Drains	Each		26	26	
50300225	Concrete Structure	Cu Yd	29.2		29.2	
50300255	Concrete Superstructure	Cu Yd		355.3	355.3	
50300260	Bridge Deck Grooving	Sq Yd		1,235	1,235	
50300300	Protective Coat	Sq Yd		1,595	1,595	
50301350	Concrete Superstructure (Approach Slab)	Cu Yd		123.8	123.8	
50500505	Stud Shear Connectors	Each		1,428	1,428	
50606701	Cleaning and Painting Structural Steel, Location 1	L Sum		1	1	
50800205	Reinforcement Bars, Epoxy Coated	Pound	5,125	125,635	130,760	
50800515	Bar Splicer	Each	80	797	877	
51500100	Name Plates	Each		1	1	
52100010	Elastomeric Bearing Assembly, Type I	Each		14	14	
52100020	Elastomeric Bearing Assembly, Type II	Each		7	7	
52100520	Anchor Bolts , 1"	Each		42	42	
52200020	Temporary Soil Retention System	Sq Ft	95		95	
59100100	Geocomposite Wall Drain	Sq Yd	65		65	
60146304	Pipe Underdrains for Structures, 4"	Foot	140		140	
X5017307	Protective Shield (Special)	Sq Yd		305	305	
X5080530	Bar Terminators	Each		338	338	
Z0001899	Jack and Remove Existing Bearing	Each		21	21	
Z0004552	Approach Slab Removal	Sq Yd		265	265	
Z0073410	Temporary Support System, Location 1	Each		1	1	
Z0073420	Temporary Support System, Location 2	Each		1	1	



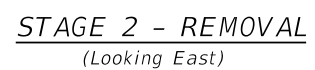
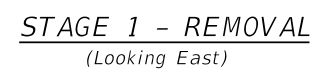
SECTION THRU SEMI INTEGRAL ABUTMENT
(Horiz. dim. at Rt. L's)

*Included in the cost of Pipe Underdrains for Structures.

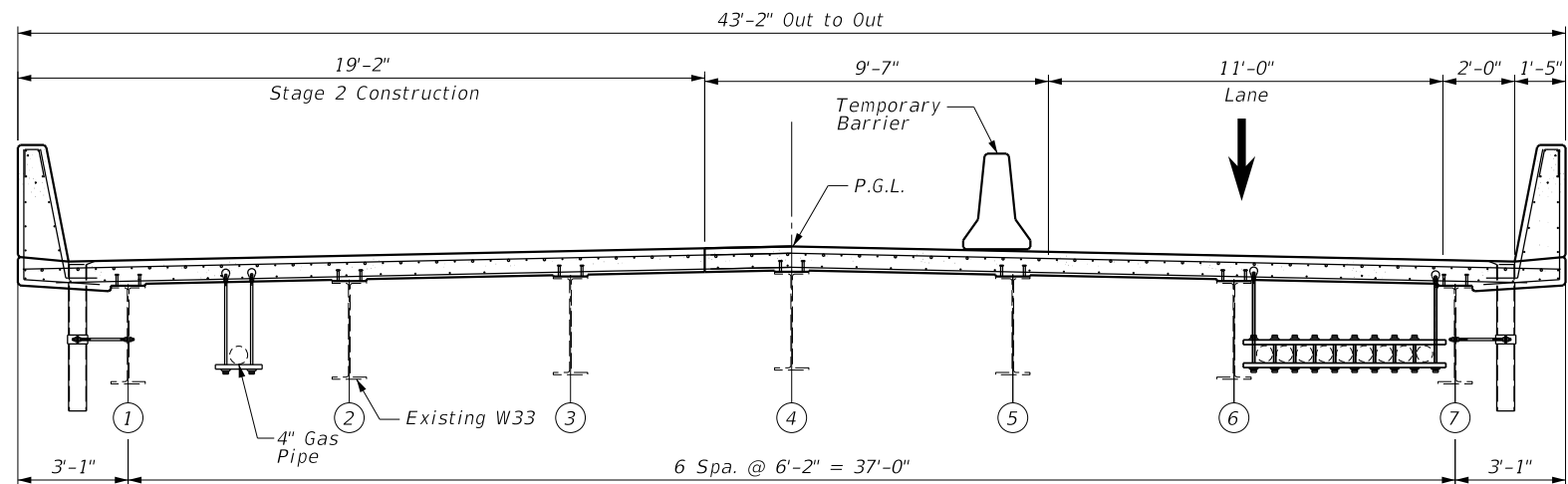


TEMPORARY SOIL RETENTION SYSTEM DETAIL

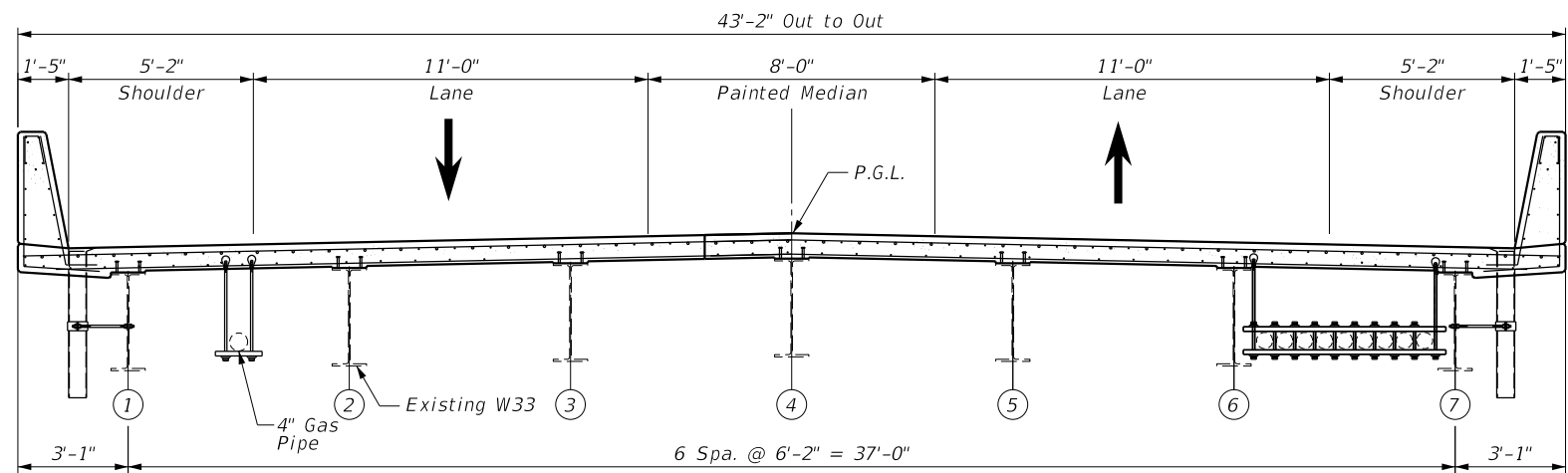
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N:\C00T\190304\0003A\Struct\03-190304-0003A-GNotes-02.sht		DRAWN - PDR	REVISED -			I257	I5-00038-07-WR	LAKE	1090	577					
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	PLOT DATE = 7/31/2026	DATE -	REVISED -			ILLINOIS FED. AID PROJECT									
SCALE:						SHEET	OF 107 SHEETS	STA.	TO STA.						



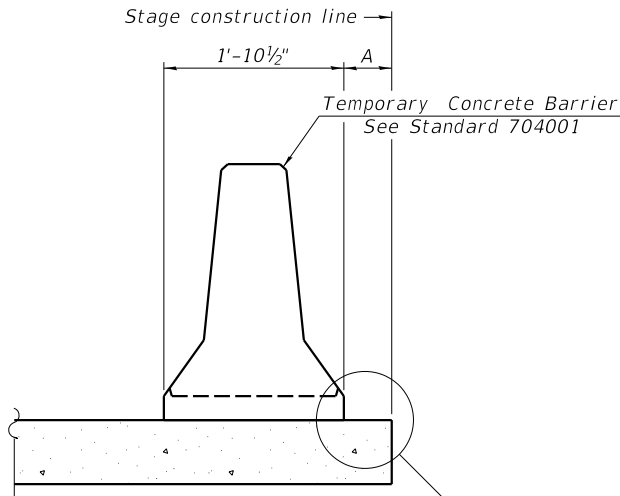
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N:\LC00T\190304.0003A\Struct\04-190304.0003A-MOT-Stage1.sht	DRAWN - PDR	REVISED -	I257					15-00038-07-WR	LAKE	1090	578	
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Default	PLOT DATE = 7/31/2026	DATE -	REVISED -		SCALE:	SHEET	OF 107 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		



STAGE 2 - CONSTRUCTION
(Looking East)

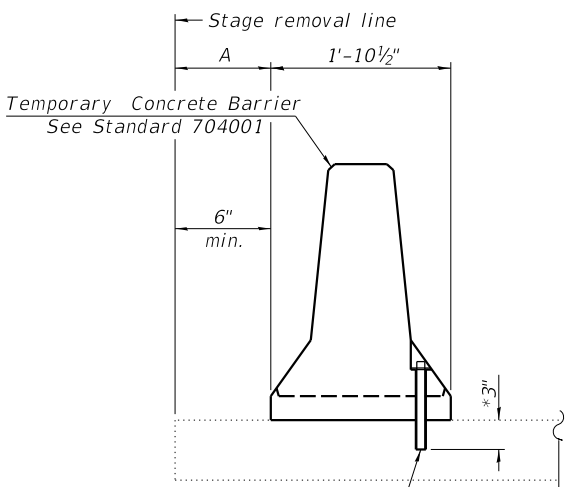


FINAL CROSS SECTION
(Looking East)



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I. No restraint is required when "A" is greater than 3'-1".

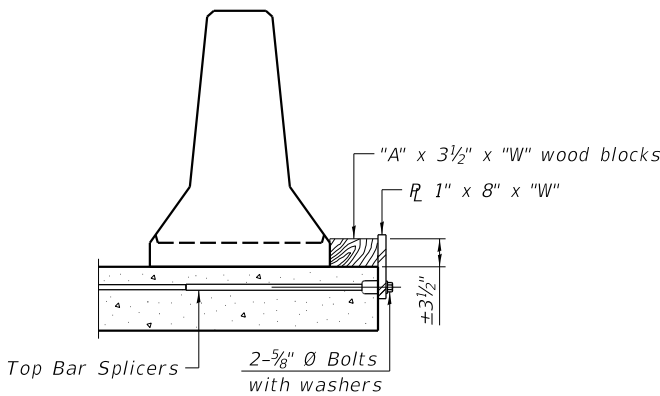
NEW SLAB



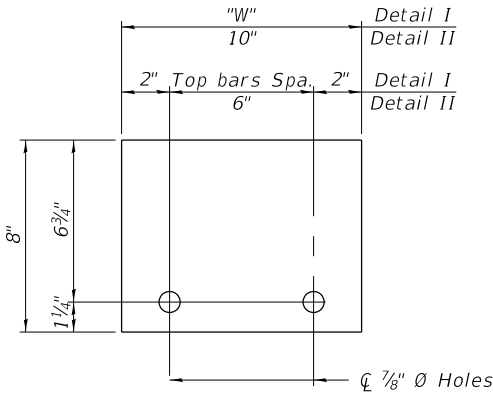
Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

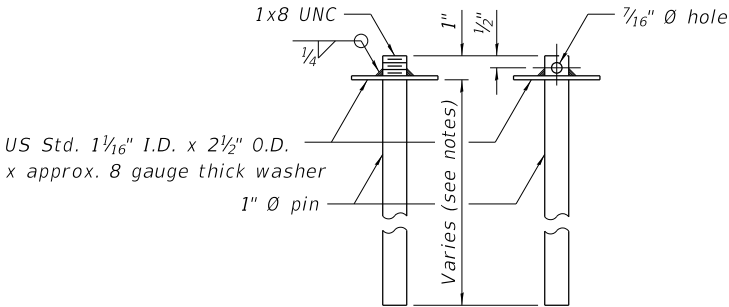
SECTIONS THRU SLAB



DETAIL I



STEEL RETAINER 1" x 8" x "W"
(Detail I)



RESTRAINING PIN

Notes:
Cost of retainer assembly is included with Temporary Concrete Barrier.
A retainer assembly shall be located at the approximate C of each temporary concrete barrier.
The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured.
When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate.
For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27

10-12-2021

FILE NAME =	USER NAME = jjezierny	DESIGNED - MM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DEERFIELD ROAD RECONSTRUCTION TEMPORARY BARRIER		F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Default	PLOT SCALE = 1'	CHECKED - CF	REVISED -				CONTRACT NO. 6IK62				
	PLOT DATE = 7/31/2026	DATE -	REVISED -				SCALE:	SHEET	OF 107 SHEETS	STA.	TO STA.

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	121+30.29	-18.50	646.78	646.78
☒ Brg. W. Abut.	121+32.80	-18.50	646.79	646.79
A	121+42.80	-18.50	646.85	646.89
B	121+52.80	-18.50	646.92	646.97
C	121+62.80	-18.50	646.98	647.04
D	121+72.80	-18.50	647.03	647.08
E	121+82.80	-18.50	647.08	647.11
F	121+92.80	-18.50	647.12	647.12
☒ Pier 1	122+00.29	-18.50	647.14	647.14
G	122+10.29	-18.50	647.16	647.18
H	122+20.29	-18.50	647.18	647.21
I	122+30.29	-18.50	647.18	647.24
J	122+40.29	-18.50	647.17	647.25
K	122+50.29	-18.50	647.16	647.23
L	122+60.29	-18.50	647.14	647.19
M	122+70.29	-18.50	647.11	647.13
N	122+80.29	-18.50	647.07	647.07
☒ Pier 2	122+85.29	-18.50	647.04	647.04
O	122+95.29	-18.50	646.99	647.00
P	123+05.29	-18.50	646.92	646.96
Q	123+15.29	-18.50	646.86	646.91
R	123+25.29	-18.50	646.80	646.86
S	123+35.29	-18.50	646.73	646.78
T	123+45.29	-18.50	646.67	646.69
☒ Brg. E. Abut.	123+52.78	-18.50	646.62	646.62
Bk. E. Abut.	123+55.29	-18.50	646.60	646.60

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	121+28.76	-12.33	646.89	646.89
☒ Brg. W. Abut.	121+31.27	-12.33	646.90	646.90
A	121+41.27	-12.33	646.97	647.00
B	121+51.27	-12.33	647.03	647.08
C	121+61.27	-12.33	647.09	647.15
D	121+71.27	-12.33	647.15	647.20
E	121+81.27	-12.33	647.20	647.22
F	121+91.27	-12.33	647.24	647.24
☒ Pier 1	121+98.76	-12.33	647.26	647.26
G	122+08.76	-12.33	647.28	647.30
H	122+18.76	-12.33	647.30	647.34
I	122+28.76	-12.33	647.30	647.36
J	122+38.76	-12.33	647.30	647.37
K	122+48.76	-12.33	647.29	647.36
L	122+58.76	-12.33	647.27	647.32
M	122+68.76	-12.33	647.23	647.26
N	122+78.76	-12.33	647.20	647.20
☒ Pier 2	122+83.76	-12.33	647.17	647.17
O	122+93.76	-12.33	647.12	647.13
P	123+03.76	-12.33	647.06	647.09
Q	123+13.76	-12.33	646.99	647.05
R	123+23.76	-12.33	646.93	646.99
S	123+33.76	-12.33	646.87	646.92
T	123+43.76	-12.33	646.80	646.83
☒ Brg. E. Abut.	123+51.25	-12.33	646.75	646.75
Bk. E. Abut.	123+53.76	-12.33	646.74	646.74

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	121+27.22	-6.17	647.00	647.00
☒ Brg. W. Abut.	121+29.73	-6.17	647.02	647.02
A	121+39.73	-6.17	647.08	647.11
B	121+49.73	-6.17	647.14	647.20
C	121+59.73	-6.17	647.20	647.26
D	121+69.73	-6.17	647.26	647.31
E	121+79.73	-6.17	647.31	647.34
F	121+89.73	-6.17	647.35	647.36
☒ Pier 1	121+97.22	-6.17	647.38	647.38
G	122+07.22	-6.17	647.40	647.42
H	122+17.22	-6.17	647.42	647.46
I	122+27.22	-6.17	647.43	647.49
J	122+37.22	-6.17	647.42	647.50
K	122+47.22	-6.17	647.41	647.48
L	122+57.22	-6.17	647.39	647.44
M	122+67.22	-6.17	647.36	647.39
N	122+77.22	-6.17	647.33	647.33
☒ Pier 2	122+82.22	-6.17	647.30	647.30
O	122+92.22	-6.17	647.25	647.26
P	123+02.22	-6.17	647.19	647.22
Q	123+12.22	-6.17	647.13	647.18
R	123+22.22	-6.17	647.06	647.12
S	123+32.22	-6.17	647.00	647.05
T	123+42.22	-6.17	646.93	646.96
☒ Brg. E. Abut.	123+49.71	-6.17	646.89	646.89
Bk. E. Abut.	123+52.22	-6.17	646.87	646.87

STAGE CONSTRUCTION

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	121+26.28	-2.42	647.07	647.07
☒ Brg. W. Abut.	121+28.79	-2.42	647.09	647.09
A	121+38.79	-2.42	647.15	647.18
B	121+48.79	-2.42	647.21	647.27
C	121+58.79	-2.42	647.27	647.33
D	121+68.79	-2.42	647.33	647.38
E	121+78.79	-2.42	647.38	647.41
F	121+88.79	-2.42	647.43	647.43
☒ Pier 1	121+96.28	-2.42	647.45	647.45
G	122+06.28	-2.42	647.48	647.49
H	122+16.28	-2.42	647.49	647.53
I	122+26.28	-2.42	647.50	647.56
J	122+36.28	-2.42	647.50	647.57
K	122+46.28	-2.42	647.49	647.56
L	122+56.28	-2.42	647.47	647.52
M	122+66.28	-2.42	647.44	647.47
N	122+76.28	-0.00	647.40	647.41
☒ Pier 2	122+81.28	-2.42	647.38	647.38
O	122+91.28	-2.42	647.33	647.34
P	123+01.28	-2.42	647.27	647.30
Q	123+11.28	-2.42	647.21	647.26
R	123+21.28	-2.42	647.14	647.20
S	123+31.28	-2.42	647.08	647.13
T	123+41.28	-2.42	647.02	647.04
☒ Brg. E. Abut.	123+48.77	-2.42	646.97	646.97
Bk. E. Abut.	123+51.28	-2.42	646.95	646.95

BEAM 4 & PGL

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	121+25.68	0.00	647.12	647.12
☒ Brg. W. Abut.	121+28.19	0.00	647.13	647.13
A	121+38.19	0.00	647.19	647.23
B	121+48.19	0.00	647.26	647.31
C	121+58.19	0.00	647.32	647.38
D	121+68.19	0.00	647.38	647.43
E	121+78.19	0.00	647.43	647.46
F	121+88.19	0.00	647.47	647.48
☒ Pier 1	121+95.68	0.00	647.50	647.50
G	122+05.68	0.00	647.52	647.54
H	122+15.68	0.00	647.54	647.58
I	122+25.68	0.00	647.55	647.61
J	122+35.68	0.00	647.55	647.62
K	122+45.68	0.00	647.54	647.61
L	122+55.68	0.00	647.52	647.57
M	122+65.68	0.00	647.49	647.52
N	122+75.68	0.00	647.46	647.46
☒ Pier 2	122+80.68	0.00	647.43	647.43
O	122+90.68	0.00	647.38	647.39
P	123+00.68	0.00	647.32	647.36
Q	123+10.68	0.00	647.26	647.31
R	123+20.68	0.00	647.20	647.26
S	123+30.68	0.00	647.13	647.18
T	123+40.68	0.00	647.07	647.09
☒ Brg. E. Abut.	123+48.17	0.00	647.02	647.02
Bk. E. Abut.	123+50.68	0.00	647.00	647.00

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	121+24.14	6.17	646.98	646.98
☒ Brg. W. Abut.	121+26.65	6.17	646.99	646.99
A	121+36.65	6.17	647.05	647.09
B	121+46.65	6.17	647.12	647.17
C	121+56.65	6.17	647.18	647.24
D	121+66.65	6.17	647.24	647.29
E	121+76.65	6.17	647.29	647.32
F	121+86.65	6.17	647.33	647.34
☒ Pier 1	121+94.14	6.17	647.36	647.36
G	122+04.14	6.17	647.39	647.40
H	122+14.14	6.17	647.41	647.44
I	122+24.14	6.17	647.42	647.48
J	122+34.14	6.17	647.42	647.49
K	122+44.14	6.17	647.41	647.48
L	122+54.14	6.17	647.39	647.44
M	122+64.14	6.17	647.37	647.39
N	122+74.14	6.17	647.33	647.34
☒ Pier 2	122+79.14	6.17	647.31	647.31
O	122+89.14	6.17	647.26	647.27
P	122+99.14	6.17	647.20	647.23
Q	123+09.14	6.17	647.14	647.19
R	123+19.14	6.17	647.07	647.14
S	123+29.14	6.17	647.01	647.06
T	123+39.14	6.17	646.95	646.97
☒ Brg. E. Abut.	123+46.63	6.17	646.90	646.90
Bk. E. Abut.	123+49.14	6.17	646.88	646.88

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	121+22.60	12.33	646.84	646.84
⌒ Brg. W. Abut.	121+25.11	12.33	646.86	646.86
A	121+35.11	12.33	646.92	646.95
B	121+45.11	12.33	646.98	647.04
C	121+55.11	12.33	647.04	647.04
D	121+65.11	12.33	647.11	647.15
E	121+75.11	12.33	647.16	647.19
F	121+85.11	12.33	647.20	647.21
⌒ Pier 1	121+92.60	12.33	647.23	647.23
G	122+02.60	12.33	647.26	647.27
H	122+12.60	12.33	647.28	647.32
I	122+22.60	12.33	647.29	647.35
J	122+32.60	12.33	647.29	647.37
K	122+42.60	12.33	647.29	647.36
L	122+52.60	12.33	647.27	647.32
M	122+62.60	12.33	647.25	647.27
N	122+72.60	12.33	647.21	647.22
⌒ Pier 2	122+77.60	12.33	647.19	647.19
O	122+87.60	12.33	647.14	647.16
P	122+97.60	12.33	647.09	647.12
Q	123+07.60	12.33	647.02	647.08
R	123+17.60	12.33	646.96	647.02
S	123+27.60	12.33	646.90	646.95
T	123+37.60	12.33	646.83	646.86
⌒ Brg. E. Abut.	123+45.09	12.33	646.78	646.78
Bk. E. Abut.	123+47.60	12.33	646.77	646.77

BEAM 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	121+21.07	18.50	647.17	646.71
⌒ Brg. W. Abut.	121+23.58	18.50	647.19	646.73
A	121+33.58	18.50	647.25	646.82
B	121+43.58	18.50	647.31	646.91
C	121+53.58	18.50	647.38	646.97
D	121+63.58	18.50	647.44	647.02
E	121+73.58	18.50	647.50	647.06
F	121+83.58	18.50	647.56	647.08
⌒ Pier 1	121+91.07	18.50	647.60	647.10
G	122+01.07	18.50	647.65	647.15
H	122+11.07	18.50	647.69	647.19
I	122+21.07	18.50	647.72	647.23
J	122+31.07	18.50	647.74	647.24
K	122+41.07	18.50	647.75	647.23
L	122+51.07	18.50	647.75	647.20
M	122+61.07	18.50	647.75	647.15
N	122+71.07	18.50	647.73	647.10
⌒ Pier 2	122+76.07	18.50	647.72	647.08
O	122+86.07	18.50	647.69	647.04
P	122+96.07	18.50	647.65	647.01
Q	123+06.07	18.50	647.61	646.96
R	123+16.07	18.50	647.55	646.91
S	123+26.07	18.50	647.49	646.83
T	123+36.07	18.50	647.42	646.74
⌒ Brg. E. Abut.	123+43.56	18.50	647.37	646.67
Bk. E. Abut.	123+46.07	18.50	647.36	646.66

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Pavement	121+02.50	-23.21	646.51
A	121+12.24	-22.19	646.59
B	121+21.99	-21.18	646.67
E. End W. Appr. Pavement	121+31.74	-20.17	646.75
W. End E. Appr. Pavement	123+54.68	-20.17	646.58
C	123+64.82	-20.75	646.50
D	123+74.97	-21.32	646.42
E. End E. Appr. Pavement	123+85.11	-21.92	646.35

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Pavement	121+00.45	-15.00	646.66
A	121+10.45	-15.00	646.72
B	121+20.45	-15.00	646.78
E. End W. Appr. Pavement	121+30.45	-15.00	646.85
W. End E. Appr. Pavement	123+53.40	-15.00	646.69
C	123+63.39	-15.00	646.62
D	123+73.39	-15.00	646.56
E. End E. Appr. Pavement	123+83.40	-15.00	646.49

NORTH EDGE OF MEDIAN

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Pavement	120+97.61	-3.61	646.87
A	121+07.65	-3.77	646.93
B	121+17.69	-3.92	646.99
E. End W. Appr. Pavement	121+27.71	-4.00	647.05
W. End E. Appr. Pavement	123+50.65	-4.00	646.92
C	123+60.65	-4.00	646.86
D	123+70.65	-4.00	646.80
E. End E. Appr. Pavement	123+80.65	-4.00	646.73

P.G.L. & BASELINE

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Pavement	120+96.71	0.00	646.94
A	121+06.71	0.00	647.00
B	121+16.71	0.00	647.06
E. End W. Appr. Pavement	121+26.71	0.00	647.12
W. End E. Appr. Pavement	123+49.65	0.00	647.01
C	123+59.65	0.00	646.95
D	123+69.65	0.00	646.88
E. End E. Appr. Pavement	123+79.65	0.00	646.82

SOUTH EDGE OF MEDIAN

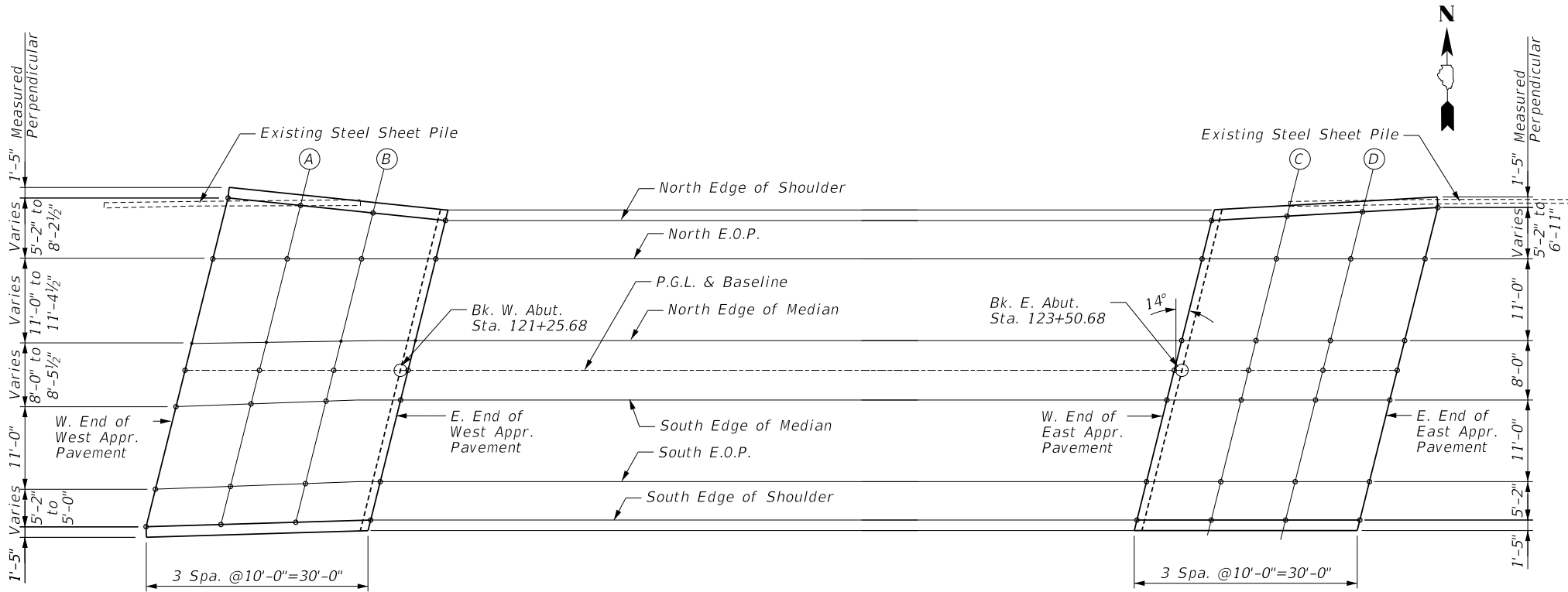
Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Pavement	120+95.49	4.90	646.83
A	121+05.58	4.53	646.90
B	121+15.68	4.15	646.97
E. End W. Appr. Pavement	121+25.71	4.00	647.04
W. End E. Appr. Pavement	123+48.65	4.00	646.94
C	123+58.65	4.00	646.87
D	123+68.65	4.00	646.81
E. End E. Appr. Pavement	123+78.65	4.00	646.75

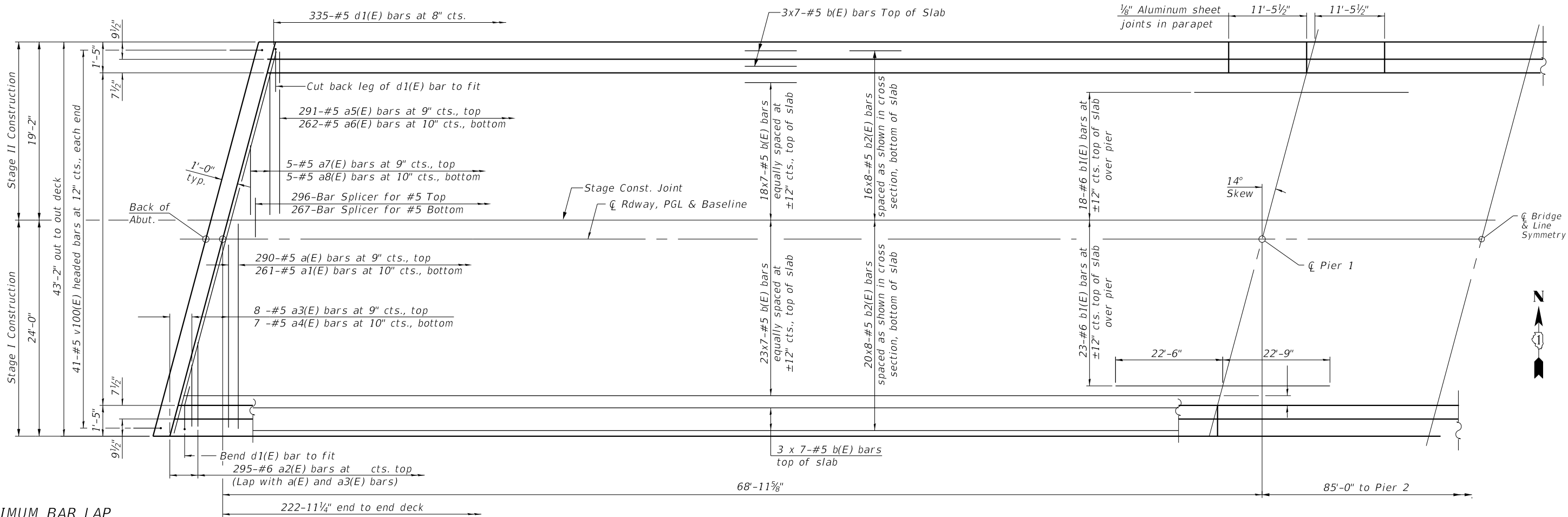
SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Pavement	120+92.72	16.01	646.59
A	121+02.81	15.64	646.66
B	121+12.91	15.26	646.73
E. End W. Appr. Pavement	121+22.97	15.00	646.80
W. End E. Appr. Pavement	123+45.91	15.00	646.71
C	123+55.91	15.00	646.67
D	123+65.91	15.00	646.61
E. End E. Appr. Pavement	123+75.91	15.00	646.54

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Pavement	120+91.46	21.06	646.48
A	121+01.53	20.76	646.55
B	121+11.61	20.46	646.62
E. End W. Appr. Pavement	121+21.68	20.17	646.69
W. End E. Appr. Pavement	123+44.62	20.17	646.64
C	123+54.62	20.17	646.58
D	123+64.62	20.17	646.51
E. End E. Appr. Pavement	123+74.62	20.17	646.45





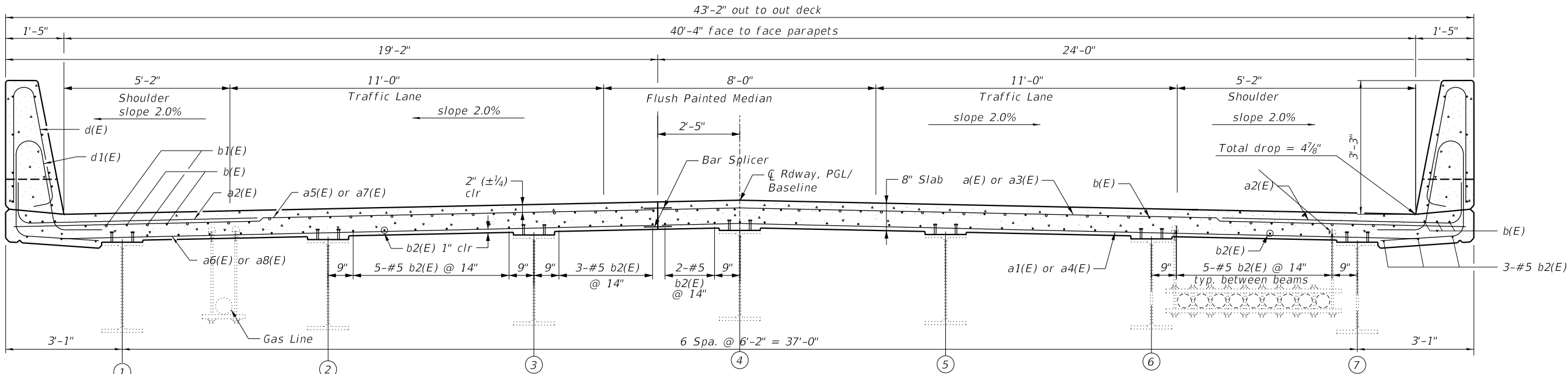
MINIMUM BAR LAP

#5 bar = 3'-6"

* See Field Cutting Diagram on sheet \$STR12 of \$TOT.

PARTIAL PLAN

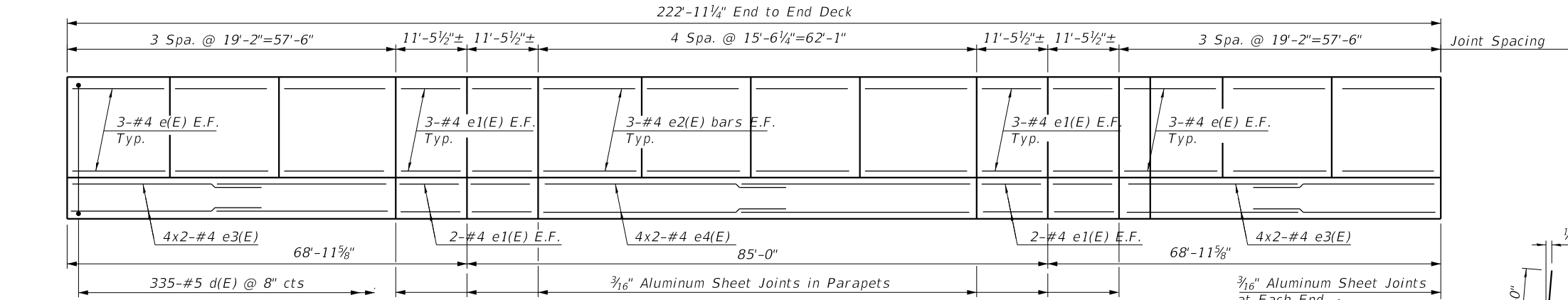
Notes:
See sheet \$STR12 of \$TOT for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.



CROSS SECTION

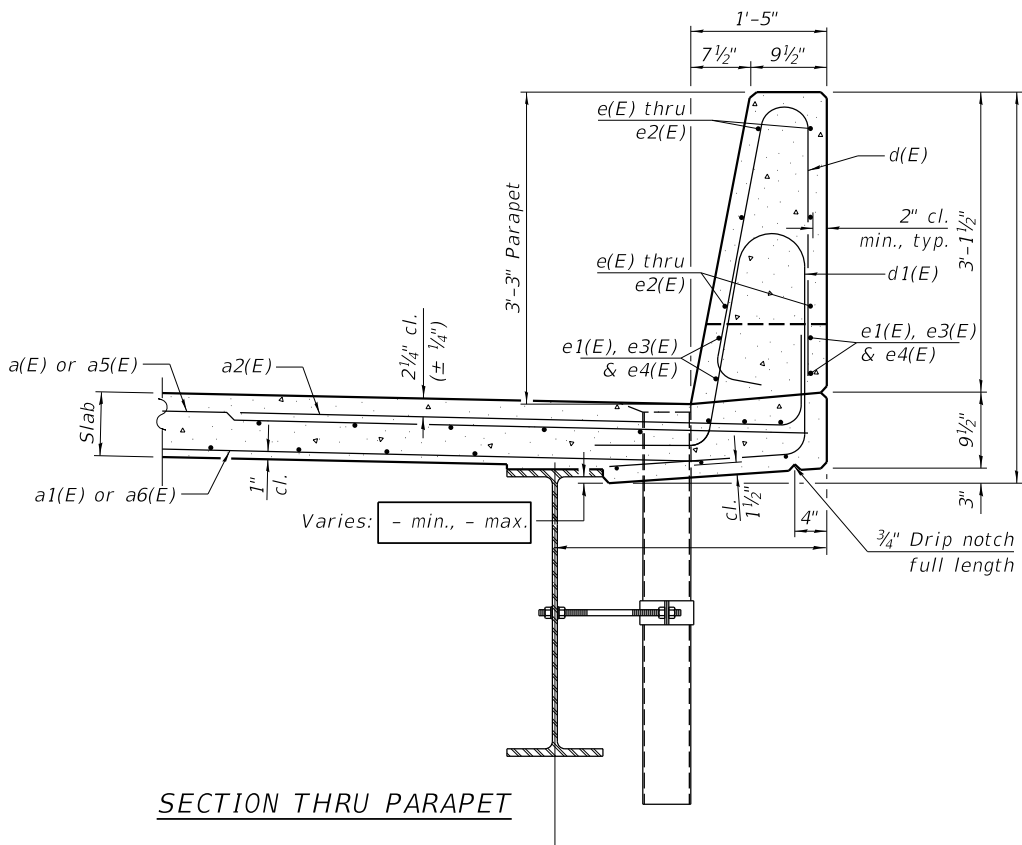
(Looking East)

FILE NAME =	USER NAME = jjezierny	DESIGNED - MM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DEERFIELD ROAD RECONSTRUCTION SUPERSTRUCTURE PLAN AND CROSS SECTION				F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N:\LC00T\190304.0003A\Struct\11-190304.0003A-Superstructure.sht		DRAWN - PDR	REVISED -						I257	I5-00038-07-WR	LAKE	1090	585
	PLOT SCALE = 1'	CHECKED - CF	REVISED -		CONTRACT NO. 6IK62								
Default	PLOT DATE = 7/31/2026	DATE -	REVISED -		ILLINOIS FED. AID PROJECT								
					SCALE:		SHEET	OF 107 SHEETS	STA.	TO STA.			

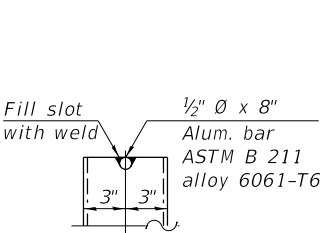


MINIMUM BAR LAP
#4 bar = 2'-5"

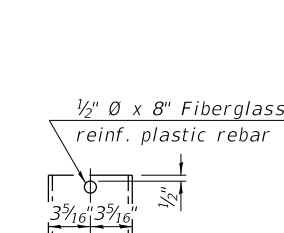
INSIDE ELEVATION OF PARAPET



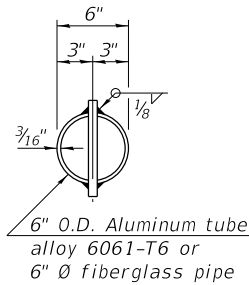
SECTION THRU PARAPET



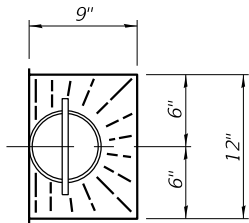
ALUMINUM
TUBE



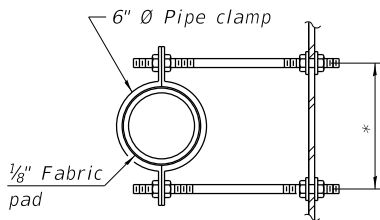
FIBERGLASS
PIPE



TOP PLAN
(Showing aluminum tube)

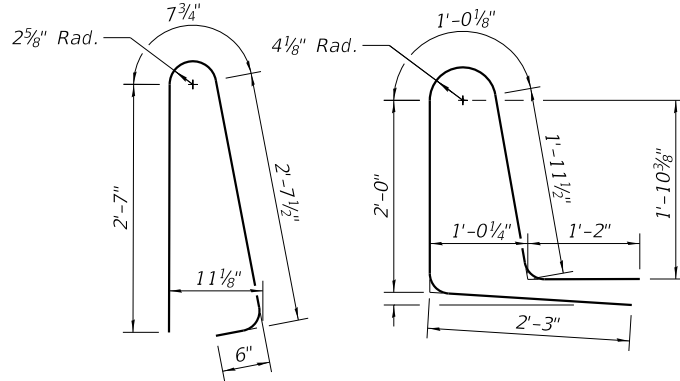


TOP PLAN



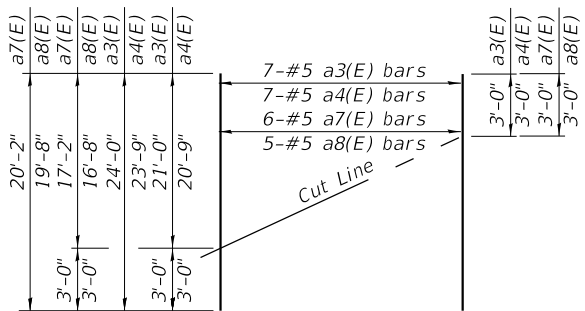
SECTION A-A

*Dimension as required by pipe clamp



BAR d(E)

BAR d1(E)



FIELD CUTTING DIAGRAM

Order a3(E), a4(E), a7(E) and a8(E) bars full length. Cut as shown and use remainder of bars in opposite end of deck.

BAR a2(E)

SUPERSTRUCTURE
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	290	#5	23'-8"	—
a1(E)	261	#5	23'-6"	—
a2(E)	590	#6	08'-4"	└
a3(E)	8	#5	24'-0"	—
a4(E)	7	#5	23'-9"	—
a5(E)	291	#5	18'-10"	—
a6(E)	262	#5	18'-8"	—
a7(E)	5	#5	20'-2"	—
a8(E)	5	#5	19'-8"	—
b(E)	329	#5	34'-10"	—
b1(E)	82	#6	45'-3"	—
b2(E)	288	#5	31'-0"	—
d(E)	670	#5	6'-5"	└
d1(E)	670	#5	8'-5"	└
e(E)	72	#4	18'-10"	—
e1(E)	80	#4	11'-1"	—
e2(E)	48	#4	15'-2"	—
e3(E)	32	#4	30'-0"	—
e4(E)	16	#4	32'-3"	—
m(E)	10	#6	22'-6"	—
m1(E)	20	#6	6'-0"	└
m2(E)	20	#6	6'-0"	└
m3(E)	4	#6	2'-2"	└
m4(E)	4	#6	3'-6"	└
m5(E)	8	#6	1'-0"	└
m6(E)	8	#6	1'-0"	└
m7(E)	4	#6	2'-2"	└
m8(E)	4	#6	3'-6"	└
m9(E)	4	#4	22'-6"	└
m10(E)	10	#6	17'-8"	└
m11(E)	4	#4	17'-8"	└
s(E)	92	#5	8'-8"	└
s1(E)	80	#5	9'-7"	└
v100(E)	82	#5	3'-1"	└
u(E)	92	#4	6'-8"	└
Reinforcement Bars, Epoxy Coated			Lbs.	75,980
Concrete Superstructure			Cu. Yds.	339.8

Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.

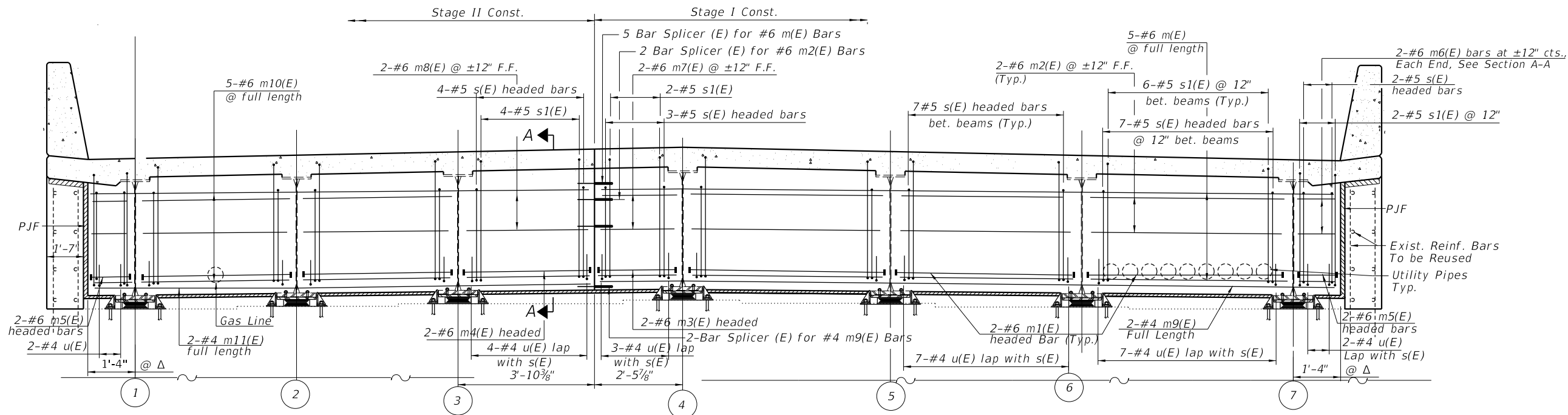
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Default	PLOT SCALE = 1'	CHECKED - CF	REVISED -
	PLOT DATE = 7/31/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DEERFIELD ROAD RECONSTRUCTION
PARAPET DETAILS

SCALE: SHEET OF 107 SHEETS STA. TO STA.

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I257	I5-00038-07-WR	LAKE	1090	586
CONTRACT NO. 6IK62				
ILLINOIS FED. AID PROJECT				



DIAPHRAGM DETAIL

NOTES:

See Sheet S-21 for Superstructure details and Bill of Material.
The s(E), s1(E), s2(E), s3(E), u(E) and v(E) bars shall be placed parallel to the beams.
Spacing for these bars shall be at right angles to the beams and spaced @ right angle to beams.
The approach slab seat shall have a constant slope determined from the control points shown.
Bat terminators, paid for separately. See Total Bill of Materials.

1/2" Ø Stainless steel expansion bolts with nuts and washers at 12" cts. according to Article 1006.29(d) of the Standard Specifications.

Bridge approach Slab seat

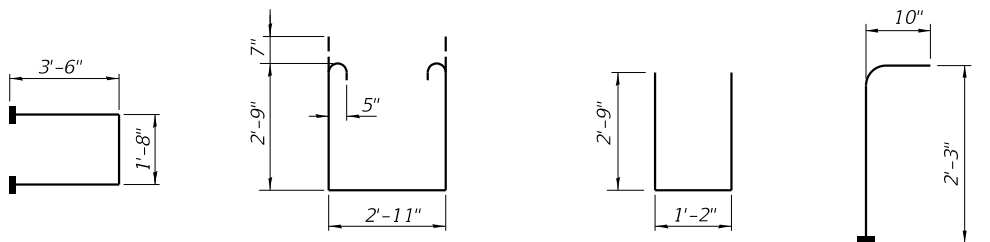
2" PJF (per Article 1051.09 of the Standard Specifications) bonded to abutment cap and wingwall with suitable adhesive as recommended by supplier.

NOTE:

Cost of fabric reinforced elastomeric mat, galvanized plate, stainless steel expansion bolts with nuts and washers and installation are included in the cost of Concrete Superstructure.

Limits of fabric reinforced elastomeric mat according to Section 1028 of the Standard Specifications and installed according to applicable requirements of Article 520.09 of the Standard Specification.

SEMI-INTEGRAL ABUTMENT JOINT DETAILS



BARS S(E)

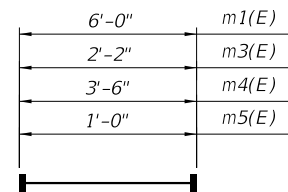
(Headed 184 - #5 Bar terminators)

BARS S1(E)

BAR U(E)

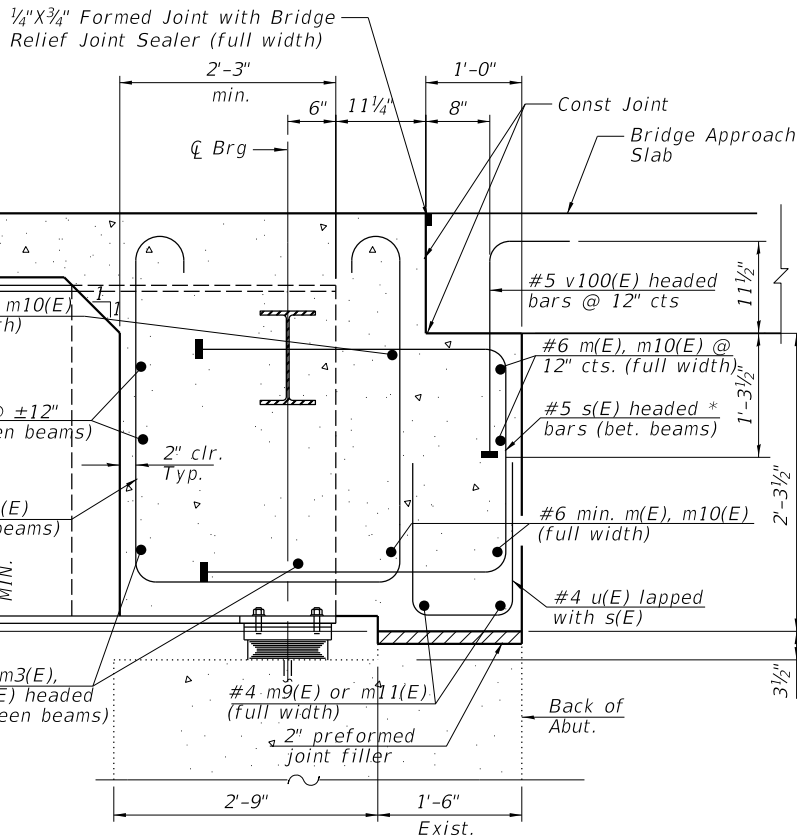
BAR V100(E)

(Headed 82 - #5 Bar terminators)



BAR m1(E), m3(E), m4(E), m5(E)

(Headed 20 - #5 Bar terminators)
(Headed 4 - #5 Bar terminators)
(Headed 4 - #5 Bar terminators)
(Headed 8 - #5 Bar terminators)

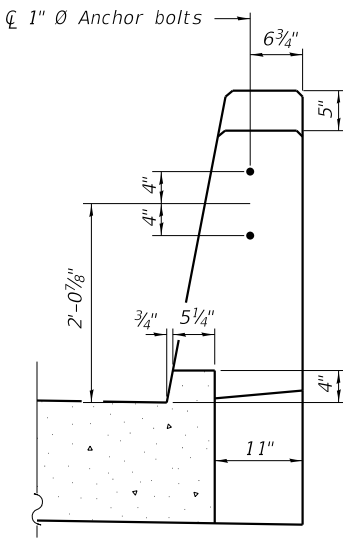
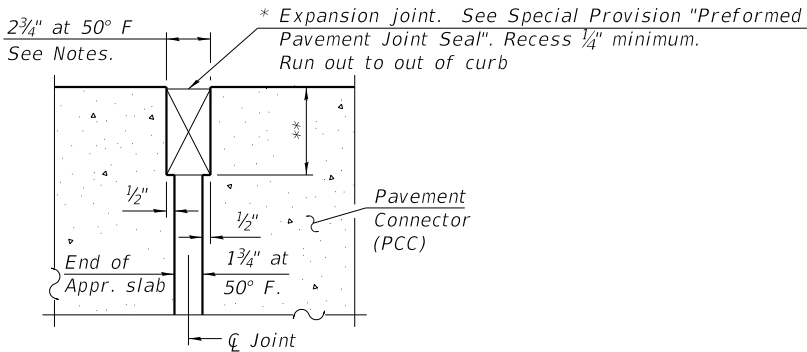
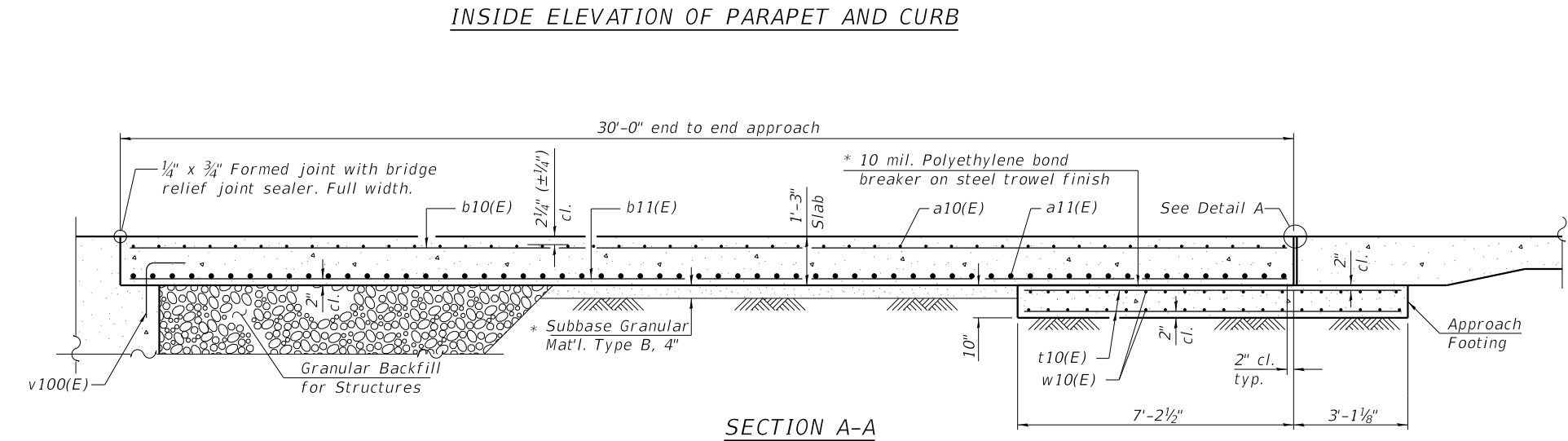
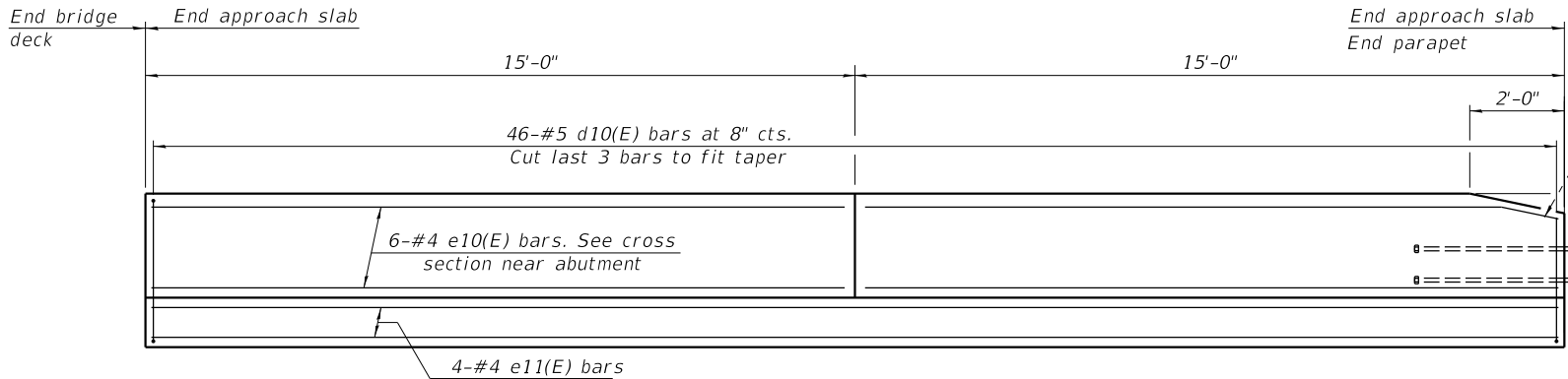


SECTION A-A

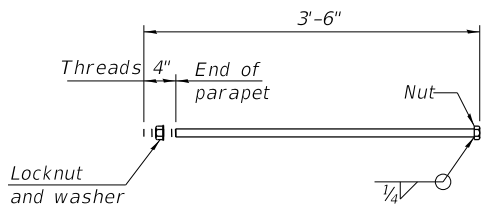
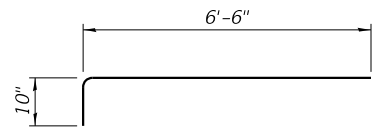
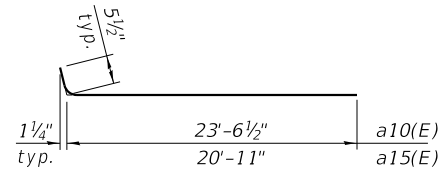
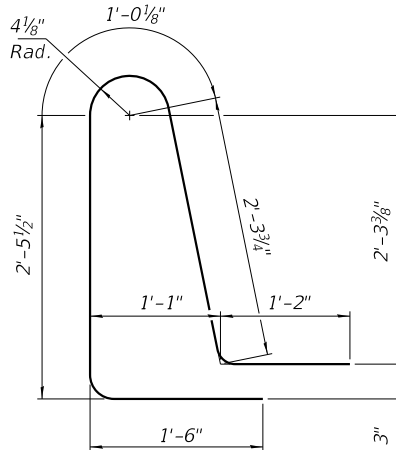
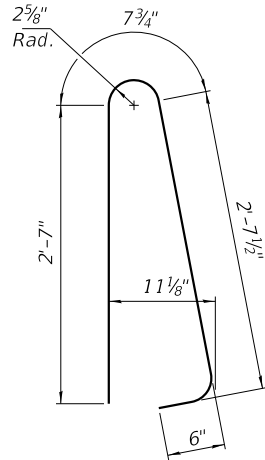
(at Rt. L's)

* The Contractor shall field drill holes in the existing end diaphragm to install s(E) headed bars. Cost included in "Reinforcement Bars, Epoxy Coated".

FILE NAME =	USER NAME = jjezerny	DESIGNED - MM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DEERFIELD ROAD RECONSTRUCTION DIAPHRAGM DETAILS	SCALE:	SHEET	OF 107 SHEETS	STA.	TO STA.	F.A.U R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Default	PLOT SCALE = 1'	CHECKED - CF	REVISED -												CONTRACT NO. 6IK62
	PLOT DATE = 7/31/2026	DATE -	REVISED -										ILLINOIS	FED. AID PROJECT	



Notes:
The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.
Parapet concrete shall be paid for as Concrete Superstructure.
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
Approach footing concrete shall be paid for as Concrete Structures.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
Cost of excavation for approach footing included with Concrete Structures.
For Granular Backfill for Structures and drainage treatment details, see sheet of .

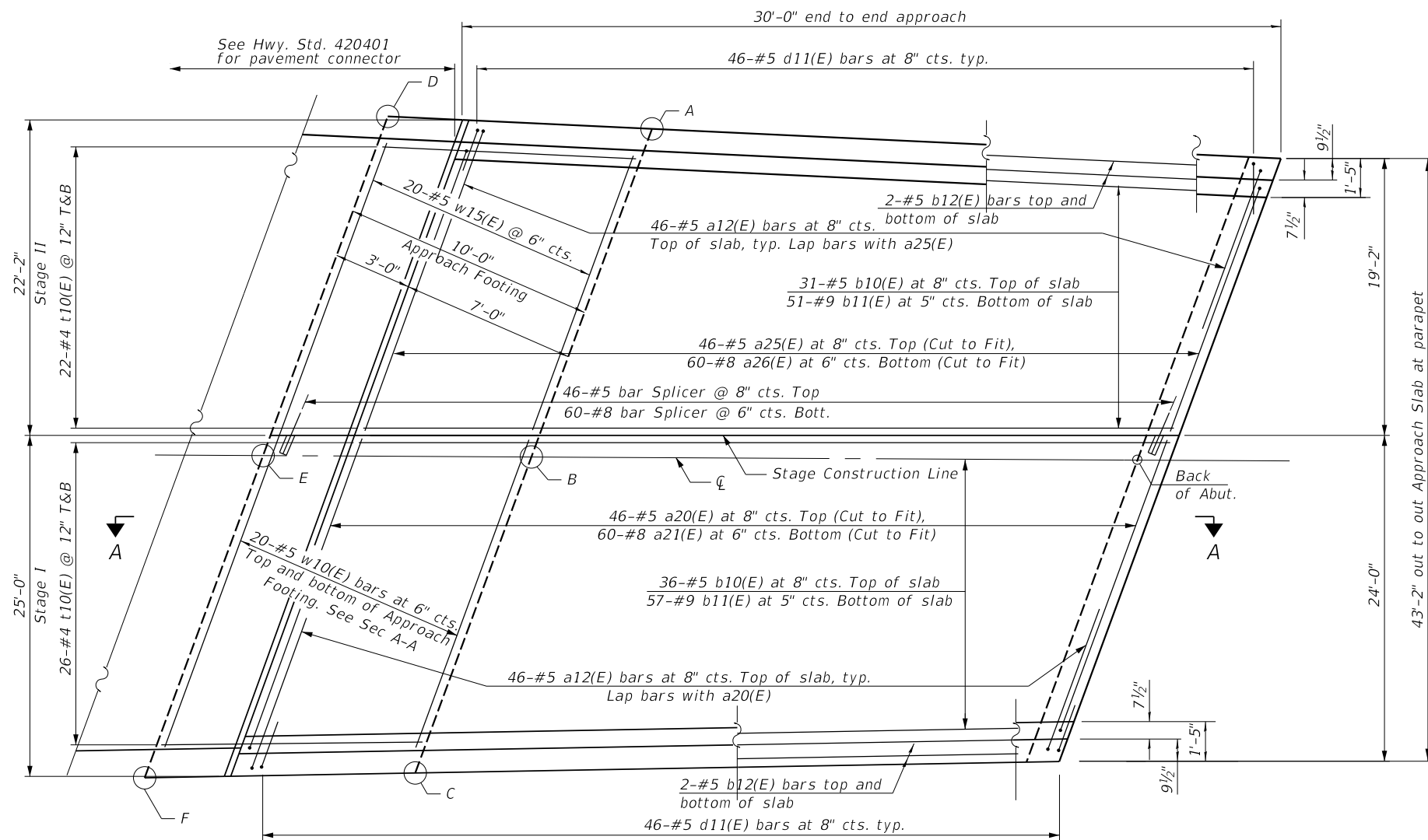


* 1" Ø ANCHOR BOLT
(Anchor bolt assemblies shall be galvanized according to Article 1006.09 of the Standard Specifications)

EAST APPROACHES BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	46	#5	24'-0"	
a11(E)	60	#8	23'-7"	
a12(E)	92	#5	07'-4"	
a15(E)	46	#5	20'-11"	
a16(E)	60	#8	20'-3"	
b10(E)	65	#5	29'-8"	
b11(E)	104	#9	29'-8"	
b12(E)	8	#5	29'-8"	
d10(E)	92	#5	06'-5"	
d11(E)	92	#5	08'-6"	
e10(E)	24	#4	14'-8"	
e11(E)	8	#4	29'-8"	
t10(E)	90	#4	10'-0"	
w10(E)	40	#5	24'-5"	
w11(E)	40	#5	21'-0"	
Concrete Superstructure			Cu. Yd.	7.7
Concrete Superstructure (Approach Slab)			Cu. Yd.	61.2
Concrete Structures			Cu. Yd.	13.3
Reinforcement Bars, Epoxy Coated			Pound	26,790

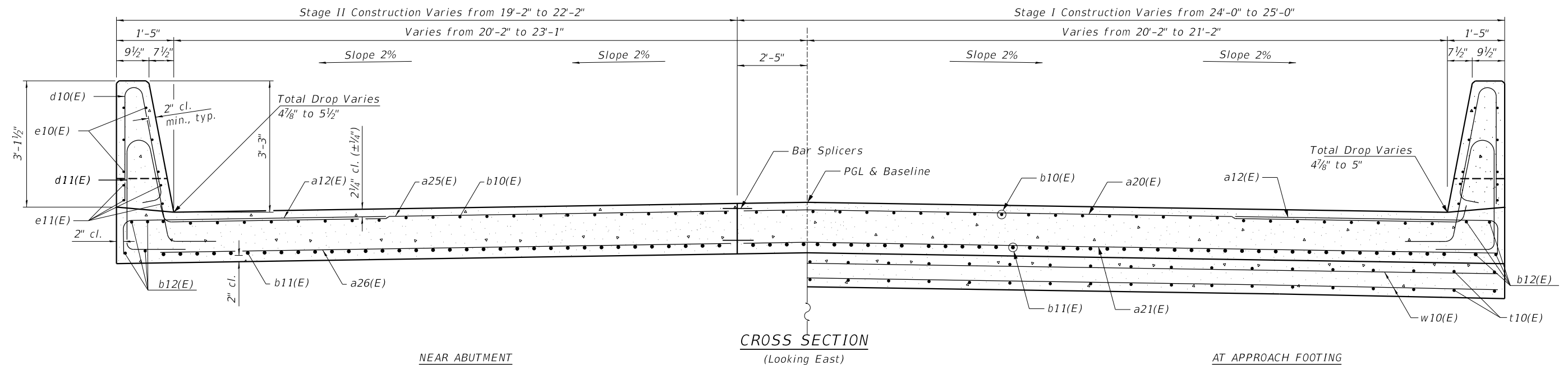
* Cost included with Concrete Superstructure (Approach Slab).
** Per manufacturer recommendations



PLAN-WEST APPROACH SLAB

TOP AND BOTTOM ELEVATIONS
FOR APPROACH FOOTING

Point	E. Approach		W. Approach	
	Top	Bottom	Top	Bottom
A	646.50	645.12	646.68	645.31
B	646.86	645.61	646.98	645.73
C	646.59	645.22	646.64	645.27
D	646.42	645.04	646.61	645.23
E	646.80	645.55	646.92	645.67
F	646.49	645.12	646.58	645.20

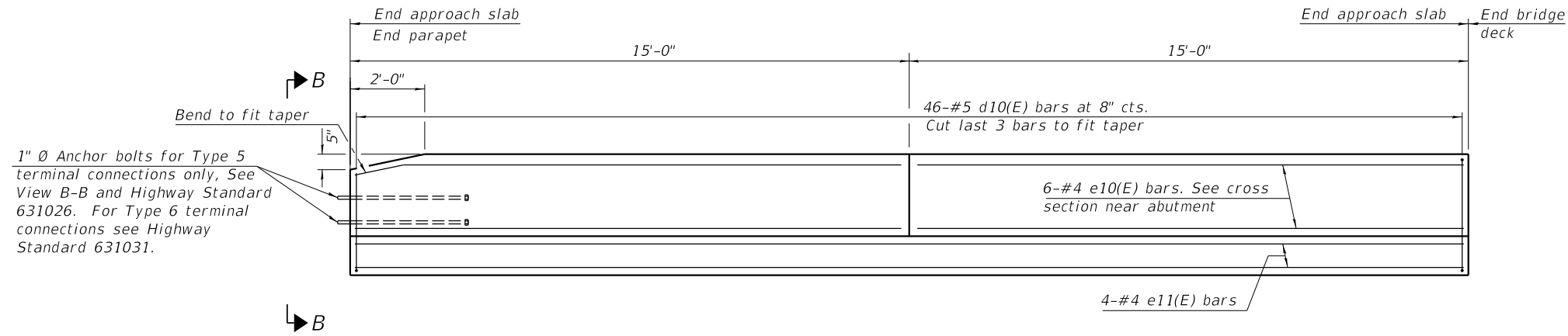


NEAR ABUTMENT

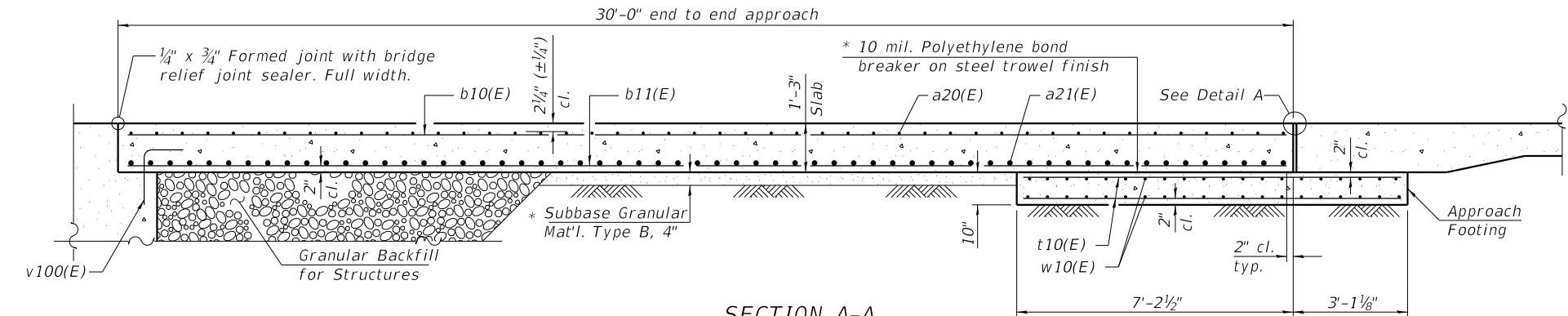
CROSS SECTION
(Looking East)

AT APPROACH FOOTING

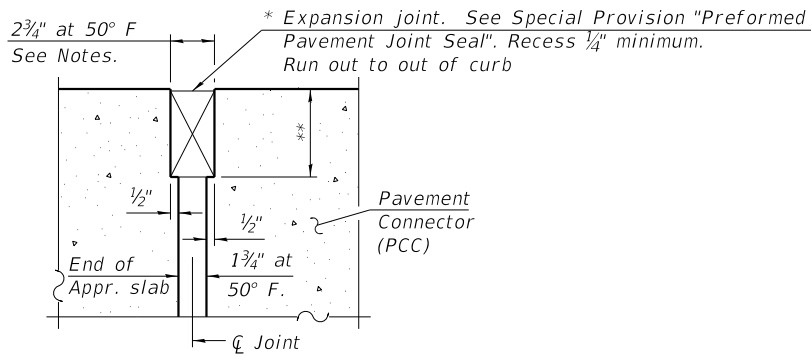
Notes:
The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.
Parapet concrete shall be paid for as Concrete Superstructure.
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
Approach footing concrete shall be paid for as Concrete Structures.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
Cost of excavation for approach footing included with Concrete Structures.
For Granular Backfill for Structures and drainage treatment details, see sheet of



INSIDE ELEVATION OF PARAPET AND CURB

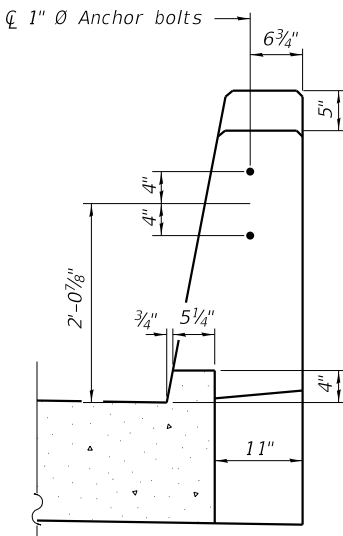


SECTION A-A

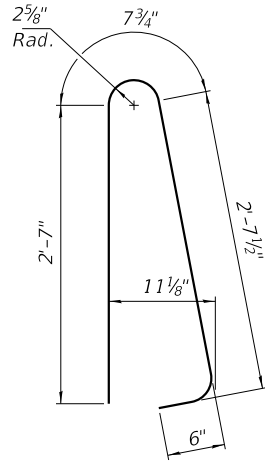


DETAIL A
(at Rt. L's)

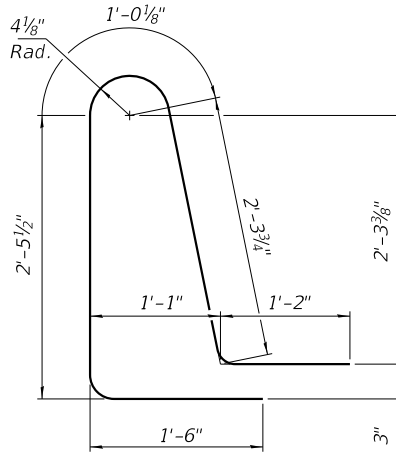
* Cost included with Concrete Superstructure (Approach Slab).
** Per manufacturer recommendations



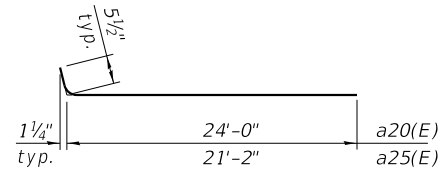
VIEW B-B



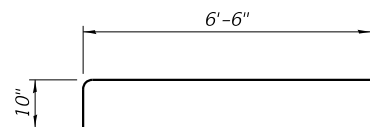
BAR d10(E)



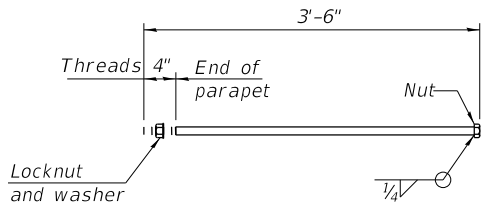
BAR d11(E)



BAR a20(E) & a25(E)



BAR a12(E)



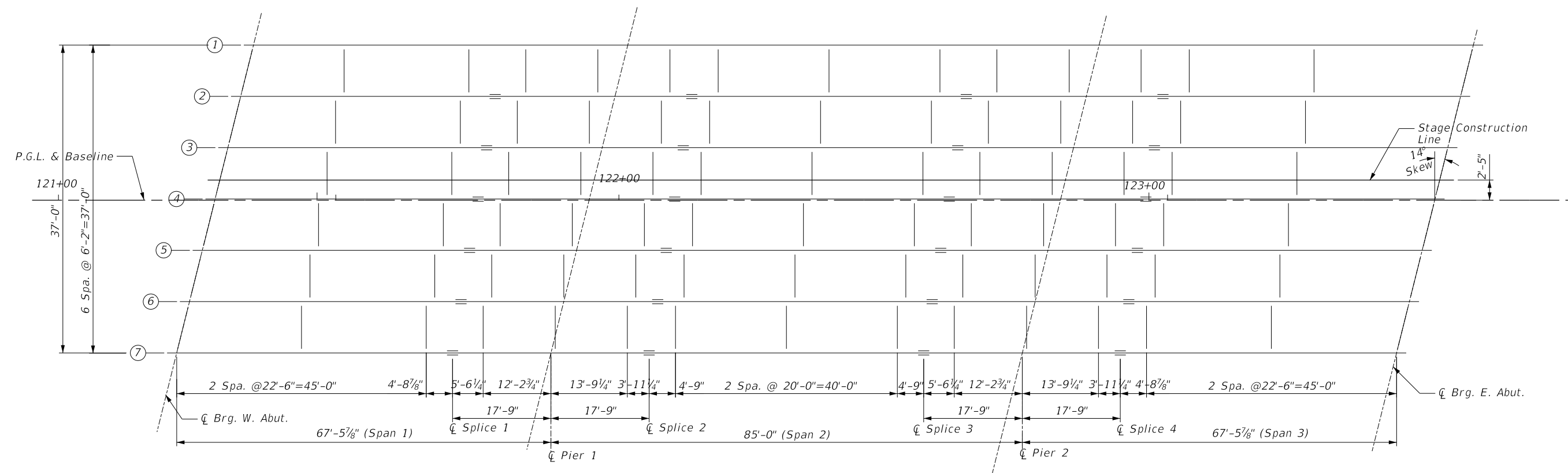
* 1" Ø ANCHOR BOLT
(Anchor bolt assemblies shall be galvanized according to Article 1006.09 of the Standard Specifications)

WEST APPROACHE
BILL OF MATERIAL

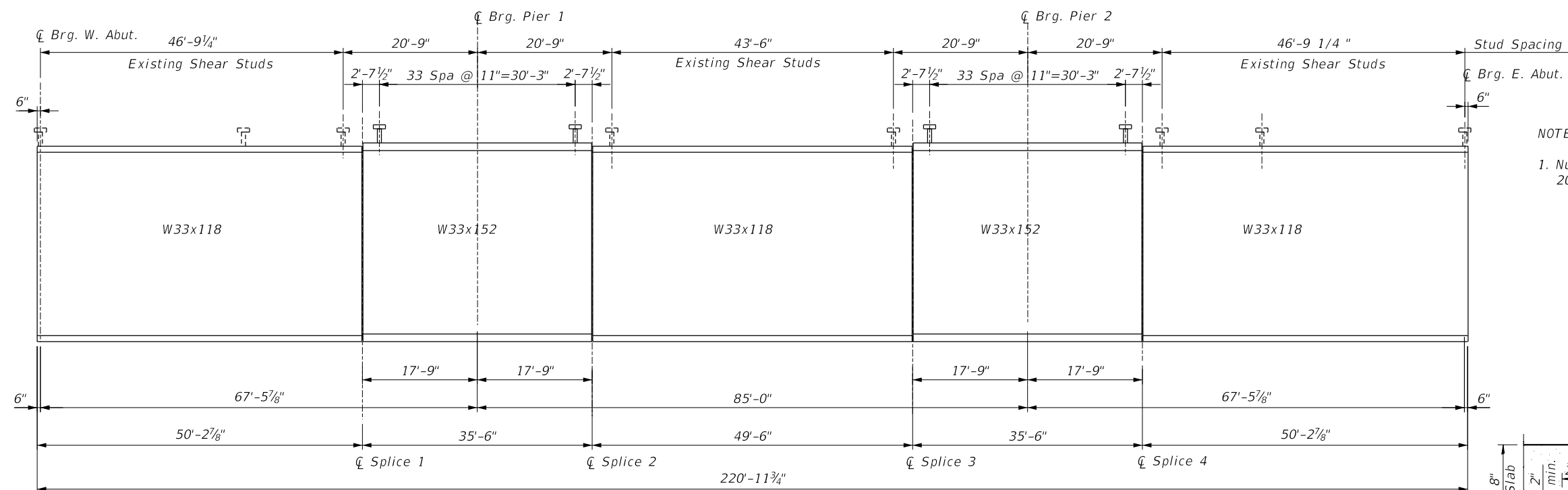
Bar	No.	Size	Length	Shape
a20(E)	46	#5	24'-6"	
a21(E)	60	#8	24'-6"	
a12(E)	92	#5	07'-4"	
a25(E)	46	#5	22'-2"	
a26(E)	60	#8	20'-9"	
b10(E)	67	#5	29'-8"	
b11(E)	108	#9	29'-8"	
b12(E)	8	#5	29'-8"	
d10(E)	92	#5	06'-5"	
d11(E)	92	#5	08'-6"	
e10(E)	24	#4	14'-8"	
e11(E)	8	#4	29'-8"	
t10(E)	96	#4	10'-0"	
w10(E)	40	#5	25'-3"	
w11(E)	40	#5	22'-4"	
Concrete Superstructure			Cu. Yd.	7.7
Concrete Superstructure (Approach Slab)			Cu. Yd.	62.7
Concrete Structures			Cu. Yd.	13.3
Reinforcement Bars, Epoxy Coated			Pound	27,830

(Sheet 2 of 2)

FILE NAME =	USER NAME = jjezerny	DESIGNED - MM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DEERFIELD ROAD RECONSTRUCTION WEST APPROACH SLAB DETAILS		F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N:\LC00T\190304.0003A\Struct\17-190304.0003A-Appr Slab-04.sht		DRAWN - PDR	REVISED -				I257	I5-00038-07-WR	LAKE	1090	591
Default	PLOT SCALE = 1'	CHECKED - CF	REVISED -				CONTRACT NO. 6IK62				
	PLOT DATE = 7/31/2026	DATE -	REVISED -		SCALE:	SHEET OF 107 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		



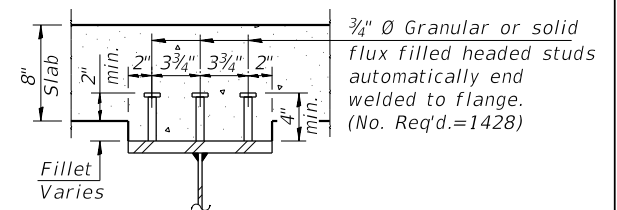
FRAMING PLAN



ELEVATION

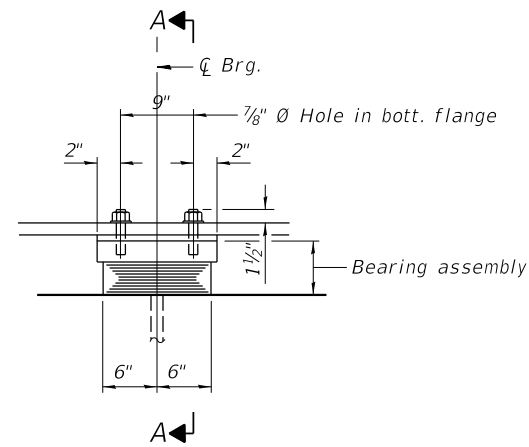
NOTE:

1. Number of Shear Connectors Required
204x7 Beams=1428

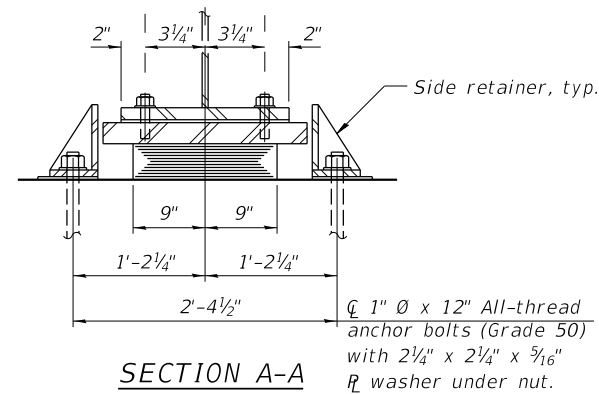


SECTION A-A

FILE NAME = N:\C00T\190304.0003A\Struct\19-190304.0003A-Framing.sht Default	USER NAME = jjezierny	DESIGNED - MM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DEERFIELD ROAD RECONSTRUCTION FRAMING PLAN	SCALE: SHEET OF 107 SHEETS STA. TO STA.	F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - PDR	REVISED -				I257	I5-00038-07-WR	LAKE	1090	593
		PLOT SCALE = 10'	CHECKED - CF				CONTRACT NO. 6IK62				
		PLOT DATE = 7/31/2026	DATE -				ILLINOIS FED. AID PROJECT				

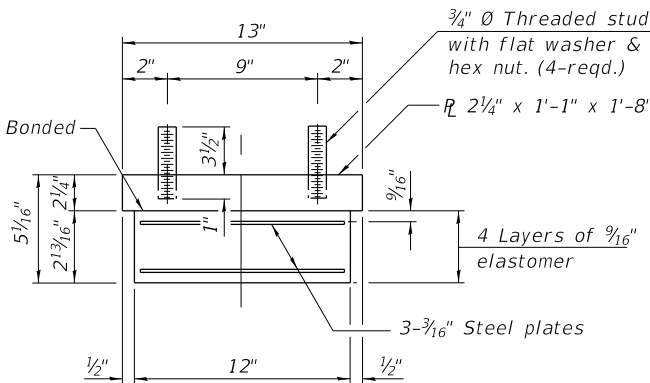


ELEVATION AT PIER 1



SECTION A-A

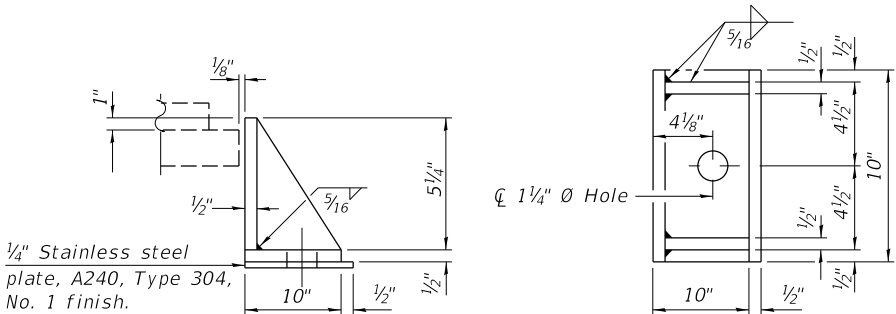
TYPE I ELASTOMERIC EXP. BRG. - PIER 1



BEARING ASSEMBLY

Note:
Shim plates shall not be placed
under bearing assembly.

Notes:
Side retainers and stainless steel plates shall be
included in the cost of Elastomeric Bearing Assembly,
Type I.
Anchor bolts and side retainers at all supports shall
be installed as each member is erected unless an
equivalent temporary means of lateral restraint is used.



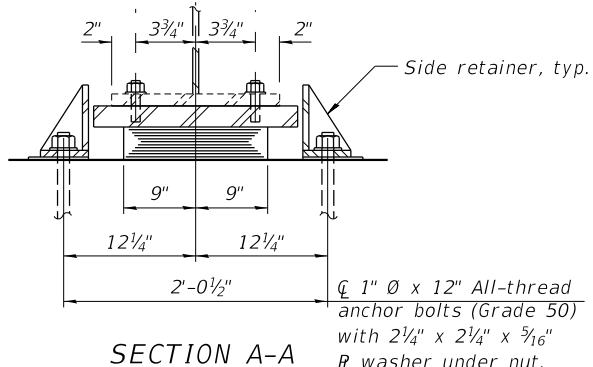
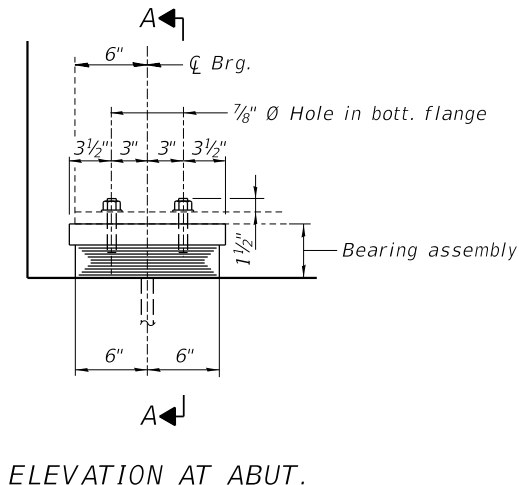
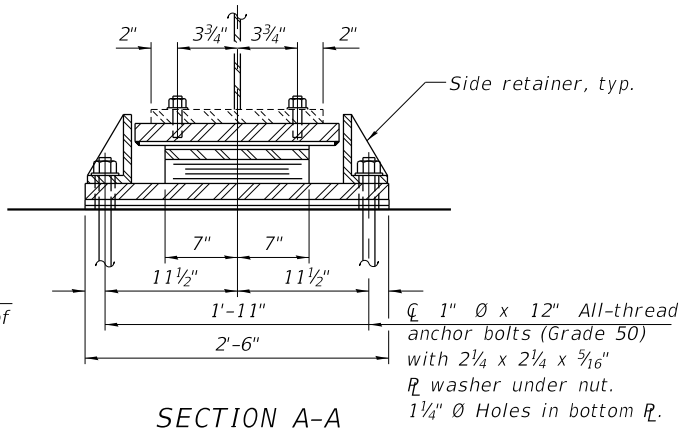
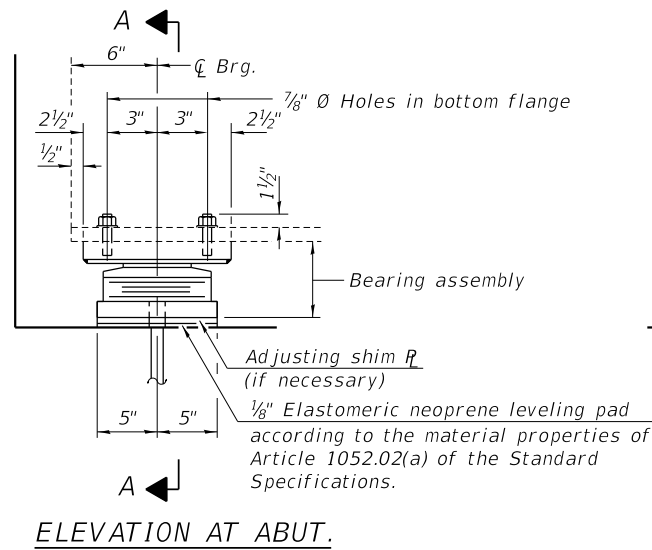
SIDE RETAINER

Equivalent rolled angle with stiffeners
will be allowed in lieu of welded plates.

BILL OF MATERIAL

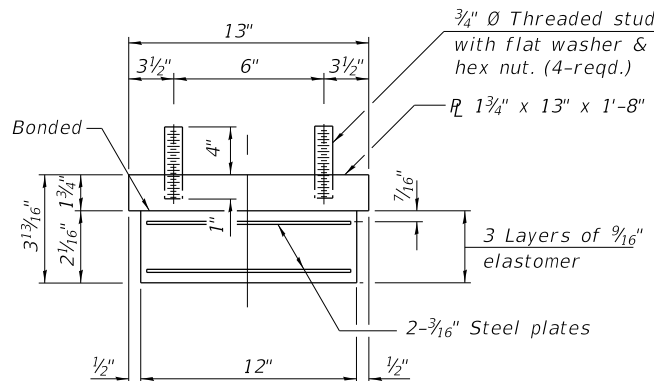
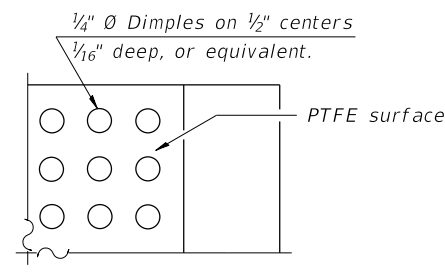
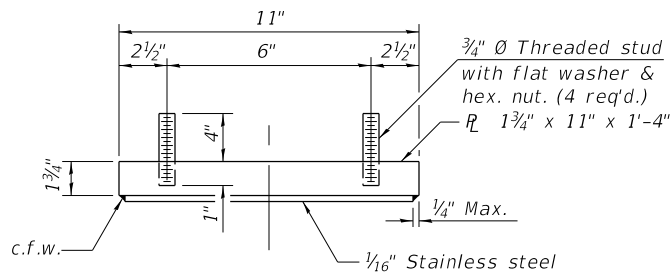
Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	7
Anchor Bolts	Each	14

FILE NAME =	USER NAME = jjezierny	DESIGNED - MM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DEERFIELD ROAD RECONSTRUCTION PIERS - BEARING DETAILS	F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N:\LC007\190304.0003A\Struct\20-190304.0002A-Bearing Detail-01.sht		DRAWN - PDR	REVISED -			I257	I5-00038-07-WR	LAKE	1090	594
Default	PLOT SCALE = 1'	CHECKED - CF	REVISED -			CONTRACT NO. 6IK62				
	PLOT DATE = 7/31/2026	DATE -	REVISED -			SCALE:	SHEET	OF 107 SHEETS	STA.	TO STA.



TYPE II ELASTOMERIC EXP. BRG. - WEST ABUTMENT

TYPE I ELASTOMERIC EXP. BRG. - EAST ABUTMENT

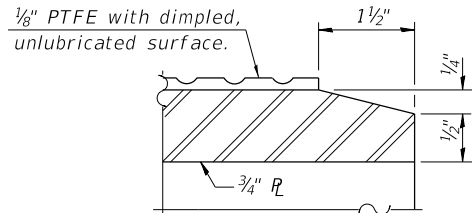
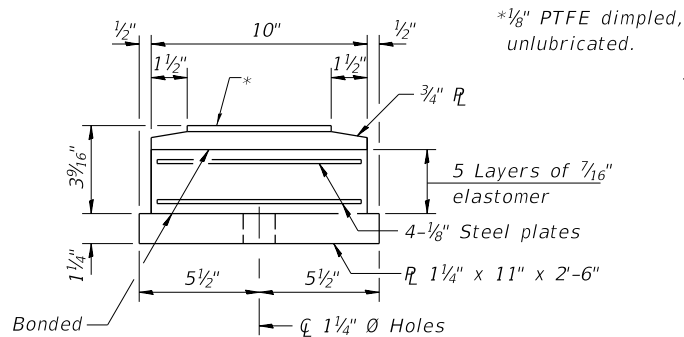


Note:
Shim plates shall not be placed under bearing assembly.

TOP BEARING ASSEMBLY

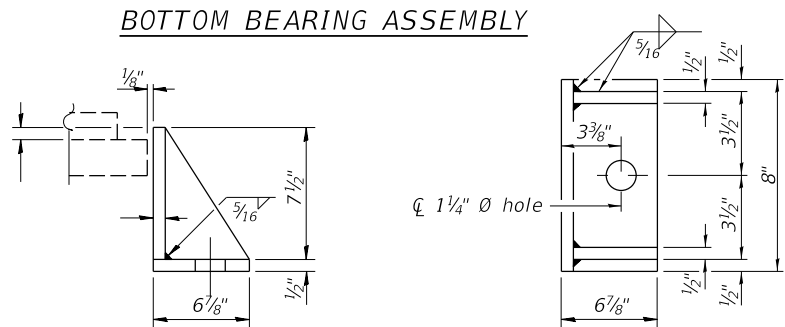
PLAN-PTFE SURFACE

BEARING ASSEMBLY

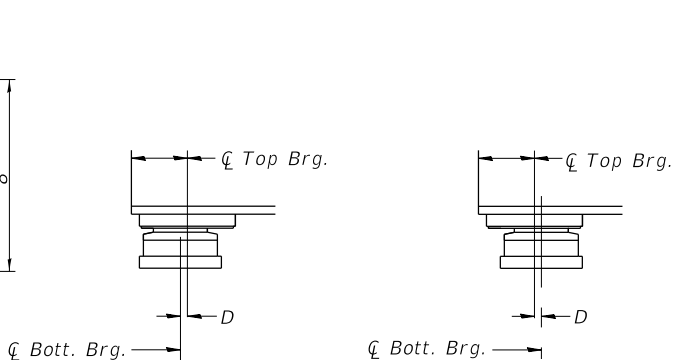


SECTION THRU PTFE

BOTTOM BEARING ASSEMBLY



SIDE RETAINER
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.



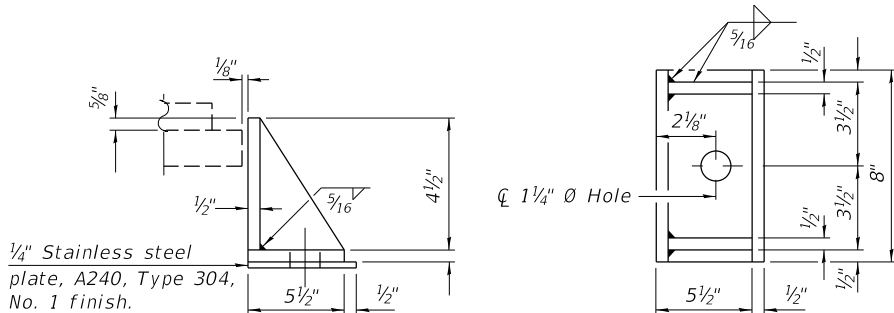
BELOW 50°F.

D=1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

ABOVE 50°F.

EXPANSION BEARING ORIENTATION

The above diagrams are for informational purposes only to show the amount of expected offset "D" for the current temperature in the field.

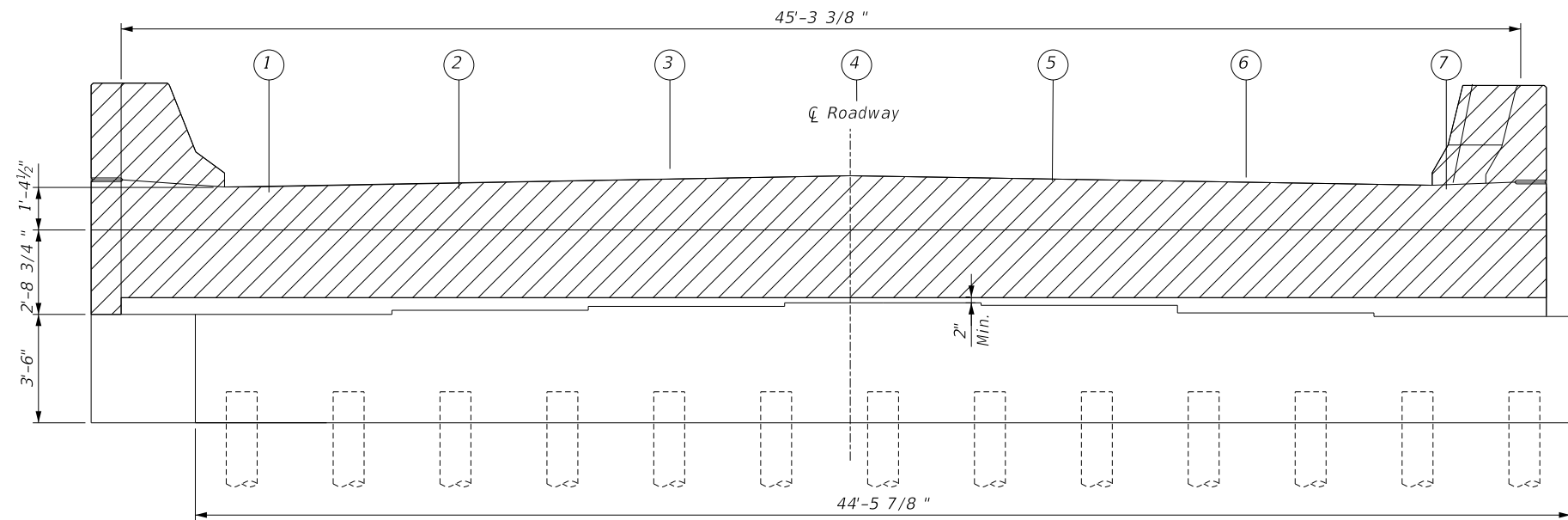


SIDE RETAINER

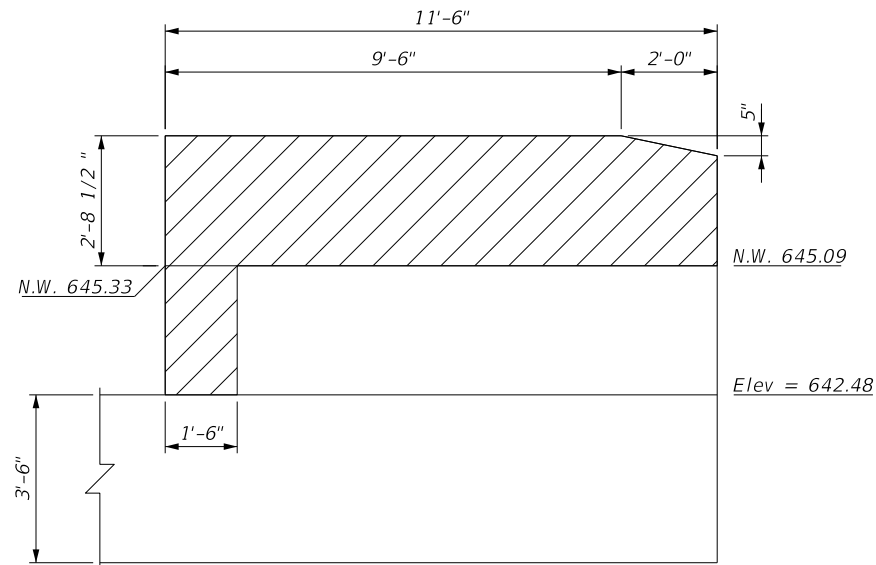
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

BILL OF MATERIAL

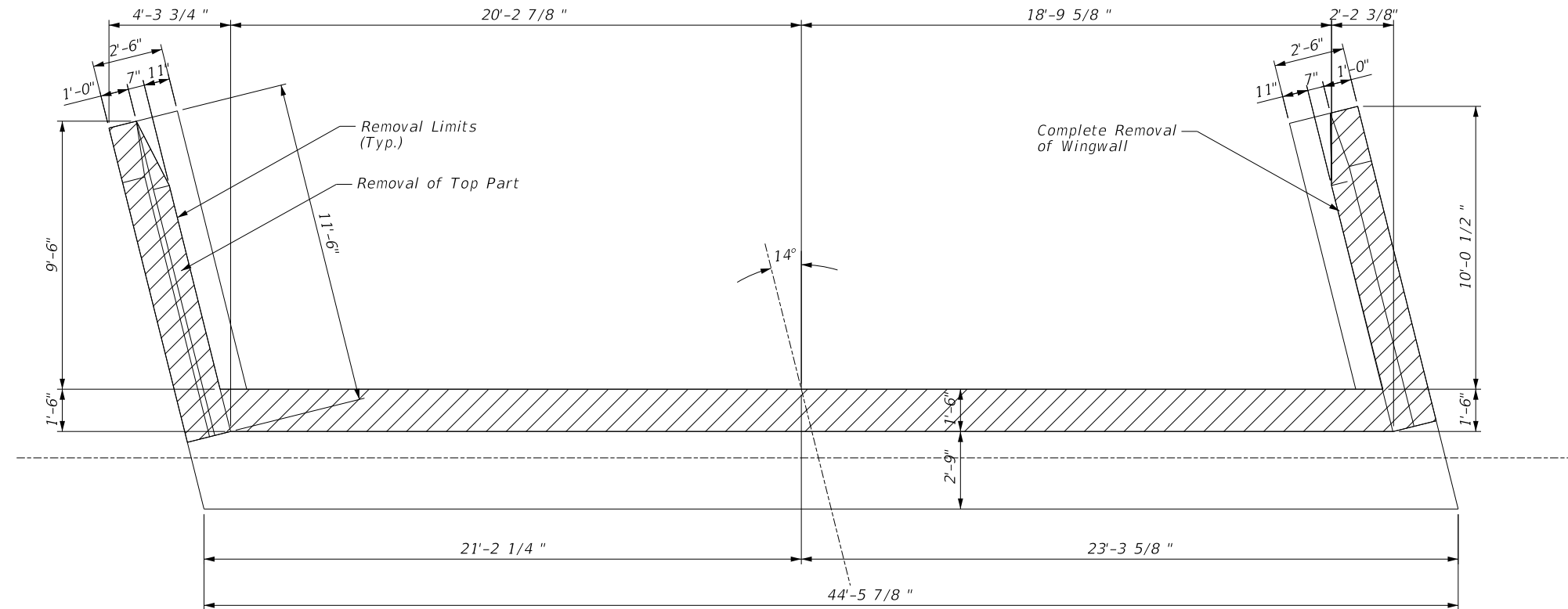
Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	7
Elastomeric Bearing Assembly Type II	Each	7
Anchor Bolts	Each	28



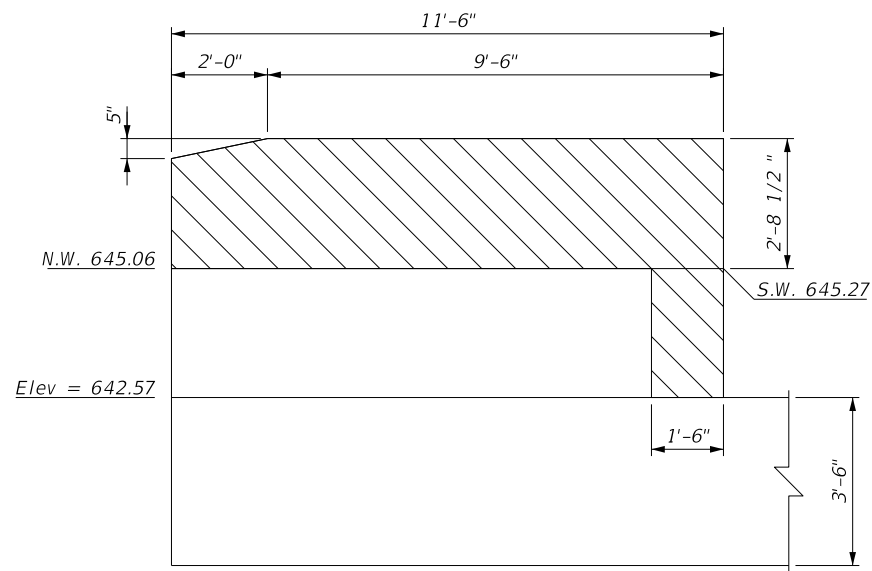
WEST ABUTMENT ELEVATION



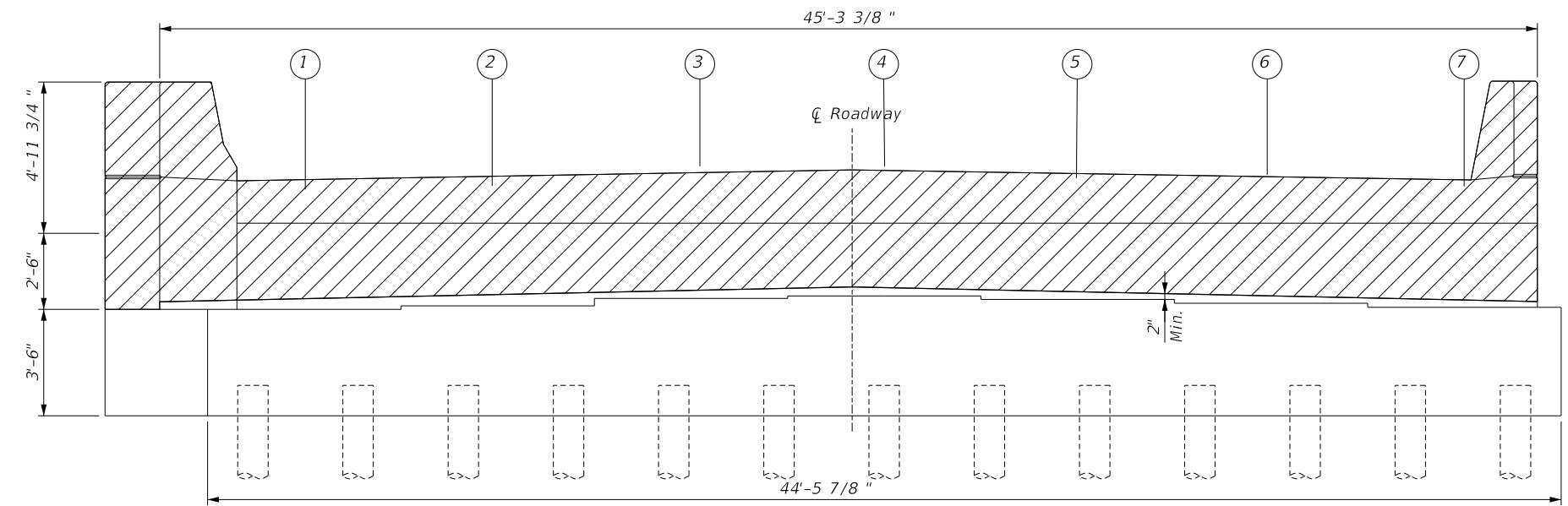
NW WINGWALL ELEVATION



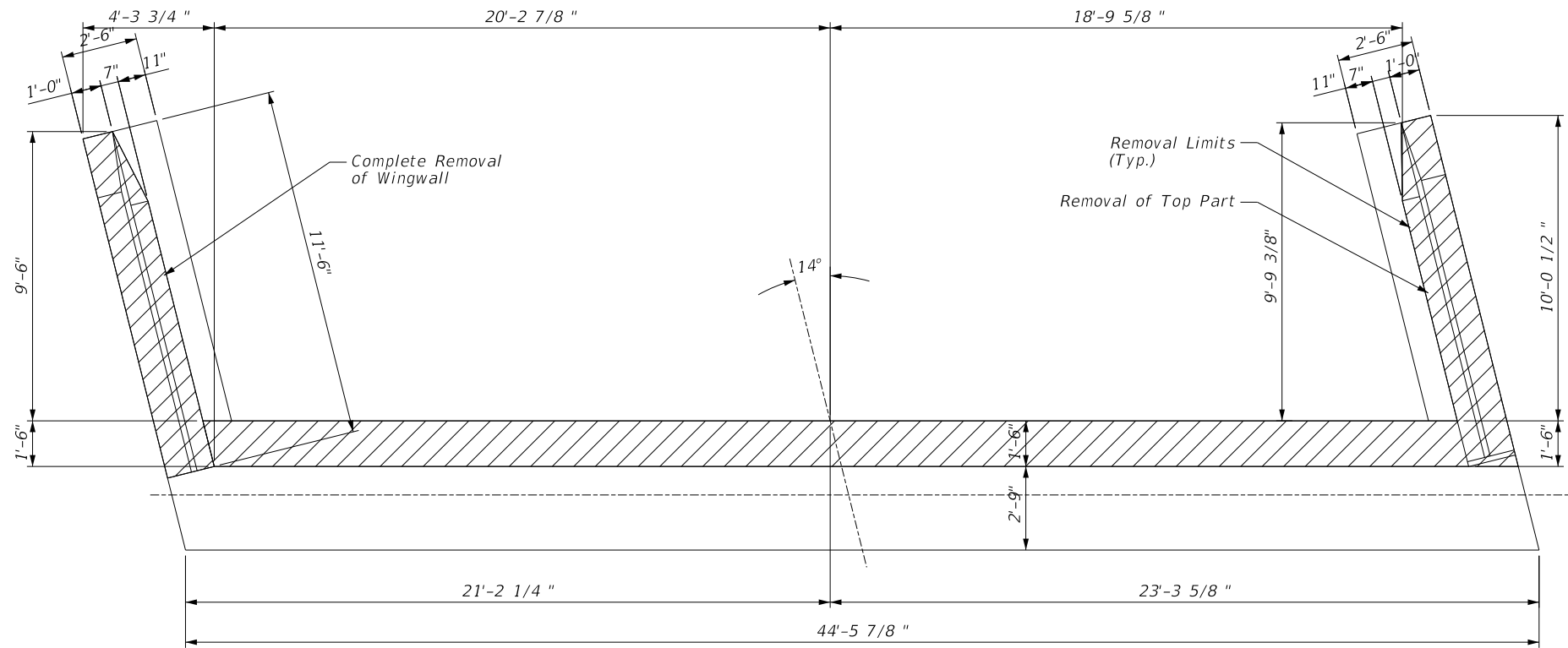
PLAN



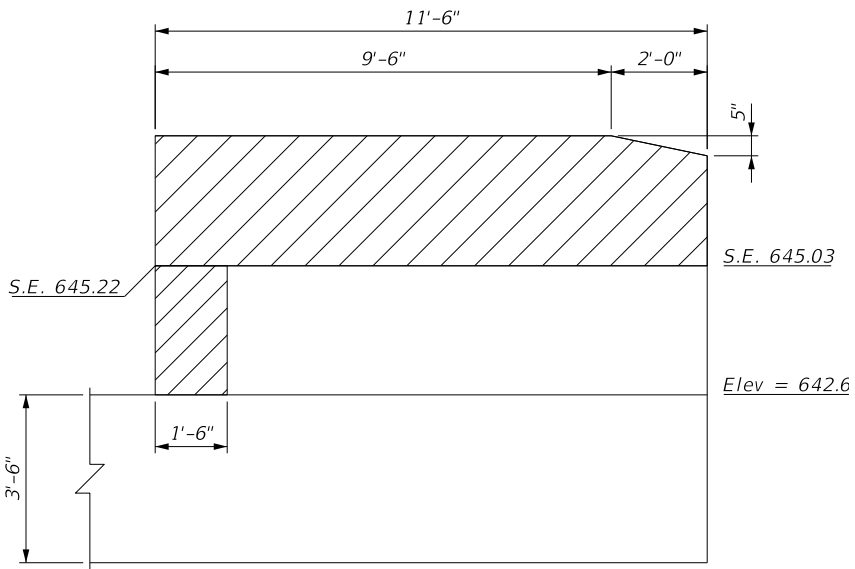
SW WINGWALL ELEVATION



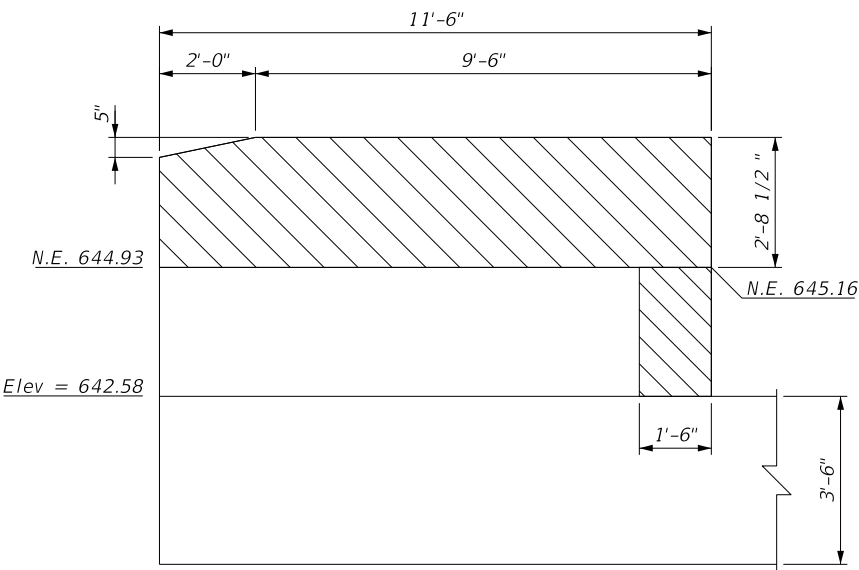
ELEVATION



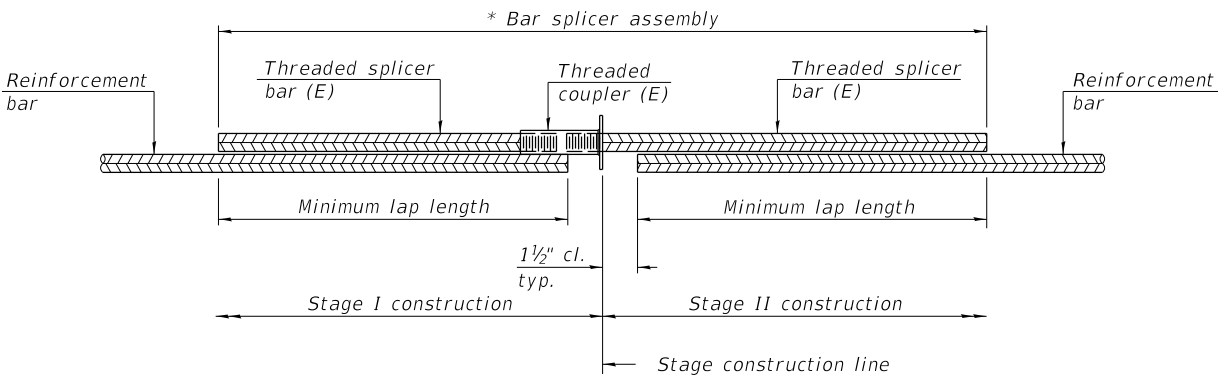
PLAN



SE WINGWALL ELEVATION



NE WINGWALL ELEVATION

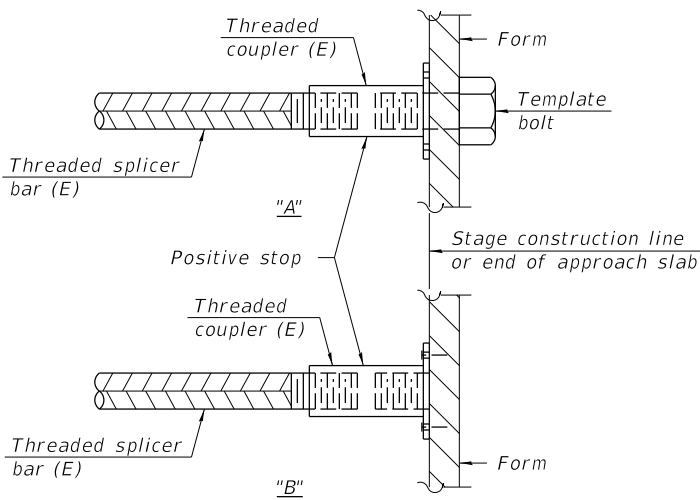


STANDARD BAR SPLICER ASSEMBLY PLAN
(All components shall be provided from one supplier)

Threaded splicer bar length = min. lap length + 1½" + thread length

* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Deck	#5	563	
Diaphragm	#6	18	
Diaphragm	#4	4	
Approach (Top)	#5	92	
Approach (Bottom)	#8	120	
Sleeper	#5	80	

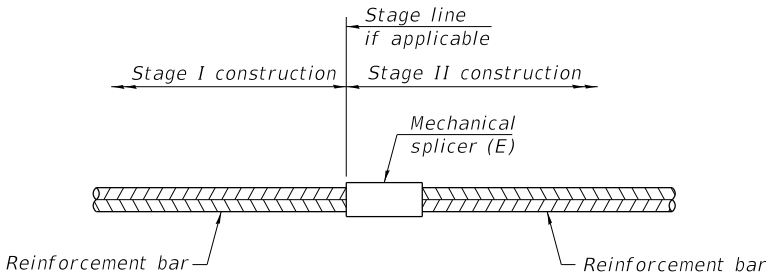


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

Notes:

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

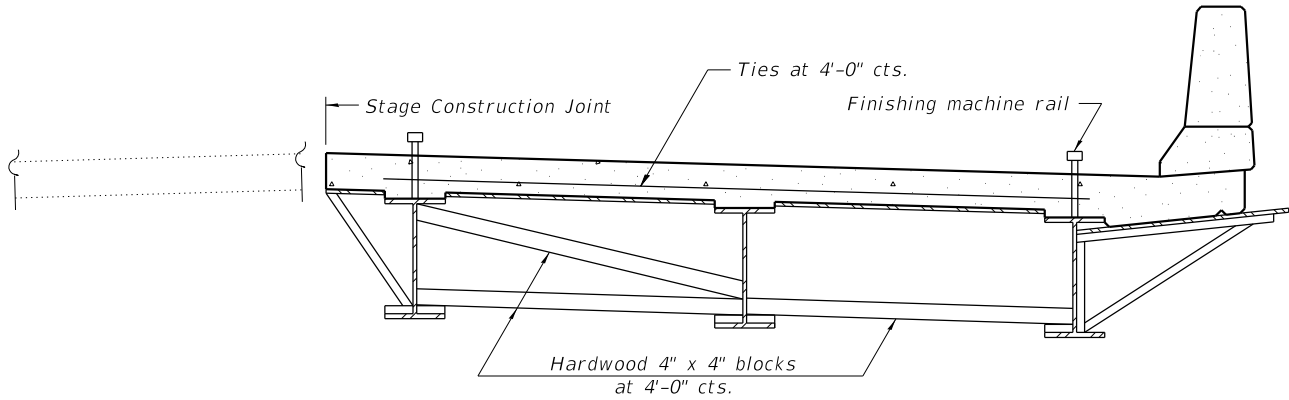
See approved list of bar splicer assemblies and mechanical splicers for alternatives.

When cantilever forming brackets are used, the work shall be done according to Article 503.06(b) of the Standard Specifications, except as modified below and in the details shown on this sheet.

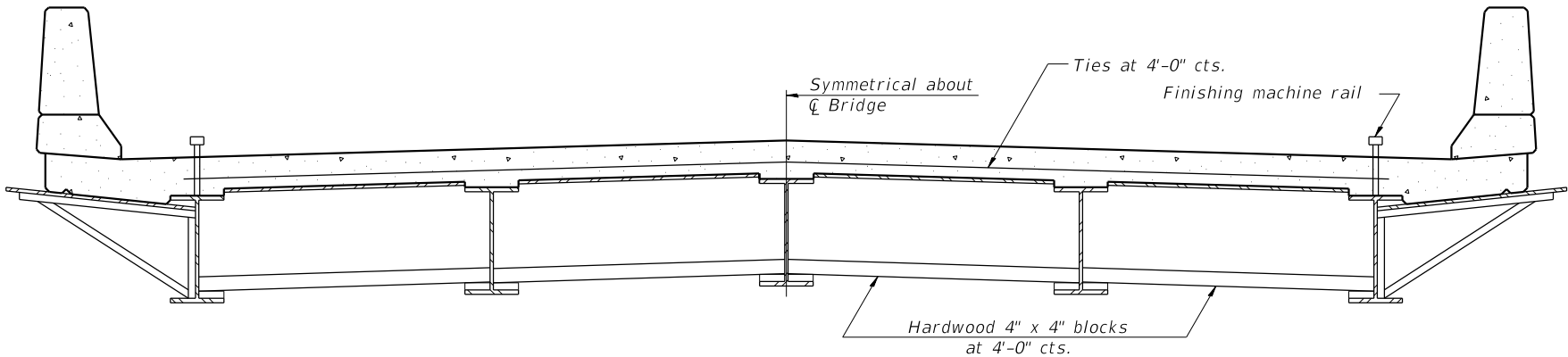
The finishing machine rails shall be placed on the top flange of the exterior beams.

The beams or girders, supporting cantilever forming brackets, shall be tied together at 4 foot intervals.

For Standard construction, or Stage Construction the Hardwood bracing materials shall be placed as shown between webs of beams in each bay.



FORM BRACES FOR
STAGE CONSTRUCTION



FORM BRACES FOR
STANDARD CONSTRUCTION

