

END ROADWAY WIDENING & RESURFACING  
BEGIN PAVEMENT RECONSTRUCTION  
STA. 280+77.12

279 J 280+00

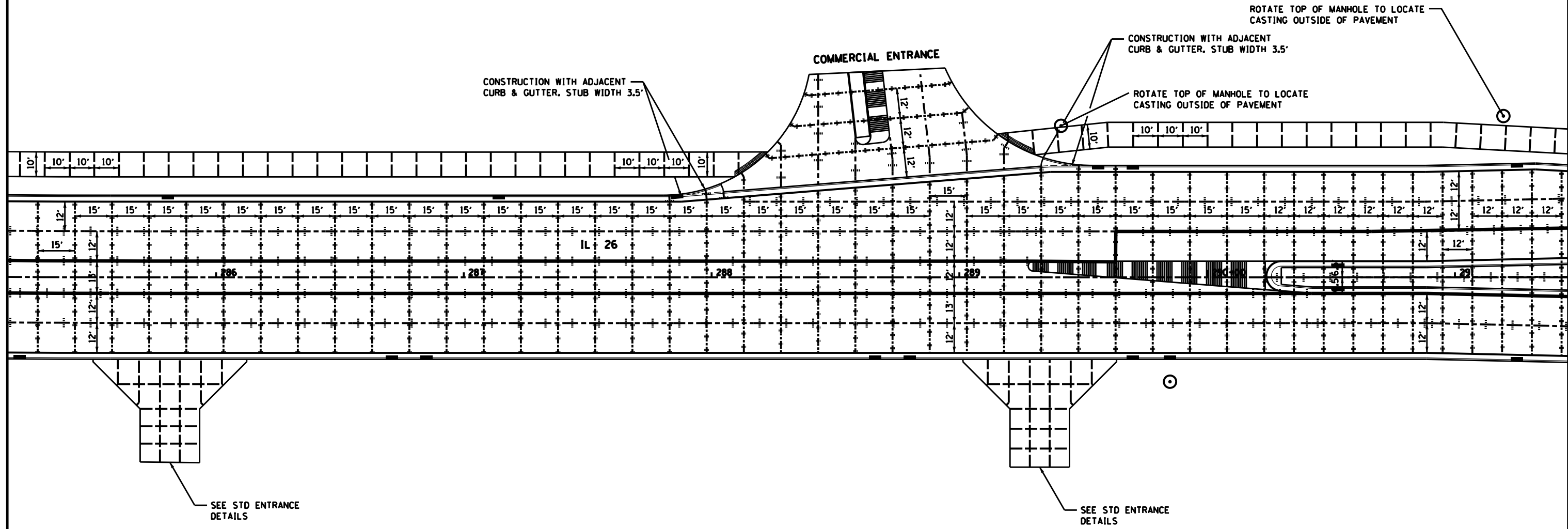
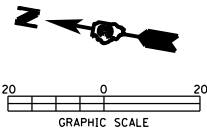
STA 281+80.38 (IL 26)  
= STA. 10+00.00 (PROGRESS DR.)

STA. 11+29.44

**LEGEND**

- LONGITUDINAL SAWED OR CONSTRUCTION JOINT
- TRANSVERSE CONTRACTION JOINT
- SAWED OR TOOLED JOINT
- STAGE CONSTRUCTION LINE

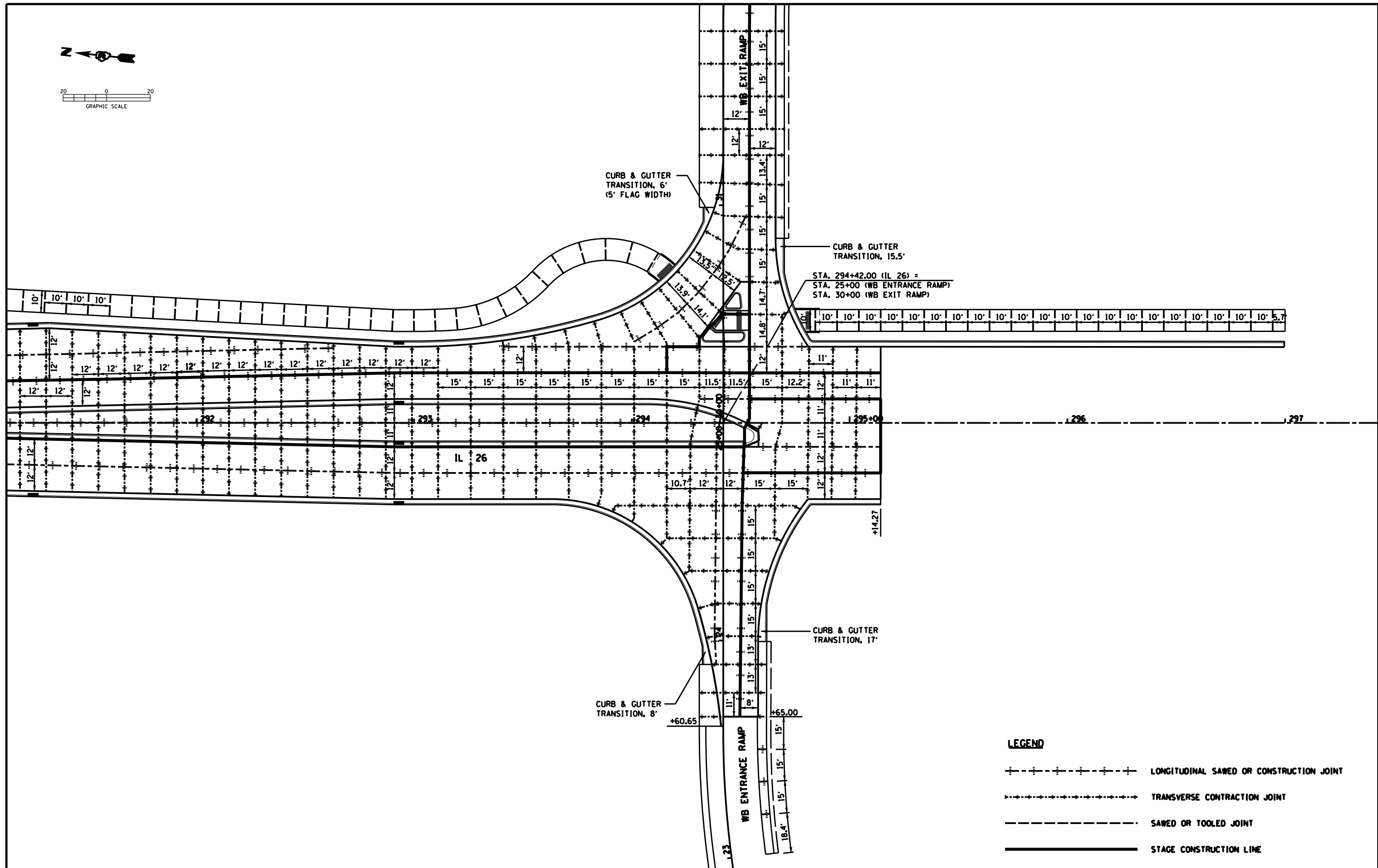
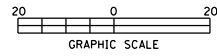
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	PLOT SCALE = 20.0' / IN.	DRAWN - RAMIREZ, P	REVISED -		SCALE:	SHEET NO. 1 OF 4 SHEETS	STA. 1625+49.62 TO STA. 295+14.27	CONTRACT NO. 66901				
	PLOT DATE = \$DATE\$	CHECKED - SCHWERTLEY, D	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE - \$DATE\$	REVISED -									



**LEGEND**

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- TRANSVERSE CONTRACTION JOINT
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	PLOT SCALE = 20.0' / IN.	DRAWN - RAMIREZ, P	REVISED -		SCALE:	SHEET NO. 2 OF 4 SHEETS	STA. 1625+49.62 TO STA. 295+14.27	<b>CONTRACT NO. 66901</b>				
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		DATE - #DATE#	REVISED -									



**LEGEND**

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- TRANSVERSE CONTRACTION JOINT
- SAWED OR TOOLED JOINT
- STAGE CONSTRUCTION LINE

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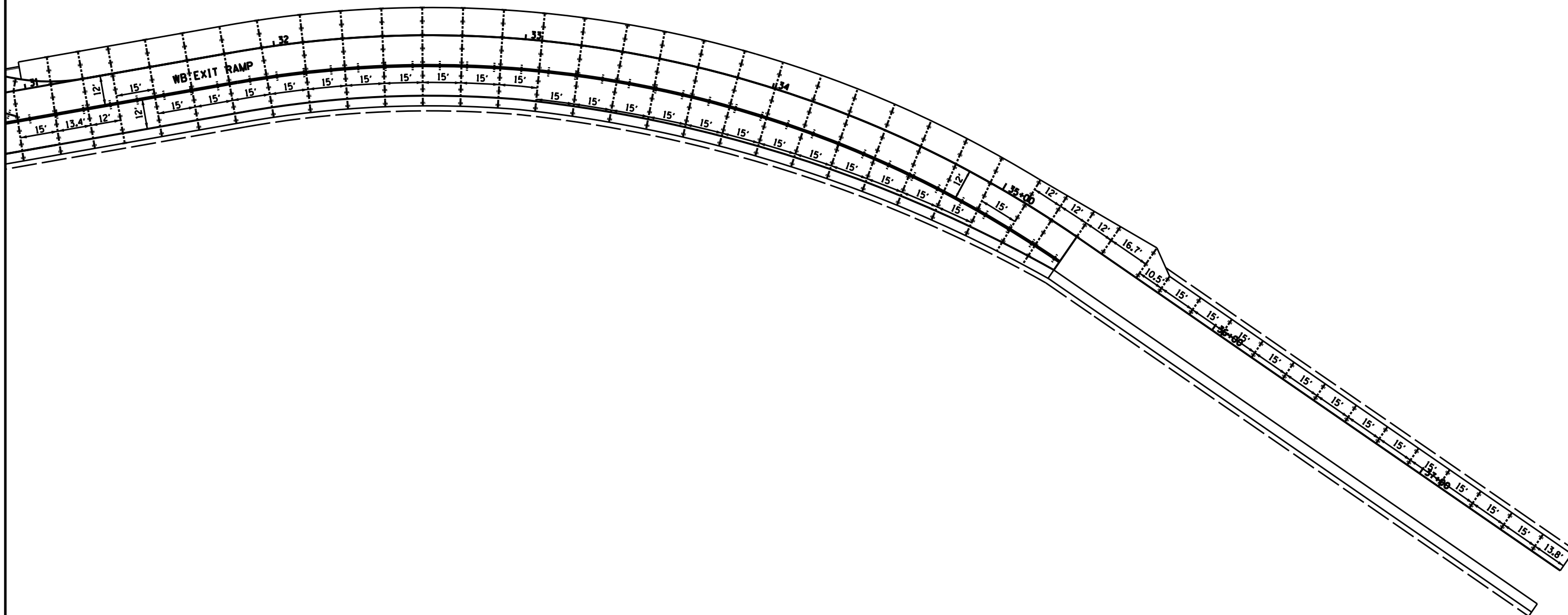
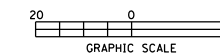
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**


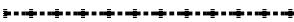


**INTERSECTION DETAIL SHEETS**

SCALE: SHEET NO. 3 OF 4 SHEETS STA. 1625+49.62 TO STA. 295+14.27

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(116) R,T	BUREAU	221	103
CONTRACT NO. 66901				
ILLINOIS FED. AID PROJECT				



**LEGEND**

-  LONGITUDINAL SAWED OR CONSTRUCTION JOINT
-  TRANSVERSE CONTRACTION JOINT
-  SAWED OR TOOLED JOINT
-  STAGE CONSTRUCTION LINE

FILE NAME =  
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PLOT SCALE = 20.0' / IN.  
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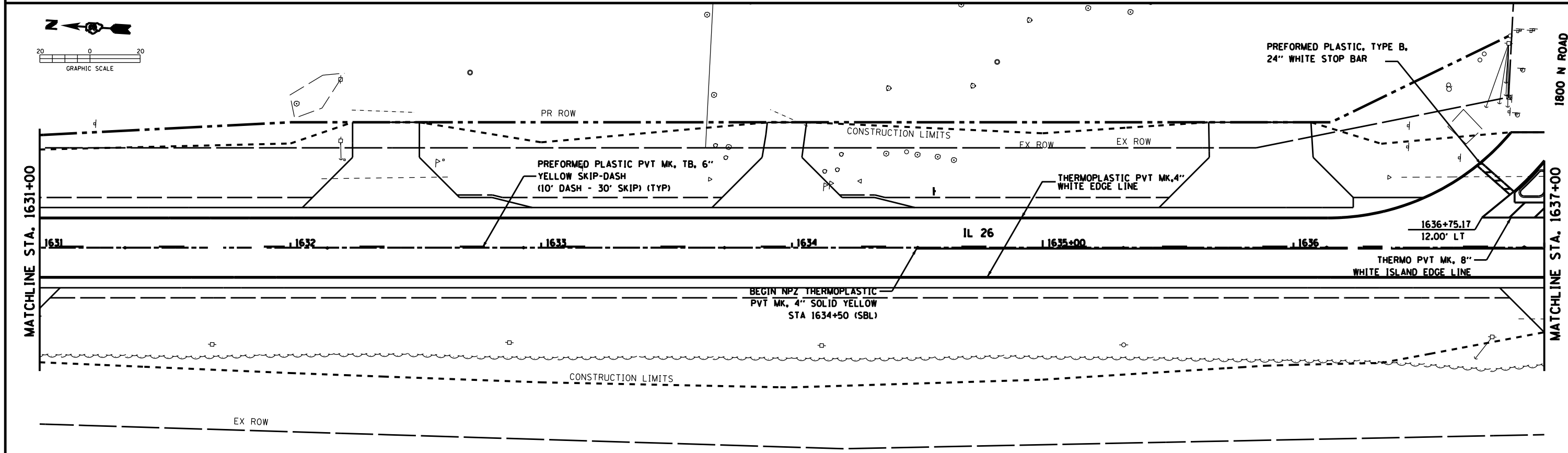
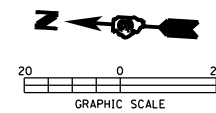
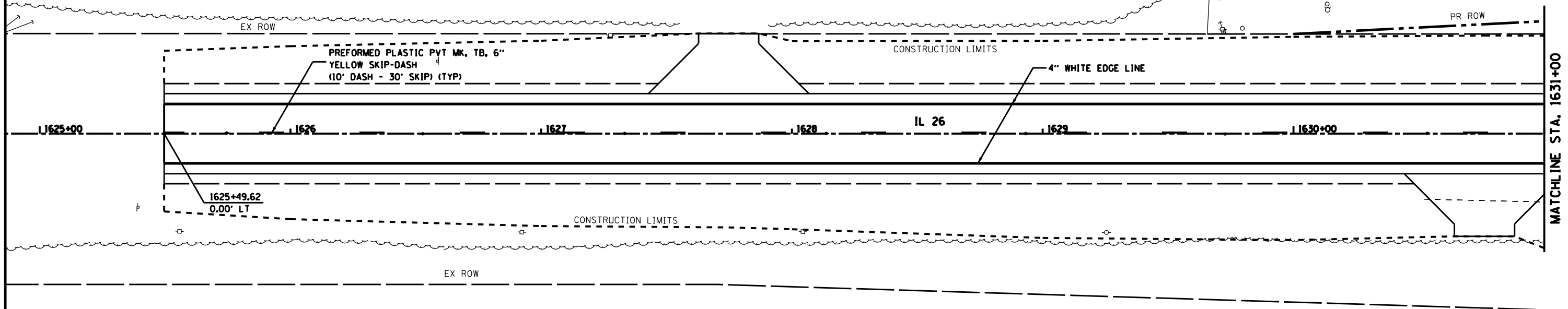
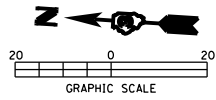
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

INTERSECTION DETAIL SHEETS

SCALE: SHEET NO. 4 OF 4 SHEETS STA. 1625+49.62 TO STA. 295+14.27

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(116) R,T	BUREAU	221	104
CONTRACT NO. 66901				
ILLINOIS FED. AID PROJECT				



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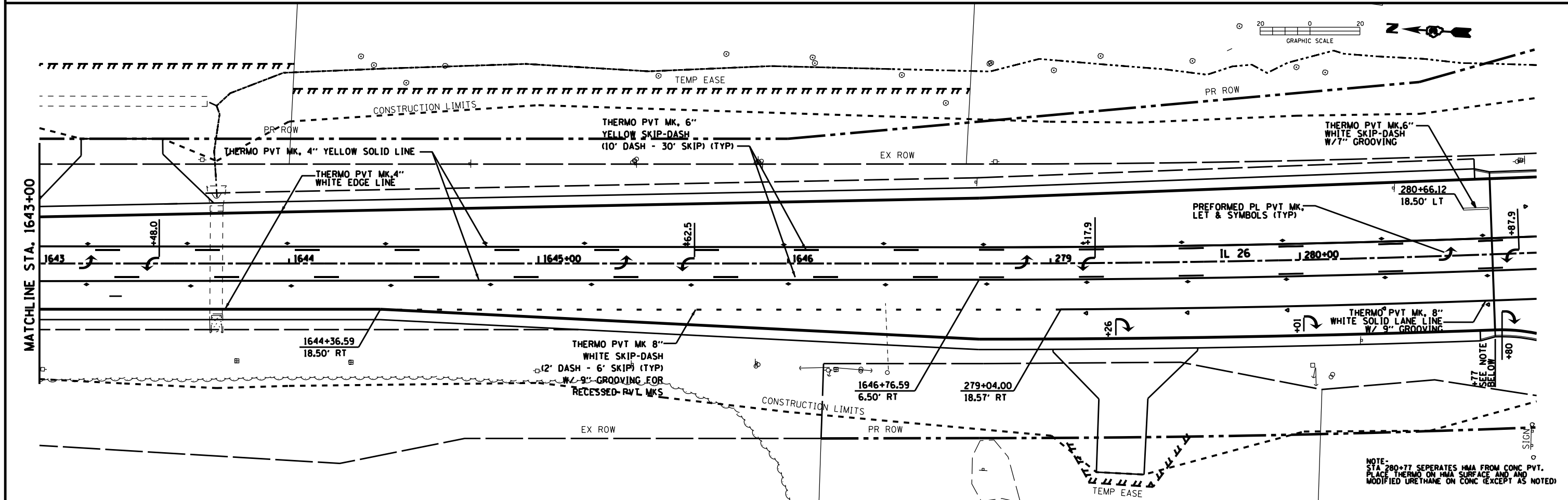
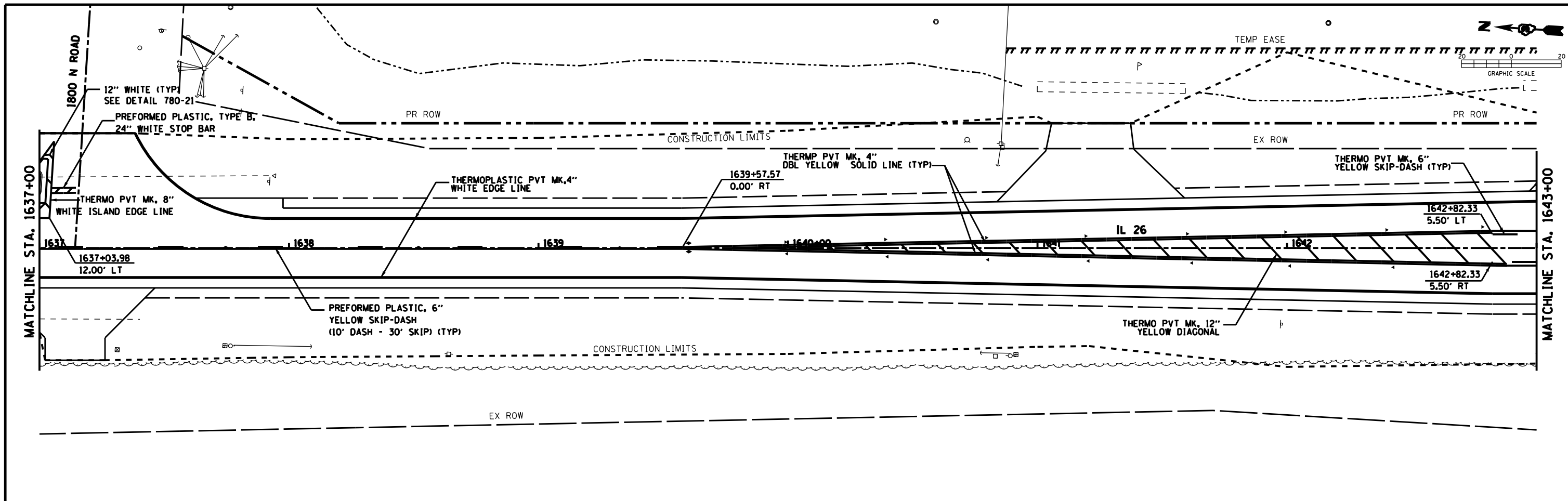
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN SHEETS  
 SCALE: SHEET NO. 1 OF 5 SHEETS STA. 1625+49.62 TO STA. 1637+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(116) R,T	BUREAU	221	105
CONTRACT NO. 66901				
ILLINOIS FED. AID PROJECT				



NOTE:  
 STA 280+77 SEPARATES HMA FROM CONC PVT.  
 PLACE THERMO ON HMA SURFACE AND  
 MODIFIED URETHANE ON CONC (EXCEPT AS NOTED)

FILE NAME =  
 D03306-SHT-PMK.DGN

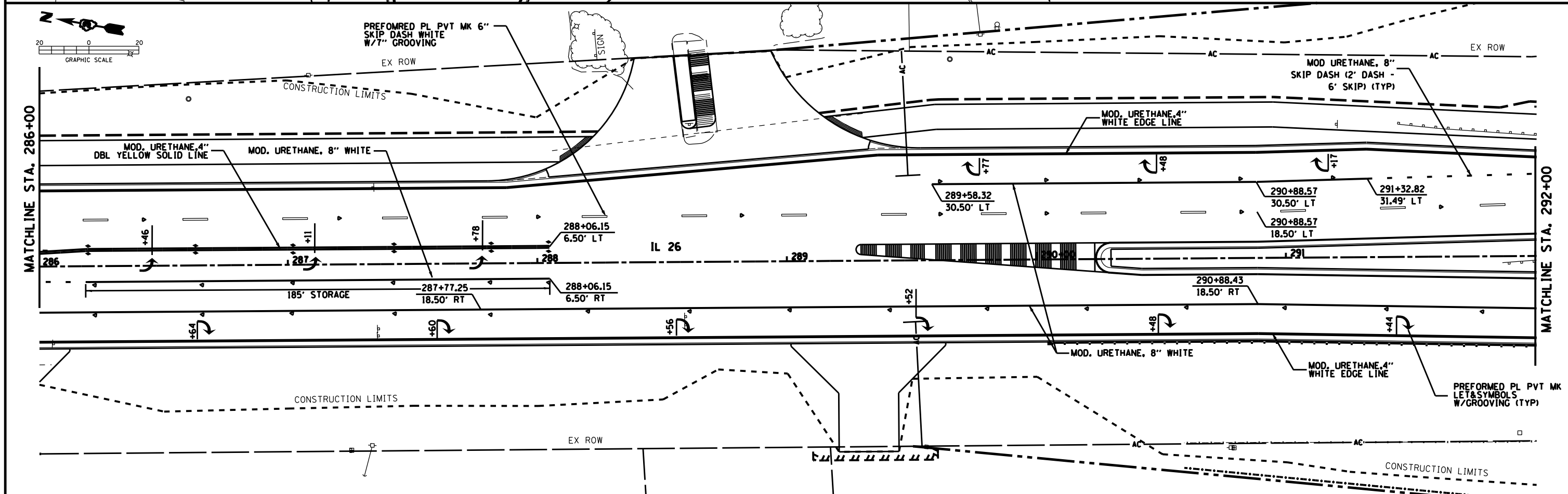
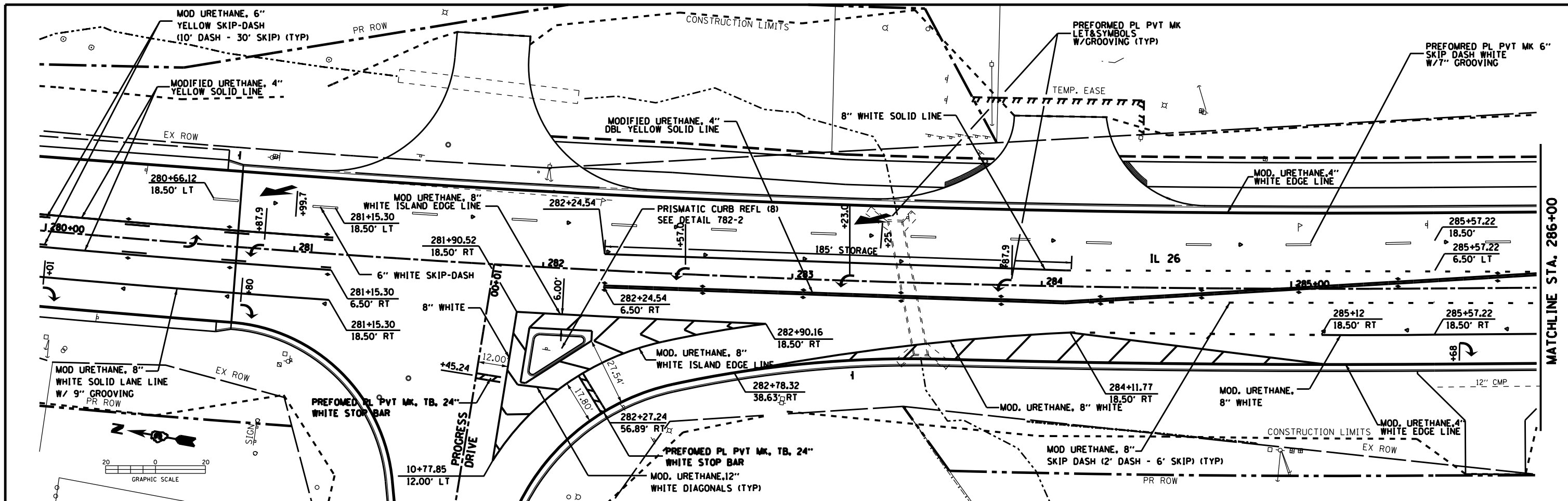
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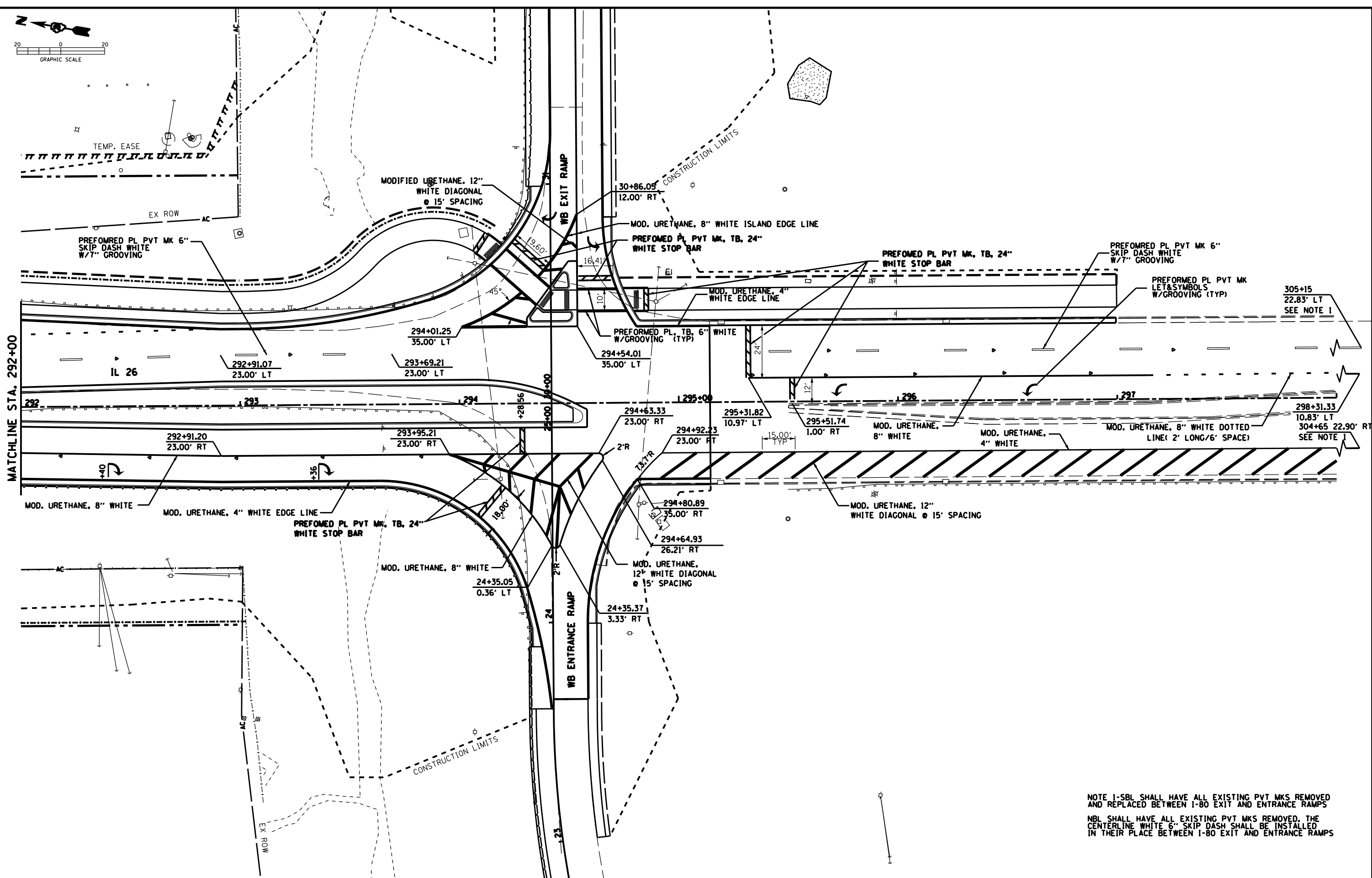
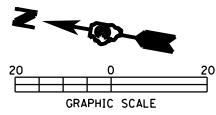
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN SHEETS  
 SCALE: SHEET NO. 2 OF 5 SHEETS STA. 1637+00 TO STA. 280+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(116) R,T	BUREAU	221	106
CONTRACT NO. 66901				
ILLINOIS FED. AID PROJECT				



FILE NAME = D03306-SHT-PMK.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING PLAN SHEETS		F.A.P. RTE. 316	SECTION (116) R,T	COUNTY BUREAU	TOTAL SHEETS 221	SHEET NO. 107
	PLOT SCALE = 20.0' / IN.	DRAWN - RAMIREZ, P	REVISED -		SCALE:	SHEET NO. 3 OF 5 SHEETS	STA. 280+00 TO STA. 292+00	CONTRACT NO. 66901		ILLINOIS FED. AID PROJECT	
PLOT DATE = \$DATE\$	DATE - \$DATE\$	CHECKED - JOHNSON, B	REVISED -								

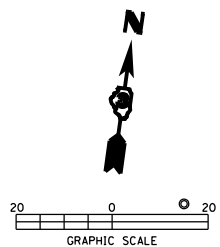
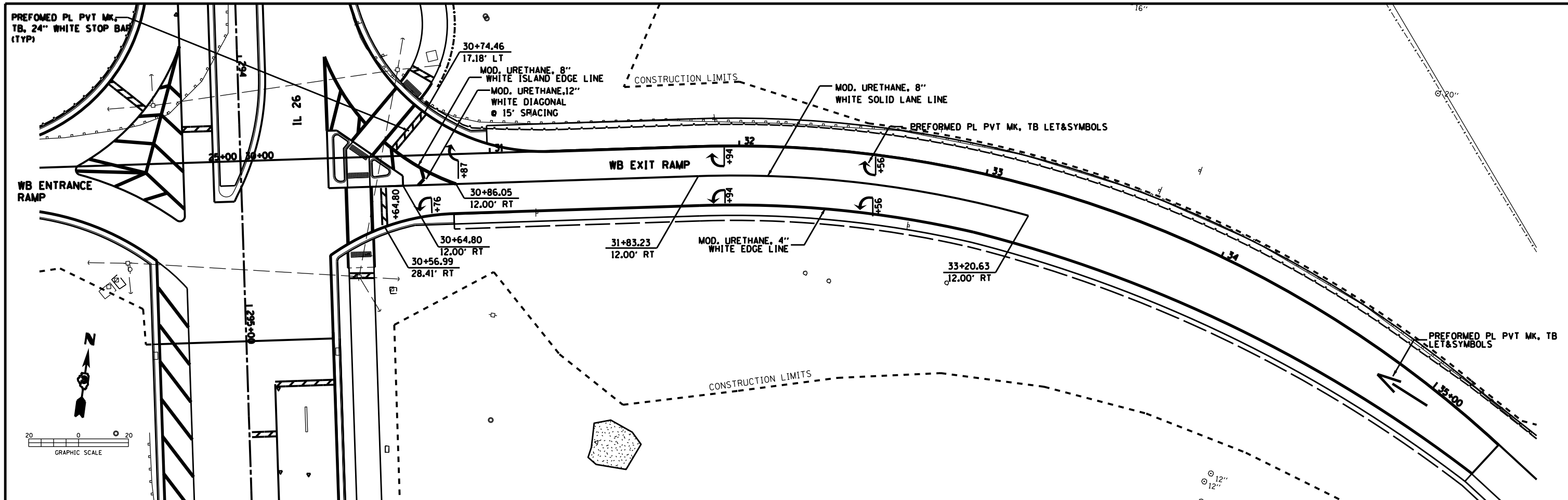


NOTE 1-SBL SHALL HAVE ALL EXISTING PVT MKS REMOVED AND REPLACED BETWEEN I-80 EXIT AND ENTRANCE RAMP

NBL SHALL HAVE ALL EXISTING PVT MKS REMOVED. THE CENTERLINE WHITE 6" SKIP DASH SHALL BE INSTALLED IN THEIR PLACE BETWEEN I-80 EXIT AND ENTRANCE RAMP

FILE NAME = D03306-SHT-PMK.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING PLAN SHEETS		F.A.P. RTE. = 316	SECTION (116) R,T	COUNTY BUREAU	TOTAL SHEETS 221	SHEET NO. 108
	PLOT SCALE = 20.0' / IN.	CHECKED - JOHNSON, B	REVISED -		SCALE: SHEET NO. 4 OF 5 SHEETS	STA. 292+00 TO STA. 295+14.27	CONTRACT NO. 66901		ILLINOIS FED. AID PROJECT		
PLOT DATE = \$DATE\$	DATE - \$DATE\$	REVISOR -	REVISOR -								





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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN SHEETS  
 SCALE: SHEET NO. 5 OF 5 SHEETS STA. 30+00 TO STA. 35+18.63

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(116) R,T	BUREAU	221	109
CONTRACT NO. 66901				
ILLINOIS FED. AID PROJECT				

**TRAFFIC SIGNAL GENERAL NOTES:**

1. THE CONTRACTOR SHALL CONTACT THE CITY OF PRINCETON (815-875-2631) A MINIMUM OF 72 HOURS PRIOR TO BEGINNING WORK.
2. THE TRAFFIC SIGNAL SECTION AT THE ILLINOIS DEPARTMENT OF TRANSPORTATION, DISTRICT 3, SHALL BE NOTIFIED AT 815-434-8506 AT LEAST 72 HOURS PRIOR TO TURNING ON ANY FLASHER OR CONTROLLER UNITS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123.
4. ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH SECTION 701 OF THE STANDARD SPECIFICATIONS.
5. ALL TRAFFIC SIGNAL HEADS SHALL BE 12-INCH POLYCARBONATE.
6. TRAFFIC SIGNAL HEADS SHALL BE PROPERLY COVERED PRIOR TO INTERSECTION TURN-ON OR AS DIRECTED BY THE ENGINEER. THIS COST SHALL BE INCLUDED WITH THE COST OF THE ASSOCIATED TRAFFIC SIGNAL PAY ITEMS.
7. A 1/4" DIAMETER CONTINUOUS RODENT RESISTANT NYLON ROPE SHALL BE FURNISHED AND LEFT IN PLACE IN ALL CONDUITS BETWEEN HANDHOLES AND FOUNDATIONS OR CONTROLLER. THIS COST SHALL BE INCLUDED WITH THE COST OF CONDUIT PAY ITEMS.
8. THE CONTRACTOR SHALL ARRANGE FOR A FACTORY OR SUPPLIER REPRESENTATIVE TO BE PRESENT AT THE INTERSECTION WHEN THE SIGNAL IS TURNED ON. COST TO BE INCLUDED WITH THE TRAFFIC SIGNAL CONTROLLER PAY ITEM.
9. ALL CONDUIT IN TRENCH SHALL BE P.V.C. ALL CONDUIT PUSHED MAY BE P.V.C. OR GALVANIZED STEEL. CONDUIT ATTACHED TO STRUCTURES SHALL BE GALVANIZED STEEL.
10. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT A GREATER THAN 2' MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
11. THE ELECTRICAL CONDUCTORS FOR ALL TRAFFIC SIGNAL HEADS SHALL BE SOLID, SOFT COPPER.
12. ALL THREADS OF BOLTS USED IN THE ASSEMBLY OF TRAFFIC SIGNAL COMPONENTS SHALL BE COATED WITH A NON-LEAD BASED ANTI-SEIZE COMPOUND, SIMILAR TO LEAD PLATE, PRIOR TO ASSEMBLY.
13. ALL HARDWARE SHALL BE TIGHTENED AND WELL SECURED. CABLES SHALL BE NEATLY WOUND IN HANDHOLES. CABLES SHALL BE NEATLY TRAINED IN THE CONTROLLER CABINET.
14. ALL TRAFFIC SIGNAL WIRING SHALL EXTEND FROM CONTROLLER TO SIGNAL. SPLICES IN JUNCTION BOXES WILL NOT BE ALLOWED.
15. THE CONTROLLER CABINET SHALL BE PLACED SO THAT A TECHNICIAN MAY SEE THE INTERSECTION OVER THE TOP OF THE CABINET WHILE WATCHING THE COMPONENTS IN THE CABINET.
16. THE PROPOSED TRAFFIC SIGNAL CONTROLLER CABINET SHALL BE FURNISHED WITH A MANUAL CONTROL SWITCH AND MANUAL CONTROL CHORD WITHIN THE POLICE DOOR COMPARTMENT. THIS WORK SHALL BE INCLUDED IN THE CONTROLLER CABINET PAY ITEM.
17. THE CONTRACTOR SHALL PROVIDE A SELF-ADHERED PHASE DIAGRAM ON THE INSIDE OF THE CONTROLLER CABINET DOOR.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ELECTRICAL SERVICE FOR THE TRAFFIC SIGNALS. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANY PRIOR TO BEGINNING WORK TO OBTAIN THE UTILITY COMPANY REQUIREMENTS FOR THE SERVICE INSTALLATION.
19. BACKPLATES SHALL BE POLYCARBONATE, LOUVERED FORMED BACKPLATES.
20. ALL VEHICLE AND PEDESTRIAN SIGNAL HEADS SHALL HAVE POLYCARBONATE BLACK HOUSING AND BLACK BRACKETS.
21. THE ELEVATION OF THE TOP OF THE DOUBLE HANDHOLE SHALL BE LESS THAN THE ELEVATION OF THE TOP OF THE CONTROLLER FOUNDATION.
22. ALL UNINTERRUPTIBLE POWER SUPPLIES SHALL BE EQUIPPED WITH ALPHA GUARD MONITORS.
23. ALL GROUNDING MATERIALS FOR CONCRETE FOUNDATIONS SHALL REFER TO SECTION 807 OF THE STANDARD SPECIFICATIONS.
24. ALL AREAS DISTURBED BY THE CONTRACTOR SHALL BE RESTORED WITH SEED OR SOD TO THE SATISFACTION OF THE ENGINEER. SEEDING OR SODDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET OR IN AN UNTILLABLE CONDITION.
25. THE FIBER OPTIC CABLE SHALL BE LABELED WITH DIRECTION AND ASSIGNMENT NUMBER.
26. THE SURGE PROTECTOR IN THE CONTROLLER CABINET SHALL HAVE AN INDICATOR LIGHT.
27. THE MAST ARMS SHALL BE LOCATED A MINIMUM 6' FROM THE FACE OF CURB OR A MINIMUM 18' FROM THE EDGE OF PAVEMENT TO THE FACE OF FOUNDATION WHERE THERE IS NO CURB, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. IN CURB AREA, GET MORE THAN 6' IF POSSIBLE IF THE SIGNAL HEAD STILL LINES UP IN CENTER OF LANE.
28. IF THERE IS A PAY ITEM, CHANGEABLE MESSAGE SIGNS ARE REQUIRED FOR BOTH DIRECTIONS. ONE WEEK PRIOR TO SIGNAL TURN-ON, THE MESSAGE SHOULD READ "NEW SIGNAL AHEAD/TURN ON DATE." FOR THREE WEEKS AFTER, THE MESSAGE SHOULD READ "NEW SIGNAL AHEAD/BE PREPARED TO STOP."

**TRAFFIC SIGNAL GENERAL NOTES (CONTINUED):**










29. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND-DIGGING AROUND THE UTILITIES AS NECESSARY. THIS WORK SHALL BE INCLUDED IN THE COST OF THE CONDUIT PAY ITEMS.
30. THE CONTRACTOR SHALL PROVIDE 3 FEET OF SLACK CABLE IN EACH TRAFFIC SIGNAL STRUCTURE: MAST ARM, POST, CONTROLLER, HANDHOLES, AND DOUBLE HANDHOLES. THE SLACK, WHICH IS IN ADDITION TO THE VERTICAL LENGTH OF CABLE DEFINED IN THE SPECIFICATIONS, SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR EACH CABLE. THESE REQUIREMENTS SHALL BE IN ADDITION TO THE EXTRA CABLE REQUIREMENTS AS SPECIFIED IN SECTIONS 871 AND 873 OF THE STANDARD SPECIFICATIONS.

**TEMPORARY TRAFFIC SIGNAL GENERAL NOTES:**










1. ALL SIGNAL HEADS ON AN INDIVIDUAL SPAN WIRE SHALL BE MOUNTED SO THAT THE "RED" INDICATIONS ARE LEVEL WITH EACH OTHER.
2. THE CONTRACTOR SHALL FURNISH ENOUGH SLACK CABLE TO RELOCATE THE SIGNAL HEADS TO ANY POSITION REQUIRED FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNALS SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS.
3. TEMPORARY WOOD POLES SHALL BE LOCATED A MINIMUM OF 6' FROM THE FACE OF CURB OR A MINIMUM 18' FROM THE EDGE OF PAVEMENT WHERE THERE IS NO CURB, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
4. ALL TEMPORARY WOOD POLES SHALL BE INSTALLED SO THAT A MINIMUM OF 30' OF POLE IS ABOVE THE EXISTING PAVEMENT ELEVATION ADJACENT TO THE POLE. A SUFFICIENT LENGTH OF POLE SHALL BE BURIED AND BACK GUYED TO ALLOW THE INSTALLATION TO WITHSTAND A 70 M.P.H. SUSTAINED WIND LOADING.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING THE WOOD POLE LOCATIONS BEFORE ORDERING TO DETERMINE IF LONGER POLES ARE REQUIRED.
6. ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.
7. ONLY CONTROLLERS SUPPLIED BY ONE OF THE DISTRICT APPROVED CLOSED LOOP EQUIPMENT MANUFACTURERS WILL BE APPROVED FOR USE AT TEMPORARY SIGNAL LOCATIONS. ALL CONTROLLERS USED FOR TEMPORARY TRAFFIC SIGNALS SHALL BE FULLY ACTUATED NEMA MICROPROCESSOR BASED WITH RS232 DATA ENTRY PORTS COMPATIBLE WITH EXISTING MONITORING SOFTWARE APPROVED BY IDOT DISTRICT 3, INSTALLED IN A NEMA TS2 CABINET. ONLY ONE BRAND OF CONTROLLER WILL BE ACCEPTED FOR ANY ONE CONTRACT.
8. ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12" (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT A RAILROAD INTERSECTION. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.
9. ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.
10. ANY TEMPORARY SIGNAL WITHIN AN EXISTING CLOSED LOOP TRAFFIC SIGNAL SYSTEM SHALL BE INTERCONNECTED TO THAT SYSTEM USING SIMILAR BRAND CONTROL EQUIPMENT.
11. THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.
12. UNINTERRUPTIBLE POWER SUPPLY (UPS) SYSTEMS SHALL BE INSTALLED AND MADE OPERATIONAL AT TEMPORARY TRAFFIC SIGNAL INSTALLATIONS WHERE UPS IS INSTALLED AT THE EXISTING TRAFFIC SIGNAL, TEMPORARY TRAFFIC SIGNALS AT RAILROAD INTERSECTIONS, AND TEMPORARY TRAFFIC SIGNALS AT INTERSECTIONS WITH FIRE STATION ACTUATED EMERGENCY VEHICLE PRE-EMPTION, OR WHEN INDICATED ON THE PLANS.
13. TRAFFIC SIGNAL MANAGEMENT SYSTEMS SHALL BE MAINTAINED IN OPERATION AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. REQUIRED EQUIPMENT SHALL BE AS SHOWN ON THE PLANS AND THE CONTRACTOR SHALL PLACE THE EQUIPMENT IN OPERATION TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE TRAFFIC SIGNAL MANAGEMENT SYSTEM.
14. DETECTION AT TEMPORARY TRAFFIC SIGNALS SHALL BE INCLUDED FOR ALL APPROACHES OF THE INTERSECTION UNLESS INDICATED OTHERWISE ON THE PLANS. THE DETECTION SYSTEM MUST MEET THE SPECIFICATIONS OF DISTRICT 3 AND THE CONTRACTOR SHALL PLACE THE DETECTORS INTO OPERATION TO THE SATISFACTION OF THE ENGINEER.
15. WHEN PAN, TILT, ZOOM CAMERAS ARE INSTALLED AT THE EXISTING INTERSECTION OR ARE CALLED FOR IN THE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING AND MAINTAINING THE CAMERAS TO THE SATISFACTION OF THE ENGINEER AND THE AGENCY RESPONSIBLE FOR THE CAMERAS.

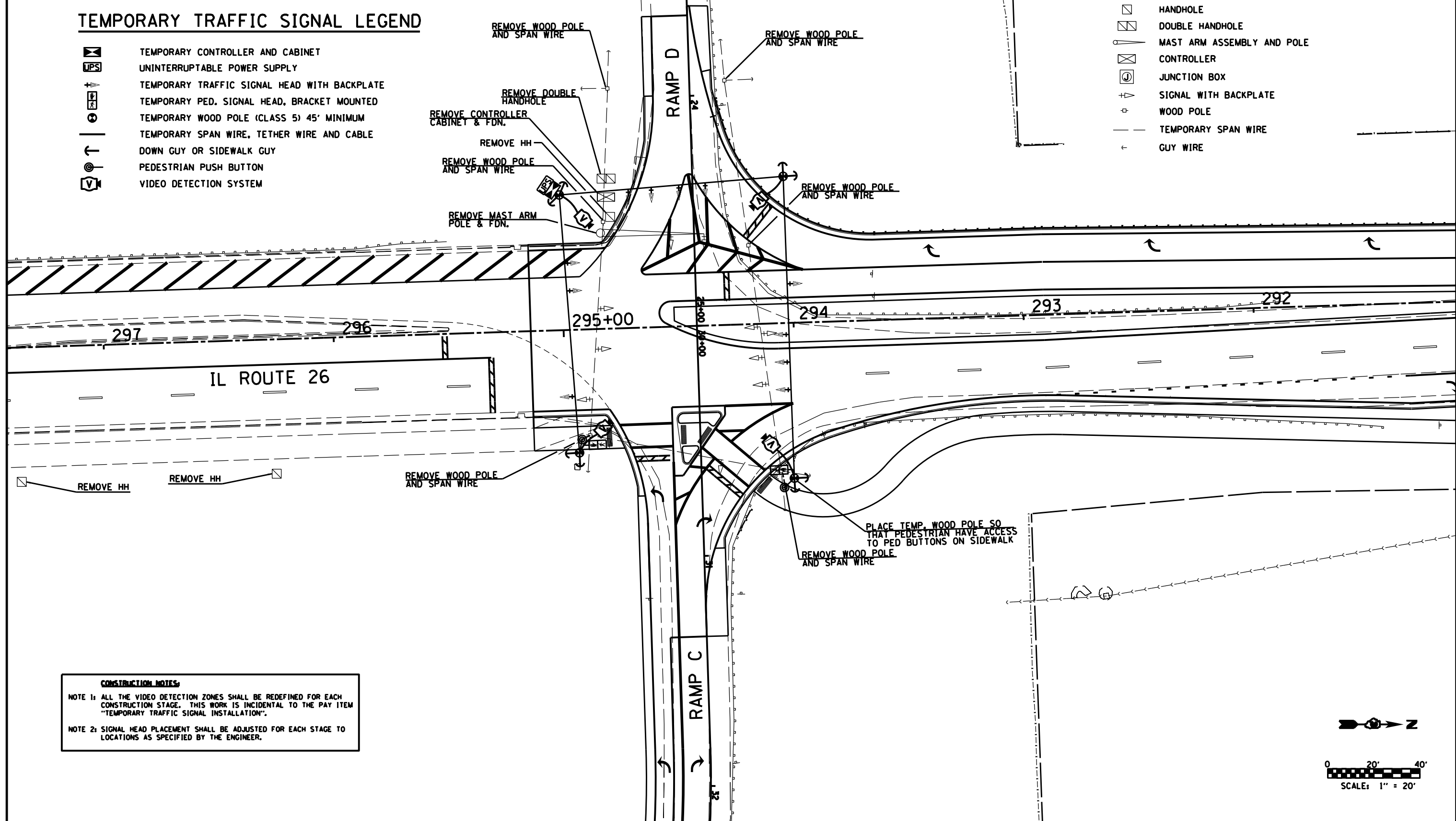
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	PLOT SCALE = N/A	DRAWN - CV	REVISED -		SCALE: NONE	SHEET NO. 1 OF 8 SHEETS	STA.	TO STA.	316	(116) R,T	BUREAU	221
PLOT DATE = 03/01/2010	CHECKED - KC	DATE - 07/2012	REVISED -	IL ROUTE 26 WITH FAI-80 RAMPS C & D			CONTRACT NO. 66901			ILLINOIS FED. AID PROJECT		

### TEMPORARY TRAFFIC SIGNAL LEGEND

-  TEMPORARY CONTROLLER AND CABINET
-  UNINTERRUPTIBLE POWER SUPPLY
-  TEMPORARY TRAFFIC SIGNAL HEAD WITH BACKPLATE
-  TEMPORARY PED. SIGNAL HEAD, BRACKET MOUNTED
-  TEMPORARY WOOD POLE (CLASS 5) 45' MINIMUM
-  TEMPORARY SPAN WIRE, TETHER WIRE AND CABLE
-  DOWN GUY OR SIDEWALK GUY
-  PEDESTRIAN PUSH BUTTON
-  VIDEO DETECTION SYSTEM

### EXISTING SIGNAL LEGEND

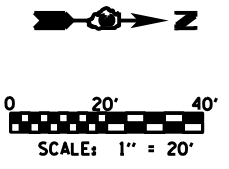
-  HANDHOLE
-  DOUBLE HANDHOLE
-  MAST ARM ASSEMBLY AND POLE
-  CONTROLLER
-  JUNCTION BOX
-  SIGNAL WITH BACKPLATE
-  WOOD POLE
-  TEMPORARY SPAN WIRE
-  GUY WIRE



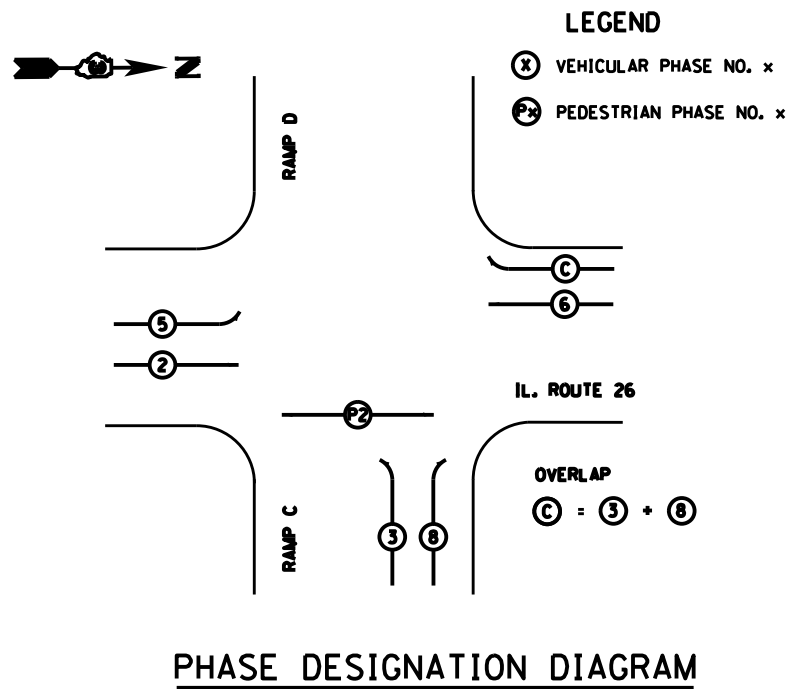
**CONSTRUCTION NOTES:**

NOTE 1: ALL THE VIDEO DETECTION ZONES SHALL BE REDEFINED FOR EACH CONSTRUCTION STAGE. THIS WORK IS INCIDENTAL TO THE PAY ITEM "TEMPORARY TRAFFIC SIGNAL INSTALLATION".

NOTE 2: SIGNAL HEAD PLACEMENT SHALL BE ADJUSTED FOR EACH STAGE TO LOCATIONS AS SPECIFIED BY THE ENGINEER.



FILE NAME = D03306-sh1-Signal_TemporaryPlan.dgn	USER NAME = flin	DESIGNED - KC	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TEMPORARY TRAFFIC SIGNAL INSTALLATION &amp; REMOVE EXISTING TRAFFIC EQUIPMENT IL ROUTE 26 WITH I-80 RAMPS C &amp; D</b>	F.A.P. RTE. 316	SECTION (116) R,T	COUNTY BUREAU	TOTAL SHEETS 221	SHEET NO. 111
PLOT SCALE = 1"=20'	PLOT DATE = 03/01/2010	DRAWN - CV	REVISOR -	SCALE: 1" = 20'	SHEET NO. 2 OF 8 SHEETS	STA.	TO STA.	CONTRACT NO. 66901		
										ILLINOIS FED. AID PROJECT



**REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH**

THE FOLLOWING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED AND DELIVERED BY THE CONTRACTOR TO THE CITY OF PRINCETON, IF IT IS NOT BEING USED FOR TEMPORARY TRAFFIC SIGNAL INSTALLATION.

- 1 EACH CONTROLLER AND CABINET COMPLETE
- 1 EACH MAST ARM ASSEMBLY AND POLE
- 10 EACH SIGNAL HEAD AND BACKPLATE
- 2 EACH PEDESTRIAN SIGNAL HEAD
- 2 EACH PUSHBUTTON

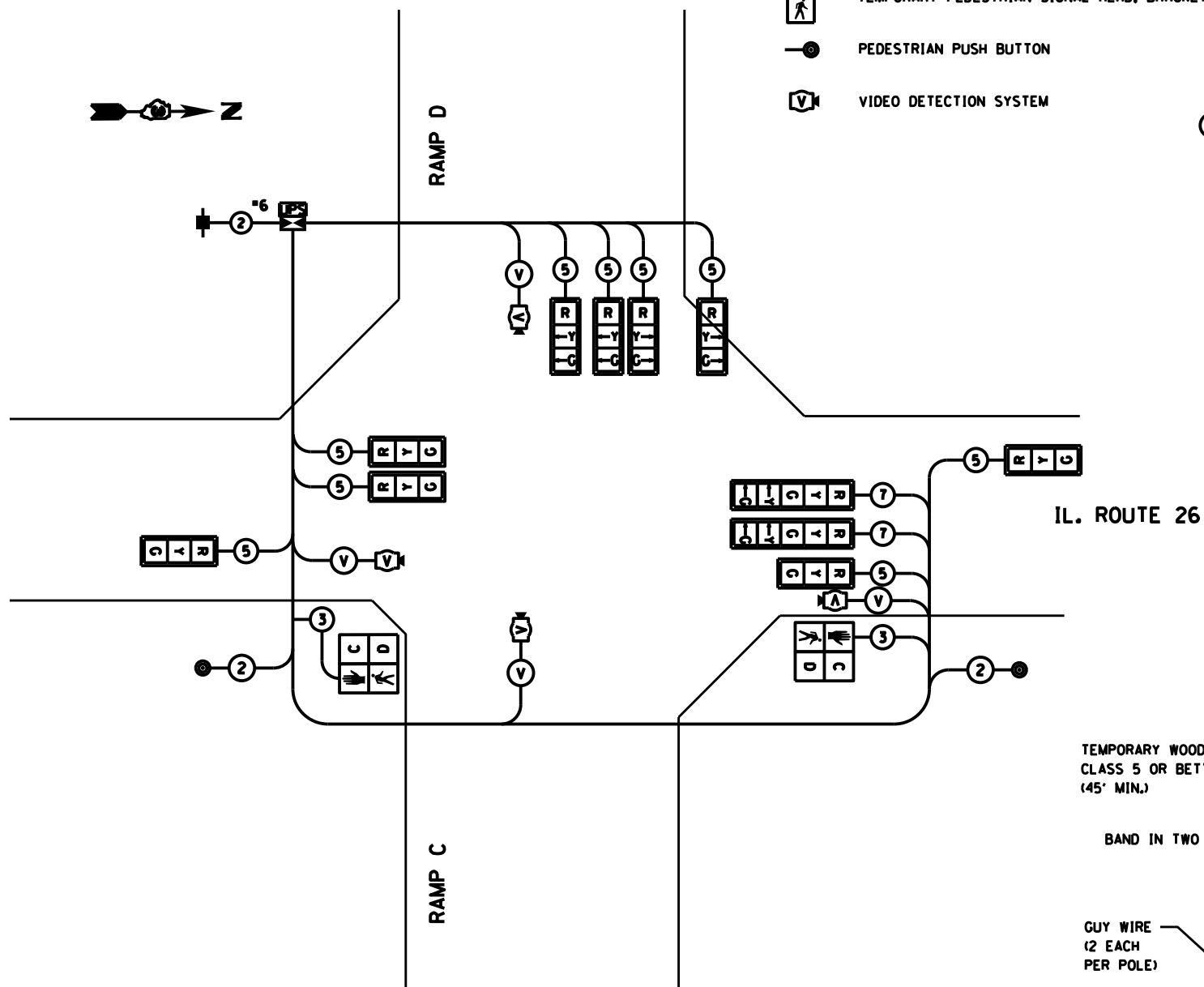
THE FOLLOWING ITEMS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR OFF THE RIGHT-OF-WAY, IF IT IS NOT BEING USED FOR THE TEMPORARY TRAFFIC SIGNAL INSTALLATION. THE SALVAGE VALUE OF THIS EQUIPMENT SHALL BE REFLECTED IN THE UNIT BID PRICE OF REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.

- 2 EACH CONCRETE FOUNDATION
- 1 EACH DOUBLE HANDHOLE
- 3 EACH HANDHOLE
- 1 EACH SERVICE INSTALLATION
- 6 EACH WOOD POLE
- ALL WIRES AND CABLES
- ALL SIGN PANELS

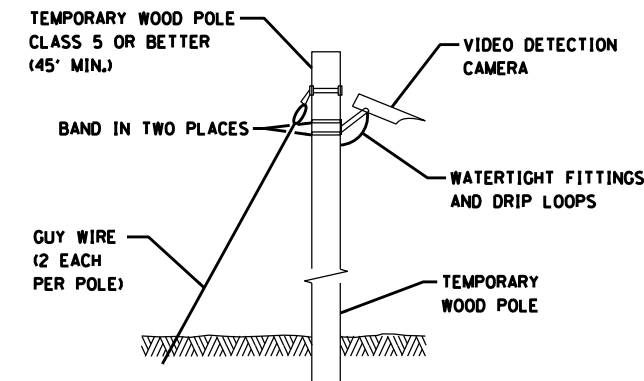
**TEMPORARY CABLE DIAGRAM LEGEND**

- ☒ TEMPORARY CONTROLLER
- UPS UNINTERRUPTABLE POWER SUPPLY
- TEMPORARY SERVICE INSTALLATION
- R  
Y  
G TEMPORARY TRAFFIC SIGNAL HEAD WITH BACKPLATE
- DENOTES NUMBER OF CONDUCTORS
- Ⓟ TEMPORARY PEDESTRIAN SIGNAL HEAD, BRACKET MOUNTED
- PEDESTRIAN PUSH BUTTON
- V VIDEO DETECTION SYSTEM

- Ⓟ VIDEO CAMERA CABLE
- 6 PAIRS, TWISTED REQUIRED
- 3 PAIRS CONDUCTOR FOR POWER  
- 24V AC (AC+, AC-, GND)
- 1 PAIR DATA
- 1 PAIR COMPOSITE VIDEO
- 1 PAIR DETECTOR DATA
- OVERALL SHIELD  
MINIMUM 16AWG (PAIRS)  
(TO BE INCLUDED IN THE BID PRICE FOR  
TEMPORARY TRAFFIC SIGNAL INSTALLATION)















**TEMPORARY CABLE DIAGRAM**

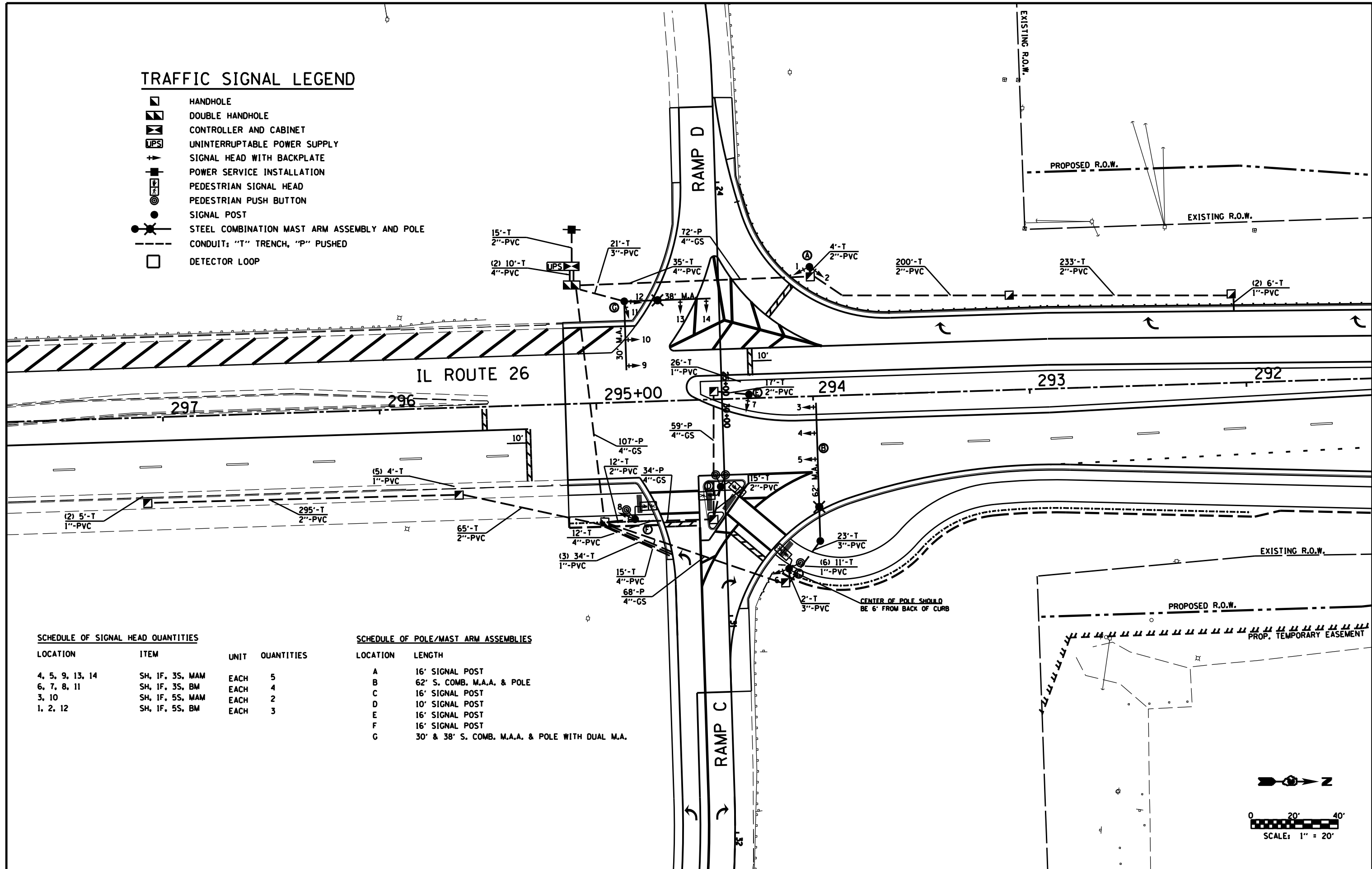


**TEMPORARY VIDEO DETECTION MOUNTING DETAIL**

FILE NAME = D03306-sh1-Signal.TemporaryCable.dgn	USER NAME = flin	DESIGNED - KC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED TEMPORARY CABLE DIAGRAM IL ROUTE 26 WITH FAI-80 RAMPS C & D			F.A.P. RTE. 316	SECTION (116) R,T	COUNTY BUREAU	TOTAL SHEETS 221	SHEET NO. 112
	PLOT SCALE = N/A	DRAWN - CV	REVISED -		SCALE: NONE	SHEET NO. 3 OF 8 SHEETS	STA.	TO STA.	CONTRACT NO. 66901			
	PLOT DATE = 03/01/2010	CHECKED - KC	REVISED -						ILLINOIS FED. AID PROJECT			
		DATE - 07/2012	REVISED -									

# TRAFFIC SIGNAL LEGEND

-  HANDHOLE
-  DOUBLE HANDHOLE
-  CONTROLLER AND CABINET
-  UNINTERRUPTIBLE POWER SUPPLY
-  SIGNAL HEAD WITH BACKPLATE
-  POWER SERVICE INSTALLATION
-  PEDESTRIAN SIGNAL HEAD
-  PEDESTRIAN PUSH BUTTON
-  SIGNAL POST
-  STEEL COMBINATION MAST ARM ASSEMBLY AND POLE
-  CONDUIT: "T" TRENCH, "P" PUSHED
-  DETECTOR LOOP

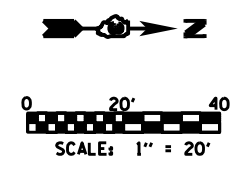


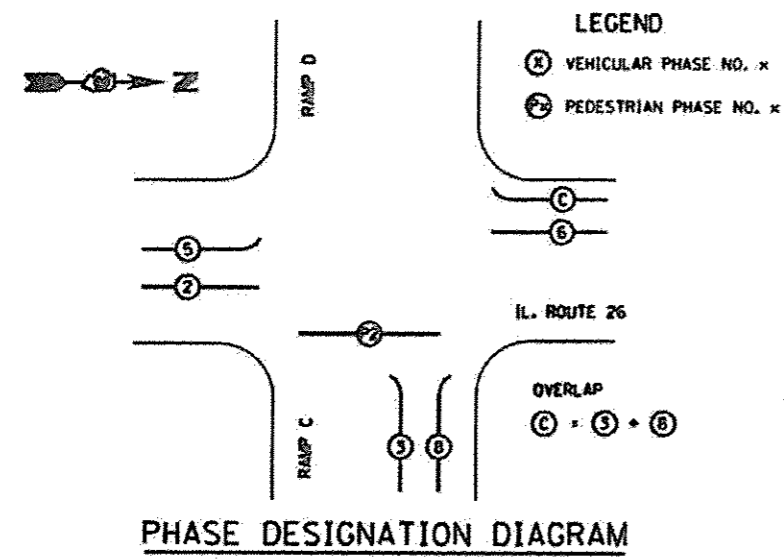
**SCHEDULE OF SIGNAL HEAD QUANTITIES**

LOCATION	ITEM	UNIT	QUANTITIES
4, 5, 9, 13, 14	SH, 1F, 3S, MAM	EACH	5
6, 7, 8, 11	SH, 1F, 3S, BM	EACH	4
3, 10	SH, 1F, 5S, MAM	EACH	2
1, 2, 12	SH, 1F, 5S, BM	EACH	3

**SCHEDULE OF POLE/MAST ARM ASSEMBLIES**

LOCATION	LENGTH
A	16' SIGNAL POST
B	62' S. COMB. M.A.A. & POLE
C	16' SIGNAL POST
D	10' SIGNAL POST
E	16' SIGNAL POST
F	16' SIGNAL POST
G	30' & 38' S. COMB. M.A.A. & POLE WITH DUAL M.A.



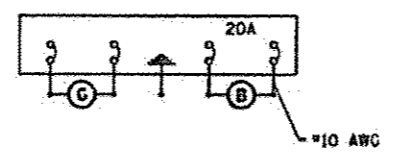


**SCHEDULE OF QUANTITIES**

DESCRIPTION	UNIT	QUANTITY
SIGN PANEL - TYPE 1	50 FT	14
SERVICE INSTALLATION, TYPE B	EACH	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	340
UNDERGROUND CONDUIT, PVC, 1" DIA.	FOOT	236
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	856
UNDERGROUND CONDUIT, PVC, 3" DIA.	FOOT	46
UNDERGROUND CONDUIT, PVC, 4" DIA.	FOOT	62
HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	9
DOUBLE HANDHOLE, PORTLAND CEMENT CONCRETE	EACH	1
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	969
LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	2
UNINTERRUPTIBLE POWER SUPPLY, EXTENDED	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	904
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	904
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	2653
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	414
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14, 1-PAIR	FOOT	5095
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	18
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	4875
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 10 FT.	EACH	1
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 16 FT.	EACH	4
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 62 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	15.0
CONCRETE FOUNDATION, TYPE C	FOOT	4.0
CONCRETE FOUNDATION, TYPE E 36 IN. DIAMETER	FOOT	10.0
CONCRETE FOUNDATION, TYPE E 42 IN. DIAMETER	FOOT	17.0
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	5
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	3
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	4
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	14
INDUCTIVE LOOP DETECTOR	EACH	12
DETECTOR LOOP, TYPE 1	FOOT	474
PREFORMED DETECTOR LOOP	FOOT	643
PEDESTRIAN PUSH-BUTTON	EACH	4
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	3
REMOVE EXISTING CONCRETE FOUNDATION	EACH	1
LIGHTING CONTROLLER, SPECIAL	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 30 FT. AND 38 FT.	EACH	1
FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL	EACH	1

**PROPOSED CABLE DIAGRAM LEGEND**

- CONTROLLER AND CABINET
- UNINTERRUPTIBLE POWER SUPPLY
- SERVICE INSTALLATION
- TRAFFIC SIGNAL HEAD WITH BACKPLATE
- PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER
- NOTES NUMBER OF CONDUCTORS
- LUMINAIRE, SODIUM VAPOR, 400 WATT
- PEDESTRIAN PUSH BUTTON
- DETECTOR LOOP
- GROUND ROD AT HANDHOLE OR DOUBLE HANDHOLE
- GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
- GROUND ROD AT ELECTRIC SERVICE INSTALLATION
- GROUND ROD AT CONTROLLER



**LIGHTING CIRCUIT DIAGRAM**

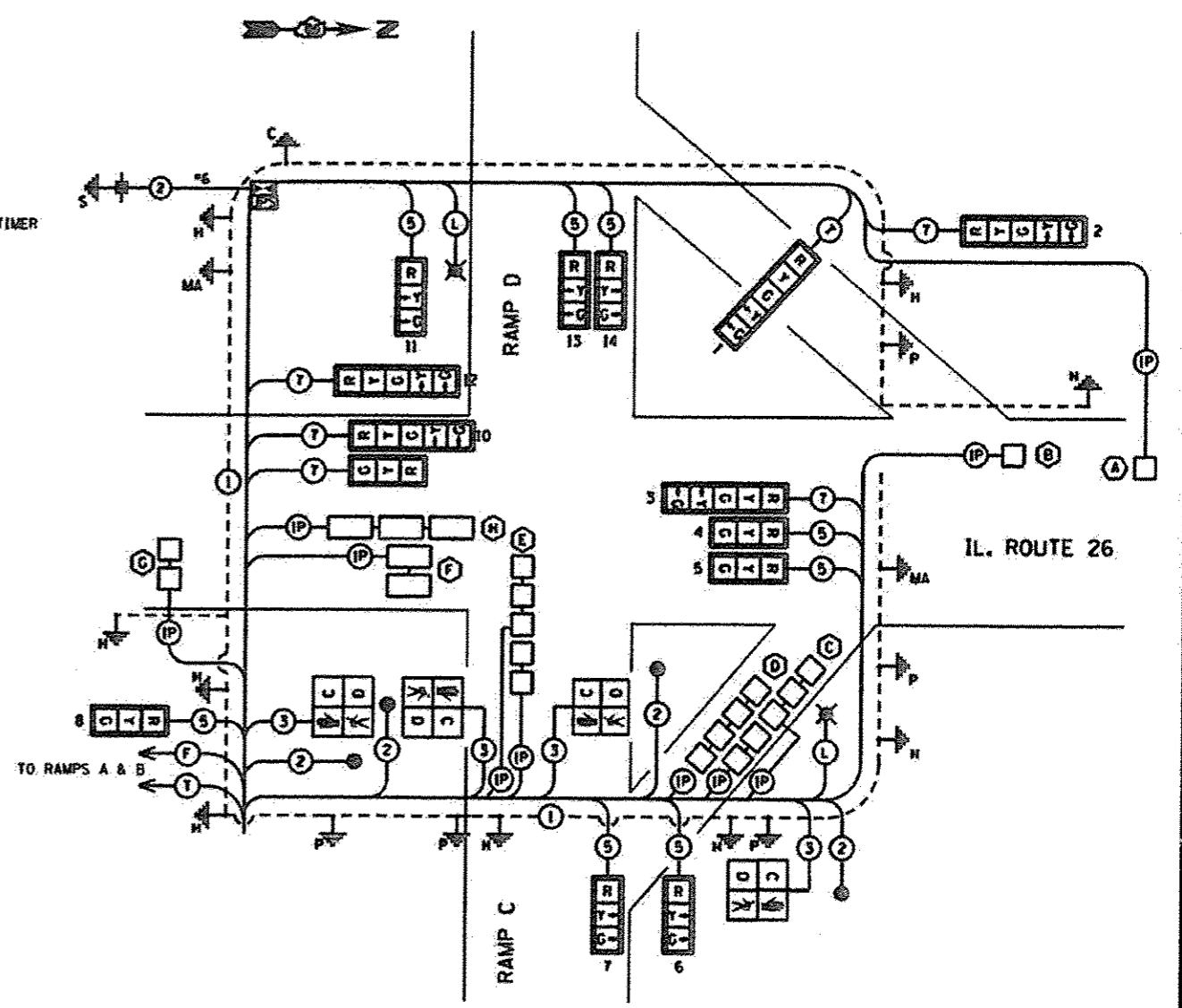
AGENCY RESPONSIBLE FOR ENERGY CHARGES:  
CITY OF PRINCETON  
CONTRACTOR PAYS ALL ENERGY CHARGES  
UNTIL PROJECT IS ACCEPTED

**INTERCONNECTION CABLE**

- (F) FIBER OPTIC CABLE, 24 FIBER SINGLE MODE
- (T) TRACER CABLE NO. 14 IC

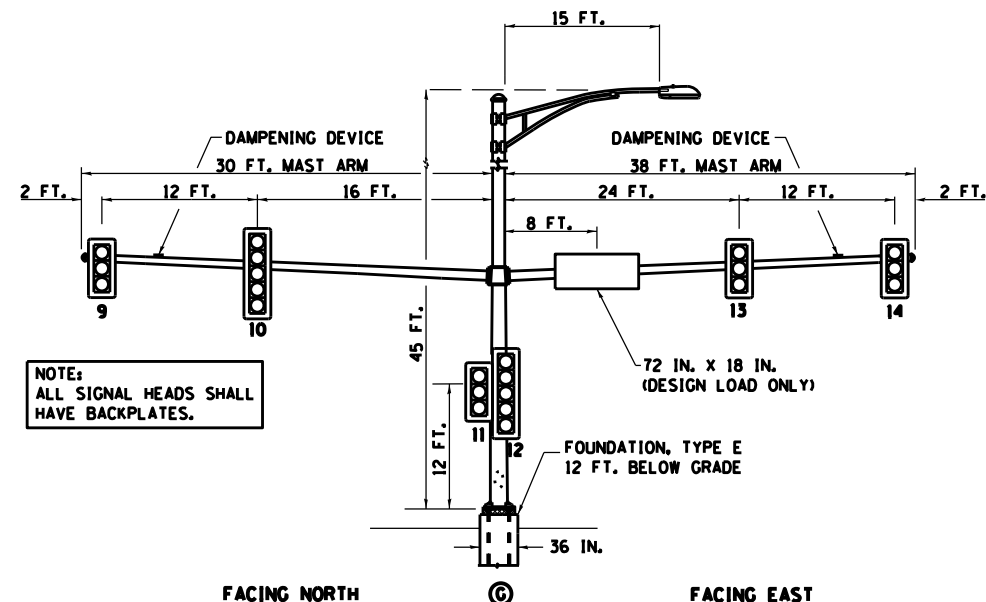
**LIGHTING CABLE**

- (L) 600V (XLP-TYPE USE) 3 - 1C NO. 10



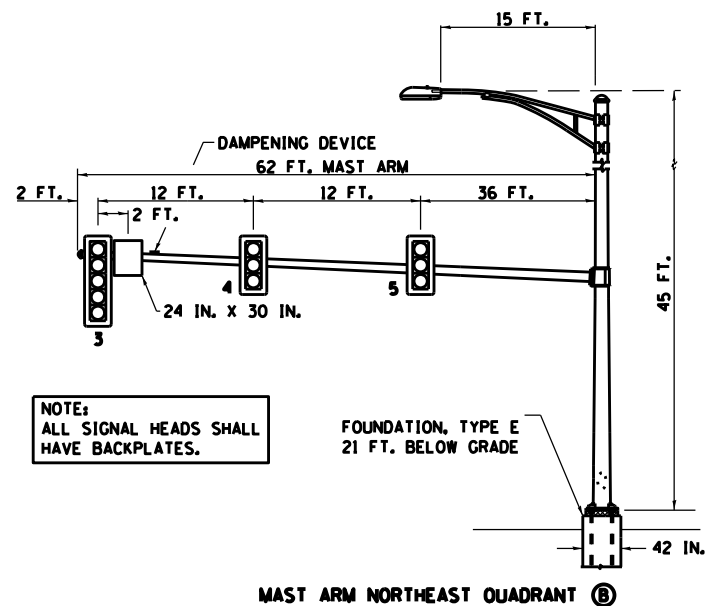
**CABLE DIAGRAM**

CONTROLLER SPECIFIED: EAGLE EPAC M50  
PUSHBUTTON SPECIFIED: BULLDOG (POLARA ENGINEERING, INC.)



NOTE:  
ALL SIGNAL HEADS SHALL  
HAVE BACKPLATES.

FACING NORTH  
FACING EAST  
MAST ARM SOUTHWEST QUADRANT



NOTE:  
ALL SIGNAL HEADS SHALL  
HAVE BACKPLATES.

MAST ARM NORTHEAST QUADRANT

NOTES:  
THE ELEVATION OF THE TOP OF THE MAST  
ARM POLE FOUNDATIONS SHALL BE DETERMINED  
BY THE ENGINEER SO THAT THE MAST  
ARM MOUNTED SIGNALS WILL PROVIDE THE PROPER  
CLEARANCE OVER THE PAVEMENT.

### ELECTRICAL LOAD CHART

IL ROUTE 26			
INDICATION	NUMBER	WATTAGE EACH	BURN TIME (%)
RED	8	11	60
YELLOW	6	22	5
GREEN	6	15	35
YELLOW ARROW	3	10	5
GREEN ARROW	3	11	35
↑	4	25	5
↓	4	25	95

RAMPS C & D			
INDICATION	NUMBER	WATTAGE EACH	BURN TIME (%)
RED	6	11	85
YELLOW ARROW	6	10	5
GREEN ARROW	6	11	10

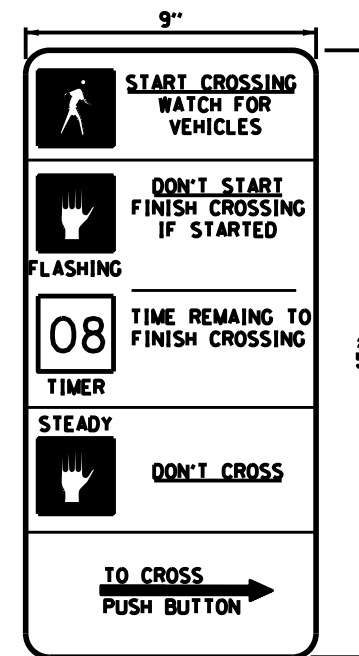
TRAFFIC SIGNAL CABINET			
ITEM	NUMBER	WATTAGE EACH	BURN TIME (%)
CONTROLLER	1	100	100
INDUCTIVE LOOP DETECTOR UNINTERRUPTABLE	10	8.5	100
POWER SUPPLY	1	1700	100

HIGHWAY LIGHTING			
ITEM	NUMBER	WATTAGE EACH	BURN TIME (%)
CONTROLLER	1	6	100
LUMINAIRES	2	400	50

AGENCY RESPONSIBLE FOR ENERGY CHARGES:

CITY OF PRINCETON  
2 SOUTH MAIN STREET  
PRINCETON, IL 61356

### PEDESTRIAN CROSSING SIGN DETAIL



R10-3E

THE CONTRACTOR SHALL SUPPLY AND MOUNT ONE SIGN AT EACH EXISTING PEDESTRIAN PUSH-BUTTON AND THIS SHALL BE INCLUDED IN THE COST OF PEDESTRIAN SIGNAL HEAD PAY ITEM.

#### 4 REQUIRED

DIMENSIONS: 9 IN. x 12 IN. (TYP.)  
LEGEND AND BORDER: NON-REFLECTORIZED BLACK  
BACKGROUND: NON-REFLECTORIZED WHITE

ONE SIGN SHALL BE PROVIDED FOR EACH PUSH-BUTTON. ORIENTATION OF DIRECTIONAL ARROWS TO BE DETERMINED BY PUSH-BUTTON LOCATION.

ALL MOUNTING HARDWARE SHALL BE STAINLESS STEEL CONSTRUCTION. ALL MOUNTING BOLTS SHALL BE HEX HEAD.

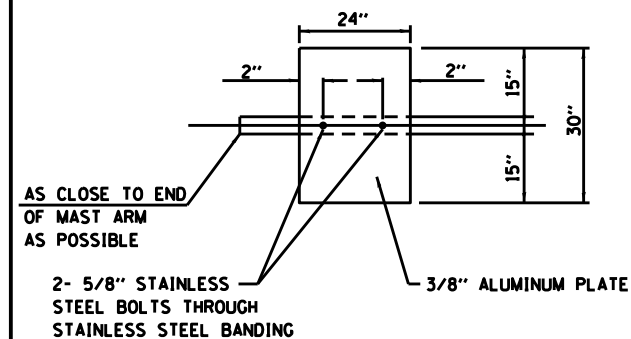
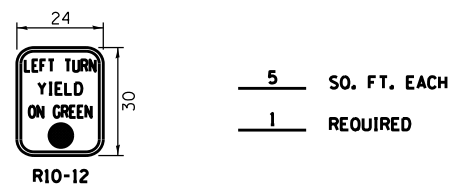
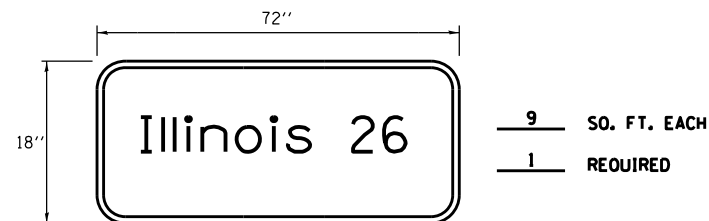
MATERIALS AND INSTALLATION OF THIS SIGN SHALL BE INCLUDED IN THE COST OF PEDESTRIAN PUSH-BUTTON.

### STREET SIGN DETAIL

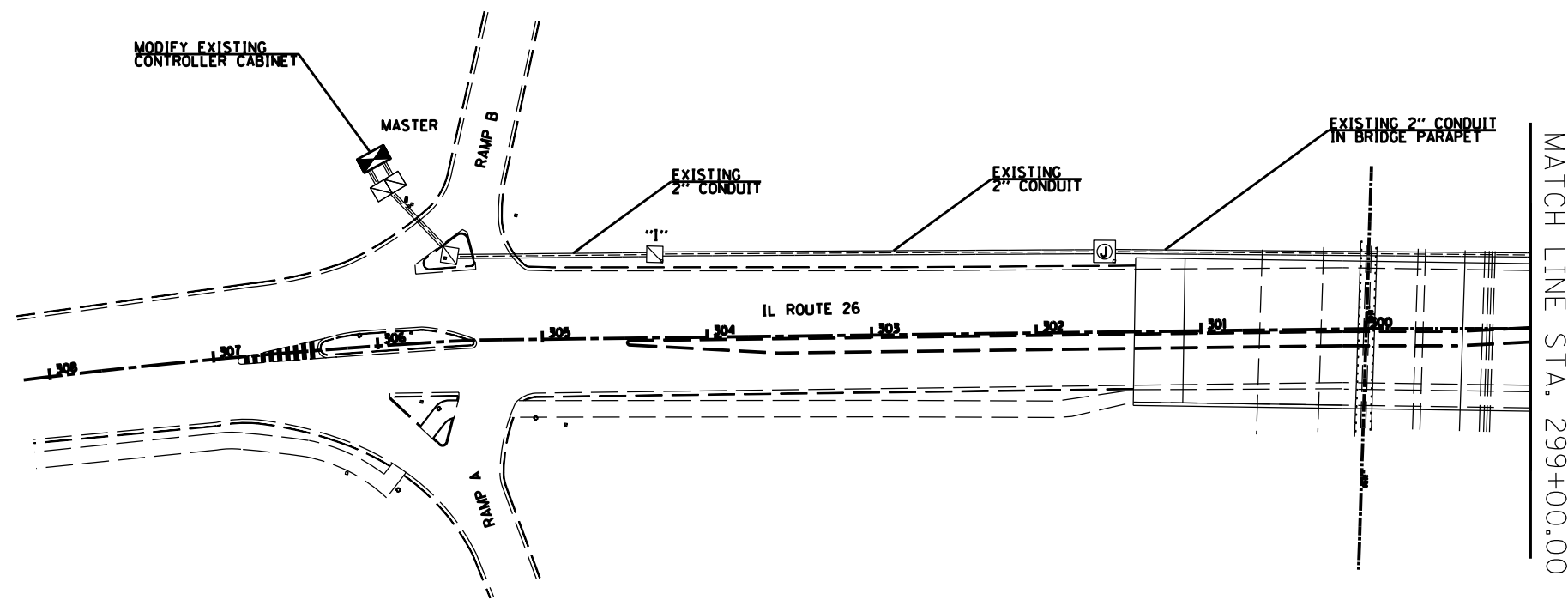
THE STREET NAME SIGN SHALL BE PLACED ON THE MAST ARM PARALLEL TO THE RESPECTIVE ROUTE AS DIRECTED BY THE ENGINEER.

#### STREET NAME SIGN:

1. TYPE ZZ SHEETING REQUIRED
2. WHITE/GREEN BACKGROUND
3. STYLE (d) - 5/8 IN. BORDER
4. 8 IN. SERIES D LETTERS
5. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SHOWN

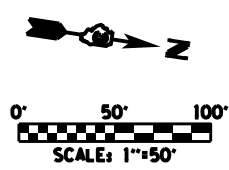
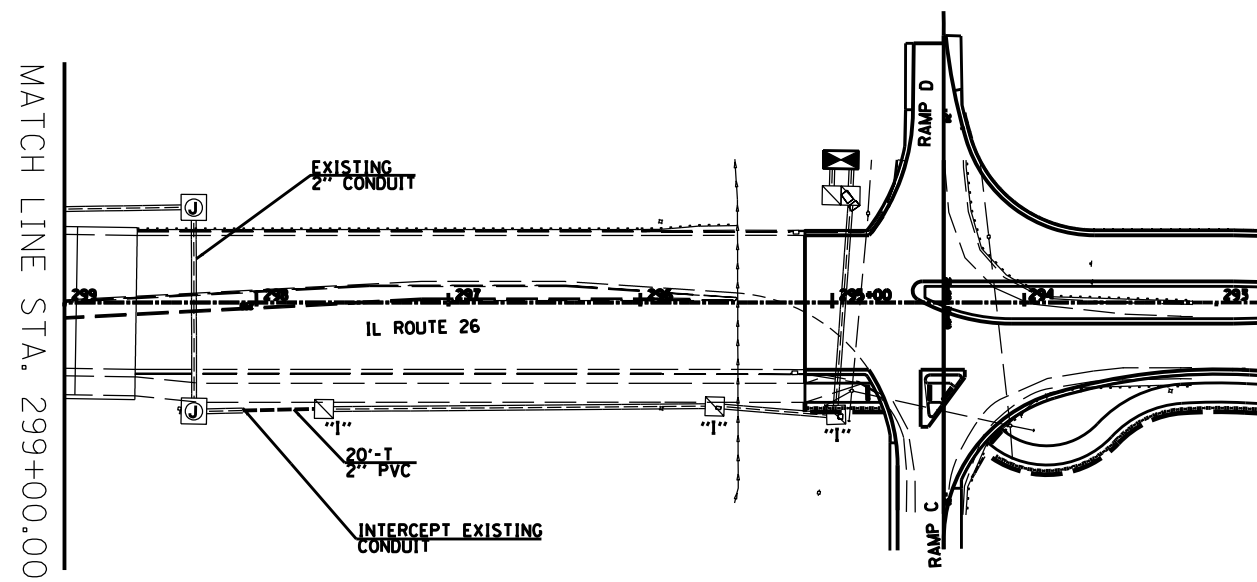


DAMPENING PLATE DETAIL  
(TOP VIEW) INCIDENTAL TO MAST ARM QUANTITY



**INTERCONNECT PLAN LEGEND**

PROPOSED	EXISTING	
		CONTROLLER
		HANDHOLE
		DOUBLE HANDHOLE
		CONDUIT: "T" TRENCHED, "P" PUSHED, "AS" ATTACHED TO STRUCTURE
"S"		"S" SYSTEM
"I"		"I" INTERSECTION
		JUNCTION BOX



FILE NAME = D03306-sh1-Interconnect_Plan.dgn	USER NAME = flin	DESIGNED - KC	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>INTERCONNECT PLAN IL ROUTE 26 WITH FAI-80 RAMPS A, B, C, &amp; D</b>			F.A.P. RTE. 316	SECTION (116) R,T	COUNTY BUREAU	TOTAL SHEETS 221	SHEET NO. 116
	PLOT SCALE = 1"=50'	DRAWN - CV	REVISED -		SCALE: 1" = 50'	SHEET NO. 7 OF 8 SHEETS	STA.	TO STA.	<b>CONTRACT NO. 66901</b>		ILLINOIS FED. AID PROJECT	
	PLOT DATE = 03/01/2010	CHECKED - KC	REVISED -									
		DATE - 07/2012	REVISED -									



**LEGEND (EXISTING)**

- GALV. STEEL CONDUIT (1MC), PUSHED (SIZE AS SHOWN)
- LIGHT POLE
- ELEC. BURIED CABLE

LOCATION NOT SURVEYED. AS-BUILD AND DESIGN CAD FILES WERE USED AS A BACKGROUND FOR THIS SHEET SINCE SURVEY INFORMATION IS NOT AVAILABLE.

THE EXISTING POLES HAVE HAD THE OLD POLE NUMBERS REMOVED AND HAVE BEEN ASSIGNED NEW POLE NUMBERS.

EXISTING LIGHTING CONTROLLER CB-RCS-100-460

COILABLE NON-METALLIC CONDUIT, 2 1/2" DIA.,

120 LF

CIRCUIT #1

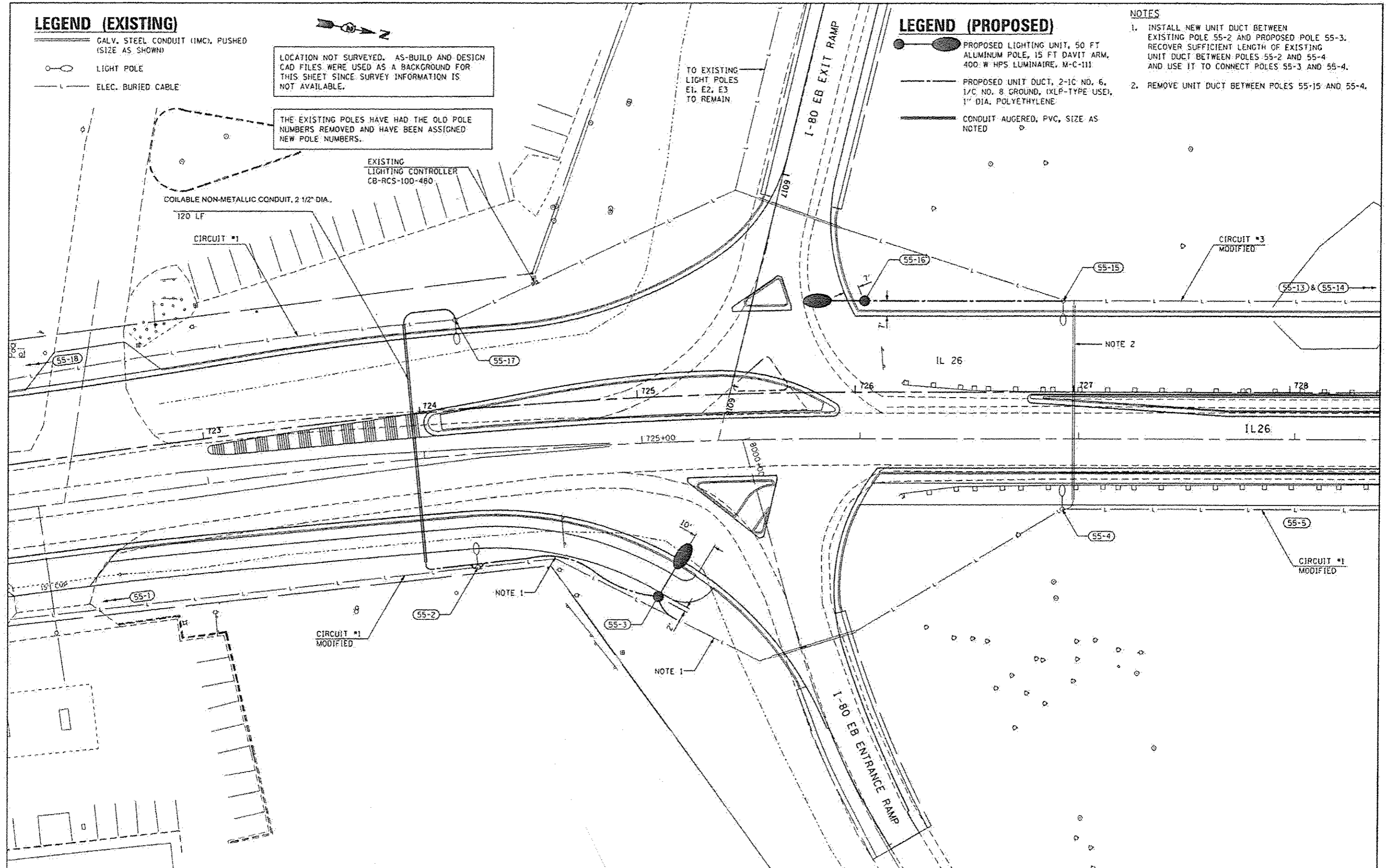
TO EXISTING LIGHT POLES E1, E2, E3 TO REMAIN

**LEGEND (PROPOSED)**

- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, 15 FT DAVIT ARM, 400 W HPS LUMINAIRE, M-C-111
- PROPOSED UNIT DUCT, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
- CONDUIT AUGERED, PVC, SIZE AS NOTED

**NOTES**

1. INSTALL NEW UNIT DUCT BETWEEN EXISTING POLE 55-2 AND PROPOSED POLE 55-3. RECOVER SUFFICIENT LENGTH OF EXISTING UNIT DUCT BETWEEN POLES 55-2 AND 55-4 AND USE IT TO CONNECT POLES 55-3 AND 55-4.
2. REMOVE UNIT DUCT BETWEEN POLES 55-15 AND 55-4.



FILE NAME: 082306-SHT-LIGHT04.DGN

USER NAME: RAMIREZ, P  
 PLOT SCALE: 20.0' = 1" IN  
 PLOT DATE: 9/13/2012

DESIGNED: JOHNSON, B  
 DRAWN: RAMIREZ, P  
 CHECKED: JOHNSON, B  
 DATE: 9/13/2012

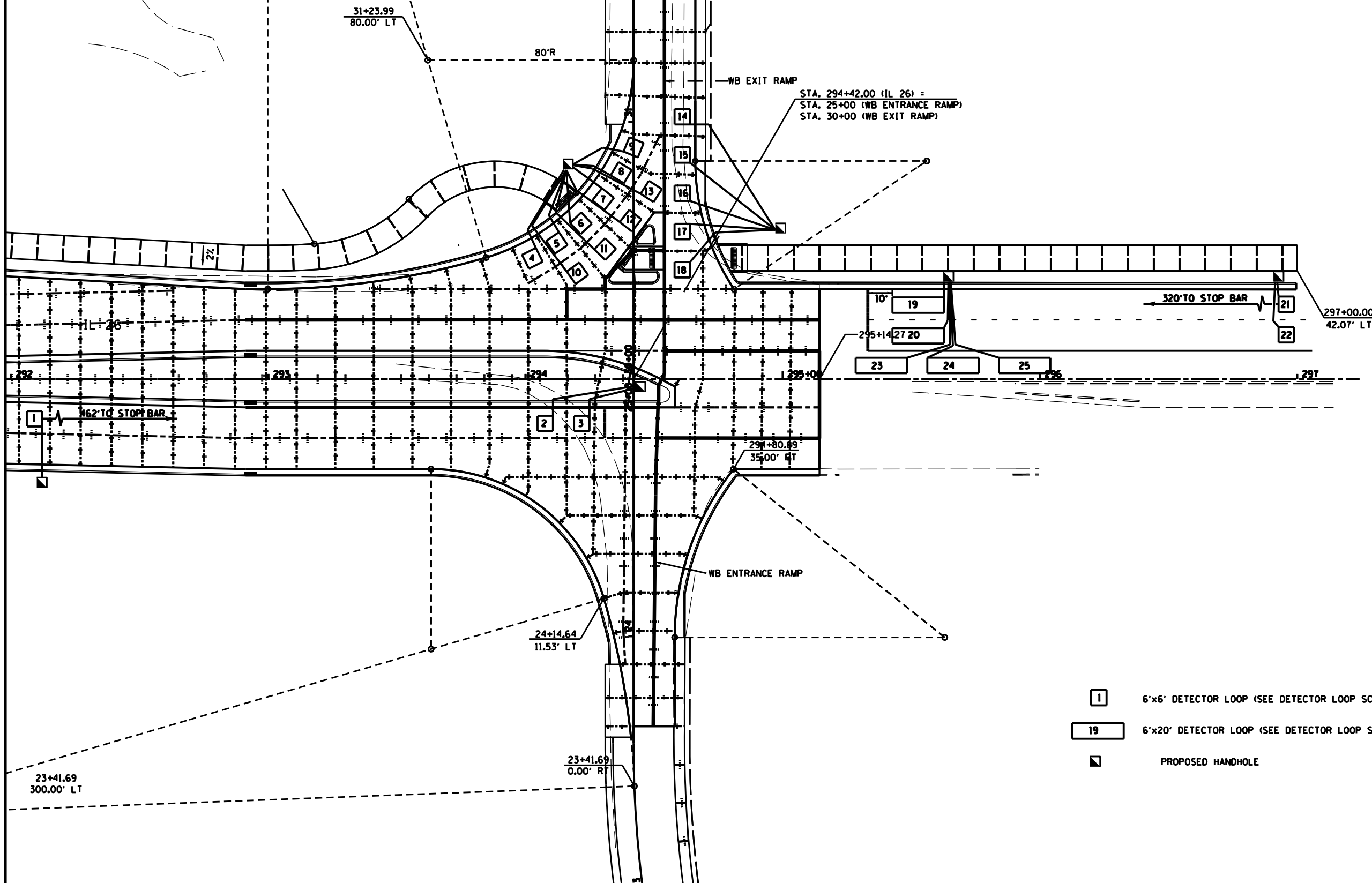
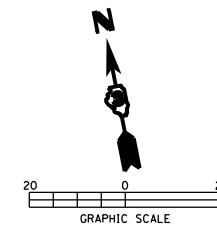
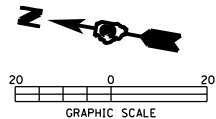
REVISED: -  
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 REVISED: -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY LIGHTING SHEETS  
 EXISTING LIGHTING MODIFICATION PLAN  
 (IL 26 AT EASTBOUND RAMPS)**

SCALE: SHEET NO. 2 OF 8 SHEETS STA. 1625+49.62 TO STA. 295+14.27

F.A.P. RTE. 316	SECTION 1161 R/T	COUNTY	TOTAL SHEET NO. 221	SHEET NO. 117
BUREAU			CONTRACT NO. 66901	
ILLINOIS FED. AID PROJECT				



- 1 6'x6' DETECTOR LOOP (SEE DETECTOR LOOP SCHEDULE FOR TYPE OF DETECTOR LOOP)
- 19 6'x20' DETECTOR LOOP (SEE DETECTOR LOOP SCHEDULE FOR TYPE OF DETECTOR LOOP)
- PROPOSED HANDHOLE

FILE NAME = D03306-SHT-ELEV.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>DETECTOR LOOP DETAILS</b>			F.A.P. RTE. 316	SECTION (116) R,T	COUNTY BUREAU	TOTAL SHEETS 221	SHEET NO. 118
	PLOT SCALE = 20.0' / IN.	CHECKED - JOHNSON, B	REVISED -		SCALE:	SHEET NO. 4 OF 4 SHEETS	STA. 1625+49.62 TO STA. 295+14.27	CONTRACT NO. 66901				
	PLOT DATE = \$DATE*	DATE - \$DATE*	REVISED -		ILLINOIS FED. AID PROJECT							

DETECTOR LOOP NOTE: J PIN OFF ON LOOPS 2 WITH 3 AND 19 WITH 20

### DETECTOR LOOP SCHEDULE

APPROACH	DETECTOR ID NUMBER	TURNS	PAY ITEM NAME	LOOP DIMENSIONS	LOOP TO EOP	LEAD-IN WIRE EOP TO HANDHOLE	SLACK	PERFORMED DETECTOR LOOP FOOT	DETECTOR LOOP, TYPE 1 FOOT
SOUTHBOUND THROUGH	1	5	PREFORMED DETECTOR LOOP	6'x6'	18'	6'	6.5'	42	
	2	5	PREFORMED DETECTOR LOOP	6'x6'	6'	45'	6.5'	30	
	3	5	PREFORMED DETECTOR LOOP	6'x6'	6'	32'	6.5'	30	
WESTBOUND RIGHT	4	5	PREFORMED DETECTOR LOOP	6'x6'	8'	28'	6.5'	32	
	5	5	PREFORMED DETECTOR LOOP	6'x6'	8'	25'	6.5'	32	
	6	5	PREFORMED DETECTOR LOOP	6'x6'	8'	20'	6.5'	32	
	7	5	PREFORMED DETECTOR LOOP	6'x6'	8'	20'	6.5'	32	
	8	5	PREFORMED DETECTOR LOOP	6'x6'	8'	17'	6.5'	32	
	9	5	PREFORMED DETECTOR LOOP	6'x6'	8'	21'	6.5'	32	
	10	5	PREFORMED DETECTOR LOOP	6'x6'	22'	15'	6.5'	46	
	11	5	PREFORMED DETECTOR LOOP	6'x6'	22'	20'	6.5'	46	
	12	5	PREFORMED DETECTOR LOOP	6'x6'	22'	20'	6.5'	46	
	13	5	PREFORMED DETECTOR LOOP	6'x6'	22'	17'	6.5'	46	
WESTBOUND LEFT	14	5	PREFORMED DETECTOR LOOP	6'x6'	7'	52'	6.5'	31	
	15	5	PREFORMED DETECTOR LOOP	6'x6'	7'	43'	6.5'	31	
	16	5	PREFORMED DETECTOR LOOP	6'x6'	8'	30'	6.5'	32	
	17	5	PREFORMED DETECTOR LOOP	6'x6'	9'	28'	6.5'	33	
	18	5	PREFORMED DETECTOR LOOP	6'x6'	14'	26'	6.5'	38	
NORTHBOUND STOP BAR	19	4	DETECTOR LOOP, TYPE 1	6'x20'	5'		6.5'		57
	20	4	DETECTOR LOOP, TYPE 1	6'x20'	18'		6.5'		70
NORTHBOUND ADVANCE	21	6	DETECTOR LOOP, TYPE 1	6'x6'	5'		6.5'		29
	22	6	DETECTOR LOOP, TYPE 1	6'x6'	18'		6.5'		42
NORTHBOUND LEFT	23	4	DETECTOR LOOP, TYPE 1	6'x20'	40'		6.5'		92
	24	4	DETECTOR LOOP, TYPE 1	6'x20'	40'		6.5'		92
	25	4	DETECTOR LOOP, TYPE 1	6'x20'	40'		6.5'		92
<b>GRAND TOTAL</b>								<b>643</b>	<b>474</b>



# SOIL BORING LOG

Date 7/21/10

ROUTE IL 26 (FAP 316) DESCRIPTION Traffic Signal Foundations at I-80 & IL 26 Interchange in Princeton LOGGED BY Larry Myers

SECTION (116) R,T LOCATION SW 1/4 of NW 1/4, SEC. 4, TWP. 16N, RNG. 9E

COUNTY Bureau DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. Station	D E P T H	B L O W S	U C S Qu	M O S T	Surface Water Elev. _____ ft Stream Bed Elev. _____ ft
Augered Shoulder Stone, Brown Silty Clay Loam Fill					
	677.83				
Stiff Brown Silty Clay Loam Fill		2			
		2	1.5	15.0	
		5	P		
	675.83				
Stiff Gray & Black Silty Loam/Silty Clay Loam Fill		-5			
		3			
		3	1.5	19.1	
		4	P		
	673.33				
Hard Brown, Gray, Black Silty Clay Fill		5			
		7	4.2	18.8	
		9	S		
	-10				
		3			
		5	4.0	20.8	
		7	S		
		4			
		5	4.2	21.6	
		7	S		
	-15				
		3			
		5	4.0	21.3	
		7	S		
	663.83				
End of Boring					
	-20				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)



# SOIL BORING LOG

Date 7/21/10

ROUTE IL 26 (FAP 316) DESCRIPTION Traffic Signal Foundations at I-80 & IL 26 Interchange in Princeton LOGGED BY Larry Myers

SECTION (116) R,T LOCATION SW 1/4 of NW 1/4, SEC. 4, TWP. 16N, RNG. 9E

COUNTY Bureau DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. Station	D E P T H	B L O W S	U C S Qu	M O S T	Surface Water Elev. _____ ft Stream Bed Elev. _____ ft
Augered Brown/Black Silty Clay Loam Fill					
	679.70				
Very Stiff Black, Brown, Gray Silty Clay/Silty Clay Loam Fill with 6" Brown Sand @ 3'-3.5'		7			
		5	3.5	12.6	
		5	P		
	-5				
		5			
		4	3.1	20.1	
		5	B		
		4			
		5	3.4	23.0	
		6	B		
	672.70				
Hard Brown, Gray, Black Silty Clay Fill		-10			
		5			
		5	4.1	19.9	
		7	S		
		5			
		4	4.0	20.5	
		7	S		
	-15				
		5			
		7	4.4	17.9	
		9	S		
	665.70				
End of Boring					
	-20				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, from 137 (Rev. 8-99)

FILE NAME =  
003306-sh1-Signal\_TemporaryPlan.dgn

USER NAME = f11n  
PLOT SCALE = 1"=20'  
PLOT DATE = 03/01/2010

DESIGNED - KC	REVISED -
DRAWN - CV	REVISED -
CHECKED - KC	REVISED -
DATE - 07/2012	REVISED -

## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

**SOIL BORING LOGS**  
IL ROUTE 26 WITH I-80 RAMPS C & D

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(116) R,T	BUREAU	221	120
CONTRACT NO. 66901				
ILLINOIS FED. AID PROJECT				

**GENERAL LIGHTING NOTES**

1. CONTRACTOR SHALL INSTALL LIGHT POLES AT THE LOCATIONS INDICATED ON THE PLANS, MAINTAINING ADEQUATE CLEARANCE FROM OVERHEAD UTILITY LINES. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY CLEARANCES PER THE NATIONAL ELECTRICAL SAFETY CODE AND/OR THE REQUIREMENTS OF THE UTILITY COMPANIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ALL CONFLICTS BETWEEN PROPOSED LIGHT POLE LOCATIONS AND UTILITY LINES. THE LOCATION OF BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE AND ARE SHOWN FOR INFORMATION ONLY. REROUTING, DISCONNECTION, RELOCATION, PROTECTION ETC., OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
2. THE CONTRACTOR IS RESPONSIBLE FOR UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THE COST OF THIS WORK IS TO BE INCLUDED WITH THE APPLICABLE UNDERGROUND CONDUIT OR UNIT DUCT PAY ITEM.
3. PROPOSED LIGHT POLES TO BE INSTALLED AT A SETBACK DISTANCES SHOWN ON THE PLANS. NO POLES TO BE INSTALLED IN THE FLOWLINE OF DITCH. POLE SETBACK TO BE ADJUSTED IF NECESSARY AS DIRECTED BY THE ENGINEER.
4. STAINLESS STEEL SCREEN INSTALLED AROUND BREAKAWAY COUPLINGS OR ANCHOR RODS AND NUTS SHALL BE ACCORDING TO ARTICLE 1070.04(a)(2)c OF THE STANDARD SPECIFICATIONS EXCEPT THE MINIMUM WIRE DIAMETER SHALL BE AWG NO. 16 (1.6 mm).
5. BREAKAWAY DEVICES SHALL NOT BE INSTALLED FOR POLES LOCATED BEHIND THE GUARDRAIL.
6. UNDERGROUND COILABLE NON-METALLIC CONDUIT SHALL BE SCHEDULE 80.
7. PROPOSED UNIT DUCT SHALL BE SCHEDULE 40.
8. THE CONTRACTOR SHALL TAKE INSULATION RESISTANCE MEASUREMENTS OF ALL EXISTING CIRCUITS BEFORE ANY MODIFICATIONS ARE MADE AND PROVIDE THE WRITTEN RESULTS TO THE ENGINEER. EXISTING CIRCUITS NOT TESTED AND PROPERLY DOCUMENTED SHALL BE SUBJECT TO THE INSULATION REQUIREMENTS OF ARTICLE 801.13 AT THE CONTRACTOR'S EXPENSE.

AFTER THE PROPOSED CIRCUIT IS FULLY INSTALLED THE CONTRACTOR SHALL TAKE INSULATION RESISTANCE MEASUREMENTS ACCORDING TO ARTICLE 801.13 AND PROVIDE THE WRITTEN RESULTS TO THE ENGINEER. IF THE TEST RESULTS DO NOT COMPLY WITH ARTICLE 801.13, THE CONTRACTOR SHALL THEN TEST ONLY THE PORTIONS OF THE CIRCUIT WHICH ARE NEW. ANY WORK NECESSARY TO BRING THE CIRCUIT INTO COMPLIANCE SHALL BE AT THE CONTRACTOR'S OWN EXPENSE AND NO ADDITIONAL PAYMENT WILL BE ALLOWED.

BILL OF MATERIALS			QUANTITY TOTALS
PAY ITEM	DESCRIPTION	UNIT	
81028760	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2 1/2" DIA.	FOOT	200
81603040	UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE	FOOT	1,608
82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	8
83004600	LIGHT POLE, ALUMINUM, 50 FT. M.H., 15 FT. DAVIT ARM	EACH	6
83600357	LIGHT POLE FOUNDATION METAL, 15" BOLT CIRCLE, 8" X 8'	EACH	6
83800650	BREAKAWAY DEVICE, COUPLING, WITH STAINLESS STEEL SCREEN	EACH	16
84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	1
84200804	REMOVAL OF POLE FOUNDATION	EACH	1

ILLINOIS DEPARTMENT OF TRANSPORTATION  
LUMINAIRE PERFORMANCE TABLE - CONVENTIONAL

GIVEN CONDITIONS

ROADWAY DATA:	Pavement Width	36	FT
	Number Of Lanes	3	
	Median Width	2	FT
	IES Surface Classification	R3	
	Q-Zero Value	.07	
LIGHT POLE DATA:	Mounting Height	50	FT
	Mast Arm Length	15	FT
	Pole Set-Back From Edge Of Pavement	7	FT
LUMINAIRE DATA:	Lamp Type	HPS	
	Lamp Lumens	50000	
	IES Vertical Distribution	M	
	IES Control Of Distribution	FC	
	IES Lateral Distribution	3	
	Total Light Loss Factor	0.684	
LAYOUT DATA:	Spacing	270	FT
	Configuration	Opposite	
	Luminaire Overhang Over Edge Of Pavement Lane	8	FT

NOTE: Variations from the above specified IES distribution pattern may be requested and acceptance of variations will be subject to review by the Engineer based on how well the performance requirements are met.

PERFORMANCE REQUIREMENTS

NOTE: These performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

ILLUMINATION:	Average Horizontal Illumination, (E <sub>av</sub> )	1.30	fc
	Uniformity Ratio, (E <sub>av</sub> /E <sub>min</sub> )	3.0	
LUMINANCE:	Average Luminance: (L <sub>av</sub> )	0.90	Cd/m <sup>2</sup>
	Uniformity Ratios: (L <sub>av</sub> /L <sub>min</sub> )	3.0	
	(L <sub>max</sub> /L <sub>min</sub> )	5.0	
	Maximum Veiling Luminance Ratio: (L <sub>v</sub> /L <sub>av</sub> )	0.3	

FILE NAME =  
D03306-SHT-LIGHTING.DGN

USER NAME = RAMIREZ, P

DESIGNED - JOHNSON, B

REVISED -

DRAWN - RAMIREZ, P

REVISED -

PLOT SCALE = 20.0' / IN.

CHECKED - JOHNSON, B

REVISED -

PLOT DATE = \$DATE\$

DATE - \$DATE\$

REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROADWAY LIGHTING SHEETS-GENERAL NOTES, LUMINAIRE  
PERFORMANCE TABLE & QUANTITIES

SCALE:

SHEET NO. 1 OF 5 SHEETS

STA. 1625+49.62 TO STA. 295+14.27

F.A.P.  
RTE.

SECTION

COUNTY

TOTAL SHEETS

SHEET NO.

316

(116) R,T

BUREAU

221

121

CONTRACT NO. 66901

ILLINOIS FED. AID PROJECT

**LEGEND (EXISTING)**

- GALV. STEEL CONDUIT (11M), PUSHED (SIZE AS SHOWN)
- LIGHT POLE
- ELEC. BURIED CABLE

LOCATION NOT SURVEYED. AS-BUILD AND DESIGN CAD FILES WERE USED AS A BACKGROUND FOR THIS SHEET SINCE SURVEY INFORMATION IS NOT AVAILABLE.

THE EXISTING POLES HAVE HAD THE OLD POLE NUMBERS REMOVED AND HAVE BEEN ASSIGNED NEW POLE NUMBERS.

EXISTING LIGHTING CONTROLLER  
CB-RCS-100-460

COILABLE NON-METALLIC CONDUIT, 2 1/2" DIA.

120 LF

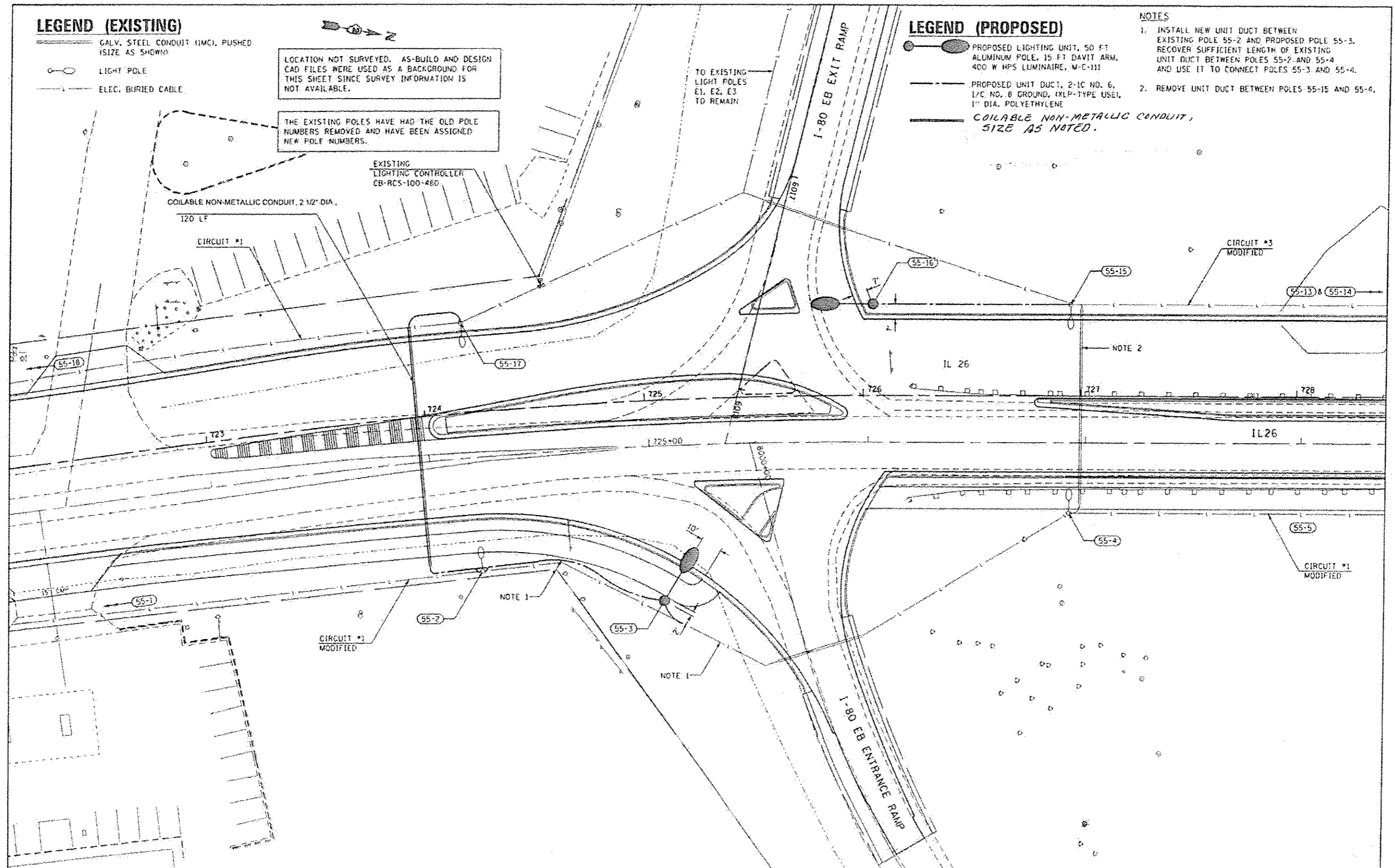
CIRCUIT #1

**LEGEND (PROPOSED)**

- PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, 15 FT DAVIT ARM, 400 W HPS LUMINAIRE, M-C-111
- PROPOSED UNIT DUCT, 2-1C NO. 6, 1/2" NO. 8 GROUND, MLP-TYPE USE1, 1" DIA. POLYETHYLENE
- COILABLE NON-METALLIC CONDUIT, SIZE AS NOTED.

**NOTES**

1. INSTALL NEW UNIT DUCT BETWEEN EXISTING POLE 55-2 AND PROPOSED POLE 55-3. RECOVER SUFFICIENT LENGTH OF EXISTING UNIT DUCT BETWEEN POLES 55-2 AND 55-4 AND USE IT TO CONNECT POLES 55-3 AND 55-4.
2. REMOVE UNIT DUCT BETWEEN POLES 55-15 AND 55-4.



FILE NAME: 60330-ENT-LIGHTING.PLN	USER NAME: RAMIREZ, P	DESIGNED: JOHNSON, B	REVISED:	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ROADWAY LIGHTING SHEETS EXISTING LIGHTING MODIFICATION PLAN (IL 26 AT EASTBOUND RAMP)</b>	F.A.P.:	SECTION:	COUNTY:	TOTAL SHEET
PLOT SCALE: 2000:1 PL	CHECKED: JOHNSON, B	REVISED:	DATE:			9/13/2012	NO.	227	122
PLOT DATE: 9/13/2012	DATE:	9/13/2012	REVISED:			CONTRACT NO. 66901	SCALE:	SHEET NO. 2 OF 5 SHEETS	STA. 1626+53.62 TO STA. 295+14.27

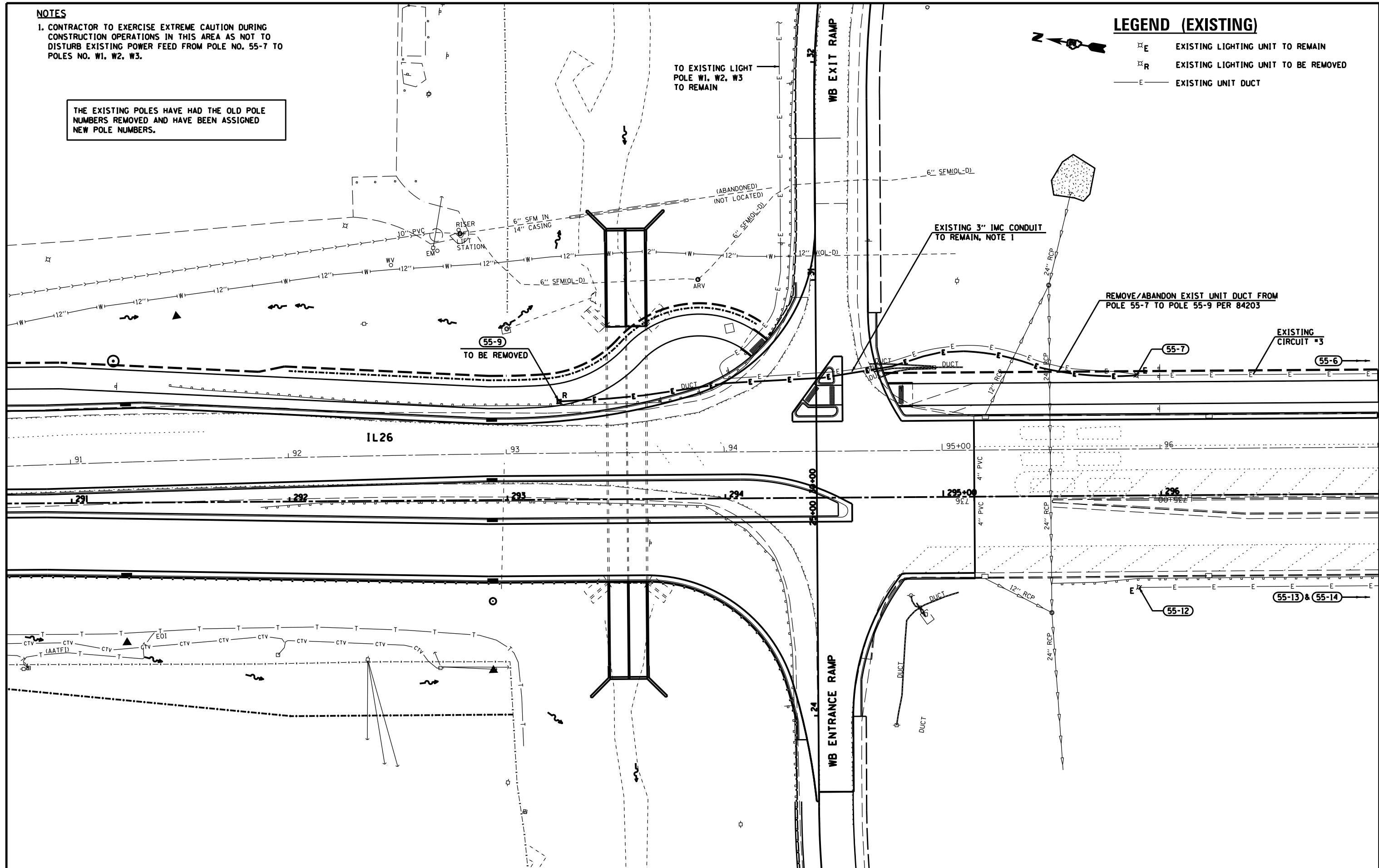
**NOTES**

1. CONTRACTOR TO EXERCISE EXTREME CAUTION DURING CONSTRUCTION OPERATIONS IN THIS AREA AS NOT TO DISTURB EXISTING POWER FEED FROM POLE NO. 55-7 TO POLES NO. W1, W2, W3.

THE EXISTING POLES HAVE HAD THE OLD POLE NUMBERS REMOVED AND HAVE BEEN ASSIGNED NEW POLE NUMBERS.

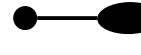
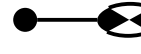
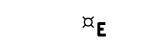
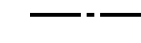

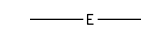
**LEGEND (EXISTING)**

- ⊠ E EXISTING LIGHTING UNIT TO REMAIN
- ⊠ R EXISTING LIGHTING UNIT TO BE REMOVED
- E — EXISTING UNIT DUCT

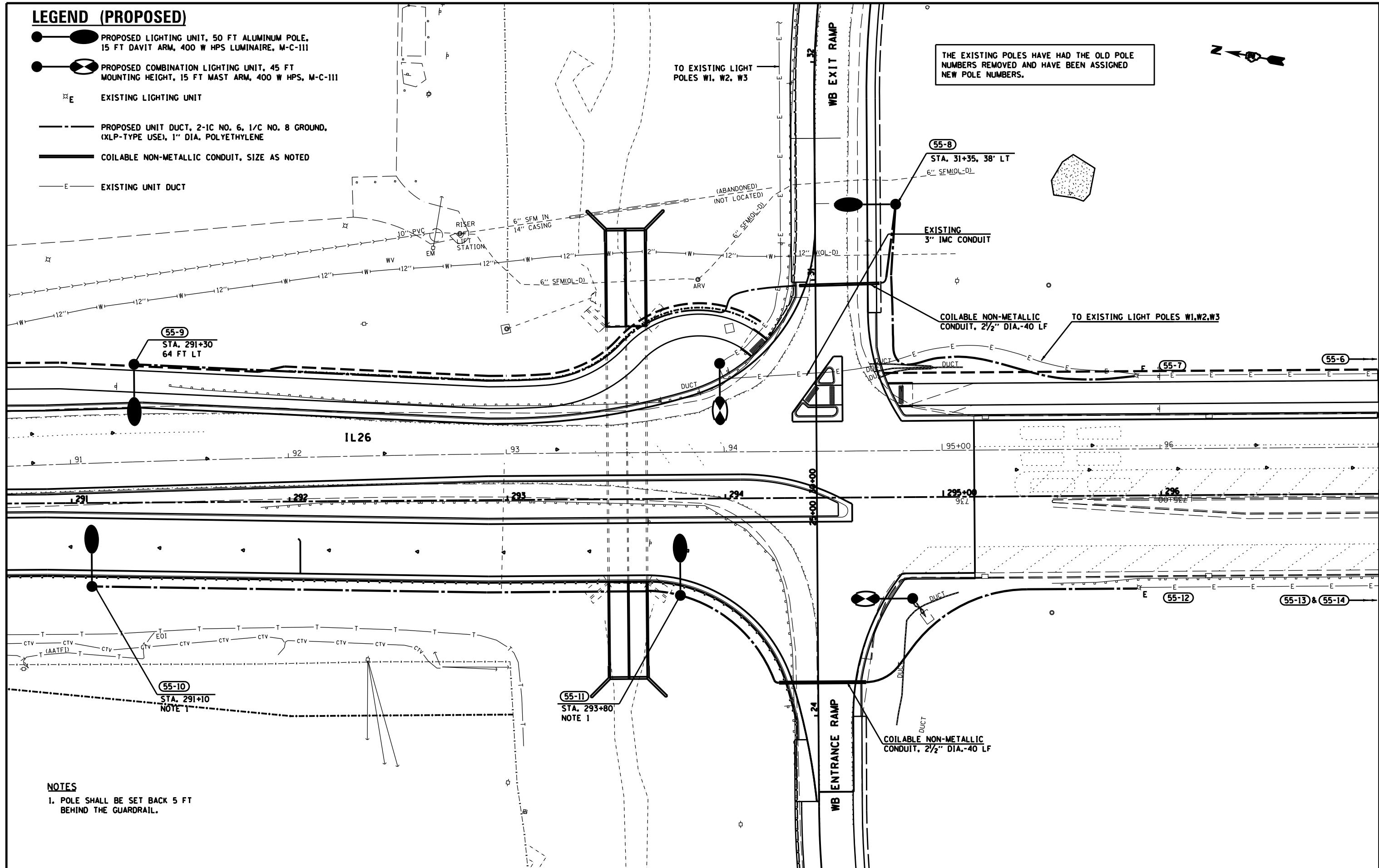


FILE NAME = D03306-SHT-LIGHTING.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ROADWAY LIGHTING SHEETS EXISTING LIGHTING AND REMOVAL PLAN (IL 26 AT WESTBOUND RAMPS)</b>		F.A.P. RTE. 316	SECTION (116) R,T	COUNTY BUREAU	TOTAL SHEETS 221	SHEET NO. 123
	PLOT SCALE = 20.0' / IN.	CHECKED - JOHNSON, B	REVISED -		SCALE: 1" = 40'	SHEET NO. 3 OF 5 SHEETS	STA. 1625+49.62 TO STA. 295+14.27	CONTRACT NO. 66901		ILLINOIS FED. AID PROJECT	
PLOT DATE = \$DATE\$	DATE - \$DATE\$	DATE - \$DATE\$	REVISED -								

**LEGEND (PROPOSED)**

-  PROPOSED LIGHTING UNIT, 50 FT ALUMINUM POLE, 15 FT DAVIT ARM, 400 W HPS LUMINAIRE, M-C-111
-  PROPOSED COMBINATION LIGHTING UNIT, 45 FT MOUNTING HEIGHT, 15 FT MAST ARM, 400 W HPS, M-C-111
-  EXISTING LIGHTING UNIT
-  PROPOSED UNIT DUCT, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
-  COILABLE NON-METALLIC CONDUIT, SIZE AS NOTED
-  EXISTING UNIT DUCT

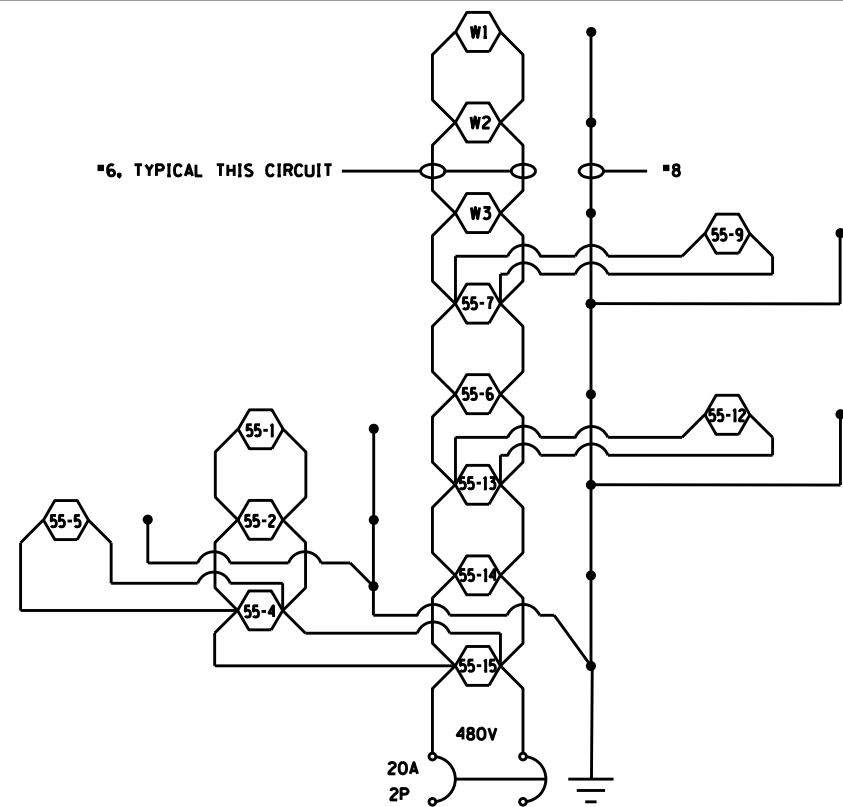
THE EXISTING POLES HAVE HAD THE OLD POLE NUMBERS REMOVED AND HAVE BEEN ASSIGNED NEW POLE NUMBERS.



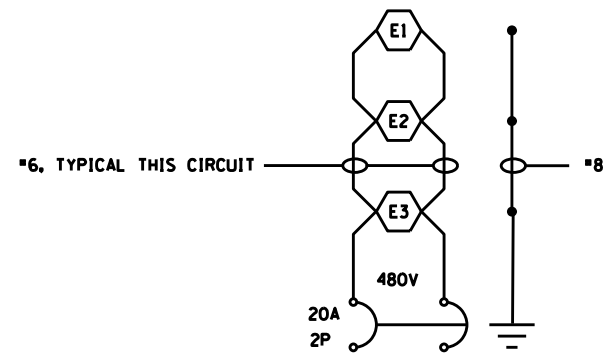
**NOTES**  
 1. POLE SHALL BE SET BACK 5 FT BEHIND THE GUARDRAIL.

FILE NAME = D03306-SHT-LIGHTING.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ROADWAY LIGHTING SHEETS PROPOSED LIGHTING PLAN (IL 26 AT WESTBOUND RAMPS)</b>		F.A.P. RTE. 316	SECTION (116) R,T	COUNTY BUREAU	TOTAL SHEETS 221	SHEET NO. 124	
PLOT SCALE = 20.0' / IN.		DRAWN - RAMIREZ, P	REVISED -		SCALE:	SHEET NO. 4 OF 5 SHEETS	STA. 1625+49.62 TO STA. 295+14.27	CONTRACT NO. 66901				
PLOT DATE = \$DATE\$		CHECKED - JOHNSON, B	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE - \$DATE\$	REVISED -									

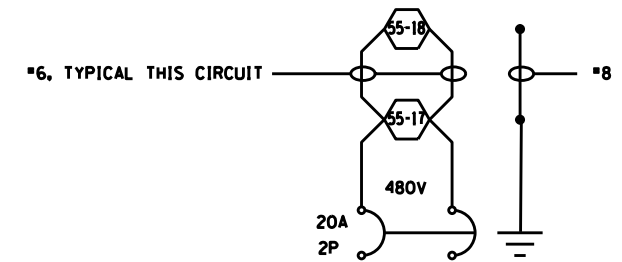




LIGHTING CKT 3  
EXISTING LIGHTING CONTROLLER



LIGHTING CKT 2  
EXISTING LIGHTING CONTROLLER

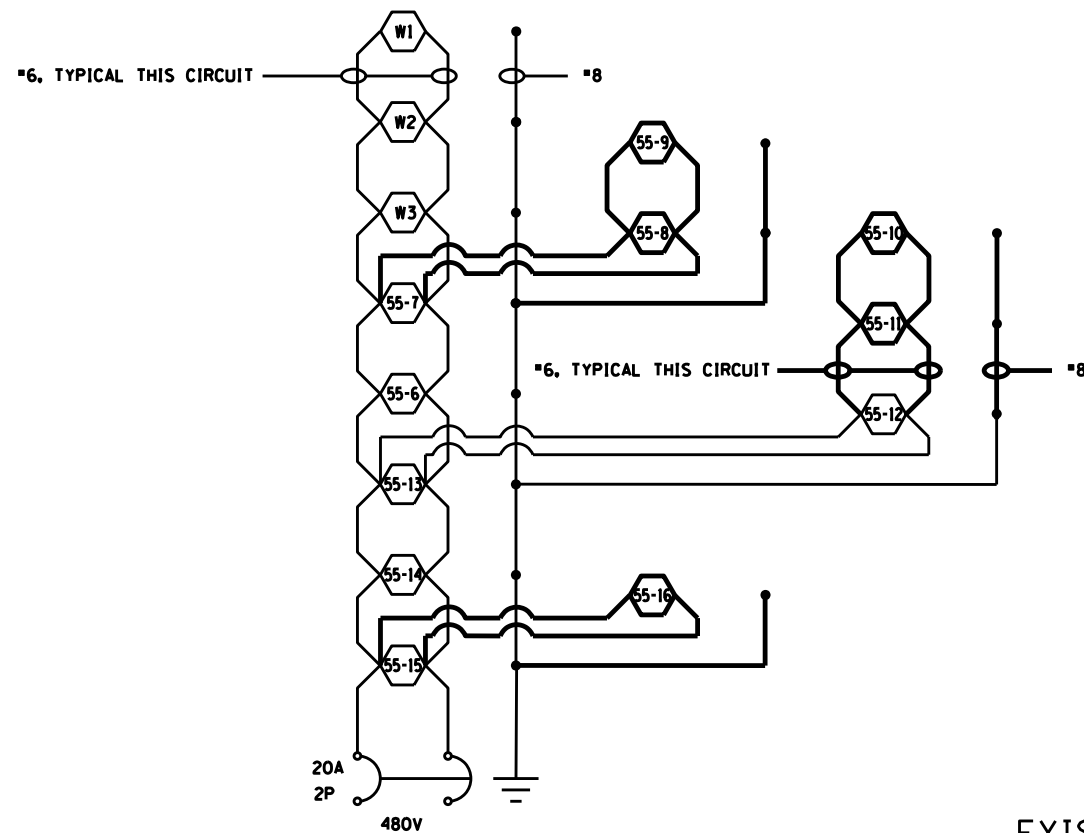


LIGHTING CKT 1  
EXISTING LIGHTING CONTROLLER

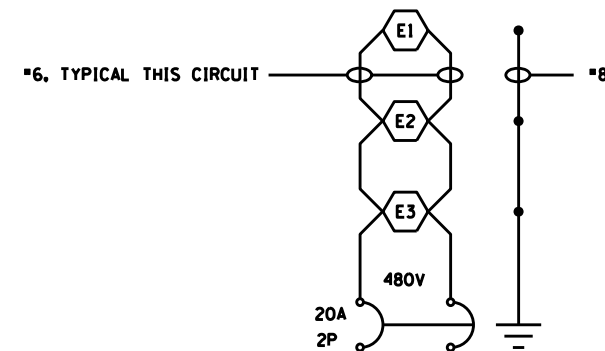
EXISTING CIRCUIT DIAGRAMS

- NOTES:
- ALL NECESSARY REVISIONS TO THE WIRING SHOWN ON THIS SHEET SHALL BE MADE AT NO ADDITIONAL COST TO THE DEPARTMENT AND TO THE SATISFACTION OF THE ENGINEER.

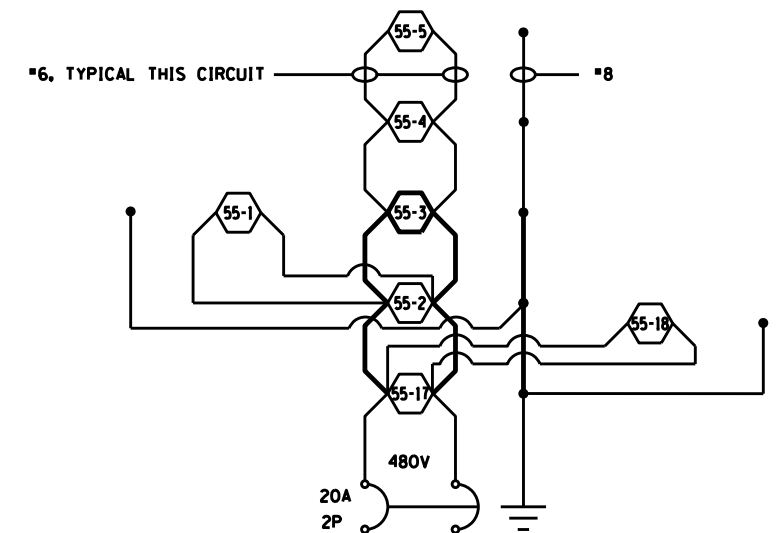
⬡ 400W ROADWAY LUMINAIRE



LIGHTING CKT 3  
EXISTING LIGHTING CONTROLLER



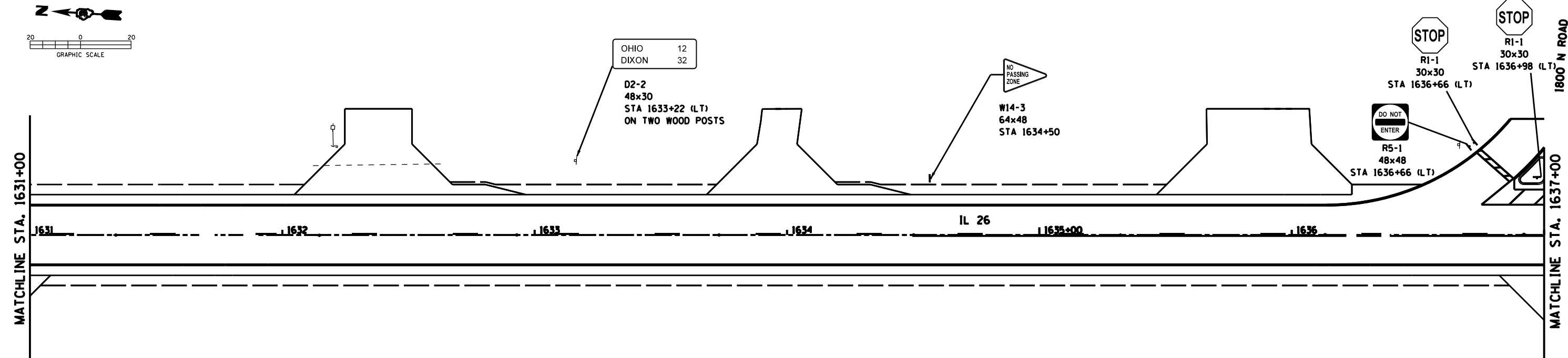
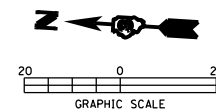
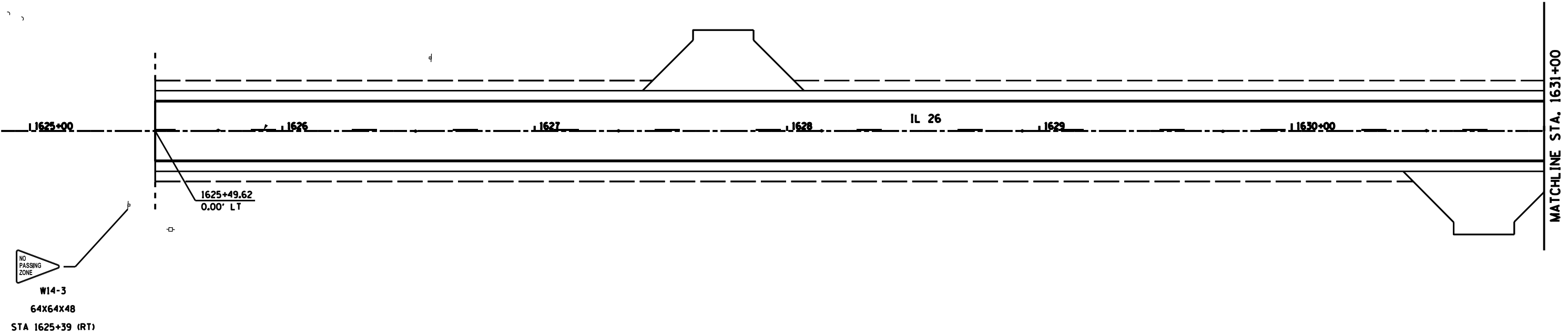
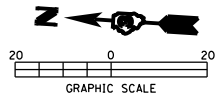
LIGHTING CKT 2  
EXISTING LIGHTING CONTROLLER



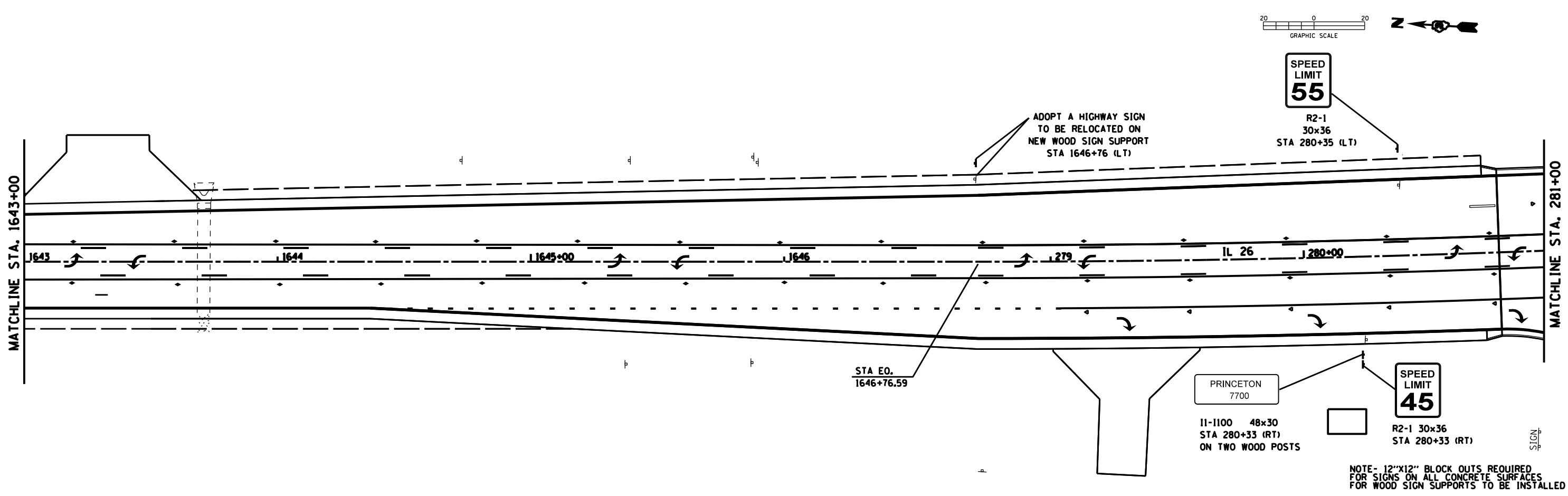
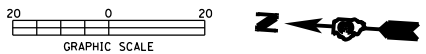
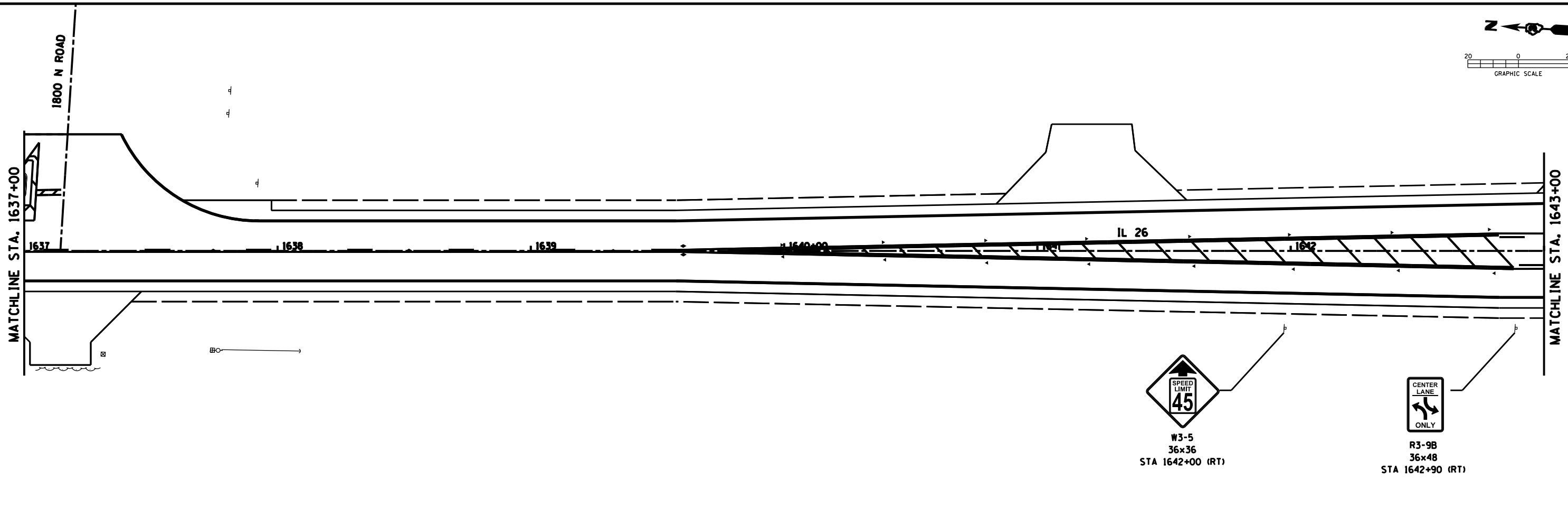
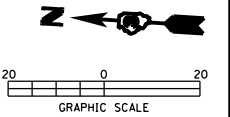
LIGHTING CKT 1  
EXISTING LIGHTING CONTROLLER

EXISTING CIRCUIT DIAGRAMS - MODIFIED

FILE NAME = D03306-SHT-LIGHTING.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY LIGHTING SHEETS EXISTING LIGHTING CONTROLLER CIRCUIT DIAGRAMS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 20.0' / IN.	DRAWN - RAMIREZ, P	REVISED -		SCALE:	SHEET NO. 5 OF 5 SHEETS	STA. 1625+49.62 TO STA. 295+14.27	316	(116) R,T	BUREAU	221
PLOT DATE = \$DATE*	CHECKED - JOHNSON, B	DATE - \$DATE*	REVISED -				CONTRACT NO. 66901				
							ILLINOIS FED. AID PROJECT				



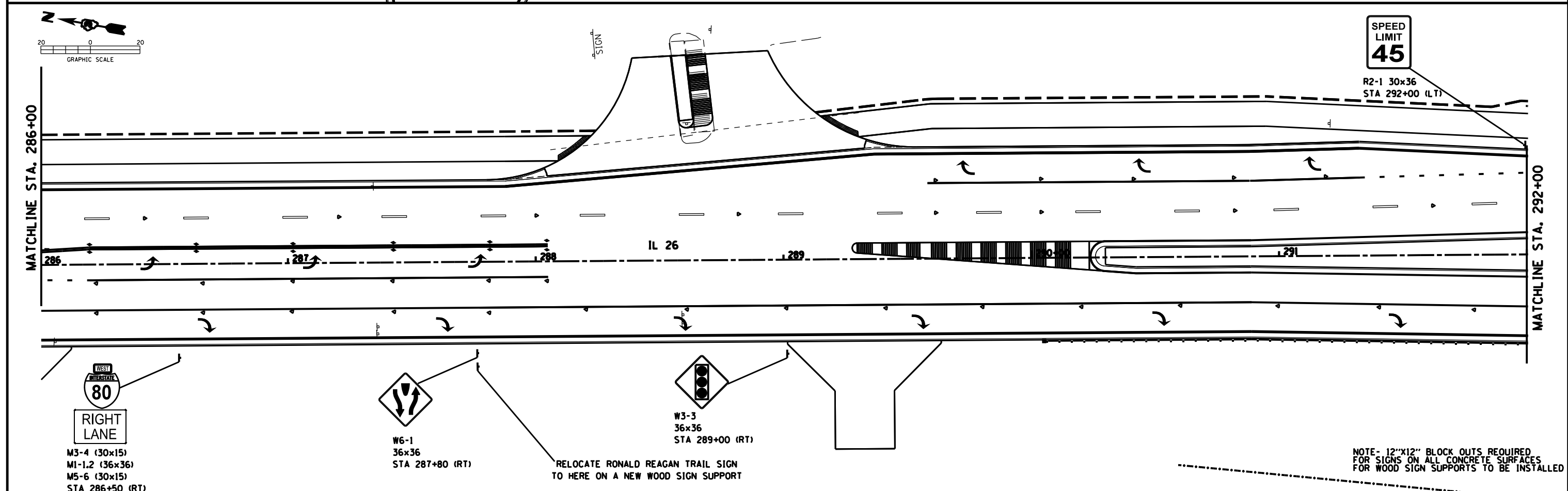
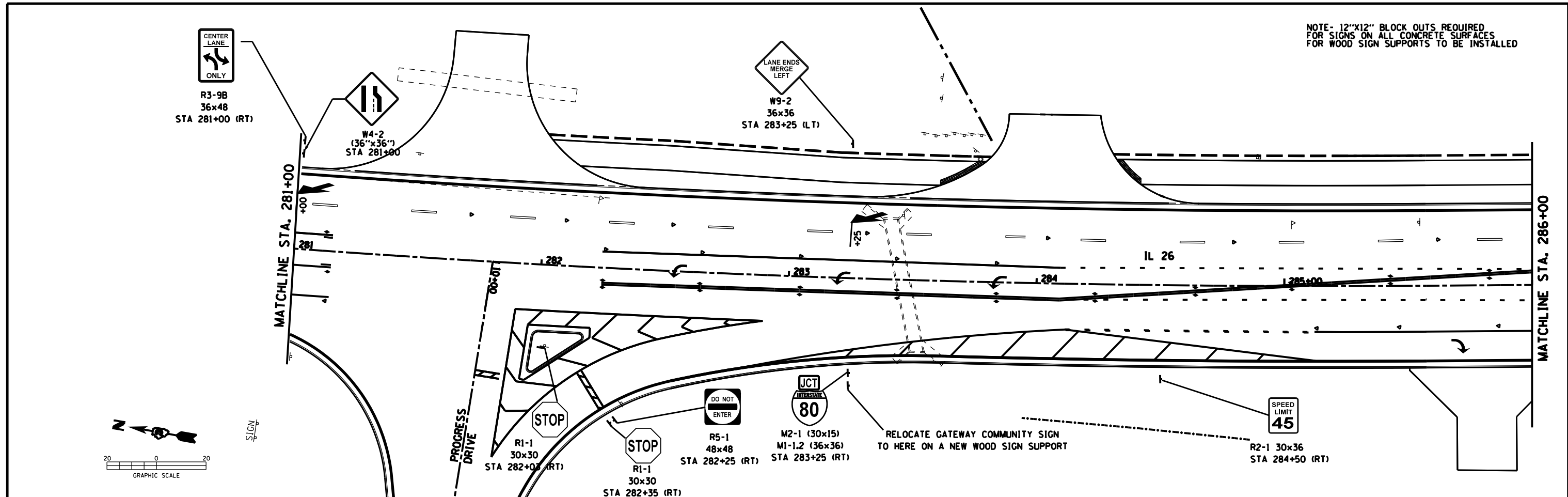
FILE NAME = D03306-SHT-REM.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGNING PLAN SHEETS		F.A.P. RTE. 316	SECTION (116) R,T	COUNTY BUREAU	TOTAL SHEETS 221	SHEET NO. 126
	PLOT SCALE = 20.0' / IN.	CHECKED - JOHNSON, B	REVISED -		SCALE:	SHEET NO. 1 OF 5 SHEETS	STA. 1625+49.62 TO STA. 1637+00	CONTRACT NO. 66901 ILLINOIS FED. AID PROJECT			
PLOT DATE = \$DATE\$	DATE - \$DATE\$	DATE - \$DATE\$	REVISED -								



NOTE - 12"x12" BLOCK OUTS REQUIRED FOR SIGNS ON ALL CONCRETE SURFACES FOR WOOD SIGN SUPPORTS TO BE INSTALLED

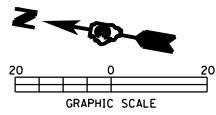
FILE NAME = D03306-SHT-PMKLDGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGNING PLAN SHEETS			F.A.P. RTE. 316	SECTION (116) R,T	COUNTY BUREAU	TOTAL SHEETS 221	SHEET NO. 127
	PLOT SCALE = 20.0' / IN.	CHECKED - JOHNSON, B	REVISED -		SCALE: 1" = 40'	SHEET NO. 2 OF 5 SHEETS	STA. 1637+00 TO STA. 280+00	CONTRACT NO. 66901				
PLOT DATE = #DATE#	DATE - #DATE#	DATE - #DATE#	REVISED -				ILLINOIS FED. AID PROJECT					

NOTE- 12"x12" BLOCK OUTS REQUIRED FOR SIGNS ON ALL CONCRETE SURFACES FOR WOOD SIGN SUPPORTS TO BE INSTALLED



NOTE- 12"x12" BLOCK OUTS REQUIRED FOR SIGNS ON ALL CONCRETE SURFACES FOR WOOD SIGN SUPPORTS TO BE INSTALLED

FILE NAME = D03306-SHT-PMK.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGNING PLAN SHEETS			F.A.P. RTE. 316	SECTION (116) R,T	COUNTY BUREAU	TOTAL SHEETS 221	SHEET NO. 128
	PLOT SCALE = 20.0' / IN.	DRAWN - RAMIREZ, P	REVISED -		SCALE:	SHEET NO. 3 OF 5 SHEETS	STA. 280+00 TO STA. 292+00	CONTRACT NO. 66901				
	PLOT DATE = \$DATE*	CHECKED - JOHNSON, B	REVISED -									
		DATE - \$DATE*	REVISED -		ILLINOIS FED. AID PROJECT							



M3-1 (21x15)  
M1-I100.2 (24x24)  
STA 293+10 (LT)



R6-1L/R  
54x18  
STA 294+42 (LT)

R1-1  
18x18  
STA 294+06 (LT)



WRONG WAY  
R5-1  
42x30  
STA 32+16 (RT&LT)

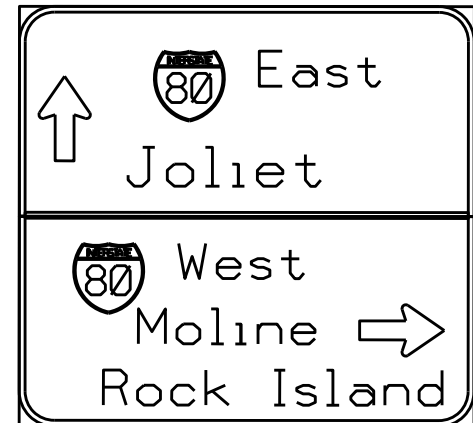
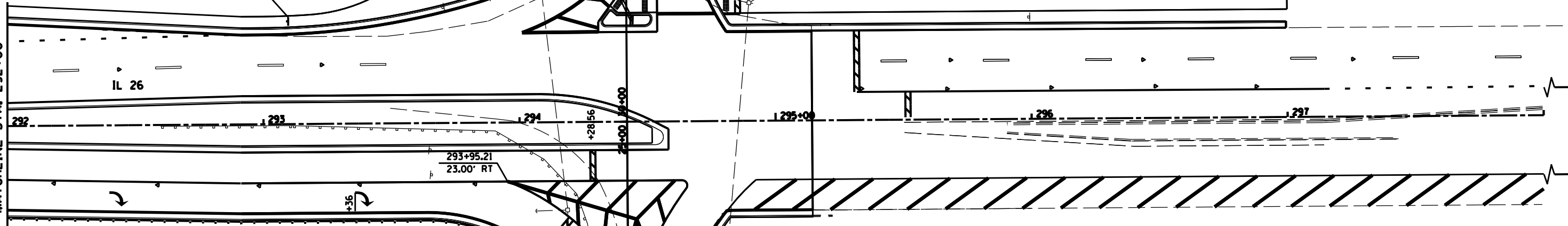


DO NOT ENTER  
R5-1  
48x48  
STA 31+16 (RT&LT)



STOP  
R1-1  
18x18  
STA 294+85 (LT)  
(SEE NOTE 1)

MATCHLINE STA. 292+00



GUIDE 156144-STA 293+75 (RT)  
(SEE SIGN DETAIL)



R5-I100  
48x60  
STA 24+03(LT)  
(SEE SIGN DETAIL)  
AND R8-3a  
BELOW ON SAME  
POST

NOTE 1- PLACE 2-18x18 STOP SIGNS SIMILARLY AT THE MULTIUSE PATH AT THE I-80 EXIT EAST EXIT RAMP

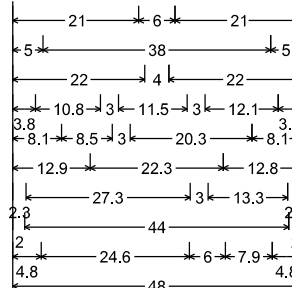
NOTE 2- 12"x12" BLOCK OUTS REQUIRED FOR SIGNS ON ALL CONCRETE SURFACES FOR WOOD SIGN SUPPORTS TO BE INSTALLED

FILE NAME = D03306-SHT-PMKLDGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIGNING PLAN SHEETS		F.A.P. RTE. 316	SECTION (116) R,T	COUNTY BUREAU	TOTAL SHEETS 221	SHEET NO. 129
	PLOT SCALE = 20.0' / IN.	CHECKED - JOHNSON, B	REVISED -		SCALE:	SHEET NO. 4 OF 5 SHEETS	STA. 292+00 TO STA. 295+14.27	CONTRACT NO. 66901		ILLINOIS FED. AID PROJECT	
PLOT DATE = \$DATE\$	DATE - \$DATE\$	REVISED -	REVISED -								

USE  
**PROHIBITED**  
 BY  
 MOTOR DRIVEN CYCLES  
 FARM IMPLEMENTS  
 PEDESTRIANS  
 NON-MOTORIZED TRAFFIC

---

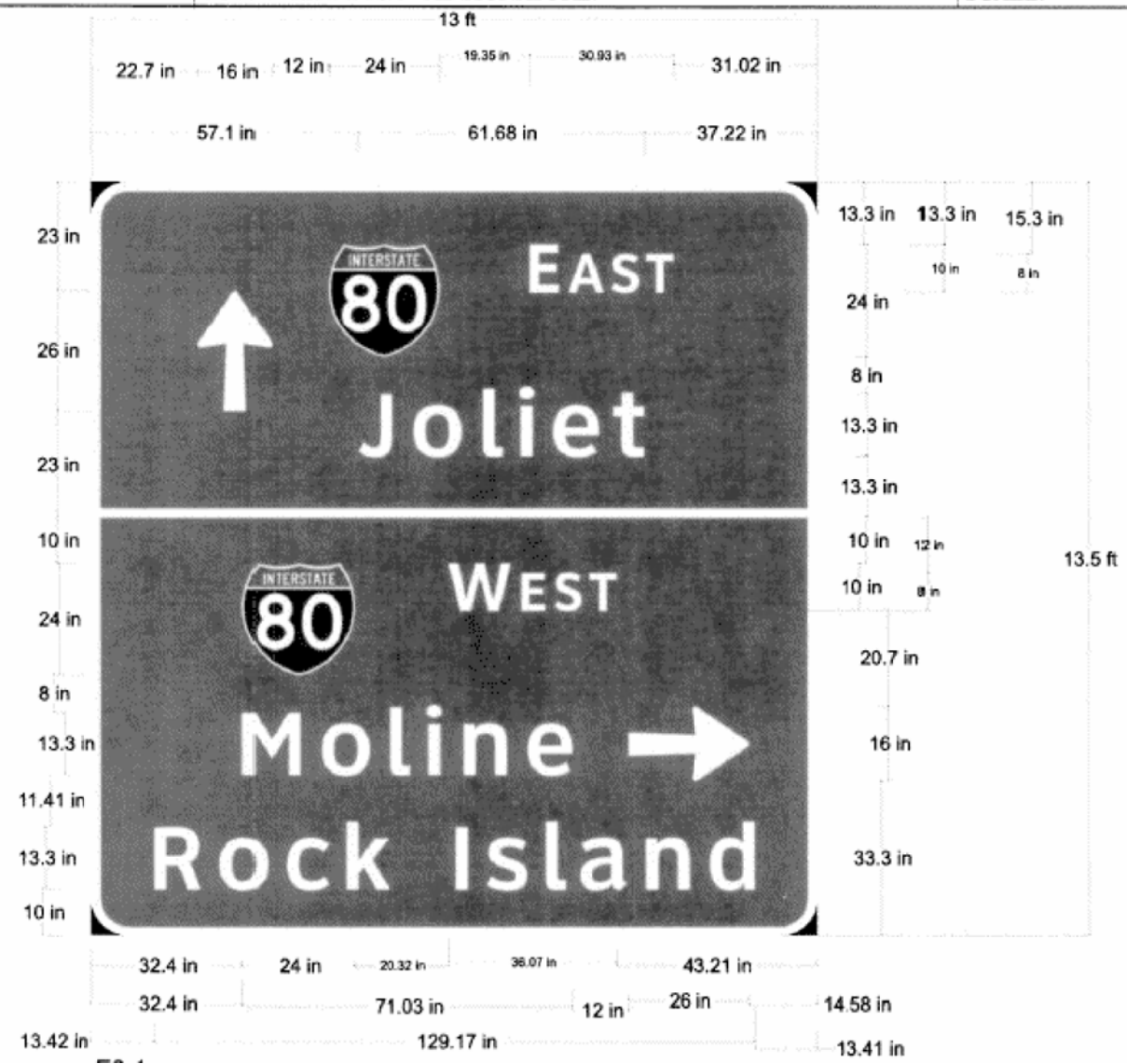
**BUCKLE UP**



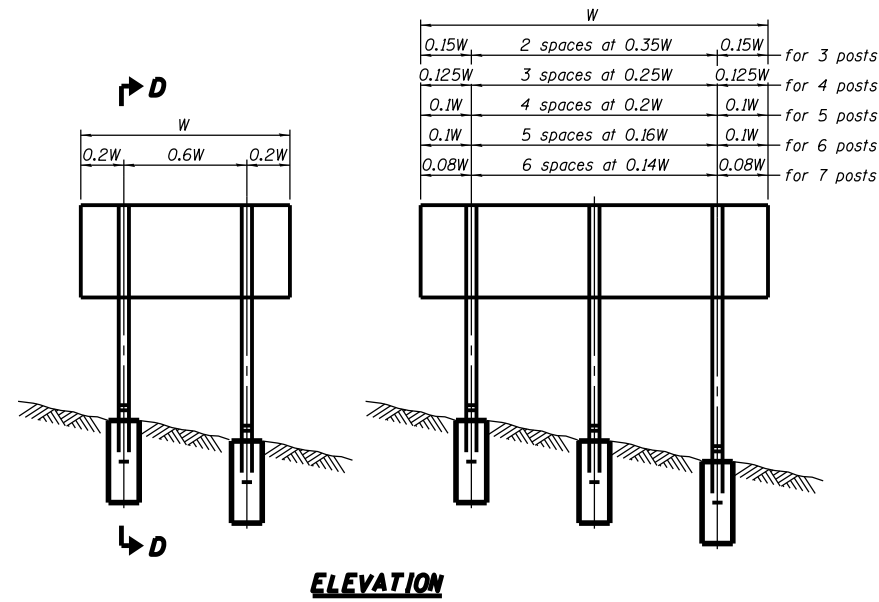
R5-1100 W/ BUCKLE UP;  
 3.0" Radius, 1.3" Border, 0.8" Indent, Black on White;  
 [USE] C; [PROHIBITED] C;  
 [BY] C;  
 [MOTOR DRIVEN CYCLES] C;  
 [FARM IMPLEMENTS] C;  
 [PEDESTRIANS] C;  
 [NON-MOTORIZED TRAFFIC] C;  
 Horizontal Line White;  
 [BUCKLE UP] C;  
 Table of widths and spaces.

21.0	U	1.6	0.6	S	1.8	0.5	E	1.5	21.0																													
5.0	P	3.4	1.1	R	3.4	1.0	O	3.5	1.3	3.1	1.4	0.8	1.3	B	3.3	1.3	0.8	1.0	T	3.0	1.0	E	3.0	1.0	D	3.3	5.0											
22.0	B	1.6	0.5	Y	1.9	22.0																																
3.8	M	1.9	0.6	O	1.8	0.5	T	1.5	0.5	O	1.8	0.6	R	1.6																								
	D	1.6	0.6	R	1.8	0.5	I	0.5	0.5	V	1.8	0.5	E	1.5	0.5	N	1.6																					
	C	1.8	0.3	Y	1.9	0.4	C	1.6	0.6	L	1.5	0.5	E	1.5	0.5	S	1.6	3.8																				
8.1	F	1.5	0.4	A	1.9	0.5	R	1.6	0.6	M	2.0																											
	I	0.4	0.6	M	2.0	0.6	P	1.6	0.6	L	1.6	0.5	E	1.5	0.5	M	1.9	0.6	E	1.6	0.5	N	1.6	0.5	T	1.5	0.5	S	1.6	8.3								
12.9	P	1.6	0.6	E	1.6	0.5	D	1.6	0.6	E	1.5	0.5	S	1.8	0.4	T	1.5	0.5	R	1.6	0.6	I	0.5	0.5	A	1.9	0.5	N	1.6	0.6	S	1.8	12.8					
2.3	N	1.5	0.6	O	1.8	0.6	N	1.6	0.8	-	1.4	0.6	M	2.0	0.6	O	1.8	0.5	T	1.5	0.5	O	1.8	0.5	R	1.6	0.8	I	0.4	0.5	Z	1.8	0.4	E	1.5	0.5	D	1.6
	T	1.5	0.5	R	1.8	0.4	A	1.9	0.5	F	1.5	0.5	F	1.5	0.5	I	0.4	0.6	C	1.8	2.1																	
2.0		44.0	2.0																																			
4.8	B	3.3	1.1	U	3.4	1.3	C	3.3	0.9	K	3.3	1.0	L	3.0	1.0	E	3.0																					
	U	3.4	1.1	P	3.4	4.8																																

**REGULATORY SIGN (GROUND MOUNT)**  
**STA 24+03 (WB ENTRANCE RAMP)**

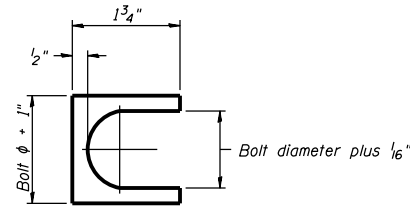


**THIS SIGN SHALL BE A GREEN TYPE ZZ SHEETING SIGN WITH CLEARVIEW 5W FONT FOR THE DESIGNATIONS AND E MODIFIED FOR THE CARDINAL DIRECTIONS**



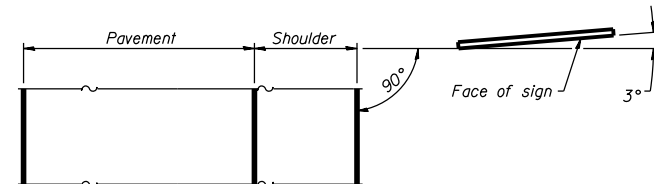
**ELEVATION**

W			
0.15W	2 spaces at 0.35W	0.15W	for 3 posts
0.125W	3 spaces at 0.25W	0.125W	for 4 posts
0.1W	4 spaces at 0.2W	0.1W	for 5 posts
0.1W	5 spaces at 0.16W	0.1W	for 6 posts
0.08W	6 spaces at 0.14W	0.08W	for 7 posts

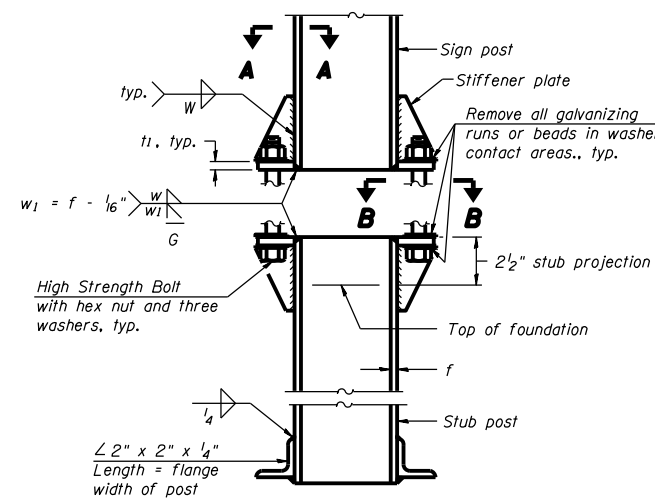


**SHIM DETAIL**

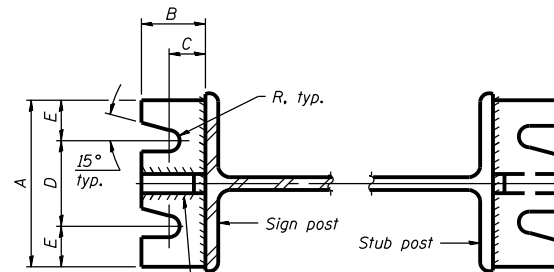
Furnish two 0.01" thick and two 0.03" thick stainless steel or brass (ASTM B36) shims per post.



**LOCATION SKETCH**

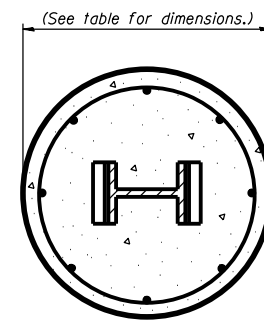


**ELEVATION  
SIGN POST & STUB POST**

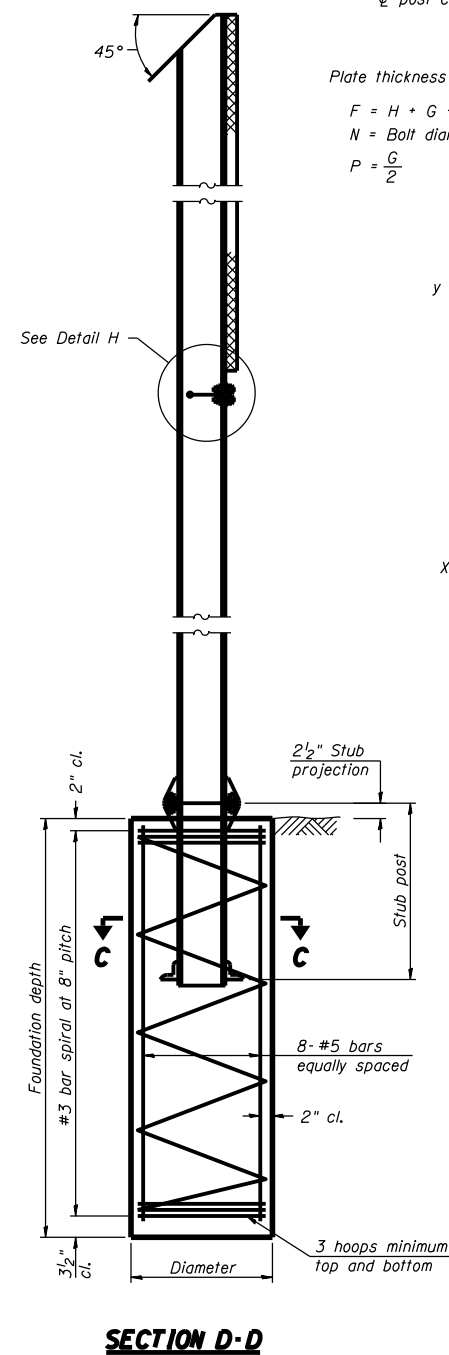


**SECTION A-A**

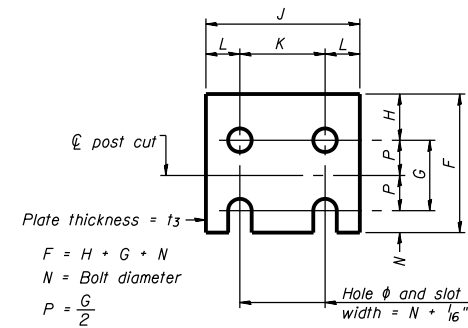
**SECTION B-B**



**SECTION C-C**

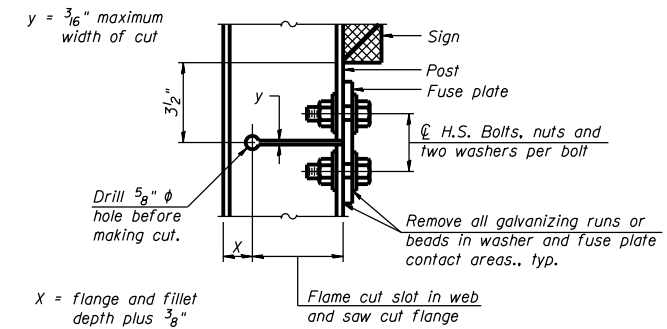


**SECTION D-D**

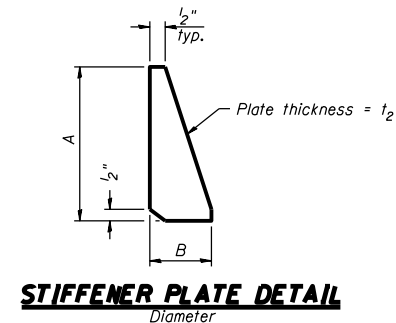


**FUSE PLATE DETAIL**  
(Install with notches down.)

FUSE PLATE DATA		
N = Bolt Diameter	G	H
1/2"	2"	1 1/8"
5/8"	2 1/4"	1 1/4"
3/4"	2 1/2"	1 3/8"
7/8"	2 3/4"	1 1/2"
1"	3"	1 5/8"
1 1/8"	3 1/4"	1 3/4"
1 1/4"	3 1/2"	1 7/8"



**DETAIL H**



**STIFFENER PLATE DETAIL**

**GENERAL NOTES**

Posts shall be plumbed by using shims with post-to-stub post connection bolts snug tight only. Final tightening of all High Strength Bolts shall be in accordance with Article 727.05 and threads at the junction of the bolt and nut shall be burred or center punched to prevent the nut from loosening.

LOADING: 80 m.p.h. wind with 30% gust factor, normal to sign.

DESIGN STRESSES:  
Structural steel - 20,000 p.s.i.  
Reinforcing steel - 20,000 p.s.i.  
Concrete - 1,400 p.s.i.  
Footing soil pressure - 2,000 p.s.f.

After fabrication, the post, fuse plate and upper 6", min. of the stub post shall be hot-dip galvanized in accordance with AASHTO M111. All bolts, nuts and washers shall be hot-dip galvanized in accordance with AASHTO M232.

Work this sheet with Base Sheet BAW-A-2.

BAW-A-1

6-1-12

(Sheet 1 of 2)

FILE NAME = D03306-SHT-PMK.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BREAK-AWAY WIDE FLANGE STEEL SIGN POST DETAILS	F.A.P. RTE. 316	SECTION (116) R,T	COUNTY BUREAU	TOTAL SHEETS 221	SHEET NO. 131	
PLOT SCALE = 20.0' / IN.	CHECKED - JOHNSON, B	REVISOR -	REVISOR -			SCALE:	SHEET NO. 5 OF 5 SHEETS	STA. 30+00 TO STA. 35+18.63	CONTRACT NO. 66901		
PLOT DATE = \$DATE\$	DATE - \$DATE\$	REVISOR -	REVISOR -			ILLINOIS FED. AID PROJECT					

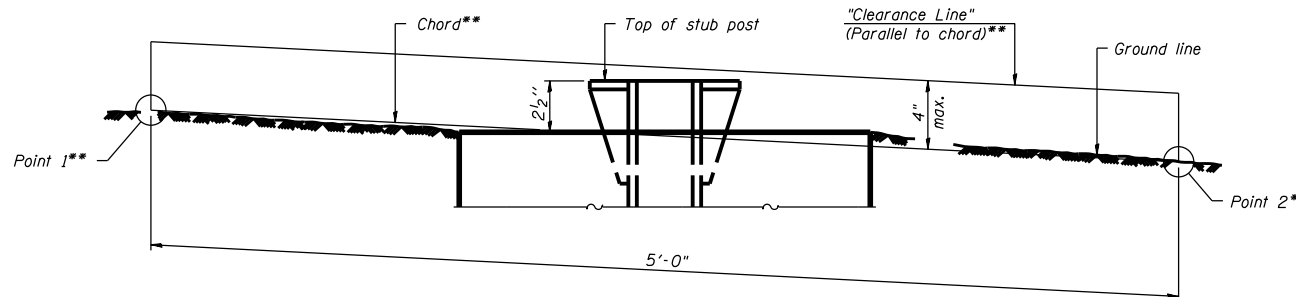
TABLE USED FOR CALCULATIONS OF SIGN SUPPORT			
SUPPORT	FOUNDATION		
	UNIT WEIGHT	BARS WEIGHT	CONCRETE
SIZE	PER LIN FT	PER POST	PER POST
W16x45	45 LBS/FT	130 LBS	2.23 CU YD
W14x38	38 LBS/FT	122 LBS	2.09 CU YD
W10x22	22 LBS/FT	92 LBS	1.18 CU YD
W8x18	18 LBS/FT	78 LBS	0.7 CU YD
W6x15	15 LBS/FT	78 LBS	0.7 CU YD
HSS4x2x1/4	8.81 LBS/FT	46 LBS	0.7 CU YD

LEGEND:  
 GS-GM = GUIDE SIGN GROUND MOUNT  
 DS-GM = DIRECTIONAL SIGN GROUND MOUNT  
 BAT = BREAKAWAY TUBULAR STEEL SIGN POST  
 BAW = BREAKAWAY WIDE FLANGE STEEL POST

POST	CONCRETE FOUNDATION TABLE								POST TO STUB POST CONNECTION DATA										FUSE PLATE DATA			
	Foundation			Reinforcement			Stub Post Length	Bolt Size	A	B	C	D	E	t <sub>1</sub>	t <sub>2</sub>	R	W	J	K	L	t <sub>3</sub>	
	Diameter	Minimum Depth	Concrete (cu. yds.) ①	Vertical Bars Length	Bar Diameter	Spirals Length																lbs. ②
W6x9	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-3"	5/8" x 3/4"	6"	2 1/4"	1 1/4"	3 1/2"	1 1/4"	3/4"	1/2"	1 1/32"	1/4"	4"	2 1/4"	7/8"	1/4"
W6x15	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	5/8" x 3/4"	6"	2 1/4"	1 1/4"	3 1/2"	1 1/4"	3/4"	1/2"	1 1/32"	1/4"	6"	3 1/2"	1 1/4"	3/8"
W8x18	2'-0"	6'-0"	0.70	5'-9"	1'-8 1/2"	79'-0"	78	2'-6"	3/4" x 3 3/4"	6"	2 1/2"	1 3/8"	3 1/4"	1 3/8"	1"	1/2"	1 1/32"	5/16"	5 1/4"	2 3/4"	1 1/4"	3/8"
W10x22	2'-6"	6'-6"	1.18	6'-3"	2'-2 1/2"	105'-0"	92	3'-0"	3/4" x 3 3/4"	6"	2 1/2"	1 3/8"	3 1/4"	1 3/8"	1"	1/2"	1 1/32"	5/16"	5 3/4"	2 3/4"	1 1/2"	1/2"
W10x26	2'-6"	7'-0"	1.27	6'-9"	2'-2 1/2"	112'-0"	98	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	5/32"	3/8"	5 3/4"	2 3/4"	1 1/2"	5/8"
W12x26	2'-6"	7'-9"	1.41	7'-6"	2'-2 1/2"	119'-0"	107	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	5/32"	3/8"	6 1/2"	3 1/2"	1 1/2"	5/8"
W14x30	3'-0"	7'-3"	1.90	7'-0"	2'-8 1/2"	145'-0"	113	3'-0"	7/8" x 4"	7"	2 3/4"	1 1/2"	4"	1 1/2"	1"	3/4"	5/32"	3/8"	6 3/4"	3 1/2"	1 5/8"	1/2"
W14x38	3'-0"	8'-0"	2.09	7'-9"	2'-8 1/2"	153'-0"	122	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 3/4"	4"	1 3/4"	1 1/4"	3/4"	1 1/32"	3/8"	6 3/4"	3 1/2"	1 5/8"	1/2"
W16x45	3'-0"	8'-6"	2.23	8'-3"	2'-8 1/2"	162'-0"	130	3'-6"	1" x 4 1/2"	7 1/2"	3"	1 3/4"	4"	1 3/4"	1 1/4"	3/4"	1 1/32"	3/8"	7"	3 1/2"	1 3/4"	1/2"

\*Dimensional changes required for varying site conditions shall be approved by the Engineer.

POST	FUSE PLATE BOLT SIZE																					
	Sign Height																					
	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	16'-0"	17'-0"	18'-0"	19'-0"	20'-0"	21'-0"	22'-0"	23'-0"	24'-0"	
W6x9	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	1/2" x 1 1/2"	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
W6x15	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	---	---	---	---	---	---	---	---	---	---	---	---	
W8x18	1/2" x 1 3/4"	1/2" x 1 3/4"	1/2" x 1 3/4"	5/8" x 2"	5/8" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	3/4" x 2"	---	---	---	---	---	---	---	---	---	---	---	---	
W10x22	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	---	---	---	---	---	---	---	---	
W10x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	---	---	---	---	---	---	---	---	
W12x26	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	---	---	---	---	---	---	---	
W14x30	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2"	5/8" x 2"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	3/4" x 2 1/4"	---	---	---	
W14x38	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"
W16x45	---	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	1/2" x 2"	5/8" x 2 1/4"	5/8" x 2 1/4"	5/8" x 2 1/4"	3/4" x 2 1/2"	3/4" x 2 1/2"	3/4" x 2 1/2"	7/8" x 2 1/2"	7/8" x 2 1/2"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"	1" x 2 3/4"



**ELEVATION**  
**GROUND LINE & STUB POST**

\*\* For all "Point 1" and "Point 2" locations, "Clearance Line" must be at or above top of stub post.

- ① Quantity includes all concrete necessary for one foundation.
- ② Includes reinforcement bars and spiral hooping for one foundation. Cost of rebar included in the cost of Concrete Foundation.

BAW-A-2

6-1-12

(Sheet 2 of 2)

FILE NAME = D03306-SHT-PMKLDGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BREAK-AWAY WIDE FLANGE STEEL SIGN POST TABLES	F.A.P. RTE. = 316	SECTION = (116) R,T	COUNTY = BUREAU	TOTAL SHEETS = 221	SHEET NO. = 132	
PLOT SCALE = 20.0' / IN.	CHECKED - JOHNSON, B	REVISED -	SCALE =			SHEET NO. 5 OF 5 SHEETS	STA. 30+00 TO STA. 35+18.63	CONTRACT NO. 66901		ILLINOIS FED. AID PROJECT	
PLOT DATE = \$DATE*	DATE = \$DATE*	REVISED -									



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**GENERAL NOTES**

Reinforcement bars shall conform to the requirements of AASHTO A706 Grade 60. (IL modified). See special provisions

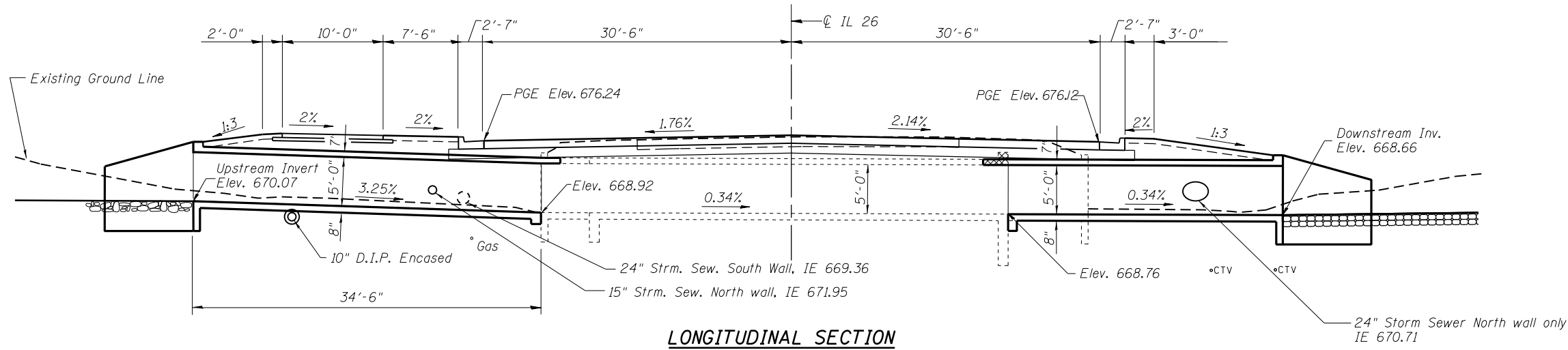
Exposed edges shall be beveled 3/4" unless otherwise noted All construction joints shall be bonded.

A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

Bars indicated thus 12x4-#5 etc. indicates 12 lines of #5 bars with 4 lengths per line.

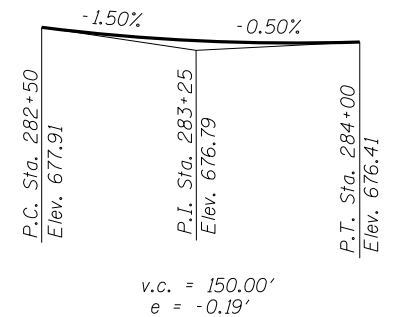
Precast culvert alternate is not allowed

Partial removal of existing structure is included in the cost of concrete box culverts.

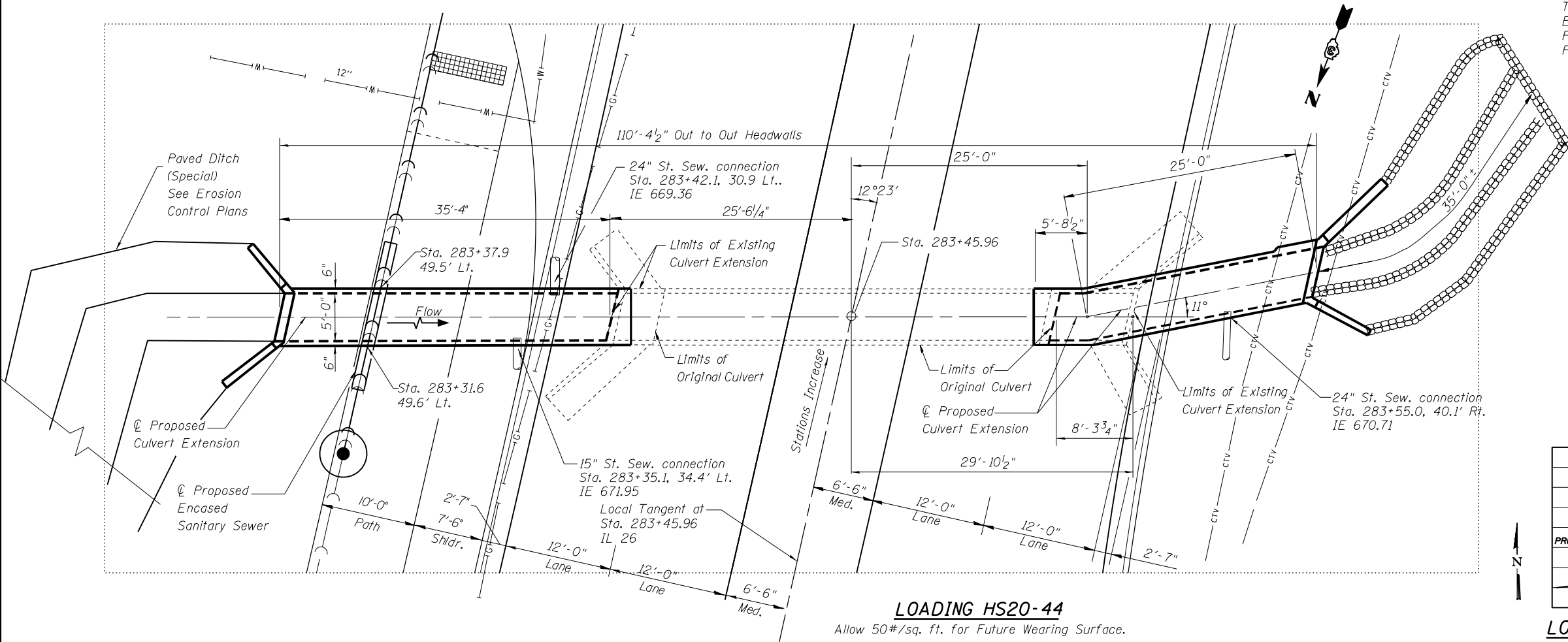


**LONGITUDINAL SECTION**  
Dimensions at Rt. L's to Centerline Roadway

Proposed Curve Data  
P.I. Sta. 282+14.71  
 $\Delta = 6^\circ 50' 33''$  (LT)  
 $D = 0^\circ 59' 52''$   
 $R = 5,742.95$   
 $T = 343.33'$   
 $E = 10.25'$   
P.C. Sta. 278+71.38  
P.T. Sta. 285+57.22



**PROFILE GRADE**



**PLAN**

**LOADING HS20-44**  
Allow 50#/sq. ft. for Future Wearing Surface.

**DESIGN SPECIFICATIONS**

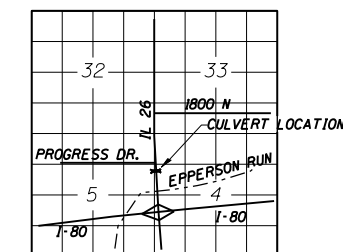
2002 AASHTO

**DESIGN STRESSES**

**FIELD UNITS**  
 $f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (reinforcement)

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Concrete Box Culverts	Cu. Yd.	40.8
Reinforcement Bars	Pound	7,750
Fabric Formed Concrete Revetment Mats	Sq. Yd.	54.5
Trench Backfill	Cu. Yd.	4.4

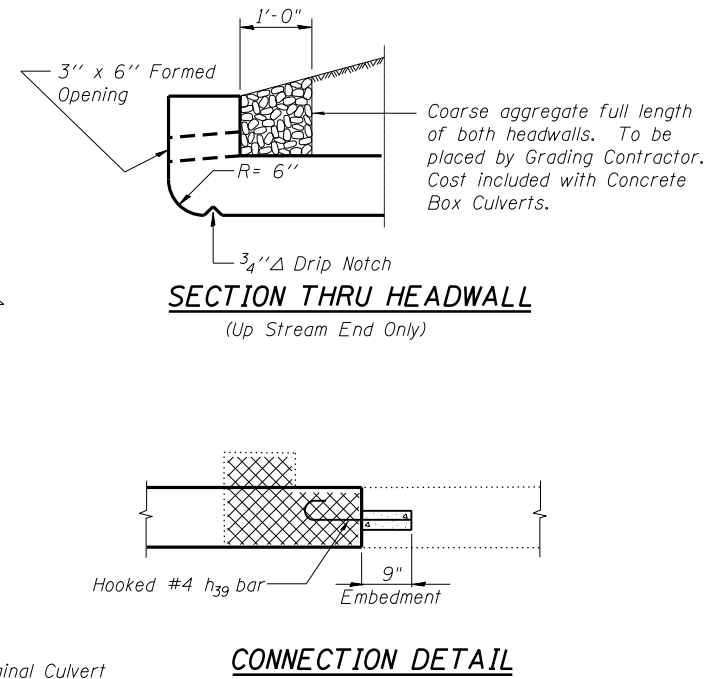
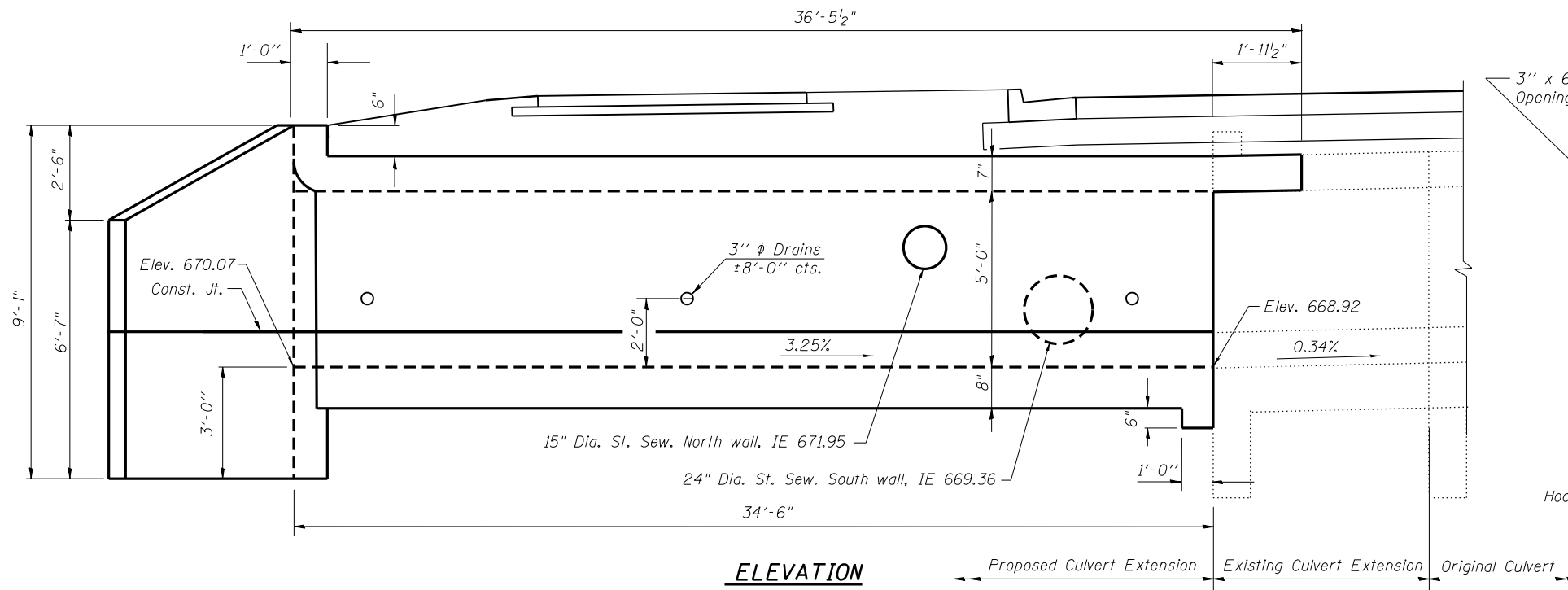


**LOCATION SKETCH**

**GENERAL PLAN**  
**IL.26**  
**OVER UNNAMED CREEK**  
**BUREAU COUNTY**  
**STATION 283+45.96**

DESIGNED	MHM
CHECKED	JBF
DRAWN	RAP
CHECKED	JBF

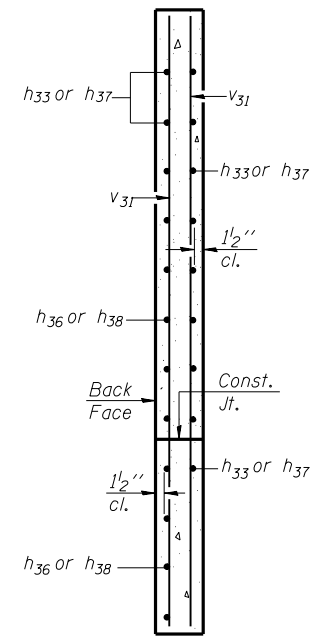
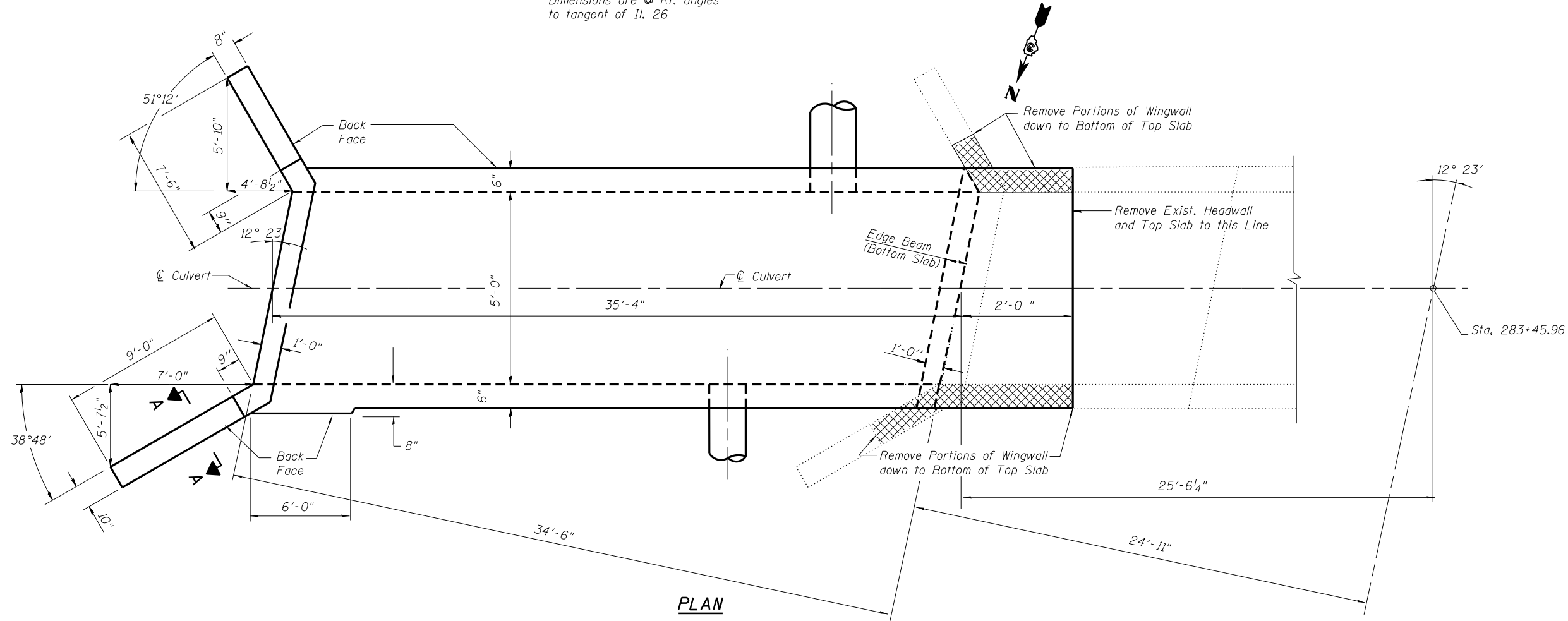
SHEET NO. 1 OF 5 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	316	(116) R,T	BUREAU	212	133
FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 66901					



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a31	125	#7	7'-4"	U
a32	19	#4	5'-9"	—
d30	5	#4	4'-6"	L
h30	14	#7	20'-3"	—
h31	24	#4	18'-2"	—
h32	20	#5	18'-4"	—
h33	7	#6	8'-0"	—
h34	4	#6	5'-10"	—
h35	6	#6	5'-10"	—
h36	7	#6	12'-0"	—
h37	7	#6	8'-0"	—
h38	7	#6	10'-6"	—
h39	12	#4	2'-1"	—
s30	5	#4	3'-9"	L
v30	96	#4	5'-11"	—
v31	8	#4	8'-9"	—
v32	8	#4	3'-6"	—
Concrete Box Culverts			Cu. Yd.	21.2
Reinforcement Bars			Pound	4,180

Reinforcement designated (E) shall be Epoxy coated



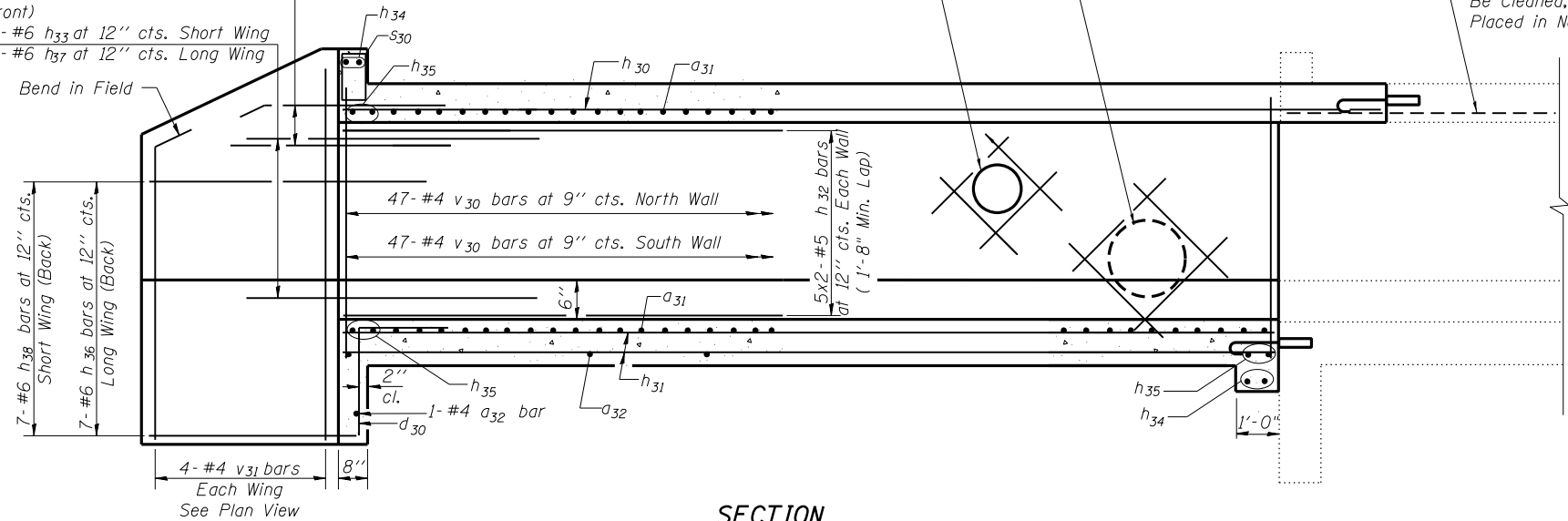
**UPSTREAM DETAILS AND SECTION STATION 283+45.96**

DESIGNED	MHM
CHECKED	JBF
DRAWN	RAP
CHECKED	JBF

SHEET NO. 2 OF 5 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	316	(116) R,T	BUREAU	212	134
	CONTRACT NO. 66901				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

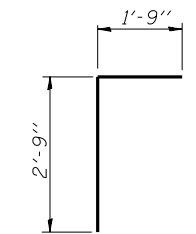
(Back)  
 2- #6 h<sub>33</sub> at 12" cts. Short Wing  
 2- #6 h<sub>37</sub> at 12" cts. Long Wing

(Front)  
 5- #6 h<sub>33</sub> at 12" cts. Short Wing  
 5- #6 h<sub>37</sub> at 12" cts. Long Wing

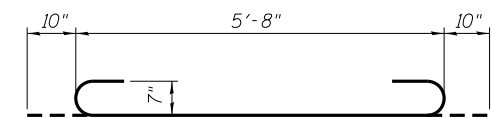


**SECTION**

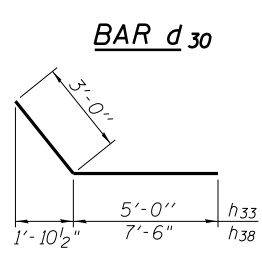
Dimensions at Rt. L's to  $\phi$  Roadway



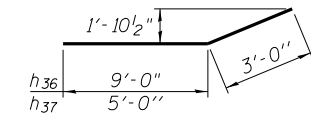
**BAR d 30**



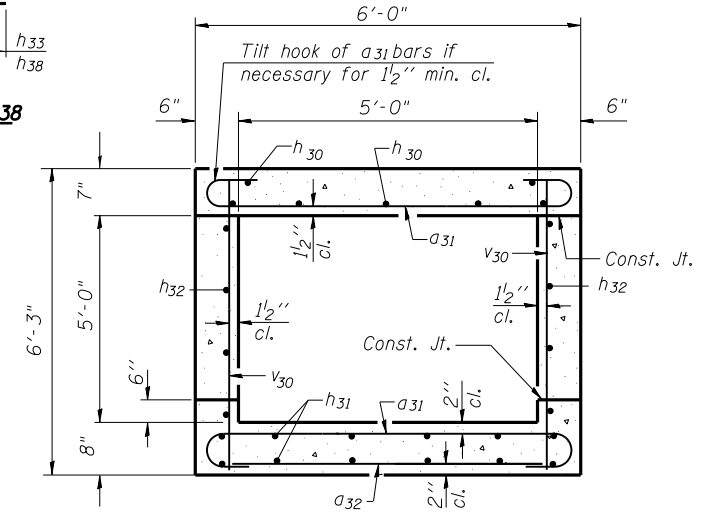
**BAR a 31**



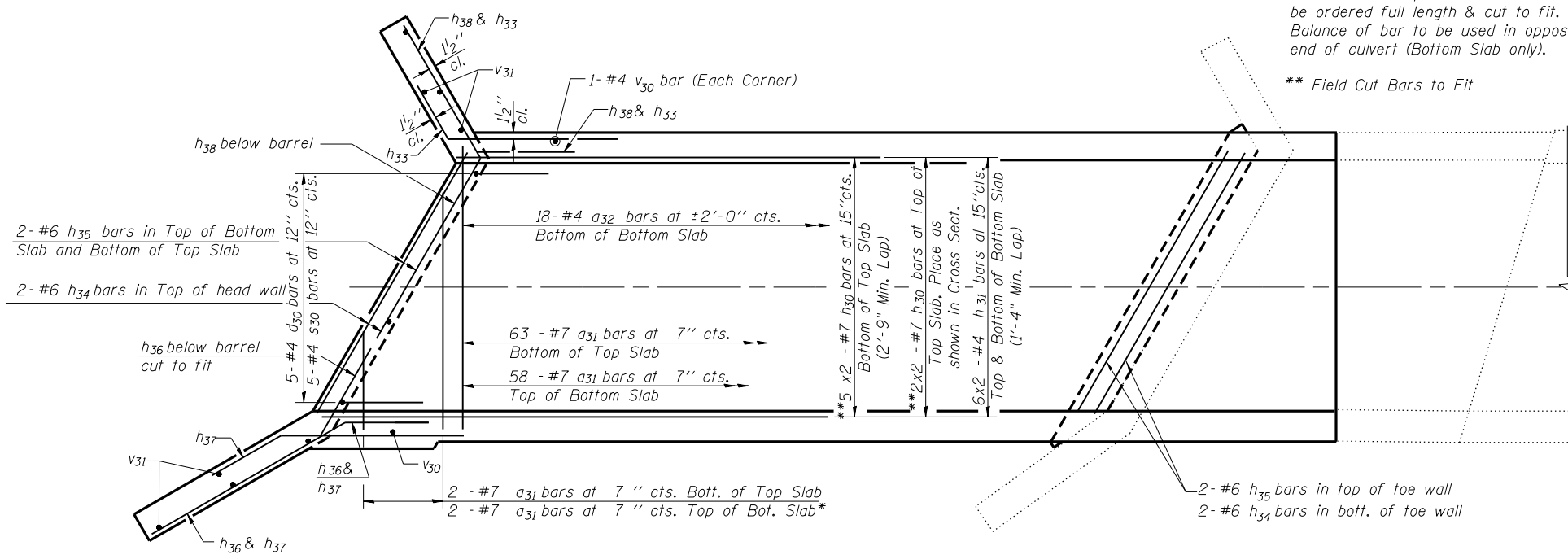
**BARS h 33 & h 38**



**BARS h 36 & h 37**



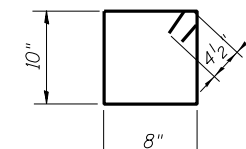
**SECTION THRU BARREL**



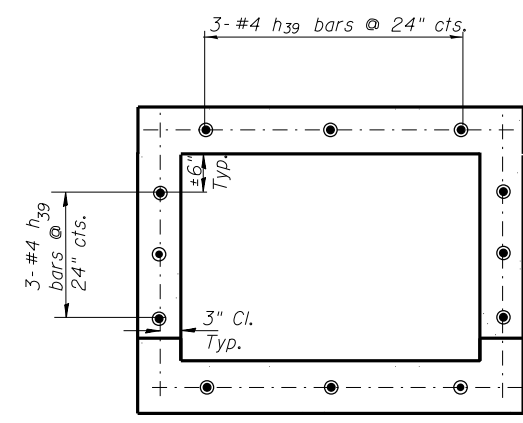
**PLAN**

\* a bars in skew portion of slab shall be ordered full length & cut to fit. Balance of bar to be used in opposite end of culvert (Bottom Slab only).

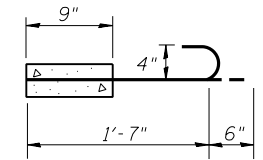
\*\* Field Cut Bars to Fit



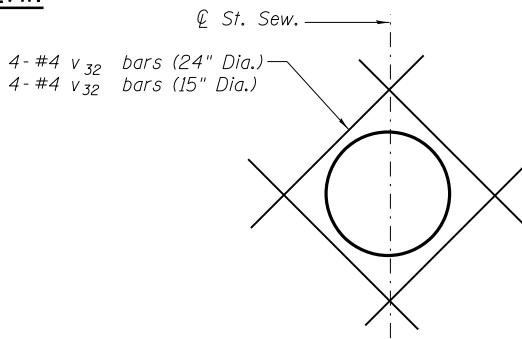
**BAR s 30**



**END ELEVATION**



**BAR h 39**



**TYPICAL WALL OPENING REINF.**

24" & 15" Dia. Storm Sewer

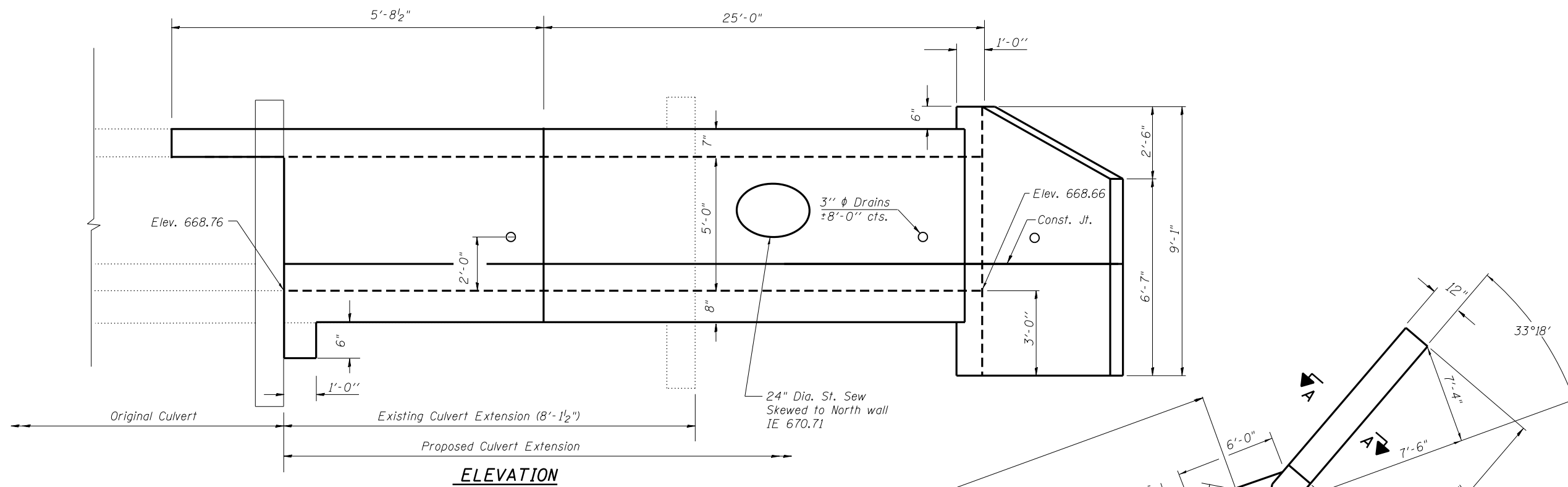
**LAP LENGTH**

- #4 Bar 1'-4"
- #5 Bar 1'-8"
- #6 Bar 2'-0"
- #7 Bar 2'-9"
- #8 Bar 3'-8"

DESIGNED	MHM
CHECKED	JBF
DRAWN	RAP
CHECKED	JBF

**UPSTREAM DETAILS AND SECTION  
 STATION 283+45.96**

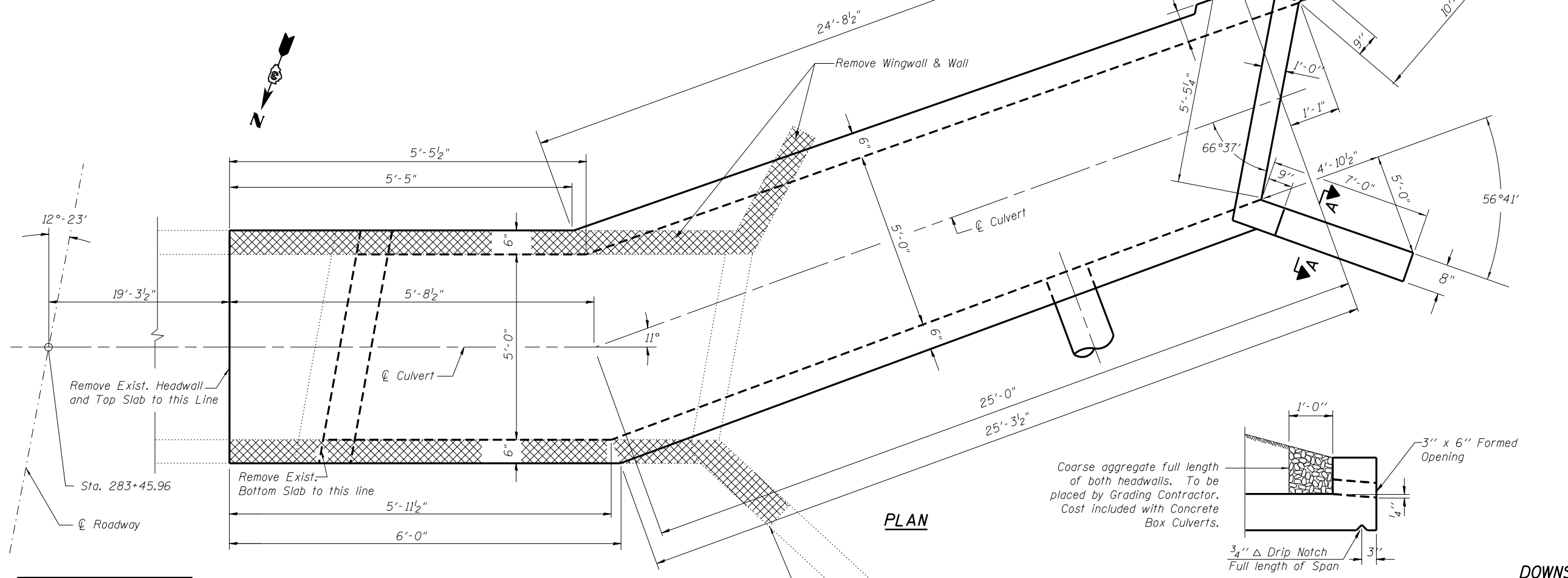
SHEET NO. 3 OF 5 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	316	(116) R,T	BUREAU	212	135
			CONTRACT NO. 66901		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			



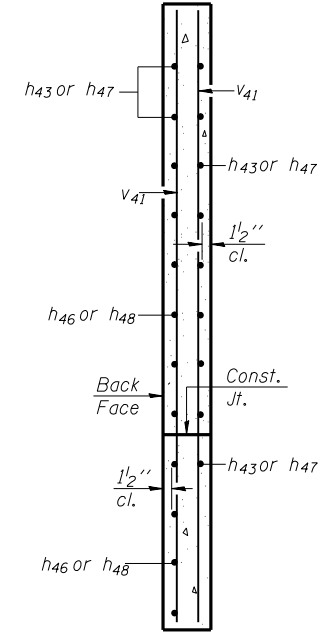
**ELEVATION**

**BILL OF MATERIAL**

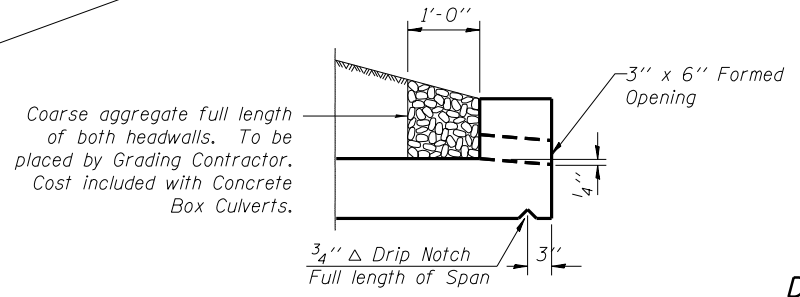
Bar	No.	Size	Length	Shape
d41	106	#7	7'-4"	
d42	16	#4	5'-9"	
d40	5	#4	4'-6"	
h40	7	#7	30'-11"	
h41	14	#4	28'-0"	
h42	5	#5	28'-2"	
h43	7	#6	8'-0"	
h44	2	#6	5'-8"	
h45	2	#6	5'-8"	
h46	7	#6	13'-6"	
h47	7	#6	8'-0"	
h48	7	#6	10'-0"	
h49	12	#4	2'-1"	
h410	5	#5	28'-0"	
h440	2	#6	6'-2"	
h450	4	#6	6'-2"	
s40	5	#4	3'-9"	
v40	79	#4	5'-11"	
v41	8	#4	8'-9"	
v42	4	#4	3'-6"	
Concrete Box Culverts			Cu. Yd.	19.6
Reinforcement Bars			Pound	3,570



**PLAN**



**SECTION A-A**



**SECTION THRU HEADWALL**  
(Down Stream End Only)

**DOWNSTREAM DETAILS AND SECTION**  
**STATION 283+45.96**

DESIGNED	MHM
CHECKED	JBF
DRAWN	RAP
CHECKED	JBF

SHEET NO. 4 OF 5 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	316	(116) R,T	BUREAU	212	136
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT		
CONTRACT NO. 66901					



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**GENERAL NOTES**

Reinforcement bars shall conform to the requirements of AASHTO A706 Grade 60. (IL modified). See special provisions

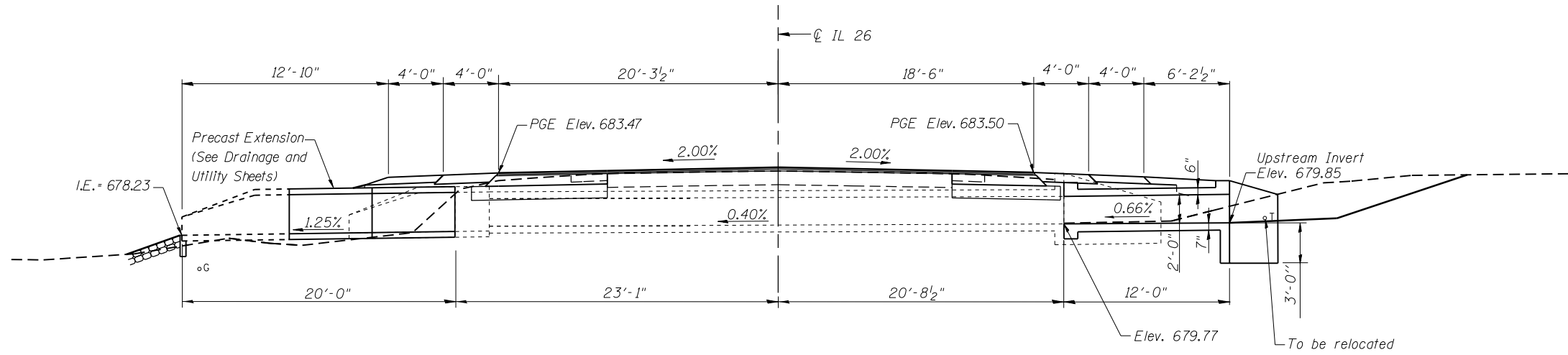
Exposed edges shall be beveled  $\frac{3}{4}$ " unless otherwise noted. All Construction joints shall be bonded.

A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

Bars indicated thus 12x4-#5 etc. indicates 12 lines of #5 bars with 4 lengths per line.

Precast culvert alternate is not allowed at upstream end.

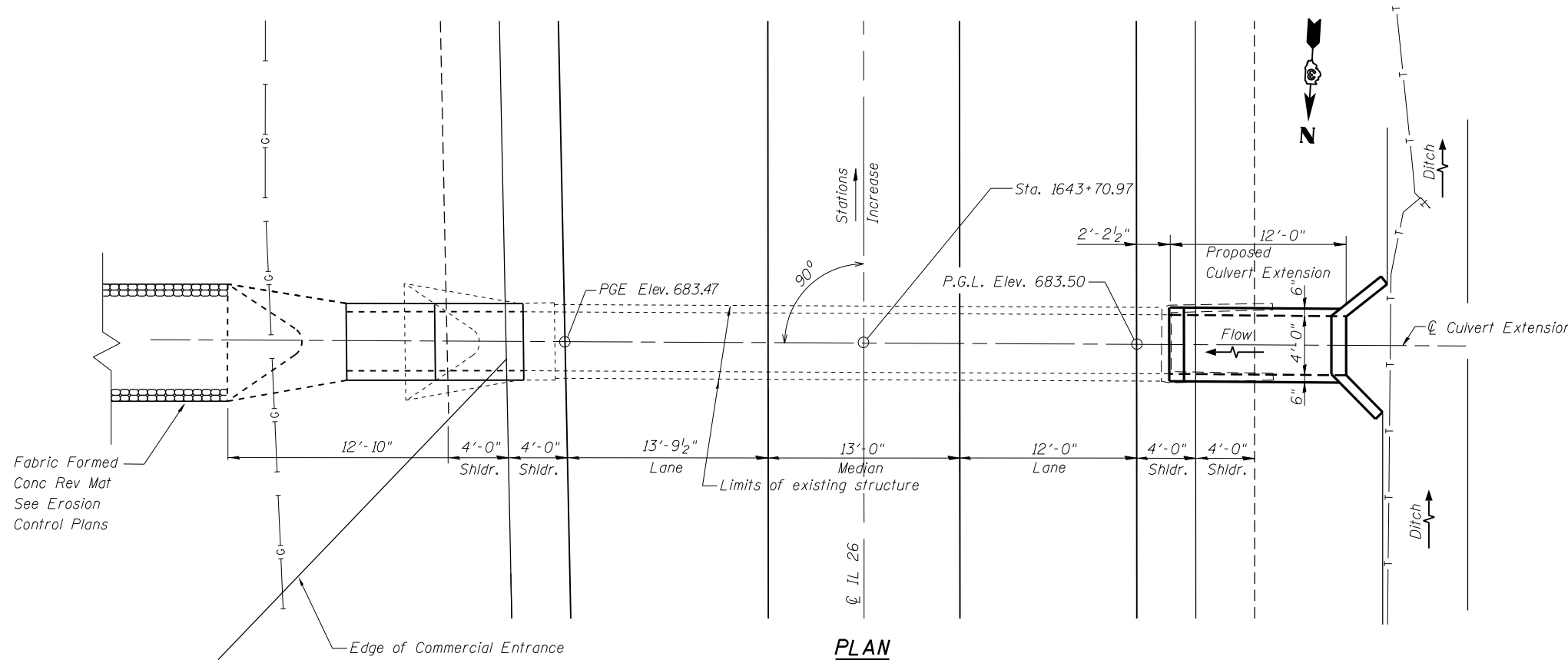
Partial removal of existing structure is included in the cost of concrete box culverts.



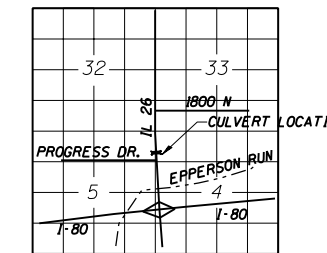
**LONGITUDINAL SECTION**

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Concrete Box Culverts	Cu. Yd.	5.1
Reinforcement Bars	Pound	1,100



**PLAN**



**LOCATION SKETCH**

**LOADING HS20-44**  
Allow 50#/sq. ft. for Future Wearing Surface.

**DESIGN SPECIFICATIONS**  
2002 AASHTO

**DESIGN STRESSES**

FIELD UNITS

$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (reinforcement)

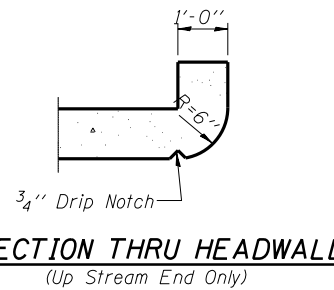
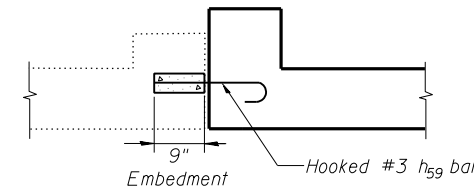
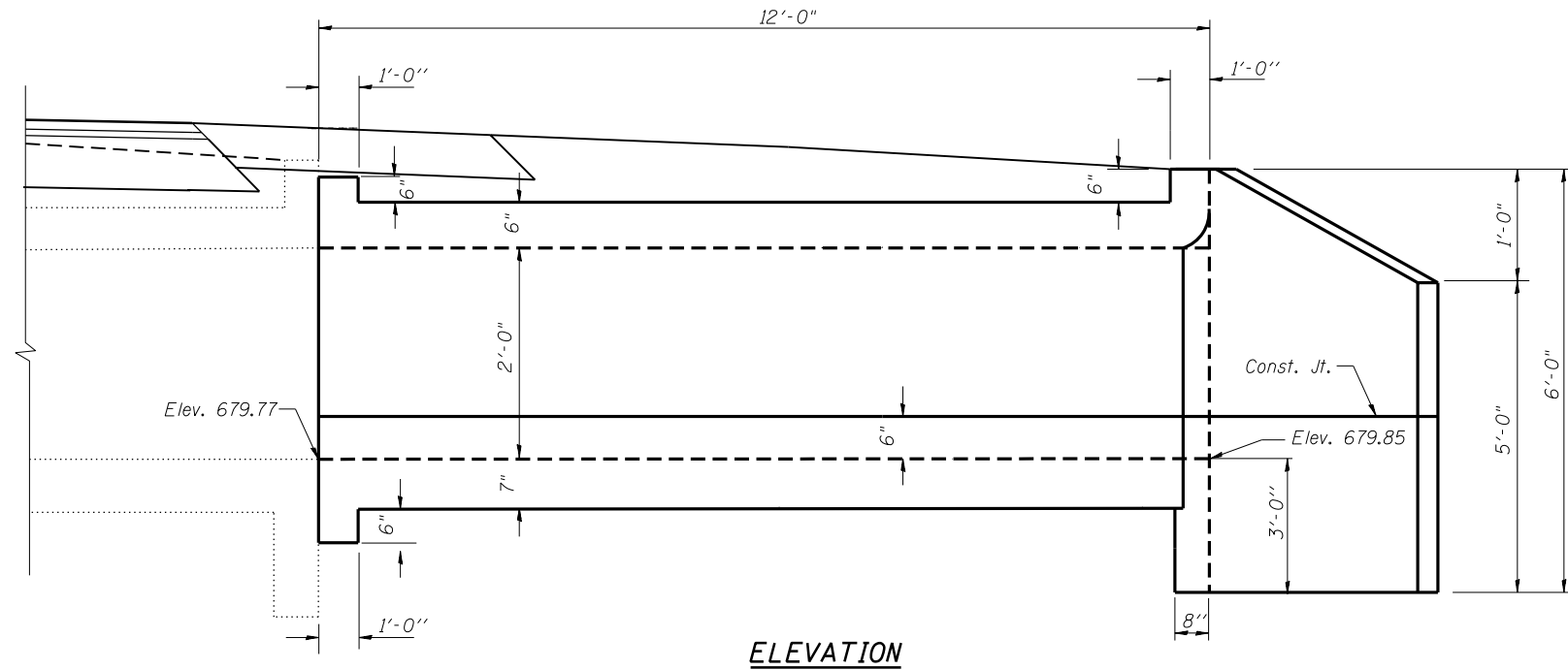
**GENERAL PLAN**

**IL.26**  
**OVER UNNAMED CREEK**  
**BUREAU COUNTY**  
**4'-0"x2'-0" R.C.BOX CULVERT**  
**STATION 1643+70.97**

DESIGNED	MHM
CHECKED	JBF
DRAWN	RAP
CHECKED	JBF

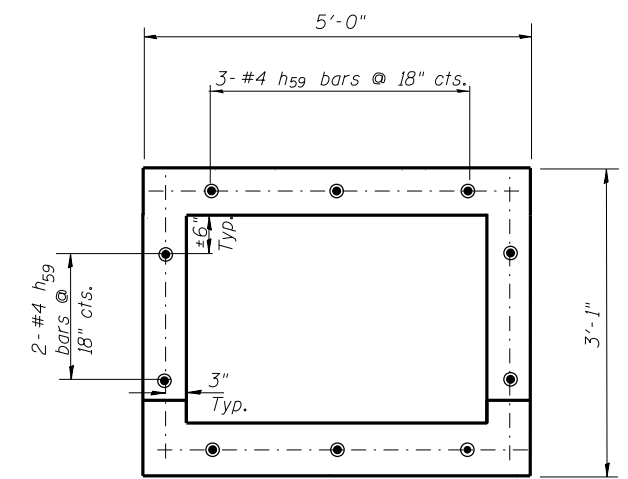
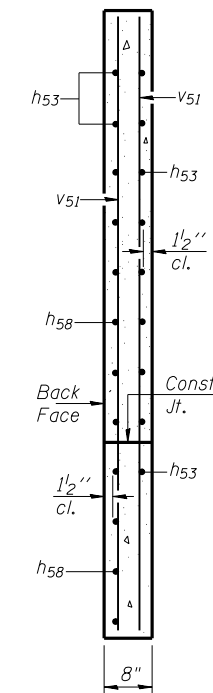
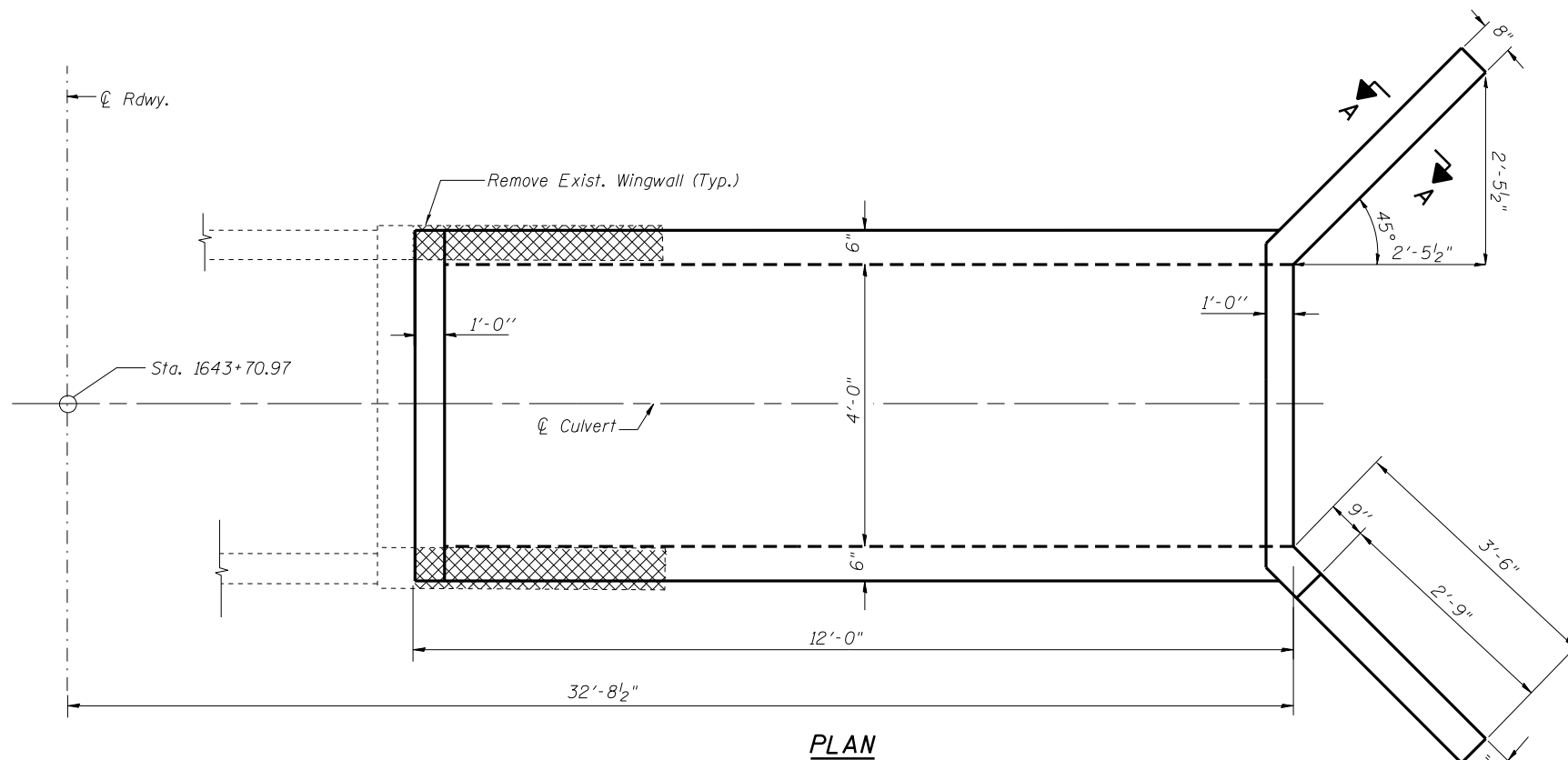
SHEET NO. 1 OF 3 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	316	(116) R,T	BUREAU	212	138
FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 66901		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
as1	50	#6	6'-0"	
as2	8	#4	4'-9"	
as3	4	#4	4'-6"	
h50	7	#6	11'-8"	
h51	10	#4	11'-8"	
h52	10	#5	11'-8"	
h53	10	#4	8'-0"	
h54	6	#6	4'-8"	
h55	4	#6	4'-8"	
h58	12	#4	6'-6"	
h59	10	#3	2'-1"	
s50	4	#4	3'-7"	
v50	36	#4	2'-9"	
v51	8	#4	5'-8"	
Concrete Box Culverts			Cu. Yd.	5.1
Reinforcement Bars			Pound	1,100

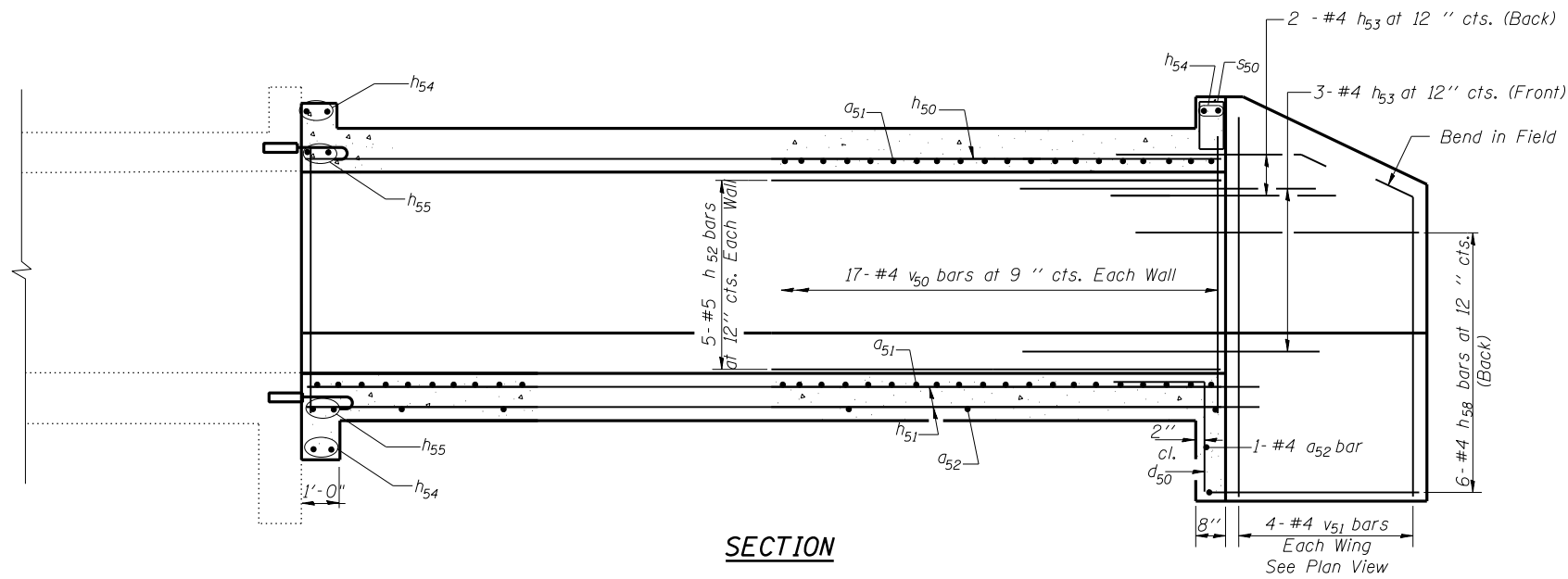


**UPSTREAM DETAILS AND SECTION**  
**4'-0" x 2'-0" R.C. Box Culvert**  
**STA. 1643+70.97**

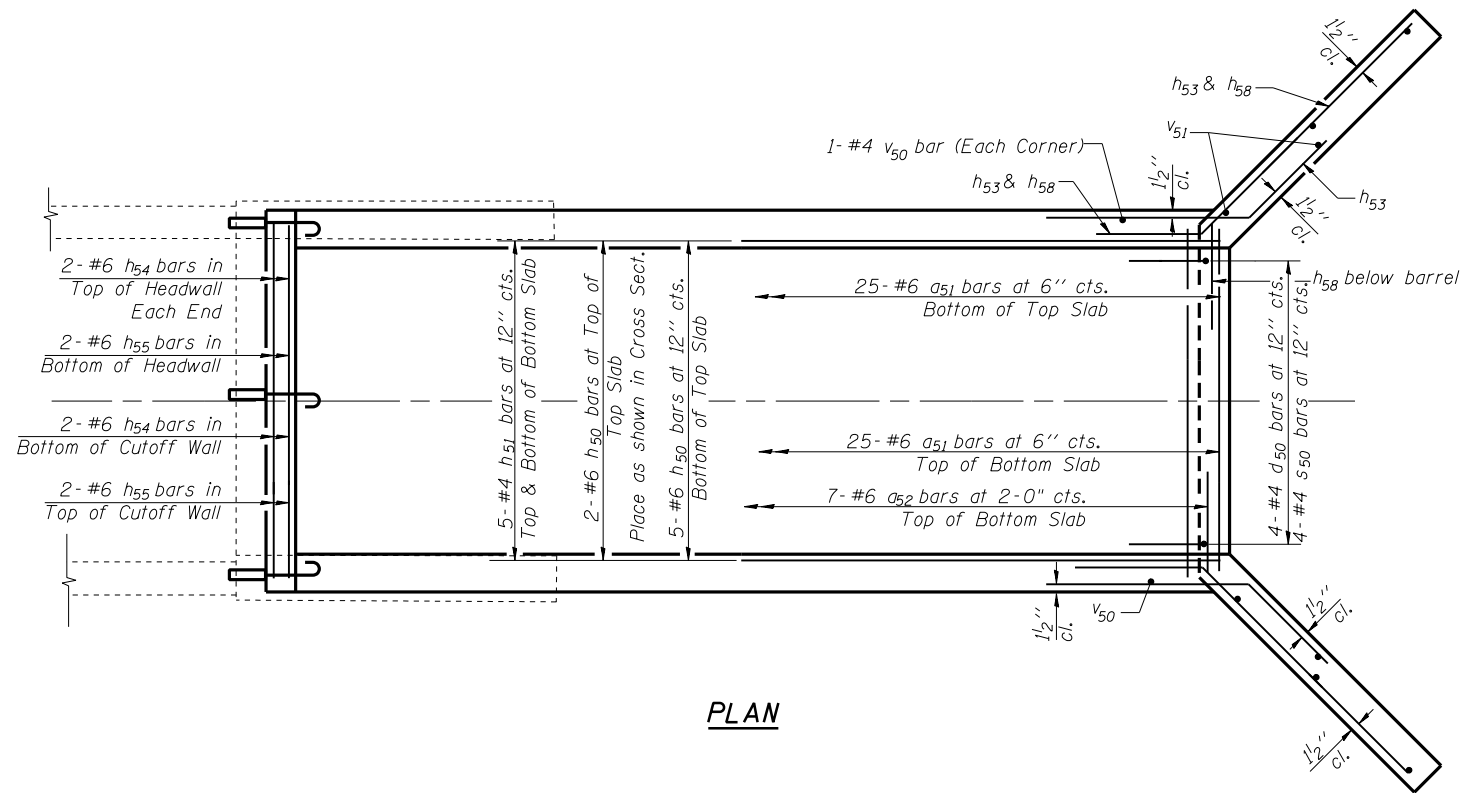
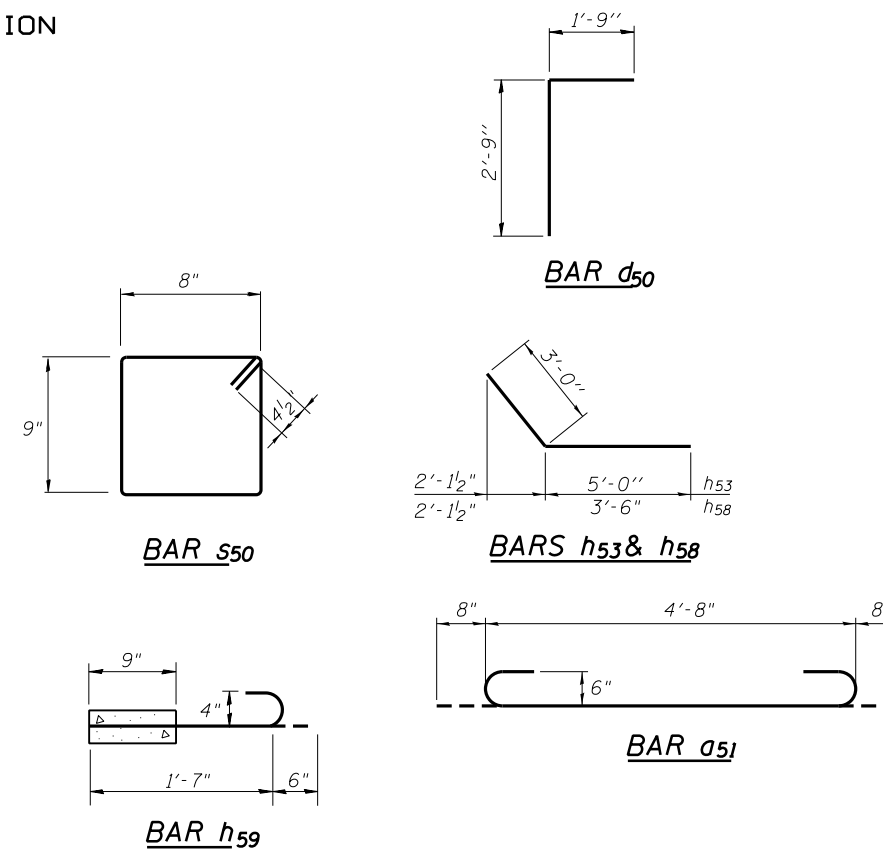
DESIGNED	MHM
CHECKED	JBF
DRAWN	RAP
CHECKED	JBF

SHEET NO. 2 OF 3 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	316	(116) R,T	BUREAU	212	139
FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 66901					

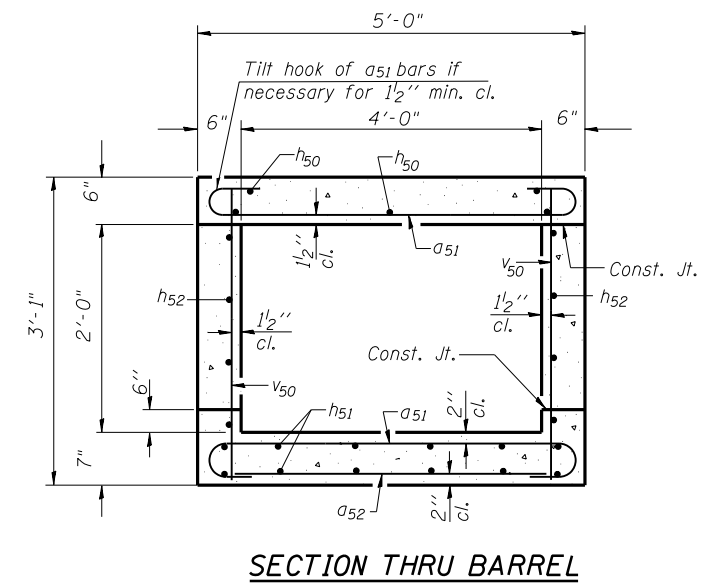
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**SECTION**



**PLAN**



**SECTION THRU BARREL**

**UPSTREAM DETAILS AND SECTION**  
**4'-0" x 2'-0" R.C. Box Culvert**  
**STA. 1643+70.97**

DESIGNED	MHM
CHECKED	JBF
DRAWN	RAP
CHECKED	JBF

SHEET NO. 3 OF 3 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	316	(116) R,T	BUREAU	212	140
	CONTRACT NO. 66901				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		



Benchmark: BM 503- 80d spike in shoulder  
Sta. 291+73.49, 20 JY R.T., Elev. 675.68

Existing Structure: Double 8'-7" x 7'-0" reinforced concrete box culvert.  
The structure is 118' out to out, and is not skewed.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

Reinforcement bars shall conform to the requirements of AASHTO A706 Grade 60. (IL modified). See special provisions  
Exposed edges shall be beveled 3/4" unless otherwise noted.

All Construction joints shall be bonded.  
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

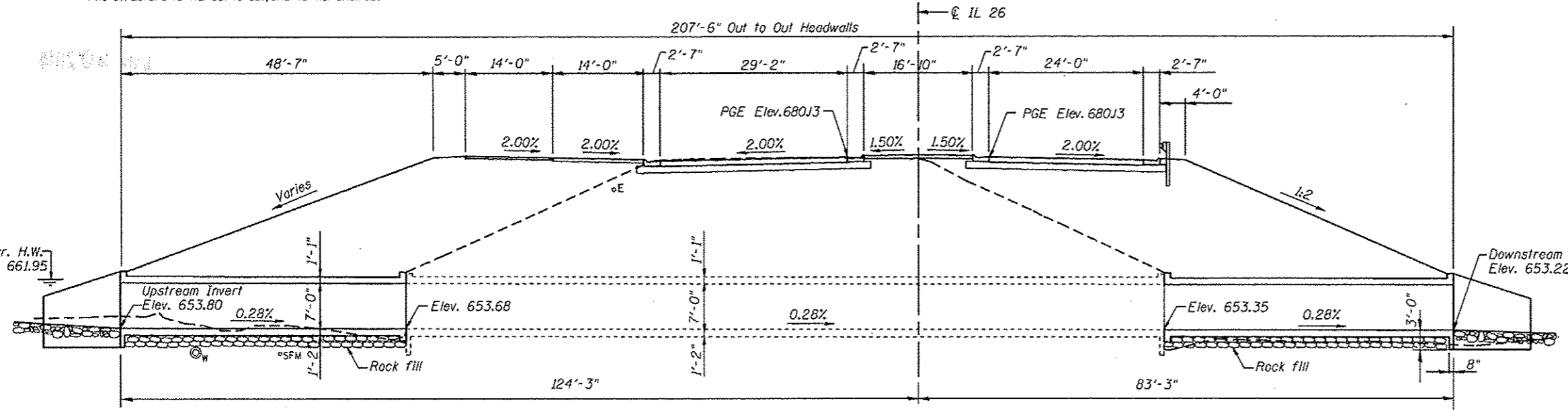
Bars indicated thus 12x4-#5 etc. indicates 12 lines of #5 bars with 4 lengths per line.

Precast culvert alternate is not allowed.

The limits and quantities of removal and replacement shown may be modified by the District Geotechnical and Field Engineer for variable subsurface conditions encountered in the field.

The Rockfill shall be capped with 6 in. of CA7 and satisfy the Standard Specifications unless otherwise indicated in the Special Provisions. The cost of the capping material shall be included in the pay item "Rockfill".

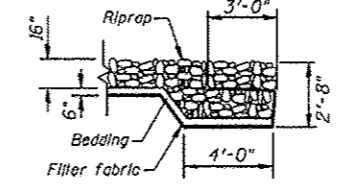
Minor spalls located on the end faces of the existing culvert shall be repaired according to the special provision Structural Repair of Concrete. The cost of these repairs shall be included in the pay item "Concrete Box Culverts".



LONGITUDINAL SECTION  
Dimensions at Rt. L's to Centerline Roadway

DESIGN SCOUR TABLE

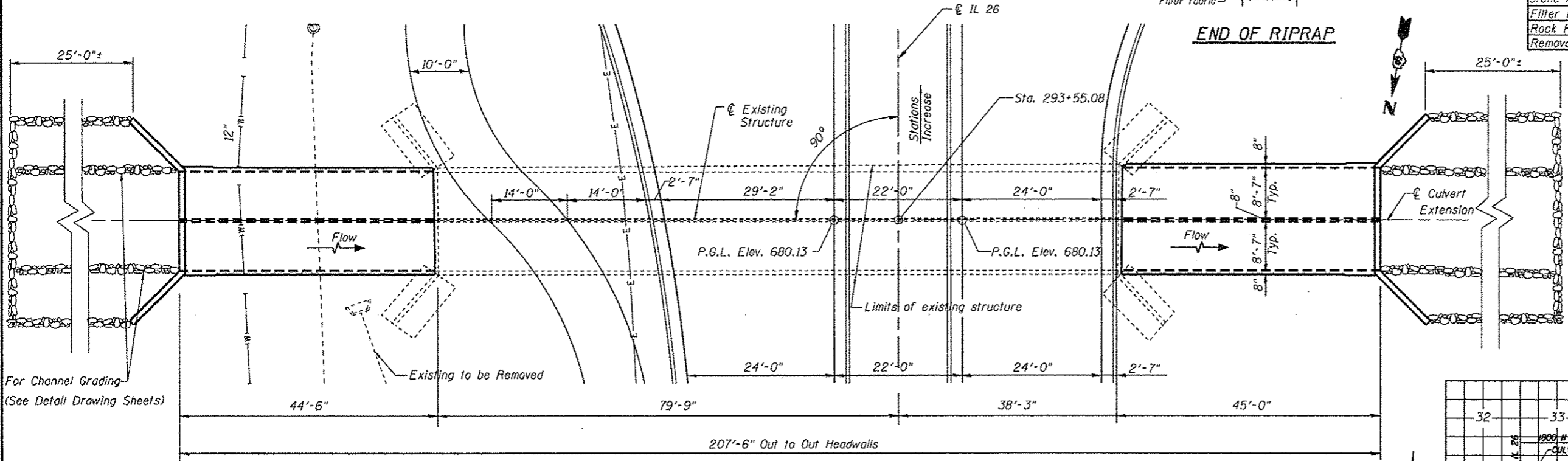
Location	Upstream	Downstream
Design Scour Elevation	650.74	650.29



END OF RIPRAP

TOTAL BILL OF MATERIAL

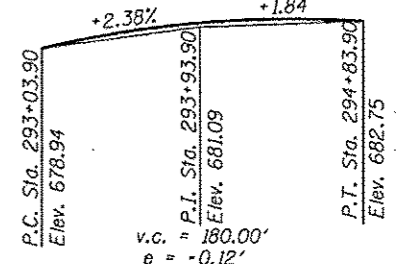
ITEM	UNIT	TOTAL
Concrete Box Culverts	Cu. Yd.	215.6
Reinforcement Bars	Pound	32,050
Name Plates	Each	1
Stone Riprap, Class A5	Sq. Yd.	250.0
Filter Fabric	Sq. Yd.	250.0
Rock Fill	Cu. Yd.	153.8
Removal & Disposal of Unsuitable Material	Cu. Yd.	156.7



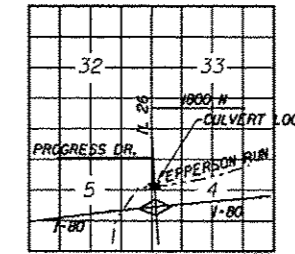
PLAN

STATION 293+55.08  
BUILT 20 BY  
STATE OF ILLINOIS  
F.A.P. RT. 316 SEC. 116 R,T  
LOADING HS20  
STR. NO. 006-2506

NAME PLATE  
See Std. 515001



PROFILE GRADE



LOCATION SKETCH

GENERAL PLAN  
IL.26  
OVER EPPERSON RUN  
BUREAU COUNTY  
STATION 293+55.08  
STRUCTURE NO. 006-2506

WATERWAY INFORMATION

Drainage Area = 4.86 sq. mi Low Grade Elev. 678.85 @ Sta. 293+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Not. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	757	108.5	106.4	659.95	1.09	1.10	661.04	661.05
Base	50	1235	120.2	120.2	661.95	2.38	2.67	664.33	664.32
Overtopping	100	1451	120.2	120.2	662.70	3.34	3.35	666.04	666.05
Max. Calc.	500	1977	120.2	120.2	664.25	6.38	6.52	670.63	670.77

10 Year Velocity through existing culvert = 5.3 fps  
10 Year Velocity through prop. culvert = 6.3 fps

LOADING HS20-44  
Allow 50#/sq. ft. for Future Wearing Surface.  
DESIGN SPECIFICATIONS  
2002 AASHTO

DESIGN STRESSES

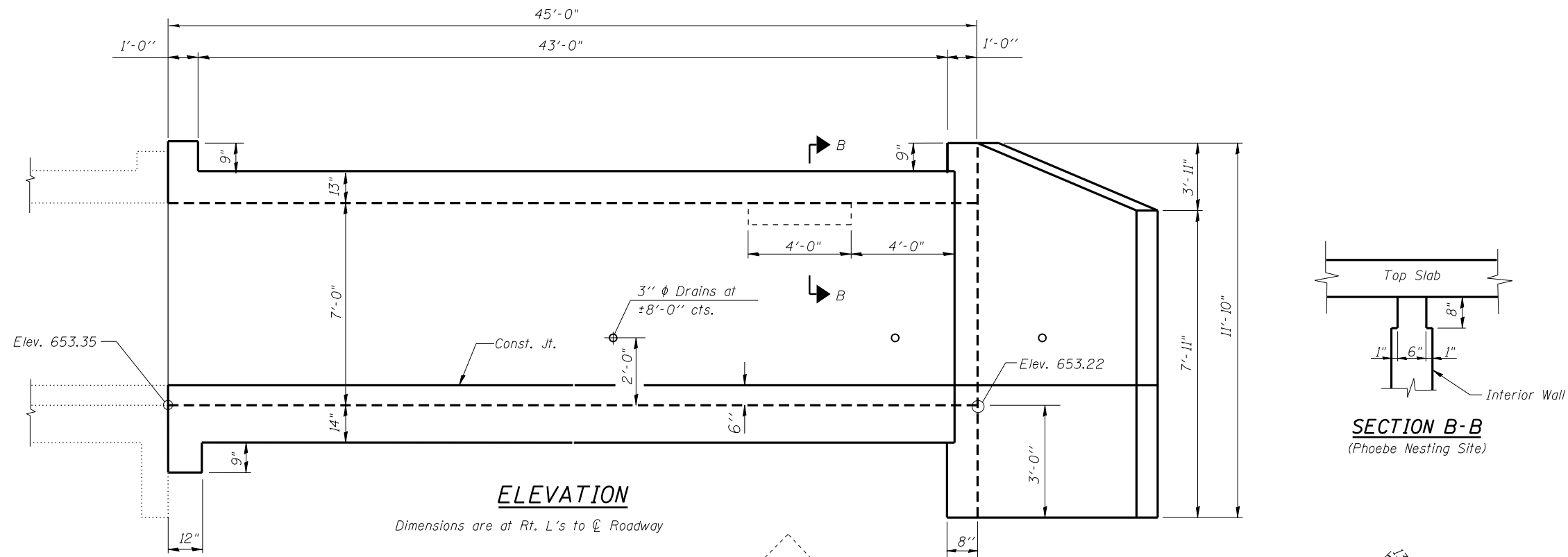
FIELD UNITS  
f<sub>c</sub> = 3,500 psi  
f<sub>y</sub> = 60,000 psi (reinforcement)

Exp. 11/30/12



DESIGNED	MHM
CHECKED	JBF
DRAWN	RAP
CHECKED	JBF

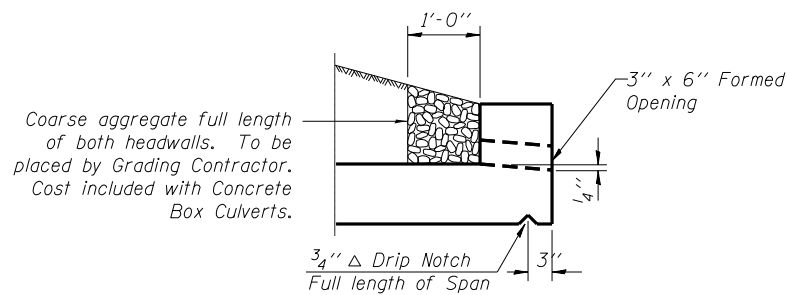
SHEET NO. 1 OF 5 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	316	(116) R,T	BUREAU	221	141
			CONTRACT NO. 66901		
FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT	



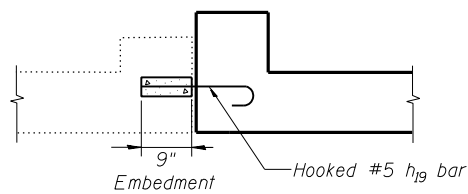
**ELEVATION**  
Dimensions are at Rt. L's to  $\varnothing$  Roadway

**BILL OF MATERIAL**

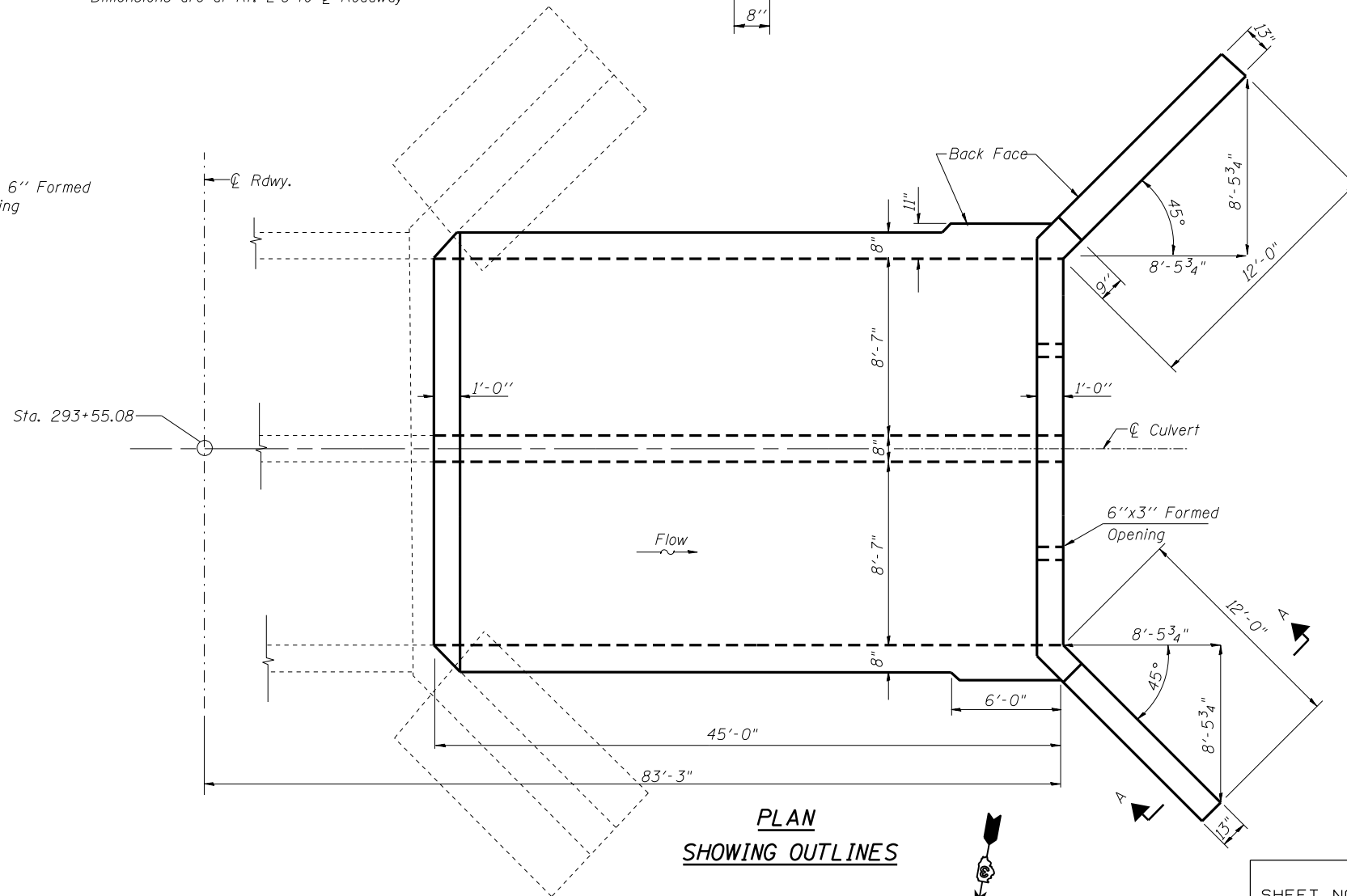
Bar	No.	Size	Length	Shape
d <sub>10</sub>	134	#5	20'-0"	
d <sub>11</sub>	122	#7	7'-0"	
d <sub>12</sub>	124	#4	7'-1"	
d <sub>10</sub>	20	#4	4'-6"	
h <sub>10</sub>	84	#6	23'-4"	
h <sub>11</sub>	68	#6	23'-4"	
h <sub>12</sub>	42	#6	23'-4"	
h <sub>13</sub>	26	#8	8'-0"	
h <sub>14</sub>	6	#6	18'-10"	
h <sub>15</sub>	7	#6	18'-10"	
h <sub>16</sub>	22	#8	15'-0"	
h <sub>19</sub>	32	#5	2'-2"	
v <sub>10</sub>	236	#5	8'-11"	
v <sub>11</sub>	8	#4	11'-6"	
Concrete Box Culverts			Cu. Yd.	108.3
Reinforcement Bars			Pound	16,120



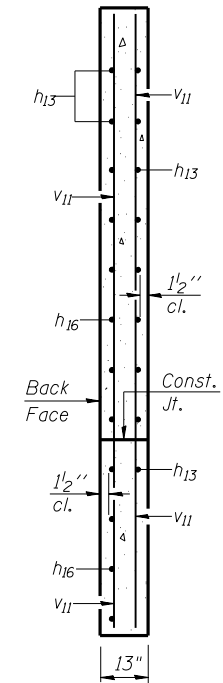
**SECTION THRU HEADWALL**  
(Down Stream End Only)



**CONNECTION DETAIL**



**PLAN SHOWING OUTLINES**

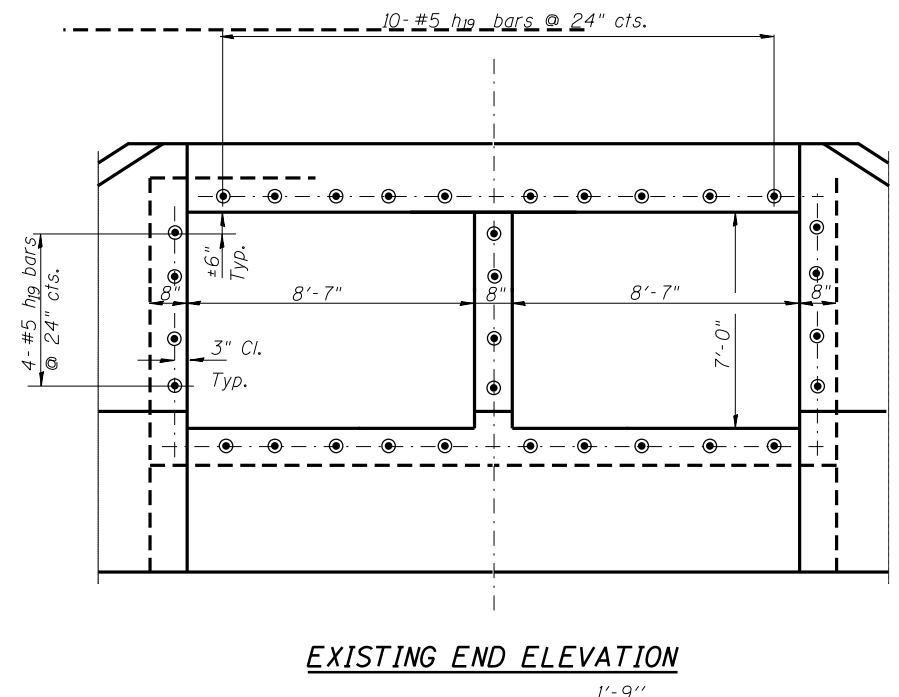
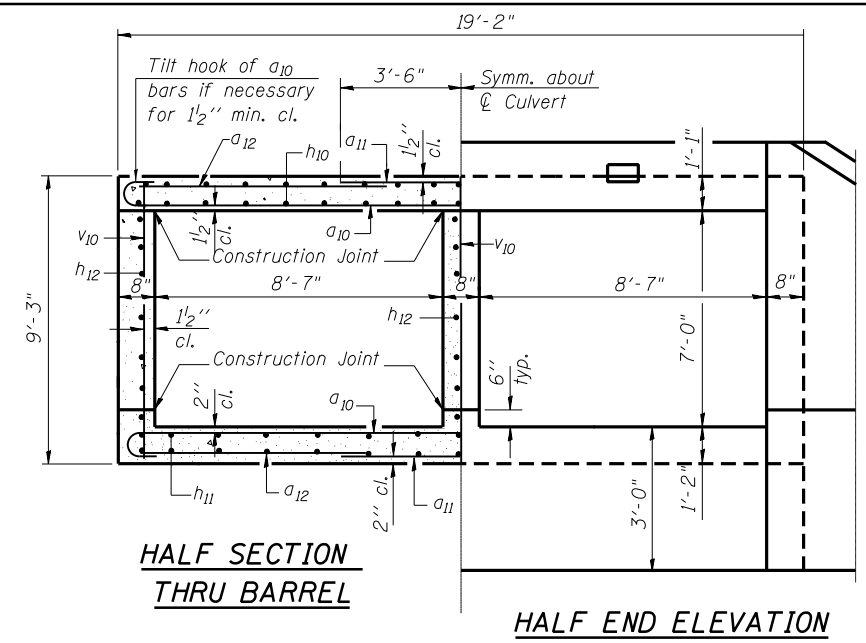
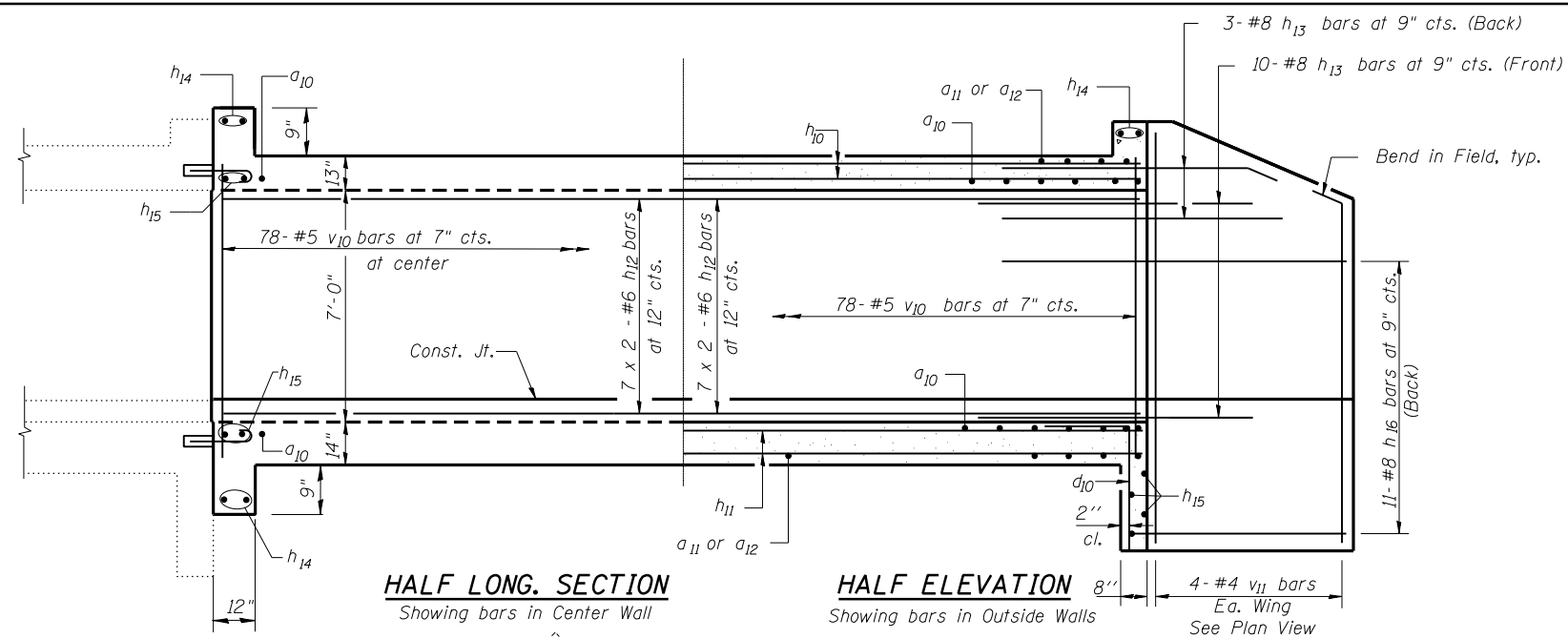


**SECTION A-A**

**DOWNSTREAM DETAILS AND SECTION**  
**S.N. 006-2506**  
**STA. 293+55.08**

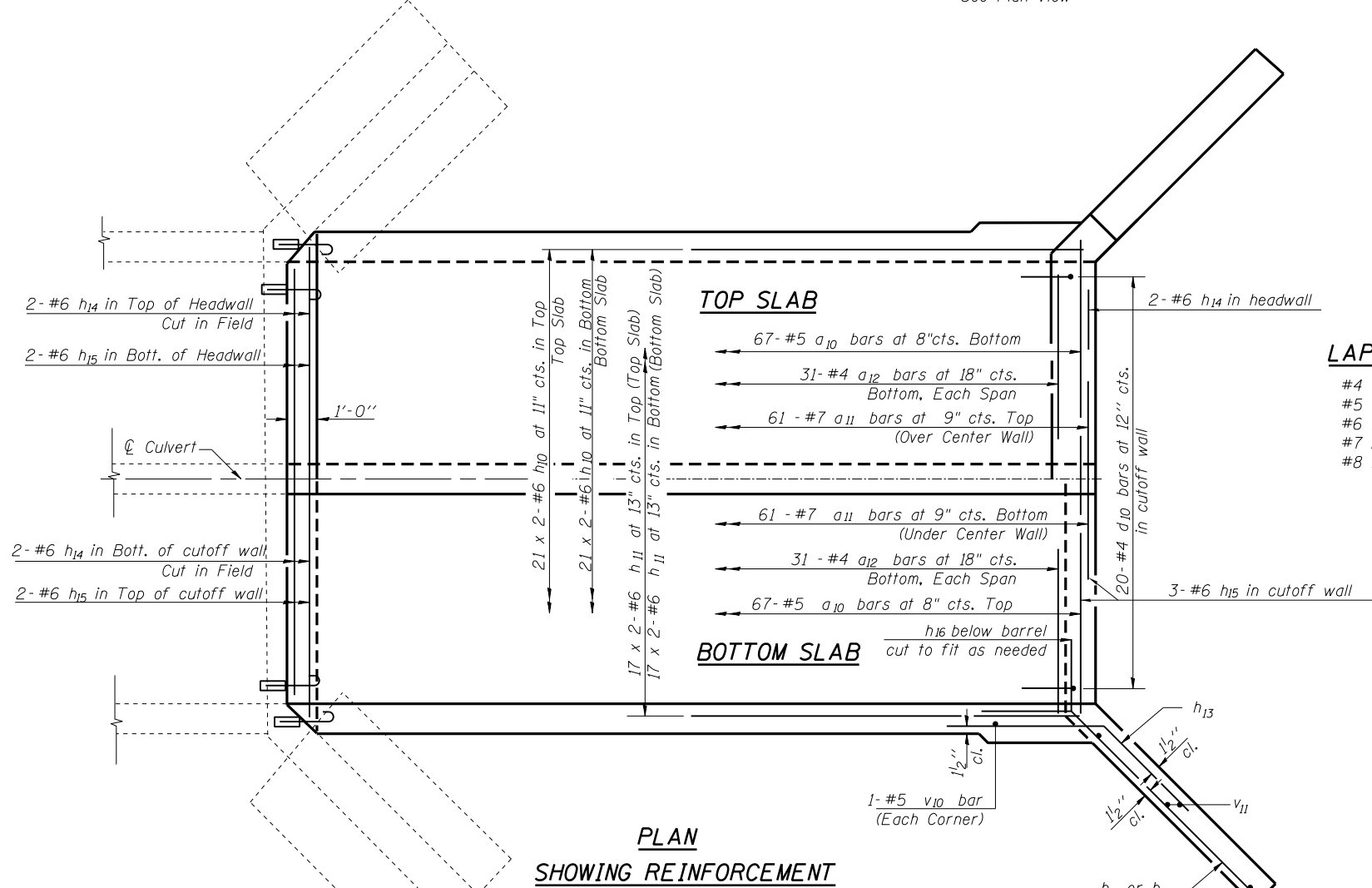
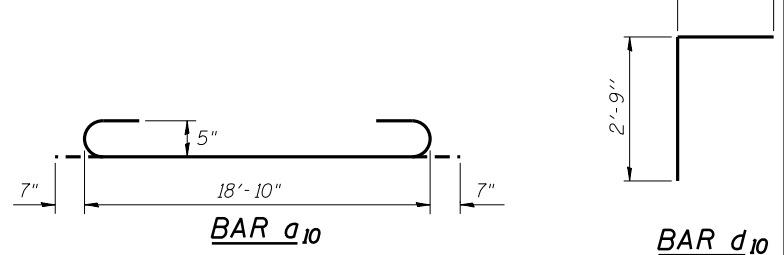
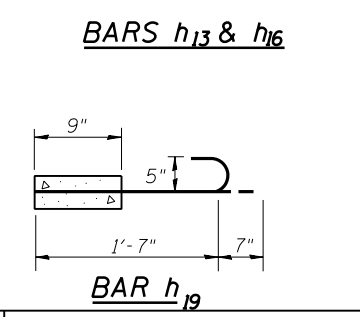
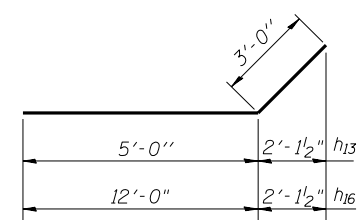
DESIGNED	MHM
CHECKED	JBF
DRAWN	RAP
CHECKED	JBF

SHEET NO. 2 OF 5 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	316	(116) R,T	BUREAU	212	142
FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 66901		



**LAP LENGTH**

#4 Bar	1'-4"
#5 Bar	1'-8"
#6 Bar	2'-0"
#7 Bar	2'-9"
#8 Bar	3'-8"



DESIGNED	MFM
CHECKED	JBF
DRAWN	RAP
CHECKED	JBF

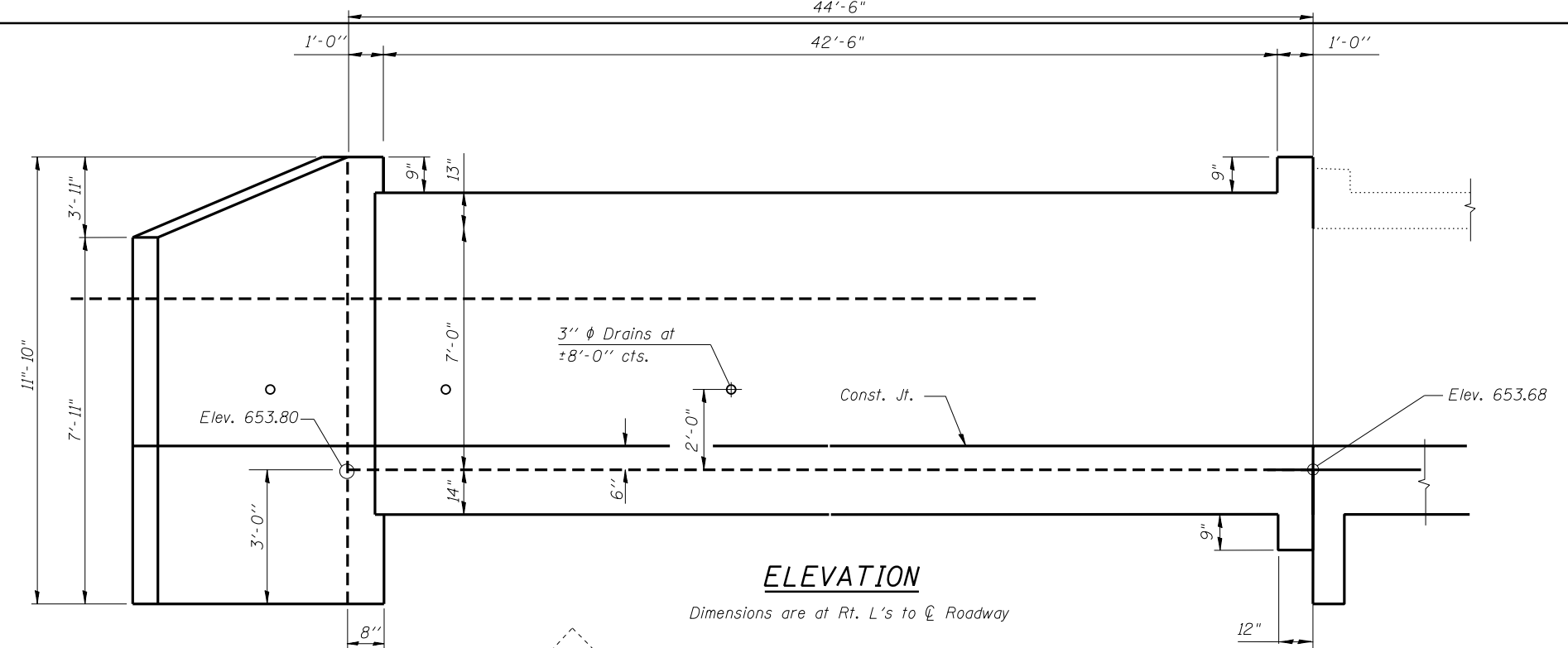
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PLOT SCALE = 20.0000' / in.		CHECKED -	REVISED -
PLOT DATE = 1/13/2015		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(116) R,T	BUREAU	212	143
			CONTRACT NO. 66901	
ILLINOIS FED. AID PROJECT				

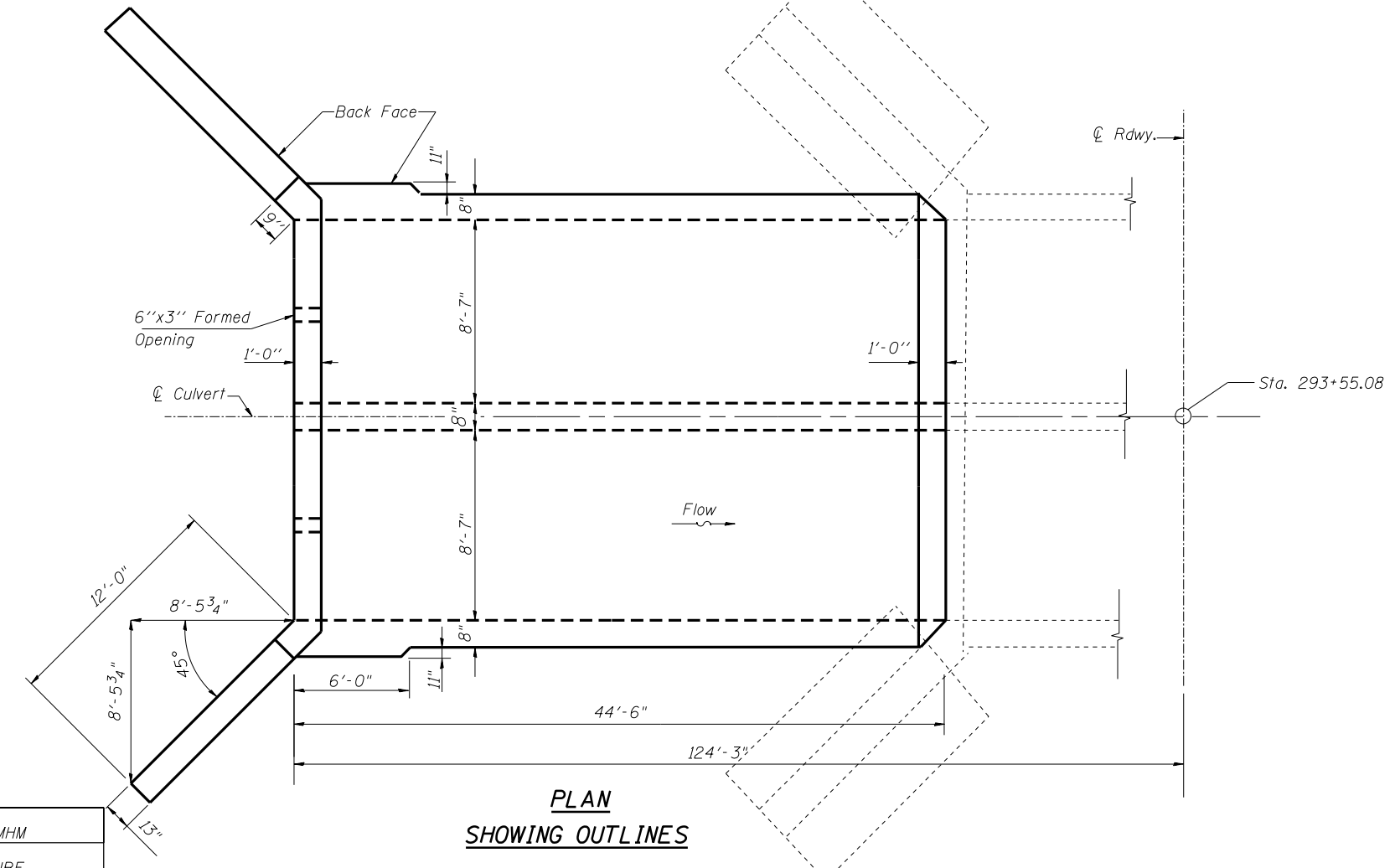
DOWNSTREAM DETAILS AND SECTION  
S.N. 006-2506  
STA. 293+55.08



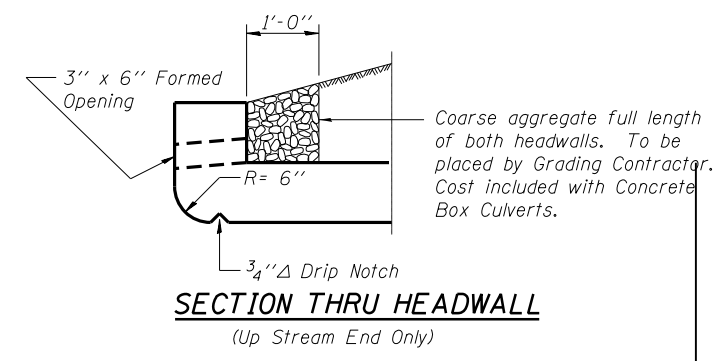
**ELEVATION**  
Dimensions are at Rt. L's to  $\phi$  Roadway

**BILL OF MATERIAL**

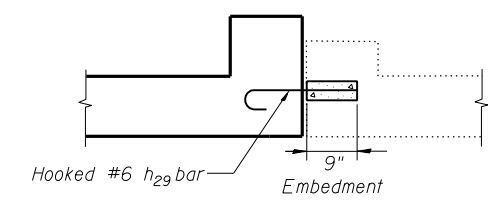
Bar	No.	Size	Length	Shape
a <sub>20</sub>	132	#5	20'-0"	
a <sub>21</sub>	120	#7	7'-0"	
a <sub>22</sub>	120	#4	7'-1"	
d <sub>20</sub>	20	#4	4'-6"	
h <sub>20</sub>	84	#6	23'-1"	
h <sub>21</sub>	68	#6	23'-1"	
h <sub>22</sub>	42	#6	23'-1"	
h <sub>23</sub>	26	#8	8'-0"	
h <sub>24</sub>	6	#6	18'-10"	
h <sub>25</sub>		#6	18'-10"	
h <sub>26</sub>		#8	15'-0"	
h <sub>29</sub>	32	#5	2'-2"	
v <sub>20</sub>	233	#5	8'-11"	
v <sub>21</sub>	8	#4	11'-6"	
Concrete Box Culverts			Cu. Yd.	107.3
Reinforcement Bars			Pound	15,930



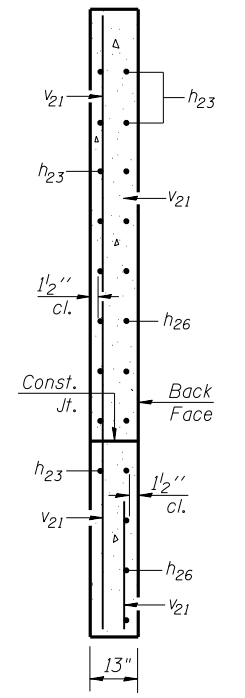
**PLAN**  
SHOWING OUTLINES



**SECTION THRU HEADWALL**  
(Up Stream End Only)



**CONNECTION DETAIL**



**SECTION A-A**  
**UPSTREAM DETAILS AND SECTION**  
**S.N. 006-2506**  
**STA. 293+55.08**

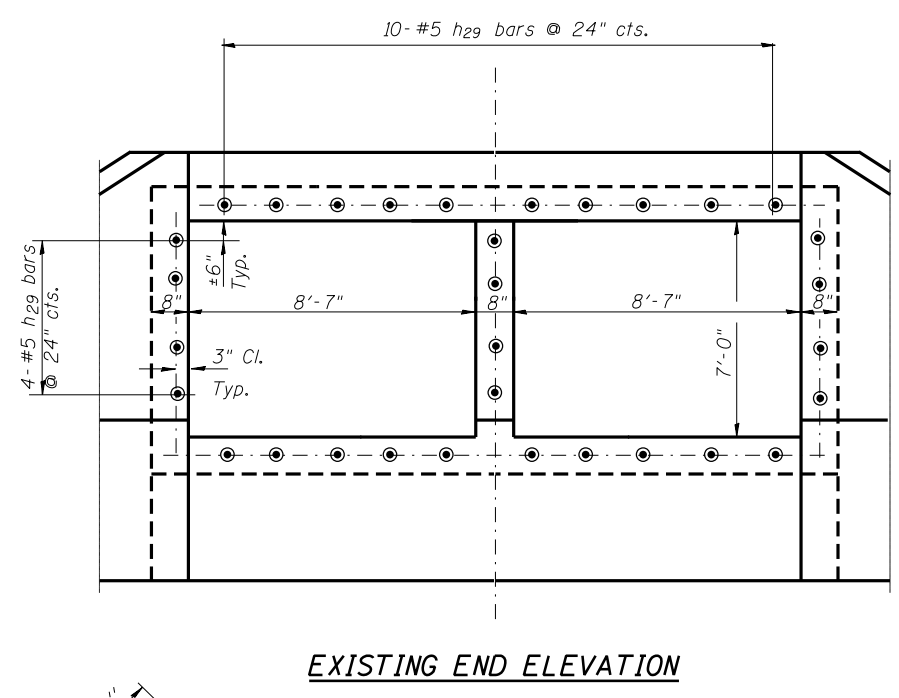
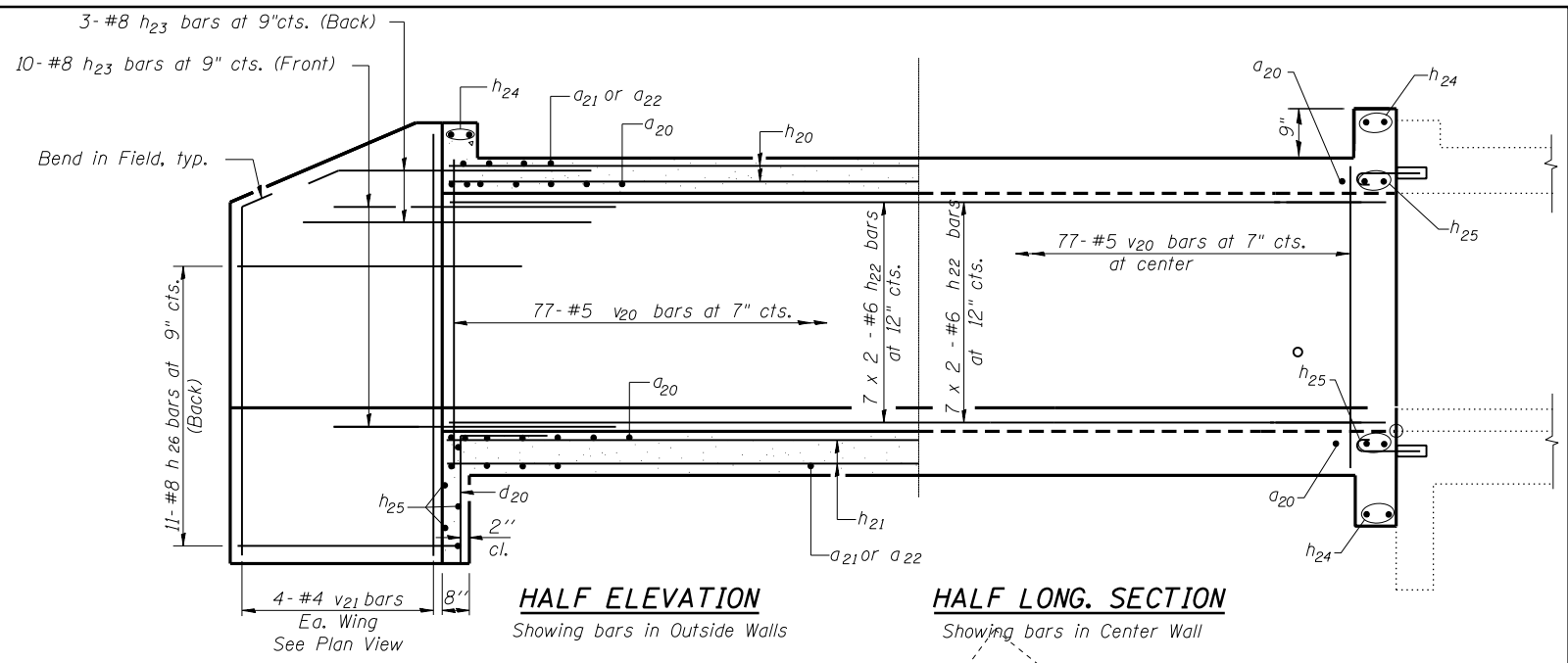
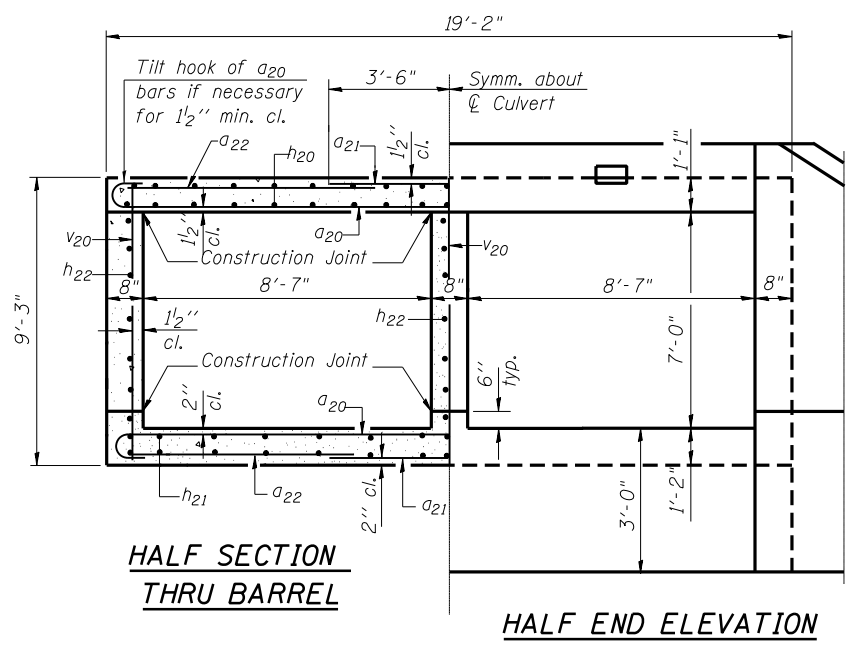
DESIGNED	MHM
CHECKED	JBF
DRAWN	RAP
CHECKED	JBF

FILE NAME =	USER NAME = dominguezm	DESIGNED -	REVISED -
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	PLOT DATE = 1/13/2015	DATE -	REVISED -

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

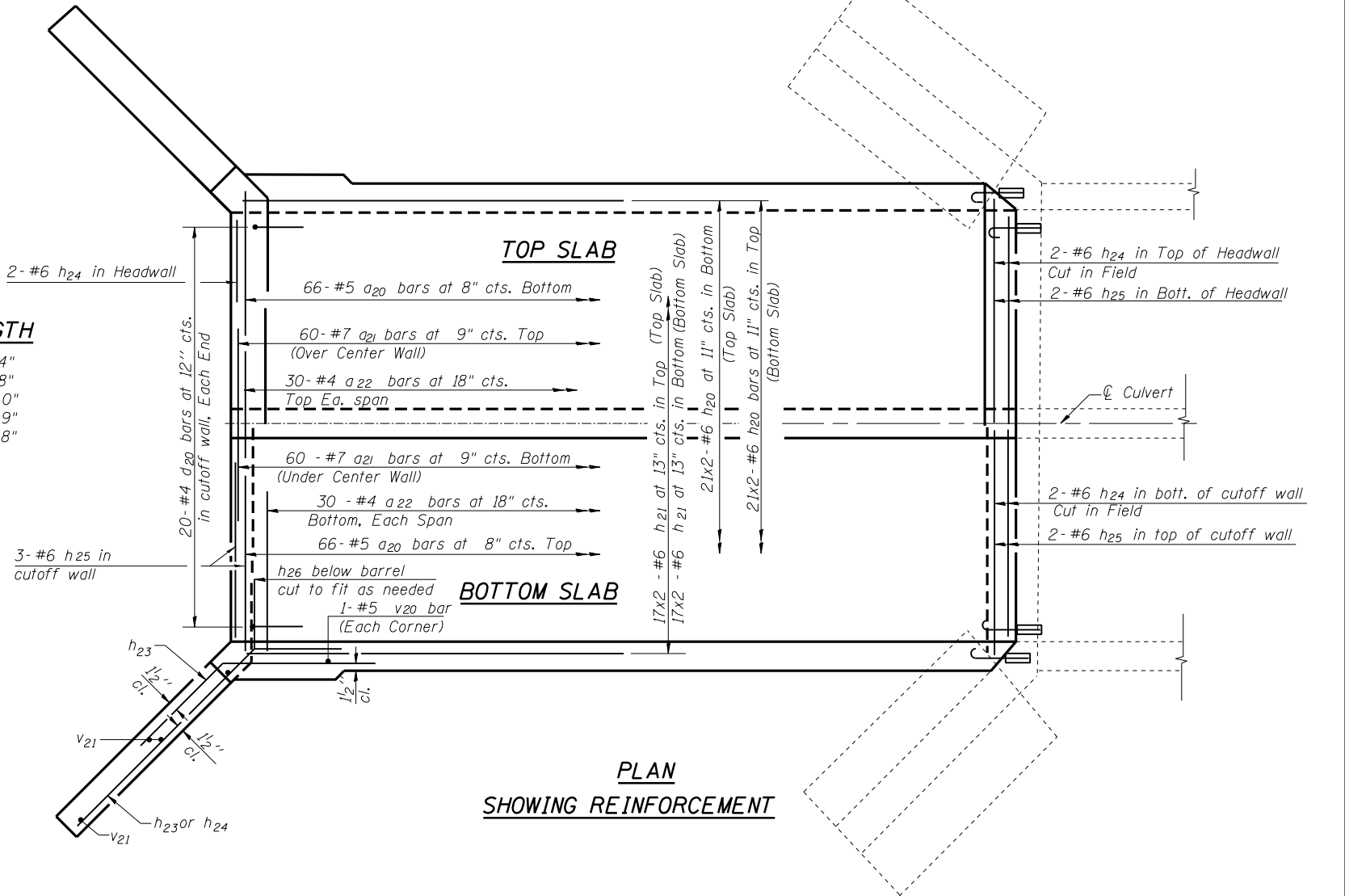
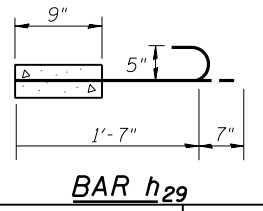
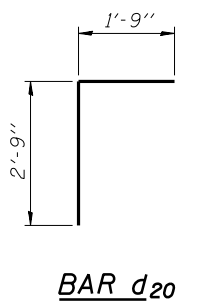
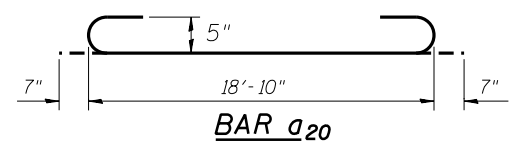
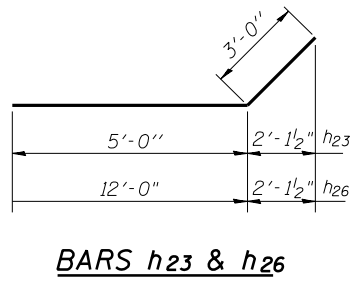
SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(116) R,T	BUREAU	212	144
CONTRACT NO. 66901				
ILLINOIS FED. AID PROJECT				



**LAP LENGTH**

#4 Bar	1'-4"
#5 Bar	1'-8"
#6 Bar	2'-0"
#7 Bar	2'-9"
#8 Bar	3'-8"



DESIGNED	MHM
CHECKED	JBF
DRAWN	RAP
CHECKED	JBF

FILE NAME =	USER NAME = dominguezm	DESIGNED -	REVISED -
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	PLOT DATE = 1/13/2015	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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UPSTREAM DETAILS AND SECTION  
S.N. 006-2506  
STA. 293+55.08

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(116) R,T	BUREAU	212	145
CONTRACT NO. 66901			ILLINOIS FED. AID PROJECT	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**GENERAL NOTES**

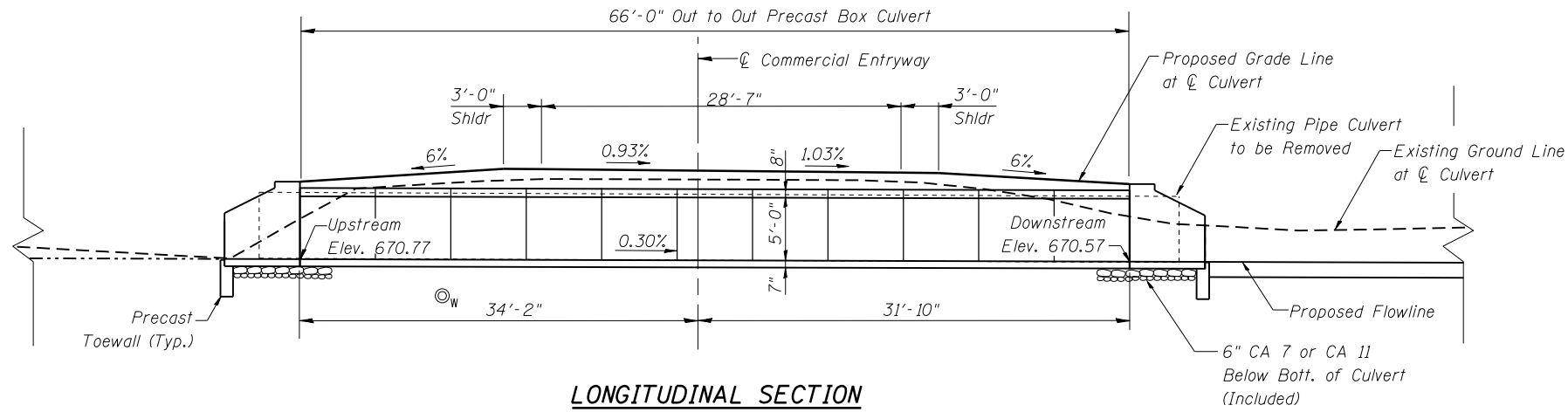
Cost of Structure Excavation Shall be Included in "Precast Concrete Box Culvert, Culvert No. 1".

Cost of Precast Headwall and Apron Sections Shall be Included in "Box Culvert End Sections, Culvert No. 1"

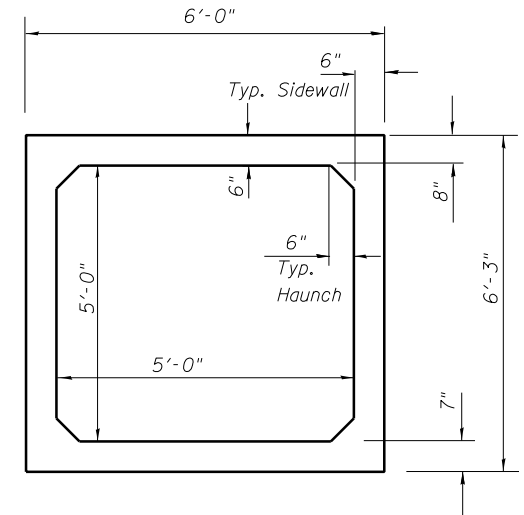
Cost of Precast Toewalls Beneath Precast Apron Sections Shall be Included in "Box Culvert End Sections, Culvert No. 1"

For Backfilling and Embankment, See Standard Specifications.

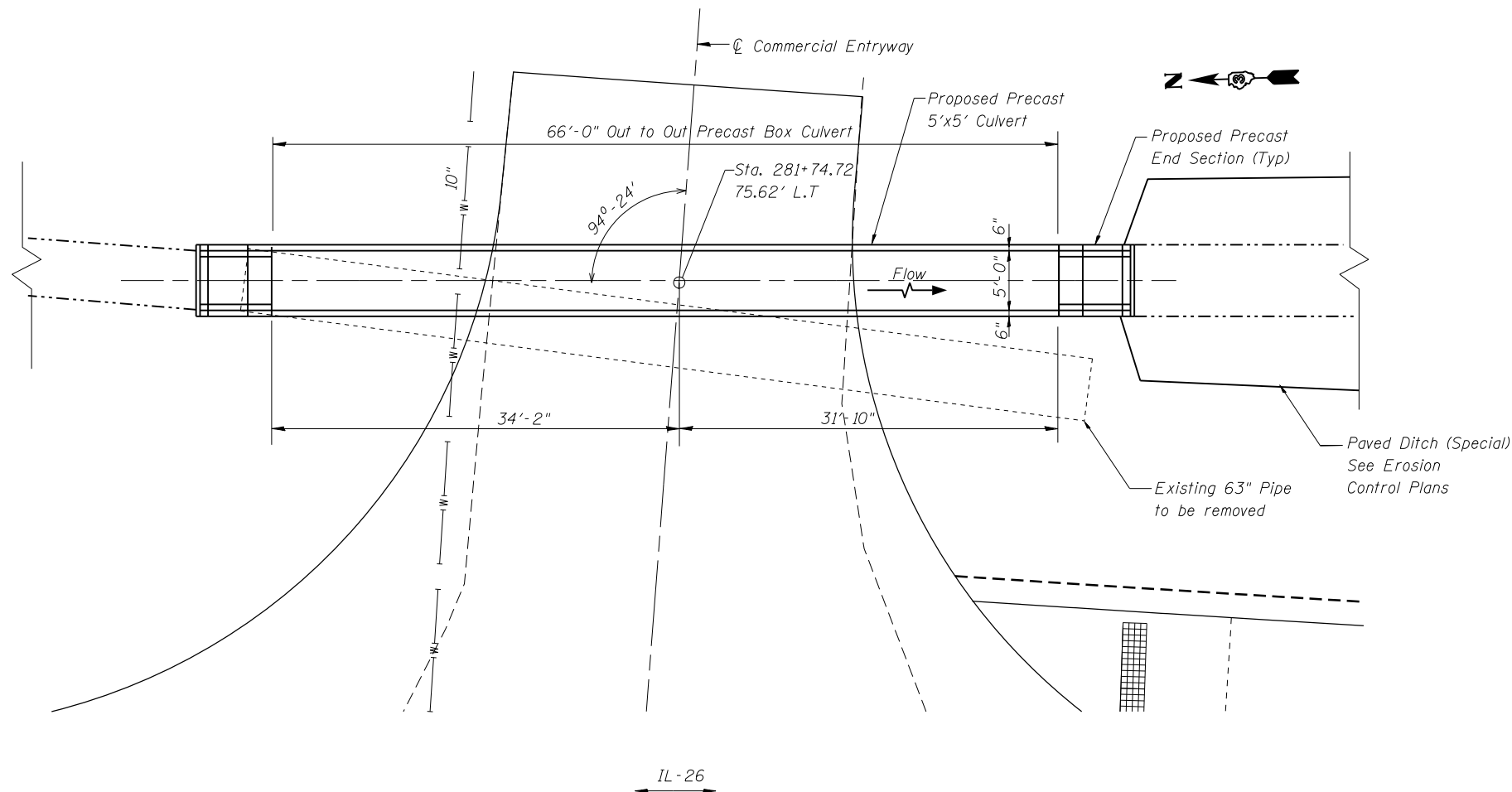
The Precast Concrete Box Culvert Shall Conform to the Requirements of AASHTO M273.



**LONGITUDINAL SECTION**



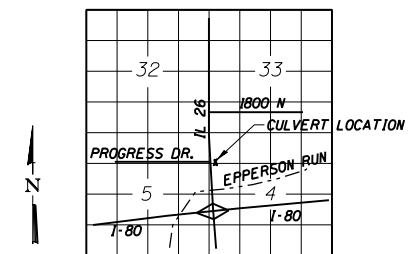
**SECTION THRU PRECAST BARREL**



**PLAN**

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Precast Concrete Box Culvert 5'x5' (M273)	Foot	66
Box Culvert End Sections, Culvert No. 1	Each	2

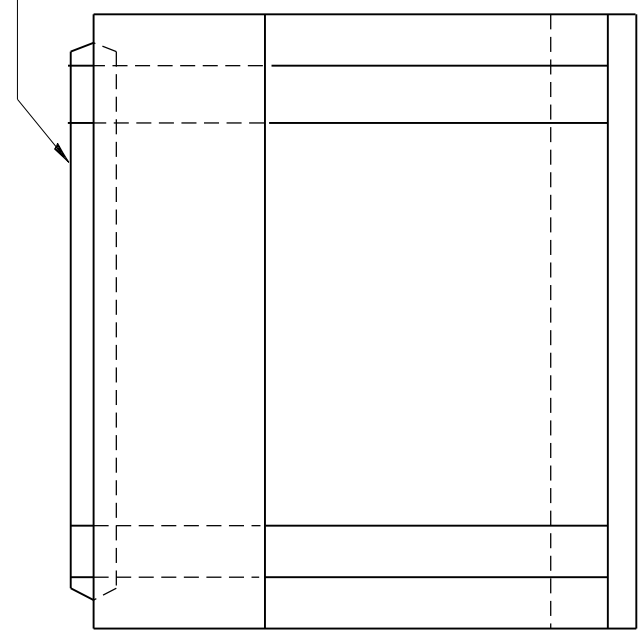
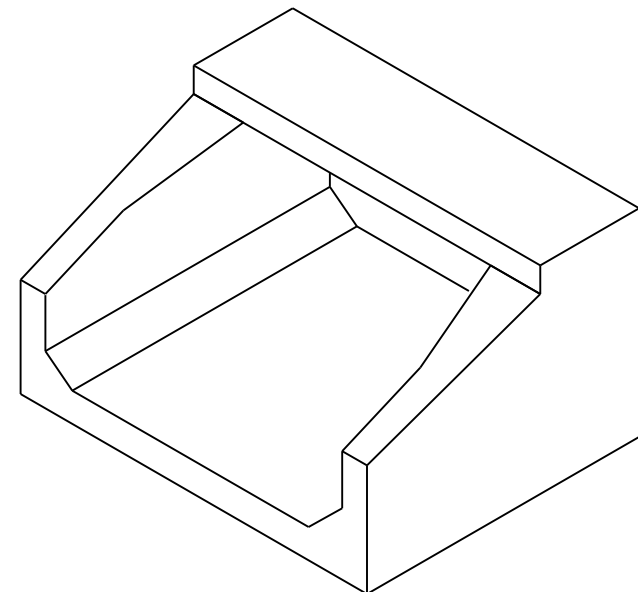
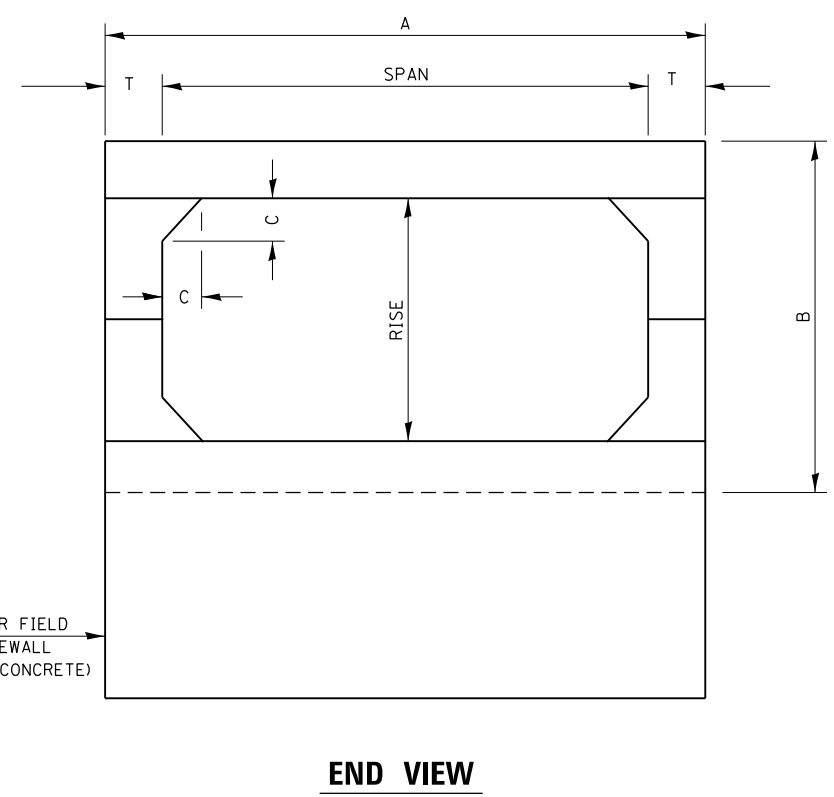
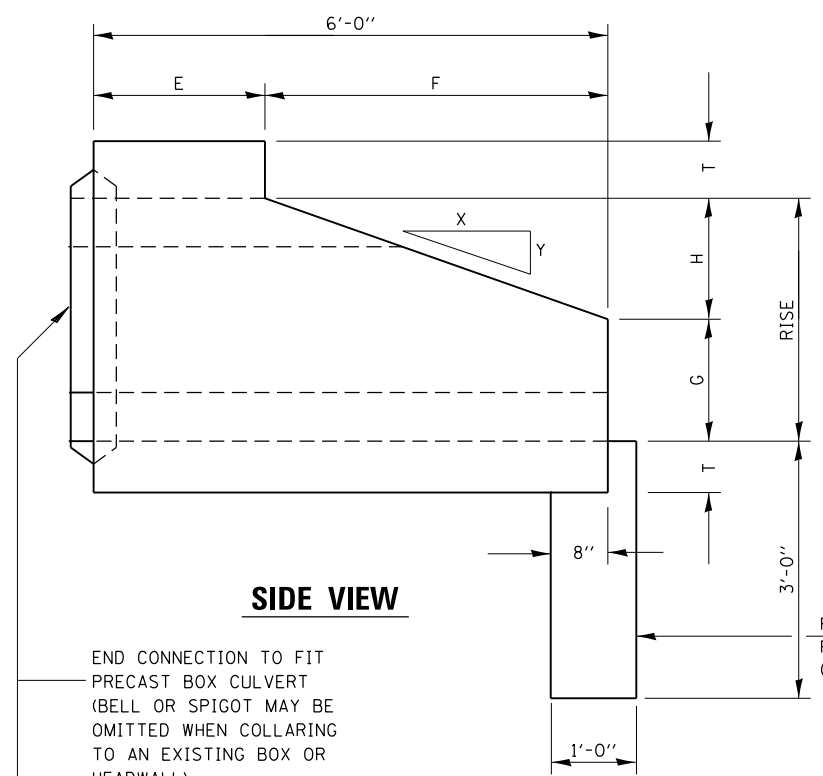


**LOCATION SKETCH**

**GENERAL PLAN  
COMMERCIAL ENTRANCE  
OVER DRAINAGE DITCH  
BUREAU COUNTY  
STATION 281+74.72**

DESIGNED	MHM
CHECKED	JBF
DRAWN	RAP
CHECKED	JBF

SHEET NO. 1 OF 2 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	316	(116) R,T	BUREAU	212	146
FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 66901					



**PLAN**

**END VIEW**

**ISOMETRIC VIEW**

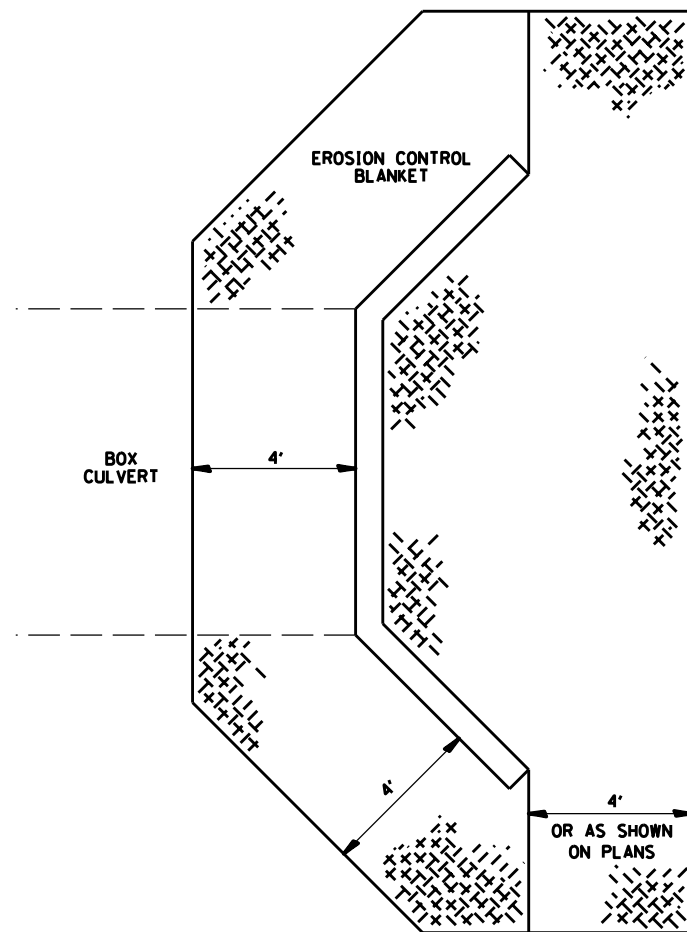
SPAN X RISE	T (INCHES)	A (FT.-IN.)	B (FT.-IN.)	C (INCHES)	E (FT.-IN.)	F (FT.-IN.)	G (FT.-IN.)	H (FT.-IN.)	SLOPE
2' X 2'	4	2 - 8	2 - 8	4	3 - 0	3 - 0	1 - 0	1 - 0	3 : 1
3' X 2'	4	3 - 8	2 - 8	4	3 - 0	3 - 0	1 - 0	1 - 0	3 : 1
3' X 3'	4	3 - 8	3 - 8	4	2 - 0	4 - 0	1 - 8	1 - 4	3 : 1
4' X 2'	5	4 - 10	2 - 10	5	3 - 0	3 - 0	1 - 0	1 - 0	3 : 1
4' X 3'	5	4 - 10	3 - 10	5	2 - 0	4 - 0	1 - 8	1 - 4	3 : 1
4' X 4'	5	4 - 10	4 - 10	5	2 - 0	4 - 0	2 - 0	2 - 0	2 : 1
5' X 2'	6	6 - 0	3 - 0	6	3 - 0	3 - 0	1 - 0	1 - 0	3 : 1
5' X 3'	6	6 - 0	4 - 0	6	2 - 0	4 - 0	1 - 8	1 - 4	3 : 1
5' X 4'	6	6 - 0	5 - 0	6	2 - 0	4 - 0	2 - 0	2 - 0	2 : 1
5' X 5'	6	6 - 0	6 - 0	6		4 - 0	3 - 0	2 - 0	2 : 1
6' X 2'	7	7 - 2	3 - 2	7	3 - 0	3 - 0	1 - 0	1 - 0	3 : 1
6' X 3'	7	7 - 2	4 - 2	7	2 - 0	4 - 0	1 - 8	1 - 4	3 : 1
6' X 4'	7	7 - 2	5 - 2	7	2 - 0	4 - 0	2 - 0	2 - 0	2 : 1
6' X 5'	7	7 - 2	6 - 2	7		4 - 0	3 - 0	2 - 0	2 : 1
7' X 3'	8	8 - 4	4 - 4	8		4 - 0	1 - 8	1 - 4	3 : 1
7' X 4'	8	8 - 4	5 - 4	8		4 - 0	2 - 0	2 - 0	2 : 1
7' X 5'	8	8 - 4	6 - 4	8		4 - 0	3 - 0	2 - 0	2 : 1
8' X 3'	8	9 - 4	4 - 4	8		4 - 0	1 - 8	1 - 4	3 : 1
8' X 4'	8	9 - 4	5 - 4	8		4 - 0	2 - 0	2 - 0	2 : 1
8' X 5'	8	9 - 4	6 - 4	8		4 - 0	3 - 0	2 - 0	2 : 1
9' X 3'	9	10 - 6	4 - 6	9		4 - 0	1 - 8	1 - 4	3 : 1
9' X 4'	9	10 - 6	5 - 6	9		4 - 0	2 - 0	2 - 0	2 : 1
9' X 5'	9	10 - 6	6 - 6	9		4 - 0	3 - 0	2 - 0	2 : 1
10' X 4'	10	11 - 8	5 - 9	10		4 - 0	2 - 0	2 - 0	2 : 1
10' X 5'	10	11 - 8	6 - 8	10		4 - 0	3 - 0	2 - 0	2 : 1

DESIGNED	MHM
CHECKED	JBF
DRAWN	PAR
CHECKED	JBF

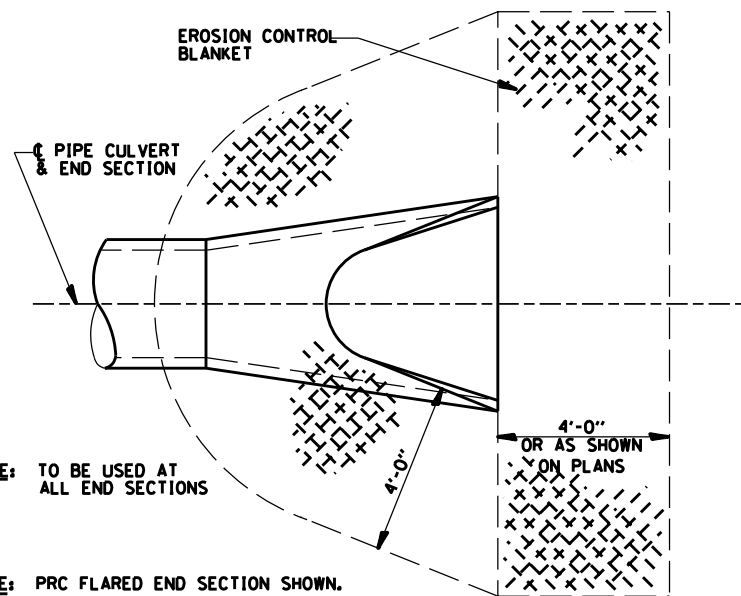
**PRECAST BOX CULVERT END SECTION**

**540-16**

SHEET NO. 2 OF 2 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	316	(116) R,T	BUREAU	212	147
CONTRACT NO. 66901			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		



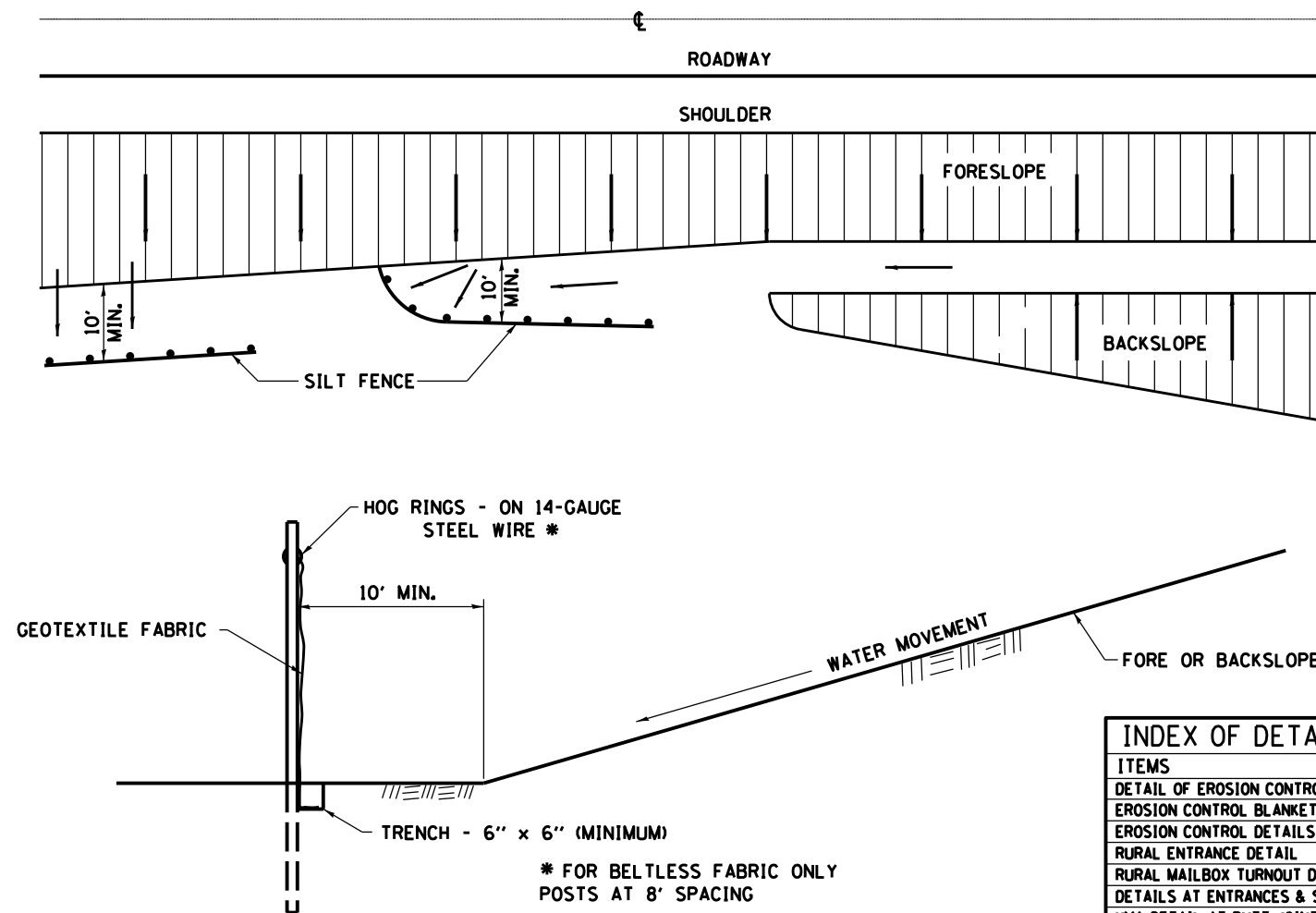
**EROSION CONTROL BLANKET  
AT BOX CULVERT END SECTIONS 251-3  
(MOD)**



NOTE: TO BE USED AT ALL END SECTIONS

NOTE: PRC FLARED END SECTION SHOWN. TREATMENT SAME FOR OTHER END SECTIONS.

**DETAIL OF EROSION CONTROL BLANKET  
LINING AROUND END SECTION 251-2  
(MOD)**



**DETAILS OF SILT FENCE**

**EROSION CONTROL DETAILS  
FOR SILT FENCE**

ITEMS	STANDARD	SHEETS
DETAIL OF EROSION CONTROL BLANKET LINING AROUND END SECTION	251-2	139
EROSION CONTROL BLANKET AT BOX CULVERT END SECTIONS	251-3	139
EROSION CONTROL DETAILS FOR SILT FENCE	280-1	139
RURAL ENTRANCE DETAIL	402-1	140
RURAL MAILBOX TURNOUT DETAILS	406-1	141
DETAILS AT ENTRANCES & SIDE ROADS	406-2	141
HMA DETAIL AT BUTT JOINTS	406-8	140
HMA SURFACE REMOVAL AT BUTT JOINTS	406-11	141
PCC URBAN ENTRANCES	423-1	142
PERPENDICULAR CURB RAMPS FOR SIDEWALKS	424-06	144
PC CONCRETE ISLANDS AND MEDIANS WITH SIDEWALK	424-28	145
ADA SIDEWALK ACCESSIBILITY RAMP DETAIL	424-29	143
REMOVAL OF EXISTING HMA SHOULDER	440-1	140
PRECAST BOX CULVERT END SECTION	540-16	138
PLAN AT CULVERT EXTENSIONS	542-13	146
PRECAST REINFORCED CONCRETE ARCH DIAMETER FLARED END SECTION	542-13	149
TYPICAL HYDRANT INSTALLATION	561-1	146
TYPICAL VALVE BOX INSTALLATION	561-3	146
WATERMAIN INSTALLATION REQUIREMENTS	561-4	146
TYPICAL THRUST BLOCK INSTALLATIONS	561-5	146
WATER AND SEWER SEPARATION REQUIREMENTS-HORIZONTAL SEPARATION	563-3	152
SEWER AND WATER MAIN CROSSINGS	563-4	147
FOR INLET TYPE A	602-1	149
FULL DEPTH CONCRETE ISLAND	606-1	151
ISLAND SIGN POST SPACING DETAIL	606-2	151
TRAFFIC CONTROL AND PROTECTION AT TURN BAYS	701-7	153
BUSINESS ABUTTING WORK ZONE ENTRANCE SIGN	701-9	154
SHORT-TERM PAVEMENT MARKING FOR MEDIANS AND ARROWS	703-1	153
TYPICAL APPLICATION FOR TWO WAY LEFT TURN LANE (TWLTL)	780-2	155
TYPICAL SPACING DETAIL FOR CROSSWALKS AND STOP BARS	780-3	155
PAVEMENT MARKING	780-8	155
TYPICAL ISLAND	780-21	154
PRISMATIC REFLECTORS	782-2	155
WATER MAIN INSULATION		146
TYPICAL SANITARY MANHOLE "A"		148
FLEXIBLE PIPE INSTALLATION DETAIL		148
PIPE HANDRAIL DETAIL		150
LAND SECTION MARKER		150
GRATED INLET SPECIAL		151
PIPE DRAIN DETAIL		151
W-BEAM END SECTION		151
CURB AND GUTTER TRANSITION		152
SPECIAL GRADING AND RIPRAP AT 8'-7" x 7' DOUBLE RCB CULVERT EXTENSION		156

280-1

FILE NAME = 003306-SHT-DETAILS.DGN

USER NAME = RAMIREZ, P  
PLOT SCALE = 1"=1'  
PLOT DATE = DECEMBER 2011

DESIGNED - JOHNSON, B  
DRAWN - RAMIREZ, P  
CHECKED - JOHNSON, B  
DATE - DECEMBER 2011

REVISED -  
REVISED -  
REVISED -  
REVISED -

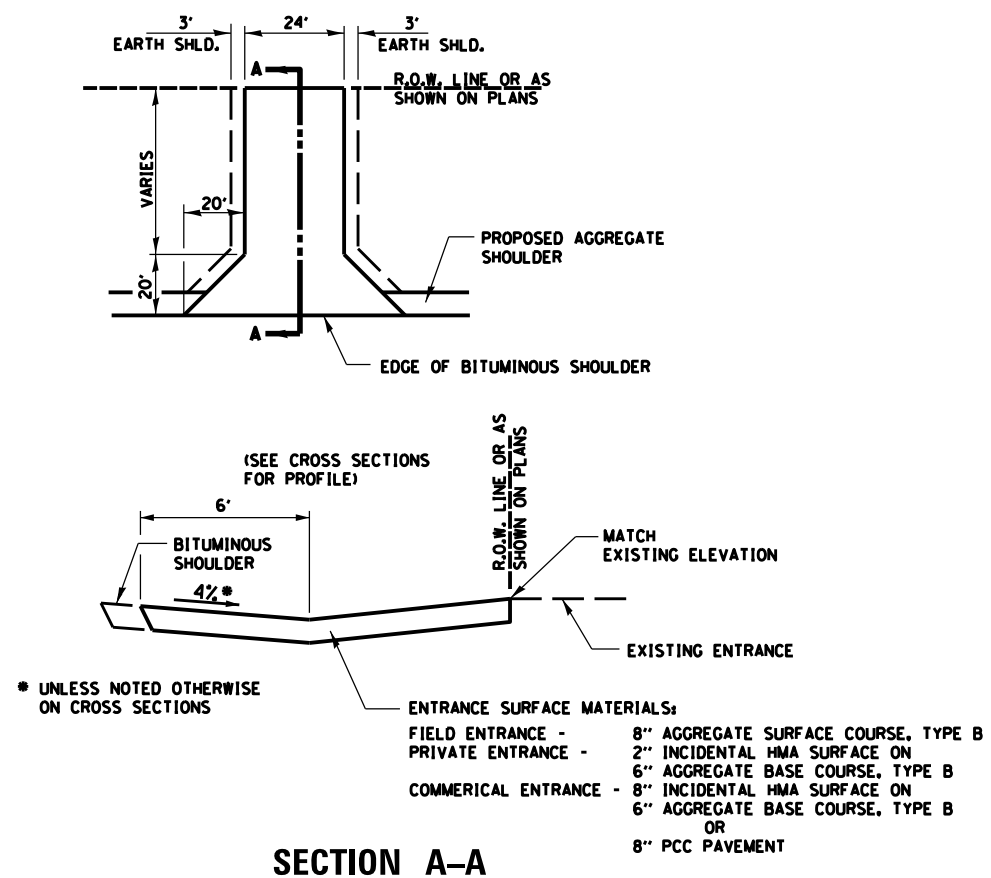
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DETAIL DRAWINGS SHEETS

SCALE: SHEET NO. 1 OF 18 SHEETS STA. 1625+49.62 TO STA. 295+14.27

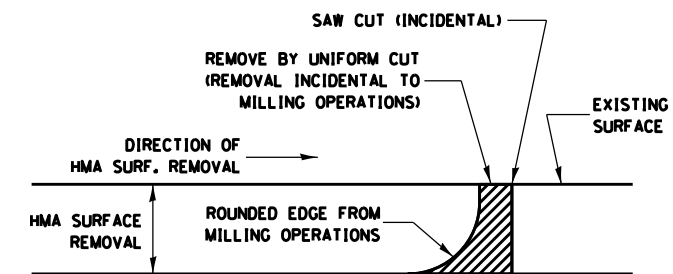
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(116) R,T	BUREAU	221	148
CONTRACT NO. 66901				
ILLINOIS FED. AID PROJECT				





**RURAL ENTRANCE DETAIL**

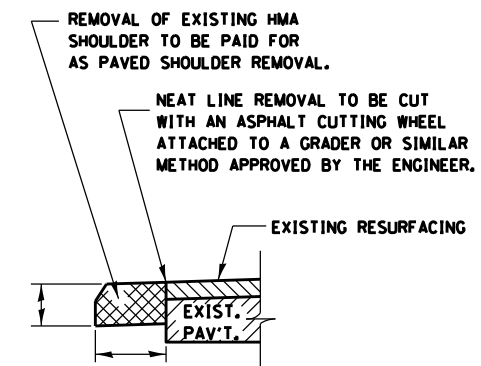
402-1  
(MOD)



**NOTE:**  
 WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL

**HMA DETAIL AT BUTT JOINTS**

406-8

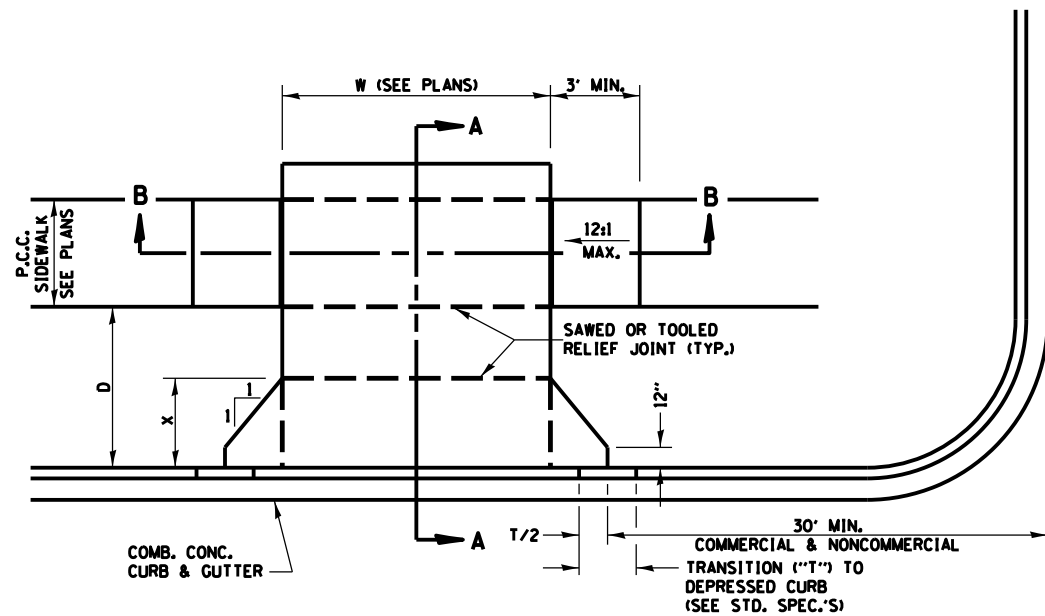


**REMOVAL OF EXISTING HMA SHOULDER**

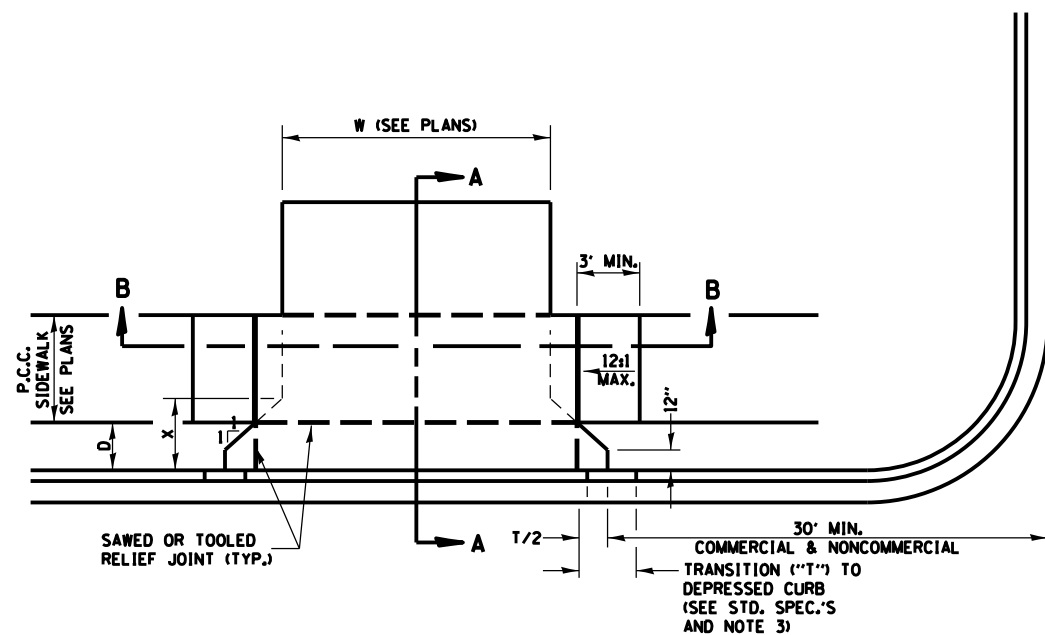
440-1

FILE NAME = D03306-SHT-DETAILS.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL DRAWINGS SHEETS			F.A.P. RTE. 316	SECTION (116) R,T	COUNTY BUREAU	TOTAL SHEETS 221	SHEET NO. 149
	PLOT SCALE = 1"=1'	DRAWN - RAMIREZ, P	REVISED -		SCALE:	SHEET NO. 2 OF 18 SHEETS	STA. 1625+49.62 TO STA. 295+14.27	CONTRACT NO. 66901				
	PLOT DATE = DECEMBER 2011	CHECKED - JOHNSON, B	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE - DECEMBER 2011	REVISED -									





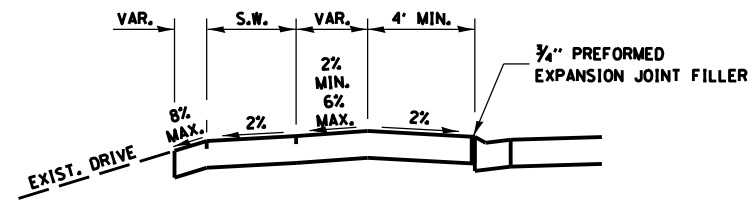
CASE I (D > X)



CASE I (D < X)

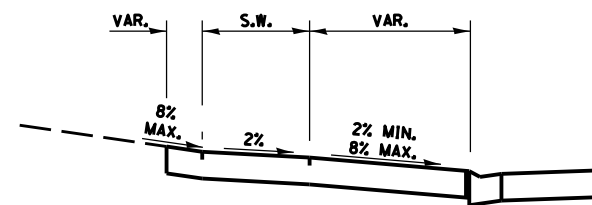
GENERAL NOTES:

1. x = 7' (NON-COMMERCIAL) x = 15' (COMMERCIAL)
2. COST OF EXPANSION JOINTS AND RELIEF JOINTS SHALL BE INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT.
3. AS THE DIMENSION "D" APPROACHES ZERO, THE TRANSITION TO DEPRESSED CURB SHALL BE NO STEEPER THAN 12:1
4. COST OF THICKENING OF SIDEWALK SLABS AND TIE BARS AT DRIVEWAYS SHALL BE INCLUDED IN THE COST OF THE P.C.C. SIDEWALK

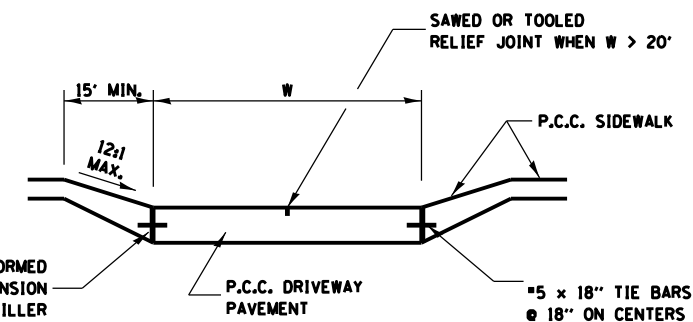


DEPRESSED ENTRANCE \*  
SECTION A-A

\*(SEE X-SECTIONS FOR ENTRANCE PROFILE.)

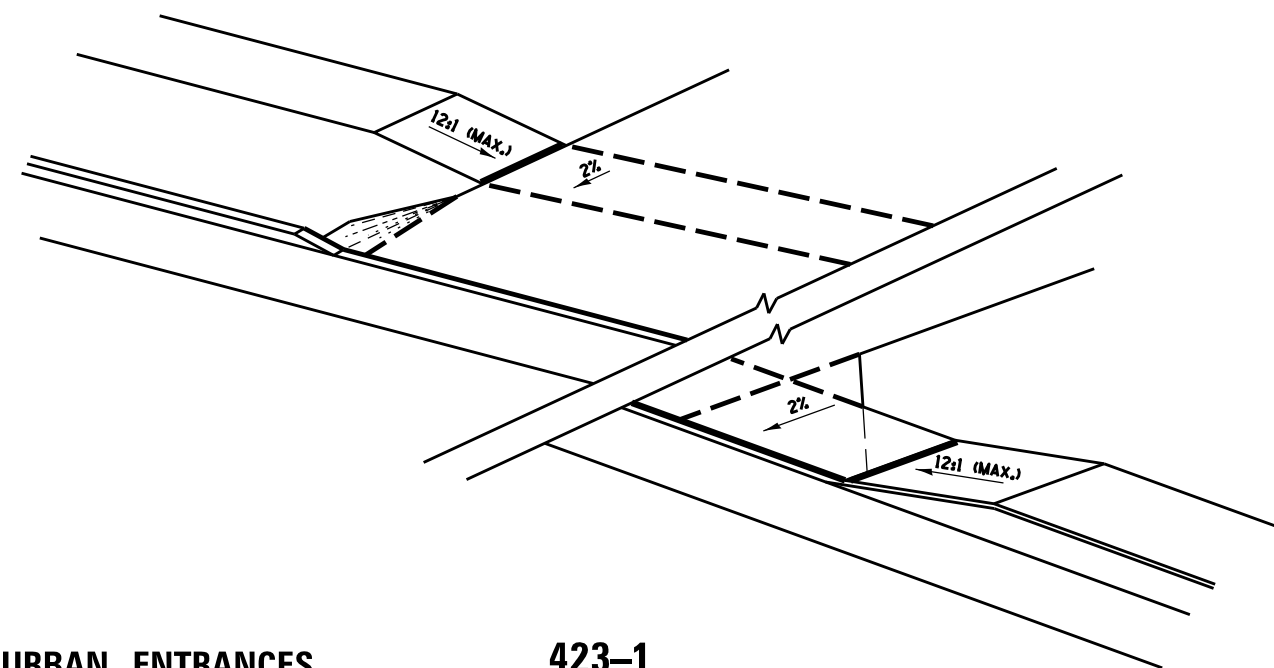


ELEVATED ENTRANCE  
SECTION A-A



SECTION B-B

THICKEN SIDEWALK APPROACH TO MATCH DRIVEWAY PAVEMENT THICKNESS



PCC URBAN ENTRANCES

423-1  
(MOD)

FILE NAME = D03306-SHT-DETAILS.DGN

USER NAME = RAMIREZ, P

DESIGNED - JOHNSON, B

REVISED -

DRAWN - RAMIREZ, P

REVISED -

CHECKED - JOHNSON, B

REVISED -

DATE - DECEMBER 2011

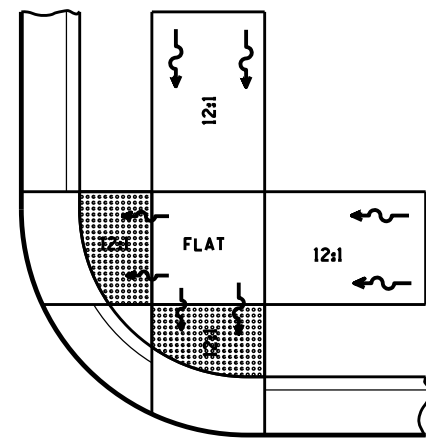
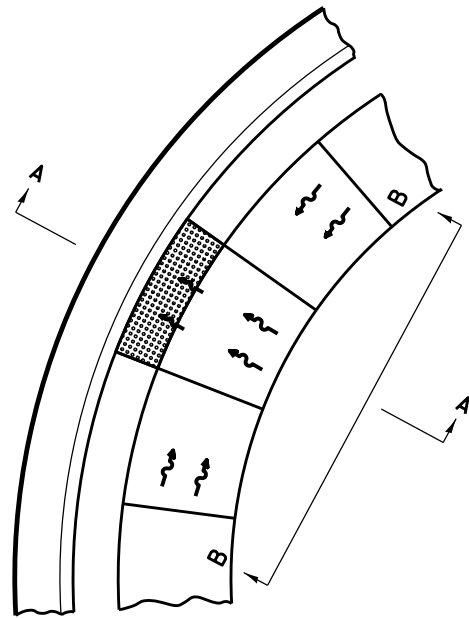
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DETAIL DRAWINGS SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(116) R,T	BUREAU	221	151
CONTRACT NO. 66901				
ILLINOIS FED. AID PROJECT				

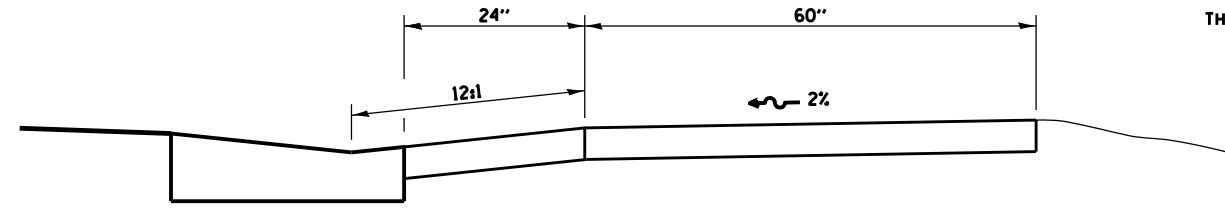
SCALE: SHEET NO. 4 OF 18 SHEETS STA. 1625+49.62 TO STA. 295+14.27



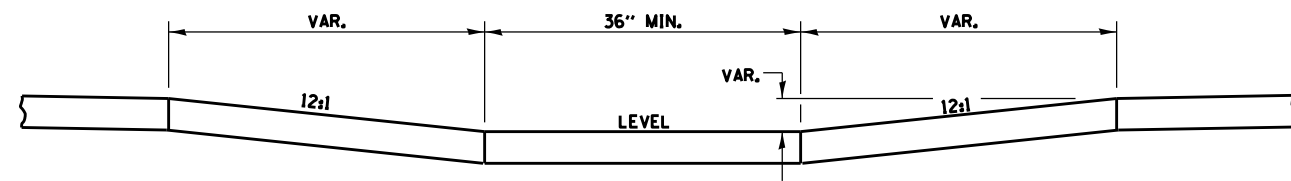
SEE STANDARD 424001 FOR SIDE FLARE  
DETAIL & SEE PLANS FOR RAMP TYPE.

**NOTES:**

- THIS DETAIL TO BE USED IN CONJUNCTION WITH STATE STANDARD 424001.
- THE MAXIMUM ALLOWABLE CROSS SLOPE FOR SIDEWALK IS 2%.
- THE MAXIMUM ALLOWABLE SIDEWALK GRADE IS 8%.
- IF SPACE LIMITATIONS PROHIBIT THE USE OF THE 12:1 SLOPE, THEN SLOPES BETWEEN 10:1 AND 12:1 ARE PERMITTED FOR A MAXIMUM RISE OF 6". SLOPES 8:1 AND 10:1 ARE ALLOWED FOR A MAXIMUM RISE OF 3". SLOPES STEEPER THAN 8:1 ARE NOT PERMITTED.
- THE DEPRESSED CURB IS NOT STANDARD. THE RISE IS 1/2" INSTEAD OF 1 1/2".



SECTION A-A

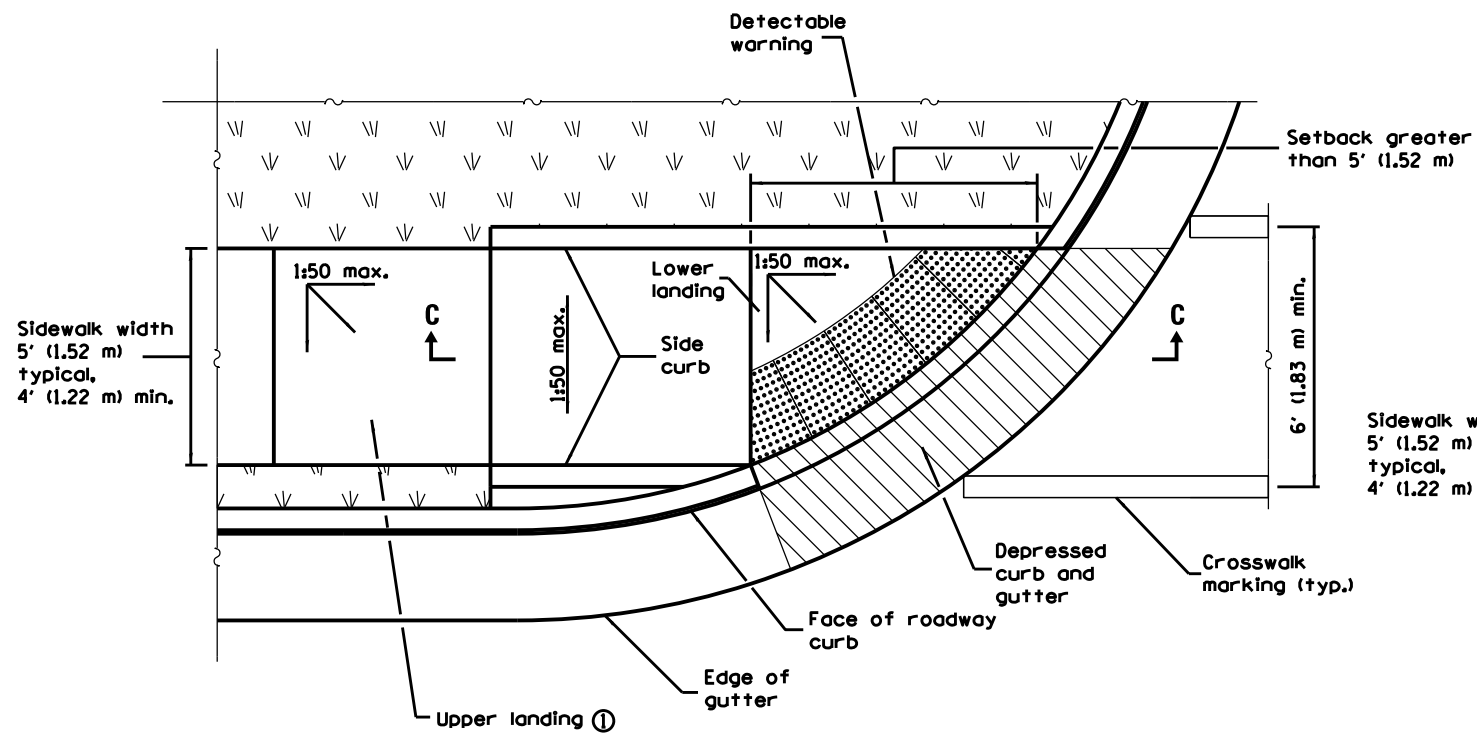


SECTION B-B

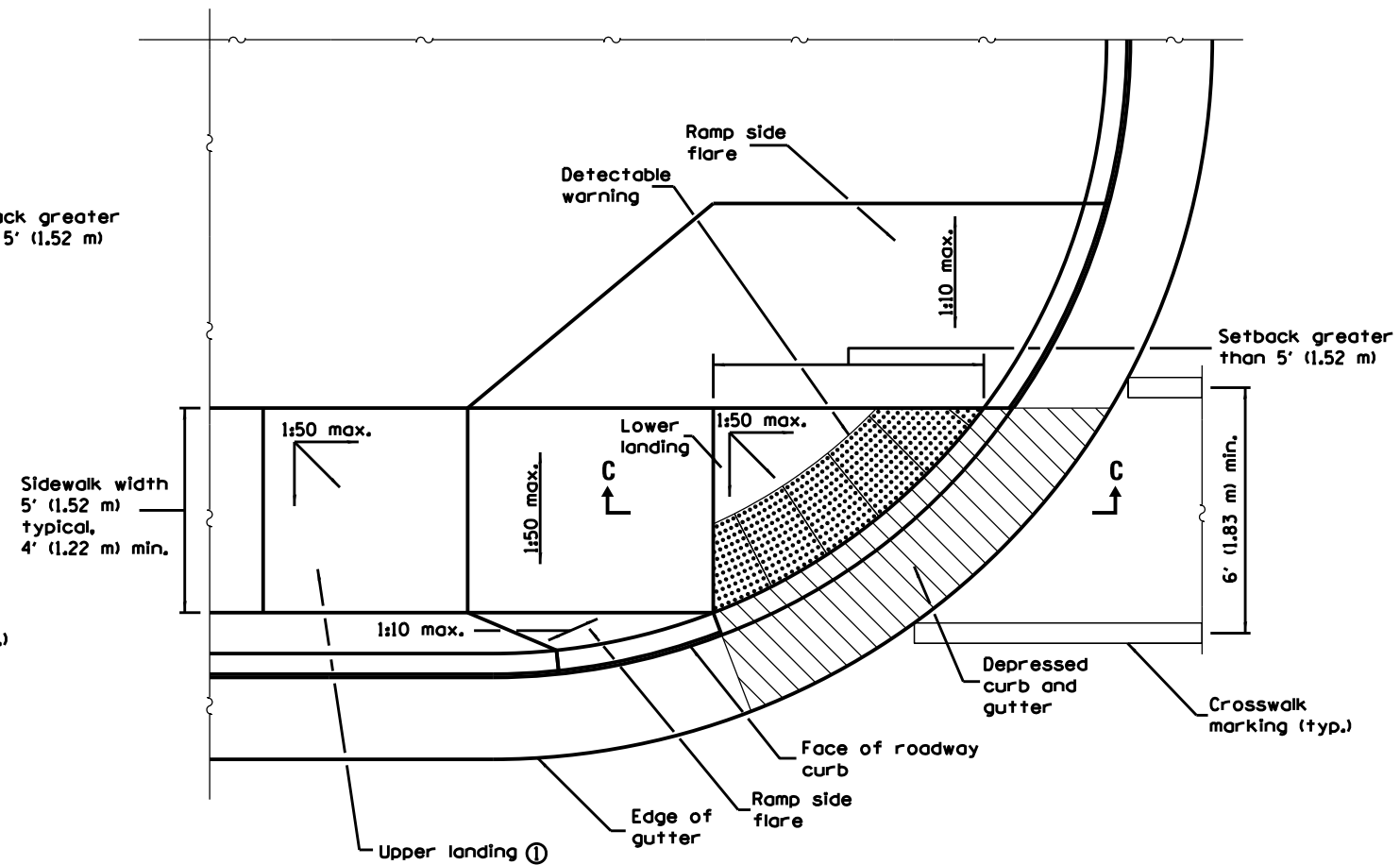
**ADA SIDEWALK ACCESSIBILITY RAMP DETAIL**

**424-29**

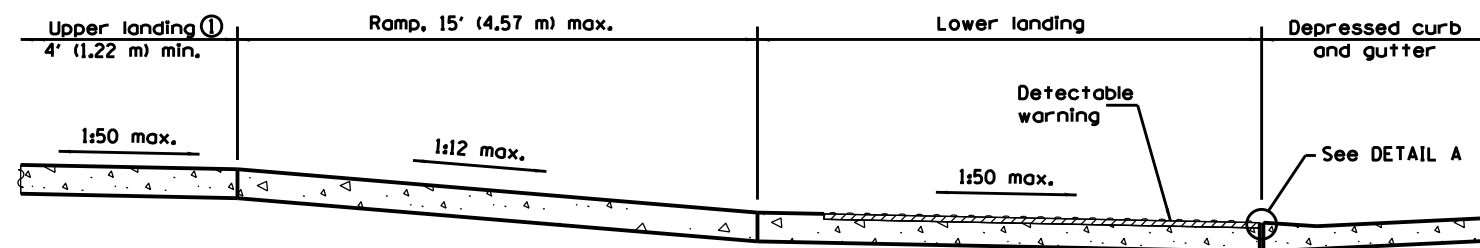
FILE NAME = D03306-SHT-DETAILS.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL DRAWINGS SHEETS			F.A.P. RTE. 316	SECTION (116) R,T	COUNTY BUREAU	TOTAL SHEETS 221	SHEET NO. 152
	PLOT SCALE = 1"=1'	DRAWN - RAMIREZ, P	REVISED -		SCALE:	SHEET NO. 5 OF 18 SHEETS	STA. 1625+49.62 TO STA. 295+14.27	CONTRACT NO. 66901				
	PLOT DATE = DECEMBER 2011	CHECKED - JOHNSON, B	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE - DECEMBER 2011	REVISED -									



**RAMP IN LANDSCAPED AREA**  
**SETBACK > 5'**



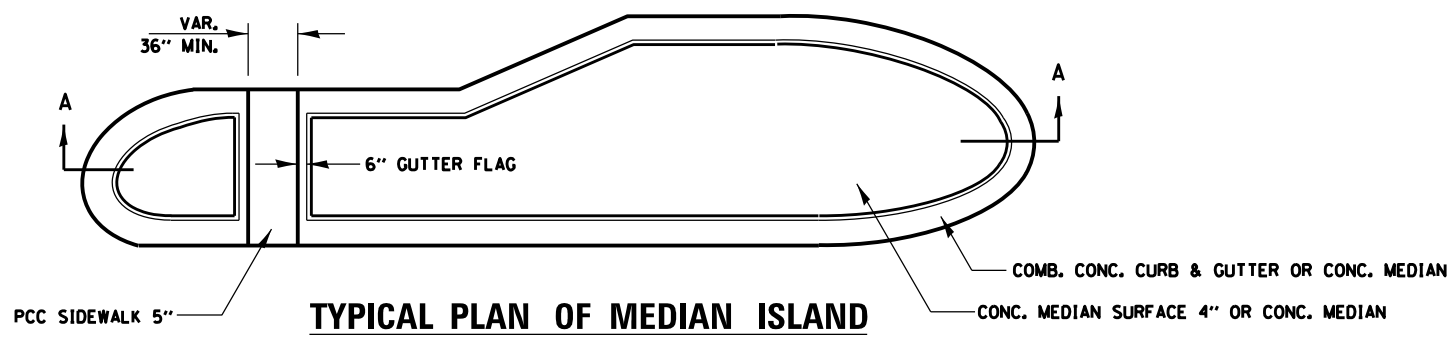
**RAMP IN PAVED AREA**  
**SETBACK > 5'**



**SECTION C-C**  
① Upper landing not required for ramp slopes flatter than 1:20.

**PERPENDICULAR CURB RAMPS**  
**FOR SIDEWALKS**

FILE NAME = D03306-SHT-DETAILS.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL DRAWINGS SHEETS		F.A.P. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1"=1'	DRAWN - RAMIREZ, P	REVISED -				316	(116) R,T	BUREAU	221	153
	PLOT DATE = DECEMBER 2011	CHECKED - JOHNSON, B	REVISED -				CONTRACT NO. 66901				
		DATE - DECEMBER 2011	REVISED -				ILLINOIS FED. AID PROJECT				
				SCALE:	SHEET NO. 6 OF 18 SHEETS	STA. 1625+49.62 TO STA. 295+14.27					



**GENERAL NOTES**

SEE STANDARD 606301 AND PLAN SHEETS FOR STATION, OFFSETS, RADII, DIMENSIONS, AND DETAILS NOT SHOWN.

THE SIDEWALK SHOULD DRAIN TO THE LOW SIDE OF THE ISLAND. IF NECESSARY THE SIDEWALK SHALL BE SLOPED TO DRAIN AT A MAXIMUM 2% GRADE.

SEE THE PLAN GENERAL NOTES FOR THE TYPE OF CURB & GUTTER TO BE USED ON ISLANDS.

CURB & GUTTER ADJACENT TO THE WALKWAY IN THE INTERIOR OF THE ISLAND SHALL HAVE 6" GUTTER FLAGS.

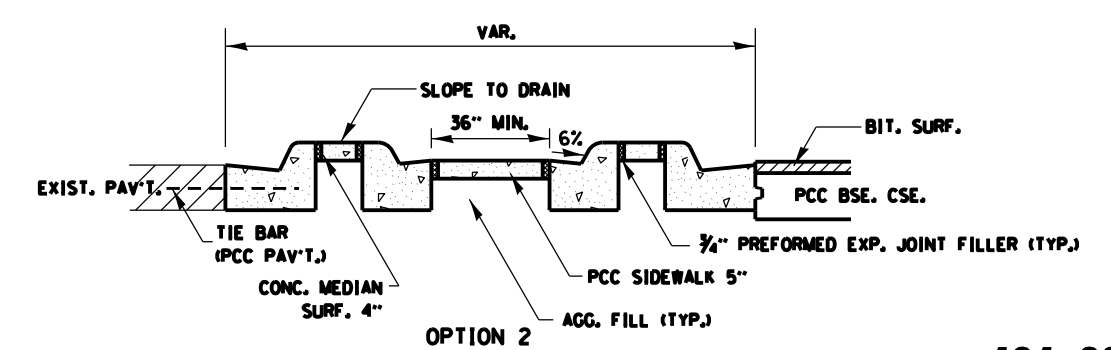
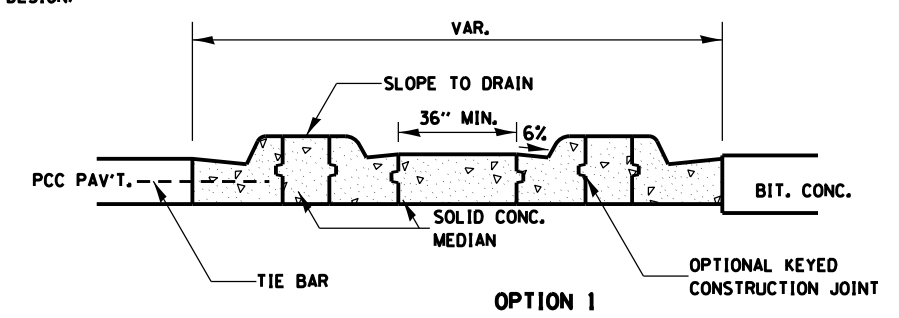
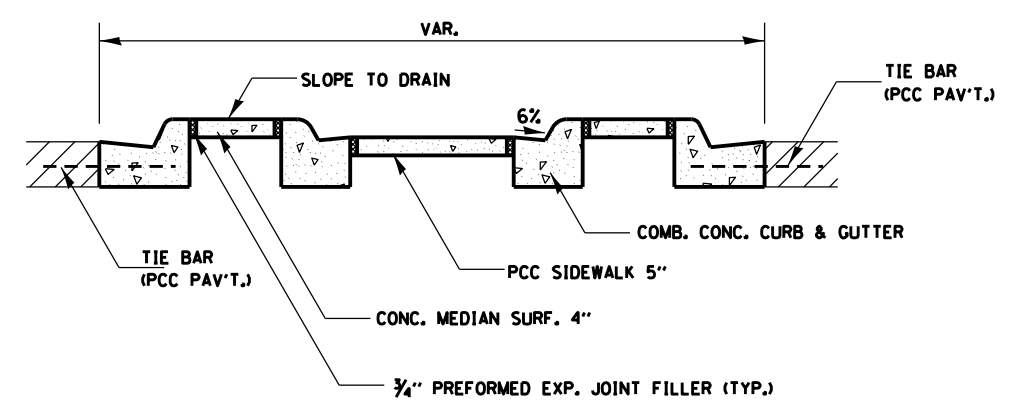
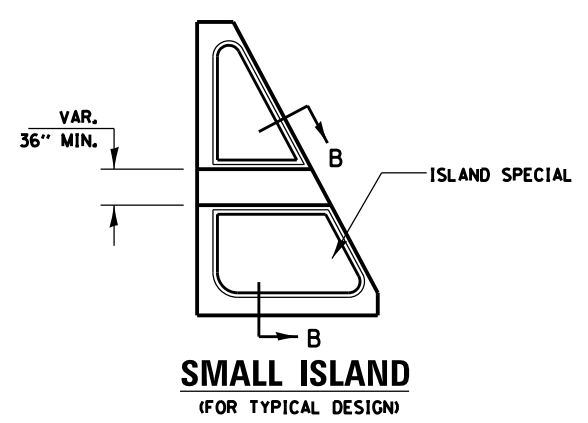
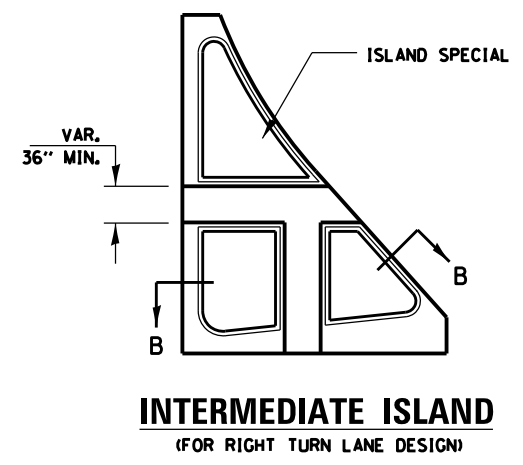
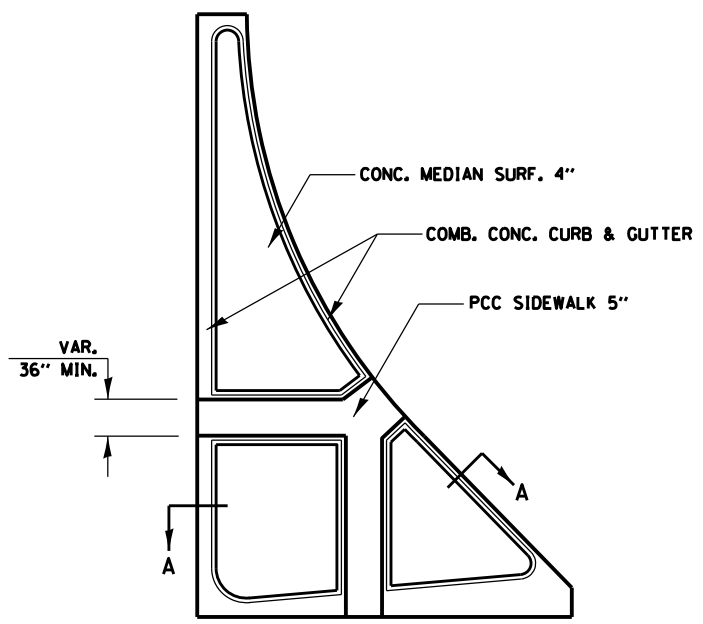
THE SIDEWALK SHOULD NOT BE CLOSER THAN 36" FROM THE CORNER OF THE ISLAND.

KEYED LONGITUDINAL CONSTRUCTION JOINTS SHALL BE CONSTRUCTED WITHOUT TIE BARS.

MEDIANS AND LARGE ISLANDS SHALL CONSIST OF PCC SIDEWALK 5", CONCRETE MEDIAN SURFACE 4", AND COMBINATION CONCRETE CURB & GUTTER, TYPE M OR B OF THE SIZE SPECIFIED. MEDIAN ISLAND CAN ALSO BE SOLID CONCRETE MEDIANS.

LOCATIONS, LAYOUTS, AND WIDTHS OF THE FLUSH SIDEWALK AREA, SHALL BE DETERMINED BY THE DESIGNER AND SHOWN ON THE PLANS.

THE INTERMEDIATE AND SMALL ISLANDS WILL BE MEASURED FOR PAYMENT FROM E.O.P. TO E.O.P. USING EITHER OPTION 1 OR OPTION 2, AS DIRECTED BY THE ENGINEER, AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQ. YD. FOR CONCRETE ISLAND (SPECIAL), WHICH SHALL INCLUDE THE COMBINATION CURB & GUTTER, SIDEWALK, AGGREGATE FILL, CONCRETE MEDIAN SURFACE, AND SOLID CONCRETE MEDIAN.

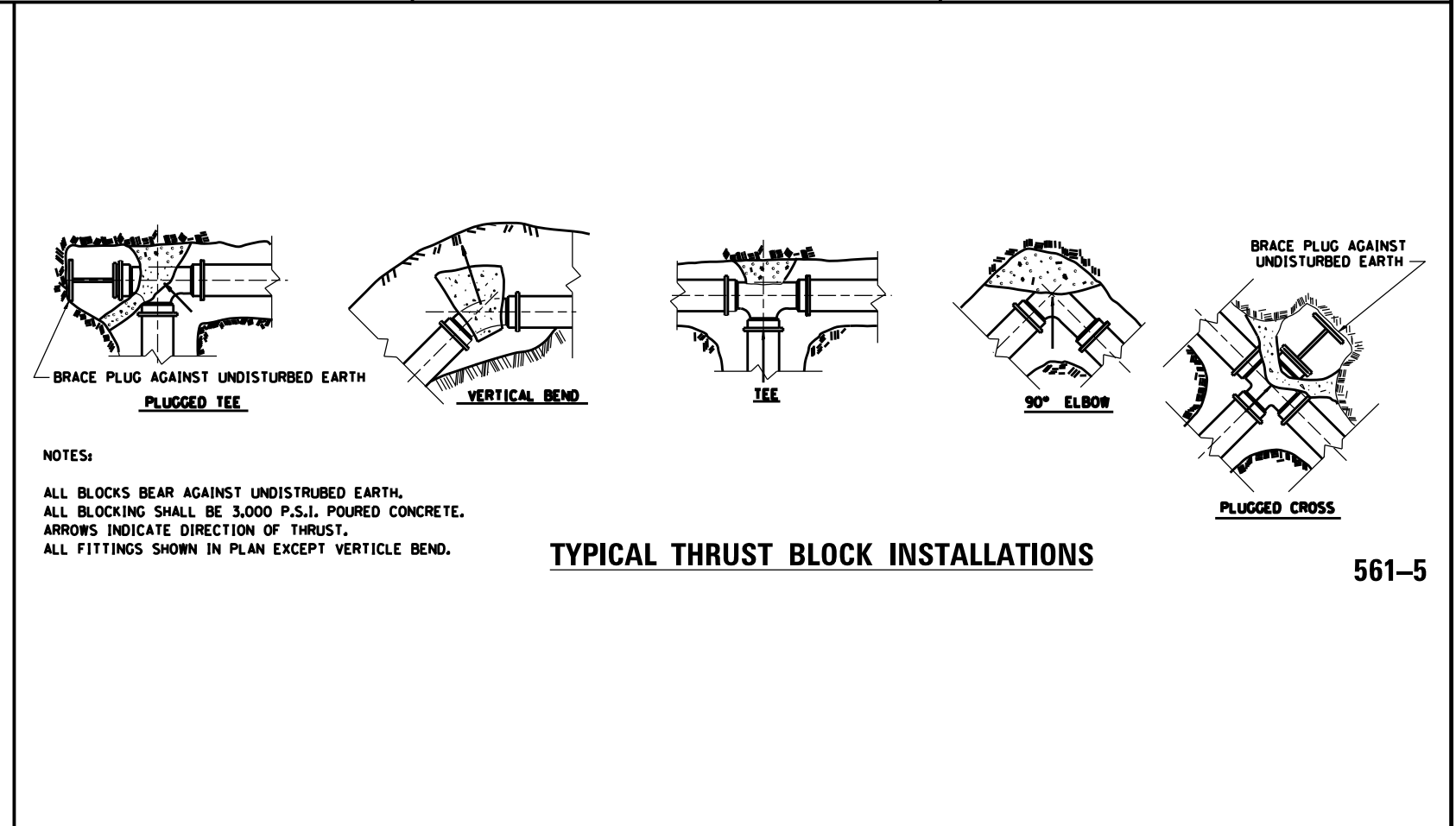
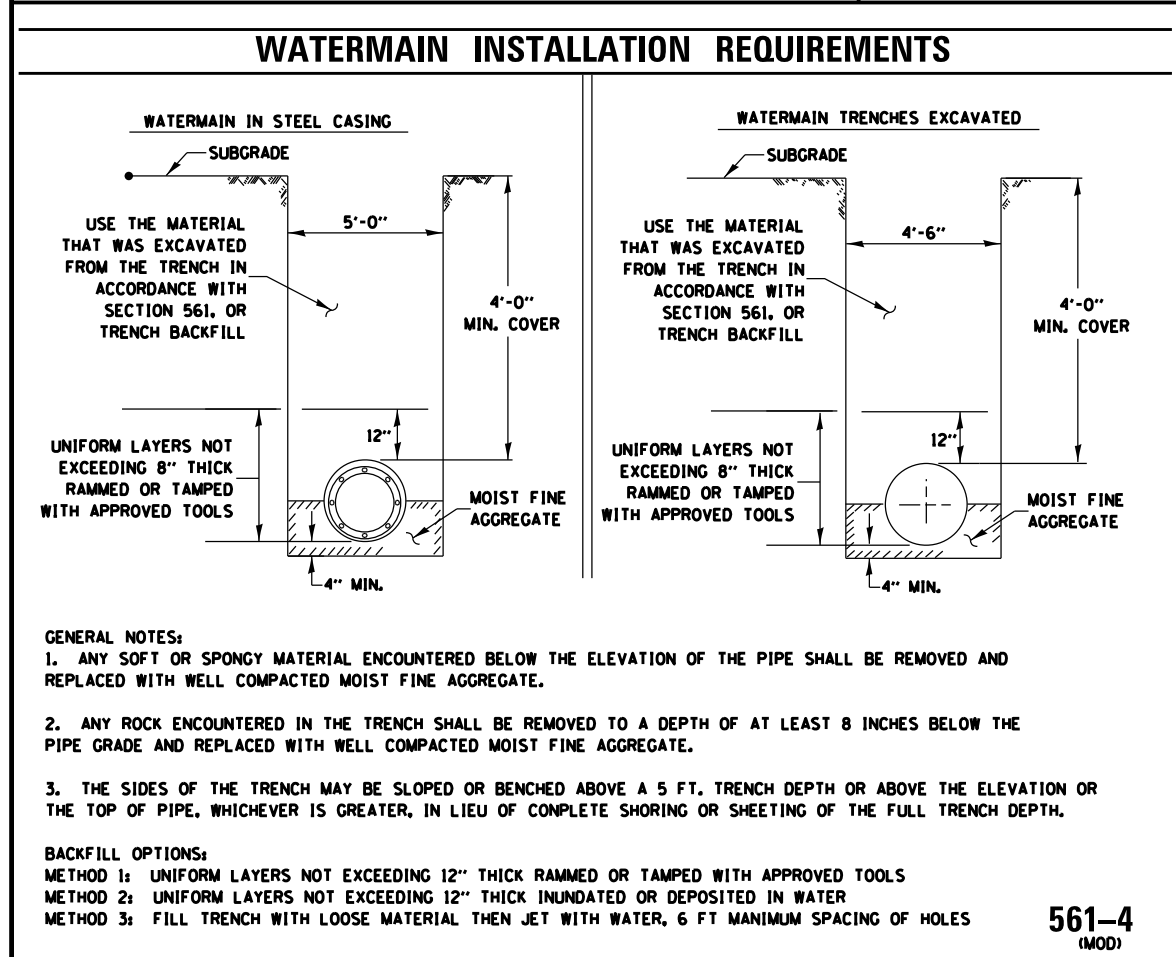
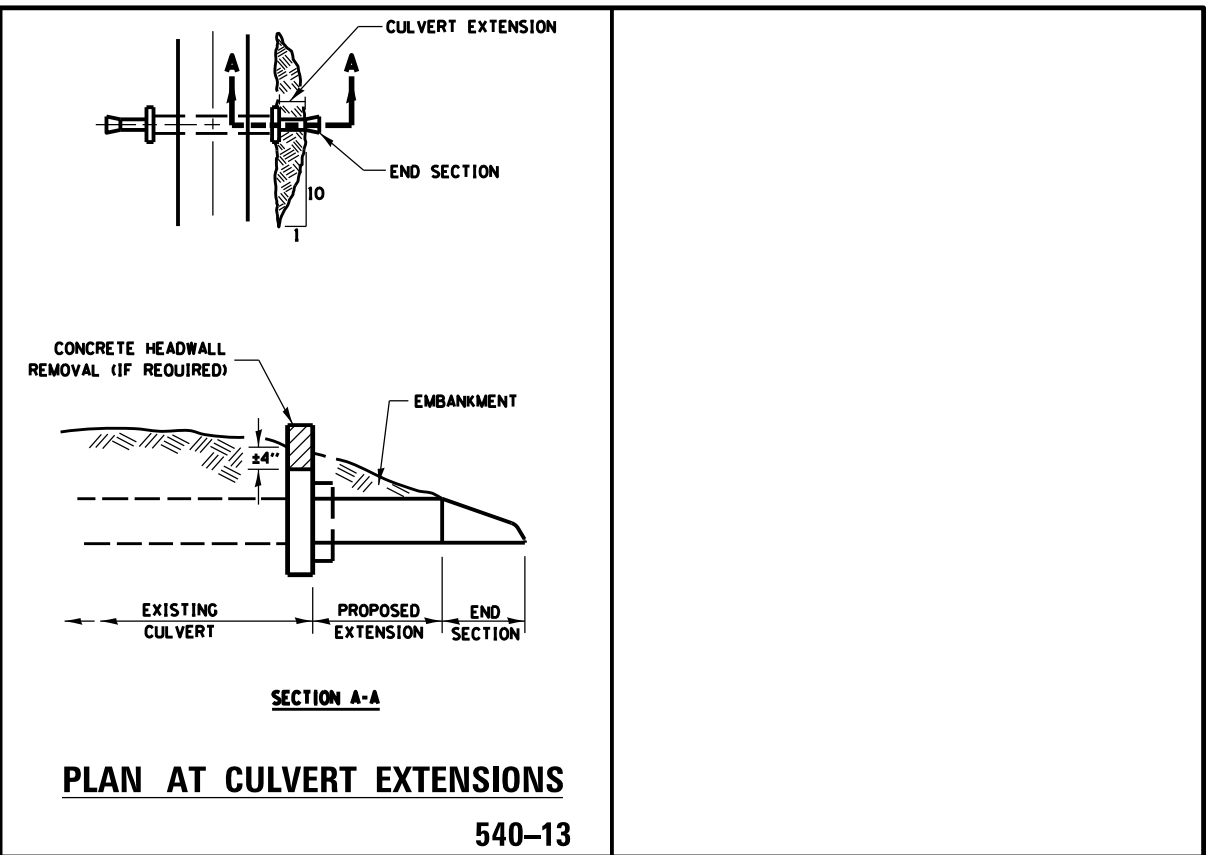
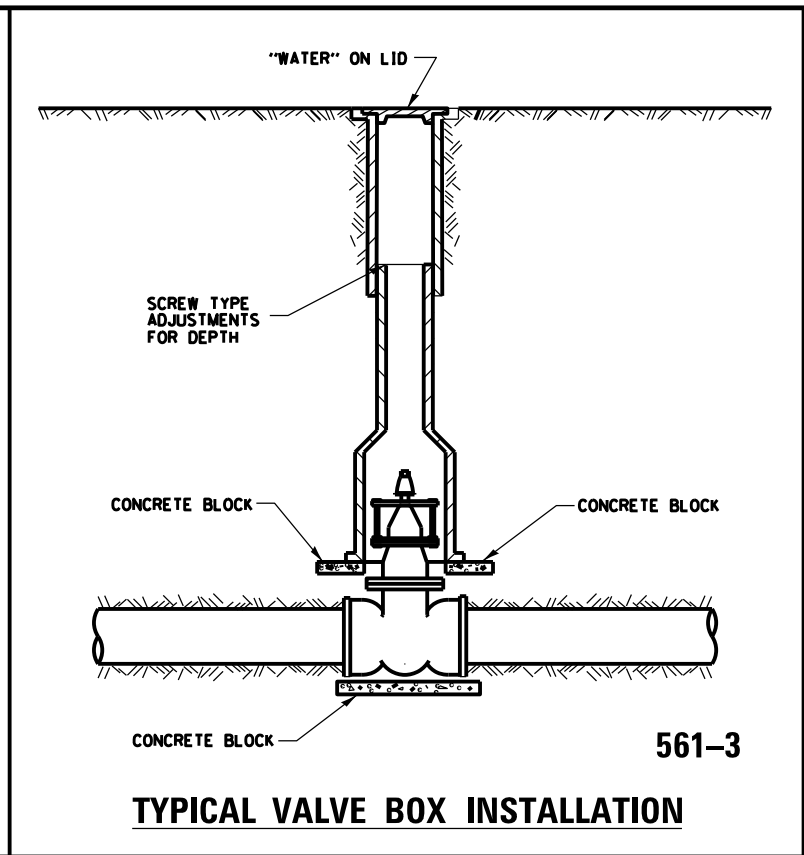
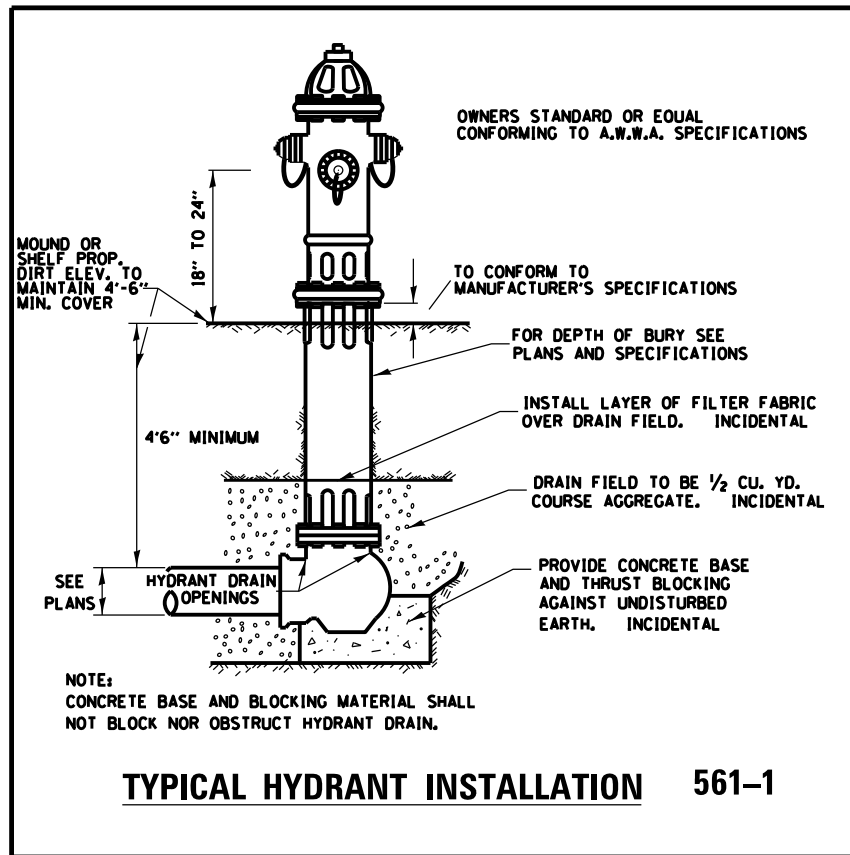


**PC CONCRETE ISLANDS AND MEDIANS WITH SIDEWALK**

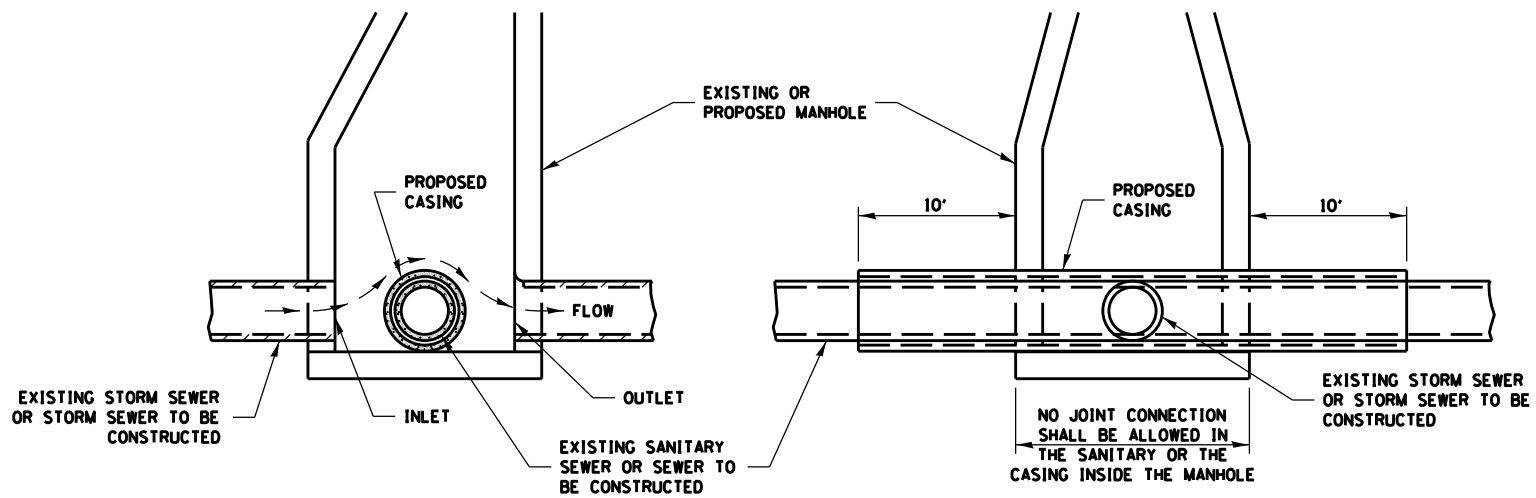
**SECTION B-B**

**424-28 (MOD)**

FILE NAME = D03306-SHT-DETAILS.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL DRAWINGS SHEETS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1"=1'	DRAWN - RAMIREZ, P	REVISED -					316	(116) R,T	BUREAU	221	154
	PLOT DATE = DECEMBER 2011	CHECKED - JOHNSON, B	REVISED -		SCALE: SHEET NO. 7 OF 18 SHEETS STA. 1625+49.62 TO STA. 295+14.27			CONTRACT NO. 66901				
		DATE - DECEMBER 2011	REVISED -		ILLINOIS FED. AID PROJECT							



FILE NAME = D03306-SHT-DETAILS.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL DRAWINGS SHEETS	F.A.P. RTE. 316	SECTION (116) R,T	COUNTY BUREAU	TOTAL SHEETS 221	SHEET NO. 155
PLOT SCALE = 1"=1'				SCALE: SHEET NO. 8 OF 18 SHEETS STA. 1625+49.62 TO STA. 295+14.27		CONTRACT NO. 66901 ILLINOIS FED. AID PROJECT				
PLOT DATE = DECEMBER 2011				DATE - DECEMBER 2011						

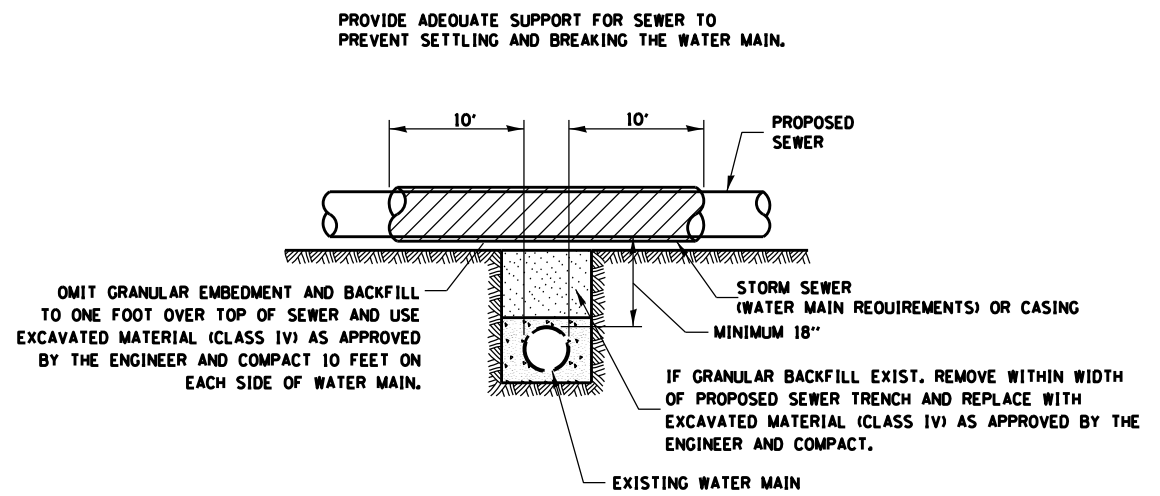


**ELEVATION - ECCENTRIC**

**ELEVATION - CONCENTRIC**

CASING SHALL BE CAST IRON WITH AN INSIDE DIAMETER 2" LARGER IN DIAMETER THAN ENCASED PIPE OUTSIDE DIAMETER WITH BOTH ENDS OF CASING SEALED

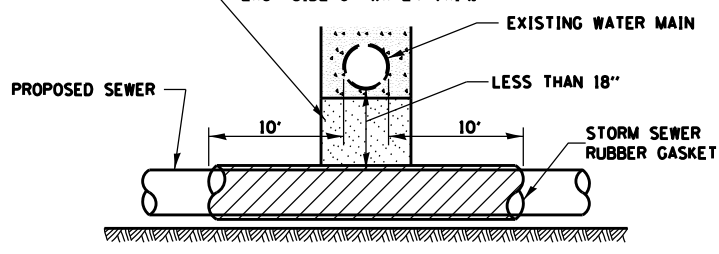
**AT GRADE CROSSING OF  
SANITARY AND STORM SEWER**



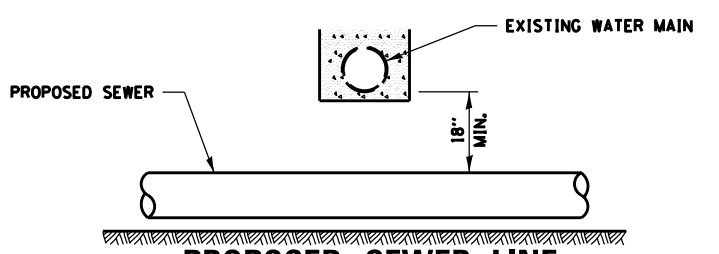
CASING SHALL BE OF WATERMAIN MATERIAL WITH AN INSIDE DIAMETER 2" LARGER IN DIAMETER THAN ENCASED PIPE OUTSIDE DIAMETER WITH BOTH ENDS OF CASING SEALED

**PROPOSED SEWER LINE WITH MINIMUM  
18" VERTICAL SEPARATION ABOVE  
EXISTING WATERMAIN**

POINT LOADS SHALL NOT BE ALLOWED BETWEEN SEWER OR SEWER CASING AND WATER MAIN  
PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH  
OMIT GRANULAR EMBEDMENT AND BACKFILL TO ONE FOOT OVER TOP OF SEWER AND USE EXCAVATED MATERIAL (CLASS IV) AS APPROVED BY THE ENGINEER AND COMPACT 10 FEET ON EACH SIDE OF WATER MAIN.



PROVIDE ADEQUATE SUPPORT FOR EXISTING WATER MAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH  
MAINTAIN 18" MINIMUM VERTICAL SEPARATION FOR 10' HORIZONTALLY

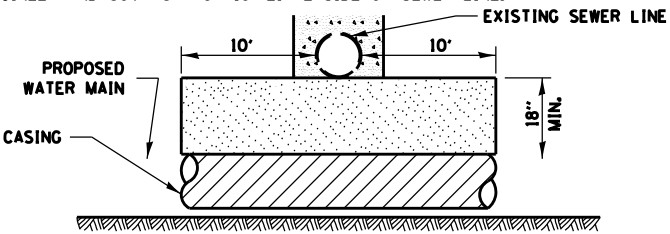


**PROPOSED SEWER LINE  
BELOW EXISTING WATER MAIN**

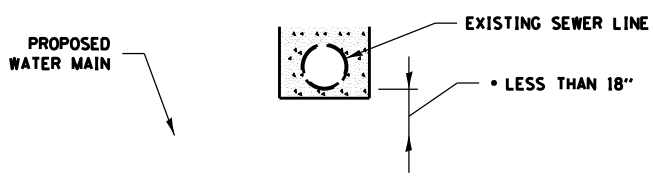
PROVIDE ADEQUATE SUPPORT FOR EXISTING SEWER LINE TO PREVENT DAMAGE DUE TO SETTLEMENT.

IF GRANULAR BACK FILL EXISTS, REMOVE WITHIN WIDTH OF EXISTING SEWER TRENCH AND REPLACE WITH EXCAVATED MATERIAL (CLASS IV) AS APPROVED BY THE ENGINEER AND COMPACT.

OMIT GRANULAR EMBEDMENT AND BACKFILL TO ONE FOOT OVER TOP OF WATER MAIN AND USE EXCAVATED MATERIAL (CLASS IV) AS APPROVED BY THE ENGINEER AND COMPACT FOR 10' EITHERSIDE OF SEWER LINE.



CASING SHALL BE OF WATER MAIN MATERIAL WITH AN INSIDE DIAMETER 2" LARGER IN DIAMETER THAN ENCASED PIPE OUTSIDE DIAMETER WITH BOTH ENDS OF CASING SEALED

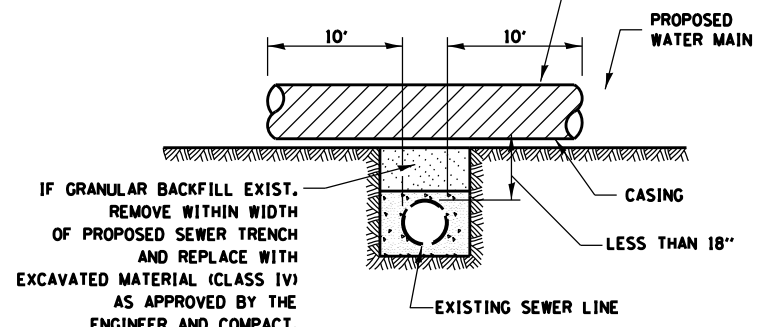


• NOT ALLOWED  
MUST MAINTAIN 18" VERTICAL SEPARATION

**PROPOSED WATER MAIN  
BELOW EXISTING SEWER LINE**

POINT LOADS SHALL NOT BE ALLOWED BETWEEN WATER MAIN CASING AND SEWER

OMIT GRANULAR EMBEDMENT AND BACKFILL TO ONE FOOT OVER TOP OF SEWER AND USE EXCAVATED MATERIAL (CLASS IV) AS APPROVED BY THE ENGINEER AND COMPACT 10 FEET ON EACH SIDE OF WATER MAIN.

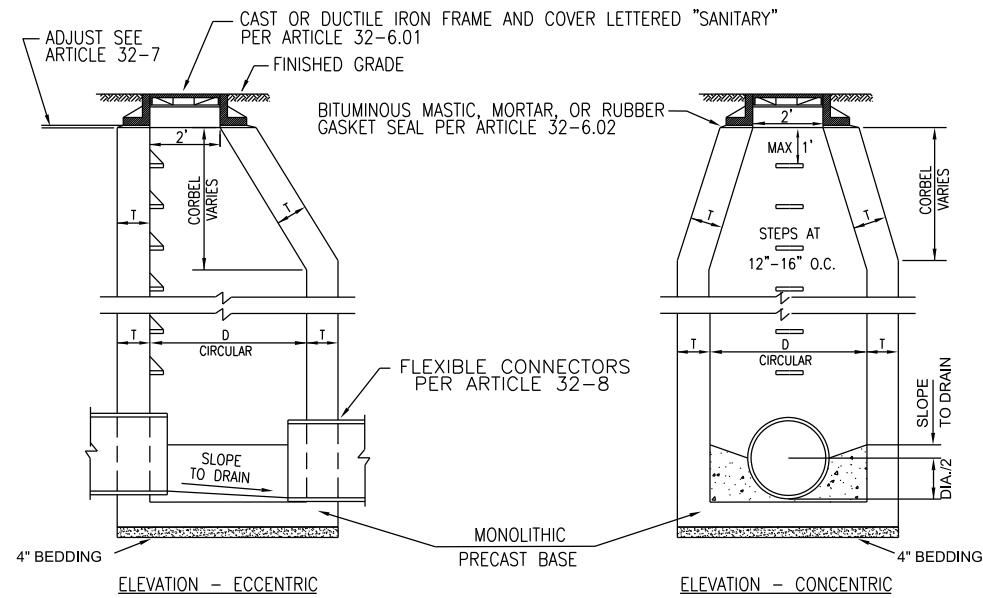


CASING SHALL BE OF WATERMAIN MATERIAL WITH AN INSIDE DIAMETER 2" LARGER IN DIAMETER THAN ENCASED PIPE OUTSIDE DIAMETER WITH BOTH ENDS OF CASING SEALED

**PROPOSED WATER MAIN  
ABOVE EXISTING SEWER LINE**

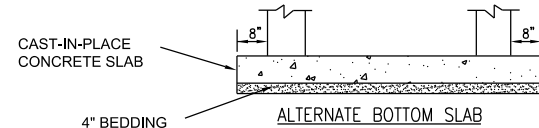
FILE NAME = D03306-SHT-DETAILS.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL DRAWINGS SHEETS			F.A.P. RTE. = 316	SECTION = (116) R,T	COUNTY =	TOTAL SHEETS = 221	SHEET NO. = 156			
PLOT SCALE = 1"=1'	DRAWN - RAMIREZ, P	CHECKED - JOHNSON, B	REVISED -					SCALE: =	SHEET NO. 9 OF 18 SHEETS	STA. 1625+49.62 TO STA. 295+14.27	BUREAU =		CONTRACT NO. 66901		
PLOT DATE = DECEMBER 2011	DATE - DECEMBER 2011	REVISOR -	REVISOR -					ILLINOIS FED. AID PROJECT							





ELEVATION - ECCENTRIC

ELEVATION - CONCENTRIC

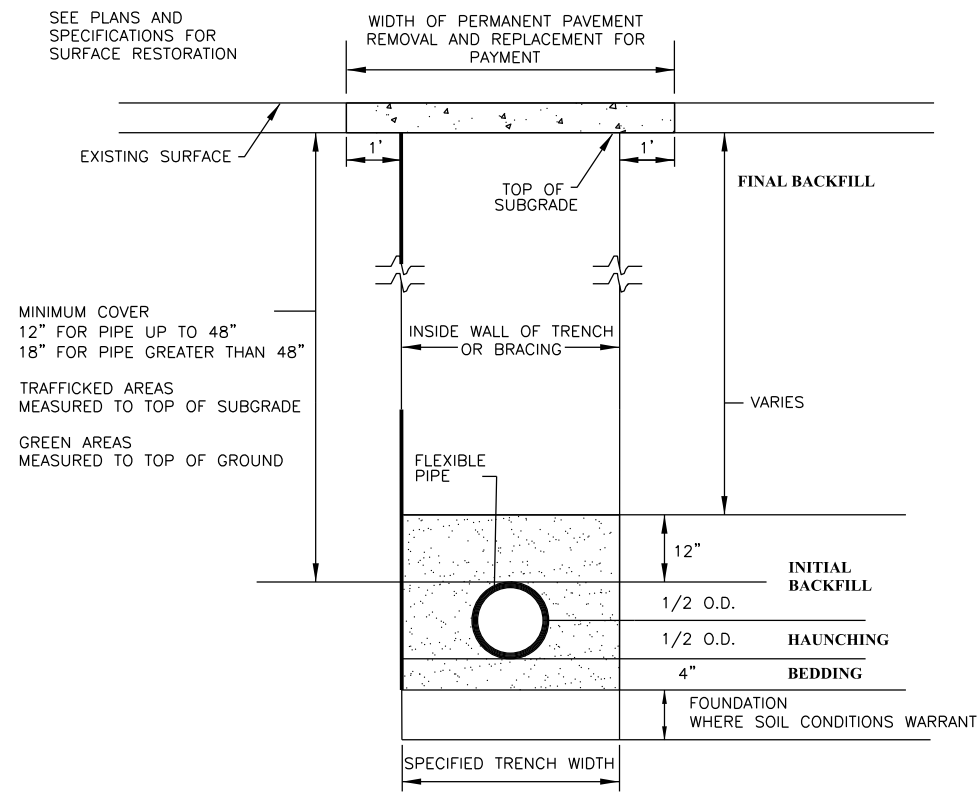


ALT. MATERIALS FOR WALLS	D	T (MIN.)
CONCRETE MASONRY UNITS	4 FEET	5 IN
	5 FEET	5 IN
	6 FEET	5 IN
BRICK MASONRY	4 FEET	8 IN
	5 FEET	8 IN
	6 FEET	8 IN
PRECAST REIN. CONCRETE SECT.	4 FEET	4 IN
	5 FEET	5 IN
	6 FEET	6 IN
CAST-IN-PLACE CONCRETE.	4 FEET	6 IN
	5 FEET	6 IN
	6 FEET	6 IN

NOTE: SANITARY MANHOLES SUBJECT TO SATURATED SOIL CONDITIONS OR SURFACE SUBMERGENCE SHALL BE EQUIPPED WITH CHIMNEY SEALS AND WATER TIGHT MANHOLE COVERS

NOTE: MANHOLE STEPS WHEN REQUIRED, SHALL BE FURNISHED AND INSTALLED AS SHOWN ON THE PLANS IN ACCORDANCE WITH ARTICLE 32-5

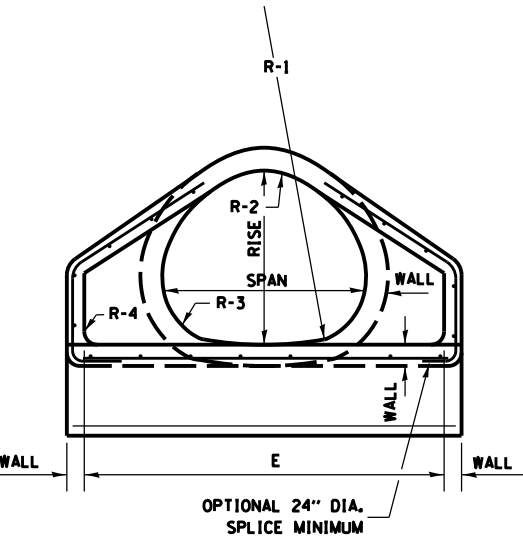
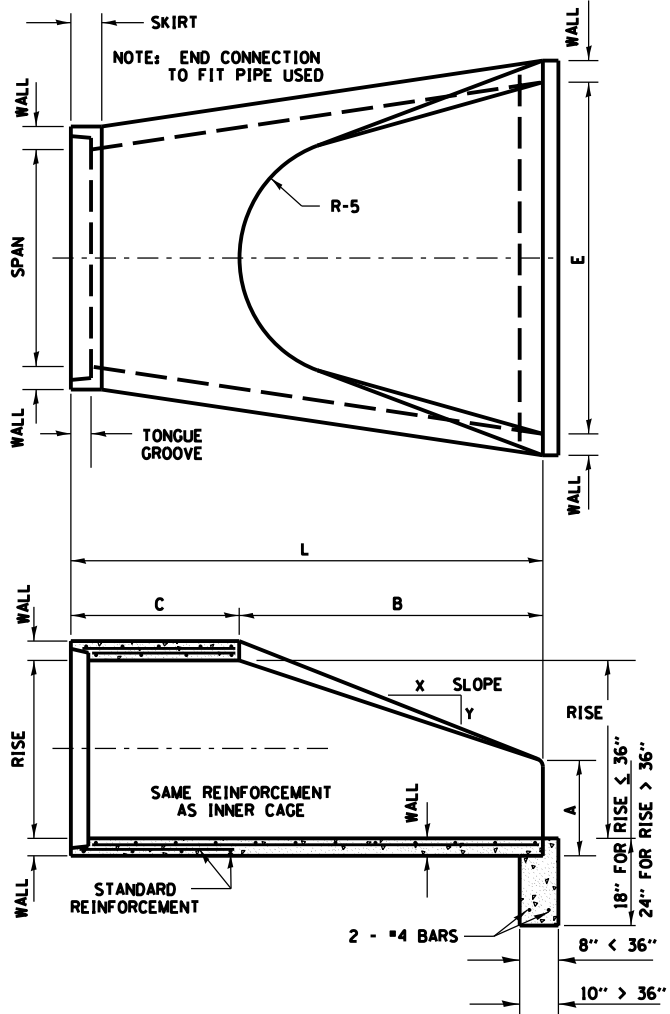
**TYPICAL SANITARY  
MANHOLE "A"**



**FLEXIBLE PIPE  
INSTALLATION  
DETAIL**

SIZE	WALL	SPAN	RISE	L	B	C	E	A	SLOPE	R-1	R-2	R-3	R-4	R-5
18"	2 1/2"	22"	13 1/2"	72"	27"	45"	36"	7"	2.16:1	27 1/2"	13 3/4"	5 1/4"	2"	12"
24"	3"	28 1/2"	18"	72"	39"	33"	48"	8"	2.29:1	40 5/8"	14 9/8"	4 9/8"	3"	14"
30"	3 1/2"	36 1/4"	22 1/2"	72"	48"	24"	60"	10"	2.34:1	51"	18 3/4"	6 1/8"	3"	15"
36"	4"	43 3/4"	26 3/8"	96"	60"	36"	72"	10 5/8"	2.4:1	62"	22 1/2"	6 1/2"	6"	20"
42"	4 1/2"	51 1/8"	31 5/8"	96"	60"	36"	78"	15 5/8"	2.35:1	73"	26 1/4"	7 3/4"	6"	22"
48"	5"	58 1/2"	36"	96"	60"	36"	84"	21"	2.31:1	84"	30"	8 7/8"	6"	22"
54"	5 1/2"	65"	40"	96"	60"	36"	90"	25 1/2"	2.26:1	92 1/2"	33 3/8"	10"	6"	24"
60"	6"	73"	45"	96"	75"	21"	96"	26"	2.34:1	105"	37 1/2"	11 1/8"	6"	21"
72"	7"	88"	54"	100"	78"	22"	120"	35"	2.29:1	126"	45"	13 3/8"	6"	24"

ALTERNATE MATERIALS FOR WALLS	
PRECAST REINFORCED CONCRETE RISERS	3"
CONCRETE MASONRY UNITS	5"
CAST-IN-PLACE CONCRETE	6"
BUILDING BRICK, GRADE SW. FROM CLAY OR SHALE	8"



**NOTES:**

PRECAST CONCRETE FLARED END SECTIONS SHALL CONFORM TO THE APPLICABLE REQUIREMENT OF AASHTO M-206.

PRECAST CONCRETE FLARED END SECTION FOR PIPE ARCH DIAMETER REQUIRED SHALL BE AS INDICATED ON DETAIL PLAN FOR EACH INDIVIDUAL INSTALLATION.

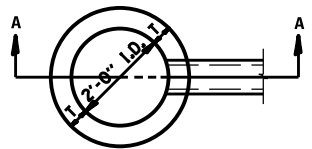
THE END BLOCK SHALL BE PLACED PRIOR TO THE INSTALLATION OF THE FLARED END SECTION. THE END BLOCK SHALL BE BACKFILLED IN ACCORDANCE WITH ARTICLE 502.10 OF THE STANDARD SPECIFICATIONS, COST INCLUDED IN THE END SECTION.

**LONGITUDINAL SECTION**

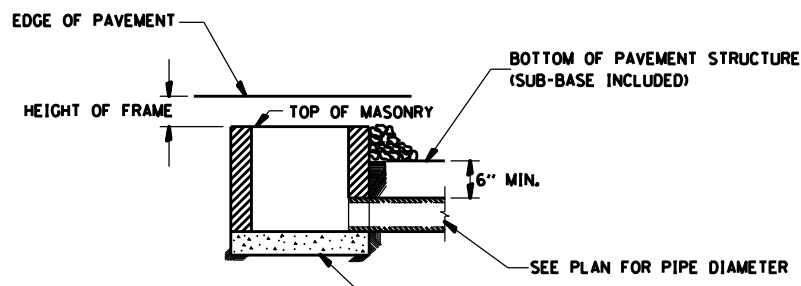
**PRECAST REINFORCED CONCRETE**

**ARCH DIAMETER FLARED END SECTION**

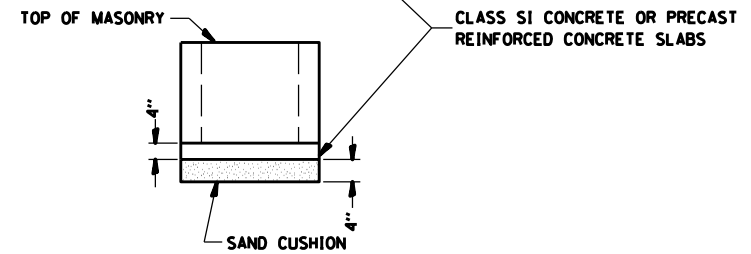
542-13



**PLAN**



**SEC. A-A**



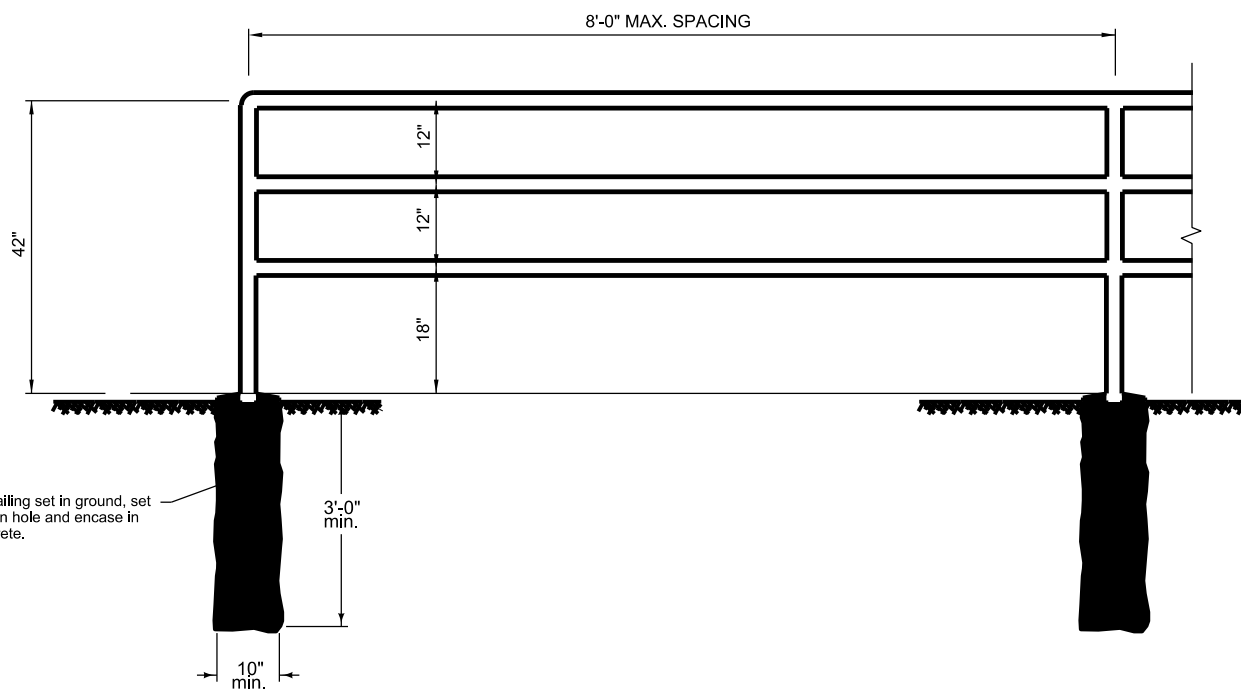
- NOTE:**
1. THE CONTRACT UNIT PRICE FOR INLETS TYPE A SHALL INCLUDE THE FRAME AND LID OR GRATE.
  2. FURNISHING AND INSTALLING SAND CUSHION IS TO BE INCLUDED IN THE CONTRACT UNIT PRICE FOR TYPE A INLETS.
  3. THE TYPE A INLET SHOULD NOT BE USED AS A RECEIVER OF STORM WATER FROM ANOTHER INLET.

**FOR INLET TYPE A**

(TO BE USED AT PAVED SECTION WITH CURB & GUTTER)  
NO SCALE

602-1  
(MOD)

FILE NAME = D03306-SHT-DETAILS.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL DRAWINGS SHEETS	F.A.P. RTE. 316	SECTION (116) R,T	COUNTY BUREAU	TOTAL SHEETS 221	SHEET NO. 158	
PLOT SCALE = 1"=1'	DRAWN - RAMIREZ, P	CHECKED - JOHNSON, B	REVISED -			SCALE:	SHEET NO. 11 OF 18 SHEETS	STA. 1625+49.62 TO STA. 295+14.27	CONTRACT NO. 66901		
PLOT DATE = DECEMBER 2011	DATE - DECEMBER 2011	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT					



**NOTES:**

GRIPPING SURFACES SHALL BE UNINTERRUPTED BY NEWEL POSTS, OTHER CONSTRUCTION ELEMENTS, OR OBSTRUCTIONS.

ENDS OF HANDRAIL SHALL BE EITHER ROUNDED OR RETURNED SMOOTHLY TO POST.

HAND & SAFETY RAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

HANDRAIL SHALL CONFORM TO SECTION 509 WITH THE EXCEPTION THAT ALL PIPE AND CONNECTIONS SHALL BE WELDED GALVANIZED OR ALUMINUM ACCORDING TO ARTICLE 1006.27, 1006.30, OR 1006.34.

THE DIAMETER OF THE GRIPPING SURFACE OF THE HANDRAIL SHALL BE 1/4" TO 1/2".

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR PIPE HANDRAIL.

PROVIDE EXPANSION JOINTS AT 40' MAX SPACING.

**PIPE HANDRAIL DETAIL**

**LAND SECTION MARKERS**

**NOTES**

THE REFERENCE MARKERS SHALL BE CONSTRUCTED BY POURING CLASS SI CONCRETE INTO HOLES PREPARED BY A POST HOLE DIGGER OR OTHER APPROVED METHODS. FORMS WILL NOT BE REQUIRED. PRECAST MARKERS OF THE SAME SIZE AND CONSTRUCTION MAY BE USED.

IN CULTIVATED FIELDS REFERENCE MARKERS SHALL BE PLACED TWO FEET BELOW THE GROUND SURFACE. IN FENCE LINES OR PROTECTED AREAS THE TOP SHALL BE PLACED AT GROUND LEVEL.

THE FOLLOWING WORK SHALL BE DONE UNDER THE DIRECTION OF A REGISTERED LAND SURVEYOR OF THE STATE OF ILLINOIS:

VERIFY AND TIE OFF ALL U.S. PUBLIC LAND SURVEY MONUMENTS, SHOWN IN THE PLANS, PRIOR TO CONSTRUCTION OPERATIONS. TIE POINTS SHALL BE SUFFICIENT IN NUMBER AND IN LOCATIONS AS NOT TO BE DISTURBED DURING CONSTRUCTION OPERATIONS.

AFTER CONSTRUCTION OPERATIONS ARE COMPLETE, INSTALL A PERMANENT SURVEY MARKER OF THE TYPE SPECIFIED TO REPLACE THE U.S. PUBLIC LAND SURVEY MONUMENT THAT WAS DISPLACED OR COVERED DURING CONSTRUCTION. THE LETTERING REFERRING TO THE STATE OF ILLINOIS AND DIVISION OF HIGHWAYS SHALL BE OMITTED FROM THE PERMANENT SURVEY MARKER AND THE MARKER SHALL BE MARKED AS DIRECTED BY THE ENGINEER.

SET FOUR CONCRETE REFERENCE MARKERS FOR EACH U.S. PUBLIC LAND SURVEY MONUMENT.

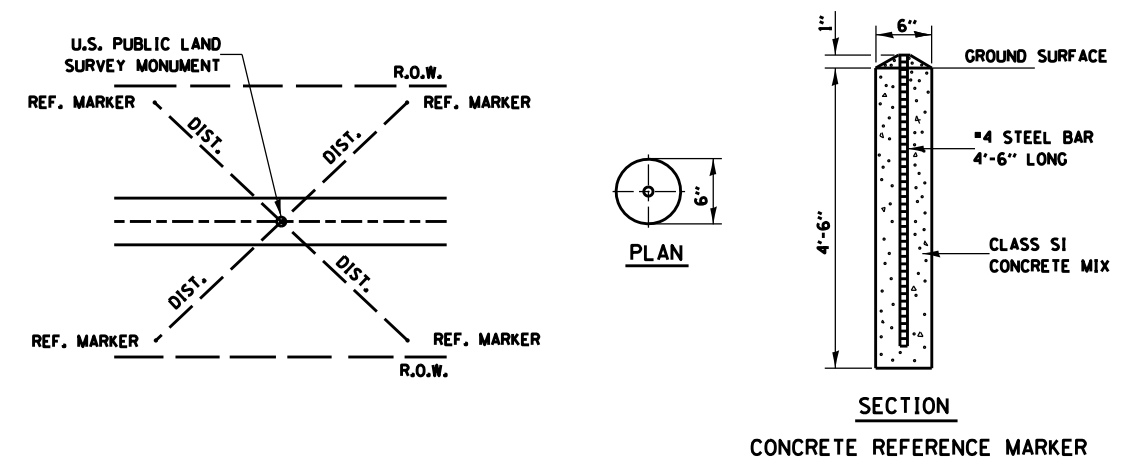
PREPARE MONUMENT RECORDS, FILE THE RECORDS AT THE COUNTY RECORDER'S OFFICE, AND PROVIDE A COPY TO THE DISTRICT OFFICE.

**PERMANENT SURVEY MARKERS, OF THE TYPE SPECIFIED**

SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE, EACH, WHICH WILL BE PAYMENT IN FULL FOR FURNISHING, INSTALLING AND MARKING SAID MARKERS.

**LAND SECTION MARKERS**

SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE, EACH, WHICH WILL BE PAYMENT IN FULL FOR SETTING TIE POINTS, SETTING FOUR CONCRETE REFERENCE MARKERS, PREPARING MONUMENT RECORDS, RECORDING AT COUNTY RECORDER'S OFFICE AND PROVIDING A COPY TO THE DISTRICT OFFICE.



FILE NAME =	USER NAME = RAMIREZ, P
D03306-SHT-DETAILS.DGN	

DESIGNED - JOHNSON, B	REVISED -
DRAWN - RAMIREZ, P	REVISED -
CHECKED - JOHNSON, B	REVISED -
DATE - DECEMBER 2011	REVISED -

DESIGNED - JOHNSON, B	REVISED -
DRAWN - RAMIREZ, P	REVISED -
CHECKED - JOHNSON, B	REVISED -
DATE - DECEMBER 2011	REVISED -

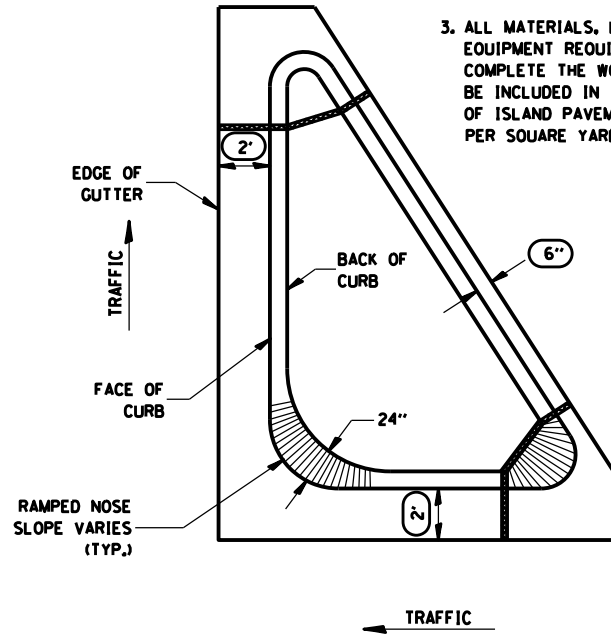
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DETAIL DRAWINGS SHEETS		
SCALE:	SHEET NO. 12 OF 18 SHEETS	STA. 1625+49.62 TO STA. 295+14.27

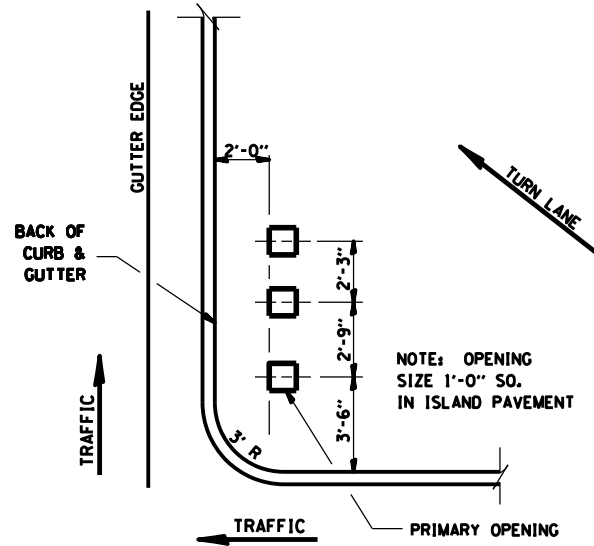
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(116) R,T	BUREAU	221	159
CONTRACT NO. 66901				
ILLINOIS FED. AID PROJECT				

**GENERAL NOTES:**

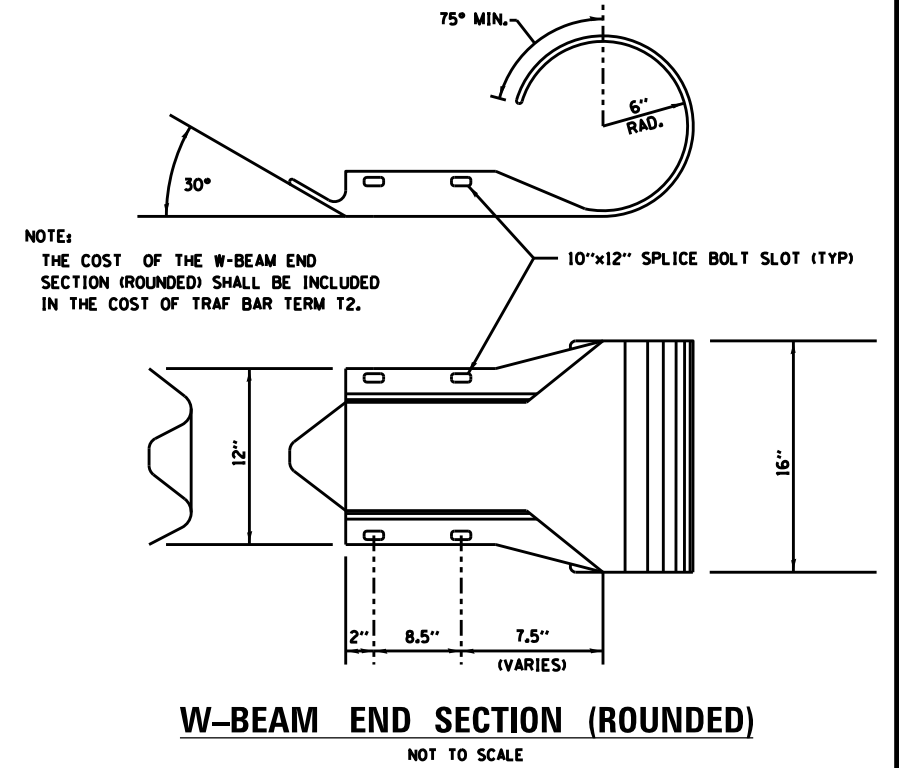
1. THE CURB AND GUTTER CONFIGURATION SHALL BE M-6.06 AND M-6.24
2. SEE STD. 606001 & AND 606301 FOR ADDITIONAL DETAILS.
3. ALL MATERIALS, LABOR, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK SHALL BE INCLUDED IN THE COST OF ISLAND PAVEMENT (SPECIAL) PER SQUARE YARD.



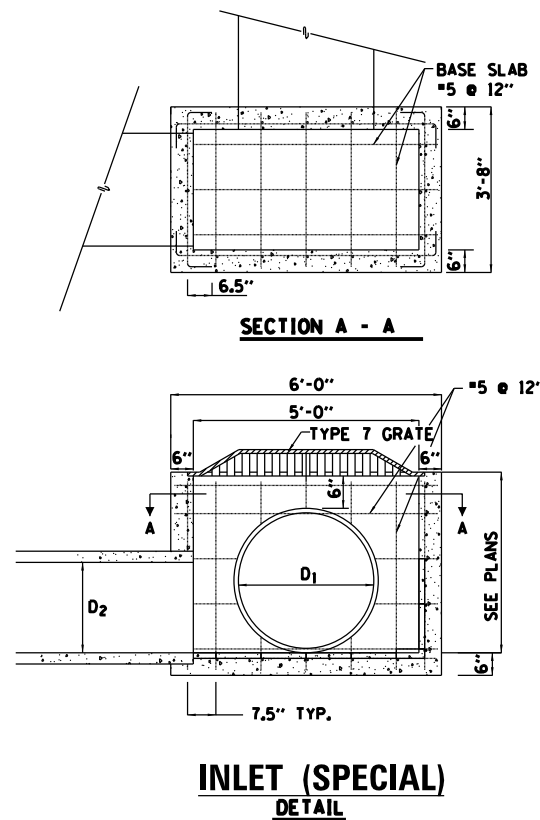
**FULL DEPTH CONCRETE ISLAND 606-1**



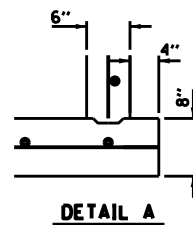
**ISLAND SIGN POST SPACING DETAIL 606-2**  
NOTE: THE ENGINEER SHALL DETERMINE THE NUMBER OF OPENINGS REQUIRED.



**W-BEAM END SECTION (ROUNDED) NOT TO SCALE**

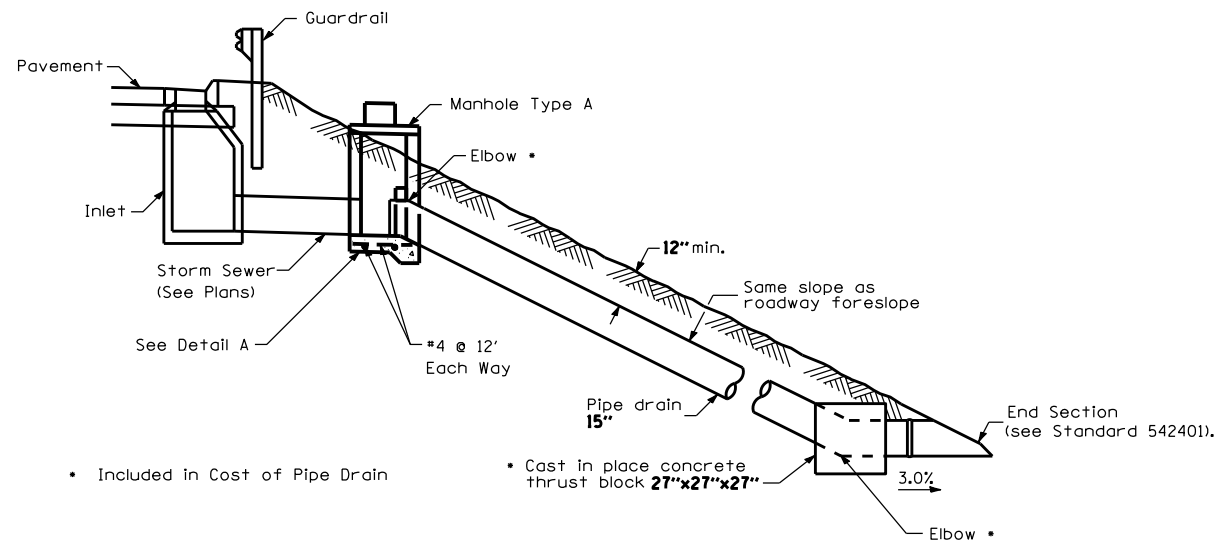


OPTION WITH PRECAST BASE INTEGRAL WITH WALLS IS SHOWN. FOR CAST-IN-PLACE BASE SEE DETAIL A.



**INLET (SPECIAL) DETAIL**

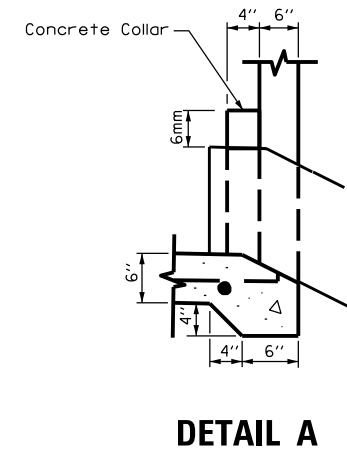
**DETAIL A**



• Included in Cost of Pipe Drain

• Cast in place concrete thrust block 27"x27"x27"

**PIPE DRAIN DETAIL STATION 292+93.0**



**DETAIL A**

FILE NAME = D03306-SHT-DETAILS.DGN

USER NAME = RAMIREZ, P  
PLOT SCALE = 1"=1'  
PLOT DATE = DECEMBER 2011

DESIGNED - JOHNSON, B  
DRAWN - RAMIREZ, P  
CHECKED - JOHNSON, B  
DATE - DECEMBER 2011

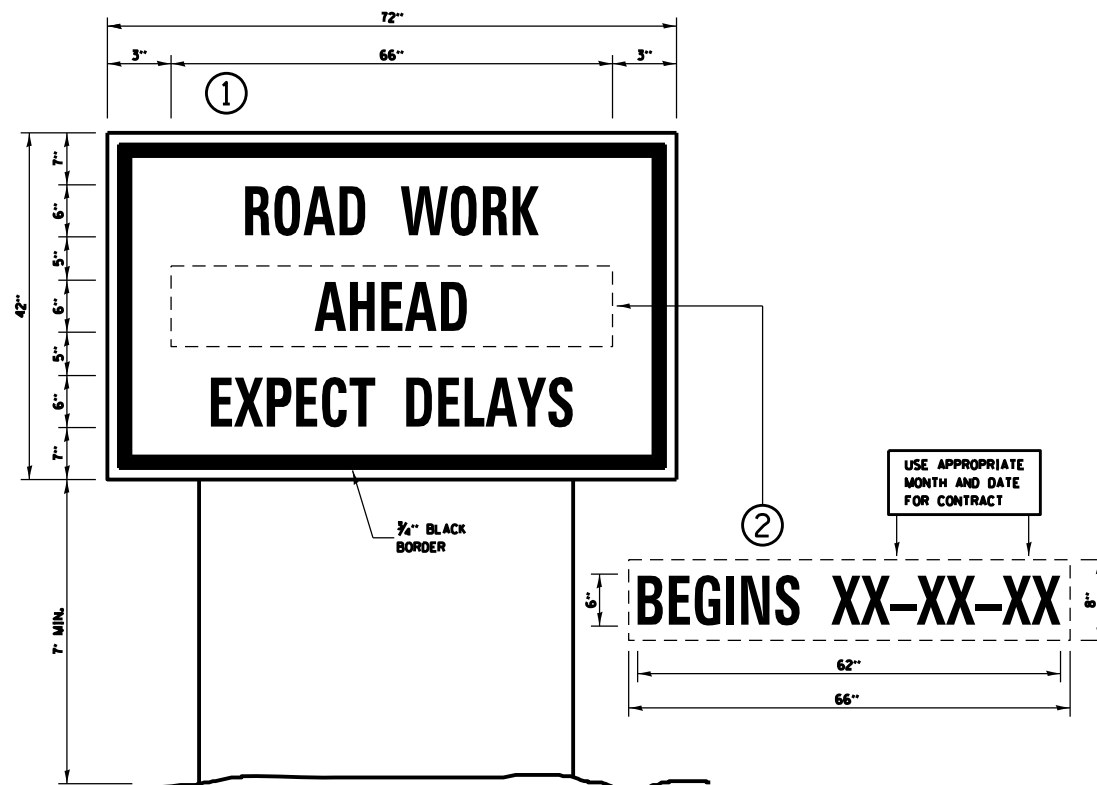
REVISED -  
REVISED -  
REVISED -  
REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DETAIL DRAWINGS SHEETS

SCALE: SHEET NO. 13 OF 18 SHEETS STA. 1625+49.62 TO STA. 295+14.27

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(116) R,T	BUREAU	221	160
CONTRACT NO. 66901				
ILLINOIS FED. AID PROJECT				

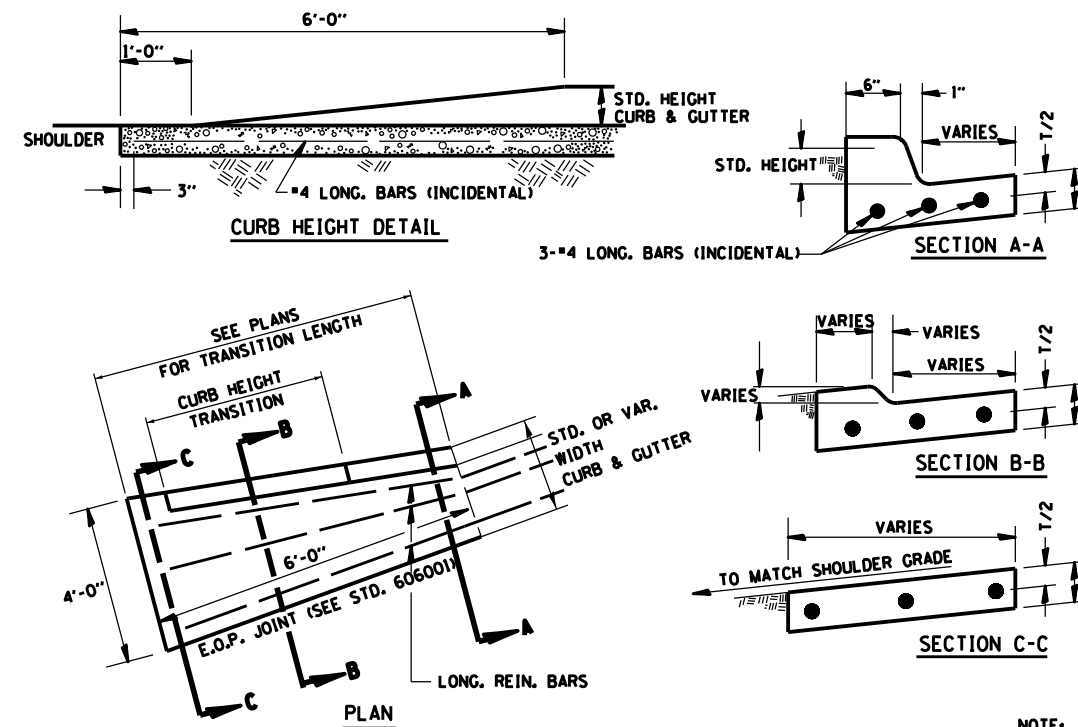


**TEMPORARY INFORMATION SIGNING**

**NOTES:**

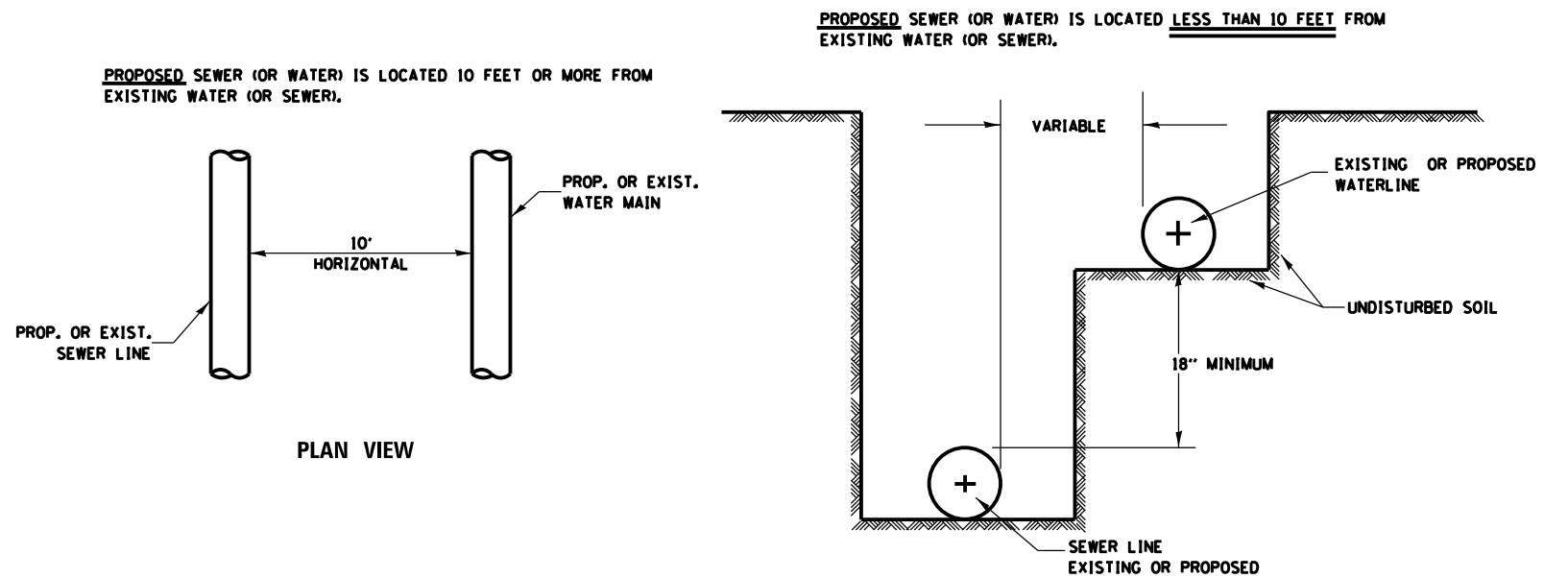
1. USE 6" Ø BLACK LETTERING ON FLOURESENT ORANGE BACKGROUND.
2. ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE LANE CLOSURE.
4. REMOVE PANEL ② ON THAT DATE.
5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. WILL BE PAID FOR PER 50 FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SQ FT AND THE DATE PANEL ② WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.

720-8



**CURB & GUTTER TRANSITION**

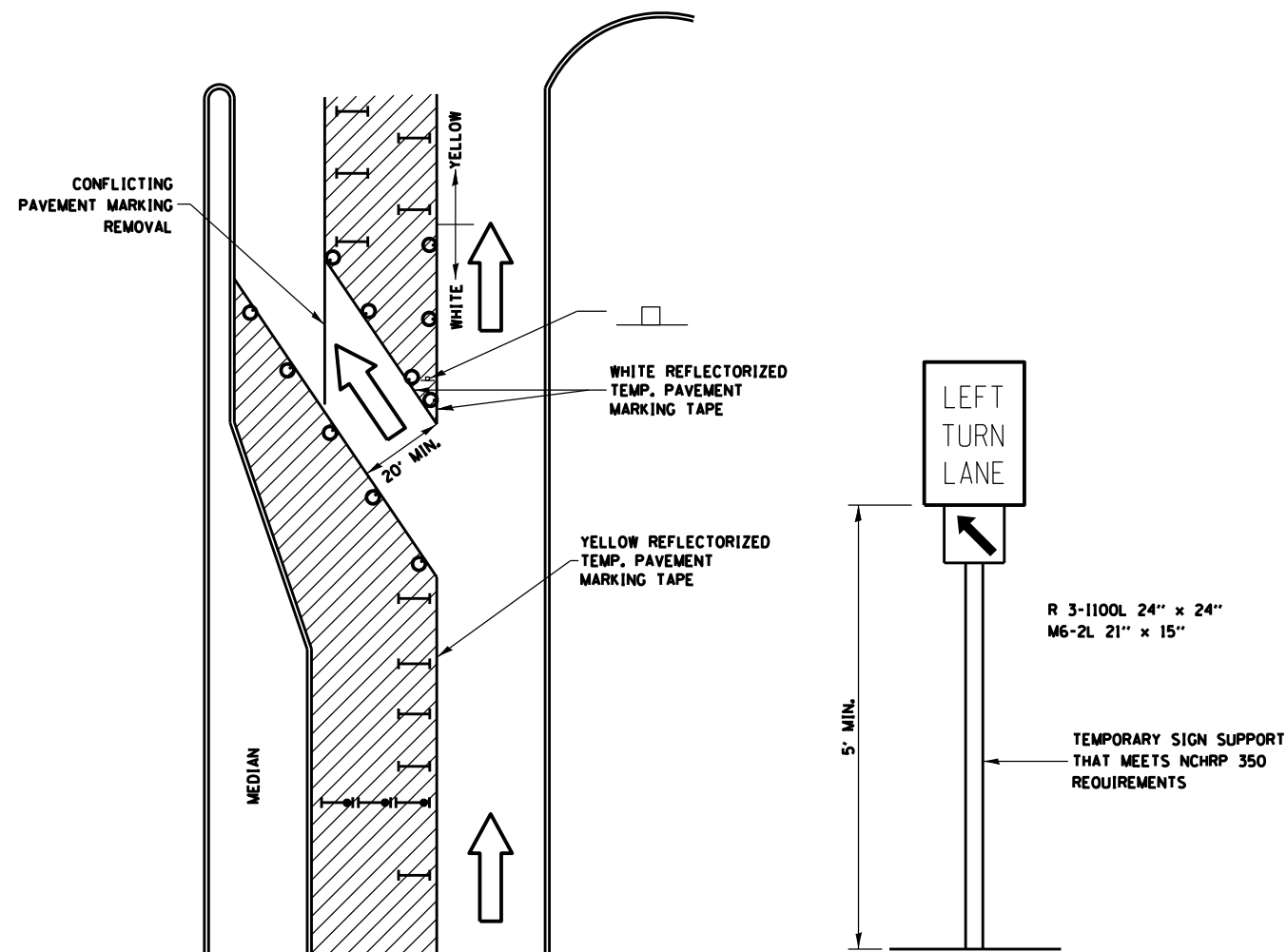
**NOTE:**  
CURB & GUTTER TRANSITION SHALL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR C&G



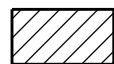
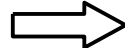
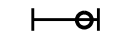

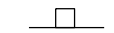
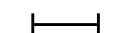
**WATER AND SEWER SEPARATION REQUIREMENTS - HORIZONTAL SEPARATION**

563-3

FILE NAME = D03306-SHT-DETAILS.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL DRAWINGS SHEETS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1"=1'	DRAWN - RAMIREZ, P	REVISED -					316	(116) R,T	BUREAU	221	161
	PLOT DATE = DECEMBER 2011	CHECKED - JOHNSON, B	REVISED -		SCALE: SHEET NO. 14 OF 18 SHEETS STA. 1625+49.62 TO STA. 295+14.27			CONTRACT NO. 66901				
		DATE - DECEMBER 2011	REVISED -		ILLINOIS FED. AID PROJECT							



**LEGEND**

-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE OR DRUM WITH FLASHING BURNING LIGHT
-  DRUM OR BARRICADE WITH STEADY BURN LIGHT
-  SIGN (SEE DETAIL)
-  TYPE I OR II CHECK BARRICADE WITH STEADY LIGHT BURN

**GENERAL NOTE:**

CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING THE DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28" IN HEIGHT.

STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS WILL BE MONODIRECTIONAL.

REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.

THIS APPLICATION ALSO APPLIEES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24" x 24" AND M6-2R 21" x 15" SHALL BE USED.

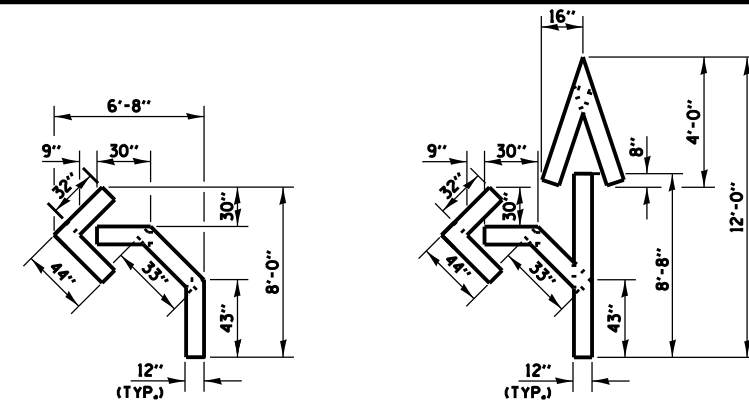
THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.

LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.

TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

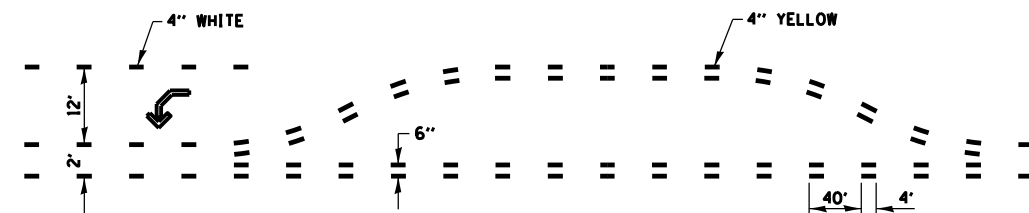
**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS  
(TO REMAIN OPEN TO TRAFFIC)**

701-7

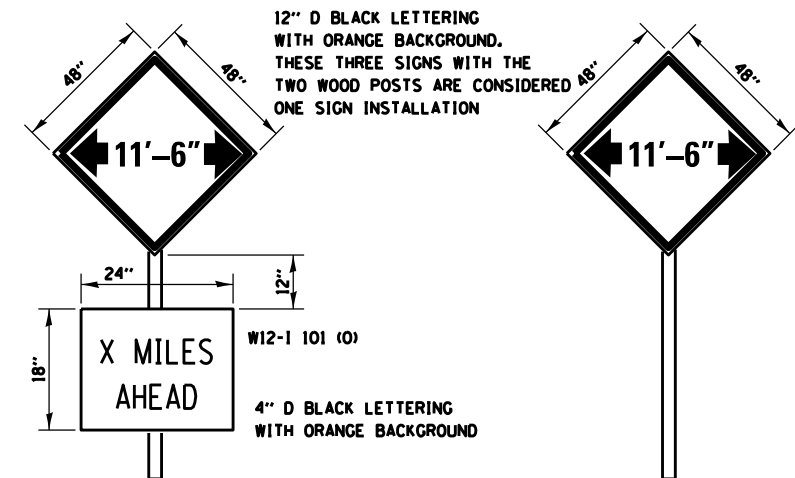


**QUANTITY**  
12" LINE = 16 LIN. FT.  
OR 4" LINE = 48 LIN. FT.

**QUANTITY**  
12" LINE = 29 LIN. FT.  
OR 4" LINE = 87 LIN. FT.



**SHORT-TERM PAVEMENT MARKING  
FOR MEDIANS AND ARROWS**



TO BE POST MOUNTED. SIX SIGN INSTALLATIONS REQUIRED. 2 NBL (ONE SOUTH OF I-80 EB RAMP, AND ONE SOUTH OF US 34 INTERSECTION), 2 SBL (ONE NORTH OF IL 92 AND ONE NEAR RED COVERED BRIDGE RD.), 2 ON THE I-80 ENTRANCE RAMP (EB AND WB).

THE ENGINEER WILL NOTIFY DISTRICT 3 BUREAU OF OPERATIONS 14 CALENDAR DAYS PRIOR TO INSTALLING ANY TRAFFIC CONTROL DEVICES THAT WILL RESTRICT THE PAVEMENT WIDTH.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE ENGINEER TO MEET THIS REQUIREMENT.

COST OF SUPPLYING, INSTALLING, MAINTAINING AND REMOVING WIDTH RESTRICTION SIGNS SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION PAY ITEMS.

**WIDTH RESTRICTION SIGNING DETAILS**

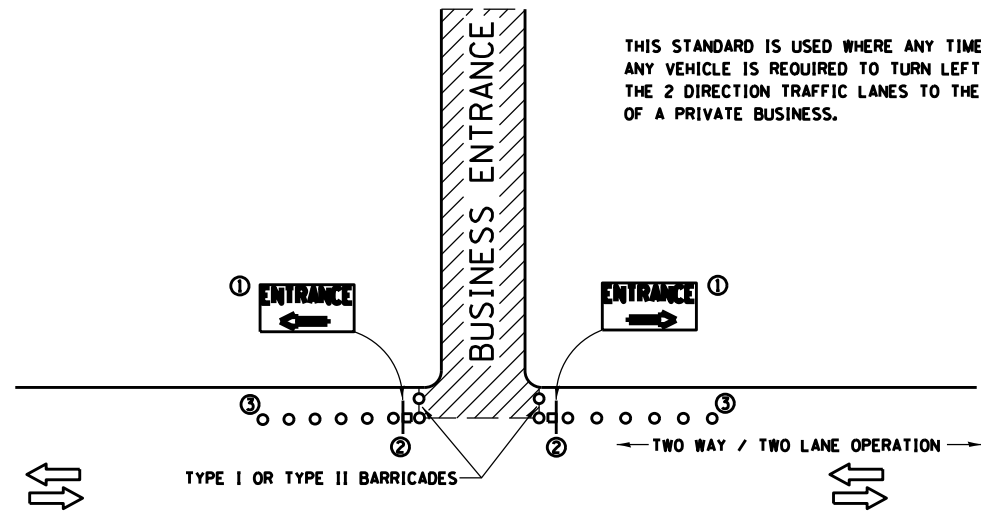
FILE NAME = D03306-SHT-DETAILS.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -
		DRAWN - RAMIREZ, P	REVISED -
	PLOT SCALE = 1"=1'	CHECKED - JOHNSON, B	REVISED -
	PLOT DATE = DECEMBER 2011	DATE - DECEMBER 2011	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION




DETAIL DRAWINGS SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(116) R,T	BUREAU	221	162
CONTRACT NO. 66901				
ILLINOIS FED. AID PROJECT				

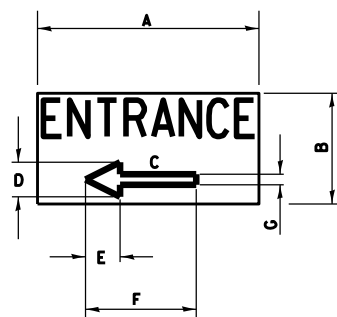
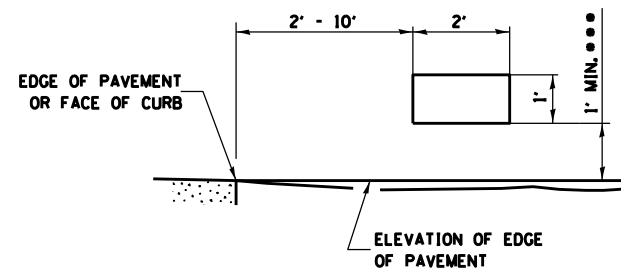
SCALE: SHEET NO. 15 OF 18 SHEETS STA. 1625+49.62 TO STA. 295+14.27



**SYMBOLS**

-  BUSINESS ENTRANCE ZONE
-  BARRICADE OR DRUM WITH FLASHING LIGHT
-  SIGN ON TEMPORARY SUPPORT

- ① REFER TO BUSINESS ENTRANCE SIGN TABLE FOR DIMENSIONS.
- ② SEE "SIGNS ON TEMPORARY SUPPORTS" DETAIL.
- ③ DRUMS



**BUSINESS ENTRANCE SIGN**

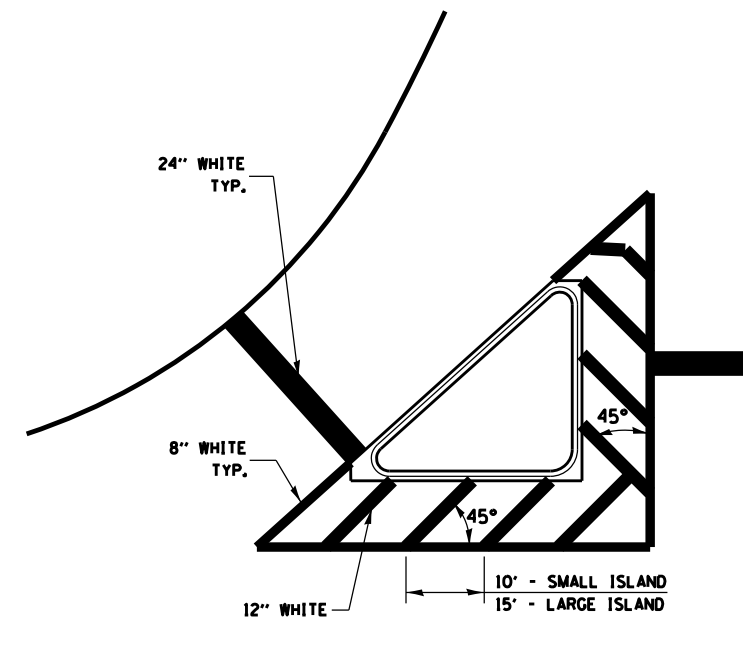
4" BLUE LETTERING NON-REFLECTIVE WITH WHITE REFLECTIVE BACKGROUND

SIGN SIZE	DIMENSIONS						
	A	B	C	D	E	F	G
24 X 12	24	12	8.25	4.75	3.75	12	2.25

SIGNS FOR BUSINESSES ABUTTING THE WORK ZONE, DELINEATING THE WAY THROUGH THE BARRICADES TO RESPECTIVE ENTRANCES.

**BUSINESS ABUTTING WORK ZONE ENTRANCE SIGN**

**701-9**



**TYPICAL ISLAND**

**780-21**

FILE NAME = D03306-SHT-DETAILS.DGN

USER NAME = RAMIREZ, P  
 PLOT SCALE = 1"=1'  
 PLOT DATE = DECEMBER 2011

DESIGNED - JOHNSON, B  
 DRAWN - RAMIREZ, P  
 CHECKED - JOHNSON, B  
 DATE - DECEMBER 2011

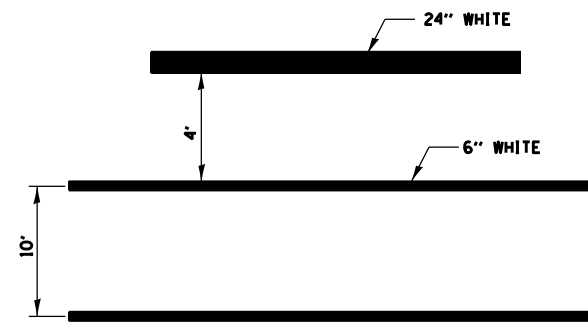
REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

DETAIL DRAWINGS SHEETS

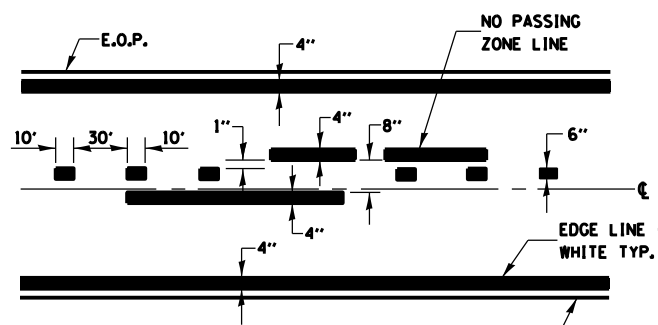
SCALE: SHEET NO. 16 OF 18 SHEETS STA. 1625+49.62 TO STA. 295+14.27

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(116) R,T	BUREAU	221	163
CONTRACT NO. 66901				
ILLINOIS FED. AID PROJECT				



**TYPICAL SPACING DETAIL FOR CROSSWALKS AND STOP BARS**

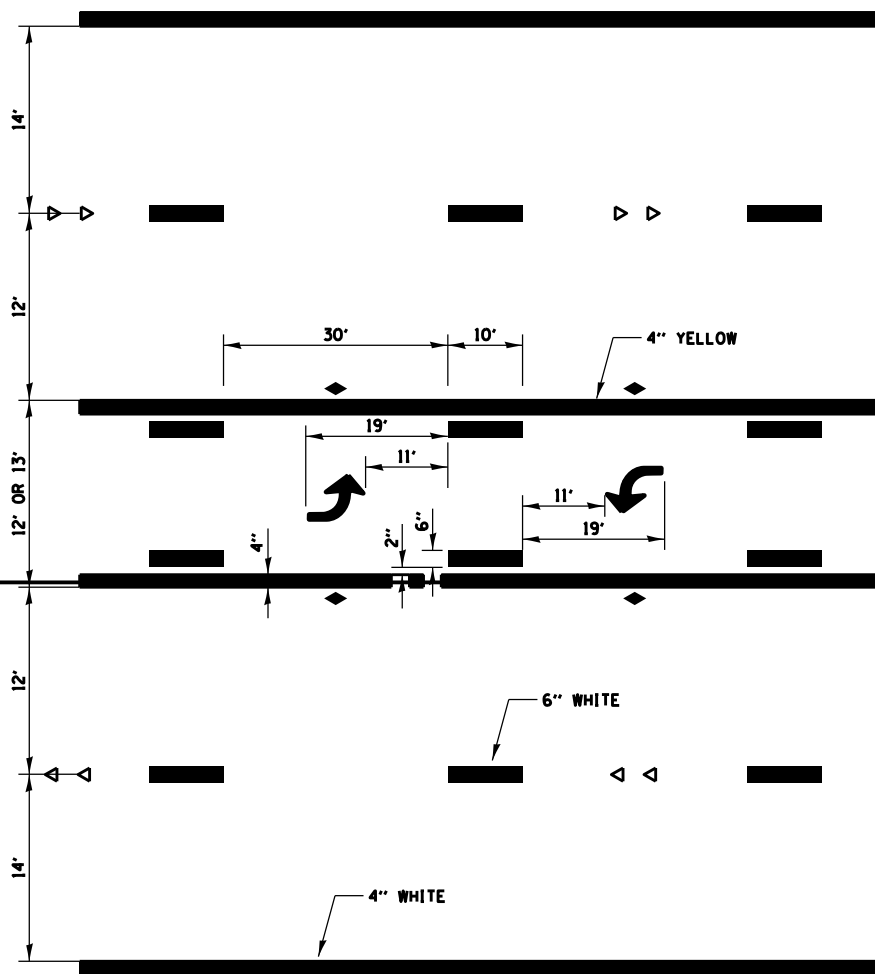
**780-3  
(MOD)**



NO PASSING ZONE LINES - YELLOW

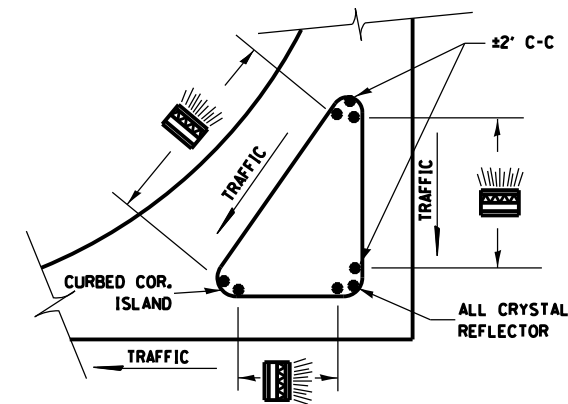
(SEE TYPICAL SECTIONS)

**PAVEMENT MARKING 780-8**



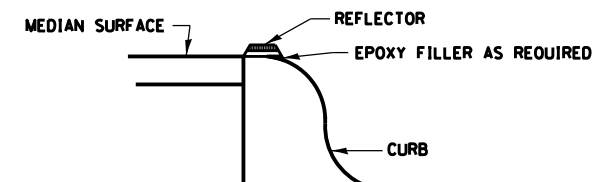
**TYPICAL APPLICATION TWO WAY LEFT TURN LANE (TWLTL)**

**780-2**



**PLAN**

PAYMENT FOR PRISMATIC REFLECTORS SHALL BE INCLUDED IN THE COST OF ISLAND INSTALLATION

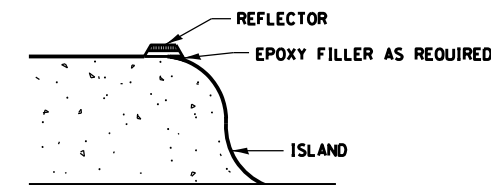


**SECTION VIEW**

**NOTES**

1. PRISMATIC REFLECTORS SHALL BE MONO-DIRECTIONAL AND POSITIONED SO THAT THE REFLECTIVE FACE IS FACING THE APPROACHING TRAFFIC.
2. PRISMATIC REFLECTORS SHALL BE SECURED IN PLACE WITH AN EPOXY ADHESIVE.
3. PRISMATIC REFLECTORS SHALL BE EITHER AMBER OR CRYSTAL IN COLOR.

**OPTION 1**



**SECTION VIEW**

**NOTES**

1. PRISMATIC REFLECTORS SHALL BE MONO-DIRECTIONAL AND POSITIONED SO THAT THE REFLECTIVE FACE IS FACING THE APPROACHING TRAFFIC.
2. PRISMATIC REFLECTORS SHALL BE SECURED IN PLACE WITH AN EPOXY ADHESIVE.
3. PRISMATIC REFLECTORS SHALL BE EITHER AMBER OR CRYSTAL IN COLOR.

**OPTION 2**

**PRISMATIC REFLECTORS**

**782-2  
MOD**

FILE NAME = D03306-SHT-DETAILS.DGN

USER NAME = RAMIREZ, P

DESIGNED - JOHNSON, B

REVISED -

DRAWN - RAMIREZ, P

REVISED -

CHECKED - JOHNSON, B

REVISED -

DATE - DECEMBER 2011

REVISED -

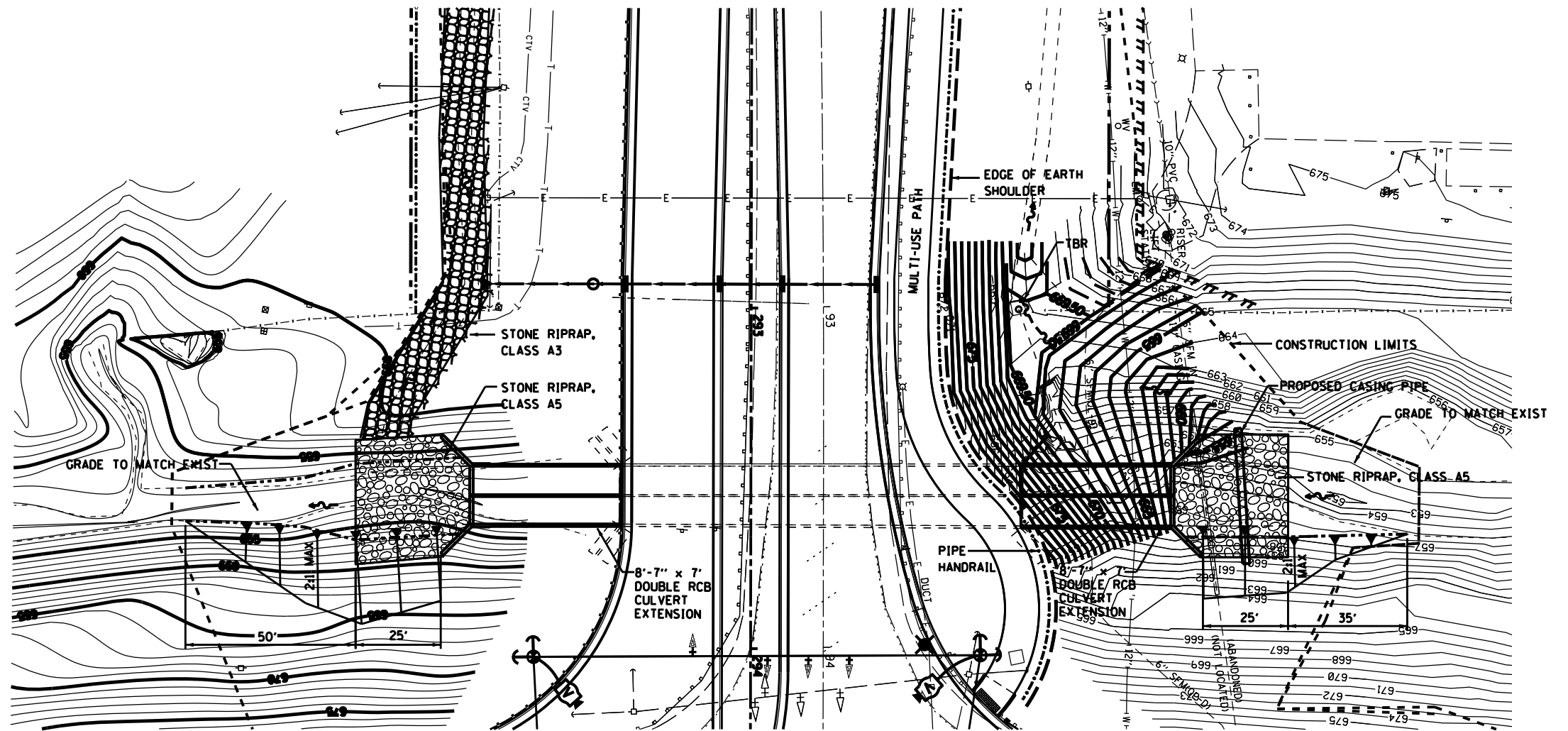
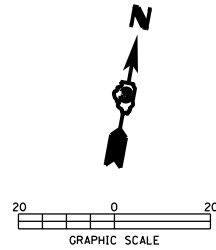
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DETAIL DRAWINGS SHEETS

SCALE: SHEET NO. 17 OF 18 SHEETS STA. 1625+49.62 TO STA. 295+14.27

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(116) R,T	BUREAU	221	164
CONTRACT NO. 66901				
ILLINOIS FED. AID PROJECT				





**SPECIAL GRADING AND RIPRAP AT 8'-7" x 7' DOUBLE RCB CULVERT EXTENSION**

FILE NAME = D03306-SHT-DETAILS.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL DRAWINGS SHEETS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 1"=20'	DRAWN - RAMIREZ, P	REVISED -		SCALE:	SHEET NO. 18 OF 18 SHEETS	STA. 1625+49.62 TO STA. 295+14.27	316	(116) R,T	BUREAU	221	165
PLOT DATE = DECEMBER 2011	DATE - DECEMBER 2011	CHECKED - JOHNSON, B	REVISED -				CONTRACT NO. 66901					
		DATE - DECEMBER 2011	REVISED -				ILLINOIS FED. AID PROJECT					



The Subsurface Utility Engineering Company  
449 Monroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

© So-Deep, Inc. 1988, 1994

Corporate Headquarters:  
8397 Euclid Avenue  
Manassas Park, VA 20111  
(703) 361-6005

Control # SILC153  
Test Hole # 1  
Plan Scale 1"=20'  
Sheet # 2  
Proposed GRADE CHANGE  
Date SEPTEMBER 26, 2009

City, County, State CITY OF PRINCETON, IL  
Gen. Loc. IL 26 JUST S. OF RED COVERED BRIDGE ROAD  
Recorded Size/Material/Type 3" UNK. TYPE GAS LINE  
Foreman/Truck#/Form By E. CARROLL / 219 / R. MOONEY

Condition of paving prior to work  
NO PAVING

B.M. 1 Elev. = 694.45'  
is GIVEN  
B.M. 2 Elev. = 695.07'  
is GIVEN

Description: (BM #104) TOP COTTON PICKER SPINDLE @  
BASE OF U.P., 42.35' LT OF PROPOSED CL STA 1632+20.56,  
IL 26  
Description: (TR. #500) TOP 80d NAIL FOUND, 33.8' LT OF  
PROPOSED CL STA 1627+46.95, IL 26

So-Deep will attempt to use the  
BM#1 most applicable to your  
design. If however, BM#s differ by  
more than .05', resulting differences  
could cause design conflicts.

Benchmarks check BY 0.03'  
Elevations are referenced to B.M.#1

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole.

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed YELLOW

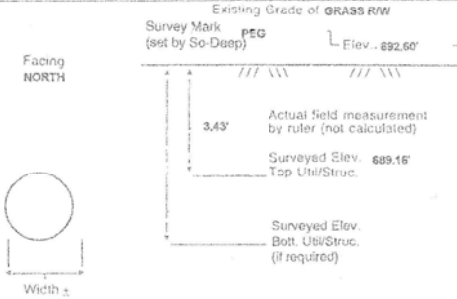
Soil Type MOIST BROWN

Field Condition IN GRASS RW

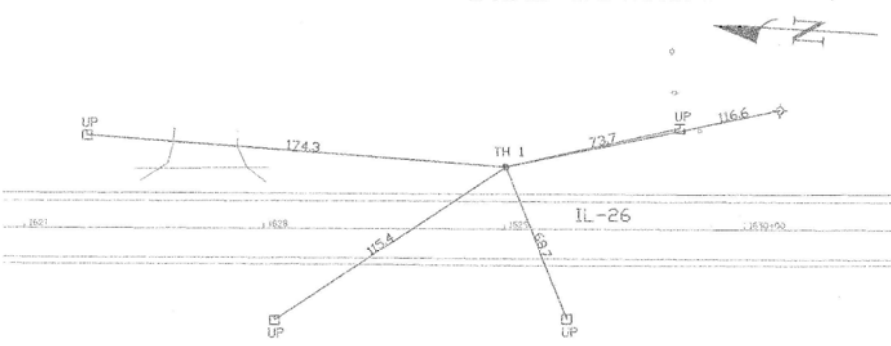
T.H. tied to PEG

3 3/4" WSTL. GAS LINE  
Size/Material/Type  
Portion of pipe exposed  
for O.D. measurement  
FULL

Remarks: NONE



TH DUG 26.0'± LT OF PROPOSED CL STA 1629+00.44, IL 26



RW = Rights of Way  
N.T.S. = Not to Scale  
PCC = Precast Concrete  
COND. = Conduit  
CONC. = Concrete  
O.D. = Outside Diameter  
C.I. = Cast Iron  
D.I. = Ductile Iron  
RPC = Rough Pour Concrete  
CL = Centerline

T.C. = Terra Cotta  
PLAS. = Plastic  
BL = Base Line  
ELEC. = Electric  
TELE. = Telephone  
T.H. = Test Hole  
SW = Sidewalk  
DW = Driveway  
BM = Benchmark  
C.B. = Catch Basin  
GV = Gas Valve

26" = 1"  
16" = 2"  
12" = 3"  
10" = 4"  
8" = 5"  
6" = 6"  
5" = 7"  
4" = 8"  
3" = 9"  
2" = 10"  
1" = 11"

○ Sewer Manhole  
● Test Hole  
○ Fire Hydrant  
□ Pole  
□ Manhole  
△ T.S. = Traverse Station  
▽ Valve  
⊙ Water Meter  
⊙ Telephone Manhole  
⊙ Telephone Pedestal

TEST HOLE #1



The Subsurface Utility Engineering Company  
449 Monroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

© So-Deep, Inc. 1988, 1994

Corporate Headquarters:  
8397 Euclid Avenue  
Manassas Park, VA 20111  
(703) 361-6005

Control # SILC153  
Test Hole # 2  
Plan Scale 1"=20'  
Sheet # 2  
Proposed GRADE CHANGE  
Date SEPTEMBER 26, 2009

City, County, State CITY OF PRINCETON, IL  
Gen. Loc. IL 26 JUST S. OF RED COVERED BRIDGE ROAD  
Recorded Size/Material/Type 4" UNK. TYPE GAS LINE  
Foreman/Truck#/Form By E. CARROLL / 219 / R. MOONEY

Condition of paving prior to work  
NO PAVING

B.M. 1 Elev. = 694.45'  
is GIVEN  
B.M. 2 Elev. = 695.07'  
is GIVEN

Description: (BM #104) TOP COTTON PICKER SPINDLE @  
BASE OF U.P., 42.35' LT OF PROPOSED CL STA 1632+20.56,  
IL 26  
Description: (TR. #500) TOP 80d NAIL FOUND, 33.8' LT OF  
PROPOSED CL STA 1627+46.95, IL 26

So-Deep will attempt to use the  
BM#1 most applicable to your  
design. If however, BM#s differ by  
more than .05', resulting differences  
could cause design conflicts.

Benchmarks check BY 0.03'  
Elevations are referenced to B.M.#1

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole.

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed YELLOW

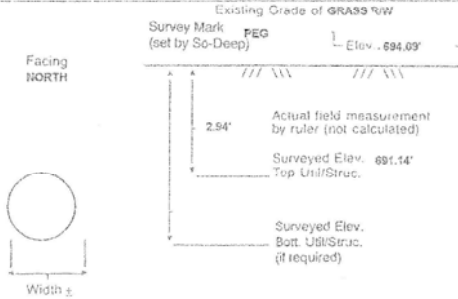
Soil Type MOIST BROWN

Field Condition IN GRASS RW

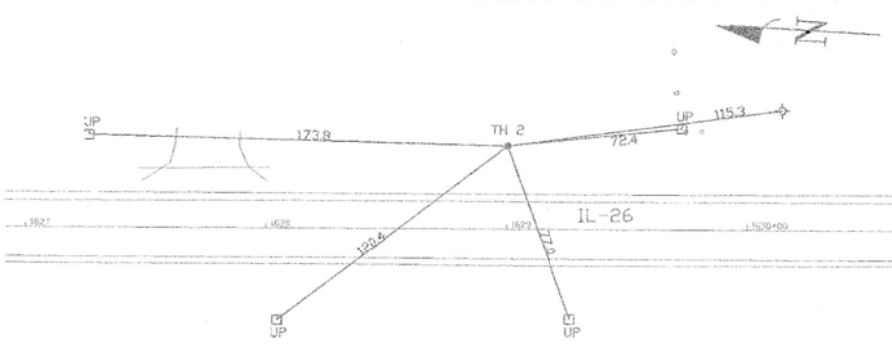
T.H. tied to PEG

4 3/4" COATED STL. GAS LINE  
Size/Material/Type  
Portion of pipe exposed  
for O.D. measurement  
FULL

Remarks: NONE



TH DUG 34.8'± LT OF PROPOSED CL STA 1629+00.34, IL 26



RW = Rights of Way  
N.T.S. = Not to Scale  
PCC = Precast Concrete  
COND. = Conduit  
CONC. = Concrete  
O.D. = Outside Diameter  
C.I. = Cast Iron  
D.I. = Ductile Iron  
RPC = Rough Pour Concrete  
CL = Centerline

T.C. = Terra Cotta  
PLAS. = Plastic  
BL = Base Line  
ELEC. = Electric  
TELE. = Telephone  
T.H. = Test Hole  
SW = Sidewalk  
DW = Driveway  
BM = Benchmark  
C.B. = Catch Basin  
GV = Gas Valve

26" = 1"  
16" = 2"  
12" = 3"  
10" = 4"  
8" = 5"  
6" = 6"  
5" = 7"  
4" = 8"  
3" = 9"  
2" = 10"  
1" = 11"

○ Sewer Manhole  
● Test Hole  
○ Fire Hydrant  
□ Pole  
□ Manhole  
△ T.S. = Traverse Station  
▽ Valve  
⊙ Water Meter  
⊙ Telephone Manhole  
⊙ Telephone Pedestal

TEST HOLE #2



The Subsurface Utility Engineering Company  
449 Monroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

© So-Deep, Inc. 1988, 1994

Corporate Headquarters:  
8397 Euclid Avenue  
Manassas Park, VA 20111  
(703) 361-6005

Control # SILC153  
Test Hole # 3  
Plan Scale 1"=20'  
Sheet # 2  
Proposed GRADE CHANGE  
Date SEPTEMBER 26, 2009

City, County, State CITY OF PRINCETON, IL  
Gen. Loc. IL 26 JUST S. OF RED COVERED BRIDGE ROAD  
Recorded Size/Material/Type UNK. SIZE & TYPE TELE. LINE  
Foreman/Truck#/Form By E. CARROLL / 219 / R. MOONEY

Condition of paving prior to work  
NO PAVING

B.M. 1 Elev. = 694.45'  
is GIVEN  
B.M. 2 Elev. = 695.07'  
is GIVEN

Description: (BM #104) TOP COTTON PICKER SPINDLE @  
BASE OF U.P., 42.35' LT OF PROPOSED CL STA 1632+20.56,  
IL 26  
Description: (TR. #500) TOP 80d NAIL FOUND, 33.8' LT OF  
PROPOSED CL STA 1627+46.95, IL 26

So-Deep will attempt to use the  
BM#1 most applicable to your  
design. If however, BM#s differ by  
more than .05', resulting differences  
could cause design conflicts.

Benchmarks check BY 0.03'  
Elevations are referenced to B.M.#1

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole.

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed ORANGE

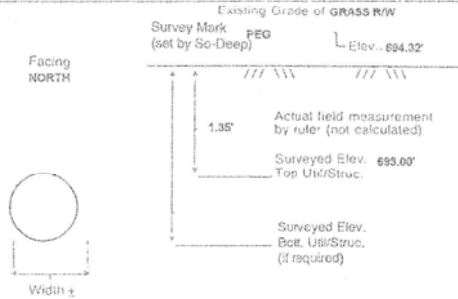
Soil Type MOIST BROWN

Field Condition IN GRASS RW

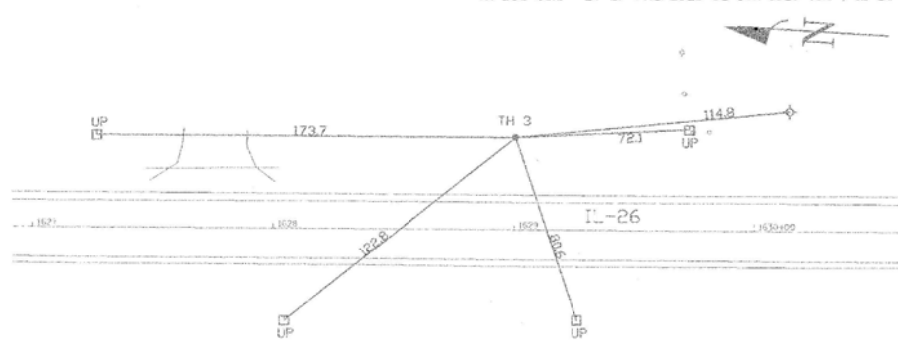
T.H. tied to PEG

1/2" TELE. CABLE  
Size/Material/Type  
Portion of pipe exposed  
for O.D. measurement  
FULL

Remarks: NONE



TH DUG 38.6'± LT OF PROPOSED CL STA 1629+00.34, IL 26



RW = Rights of Way  
N.T.S. = Not to Scale  
PCC = Precast Concrete  
COND. = Conduit  
CONC. = Concrete  
O.D. = Outside Diameter  
C.I. = Cast Iron  
D.I. = Ductile Iron  
RPC = Rough Pour Concrete  
CL = Centerline

T.C. = Terra Cotta  
PLAS. = Plastic  
BL = Base Line  
ELEC. = Electric  
TELE. = Telephone  
T.H. = Test Hole  
SW = Sidewalk  
DW = Driveway  
BM = Benchmark  
C.B. = Catch Basin  
GV = Gas Valve

26" = 1"  
16" = 2"  
12" = 3"  
10" = 4"  
8" = 5"  
6" = 6"  
5" = 7"  
4" = 8"  
3" = 9"  
2" = 10"  
1" = 11"

○ Sewer Manhole  
● Test Hole  
○ Fire Hydrant  
□ Pole  
□ Manhole  
△ T.S. = Traverse Station  
▽ Valve  
⊙ Water Meter  
⊙ Telephone Manhole  
⊙ Telephone Pedestal

TEST HOLE #3

FILE NAME = D03306-SHT-SUE-TH.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUBSURFACE UTILITY ENGINEERING			F.A.P. RTE. = 316	SECTION = (116) R,T	COUNTY = BUREAU	TOTAL SHEETS = 221	SHEET NO. = 166
		DRAWN - RAMIREZ, P	REVISED -		TEST HOLES SHEETS							
		CHECKED - JOHNSON, B	REVISED -		SCALE:	SHEET NO. 1 OF 20 SHEETS	STA. 1625+49.62 TO STA. 295+14.27					
		DATE = #DATE#	REVISED -					ILLINOIS FED. AID PROJECT				





The Subsurface Utility Engineering Company  
449 Monroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

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Corporate Headquarters:  
8397 Euclid Avenue  
Monroeville, PA 15111  
(703) 361-6005

Control # SILC163  
Test Hole # 7  
Plan Scale 1"=20'  
Sheet # 4  
Proposed GRADE CHANGE  
Date SEPTEMBER 16, 2009

City, County, State BUREAU CO., IL  
Gen. Loc. FRONT OF BLDG. #29, IL 26  
Recorded Size/Material/Type 4" STEEL (NICOR) GAS LINE  
Foreman/Truck/Form By J. CLINE / 219 / P. REYNOLDS

Condition of paving prior to work  
NO PAVING

B.M. 1 Elev. = 682.95'  
is GIVEN

Description: TOP OF MONUMENT DISK M192 FOUND, 21'± RT OF PROPOSED CL STA 1643+73±, IL 26

B.M. 2 Elev. = 683.62'  
is GIVEN

Description: TOP OF MAG NAIL FOUND, FOR TRAV. #110, 18'± LT OF PROPOSED CL STA 1643+16±, IL 26

Benchmarks check BY 0.05'  
Elevations are referenced to B.M.#1

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole.

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed YELLOW

Soil Type MOIST BROWN

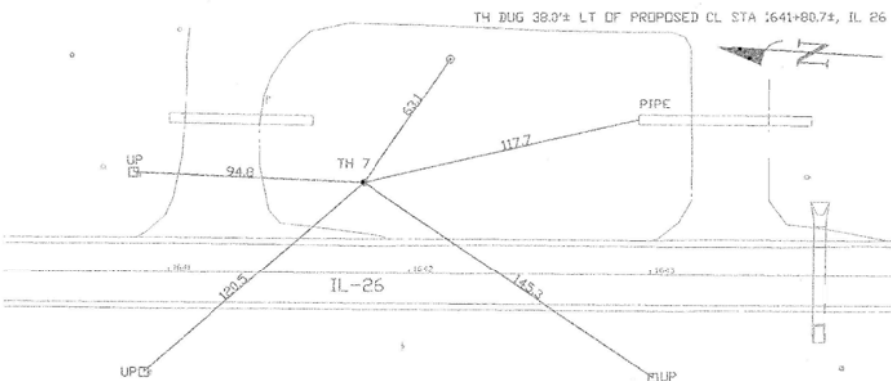
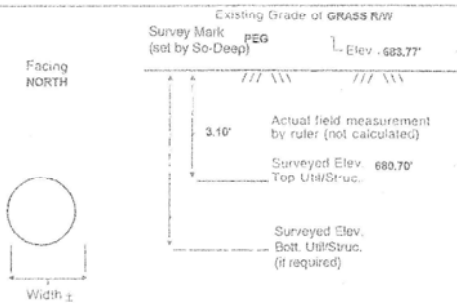
Field Condition GRASS R/W

T.H. tied to PEG

4 1/2" COATED STEEL GAS LINE  
Size/Material/Type  
Portion of pipe exposed for O.D. measurement:  
FULL

Remarks: NONE

So-Deep will attempt to use the B.M.#1 most applicable to your design. If however, B.M.s differ by more than .05', resulting differences could cause design conflicts.



- R/W = Rights of Way
- N.T.S. = Not to Scale
- BL = Not Shown on Plan
- PCC = Precast Concrete
- COND. = Conduit
- CONC. = Concrete
- O.D. = Outside Diameter
- C.I. = Cast Iron
- D.I. = Ductile Iron
- RPC = Rough Pore Concrete
- CL = Centerline
- T.C. = Terra Cotta
- PLAS. = Plastic
- BL = Base Line
- ELEC. = Electric
- TELE = Telephone
- T.H. = Test Hole
- SW = Sidewalk
- DW = Driveway
- BM = Benchmark
- C.B. = Catch Basin
- GV = Gas Valve
- SM = Sewer Manhole
- TH = Test Hole
- FH = Fire Hydrant
- Pole = Pole
- Fence Line = Fence Line
- Electric Manhole = Electric Manhole
- T.S. = Transverse Station
- Valve = Valve
- Water Meter = Water Meter
- Telephone Manhole = Telephone Manhole
- Telephone Pedestal = Telephone Pedestal

*David R. Cole*  
Performing out-of-sight work...with vision!<sup>SM</sup>  
Note: To eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

TEST HOLE #7



The Subsurface Utility Engineering Company  
449 Monroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

© So-Deep, Inc. 1988, 1994

Corporate Headquarters:  
8397 Euclid Avenue  
Monroeville, PA 15111  
(703) 361-6005

Control # SILC163  
Test Hole # 8  
Plan Scale 1"=20'  
Sheet # 4  
Proposed GRADE CHANGE  
Date SEPTEMBER 16, 2009

City, County, State BUREAU CO., IL  
Gen. Loc. FRONT OF BLDG. #29, IL 26  
Recorded Size/Material/Type 12" D.I. (C.O.P.) WATER LINE  
Foreman/Truck/Form By J. CLINE / 219 / P. REYNOLDS

Condition of paving prior to work  
NO PAVING

B.M. 1 Elev. = 682.95'  
is GIVEN

Description: TOP OF MONUMENT DISK M192 FOUND, 21'± RT OF PROPOSED CL STA 1643+73±, IL 26

B.M. 2 Elev. = 683.62'  
is GIVEN

Description: TOP OF MAG NAIL FOUND, FOR TRAV. #110, 18'± LT OF PROPOSED CL STA 1643+16±, IL 26

Benchmarks check BY 0.05'  
Elevations are referenced to B.M.#1

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole.

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed BLUE

Soil Type MOIST BROWN

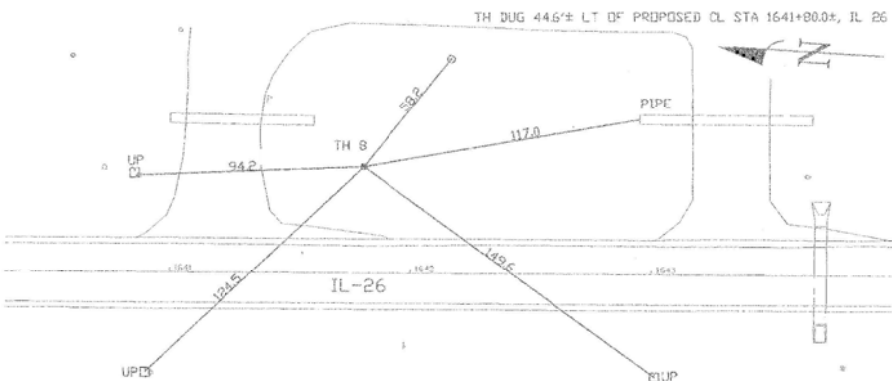
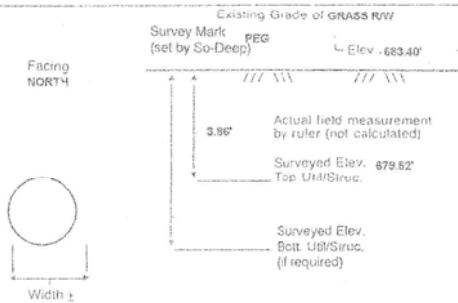
Field Condition GRASS R/W

T.H. tied to PEG

12 3/4" D.I. WATER LINE  
Size/Material/Type  
Portion of pipe exposed for O.D. measurement:  
FULL

Remarks: NONE

So-Deep will attempt to use the B.M.#1 most applicable to your design. If however, B.M.s differ by more than .05', resulting differences could cause design conflicts.



- R/W = Rights of Way
- N.T.S. = Not to Scale
- BL = Not Shown on Plan
- PCC = Precast Concrete
- COND. = Conduit
- CONC. = Concrete
- O.D. = Outside Diameter
- C.I. = Cast Iron
- D.I. = Ductile Iron
- RPC = Rough Pore Concrete
- CL = Centerline
- T.C. = Terra Cotta
- PLAS. = Plastic
- BL = Base Line
- ELEC. = Electric
- TELE = Telephone
- T.H. = Test Hole
- SW = Sidewalk
- DW = Driveway
- BM = Benchmark
- C.B. = Catch Basin
- GV = Gas Valve
- SM = Sewer Manhole
- TH = Test Hole
- FH = Fire Hydrant
- Pole = Pole
- Fence Line = Fence Line
- Electric Manhole = Electric Manhole
- T.S. = Transverse Station
- Valve = Valve
- Water Meter = Water Meter
- Telephone Manhole = Telephone Manhole
- Telephone Pedestal = Telephone Pedestal

*David R. Cole*  
Performing out-of-sight work...with vision!<sup>SM</sup>  
Note: To eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

TEST HOLE #8



The Subsurface Utility Engineering Company  
449 Monroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

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Corporate Headquarters:  
8397 Euclid Avenue  
Monroeville, PA 15111  
(703) 361-6005

Control # SILC163  
Test Hole # 9  
Plan Scale 1"=20'  
Sheet # 4  
Proposed STORM X-ING  
Date SEPTEMBER 16, 2009

City, County, State BUREAU CO., IL  
Gen. Loc. S. ENTRANCE TO BLDG. #29, IL 26  
Recorded Size/Material/Type 4" STEEL (NICOR) GAS LINE  
Foreman/Truck/Form By J. CLINE / 219 / P. REYNOLDS

Condition of paving prior to work  
NO PAVING

B.M. 1 Elev. = 682.95'  
is GIVEN

Description: TOP OF MONUMENT DISK M192 FOUND, 21'± RT OF PROPOSED CL STA 1643+73±, IL 26

B.M. 2 Elev. = 683.62'  
is GIVEN

Description: TOP OF MAG NAIL FOUND, FOR TRAV. #110, 18'± LT OF PROPOSED CL STA 1643+16±, IL 26

Benchmarks check BY 0.05'  
Elevations are referenced to B.M.#1

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole.

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed YELLOW

Soil Type MOIST BROWN

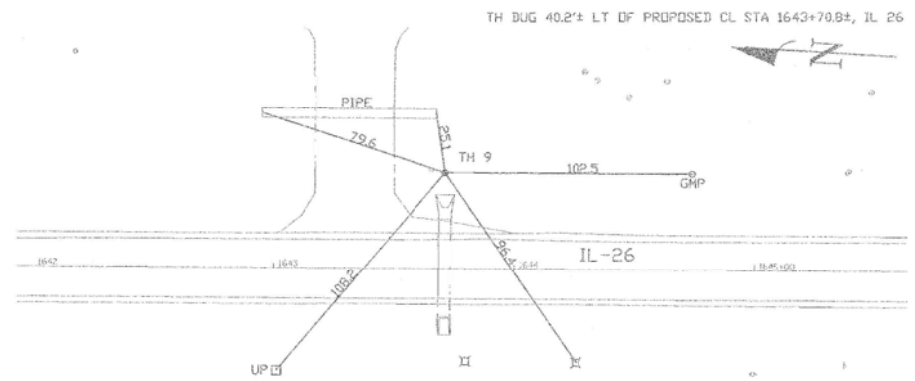
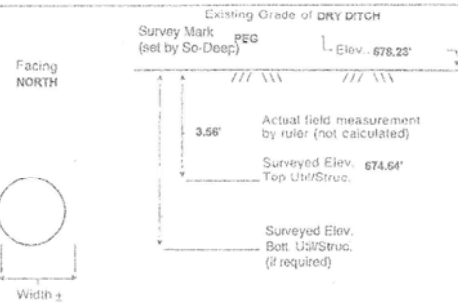
Field Condition DRY DRAINAGE DITCH

T.H. tied to PEG

4 1/2" COATED STEEL GAS LINE  
Size/Material/Type  
Portion of pipe exposed for O.D. measurement:  
FULL

Remarks: NONE

So-Deep will attempt to use the B.M.#1 most applicable to your design. If however, B.M.s differ by more than .05', resulting differences could cause design conflicts.

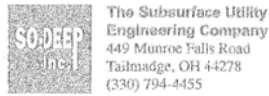


- R/W = Rights of Way
- N.T.S. = Not to Scale
- BL = Not Shown on Plan
- PCC = Precast Concrete
- COND. = Conduit
- CONC. = Concrete
- O.D. = Outside Diameter
- C.I. = Cast Iron
- D.I. = Ductile Iron
- RPC = Rough Pore Concrete
- CL = Centerline
- T.C. = Terra Cotta
- PLAS. = Plastic
- BL = Base Line
- ELEC. = Electric
- TELE = Telephone
- T.H. = Test Hole
- SW = Sidewalk
- DW = Driveway
- BM = Benchmark
- C.B. = Catch Basin
- GV = Gas Valve
- SM = Sewer Manhole
- TH = Test Hole
- FH = Fire Hydrant
- Pole = Pole
- Fence Line = Fence Line
- Electric Manhole = Electric Manhole
- T.S. = Transverse Station
- Valve = Valve
- Water Meter = Water Meter
- Telephone Manhole = Telephone Manhole
- Telephone Pedestal = Telephone Pedestal

*David R. Cole*  
Performing out-of-sight work...with vision!<sup>SM</sup>  
Note: To eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

TEST HOLE #9

FILE NAME = D03306-SHT-SUE-TH.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUBSURFACE UTILITY ENGINEERING TEST HOLES SHEETS	F.A.P. RTE. = 316	SECTION = (116) R,T	COUNTY = BUREAU	TOTAL SHEETS = 221	SHEET NO. = 168
PLOT SCALE = 1"=1'	CHECKED - JOHNSON, B	REVISED -	SCALE =			SHEET NO. 3 OF 20 SHEETS	STA. 1625+49.62 TO STA. 295+14.27	ILLINOIS FED. AID PROJECT		
PLOT DATE = \$DATE\$	DATE - \$DATE\$	REVISED -	CONTRACT NO. 66901							



The Subsurface Utility Engineering Company  
449 Monroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

© So-Deep, Inc. 1988, 1994

Corporate Headquarters:  
8397 Euclid Avenue  
Manassas Park, VA 20111  
(703) 361-6005

Control # SILC153  
Test Hole # 10  
Plan Scale 1"=20'  
Sheet # 4  
Proposed STORM X-BIG  
Date SEPTEMBER 16, 2009

City, County, State BUREAU CO., IL  
Gen. Loc. W. SIDE IL 26 @ ENTRANCE TO BLDG. #29  
Recorded Size/Material/Type UNK. SIZE (VERIZON) TELE. CABLE  
Foreman/Truck#/Form By J. CLINE / 219 / P. REYNOLDS

Condition of paving prior to work  
NO PAVING

B.M. 1 Elev. = 692.95'  
is GIVEN  
Description: TOP OF MONUMENT DISK M192 FOUND, 21 1/2' RT OF PROPOSED CL STA 1643+73.2, IL 26

B.M. 2 Elev. = 693.62'  
is GIVEN  
Description: TOP OF MAG NAIL FOUND, FOR TRAV. #110, 10' LT OF PROPOSED CL STA 1643+16.2, IL 26

So-Deep will attempt to use the BM# most applicable to your design. If however, BM# differ by more than .05', resulting differences could cause design conflicts.

Benchmarks check BY 0.05'  
Elevations are referenced to B.M.#1

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole.

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed ORANGE

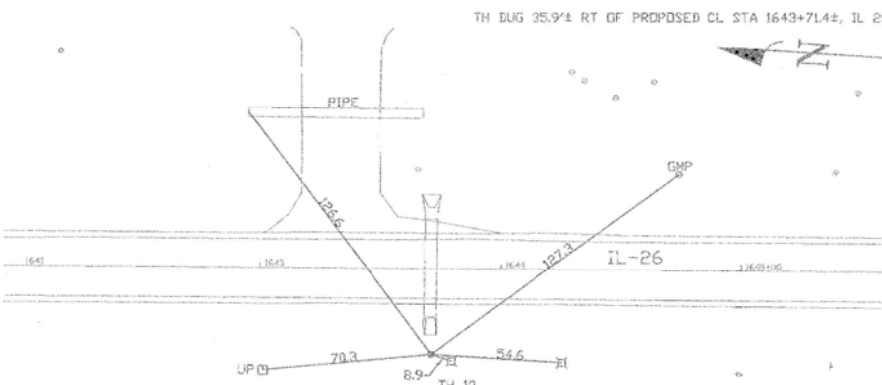
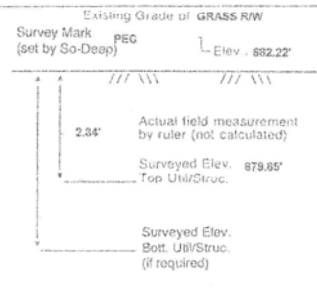
Soil Type MOIST BROWN

Field Condition GRASS R/W

T.H. tied to PEG

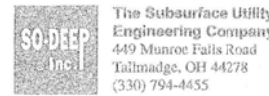
(1) 1 1/4" (VERIZON) TELE. CABLE  
Size/Material/Type  
Portion of pipe exposed for O.D. measurement:  
FULL

Remarks: NONE



- |                           |                    |           |                           |
|---------------------------|--------------------|-----------|---------------------------|
| R/W = Rights of Way       | T.C. = Terra Cotta | 36" = 1"  | ○ Sewer Manhole           |
| N.T.S. = Not to Scale     | PLAS. = Plastic    | 16" = 2"  | ○ Test Hole               |
| # = Not Shown on Plan     | BL = Base Line     | 20" = 3"  | ○ Fire Hydrant            |
| PCC = Precast Concrete    | ELEC. = Electric   | 30" = 4"  | ○ Pole                    |
| COND. = Conduit           | TELE. = Telephone  | 42" = 5"  | --- Fence Line            |
| CONC. = Concrete          | T.H. = Test Hole   | 50" = 6"  | △ Electric Manhole        |
| O.D. = Outside Diameter   | SW = Sidewalk      | 58" = 7"  | △ T.S. = Traverse Station |
| C.I. = Cast Iron          | DW = Driveway      | 67" = 8"  | ○ Valve                   |
| D.I. = Ductile Iron       | BM = Benchmark     | 75" = 9"  | ○ Water Meter             |
| RPC = Rough Pour Concrete | C.B. = Catch Basin | 83" = 10" | ○ Telephone Manhole       |
| CL = Centerline           | GV = Gas Valve     | 92" = 11" | □ Telephone Pedestal      |

TEST HOLE #10



The Subsurface Utility Engineering Company  
449 Monroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

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Corporate Headquarters:  
8397 Euclid Avenue  
Manassas Park, VA 20111  
(703) 361-6005

Control # SILC153  
Test Hole # 11  
Plan Scale 1"=20'  
Sheet # 4  
Proposed RITCH LINE  
Date SEPTEMBER 16, 2009

City, County, State BUREAU CO., IL  
Gen. Loc. E. SIDE OF IL 26, N. OF PROGRESS DR.  
Recorded Size/Material/Type 24" WRAPPED STEEL (KINDER-MORGAN) GAS PIPE LINE  
Foreman/Truck#/Form By J. CLINE / 219 / P. REYNOLDS

Condition of paving prior to work  
NO PAVING

B.M. 1 Elev. = 682.95'  
is GIVEN  
Description: TOP OF MONUMENT DISK M192 FOUND, 21 1/2' RT OF PROPOSED CL STA 1643+73.2, IL 26

B.M. 2 Elev. = 683.62'  
is GIVEN  
Description: TOP OF MAG NAIL FOUND, FOR TRAV. #110, 10' LT OF PROPOSED CL STA 1643+16.2, IL 26

So-Deep will attempt to use the BM# most applicable to your design. If however, BM# differ by more than .05', resulting differences could cause design conflicts.

Benchmarks check BY 0.05'  
Elevations are referenced to B.M.#1

Recorded Size/Type of utility WAS FOUND

There WERE additional utilities in the test hole.

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed YELLOW

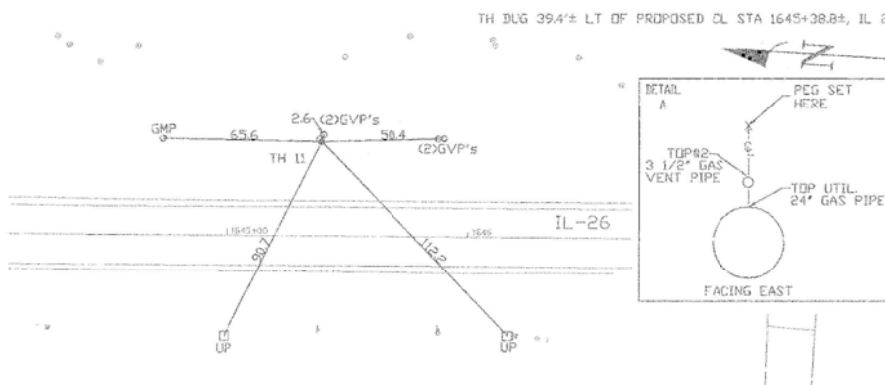
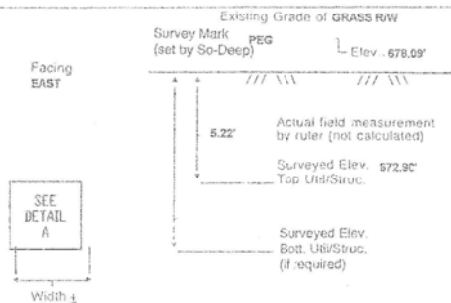
Soil Type MOIST BROWN

Field Condition GRASS R/W

T.H. tied to PEG

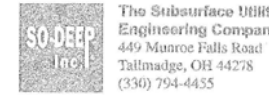
24" WRAPPED STEEL GAS PIPE LINE\*  
Size/Material/Type  
Portion of pipe exposed for O.D. measurement:  
FULL

Remarks: \*CREW ALSO FOUND A 3 1/2" COATED STEEL GAS VENT PIPE RUNNING ABOVE & PARALLEL TO THE 24" GAS LINE.



- |                           |                    |           |                           |
|---------------------------|--------------------|-----------|---------------------------|
| R/W = Rights of Way       | T.C. = Terra Cotta | 36" = 1"  | ○ Sewer Manhole           |
| N.T.S. = Not to Scale     | PLAS. = Plastic    | 16" = 2"  | ○ Test Hole               |
| # = Not Shown on Plan     | BL = Base Line     | 20" = 3"  | ○ Fire Hydrant            |
| PCC = Precast Concrete    | ELEC. = Electric   | 30" = 4"  | ○ Pole                    |
| COND. = Conduit           | TELE. = Telephone  | 42" = 5"  | --- Fence Line            |
| CONC. = Concrete          | T.H. = Test Hole   | 50" = 6"  | △ Electric Manhole        |
| O.D. = Outside Diameter   | SW = Sidewalk      | 58" = 7"  | △ T.S. = Traverse Station |
| C.I. = Cast Iron          | DW = Driveway      | 67" = 8"  | ○ Valve                   |
| D.I. = Ductile Iron       | BM = Benchmark     | 75" = 9"  | ○ Water Meter             |
| RPC = Rough Pour Concrete | C.B. = Catch Basin | 83" = 10" | ○ Telephone Manhole       |
| CL = Centerline           | GV = Gas Valve     | 92" = 11" | □ Telephone Pedestal      |

TEST HOLE #11



The Subsurface Utility Engineering Company  
449 Monroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

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Corporate Headquarters:  
8397 Euclid Avenue  
Manassas Park, VA 20111  
(703) 361-6005

Control # SILC153  
Test Hole # 12  
Plan Scale 1"=20'  
Sheet # 4  
Proposed DITCH LINE  
Date SEPTEMBER 16, 2009

City, County, State BUREAU CO., IL  
Gen. Loc. W. SIDE OF IL 26, N. OF PROGRESS DR.  
Recorded Size/Material/Type 24" WRAPPED STEEL (KINDER-MORGAN) GAS PIPE LINE  
Foreman/Truck#/Form By J. CLINE / 219 / P. REYNOLDS

Condition of paving prior to work  
NO PAVING

B.M. 1 Elev. = 682.95'  
is GIVEN  
Description: TOP OF MONUMENT DISK M192 FOUND, 21 1/2' RT OF PROPOSED CL STA 1643+73.2, IL 26

B.M. 2 Elev. = 683.62'  
is GIVEN  
Description: TOP OF MAG NAIL FOUND, FOR TRAV. #110, 10' LT OF PROPOSED CL STA 1643+16.2, IL 26

So-Deep will attempt to use the BM# most applicable to your design. If however, BM# differ by more than .05', resulting differences could cause design conflicts.

Benchmarks check BY 0.05'  
Elevations are referenced to B.M.#1

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole.

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed YELLOW

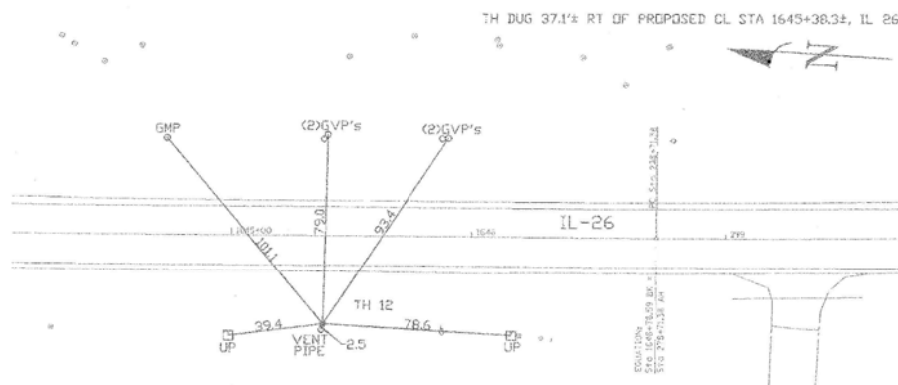
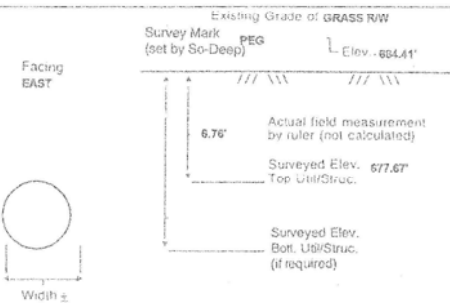
Soil Type MOIST BROWN

Field Condition GRASS R/W

T.H. tied to PEG

28" COATED STEEL CASING PIPE\*  
Size/Material/Type  
Portion of pipe exposed for O.D. measurement:  
FULL

Remarks: \*THE 28" COATED STEEL PIPE SERVES AS A CASING FOR THE 24" WRAPPED STEEL GAS PIPE LINE.



- |                           |                    |           |                           |
|---------------------------|--------------------|-----------|---------------------------|
| R/W = Rights of Way       | T.C. = Terra Cotta | 36" = 1"  | ○ Sewer Manhole           |
| N.T.S. = Not to Scale     | PLAS. = Plastic    | 16" = 2"  | ○ Test Hole               |
| # = Not Shown on Plan     | BL = Base Line     | 20" = 3"  | ○ Fire Hydrant            |
| PCC = Precast Concrete    | ELEC. = Electric   | 30" = 4"  | ○ Pole                    |
| COND. = Conduit           | TELE. = Telephone  | 42" = 5"  | --- Fence Line            |
| CONC. = Concrete          | T.H. = Test Hole   | 50" = 6"  | △ Electric Manhole        |
| O.D. = Outside Diameter   | SW = Sidewalk      | 58" = 7"  | △ T.S. = Traverse Station |
| C.I. = Cast Iron          | DW = Driveway      | 67" = 8"  | ○ Valve                   |
| D.I. = Ductile Iron       | BM = Benchmark     | 75" = 9"  | ○ Water Meter             |
| RPC = Rough Pour Concrete | C.B. = Catch Basin | 83" = 10" | ○ Telephone Manhole       |
| CL = Centerline           | GV = Gas Valve     | 92" = 11" | □ Telephone Pedestal      |

TEST HOLE #12

FILE NAME = D03306-SHT-SUE-TH.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUBSURFACE UTILITY ENGINEERING			F.A.P. RTE. = 316	SECTION = (116) R,T	COUNTY = BUREAU	TOTAL SHEETS = 221	SHEET NO. = 169
		DRAWN - RAMIREZ, P	REVISED -		TEST HOLES SHEETS			CONTRACT NO. 66901				
		CHECKED - JOHNSON, B	REVISED -		SCALE:	SHEET NO. 4 OF 20 SHEETS	STA. 1625+49.62 TO STA. 295+14.27	ILLINOIS FED. AID PROJECT				
		DATE = \$DATE\$	REVISED -									



The Subsurface Utility Engineering Company  
449 Monroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

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Corporate Headquarters:  
8397 Euclid Avenue  
Monroeville, PA 15111  
(724) 361-6005

Control # SILC153  
Test Hole # 13  
Plan Scale 1"=20'  
Sheet # 4  
Proposed DITCH LINE  
Date SEPTEMBER 16, 2009

City, County, State BUREAU CO., IL  
Gen. Loc. E. SIDE OF IL 26, N. OF PROGRESS DR.  
Recorded Size/Material/Type 36" WRAPPED STEEL (KINDER-MORGAN) GAS PIPE LINE  
Foreman/Truck/Form By J. CLINE / 219 / P. REYNOLDS

Condition of paving prior to work NO PAVING

B.M. 1 Elev. = 682.95'  
is GIVEN Description: TOP OF MONUMENT DISK M192 FOUND, 21'± RT OF PROPOSED CL STA 1643+73.6, IL 26

B.M. 2 Elev. = 683.62'  
is GIVEN Description: TOP OF MAG NAIL FOUND, FOR TRAV. #110, 16'± LT OF PROPOSED CL STA 1643+16.1, IL 26

So-Deep will attempt to use the B.M.#1 most applicable to your design. If however, B.M.#1 differ by more than .05', resulting differences could cause design conflicts.

Benchmarks check BY 0.05'  
Elevations are referenced to B.M.#1

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole.

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed YELLOW

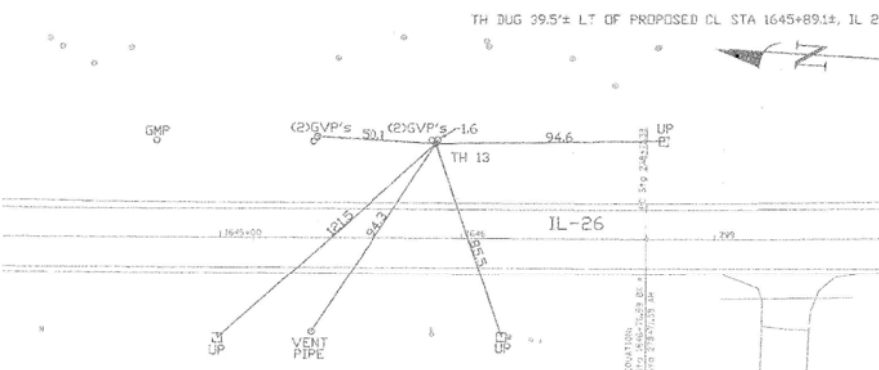
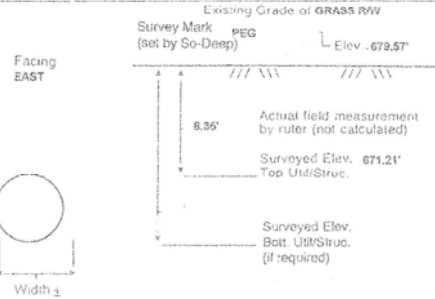
Soil Type MOIST BROWN

Field Condition GRASS RW

T.H. tied to PEG

42" COATED STEEL CASING PIPE \*  
Size/Material/Type  
Portion of pipe exposed for O.D. measurement: FULL

Remarks: \* THE 42" COATED STEEL PIPE SERVES AS A CASING FOR THE 36" WRAPPED STEEL GAS PIPE LINE.



**Legend:**  
 RW = Rights of Way  
 N.T.S. = Not to Scale  
 PCC = Precast Concrete  
 CONC. = Concrete  
 O.D. = Outside Diameter  
 C.I. = Cast Iron  
 D.I. = Ductile Iron  
 RPC = Rough Pour Concrete  
 CL = Centerline  
 T.C. = Terra Cotta  
 PLAS. = Plastic  
 BL = Base Line  
 ELEC. = Electric  
 TELE = Telephone  
 T.H. = Test Hole  
 SW = Sidewalk  
 DW = Driveway  
 BM = Benchmark  
 C.B. = Catch Basin  
 GV = Gas Valve  
 SF = Sewer Manhole  
 TH = Test Hole  
 FH = Fire Hydrant  
 P = Pole  
 F = Fence Line  
 EM = Electric Manhole  
 T.S. = Traverse Station  
 V = Valve  
 WM = Water Meter  
 TM = Telephone Manhole  
 TP = Telephone Pedestal

TEST HOLE #13



The Subsurface Utility Engineering Company  
449 Monroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

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Corporate Headquarters:  
8397 Euclid Avenue  
Monroeville, PA 15111  
(724) 361-6005

Control # SILC153  
Test Hole # 14  
Plan Scale 1"=20'  
Sheet # 4  
Proposed DITCH LINE  
Date SEPTEMBER 16, 2009

City, County, State BUREAU CO., IL  
Gen. Loc. W. SIDE OF IL 26, N. OF PROGRESS DR.  
Recorded Size/Material/Type 36" WRAPPED STEEL (KINDER-MORGAN) GAS PIPE LINE  
Foreman/Truck/Form By J. CLINE / 219 / P. REYNOLDS

Condition of paving prior to work NO PAVING

B.M. 1 Elev. = 682.95'  
is GIVEN Description: TOP OF MONUMENT DISK M192 FOUND, 21'± RT OF PROPOSED CL STA 1643+73.6, IL 26

B.M. 2 Elev. = 683.62'  
is GIVEN Description: TOP OF MAG NAIL FOUND, FOR TRAV. #110, 16'± LT OF PROPOSED CL STA 1643+16.1, IL 26

So-Deep will attempt to use the B.M.#1 most applicable to your design. If however, B.M.#1 differ by more than .05', resulting differences could cause design conflicts.

Benchmarks check BY 0.05'  
Elevations are referenced to B.M.#1

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole.

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed YELLOW

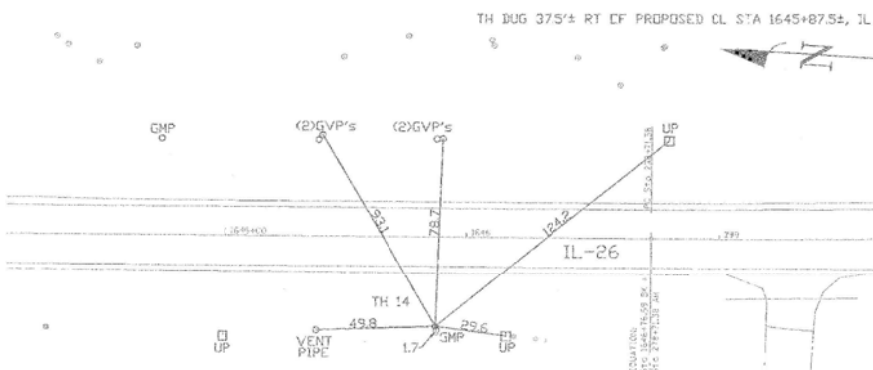
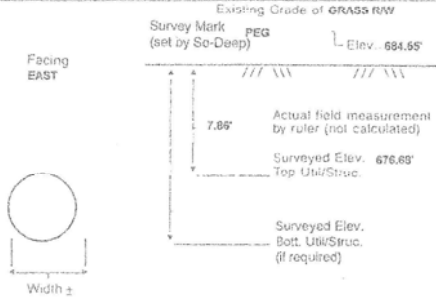
Soil Type MOIST BROWN

Field Condition GRASS RW

T.H. tied to PEG

42" COATED STEEL CASING PIPE \*  
Size/Material/Type  
Portion of pipe exposed for O.D. measurement: FULL

Remarks: \* THE 42" COATED STEEL PIPE SERVES AS A CASING FOR THE 36" WRAPPED STEEL GAS PIPE LINE.



**Legend:**  
 RW = Rights of Way  
 N.T.S. = Not to Scale  
 PCC = Precast Concrete  
 CONC. = Concrete  
 O.D. = Outside Diameter  
 C.I. = Cast Iron  
 D.I. = Ductile Iron  
 RPC = Rough Pour Concrete  
 CL = Centerline  
 T.C. = Terra Cotta  
 PLAS. = Plastic  
 BL = Base Line  
 ELEC. = Electric  
 TELE = Telephone  
 T.H. = Test Hole  
 SW = Sidewalk  
 DW = Driveway  
 BM = Benchmark  
 C.B. = Catch Basin  
 GV = Gas Valve  
 SF = Sewer Manhole  
 TH = Test Hole  
 FH = Fire Hydrant  
 P = Pole  
 F = Fence Line  
 EM = Electric Manhole  
 T.S. = Traverse Station  
 V = Valve  
 WM = Water Meter  
 TM = Telephone Manhole  
 TP = Telephone Pedestal

TEST HOLE #14



The Subsurface Utility Engineering Company  
449 Monroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

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Corporate Headquarters:  
8397 Euclid Avenue  
Monroeville, PA 15111  
(724) 361-6005

Control # SILC153  
Test Hole # 15  
Plan Scale 1"=20'  
Sheet # 4  
Proposed GRADE CHANGE  
Date SEPTEMBER 16, 2009

City, County, State BUREAU CO., IL  
Gen. Loc. IL 26 JUST N. OF PROGRESS DR.  
Recorded Size/Material/Type (2) 2 1/4" PLASTIC (INSIGHT) CTV CONDUITS  
Foreman/Truck/Form By J. CLINE / 219 / P. REYNOLDS

Condition of paving prior to work NO PAVING

B.M. 1 Elev. = 677.10'  
is GIVEN Description: (BM #161) RR SPIKE FOUND AT BASE OF U.P., 59.07' LT OF STA. 284+38.26, S.R. 26

B.M. 2 Elev. = 677.60'  
is GIVEN Description: TOP OF MAG NAIL FOUND, FOR TRAV. #602, 26'± RT OF PROPOSED CL STA 282+08.8, IL 26

So-Deep will attempt to use the B.M.#1 most applicable to your design. If however, B.M.#1 differ by more than .05', resulting differences could cause design conflicts.

Benchmarks check BY 0.02'  
Elevations are referenced to B.M.#1

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole.

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed ORANGE

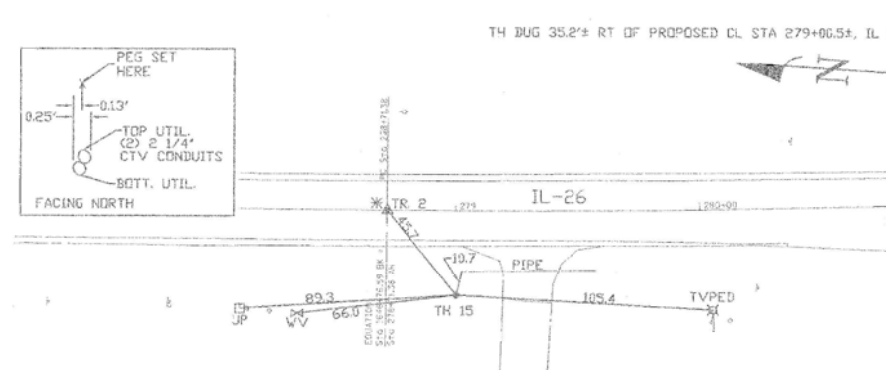
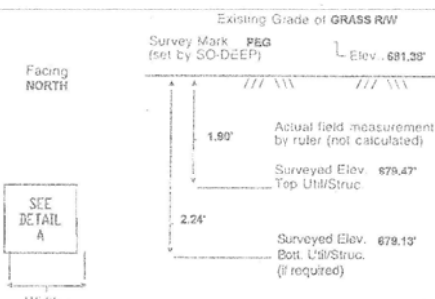
Soil Type MOIST BROWN

Field Condition GRASS RW

T.H. tied to PEG

(2) 2 1/4" PLASTIC CTV CONDUITS \*  
Size/Material/Type  
Portion of pipe exposed for O.D. measurement: FULL

Remarks: \* CREW FOUND THE CONDUITS SMASHED TOGETHER AT THIS LOCATION.



**Legend:**  
 RW = Rights of Way  
 N.T.S. = Not to Scale  
 PCC = Precast Concrete  
 CONC. = Concrete  
 O.D. = Outside Diameter  
 C.I. = Cast Iron  
 D.I. = Ductile Iron  
 RPC = Rough Pour Concrete  
 CL = Centerline  
 T.C. = Terra Cotta  
 PLAS. = Plastic  
 BL = Base Line  
 ELEC. = Electric  
 TELE = Telephone  
 T.H. = Test Hole  
 SW = Sidewalk  
 DW = Driveway  
 BM = Benchmark  
 C.B. = Catch Basin  
 GV = Gas Valve  
 SF = Sewer Manhole  
 TH = Test Hole  
 FH = Fire Hydrant  
 P = Pole  
 F = Fence Line  
 EM = Electric Manhole  
 T.S. = Traverse Station  
 V = Valve  
 WM = Water Meter  
 TM = Telephone Manhole  
 TP = Telephone Pedestal

TEST HOLE #15

FILE NAME = D03306-SHT-SUE-TH-D0N	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUBSURFACE UTILITY ENGINEERING TEST HOLES SHEETS	F.A.P. RTE. = 316	SECTION = (116) R,T	COUNTY = BUREAU	TOTAL SHEETS = 221	SHEET NO. = 170			
	PLOT SCALE = 1"=1'	CHECKED - JOHNSON, B	REVISED -			SCALE =	SHEET NO. 5 OF 20 SHEETS	STA. 1625+49.62 TO STA. 295+14.27	ILLINOIS FED. AID PROJECT				
	PLOT DATE = \$DATE\$	DATE = \$DATE\$	REVISED -			CONTRACT NO. 66901							



The Subsurface Utility Engineering Company  
449 Monroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

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Corporate Headquarters:  
8397 Euclid Avenue  
Manassas Park, VA 20111  
(703) 361-6005

Control # SILC153  
Test Hole # 16  
Plan Scale 1"=20'  
Sheet # 5  
Proposed SFORM X-102  
Date SEPTEMBER 23, 2009

City, County, State CITY OF PRINCETON, IL  
Gen. Loc. SW CORNER IL 26 & PROGRESS DR.  
Recorded Size/Material/Type 10" PLASTIC SANITARY SEWER LINE  
Foreman/Truck/Form By E. CARROLL / 219 / R. MOONEY

Condition of paving prior to work  
NO PAVING

B.M. 1 Elev. = 677.60'  
is GIVEN Description: (TR #502) P.K. NAIL FOUND, 28.25' RT OF PROPOSED CL STA 282+07.39, IL 26

B.M. 2 Elev. = 677.18'  
is GIVEN Description: (BM #101) RR. SPIKE FOUND, AT BASE OF U.P., 59.07' LT OF PROPOSED CL STA 284+38.26, IL 26

Benchmarks check BY 0.02'  
Elevations are referenced to B.M.#2

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole.

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed BLUE

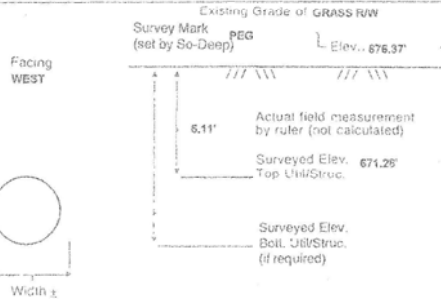
Soil Type MOIST BROWN

Field Condition IN GRASS R/W

T.H. tied to PEG

1" PLASTIC SANITARY SEWER LINE  
Size/Material/Type  
Portion of pipe exposed for O.D. measurement  
FULL

Remarks: NONE



So-Deep will attempt to use the BM#1 most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.



The Subsurface Utility Engineering Company  
449 Monroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

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Corporate Headquarters:  
8397 Euclid Avenue  
Manassas Park, VA 20111  
(703) 361-6005

Control # SILC153  
Test Hole # 17  
Plan Scale 1"=20'  
Sheet # 5  
Proposed CATCH BASIN  
Date SEPTEMBER 23, 2009

City, County, State CITY OF PRINCETON, IL  
Gen. Loc. NW CORNER IL 26 & PROGRESS DR.  
Recorded Size/Material/Type 4" COATED STL. GAS LINE  
Foreman/Truck/Form By E. CARROLL / 219 / R. MOONEY

Condition of paving prior to work  
NO PAVING

B.M. 1 Elev. = 677.60'  
is GIVEN Description: (TR #502) P.K. NAIL FOUND, 28.25' RT OF PROPOSED CL STA 282+07.39, IL 26

B.M. 2 Elev. = 677.18'  
is GIVEN Description: (BM #101) RR. SPIKE FOUND, AT BASE OF U.P., 59.07' LT OF PROPOSED CL STA 284+38.26, IL 26

Benchmarks check BY 0.02'  
Elevations are referenced to B.M.#2

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole.

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed YELLOW

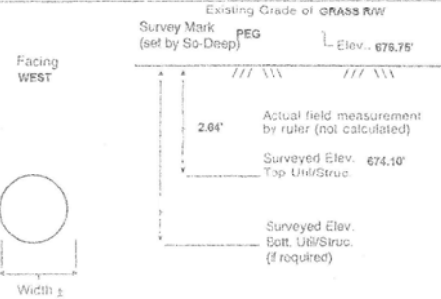
Soil Type MOIST BROWN

Field Condition IN GRASS R/W

T.H. tied to PEG

4 3/4" COATED STL. GAS LINE  
Size/Material/Type  
Portion of pipe exposed for O.D. measurement  
FULL

Remarks: NONE



So-Deep will attempt to use the BM#1 most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.



The Subsurface Utility Engineering Company  
449 Monroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

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Corporate Headquarters:  
8397 Euclid Avenue  
Manassas Park, VA 20111  
(703) 361-6005

Control # SILC153  
Test Hole # 18  
Plan Scale 1"=20'  
Sheet # 5  
Proposed GRADE CHANGE  
Date SEPTEMBER 23, 2009

City, County, State CITY OF PRINCETON, IL  
Gen. Loc. SW CORNER IL 26 & PROGRESS DR.  
Recorded Size/Material/Type 10" D.I. WATER LINE  
Foreman/Truck/Form By E. CARROLL / 219 / R. MOONEY

Condition of paving prior to work  
ASP. RDWY. IN GOOD CONDITION

B.M. 1 Elev. = 677.60'  
is GIVEN Description: (TR #502) P.K. NAIL FOUND, 28.25' RT OF PROPOSED CL STA 282+07.39, IL 26

B.M. 2 Elev. = 677.18'  
is GIVEN Description: (BM #101) RR. SPIKE FOUND, AT BASE OF U.P., 59.07' LT OF PROPOSED CL STA 284+38.26, IL 26

Benchmarks check BY 0.02'  
Elevations are referenced to B.M.#2

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole.

The utility WAS in good condition.

Paving Thickness and type 4" ASPHALT

Color of ribbon installed BLUE

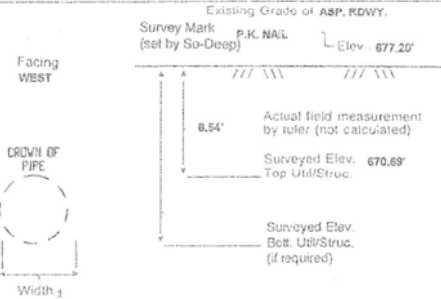
Soil Type HEAVY WATERMUD

Field Condition ASP. RDWY.

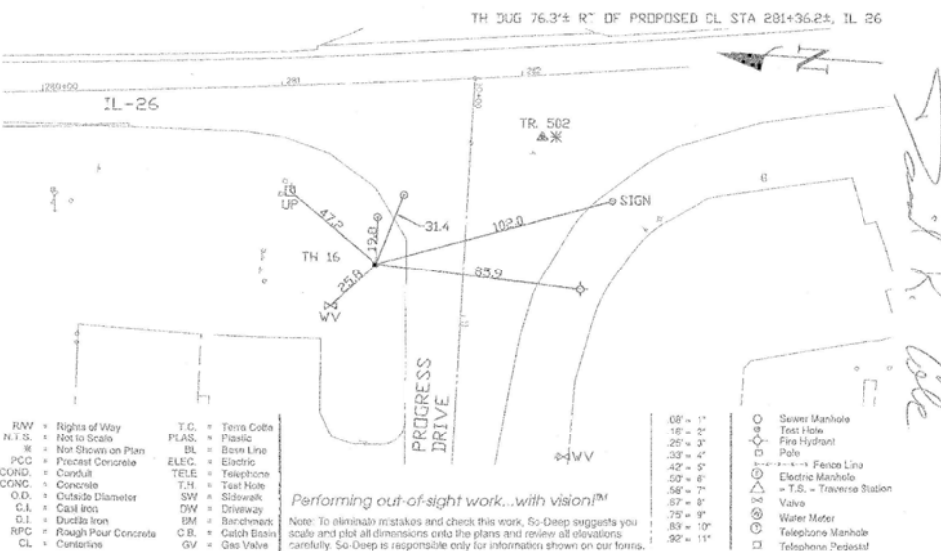
T.H. tied to P.K. NAIL

10" (I.D.) D.I. WATER LINE\*  
Size/Material/Type  
Portion of pipe exposed for O.D. measurement  
OTHER (SEE REMARKS)

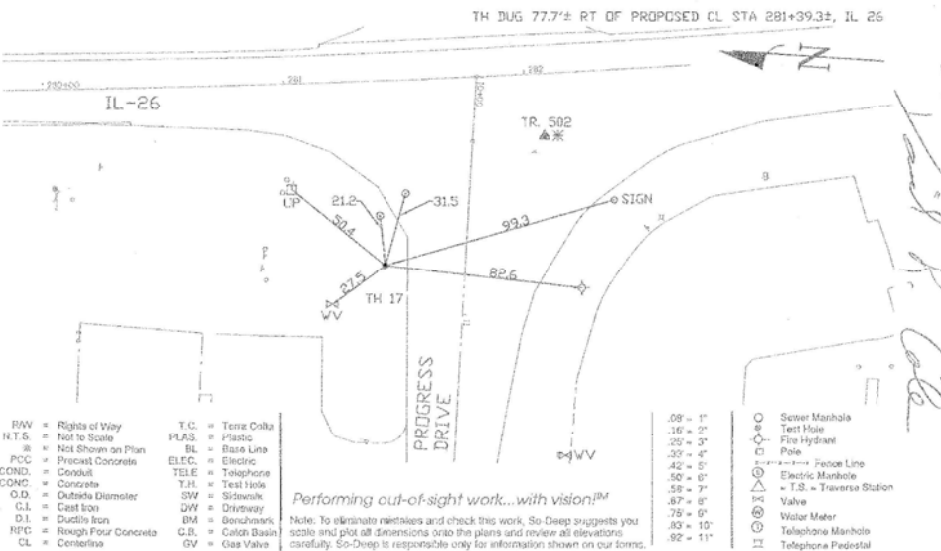
Remarks: \* CREW WAS UNABLE TO OBTAIN AN ACCURATE O.D. MEASUREMENT ON THE 10" D.I. WATER LINE DUE TO COPIOUS AMOUNT OF WATER AND UNSTABLE GROUND CONDITIONS IN THE TEST HOLE. UTILITY RECORDS RESEARCH, TOPSIDE SURVEY AND ELECTRONIC DESIGNATING ALL INDICATE THAT THE TEST HOLE WAS DUG ON THE CORRECT UTILITY.



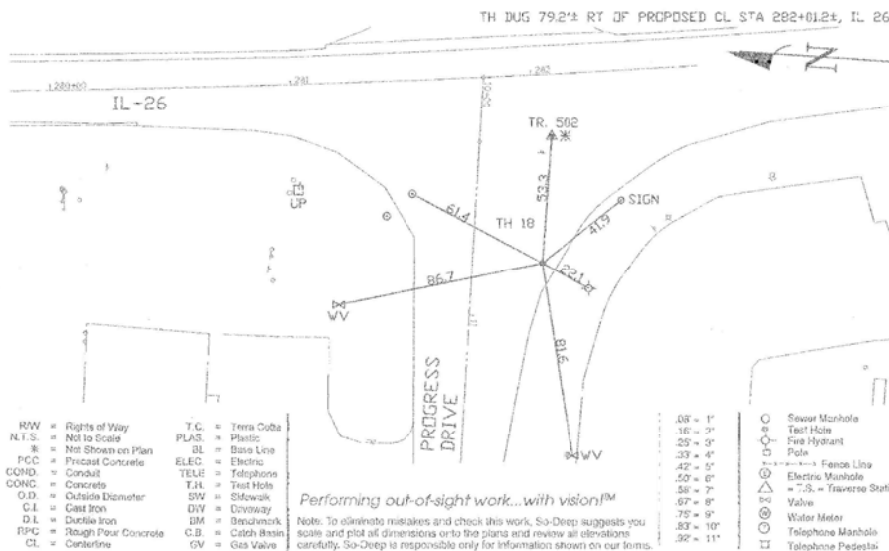
So-Deep will attempt to use the BM#1 most applicable to your design. If however, BMs differ by more than .05', resulting differences could cause design conflicts.



TEST HOLE #16



TEST HOLE #17



TEST HOLE #18

FILE NAME = D03306-SHT-SUE-TH.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUBSURFACE UTILITY ENGINEERING			F.A.P. RTE. 316	SECTION (116) R,T	COUNTY BUREAU	TOTAL SHEETS 221	SHEET NO. 171
	PLOT SCALE = 1"=1'	CHECKED - JOHNSON, B	REVISED -		TEST HOLES SHEETS			STA. 1625+49.62 TO STA. 295+14.27			CONTRACT NO. 66901	
	PLOT DATE = \$DATE\$	DATE - \$DATE\$	REVISED -		SCALE:			SHEET NO. 6 OF 20 SHEETS		ILLINOIS FED. AID PROJECT		
					STA. 1625+49.62 TO STA. 295+14.27							



The Subsurface Utility Engineering Company  
449 Munroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

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Corporate Headquarters:  
8397 Euclid Avenue  
Manassas Park, VA 20111  
(703) 361-6005

Control # SILC153  
Test Hole # 19  
Plan Scale 1"=20'  
Sheet # 5  
Proposed STORM X-ING  
Date SEPTEMBER 17, 2009

City, County, State BUREAU CO., IL  
Gen. Loc. E SIDE IL 26 @ PROGRESS DR.  
Recorded Size/Material/Type 10" UNK. TYPE (C.O.P.) SANITARY SEWER LINE  
Foreman/Truck#/Form By J. CLINE / 219 / P. REYNOLDS

B.M. 1 Elev. = 677.18'  
is GIVEN  
B.M. 2 Elev. = 677.60'  
is GIVEN

Description: TOP OF RR SPIKE IN PP FOUND, FOR BM #101,  
59.07' LT OF PROPOSED CL STA 284+38.26, IL 26  
Description: TOP OF MAG NAIL FOUND, FOR TRAV. #502, 26±  
RT OF PROPOSED CL STA 282+08±, IL 26

So-Deep will attempt to use the SMH# most applicable to your design. If however, SMs differ by more than .05', resulting differences could cause design conflicts.

Benchmarks check BY 0.01'  
Elevations are referenced to B.M.#1

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole.

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed BLUE

Soil Type WET BROWN

Field Condition GRASS RW

T.H. tied to PEG

10 3/4" D.I. (C.O.P.) SANITARY SEWER LINE  
Size/Material/Type  
Portion of pipe exposed for O.D. measurement:  
FULL

Remarks: NONE

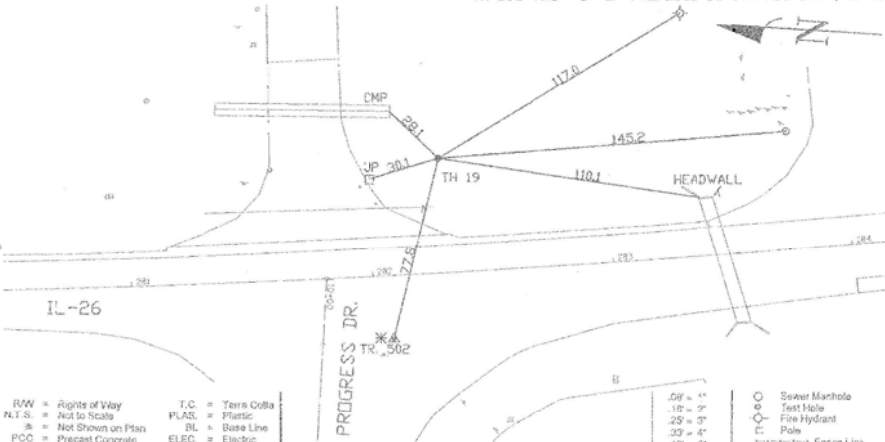
Existing Grade of GRASS RW  
Survey Mark (set by So-Deep) Elev. = 673.61'

Facing NORTH



Width ±

TH DUG 49.2± LT OF PROPOSED CL STA 282+29.8±, IL 26



- R/W = Rights of Way
- N.T.S. = Not to Scale
- \* = Not Shown on Plan
- PCC = Precast Concrete
- COND. = Conduit
- CONC. = Concrete
- O.D. = Outside Diameter
- C.I. = Cast Iron
- D.I. = Ductile Iron
- RPC = Rough Pour Concrete
- CL = Centerline
- T.C. = Terra Cotta
- PLAS. = Plastic
- BL. = Base Line
- ELEC. = Electric
- TELE. = Telephone
- T.H. = Test Hole
- SW = Sidewalk
- DW = Driveway
- BM = Benchmark
- C.B. = Catch Basin
- GV = Gas Valve
- SM = Sewer Manhole
- TH = Test Hole
- PH = Fire Hydrant
- Pole = Pole
- F.L. = Fence Line
- EM = Electric Manhole
- T.S. = Traverse Station
- Valve = Valve
- Water Meter = Water Meter
- TM = Telephone Manhole
- TP = Telephone Pedestal

Performing out-of-sight work...with vision!<sup>SM</sup>

Note: To eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

TEST HOLE #19



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449 Munroe Falls Road  
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(330) 794-4455

### So-Deep Test Hole Certification Form

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Corporate Headquarters:  
8397 Euclid Avenue  
Manassas Park, VA 20111  
(703) 361-6005

Control # SILC153  
Test Hole # 20  
Plan Scale 1"=20'  
Sheet # 6  
Proposed BOX CULVERT  
Date SEPTEMBER 17, 2009

City, County, State BUREAU CO., IL  
Gen. Loc. IL 26 @ N. MOST TRUCK STOP ENTRANCE  
Recorded Size/Material/Type 10" D.I. (C.O.P.) SANITARY SEWER LINE  
Foreman/Truck#/Form By J. CLINE / 219 / P. REYNOLDS

B.M. 1 Elev. = 677.18'  
is GIVEN  
B.M. 2 Elev. = 677.60'  
is GIVEN

Description: TOP OF RR SPIKE IN PP FOUND, FOR BM #101,  
59.07' LT OF PROPOSED CL STA 284+38.26, IL 26  
Description: TOP OF MAG NAIL FOUND, FOR TRAV. #502, 26±  
RT OF PROPOSED CL STA 282+08±, IL 26

So-Deep will attempt to use the SMH# most applicable to your design. If however, SMs differ by more than .05', resulting differences could cause design conflicts.

Benchmarks check BY 0.01'  
Elevations are referenced to B.M.#2

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole.

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed BLUE

Soil Type WET BROWN

Field Condition CREEK BED

T.H. tied to IRON PIPE

10 3/4" D.I. (C.O.P.) SANITARY SEWER LINE  
Size/Material/Type  
Portion of pipe exposed for O.D. measurement:  
FULL

Remarks: NONE

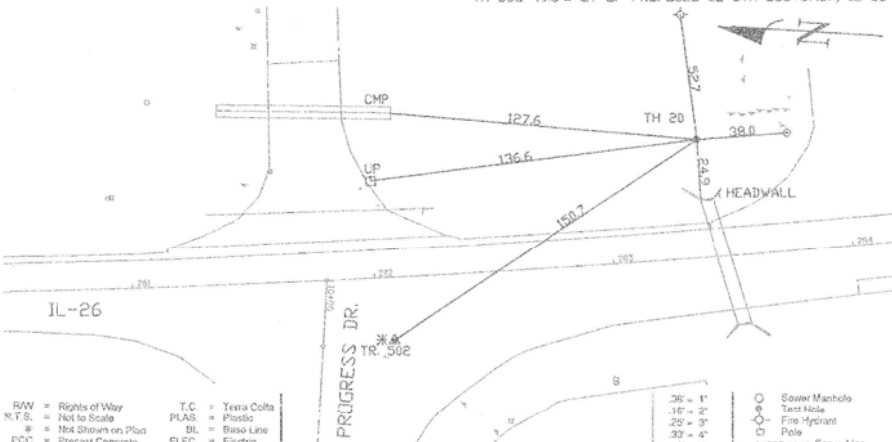
Existing Grade of CREEK BED  
Survey Mark (set by So-Deep) Elev. = 670.72'

Facing NORTH



Width ±

TH DUG 49.6± LT OF PROPOSED CL STA 283+37.8±, IL 26



- R/W = Rights of Way
- N.T.S. = Not to Scale
- \* = Not Shown on Plan
- PCC = Precast Concrete
- COND. = Conduit
- CONC. = Concrete
- O.D. = Outside Diameter
- C.I. = Cast Iron
- D.I. = Ductile Iron
- RPC = Rough Pour Concrete
- CL = Centerline
- T.C. = Terra Cotta
- PLAS. = Plastic
- BL. = Base Line
- ELEC. = Electric
- TELE. = Telephone
- T.H. = Test Hole
- SW = Sidewalk
- DW = Driveway
- BM = Benchmark
- C.B. = Catch Basin
- GV = Gas Valve
- SM = Sewer Manhole
- TH = Test Hole
- PH = Fire Hydrant
- Pole = Pole
- F.L. = Fence Line
- EM = Electric Manhole
- T.S. = Traverse Station
- Valve = Valve
- Water Meter = Water Meter
- TM = Telephone Manhole
- TP = Telephone Pedestal

Performing out-of-sight work...with vision!<sup>SM</sup>

Note: To eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

TEST HOLE #20



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### So-Deep Test Hole Certification Form

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Corporate Headquarters:  
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Manassas Park, VA 20111  
(703) 361-6005

Control # SILC153  
Test Hole # 21  
Plan Scale 1"=20'  
Sheet # 6  
Proposed BOX CULVERT  
Date SEPTEMBER 17, 2009

City, County, State BUREAU CO., IL  
Gen. Loc. IL 26 @ N. MOST TRUCK STOP ENTRANCE  
Recorded Size/Material/Type 2" STEEL (NICOR) GAS LINE  
Foreman/Truck#/Form By J. CLINE / 219 / P. REYNOLDS

B.M. 1 Elev. = 677.18'  
is GIVEN  
B.M. 2 Elev. = 677.60'  
is GIVEN

Description: TOP OF RR SPIKE IN PP FOUND, FOR BM #101,  
59.07' LT OF PROPOSED CL STA 284+38.26, IL 26  
Description: TOP OF MAG NAIL FOUND, FOR TRAV. #502, 26±  
RT OF PROPOSED CL STA 282+08±, IL 26

So-Deep will attempt to use the SMH# most applicable to your design. If however, SMs differ by more than .05', resulting differences could cause design conflicts.

Benchmarks check BY 0.01'  
Elevations are referenced to B.M.#2

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole.

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed BLUE

Soil Type WET BROWN

Field Condition CREEK BED

T.H. tied to IRON PIPE

2 1/2" COATED STEEL (NICOR) GAS LINE  
Size/Material/Type  
Portion of pipe exposed for O.D. measurement:  
FULL

Remarks: NONE

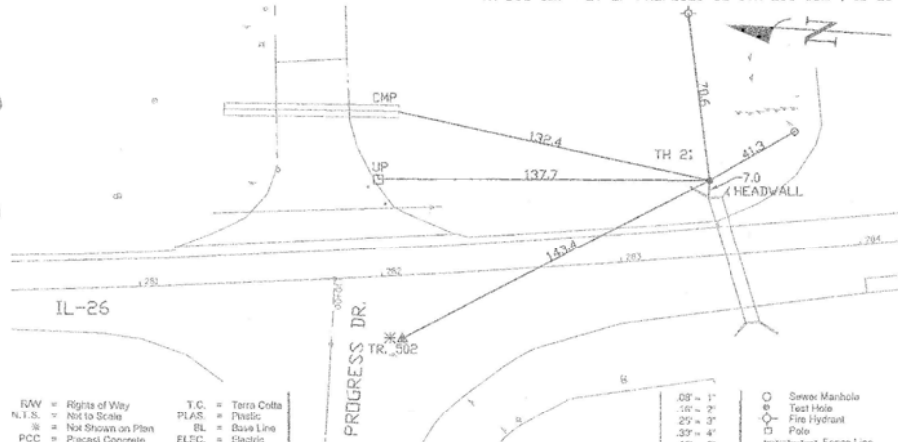
Existing Grade of CREEK BED  
Survey Mark (set by So-Deep) Elev. = 669.76'

Facing NORTH



Width ±

TH DUG 31.7± LT OF PROPOSED CL STA 283+38.6±, IL 26



- R/W = Rights of Way
- N.T.S. = Not to Scale
- \* = Not Shown on Plan
- PCC = Precast Concrete
- COND. = Conduit
- CONC. = Concrete
- O.D. = Outside Diameter
- C.I. = Cast Iron
- D.I. = Ductile Iron
- RPC = Rough Pour Concrete
- CL = Centerline
- T.C. = Terra Cotta
- PLAS. = Plastic
- BL. = Base Line
- ELEC. = Electric
- TELE. = Telephone
- T.H. = Test Hole
- SW = Sidewalk
- DW = Driveway
- BM = Benchmark
- C.B. = Catch Basin
- GV = Gas Valve
- SM = Sewer Manhole
- TH = Test Hole
- PH = Fire Hydrant
- Pole = Pole
- F.L. = Fence Line
- EM = Electric Manhole
- T.S. = Traverse Station
- Valve = Valve
- Water Meter = Water Meter
- TM = Telephone Manhole
- TP = Telephone Pedestal

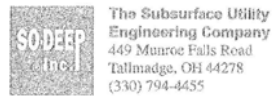
Performing out-of-sight work...with vision!<sup>SM</sup>

Note: To eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

TEST HOLE #21

FILE NAME = D03306-SHT-SUE-TH.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUBSURFACE UTILITY ENGINEERING			F.A.P. RTE. = 316	SECTION = (116) R,T	COUNTY = BUREAU	TOTAL SHEETS = 221	SHEET NO. = 172
	PLOT SCALE = 1"=1'	DRAWN - RAMIREZ, P	REVISED -		TEST HOLES SHEETS			CONTRACT NO. 66901				
	PLOT DATE = \$DATE\$	CHECKED - JOHNSON, B	REVISED -		SCALE:			SHEET NO. 7 OF 20 SHEETS			STA. 1625+49.62 TO STA. 295+14.27	
		DATE - \$DATE\$	REVISED -					ILLINOIS FED. AID PROJECT				





The Subsurface Utility Engineering Company  
449 Monroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

@ So-Deep, Inc. 1988, 1994

Corporate Headquarters:  
8397 Euclid Avenue  
Manassas Park, VA 20111  
(703) 361-6005

Control # SILC153  
Test Hole # 22  
Plan Scale 1"=20'  
Sheet # 5  
Processed GRADE CHANGE  
Date SEPTEMBER 21, 2009

City, County, State CITY OF PRINCETON, IL  
Gen. Loc. IL 26 @ ENTR. TO BLDG. #2041  
Recorded Size/Material/Type 12" D.I. WATER LINE  
Foreman/Truck#/Form By E. CARROLL / 219 / R. MOONEY

Condition of paving prior to work  
NO PAVING

Description: (TR #502) P.K. NAIL FOUND, 26.28' RT OF PROPOSED CL STA 282+07.39, IL 26

B.M. 1 Elev. = 677.80'  
is GIVEN

B.M. 2 Elev. = 677.18'  
is GIVEN

Description: (BM #101) RR SPIKE FOUND, AT BASE OF U.P., 59.07' LT OF PROPOSED CL STA 284+38.26, IL 26

Benchmarks check BY 0.01'  
Elevations are referenced to B.M.#1

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed BLUE

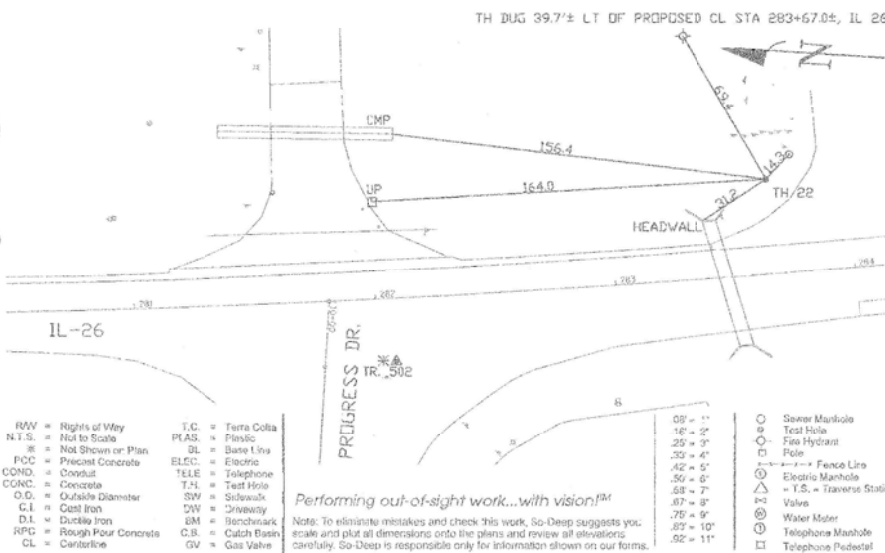
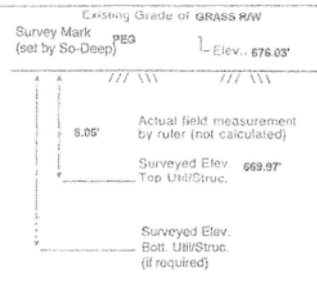
Soil Type MOIST BROWN

Field Condition IN GRASS RW

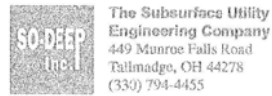
T.H. tied to PEG

13" D.I. WATER LINE  
Size/Material/Type  
Portion of pipe exposed for O.D. measurement  
FULL

Remarks: NONE



TEST HOLE #22



The Subsurface Utility Engineering Company  
449 Monroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

@ So-Deep, Inc. 1988, 1994

Corporate Headquarters:  
8397 Euclid Avenue  
Manassas Park, VA 20111  
(703) 361-6005

Control # SILC153  
Test Hole # 23  
Plan Scale 1"=20'  
Sheet # 5  
Processed GRADE CHANGE  
Date SEPTEMBER 21, 2009

City, County, State CITY OF PRINCETON, IL  
Gen. Loc. IL 26 @ ENTR. TO BLDG. #2041  
Recorded Size/Material/Type 12" D.I. WATER LINE  
Foreman/Truck#/Form By E. CARROLL / 219 / R. MOONEY

Condition of paving prior to work  
NO PAVING

Description: (TR #502) P.K. NAIL FOUND, 26.28' RT OF PROPOSED CL STA 282+07.39, IL 26

B.M. 1 Elev. = 677.80'  
is GIVEN

B.M. 2 Elev. = 677.18'  
is GIVEN

Description: (BM #101) RR SPIKE FOUND, AT BASE OF U.P., 59.07' LT OF PROPOSED CL STA 284+38.26, IL 26

Benchmarks check BY 0.01'  
Elevations are referenced to B.M.#1

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed BLUE

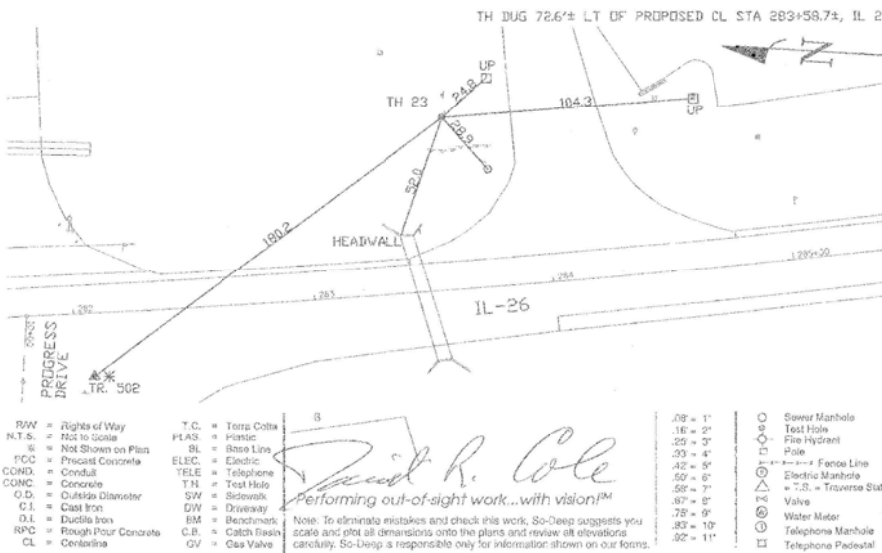
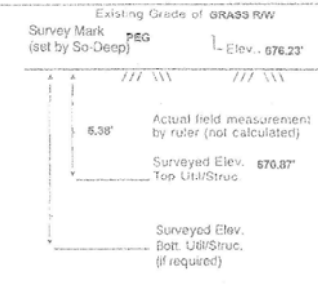
Soil Type MOIST BROWN

Field Condition IN GRASS RW

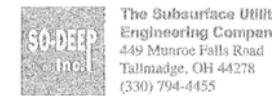
T.H. tied to PEG

13" D.I. WATER LINE  
Size/Material/Type  
Portion of pipe exposed for O.D. measurement  
FULL

Remarks: NONE



TEST HOLE #23



The Subsurface Utility Engineering Company  
449 Monroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

@ So-Deep, Inc. 1988, 1994

Corporate Headquarters:  
8397 Euclid Avenue  
Manassas Park, VA 20111  
(703) 361-6005

Control # SILC153  
Test Hole # 24  
Plan Scale 1"=20'  
Sheet # 5  
Processed GRADE CHANGE  
Date SEPTEMBER 21, 2009

City, County, State CITY OF PRINCETON, IL  
Gen. Loc. IL 26 @ ENTR. TO BLDG. #2041  
Recorded Size/Material/Type 8" UNK. TYPE SAN. SEWER / 2" UNK. TYPE GAS LINE  
Foreman/Truck#/Form By E. CARROLL / 219 / R. MOONEY

Condition of paving prior to work  
NO PAVING

Description: (TR #502) P.K. NAIL FOUND, 26.28' RT OF PROPOSED CL STA 282+07.39, IL 26

B.M. 1 Elev. = 677.80'  
is GIVEN

B.M. 2 Elev. = 677.18'  
is GIVEN

Description: (BM #101) RR SPIKE FOUND, AT BASE OF U.P., 59.07' LT OF PROPOSED CL STA 284+38.26, IL 26

Benchmarks check BY 0.01'  
Elevations are referenced to B.M.#1

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed BLUE/YELLOW

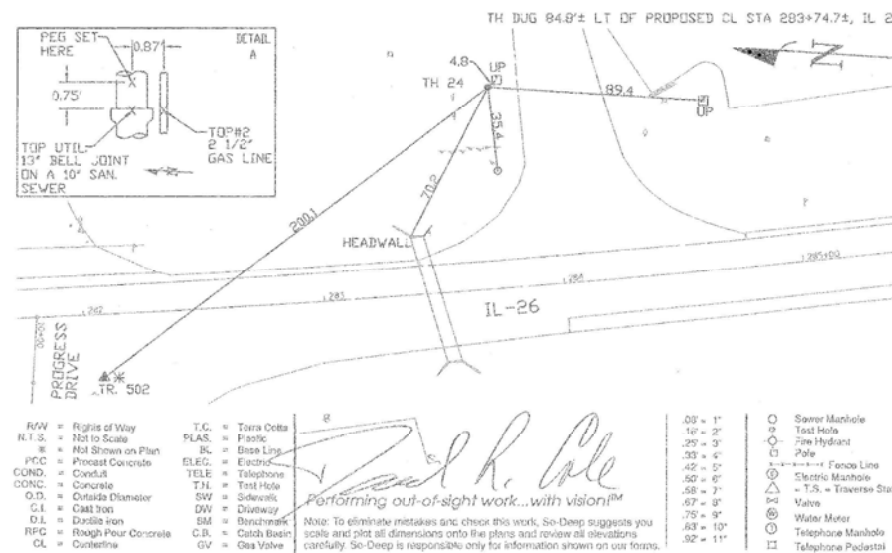
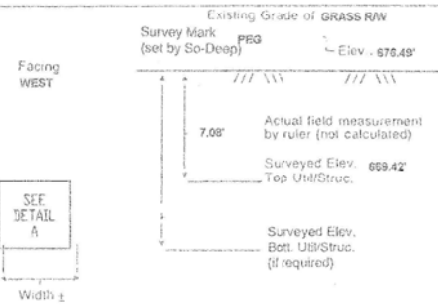
Soil Type MOIST BROWN

Field Condition IN GRASS RW

T.H. tied to PEG

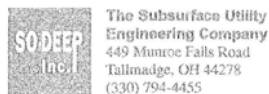
SEE REMARKS \*  
Size/Material/Type  
Portion of pipe exposed for O.D. measurement  
FULL

Remarks: \* CREW FOUND A 13" BELL JOINT ON A 10" TERRA COTTA SANITARY SEWER LINE AND A 2 1/2" COATED STL. GAS LINE RUNNING PARALLEL TO THE 10" SANITARY SEWER LINE.



TEST HOLE #24

FILE NAME = D03306-SHT-SUE-TH.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUBSURFACE UTILITY ENGINEERING			F.A.P. RTE. 316	SECTION (116) R,T	COUNTY BUREAU	TOTAL SHEETS 221	SHEET NO. 173
		DRAWN - RAMIREZ, P	REVISED -		TEST HOLES SHEETS			STA. 1625+49.62 TO STA. 295+14.27		CONTRACT NO. 66901		
		CHECKED - JOHNSON, B	REVISED -		SCALE:			SHEET NO. 8 OF 20 SHEETS		ILLINOIS FED. AID PROJECT		
		DATE - \$DATE\$	REVISED -									



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449 Munroe Falls Road  
Tallmadge, OH 44278  
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### So-Deep Test Hole Certification Form

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Corporate Headquarters:  
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(703) 361-6005

Control # SILC153  
Test Hole # 25  
Plan Scale 1"=20'  
Sheet # 5  
Proposed GRADE CHANGE  
Date SEPTEMBER 24, 2009

City, County, State CITY OF PRINCETON, IL  
Gen. Loc. IL 26 @ N. FRONT ENTR. TO PILOT TRUCK STOP  
Recorded Size/Material/Type 10" U/K. TYPE SANITARY SEWER LINE  
Foreman/Truck#/Form By E. CARROLL / 219 / R. MOONEY

Condition of paving prior to work  
NO PAVING

B.M. 1 Elev. = 677.60'  
is GIVEN  
Description: (TR #502) P.K. NAIL FOUND, 26.28' RT OF PROPOSED CL STA 262+07.38, IL 26

B.M. 2 Elev. = 677.18'  
is GIVEN  
Description: (BM #101) RR SPIKE FOUND, AT BASE OF U.P., 69.07' LT OF PROPOSED CL STA 284+38.26, IL 26

Benchmarks check BY 0.02'  
Elevations are referenced to B.M.#1

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed BLUE

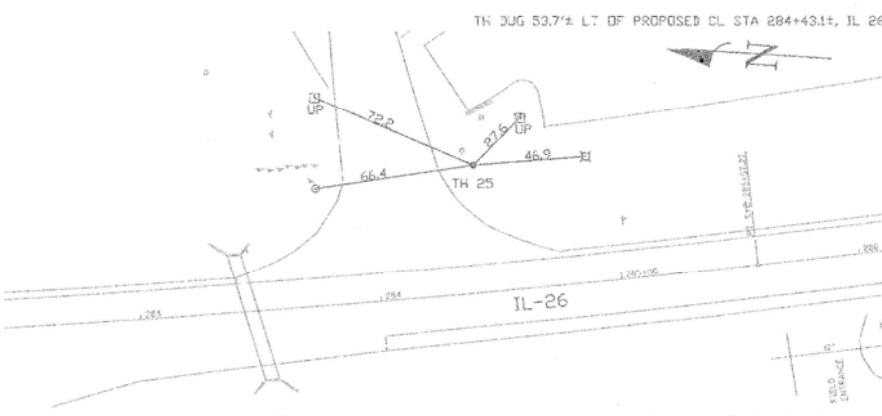
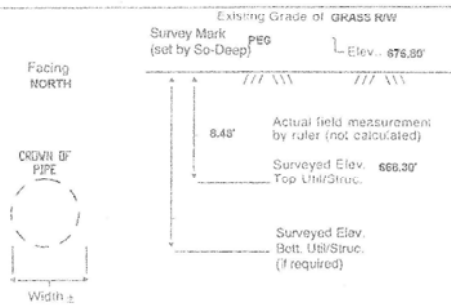
Soil Type HEAVY WATER / MUD

Field Condition IN GRASS RW

T.H. tied to PEG

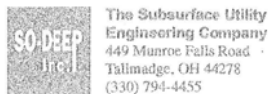
10" (I.D.) TERRA COTTA SANITARY SEWER LINE  
Size/Material/Type  
Portion of pipe exposed for O.D. measurement:  
OTHER: (SEE REMARKS)

Remarks: CREW WAS UNABLE TO OBTAIN AN ACCURATE O.D. MEASUREMENT DUE TO COPIOUS AMOUNT OF WATER AND UNSAFE GROUND CONDITIONS. UTILITY RECORDS RESEARCH AND TOPSIDE SURVEY BOTH INDICATE THAT THE TEST HOLE WAS DUG ON THE CORRECT UTILITY.



R/W = Rights of Way	T.C. = Terra Cotta	58" = 1'	○ Sewer Manhole
N.T.S. = Not to Scale	PLAS. = Plastic	18" = 2'	○ Test Hole
* = Not Shown on Plan	BL. = Base Line	25" = 3'	○ Fire Hydrant
P.C.C. = Precast Concrete	ELEC. = Electric	33" = 4'	○ Pole
COND. = Conduit	TELE. = Telephone	42" = 5'	--- Fence Line
CONC. = Concrete	T.H. = Test Hole	50" = 6'	△ Electric Manhole
O.D. = Outside Diameter	SW = Sidewalk	58" = 7'	△ T.S. = Traverse Station
C.I. = Cast Iron	DW = Driveway	67" = 8'	○ Valve
D.I. = Ductile Iron	BM = Benchmark	75" = 9'	○ Valve Meter
R.P.C. = Rough Pour Concrete	C.B. = Catch Basin	83" = 10'	○ Telephone Manhole
CL = Centerline	GV = Gas Valve	92" = 11'	□ Telephone Pedestal

TEST HOLE #25



The Subsurface Utility Engineering Company  
449 Munroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

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Manassas Park, VA 20111  
(703) 361-6005

Control # SILC153  
Test Hole # 26  
Plan Scale 1"=20'  
Sheet # 5  
Proposed GRADE CHANGE  
Date SEPTEMBER 22, 2009

City, County, State CITY OF PRINCETON, IL  
Gen. Loc. IL 26 IN FRONT OF PILOT TRUCK CENTER  
Recorded Size/Material/Type 12" D.I. WATER LINE / U/K. SIZE & TYPE TELE. CABLE  
Foreman/Truck#/Form By E. CARROLL / 219 / R. MOONEY

Condition of paving prior to work  
NO PAVING

B.M. 1 Elev. = 677.50'  
is GIVEN  
Description: (TR #502) P.K. NAIL FOUND, 26.28' RT OF PROPOSED CL STA 232+07.38, IL 26

B.M. 2 Elev. = 677.18'  
is GIVEN  
Description: (BM #101) RR SPIKE FOUND, AT BASE OF U.P., 69.07' LT OF PROPOSED CL STA 284+38.26, IL 26

Benchmarks check BY 0.02'  
Elevations are referenced to B.M.#1

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed BLUE/ORANGE

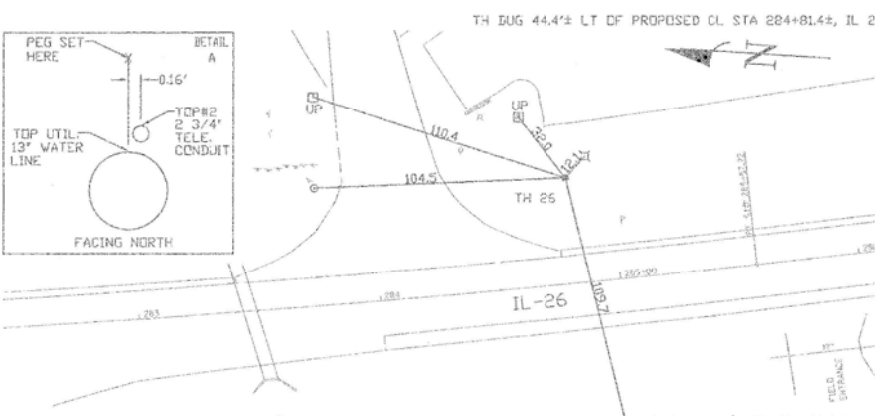
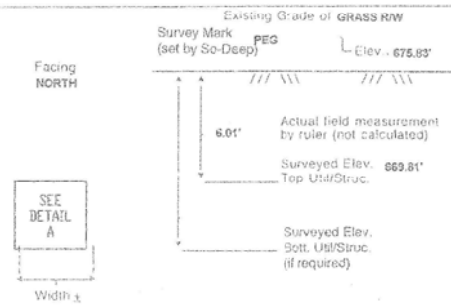
Soil Type MOIST BROWN

Field Condition IN GRASS RW

T.H. tied to PEG

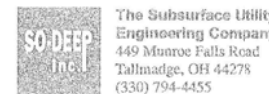
12" D.I. WATER LINE & A 2 3/4" TELE. CONDUIT  
Size/Material/Type  
Portion of pipe exposed for O.D. measurement:  
FULL

Remarks: NONE



R/W = Rights of Way	T.C. = Terra Cotta	58" = 1'	○ Sewer Manhole
N.T.S. = Not to Scale	PLAS. = Plastic	18" = 2'	○ Test Hole
* = Not Shown on Plan	BL. = Base Line	25" = 3'	○ Fire Hydrant
P.C.C. = Precast Concrete	ELEC. = Electric	33" = 4'	○ Pole
COND. = Conduit	TELE. = Telephone	42" = 5'	--- Fence Line
CONC. = Concrete	T.H. = Test Hole	50" = 6'	△ Electric Manhole
O.D. = Outside Diameter	SW = Sidewalk	58" = 7'	△ T.S. = Traverse Station
C.I. = Cast Iron	DW = Driveway	67" = 8'	○ Valve
D.I. = Ductile Iron	BM = Benchmark	75" = 9'	○ Valve Meter
R.P.C. = Rough Pour Concrete	C.B. = Catch Basin	83" = 10'	○ Telephone Manhole
CL = Centerline	GV = Gas Valve	92" = 11'	□ Telephone Pedestal

TEST HOLE #26



The Subsurface Utility Engineering Company  
449 Munroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

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Corporate Headquarters:  
8397 Euclid Avenue  
Manassas Park, VA 20111  
(703) 361-6005

Control # SILC153  
Test Hole # 27  
Plan Scale 1"=20'  
Sheet # 5  
Proposed STORM LANE  
Date SEPTEMBER 22, 2009

City, County, State CITY OF PRINCETON, IL  
Gen. Loc. IL 26 IN FRONT OF PILOT TRUCK CENTER  
Recorded Size/Material/Type 12" D.I. WATER LINE  
Foreman/Truck#/Form By E. CARROLL / 219 / R. MOONEY

Condition of paving prior to work  
NO PAVING

B.M. 1 Elev. = 677.60'  
is GIVEN  
Description: (TR #502) P.K. NAIL FOUND, 26.28' RT OF PROPOSED CL STA 262+07.38, IL 26

B.M. 2 Elev. = 677.18'  
is GIVEN  
Description: (BM #101) RR SPIKE FOUND, AT BASE OF U.P., 69.07' LT OF PROPOSED CL STA 284+38.26, IL 26

Benchmarks check BY 0.02'  
Elevations are referenced to B.M.#1

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed BLUE

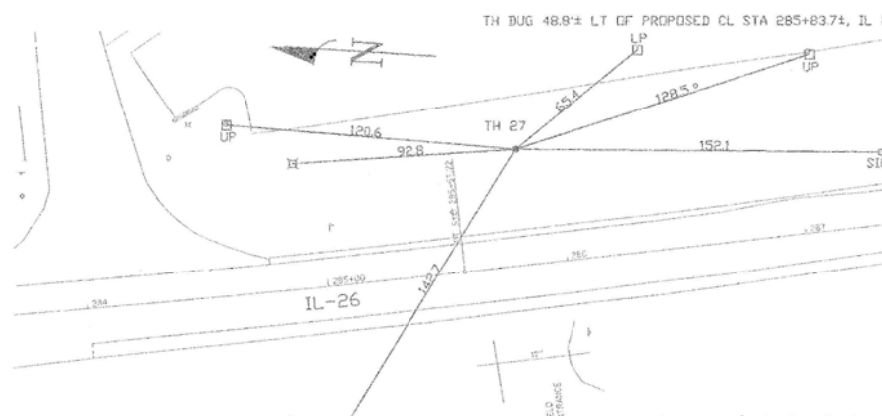
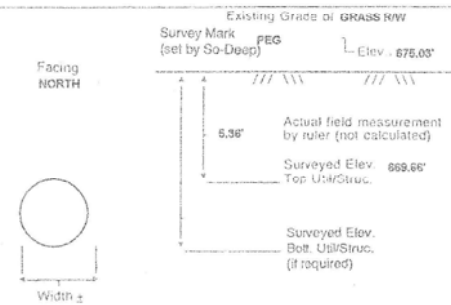
Soil Type MOIST BROWN

Field Condition IN GRASS RW

T.H. tied to PEG

12" D.I. WATER LINE  
Size/Material/Type  
Portion of pipe exposed for O.D. measurement:  
FULL

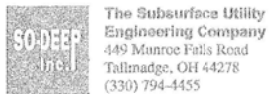
Remarks: NONE



R/W = Rights of Way	T.C. = Terra Cotta	58" = 1'	○ Sewer Manhole
N.T.S. = Not to Scale	PLAS. = Plastic	18" = 2'	○ Test Hole
* = Not Shown on Plan	BL. = Base Line	25" = 3'	○ Fire Hydrant
P.C.C. = Precast Concrete	ELEC. = Electric	33" = 4'	○ Pole
COND. = Conduit	TELE. = Telephone	42" = 5'	--- Fence Line
CONC. = Concrete	T.H. = Test Hole	50" = 6'	△ Electric Manhole
O.D. = Outside Diameter	SW = Sidewalk	58" = 7'	△ T.S. = Traverse Station
C.I. = Cast Iron	DW = Driveway	67" = 8'	○ Valve
D.I. = Ductile Iron	BM = Benchmark	75" = 9'	○ Valve Meter
R.P.C. = Rough Pour Concrete	C.B. = Catch Basin	83" = 10'	○ Telephone Manhole
CL = Centerline	GV = Gas Valve	92" = 11'	□ Telephone Pedestal

TEST HOLE #27

FILE NAME = D03306-SHT-SUE-TH.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUBSURFACE UTILITY ENGINEERING			F.A.P. RTE. = 316	SECTION = (116) R,T	COUNTY = BUREAU	TOTAL SHEETS = 221	SHEET NO. = 174
		DRAWN - RAMIREZ, P	REVISED -		TEST HOLES SHEETS			CONTRACT NO. 66901				
		CHECKED - JOHNSON, B	REVISED -		SCALE:	SHEET NO. 9 OF 20 SHEETS	STA. 1625+49.62 TO STA. 295+14.27	ILLINOIS FED. AID PROJECT				
		DATE = \$DATE\$	REVISED -									



The Subsurface Utility Engineering Company  
449 Monroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

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Corporate Headquarters:

8397 Euclid Avenue  
Manassas Park, VA 20111  
(703) 361-6005

Control # SILC153  
Test Hole # 28  
Plan Scale 1"=20'  
Sheet # 6  
Proposed STORM X-ING  
Date SEPTEMBER 22, 2009

City, County, State CITY OF PRINCETON, IL  
Gen. Loc. IL 26 IN FRONT OF PILOT TRAVEL CENTER  
Recorded Size/Material/Type 12" D.I. WATER LINE  
Foreman/Truck#/Form By E. CARROLL / 219 / R. MOONEY

Condition of paving prior to work  
NO PAVING

Description: (TR #502) P.K. MAIL FOUND, 20.28' RT OF PROPOSED CL STA 282+07.29, IL 26

Description: (BM #101) RR SPIKE FOUND, AT BASE OF U.P., 59.07' LT OF PROPOSED CL STA 284+38.26, IL 26

So-Deep will attempt to use the B.M.H. most applicable to your design. If however, B.M.s differ by more than .05', resulting differences could cause design conflicts.

Benchmarks check BY 0.02'  
Elevations are referenced to B.M.#1

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole.

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed BLUE

Soil Type MOIST BROWN

Field Condition IN GRASS R/W

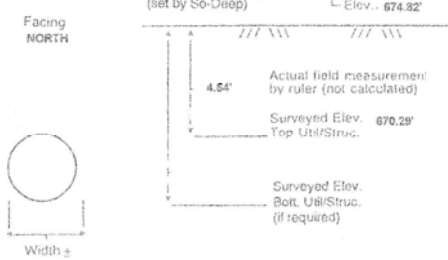
T.H. tied to PEG

13" D.I. WATER LINE  
Size/Material/Type  
Portion of pipe exposed for O.D. measurement  
FULL

Remarks: NONE

Existing Grade of GRASS R/W

Survey Mark (set by So-Deep) PEG Elev. 674.82'



TH DUG 53.1'± LT OF PROPOSED CL STA 287+00.7±, IL 26

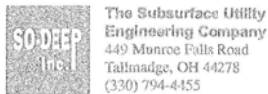
*Handwritten signature: Paul R. Cole*

- R/W = Rights of Way
- N.T.S. = Not to Scale
- PL = Not Shown on Plan
- PCC = Precast Concrete
- COND. = Conduit
- CONC. = Concrete
- O.D. = Outside Diameter
- C.I. = Cast Iron
- D.I. = Ductile Iron
- RPC = Rough Pour Concrete
- CL = Centaline
- T.C. = Terra Cotta
- PLAS. = Plastic
- BL = Base Line
- ELEC. = Electric
- TELE = Telephone
- T.H. = Test Hole
- SW = Sidewalk
- DW = Driveway
- BM = Benchmark
- C.B. = Catch Basin
- GV = Gas Valve
- SM = Sewer Manhole
- TH = Test Hole
- FM = Fire Hydrant
- PS = Pole
- EL = Electric Manhole
- T.S. = Traverse Station
- VAL = Valve
- WM = Water Meter
- TM = Telephone Manhole
- TP = Telephone Pedestal

Performing out-of-sight work...with vision!

Note: To eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

TEST HOLE #28



The Subsurface Utility Engineering Company  
449 Monroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

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Corporate Headquarters:

8397 Euclid Avenue  
Manassas Park, VA 20111  
(703) 361-6005

Control # SILC153  
Test Hole # 29  
Plan Scale 1"=20'  
Sheet # 6  
Proposed STORM X-ING  
Date SEPTEMBER 23, 2009

City, County, State CITY OF PRINCETON, IL  
Gen. Loc. IL 26 @ S. MOST ENTR. PILOT TRUCK STOP  
Recorded Size/Material/Type 12" D.I. WATER LINE  
Foreman/Truck#/Form By E. CARROLL / 219 / R. MOONEY

Condition of paving prior to work  
NO PAVING

Description: (TR #803) 80d SPIKE FOUND, IN GRAVEL SHLDR., 20.10' RT OF PROPOSED CL STA 291+73.49, IL 26

Description: (BM #102) RR SPIKE FOUND, AT BASE OF U.P., 73.81' RT OF PROPOSED CL STA 287+30.25, IL 26

So-Deep will attempt to use the B.M.H. most applicable to your design. If however, B.M.s differ by more than .05', resulting differences could cause design conflicts.

Benchmarks check BY 0.05'  
Elevations are referenced to B.M.#2

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole.

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed BLUE

Soil Type MOIST BROWN

Field Condition IN GRASS R/W

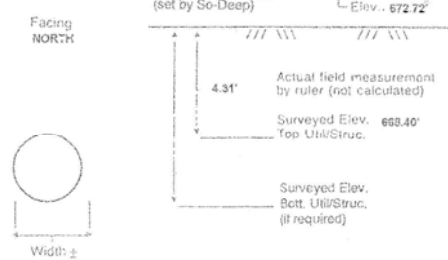
T.H. tied to PEG

13" D.I. WATER LINE  
Size/Material/Type  
Portion of pipe exposed for O.D. measurement  
FULL

Remarks: NONE

Existing Grade of GRASS R/W

Survey Mark (set by So-Deep) PEG Elev. 672.72'



TH DUG 66.9'± LT OF PROPOSED CL STA 289+47.1±, IL 26

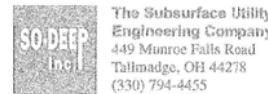
*Handwritten signature: Paul R. Cole*

- R/W = Rights of Way
- N.T.S. = Not to Scale
- PL = Not Shown on Plan
- PCC = Precast Concrete
- COND. = Conduit
- CONC. = Concrete
- O.D. = Outside Diameter
- C.I. = Cast Iron
- D.I. = Ductile Iron
- RPC = Rough Pour Concrete
- CL = Centaline
- T.C. = Terra Cotta
- PLAS. = Plastic
- BL = Base Line
- ELEC. = Electric
- TELE = Telephone
- T.H. = Test Hole
- SW = Sidewalk
- DW = Driveway
- BM = Benchmark
- C.B. = Catch Basin
- GV = Gas Valve
- SM = Sewer Manhole
- TH = Test Hole
- FM = Fire Hydrant
- PS = Pole
- EL = Electric Manhole
- T.S. = Traverse Station
- VAL = Valve
- WM = Water Meter
- TM = Telephone Manhole
- TP = Telephone Pedestal

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Note: To eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

TEST HOLE #29



The Subsurface Utility Engineering Company  
449 Monroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

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Corporate Headquarters:

8397 Euclid Avenue  
Manassas Park, VA 20111  
(703) 361-6005

Control # SILC153  
Test Hole # 30  
Plan Scale 1"=20'  
Sheet # 6  
Proposed GRADE CHANGE  
Date SEPTEMBER 17, 2009

City, County, State BUREAU CO., IL  
Gen. Loc. W. SIDE IL 26, N. OF I-40  
Recorded Size/Material/Type UNK. SIZE (VERTICAL) TELE. CABLE  
Foreman/Truck#/Form By J. CLINE / 219 / P. REYNOLDS

Condition of paving prior to work  
NO PAVING

Description: TOP OF RR SPIKE IN PP FOUND FOR BM #102, 73.51' RT OF STA. 287+30.25, IL 26.

Description: TOP OF 80d SPIKE FOUND, FOR TRAV. #503, 20.10' RT OF PROPOSED CL STA 291+73.49, IL 26

So-Deep will attempt to use the B.M.H. most applicable to your design. If however, B.M.s differ by more than .05', resulting differences could cause design conflicts.

Benchmarks check BY 0.04'  
Elevations are referenced to B.M.#1

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole.

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed ORANGE

Soil Type MOIST BROWN

Field Condition GRASS R/W

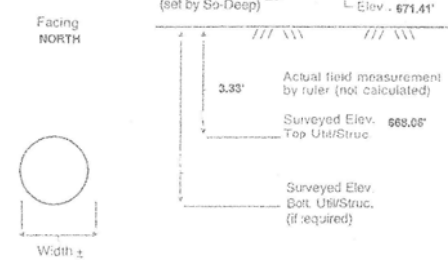
T.H. tied to PEG

(1) 2" (VERTICAL) TELE. CABLE  
Size/Material/Type  
Portion of pipe exposed for O.D. measurement  
FULL

Remarks: NONE

Existing Grade of GRASS R/W

Survey Mark (set by So-Deep) PEG Elev. 671.41'



TH DUG 59.3'± RT OF PROPOSED CL STA 290+49.8±, IL 26

*Handwritten signature: Paul R. Cole*

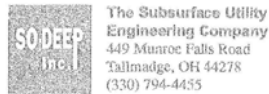
- R/W = Rights of Way
- N.T.S. = Not to Scale
- PL = Not Shown on Plan
- PCC = Precast Concrete
- COND. = Conduit
- CONC. = Concrete
- O.D. = Outside Diameter
- C.I. = Cast Iron
- D.I. = Ductile Iron
- RPC = Rough Pour Concrete
- CL = Centaline
- T.C. = Terra Cotta
- PLAS. = Plastic
- BL = Base Line
- ELEC. = Electric
- TELE = Telephone
- T.H. = Test Hole
- SW = Sidewalk
- DW = Driveway
- BM = Benchmark
- C.B. = Catch Basin
- GV = Gas Valve
- SM = Sewer Manhole
- TH = Test Hole
- FM = Fire Hydrant
- PS = Pole
- EL = Electric Manhole
- T.S. = Traverse Station
- VAL = Valve
- WM = Water Meter
- TM = Telephone Manhole
- TP = Telephone Pedestal

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Note: To eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

TEST HOLE #30

FILE NAME = D03306-SHT-SUE-TH.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUBSURFACE UTILITY ENGINEERING			F.A.P. RTE. = 316	SECTION = (116) R,T	COUNTY = BUREAU	TOTAL SHEETS = 221	SHEET NO. = 175
	PLOT SCALE = 1"=1'	DRAWN - RAMIREZ, P	REVISED -		TEST HOLES SHEETS			CONTRACT NO. 66901				
	PLOT DATE = \$DATE\$	CHECKED - JOHNSON, B	REVISED -		SCALE:	SHEET NO. 10 OF 20 SHEETS	STA. 1625+49.62 TO STA. 295+14.27	ILLINOIS FED. AID PROJECT				
		DATE - \$DATE\$	REVISED -									



The Subsurface Utility Engineering Company  
449 Munroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

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Condition of paving prior to work  
**NO PAVING**

City, County, State: **BUREAU CO., IL**  
Gen. Loc.: **W. SIDE IL 26, N. OF I-80**  
Recorded Size/Material/Type: **UNK. SIZE (INSIGHT) CTV CABLE**  
Foreman/Truck#/Form By: **J. CLINE / 219 / P. REYNOLDS**

B.M. 1 Elev. = **676.74'**  
is **GIVEN**  
Description: **TOP OF RR SPIKE IN PP FOUND FOR BM #102, 73.81' RT OF STA. 287+30.25, IL 26.**

B.M. 2 Elev. = **675.65'**  
is **GIVEN**  
Description: **TOP OF 80d SPIKE FOUND, FOR TRAV. #503, 20.10' RT OF PROPOSED CL STA 291+73.49, IL 26**

Benchmarks check **BY 0.01'**  
Elevations are referenced to **B.M.#1**

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole.

The utility **WAS** in good condition.

Paving Thickness and type **NO PAVING**

Color of ribbon installed **ORANGE**

Soil Type **MOIST BROWN**

Field Condition **GRASS RW**

T.H. tied to **PEG**

**(1) 2" PLASTIC (INSIGHT) CTV CONDUIT**  
Size/Material/Type  
Portion of pipe exposed for O.D. measurement  
**FULL**

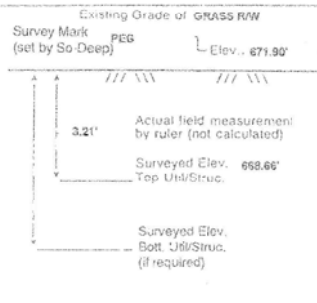
Remarks: **NONE**

Corporate Headquarters:

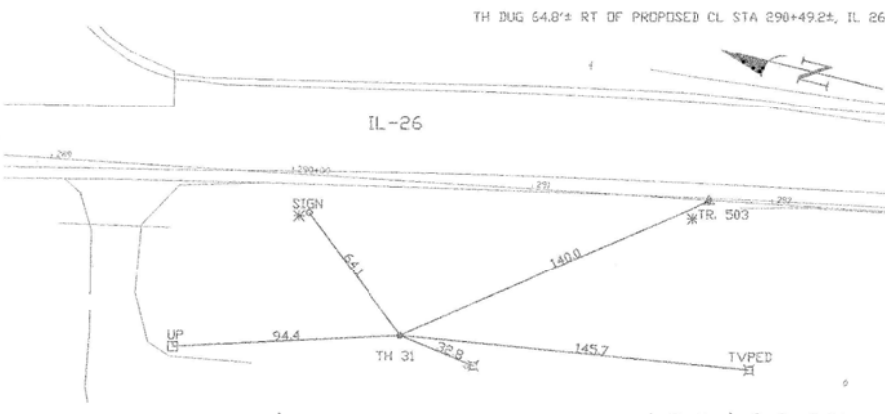
8397 Euclid Avenue  
Manassas Park, VA 20111  
(703) 361-6005

Control # **SILC153**  
Test Hole # **31**  
Plan Scale **1"=20'**  
Sheet # **6**  
Proposed **GRADE CHANGE**  
Date **SEPTEMBER 17, 2009**

So-Deep will attempt to use the BMM# most applicable to your design. If however, BMM# differ by more than .05', resulting differences could cause design conflicts.



TH DUG 54.0'± RT OF PROPOSED CL STA 290+49.2±, IL 26

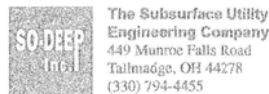


- R/W = Rights of Way
- N.T.S. = Not to Scale
- \* = Not Shown on Plan
- P.C.C. = Precast Concrete
- COND. = Conduit
- CONC. = Concrete
- O.D. = Outside Diameter
- C.I. = Cast Iron
- D.I. = Ductile Iron
- RPC = Rough Pour Concrete
- CL = Centerline
- T.C. = Terra Cotta
- PLAS. = Plastic
- BL. = Base Line
- ELEC. = Electric
- TELE. = Telephone
- T.H. = Test Hole
- SW = Sidewalk
- DW = Driveway
- BM = Benchmark
- C.B. = Catch Basin
- GV = Gas Valve

Performing out-of-sight work...with vision!™

Note: To eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

**TEST HOLE #31**



The Subsurface Utility Engineering Company  
449 Munroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

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Condition of paving prior to work  
**NO PAVING**

City, County, State: **BUREAU CO., IL**  
Gen. Loc.: **W. SIDE IL 26, N. OF I-80**  
Recorded Size/Material/Type: **UNK. SIZE (VERIZON) TELE. CABLE**  
Foreman/Truck#/Form By: **J. CLINE / 219 / P. REYNOLDS**

B.M. 1 Elev. = **675.74'**  
is **GIVEN**  
Description: **TOP OF RR SPIKE IN PP FOUND FOR BM #102, 73.81' RT OF STA. 287+30.25, IL 26.**

B.M. 2 Elev. = **676.65'**  
is **GIVEN**  
Description: **TOP OF 80d SPIKE FOUND, FOR TRAV. #503, 20.10' RT OF PROPOSED CL STA 291+73.49, IL 26**

Benchmarks check **BY 0.01'**  
Elevations are referenced to **B.M.#1**

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole.

The utility **WAS** in good condition.

Paving Thickness and type **NO PAVING**

Color of ribbon installed **ORANGE**

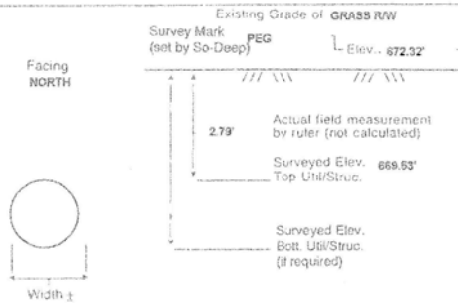
Soil Type **MOIST BROWN**

Field Condition **GRASS RW**

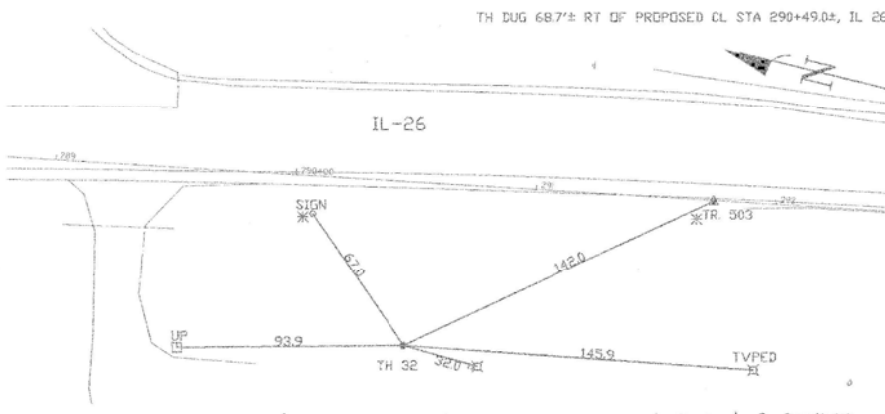
T.H. tied to **PEG**

**(1) 1 1/4" (VERIZON) TELE. CABLE**  
Size/Material/Type  
Portion of pipe exposed for O.D. measurement  
**FULL**

Remarks: **NONE**



TH DUG 68.7'± RT OF PROPOSED CL STA 290+49.0±, IL 26

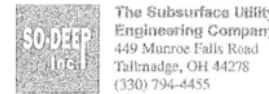


- R/W = Rights of Way
- N.T.S. = Not to Scale
- \* = Not Shown on Plan
- P.C.C. = Precast Concrete
- COND. = Conduit
- CONC. = Concrete
- O.D. = Outside Diameter
- C.I. = Cast Iron
- D.I. = Ductile Iron
- RPC = Rough Pour Concrete
- CL = Centerline
- T.C. = Terra Cotta
- PLAS. = Plastic
- BL. = Base Line
- ELEC. = Electric
- TELE. = Telephone
- T.H. = Test Hole
- SW = Sidewalk
- DW = Driveway
- BM = Benchmark
- C.B. = Catch Basin
- GV = Gas Valve

Performing out-of-sight work...with vision!™

Note: To eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

**TEST HOLE #32**



The Subsurface Utility Engineering Company  
449 Munroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

© So-Deep, Inc. 1988, 1994

Condition of paving prior to work  
**NO PAVING**

City, County, State: **CITY OF PRINCETON, IL**  
Gen. Loc.: **S.R. 24 @ S. MOST ENTR. PILOT TRUCK STOP**  
Recorded Size/Material/Type: **12" D.I. WATER LINE**  
Foreman/Truck#/Form By: **E. CARROLL / 219 / R. MOONEY**

B.M. 1 Elev. = **675.65'**  
is **GIVEN**  
Description: **(TR 503) 80d SPIKE FOUND, IN GRAVEL SHLDR., 20.10' RT OF PROPOSED CL STA 291+73.49, IL 26**

B.M. 2 Elev. = **675.74'**  
is **GIVEN**  
Description: **(BM #102) RR. SPIKE FOUND, AT BASE OF U.P., 73.81' RT OF PROPOSED CL STA 287+30.25, IL 26**

Benchmarks check **BY 0.05'**  
Elevations are referenced to **B.M.#2**

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole.

The utility **WAS** in good condition.

Paving Thickness and type **NO PAVING**

Color of ribbon installed **BLUE**

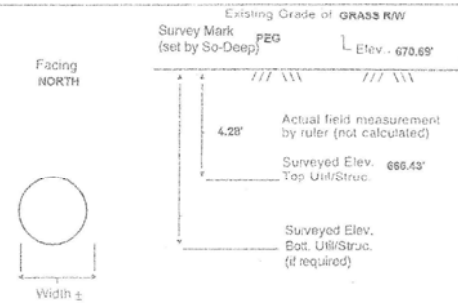
Soil Type **MOIST BROWN**

Field Condition **IN GRASS RW**

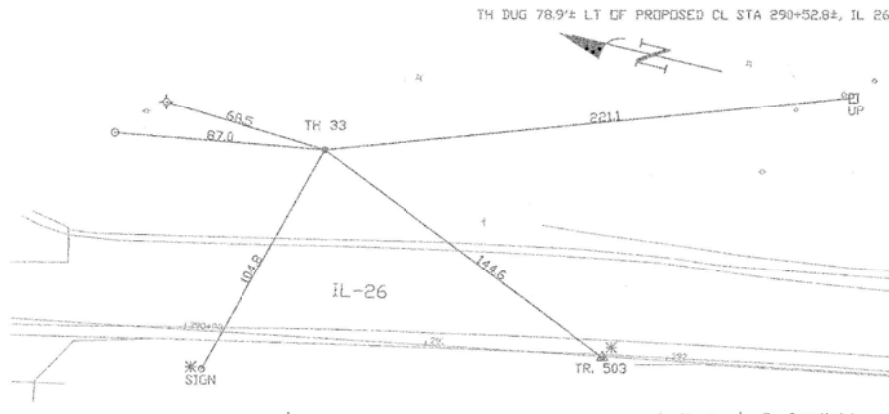
T.H. tied to **PEG**

**12" D.I. WATER LINE**  
Size/Material/Type  
Portion of pipe exposed for O.D. measurement  
**FULL**

Remarks: **NONE**



TH DUG 78.9'± LT OF PROPOSED CL STA 290+52.8±, IL 26



- R/W = Rights of Way
- N.T.S. = Not to Scale
- \* = Not Shown on Plan
- P.C.C. = Precast Concrete
- COND. = Conduit
- CONC. = Concrete
- O.D. = Outside Diameter
- C.I. = Cast Iron
- D.I. = Ductile Iron
- RPC = Rough Pour Concrete
- CL = Centerline
- T.C. = Terra Cotta
- PLAS. = Plastic
- BL. = Base Line
- ELEC. = Electric
- TELE. = Telephone
- T.H. = Test Hole
- SW = Sidewalk
- DW = Driveway
- BM = Benchmark
- C.B. = Catch Basin
- GV = Gas Valve

Performing out-of-sight work...with vision!™

Note: To eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

**TEST HOLE #33**

FILE NAME = D03306-SHT-SUE-TH-D0N	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUBSURFACE UTILITY ENGINEERING</b>			F.A.P. RTE. = 316	SECTION = (116) R,T	COUNTY = BUREAU	TOTAL SHEETS = 221	SHEET NO. = 176
					<b>TEST HOLES SHEETS</b>			<b>CONTRACT NO. 66901</b>				
					<b>SCALE:</b>			<b>ILLINOIS FED. AID PROJECT</b>				
					<b>SHEET NO. 11 OF 20 SHEETS</b>			<b>STA. 1625+49.62 TO STA. 295+14.27</b>				



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449 Munroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

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Condition of paving prior to work  
**NO PAVING**

City, County, State **BUREAU CO., IL**  
Conc. Lne. **CRBK BED E, SIDE IL 26 & I-80 WB OFF RAMP**  
Recorded Size/Material/Type **6" PLASTIC (C.O.P.) SANITARY FORCE MAIN**  
Foreman/Truck#/Form By **J. CLINE / 219 / P. REYNOLDS**

B.M. 1 Elev. = **671.99'**  
is **CALCULATED**  
Description: **CHIS "I" SET TOP OF CONC. SAN. MH., 122± LT OF PROPOSED CL STA 292+68, IL 26**

B.M. 2 Elev. = **671.45'**  
is **CALCULATED**  
Description: **(3) NAILS SET BASE OF U.P. NO #, 114± LT OF PROPOSED CL STA 292+71, IL 26**

Benchmarks check **BY 0.00'**  
Elevations are referenced to **B.M.#1**

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole.

The utility **WAS** in good condition.

Paving Thickness and type **NO PAVING**

Color of ribbon installed **BLUE**

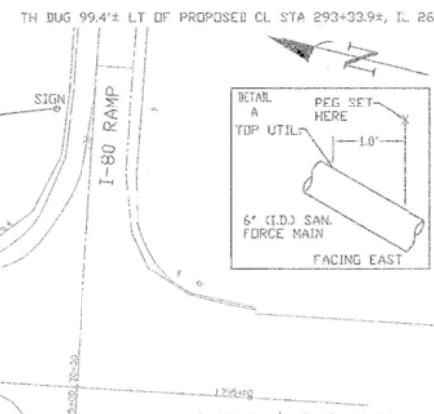
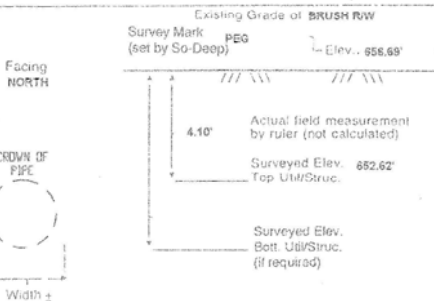
Soil Type **WET BROWN**

Field Condition **HIGH BRUSH R/W**

T.H. tied to **PEG**

**6" (I.D.) C.I. SAN. FORCE MAIN \***  
Size/Material/Type  
Portion of pipe exposed for O.D. measurement:  
**OTHER, (SEE REMARKS)**

Remarks: \*THE 6" C.I. SAN. FORCE MAIN IS MAKING A NOTICEABLE VERTICAL GRADE CHANGE IN A SOUTHERLY DIRECTION. THE CREW COULD NOT OBTAIN AN ACCURATE O.D. MEASUREMENT DUE TO COPIOUS AMOUNT OF WATER & UNSTABLE GROUND CONDITIONS IN THE TEST HOLE. TOPSIDE SURVEY, UTILITY RECORDS RESEARCH & ELECTRONIC DESIGNATING ALL INDICATE THAT THE TEST HOLE WAS DUG ON THE CORRECT UTILITY. MR. STEVE WRIGHT OF THE CITY OF PRINCETON HAS INDICATED THAT THE MATERIAL TYPE OF THE SAN. FORCE MAIN FOUND IN THIS AREA MAY DIFFER FROM THOSE REFLECTED ON THE CITY OF PRINCETON RECORDS.



- RW = Rights of Way
- N.T.S. = Not to Scale
- \* = Not Shown on Plan
- FCC = Precast Concrete
- COND. = Conduit
- CONC. = Concrete
- O.D. = Outside Diameter
- C.I. = Cast Iron
- D.I. = Ductile Iron
- RPC = Rough Pour Concrete
- CL = Centerline
- T.C. = Terra Cotta
- PLAS. = Plastic
- BL = Base Line
- ELEC. = Electric
- TELE = Telephone
- T.H. = Test Hole
- SW = Sidewalk
- DW = Driveway
- BM = Benchmark
- CB = Catch Basin
- GV = Gas Valve

Performing out-of-sight work...with vision!<sup>SM</sup>

Note: To eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

**TEST HOLE #34**



The Subsurface Utility Engineering Company  
449 Munroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

© So-Deep, Inc. 1988, 1994

Condition of paving prior to work  
**NO PAVING**

City, County, State **BUREAU CO., IL**  
Conc. Lne. **CRBK BED E, SIDE IL 26 & I-80 WB OFF RAMP**  
Recorded Size/Material/Type **12" D.I. (C.O.P.) WATER LINE**  
Foreman/Truck#/Form By **J. CLINE / 219 / P. REYNOLDS**

B.M. 1 Elev. = **671.99'**  
is **CALCULATED**  
Description: **CHIS "I" SET TOP OF CONC. SAN. MH., 122± LT OF PROPOSED CL STA 292+68, IL 26**

B.M. 2 Elev. = **671.45'**  
is **CALCULATED**  
Description: **(3) NAILS SET BASE OF U.P. NO #, 114± LT OF PROPOSED CL STA 292+71, IL 26**

Benchmarks check **BY 0.00'**  
Elevations are referenced to **B.M.#1**

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole.

The utility **WAS** in good condition.

Paving Thickness and type **NO PAVING**

Color of ribbon installed **BLUE**

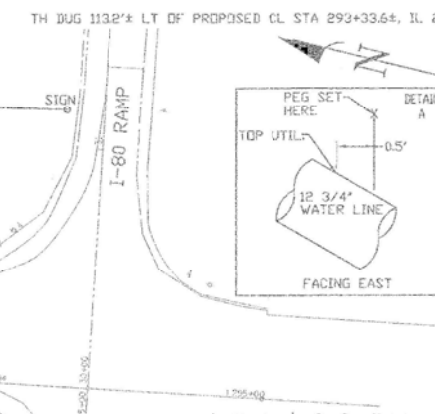
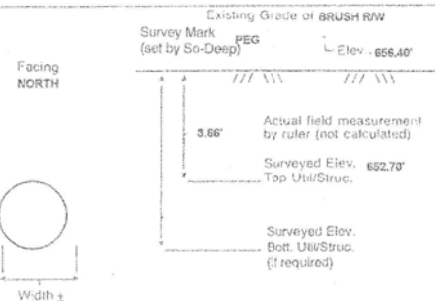
Soil Type **WET BROWN**

Field Condition **HIGH BRUSH R/W**

T.H. tied to **PEG**

**12 3/4" D.I. WATER LINE \***  
Size/Material/Type  
Portion of pipe exposed for O.D. measurement:  
**FULL**

Remarks: \*THE 12 3/4" D.I. WATER LINE IS MAKING A NOTICEABLE VERTICAL GRADE CHANGE IN A SOUTHERLY DIRECTION.



- RW = Rights of Way
- N.T.S. = Not to Scale
- \* = Not Shown on Plan
- FCC = Precast Concrete
- COND. = Conduit
- CONC. = Concrete
- O.D. = Outside Diameter
- C.I. = Cast Iron
- D.I. = Ductile Iron
- RPC = Rough Pour Concrete
- CL = Centerline
- T.C. = Terra Cotta
- PLAS. = Plastic
- BL = Base Line
- ELEC. = Electric
- TELE = Telephone
- T.H. = Test Hole
- SW = Sidewalk
- DW = Driveway
- BM = Benchmark
- CB = Catch Basin
- GV = Gas Valve

Performing out-of-sight work...with vision!<sup>SM</sup>

Note: To eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

**TEST HOLE #35**



The Subsurface Utility Engineering Company  
449 Munroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

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Condition of paving prior to work  
**NO PAVING**

City, County, State **CITY OF PRINCETON, IL**  
Conc. Lne. **IL 96 @ 1800 N. ROAD**  
Recorded Size/Material/Type **UNK. SIZE & TYPE TELE. LINE**  
Foreman/Truck#/Form By **E. CARROLL / 219 / R. MOONEY**

B.M. 1 Elev. = **699.24'**  
is **GIVEN**  
Description: **(BM #103) TOP CHIS "X" NW MOST BOLT ON F.H., 43.82' LT OF PROPOSED CL STA 1640+72.28, IL 26**

B.M. 2 Elev. = **694.45'**  
is **GIVEN**  
Description: **(BM #104) TOP COTTON PICKER SPINDLE @ BASE OF U.P., 42.95' LT OF PROPOSED CL STA 1632+20.56, IL 26**

Benchmarks check **BY 0.00'**  
Elevations are referenced to **B.M.#2**

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole.

The utility **WAS** in good condition.

Paving Thickness and type **NO PAVING**

Color of ribbon installed **ORANGE**

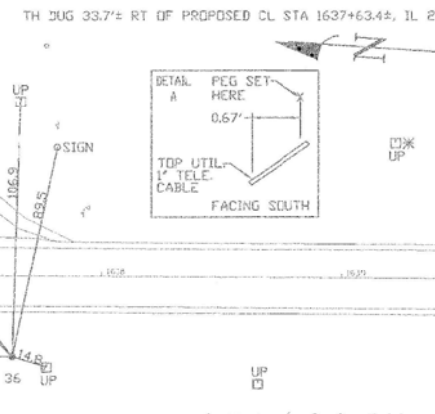
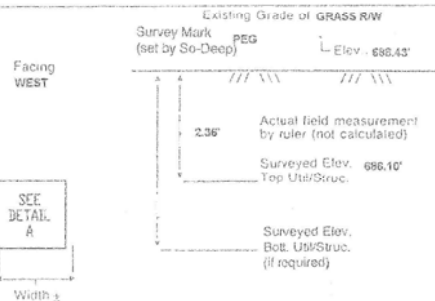
Soil Type **MOIST BROWN**

Field Condition **IN GRASS R/W**

T.H. tied to **PEG**

**1" TELE. CABLE \***  
Size/Material/Type  
Portion of pipe exposed for O.D. measurement:  
**FULL**

Remarks: \*CREW FOUND THE TELE. CABLE MAKING A NOTICEABLE VERTICAL GRADE CHANGE AT THIS LOCATION. SEE DETAIL "A"



- RW = Rights of Way
- N.T.S. = Not to Scale
- \* = Not Shown on Plan
- FCC = Precast Concrete
- COND. = Conduit
- CONC. = Concrete
- O.D. = Outside Diameter
- C.I. = Cast Iron
- D.I. = Ductile Iron
- RPC = Rough Pour Concrete
- CL = Centerline
- T.C. = Terra Cotta
- PLAS. = Plastic
- BL = Base Line
- ELEC. = Electric
- TELE = Telephone
- T.H. = Test Hole
- SW = Sidewalk
- DW = Driveway
- BM = Benchmark
- CB = Catch Basin
- GV = Gas Valve

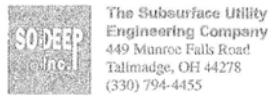
Performing out-of-sight work...with vision!<sup>SM</sup>

Note: To eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

**TEST HOLE #36**

FILE NAME = D03306-SHT-SUE-TH.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUBSURFACE UTILITY ENGINEERING</b>			F.A.P. RTE. = 316	SECTION = (116) R,T	COUNTY = BUREAU	TOTAL SHEETS = 221	SHEET NO. = 177
	PLOT SCALE = 1"=1'	CHECKED - JOHNSON, B	REVISED -		<b>TEST HOLES SHEETS</b>			<b>CONTRACT NO. 66901</b>				
	PLOT DATE = \$DATE\$	DATE - \$DATE\$	REVISED -		<b>SCALE:</b>			<b>ILLINOIS FED. AID PROJECT</b>				
					<b>SHEET NO. 12 OF 20 SHEETS</b>			<b>STA. 1625+49.62 TO STA. 295+14.27</b>				





The Subsurface Utility Engineering Company  
449 Munroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

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Corporate Headquarters:  
8397 Euclid Avenue  
Manassas Park, VA 20111  
(703) 361-6005

Control # SILC153  
Test Hole # 40  
Plan Scale 1"=20'  
Sheet # 5  
Proposed STORM W-ING  
Date SEPTEMBER 23, 2009

City, County, State CITY OF PRINCETON, IL  
Gen. Loc. SW CORNER IL 26 & PROGRESS DR  
Recorded Size/Material/Type UNK. SIZE TYPE WATER LINE / UNK. SIZE TYPE FUNCTION  
Foreman/Truck#/Form By E. CARROLL / 219 / R. MOONEY

Condition of paving prior to work  
NO PAVING

B.M. 1 Elev. = 677.60'  
is GIVEN Description: (TR #502) P.K. NAIL FOUND, 26.28' RT OF PROPOSED CL STA 282+07.39, IL 26

B.M. 2 Elev. = 677.18'  
is GIVEN Description: (BM #101) RR SPIKE FOUND, AT BASE OF U.P., 59.07' LT OF PROPOSED CL STA 284+38.26, IL 26

Benchmarks check BY 0.02'  
Elevations are referenced to B.M.#2

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole.

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed BLUE

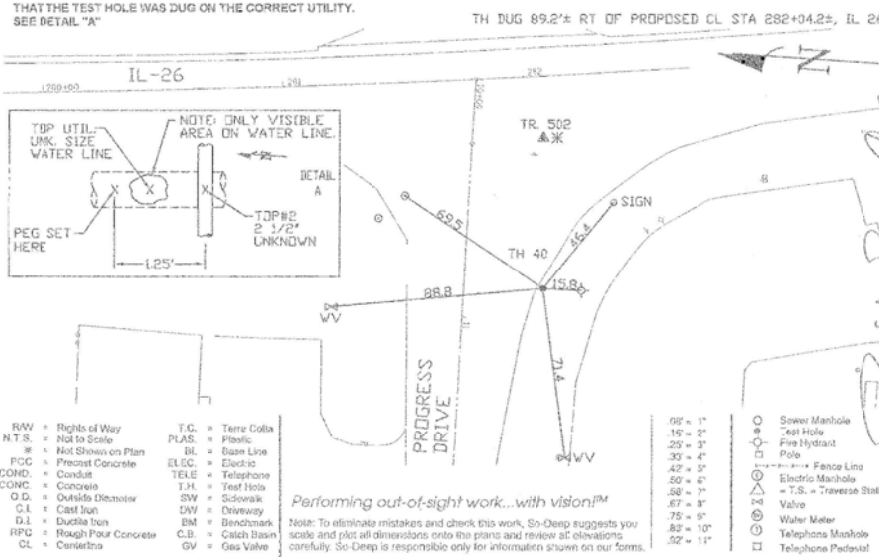
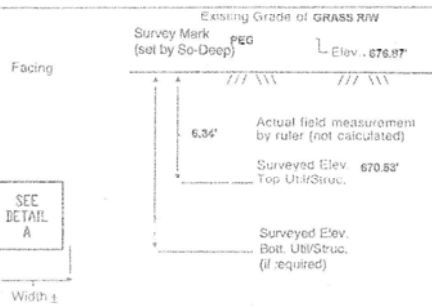
Soil Type HEAVY WATER

Field Condition IN GRASS RW

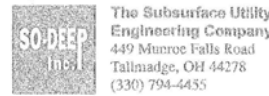
T.H. tied to PEG

SEE REMARKS\*  
Size/Material/Type  
Portion of pipe exposed  
for O.D. measurement.  
OTHER, (SEE REMARKS)

Remarks: \*CREW FOUND AN UNK. SIZE D.I. WATER LINE AND A 2 1/2" COATED STL. UNKNOWN FUNCTION LINE. CREW WAS UNABLE TO OBTAIN AN ACCURATE O.D. MEASUREMENT OF THE D.I. WATER LINE DUE TO COPIOUS AMOUNT OF WATER AND UNSTABLE GROUND CONDITIONS IN THE TEST HOLE. UTILITY RECORDS RESEARCH, TOPSIDE SURVEY AND ELECTRONIC DESIGNATING ALL INDICATE THAT THE TEST HOLE WAS DUG ON THE CORRECT UTILITY. SEE DETAIL "A"



TEST HOLE #40



The Subsurface Utility Engineering Company  
449 Munroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

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Corporate Headquarters:  
8397 Euclid Avenue  
Manassas Park, VA 20111  
(703) 361-6005

Control # SILC153  
Test Hole # 41  
Plan Scale 1"=20'  
Sheet # 5  
Proposed CATCH BASIN  
Date SEPTEMBER 21, 2009

City, County, State CITY OF PRINCETON, IL  
Gen. Loc. SE CORNER OF IL 26 @ PROGRESS DR  
Recorded Size/Material/Type 2" COATED STL. GAS LINE  
Foreman/Truck#/Form By E. CARROLL / 219 / R. MOONEY

Condition of paving prior to work  
NO PAVING

B.M. 1 Elev. = 677.60'  
is GIVEN Description: (TR #502) P.K. NAIL FOUND, 26.28' RT OF PROPOSED CL STA 282+07.39, IL 26

B.M. 2 Elev. = 677.18'  
is GIVEN Description: (BM #101) RR SPIKE FOUND, AT BASE OF U.P., 59.07' LT OF PROPOSED CL STA 284+38.26, IL 26

Benchmarks check BY 0.02'  
Elevations are referenced to B.M.#1

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole.

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed YELLOW

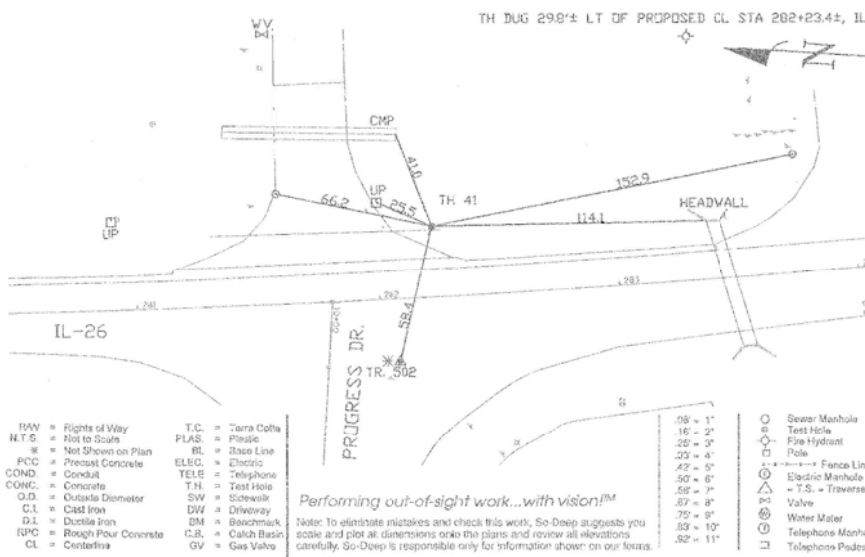
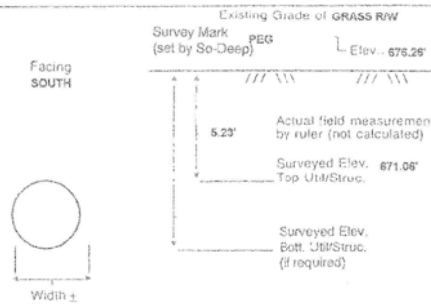
Soil Type MOIST BROWN

Field Condition IN GRASS RW

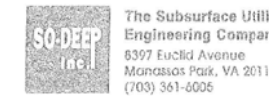
T.H. tied to PEG

SEE REMARKS\*  
Size/Material/Type  
Portion of pipe exposed  
for O.D. measurement.  
FULL

Remarks: NONE



TEST HOLE #41



The Subsurface Utility Engineering Company  
449 Munroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

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Corporate Headquarters:  
8397 Euclid Avenue  
Manassas Park, VA 20111  
(703) 361-6005

Control # SILC153  
Test Hole # 42  
Plan Scale 1"=20'  
Sheet # 5  
Proposed BOX CULVERT  
Date SEPTEMBER 21, 2009

City, County, State CITY OF PRINCETON, IL  
Gen. Loc. IL 26 JUST S. OF PROGRESS DR  
Recorded Size/Material/Type UNK. SIZE & TYPE CTY LINE  
Foreman/Truck#/Form By E. CARROLL / 219 / R. MOONEY

Condition of paving prior to work  
NO PAVING

B.M. 1 Elev. = 677.60'  
is GIVEN Description: (TR #502) P.K. NAIL FOUND, 26.28' RT OF PROPOSED CL STA 282+07.39, IL 26

B.M. 2 Elev. = 677.18'  
is GIVEN Description: (BM #101) RR SPIKE FOUND, AT BASE OF U.P., 59.07' LT OF PROPOSED CL STA 284+38.26, IL 26

Benchmarks check BY 0.02'  
Elevations are referenced to B.M.#2

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole.

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed ORANGE

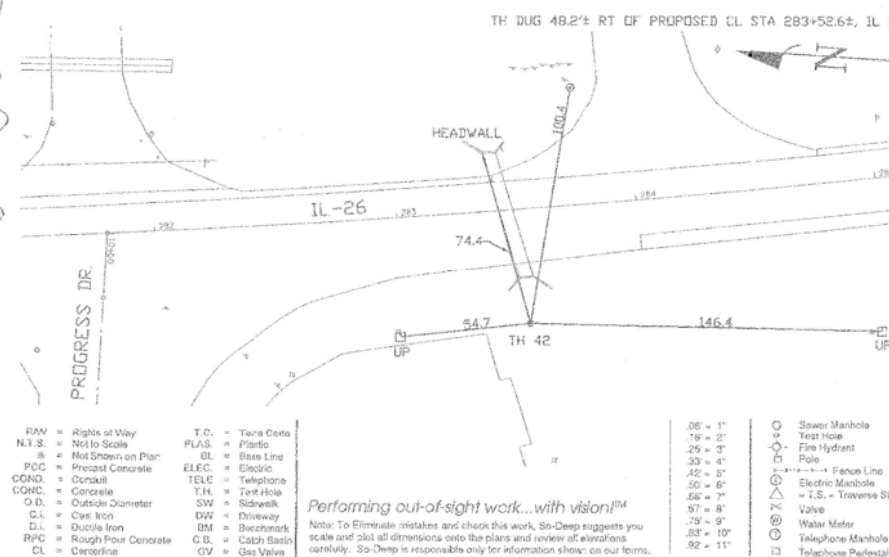
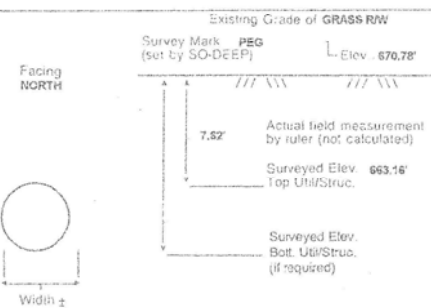
Soil Type MOST BROWN

Field Condition IN GRASS RW

T.H. tied to PEG

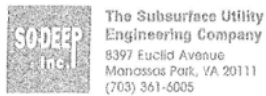
SEE REMARKS\*  
Size/Material/Type  
Portion of pipe exposed  
for O.D. measurement.  
FULL

Remarks: NONE



TEST HOLE #42

FILE NAME = D03306-SHT-SUE-TH.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUBSURFACE UTILITY ENGINEERING TEST HOLES SHEETS	F.A.P. RTE. 316	SECTION (116) R,T	COUNTY BUREAU	TOTAL SHEETS 221	SHEET NO. 179		
PLOT SCALE = 1"=1'	CHECKED - JOHNSON, B	REVISED -				SCALE:	SHEET NO. 14 OF 20 SHEETS	STA. 1625+49.62 TO STA. 295+14.27	ILLINOIS FED. AID PROJECT	CONTRACT NO. 66901		
PLOT DATE = \$DATE\$	DATE - \$DATE\$	REVISED -										



The Subsurface Utility Engineering Company  
8397 Euclid Avenue  
Monroes Park, VA 20111  
(703) 361-6005

### So-Deep Test Hole Certification Form

© So-Deep, Inc. 1988, 1991

City, County, State CITY OF PRINCETON, IL  
Gen. Loc. W. SIDE IL 26 FRONT OF PILOT TRAVEL CENTER  
Recorded Size/Material/Type UNK. SIZE & TYPE (VERTICAL) TELE. LINE  
Foreman/Truck/Form By E. CARROLL / 219 / R. MOONEY

Condition of paving prior to work  
NO PAVING

Control # SILC153  
Test Hole # 43  
Plan Scale 1"=20'  
Sheet # 5  
Proposed GRADE CHANGE  
Date SEPTEMBER 25, 2009

B.M. 1 Elev. = 677.60'  
is GIVEN Description: (TR #502) P.K. NAIL FOUND, 26.28' RT OF PROPOSED CL STA 282+07.39, IL 26

B.M. 2 Elev. = 677.18'  
is GIVEN Description: (BM #101) RR SPIKE FOUND, AT BASE OF U.P., 69.07' LT OF PROPOSED CL STA 284+38.26, IL 26

SO-DEEP will attempt to use the BM#1 most applicable to your design. If however, BMs differ by more than .05, resulting differences could cause design conflicts.

Benchmarks check BY 0.02'  
Elevations are referenced to B.M.#1

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole.

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed ORANGE

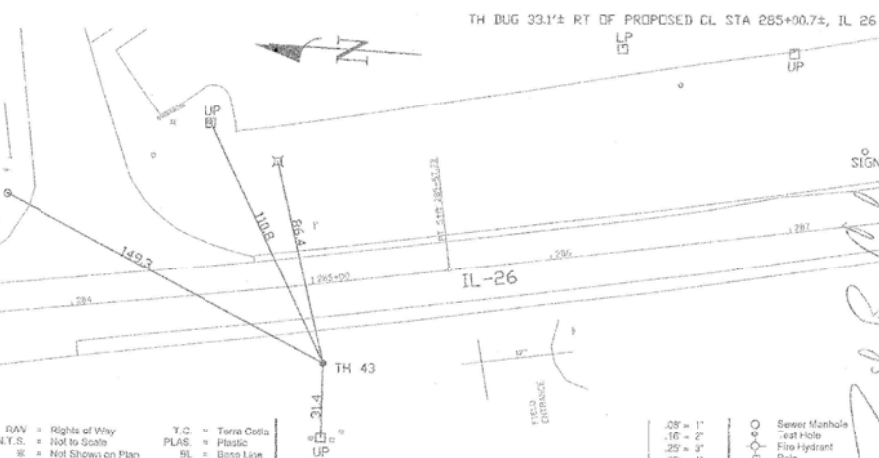
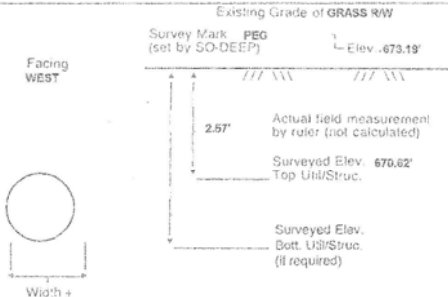
Soil Type MOIST BROWN

Field Condition IN GRASS RW

T.H. tied to PEG

1" TELE. CABLE  
Size/Material/Type  
Portion of pipe exposed for O.D. measurement:  
FULL

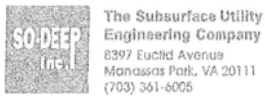
Remarks: NONE



- RAV = Rights of Way
- N.T.S. = Not to Scale
- PL = Not Shown on Plan
- PCC = Precast Concrete
- COND. = Conduit
- CONC. = Concrete
- O.D. = Outside Diameter
- C.I. = Cast Iron
- D.I. = Ductile Iron
- RPC = Rough Pour Concrete
- CL = Centerline
- T.C. = Terra Cotta
- PLAS. = Plastic
- BL = Base Line
- ELEC. = Electric
- TELE. = Telephone
- T.H. = Test Hole
- SW = Sidewalk
- DW = Driveway
- BM = Benchmark
- C.B. = Catch Basin
- GV = Gas Valve
- SM = Sewer Manhole
- F.H. = Fire Hydrant
- Pole = Pole
- F.L. = Face Line
- EM = Electric Manhole
- T.S. = Transverse Station
- Valve = Valve
- Water Meter = Water Meter
- Telephone Manhole = Telephone Manhole
- Telephone Pedestal = Telephone Pedestal

Performing out-of-sight work...with vision!<sup>SM</sup>  
Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

TEST HOLE #43



The Subsurface Utility Engineering Company  
8397 Euclid Avenue  
Monroes Park, VA 20111  
(703) 361-6005

### So-Deep Test Hole Certification Form

© So-Deep, Inc. 1988, 1991

City, County, State CITY OF PRINCETON, IL  
Gen. Loc. IL 26 IN FRONT OF PILOT TRAVEL CENTER  
Recorded Size/Material/Type 2" COATED STL. GAS LINE  
Foreman/Truck/Form By E. CARROLL / 219 / R. MOONEY

Condition of paving prior to work  
NO PAVING

Control # SILC153  
Test Hole # 44  
Plan Scale 1"=20'  
Sheet # 5  
Proposed GRADE CHANGE  
Date SEPTEMBER 22, 2009

B.M. 1 Elev. = 677.60'  
is GIVEN Description: (TR #502) P.K. NAIL FOUND, 26.28' RT OF PROPOSED CL STA 282+07.39, IL 26

B.M. 2 Elev. = 677.18'  
is GIVEN Description: (BM #101) RR SPIKE FOUND, AT BASE OF U.P., 69.07' LT OF PROPOSED CL STA 284+38.26, IL 26

SO-DEEP will attempt to use the BM#1 most applicable to your design. If however, BMs differ by more than .05, resulting differences could cause design conflicts.

Benchmarks check BY 0.02'  
Elevations are referenced to B.M.#1

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole.

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed YELLOW

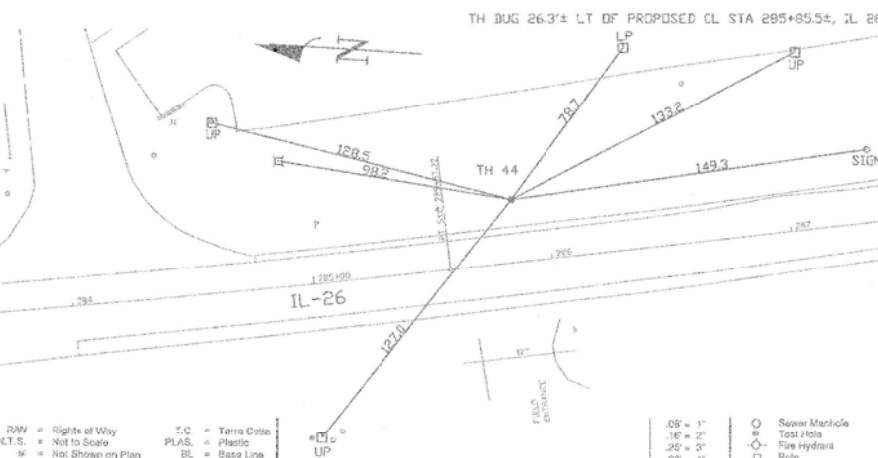
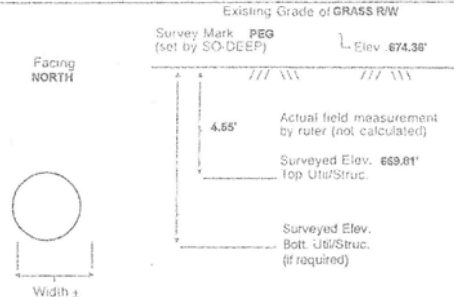
Soil Type MOIST BROWN

Field Condition IN GRASS RW

T.H. tied to PEG

2 1/2" COATED STL. GAS LINE  
Size/Material/Type  
Portion of pipe exposed for O.D. measurement:  
FULL

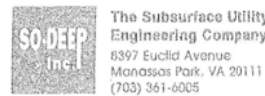
Remarks: NONE



- RAV = Rights of Way
- N.T.S. = Not to Scale
- PL = Not Shown on Plan
- PCC = Precast Concrete
- COND. = Conduit
- CONC. = Concrete
- O.D. = Outside Diameter
- C.I. = Cast Iron
- D.I. = Ductile Iron
- RPC = Rough Pour Concrete
- CL = Centerline
- T.C. = Terra Cotta
- PLAS. = Plastic
- BL = Base Line
- ELEC. = Electric
- TELE. = Telephone
- T.H. = Test Hole
- SW = Sidewalk
- DW = Driveway
- BM = Benchmark
- C.B. = Catch Basin
- GV = Gas Valve
- SM = Sewer Manhole
- F.H. = Fire Hydrant
- Pole = Pole
- F.L. = Face Line
- EM = Electric Manhole
- T.S. = Transverse Station
- Valve = Valve
- Water Meter = Water Meter
- Telephone Manhole = Telephone Manhole
- Telephone Pedestal = Telephone Pedestal

Performing out-of-sight work...with vision!<sup>SM</sup>  
Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

TEST HOLE #44



The Subsurface Utility Engineering Company  
8397 Euclid Avenue  
Monroes Park, VA 20111  
(703) 361-6005

### So-Deep Test Hole Certification Form

© So-Deep, Inc. 1988, 1991

City, County, State CITY OF PRINCETON, IL  
Gen. Loc. IL 26 IN FRONT OF PILOT TRAVEL CENTER  
Recorded Size/Material/Type 10" UNK. TYPE SANITARY SEWER  
Foreman/Truck/Form By E. CARROLL / 219 / R. MOONEY

Condition of paving prior to work  
NO PAVING

Control # SILC153  
Test Hole # 45  
Plan Scale 1"=20'  
Sheet # 5  
Proposed GATCH BASIN  
Date SEPTEMBER 22, 2009

B.M. 1 Elev. = 677.60'  
is GIVEN Description: (TR #502) P.K. NAIL FOUND, 26.28' RT OF PROPOSED CL STA 282+07.39, IL 26

B.M. 2 Elev. = 677.18'  
is GIVEN Description: (BM #101) RR SPIKE FOUND, AT BASE OF U.P., 69.07' LT OF PROPOSED CL STA 284+38.26, IL 26

SO-DEEP will attempt to use the BM#1 most applicable to your design. If however, BMs differ by more than .05, resulting differences could cause design conflicts.

Benchmarks check BY 0.02'  
Elevations are referenced to B.M.#1

Recorded Size/Type of utility WAS FOUND

There WERE additional utilities in the test hole.

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed BLUE

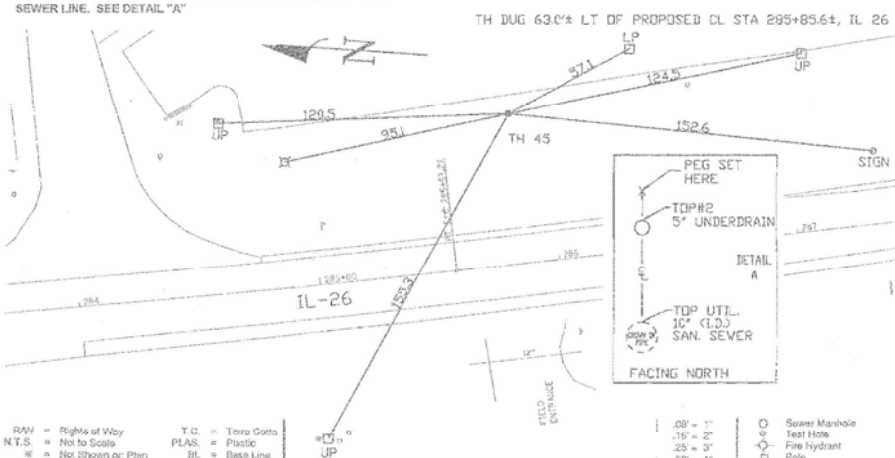
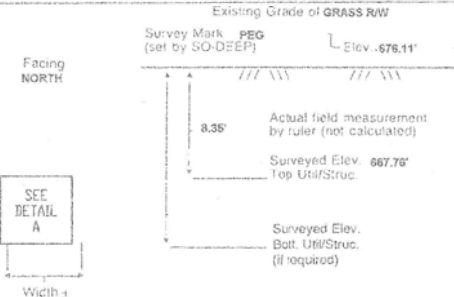
Soil Type MOIST BROWN

Field Condition IN GRASS RW

T.H. tied to PEG

10" (I.D.) TERRA COTTA SANITARY SEWER LINE  
Size/Material/Type  
Portion of pipe exposed for O.D. measurement:  
FULL

Remarks: CREW WAS UNABLE TO OBTAIN AN ACCURATE O.D. MEASUREMENT DUE TO COPIOUS AMOUNT OF WATER AND UNSTABLE GROUND CONDITIONS. UTILITY RECORDS RESEARCH AND TOPSIDE SURVEY BOTH INDICATE THAT THE TEST HOLE WAS DUG ON THE CORRECT UTILITY. CREW ALSO FOUND A 6" PLASTIC UNDERDRAIN DIRECTLY ABOVE AND PARALLEL TO THE 10" SAN. SEWER LINE. SEE DETAIL "A"



- RAV = Rights of Way
- N.T.S. = Not to Scale
- PL = Not Shown on Plan
- PCC = Precast Concrete
- COND. = Conduit
- CONC. = Concrete
- O.D. = Outside Diameter
- C.I. = Cast Iron
- D.I. = Ductile Iron
- RPC = Rough Pour Concrete
- CL = Centerline
- T.C. = Terra Cotta
- PLAS. = Plastic
- BL = Base Line
- ELEC. = Electric
- TELE. = Telephone
- T.H. = Test Hole
- SW = Sidewalk
- DW = Driveway
- BM = Benchmark
- C.B. = Catch Basin
- GV = Gas Valve
- SM = Sewer Manhole
- F.H. = Fire Hydrant
- Pole = Pole
- F.L. = Face Line
- EM = Electric Manhole
- T.S. = Transverse Station
- Valve = Valve
- Water Meter = Water Meter
- Telephone Manhole = Telephone Manhole
- Telephone Pedestal = Telephone Pedestal

Performing out-of-sight work...with vision!<sup>SM</sup>  
Note: To Eliminate mistakes and check this work, So-Deep suggests you scale and plot all dimensions onto the plans and review all elevations carefully. So-Deep is responsible only for information shown on our forms.

TEST HOLE #45

FILE NAME = D03306-SHT-SUE-TH.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUBSURFACE UTILITY ENGINEERING TEST HOLES SHEETS	F.A.P. RTE. = 316	SECTION = (116) R,T	COUNTY = BUREAU	TOTAL SHEETS = 221	SHEET NO. = 180
PLOT SCALE = 1"=1'	CHECKED - JOHNSON, B	REVISED -	CONTRACT NO. 66901							
PLOT DATE = \$DATE\$	DATE - \$DATE\$	REVISED -	ILLINOIS FED. AID PROJECT							
SCALE: 1"=20'	SHEET NO. 15 OF 20 SHEETS	STA. 1625+49.62 TO STA. 295+14.27								





The Subsurface Utility Engineering Company  
449 Munroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

© So-Deep, Inc. 1988, 1994

Corporate Headquarters:  
8397 Euclid Avenue  
Monroeville, PA 15111  
(703) 361-6005

Control # SILC153  
Test Hole # 46  
Plan Scale 1"=20'  
Sheet # 3  
Proposed GRADE CHANGE  
Date SEPTEMBER 28, 2009

City, County, State CITY OF PRINCETON, IL  
Gen. Loc. IL 26 JUST LT. OF 1800 N. ROAD  
Recorded Size/Material/Type 4" UNK. TYPE GAS LINE  
Foreman/Truck#/Form By E. CARROLL / 219 / R. MOONEY

Condition of paving prior to work  
NO PAVING

B.M. 1 Elev. = 689.24'  
is GIVEN  
B.M. 2 Elev. = 684.45'  
is GIVEN

Description: (BM #103) TOP CHIS "X" NW MOST BOLT ON F.H.,  
43.92' LT OF PROPOSED CL STA 1640+72.29, IL 26  
Description: (BM #104) TOP COTTON PICKER SPINDLE @  
BASE OF U.P., 42.35' LT OF PROPOSED CL STA 1632+20.56,  
IL 26

So-Deep will attempt to use the  
BMM most applicable to your  
design. If however, BMM differ by  
more than .02', resulting differences  
could cause design conflicts.

Benchmarks check BY 0.02'  
Elevations are referenced to B.M.#2

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole.

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed YELLOW

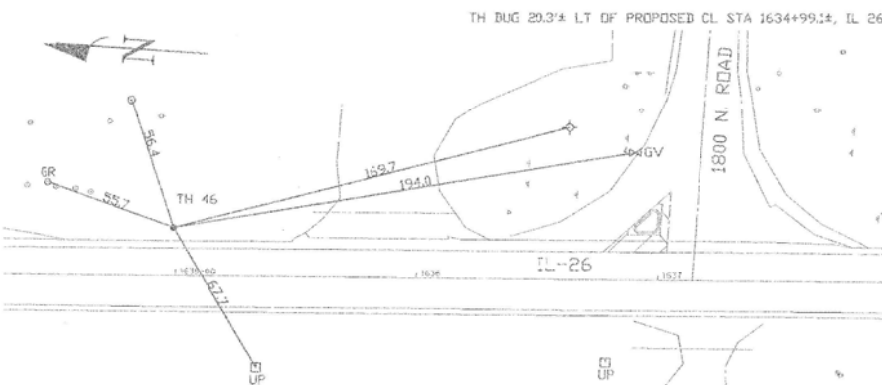
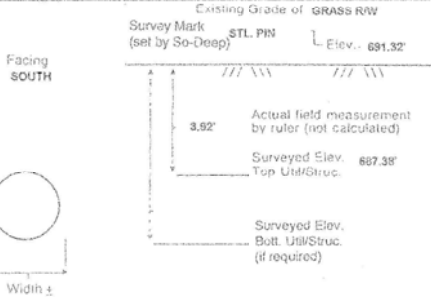
Soil Type MOIST BROWN

Field Condition IN GRASS RW

T.H. tied to STL PIN

4 3/4" COATED STL. GAS LINE  
Size/Material/Type  
Portion of pipe exposed  
for O.D. measurement:  
FULL

Remarks: NONE



- |                           |                    |            |                           |
|---------------------------|--------------------|------------|---------------------------|
| R/W = Rights of Way       | T.C. = Terra Cotta | .28' = 1"  | ○ Sewer Manhole           |
| N.T.S. = Not to Scale     | PLAS = Plastic     | .16' = 2"  | ○ Test Hole               |
| * = Not Shown on Plan     | DL = Ductile Iron  | .25' = 3"  | ○ Fire Hydrant            |
| PCC = Precast Concrete    | ELC = Electric     | .33' = 4"  | ○ Pole                    |
| COND. = Conduit           | TELE = Telephone   | .42' = 5"  | ○ Fence Line              |
| CONC. = Concrete          | T.H. = Test Hole   | .50' = 6"  | ○ Electric Manhole        |
| O.D. = Outside Diameter   | SW = Sidewalk      | .58' = 7"  | ○ T.S. = Traverse Station |
| C.I. = Cast Iron          | DW = Driveway      | .67' = 8"  | ○ Valve                   |
| D.I. = Ductile Iron       | BM = Benchmark     | .75' = 9"  | ○ Water Meter             |
| RPC = Rough Pour Concrete | C.B. = Catch Basin | .83' = 10" | ○ Telephone Manhole       |
| CL = Centerline           | GV = Gas Valve     | .92' = 11" | □ Telephone Pedestal      |

TEST HOLE #46



The Subsurface Utility Engineering Company  
449 Munroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

© So-Deep, Inc. 1988, 1994

Corporate Headquarters:  
8397 Euclid Avenue  
Monroeville, PA 15111  
(703) 361-6005

Control # SILC153  
Test Hole # 47  
Plan Scale 1"=20'  
Sheet # 3  
Proposed GRADE CHANGE  
Date SEPTEMBER 28, 2009

City, County, State CITY OF PRINCETON, IL  
Gen. Loc. IL 26 JUST LT. OF 1800 N. ROAD  
Recorded Size/Material/Type 3" UNK. TYPE GAS LINE  
Foreman/Truck#/Form By E. CARROLL / 219 / R. MOONEY

Condition of paving prior to work  
NO PAVING

B.M. 1 Elev. = 689.24'  
is GIVEN  
B.M. 2 Elev. = 684.45'  
is GIVEN

Description: (BM #103) TOP CHIS "X" NW MOST BOLT ON F.H.,  
43.92' LT OF PROPOSED CL STA 1640+72.29, IL 26  
Description: (BM #104) TOP COTTON PICKER SPINDLE @  
BASE OF U.P., 42.35' LT OF PROPOSED CL STA 1632+20.56,  
IL 26

So-Deep will attempt to use the  
BMM most applicable to your  
design. If however, BMM differ by  
more than .02', resulting differences  
could cause design conflicts.

Benchmarks check BY 0.02'  
Elevations are referenced to B.M.#2

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole.

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed YELLOW

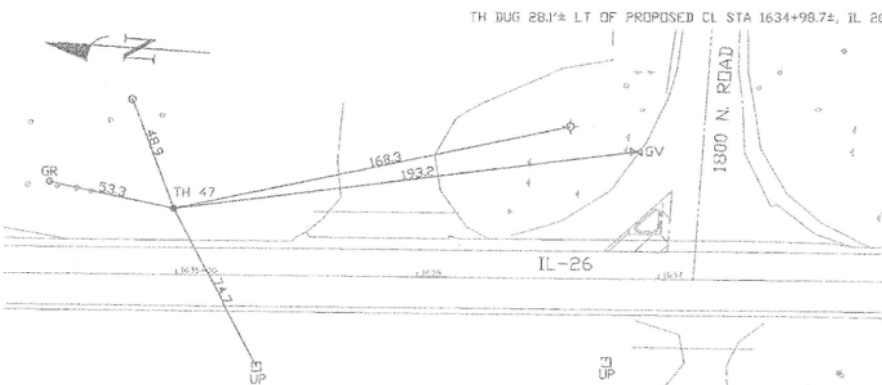
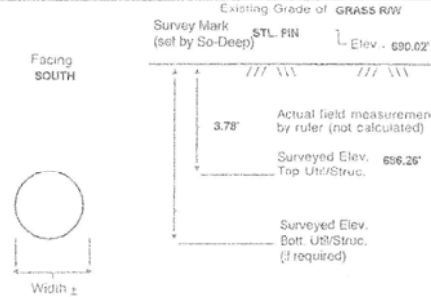
Soil Type MOIST BROWN

Field Condition IN GRASS RW

T.H. tied to STL PIN

3 3/4" W/STL. GAS LINE  
Size/Material/Type  
Portion of pipe exposed  
for O.D. measurement:  
FULL

Remarks: NONE



- |                           |                    |            |                           |
|---------------------------|--------------------|------------|---------------------------|
| R/W = Rights of Way       | T.C. = Terra Cotta | .28' = 1"  | ○ Sewer Manhole           |
| N.T.S. = Not to Scale     | PLAS = Plastic     | .16' = 2"  | ○ Test Hole               |
| * = Not Shown on Plan     | DL = Ductile Iron  | .25' = 3"  | ○ Fire Hydrant            |
| PCC = Precast Concrete    | ELC = Electric     | .33' = 4"  | ○ Pole                    |
| COND. = Conduit           | TELE = Telephone   | .42' = 5"  | ○ Fence Line              |
| CONC. = Concrete          | T.H. = Test Hole   | .50' = 6"  | ○ Electric Manhole        |
| O.D. = Outside Diameter   | SW = Sidewalk      | .58' = 7"  | ○ T.S. = Traverse Station |
| C.I. = Cast Iron          | DW = Driveway      | .67' = 8"  | ○ Valve                   |
| D.I. = Ductile Iron       | BM = Benchmark     | .75' = 9"  | ○ Water Meter             |
| RPC = Rough Pour Concrete | C.B. = Catch Basin | .83' = 10" | ○ Telephone Manhole       |
| CL = Centerline           | GV = Gas Valve     | .92' = 11" | □ Telephone Pedestal      |

TEST HOLE #47



The Subsurface Utility Engineering Company  
449 Munroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

© So-Deep, Inc. 1988, 1994

Corporate Headquarters:  
8397 Euclid Avenue  
Monroeville, PA 15111  
(703) 361-6005

Control # SILC153  
Test Hole # 48  
Plan Scale 1"=20'  
Sheet # 3  
Proposed FORM & HIG  
Date SEPTEMBER 28, 2009

City, County, State CITY OF PRINCETON, IL  
Gen. Loc. SE CORNER IL 26 & 1800 N. ROAD  
Recorded Size/Material/Type UNK. SIZE & TYPE TELE. LINE  
Foreman/Truck#/Form By E. CARROLL / 219 / R. MOONEY

Condition of paving prior to work  
NO PAVING

B.M. 1 Elev. = 689.24'  
is GIVEN  
B.M. 2 Elev. = 684.45'  
is GIVEN

Description: (BM #103) TOP CHIS "X" NW MOST BOLT ON F.H.,  
43.92' LT OF PROPOSED CL STA 1640+72.29, IL 26  
Description: (BM #104) TOP COTTON PICKER SPINDLE @  
BASE OF U.P., 42.35' LT OF PROPOSED CL STA 1632+20.56,  
IL 26

So-Deep will attempt to use the  
BMM most applicable to your  
design. If however, BMM differ by  
more than .02', resulting differences  
could cause design conflicts.

Benchmarks check BY 0.02'  
Elevations are referenced to B.M.#2

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole.

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed ORANGE

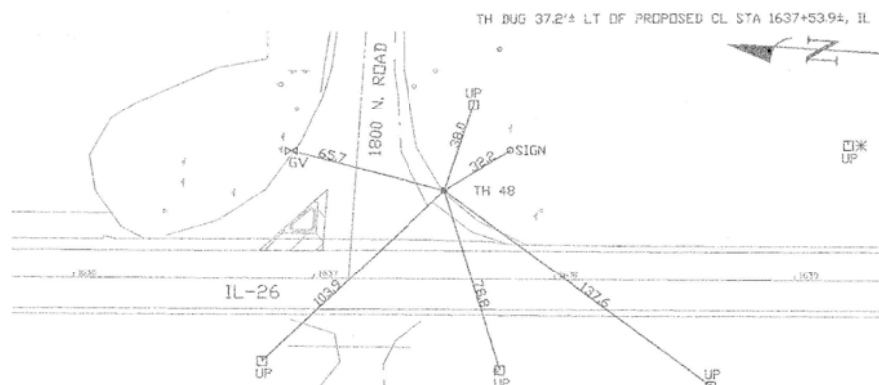
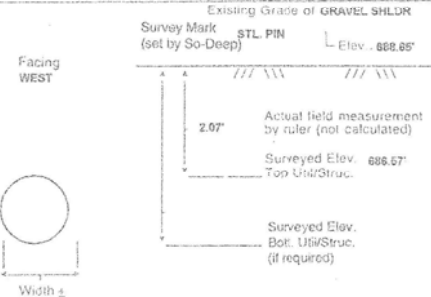
Soil Type MOIST BROWN

Field Condition GRAVEL SHLDR

T.H. tied to STL PIN

1" TELE. CABLE  
Size/Material/Type  
Portion of pipe exposed  
for O.D. measurement:  
FULL

Remarks: NONE



- |                           |                    |            |                           |
|---------------------------|--------------------|------------|---------------------------|
| R/W = Rights of Way       | T.C. = Terra Cotta | .28' = 1"  | ○ Sewer Manhole           |
| N.T.S. = Not to Scale     | PLAS = Plastic     | .16' = 2"  | ○ Test Hole               |
| * = Not Shown on Plan     | DL = Ductile Iron  | .25' = 3"  | ○ Fire Hydrant            |
| PCC = Precast Concrete    | ELC = Electric     | .33' = 4"  | ○ Pole                    |
| COND. = Conduit           | TELE = Telephone   | .42' = 5"  | ○ Fence Line              |
| CONC. = Concrete          | T.H. = Test Hole   | .50' = 6"  | ○ Electric Manhole        |
| O.D. = Outside Diameter   | SW = Sidewalk      | .58' = 7"  | ○ T.S. = Traverse Station |
| C.I. = Cast Iron          | DW = Driveway      | .67' = 8"  | ○ Valve                   |
| D.I. = Ductile Iron       | BM = Benchmark     | .75' = 9"  | ○ Water Meter             |
| RPC = Rough Pour Concrete | C.B. = Catch Basin | .83' = 10" | ○ Telephone Manhole       |
| CL = Centerline           | GV = Gas Valve     | .92' = 11" | □ Telephone Pedestal      |

TEST HOLE #48

FILE NAME = D03306-SHT-SUE-TH.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUBSURFACE UTILITY ENGINEERING TEST HOLES SHEETS	F.A.P. RTE. = 316	SECTION = (116) R,T	COUNTY = BUREAU	TOTAL SHEETS = 221	SHEET NO. = 181
PLOT SCALE = 1"=1'	CHECKED - JOHNSON, B	REVISED -	SCALE =			SHEET NO. 16 OF 20 SHEETS	STA. 1625+49.62 TO STA. 295+14.27	ILLINOIS FED. AID PROJECT		
PLOT DATE = \$DATE\$	DATE = \$DATE\$	REVISED -	CONTRACT NO. 66901							



The Subsurface Utility Engineering Company  
449 Munroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

© So-Deep, Inc. 1988, 1994

City, County, State CITY OF PRINCETON, IL  
Gen. Loc. SE CORNER IL 26 & 1800 N. ROAD  
Recorded Size/Material/Type 4" UNK. TYPE GAS LINE  
Foreman/Truck/Form By E. CARROLL / 219 / R. MOONEY

Condition of paving prior to work  
NO PAVING

Corporate Headquarters:  
8397 Euclid Avenue  
Manassas Park, VA 20111  
(703) 361-6005

Control # SILC153  
Test Hole # 49  
Plan Scale 1"=20'  
Sheet # 3  
Proposed GRADE CHANGE  
Date SEPTEMBER 28, 2009

B.M. 1 Elev. = 689.24'  
IS GIVEN

Description: (BM #103) TOP CHIS "X" NW MOST BOLT ON F.H.,  
43.92' LT OF PROPOSED CL STA 1640+72.29, IL 26

B.M. 2 Elev. = 694.45'  
IS GIVEN

Description: (BM #104) TOP COTTON PICKER SPINDLE @  
BASE OF U.P., 42.35' LT OF PROPOSED CL STA 1632+20.56,  
IL 26

Benchmarks check BY 0.02'  
Elevations are referenced to B.M.#2

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole.

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed YELLOW

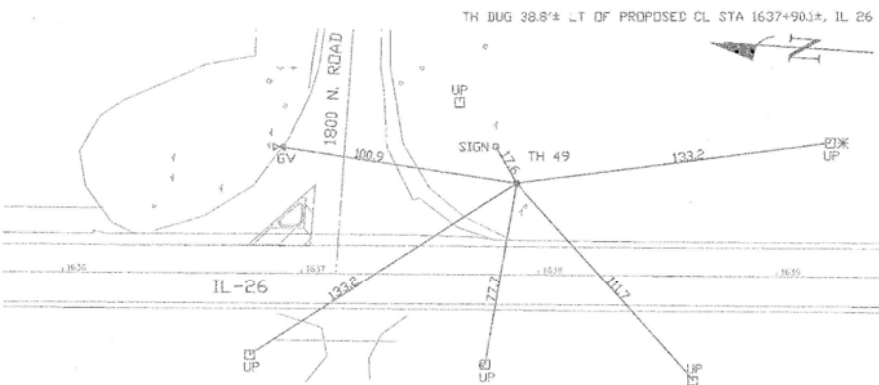
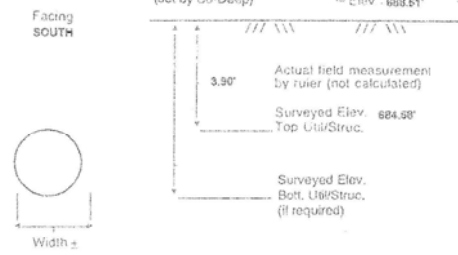
Soil Type MOIST BROWN

Field Condition IN GRASS RW

T.H. tied to STL PIN

4 3/4" COATED STL. GAS LINE  
Size/Material/Type  
Portion of pipe exposed  
for O.D. measurement:  
FULL

Remarks: NONE



R/W = Rights of Way	T.C. = Terra Cotta	16" = 2"	○ = Sewer Manhole
N.T.S. = Not to Scale	PLAS = Plastic	18" = 2"	○ = Test Hole
█ = Not Shown on Plan	BL = Bare Line	24" = 2"	○ = Fire Hydrant
PC = Precast Concrete	ELEC = Electric	30" = 4"	○ = Pole
CONC = Concrete	TELE = Telephone	42" = 4"	○ = Fence Line
CONC = Concrete	T.H. = Test Hole	48" = 6"	○ = Electric Manhole
O.D. = Outside Diameter	SW = Sidewalk	54" = 7"	△ = T.S. = Traverse Station
C.I. = Cast Iron	DW = Driveway	60" = 8"	⊕ = Valve
D.I. = Ductile Iron	BM = Benchmark	72" = 9"	⊕ = Water Meter
RPC = Rough Pour Concrete	C.B. = Catch Basin	84" = 10"	⊕ = Telephone Manhole
CL = Centerline	GV = Gas Valve	96" = 11"	⊕ = Telephone Pedestal

TEST HOLE #49



The Subsurface Utility Engineering Company  
449 Munroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

© So-Deep, Inc. 1988, 1994

City, County, State CITY OF PRINCETON, IL  
Gen. Loc. IL 26 S. OF 1800 N. ROAD  
Recorded Size/Material/Type UNK. SIZE & TYPE TELE LINE  
Foreman/Truck/Form By E. CARROLL / 219 / R. MOONEY

Condition of paving prior to work  
NO PAVING

Corporate Headquarters:  
8397 Euclid Avenue  
Manassas Park, VA 20111  
(703) 361-6005

Control # SILC153  
Test Hole # 50  
Plan Scale 1"=20'  
Sheet # 4  
Proposed GRADE CHANGE  
Date SEPTEMBER 28, 2009

B.M. 1 Elev. = 689.24'  
IS GIVEN

Description: (BM #103) TOP CHIS "X" NW MOST BOLT ON F.H.,  
43.92' LT OF PROPOSED CL STA 1640+72.29, IL 26

B.M. 2 Elev. = 694.45'  
IS GIVEN

Description: (BM #104) TOP COTTON PICKER SPINDLE @  
BASE OF U.P., 42.35' LT OF PROPOSED CL STA 1632+20.56,  
IL 26

Benchmarks check BY 0.02'  
Elevations are referenced to B.M.#2

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole.

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed ORANGE

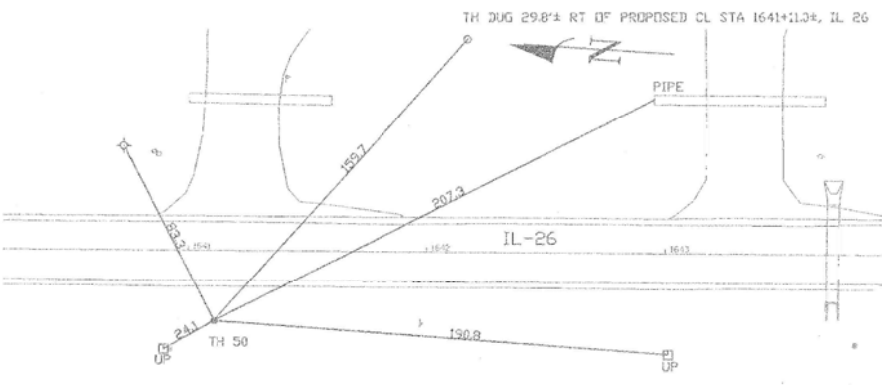
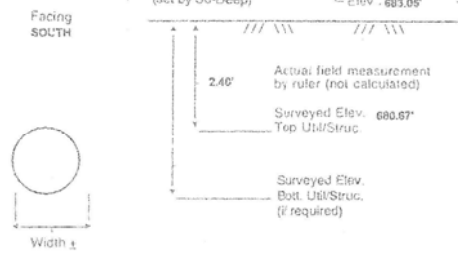
Soil Type MOIST BROWN

Field Condition IN GRASS RW

T.H. tied to PEG

1 1/4" TELE. CABLE  
Size/Material/Type  
Portion of pipe exposed  
for O.D. measurement:  
FULL

Remarks: NONE



R/W = Rights of Way	T.C. = Terra Cotta	16" = 2"	○ = Sewer Manhole
N.T.S. = Not to Scale	PLAS = Plastic	18" = 2"	○ = Test Hole
█ = Not Shown on Plan	BL = Bare Line	24" = 2"	○ = Fire Hydrant
PC = Precast Concrete	ELEC = Electric	30" = 4"	○ = Pole
CONC = Concrete	TELE = Telephone	42" = 4"	○ = Fence Line
CONC = Concrete	T.H. = Test Hole	48" = 6"	○ = Electric Manhole
O.D. = Outside Diameter	SW = Sidewalk	54" = 7"	△ = T.S. = Traverse Station
C.I. = Cast Iron	DW = Driveway	60" = 8"	⊕ = Valve
D.I. = Ductile Iron	BM = Benchmark	72" = 9"	⊕ = Water Meter
RPC = Rough Pour Concrete	C.B. = Catch Basin	84" = 10"	⊕ = Telephone Manhole
CL = Centerline	GV = Gas Valve	96" = 11"	⊕ = Telephone Pedestal

TEST HOLE #50



The Subsurface Utility Engineering Company  
449 Munroe Falls Road  
Tallmadge, OH 44278  
(330) 794-4455

### So-Deep Test Hole Certification Form

© So-Deep, Inc. 1988, 1994

City, County, State CITY OF PRINCETON, IL  
Gen. Loc. IL 26 S. OF 1800 N. ROAD  
Recorded Size/Material/Type UNK. SIZE & TYPE TELE. LINE  
Foreman/Truck/Form By E. CARROLL / 219 / R. MOONEY

Condition of paving prior to work  
NO PAVING

Corporate Headquarters:  
8397 Euclid Avenue  
Manassas Park, VA 20111  
(703) 361-6005

Control # SILC153  
Test Hole # 51  
Plan Scale 1"=20'  
Sheet # 4  
Proposed STORM X-ING  
Date SEPTEMBER 28, 2009

B.M. 1 Elev. = 689.24'  
IS GIVEN

Description: (BM #103) TOP CHIS "X" NW MOST BOLT ON F.H.,  
43.92' LT OF PROPOSED CL STA 1640+72.29, IL 26

B.M. 2 Elev. = 694.45'  
IS GIVEN

Description: (BM #104) TOP COTTON PICKER SPINDLE @  
BASE OF U.P., 42.35' LT OF PROPOSED CL STA 1632+20.56,  
IL 26

Benchmarks check BY 0.02'  
Elevations are referenced to B.M.#2

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole.

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed ORANGE

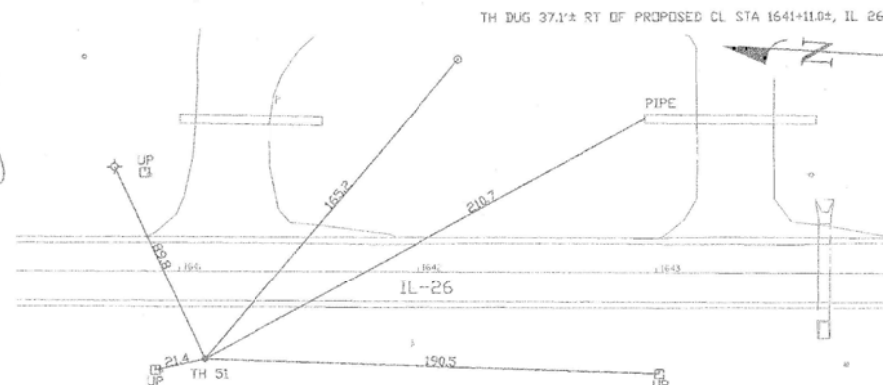
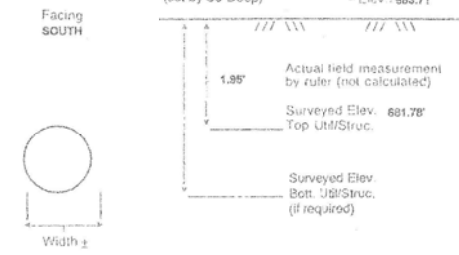
Soil Type MOIST BROWN

Field Condition IN GRASS RW

T.H. tied to PEG

1/2" TELE. CABLE  
Size/Material/Type  
Portion of pipe exposed  
for O.D. measurement:  
FULL

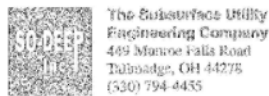
Remarks: NONE



R/W = Rights of Way	T.C. = Terra Cotta	16" = 2"	○ = Sewer Manhole
N.T.S. = Not to Scale	PLAS = Plastic	18" = 2"	○ = Test Hole
█ = Not Shown on Plan	BL = Bare Line	24" = 2"	○ = Fire Hydrant
PC = Precast Concrete	ELEC = Electric	30" = 4"	○ = Pole
CONC = Concrete	TELE = Telephone	42" = 4"	○ = Fence Line
CONC = Concrete	T.H. = Test Hole	48" = 6"	○ = Electric Manhole
O.D. = Outside Diameter	SW = Sidewalk	54" = 7"	△ = T.S. = Traverse Station
C.I. = Cast Iron	DW = Driveway	60" = 8"	⊕ = Valve
D.I. = Ductile Iron	BM = Benchmark	72" = 9"	⊕ = Water Meter
RPC = Rough Pour Concrete	C.B. = Catch Basin	84" = 10"	⊕ = Telephone Manhole
CL = Centerline	GV = Gas Valve	96" = 11"	⊕ = Telephone Pedestal

TEST HOLE #51

FILE NAME = 083306-SHT-SUE-TH.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUBSURFACE UTILITY ENGINEERING TEST HOLES SHEETS			F.A.P. RTE. 316	SECTION (116) R.T	COUNTY BUREAU	TOTAL SHEETS 221	SHEET NO. 182
PLOT SCALE = 1"=1'		DRAWN - RAMIREZ, P	REVISED -		SCALE:	SHEET NO. 17 OF 20 SHEETS	STA. 1625+49.62 TO STA. 295+14.27	ILLINOIS FED. AID PROJECT				
PLOT DATE = #DATE#		CHECKED - JOHNSON, B	REVISED -		CONTRACT NO. 66901							
		DATE - #DATE#	REVISED -									



### So-Deep Test Hole Certification Form

Corporate Headquarters:  
8397 Euclid Avenue  
Manassas Park, VA 20111  
(703) 361-6006

Control # SR0183  
Test Hole # 52  
Plan Scale 1"=20'  
Sheet # 5  
Prepared STORH X-842  
Date SEPTEMBER 29, 2009

City, County, State CITY OF PRINCETON, IL  
Gen. Loc. IL 26 JUST N. OF PROGRESS DR.  
Recorded Size/Material/Type 4" URB. TYPE WATER  
Form and Truck # Form By E. CARROLL / 219 / R. MOONEY

Condition of paving prior to work  
**NO PAVING**

B.M. 1 Elev. = 677.69'  
is GIVEN

Description: (TR 8502) P.K. NAIL FOUND, 26.25' RT OF PROPOSED CL STA 282+07.55, IL 26

So-Deep will attempt to use the BSM if most applicable to your design. If however, BSM differ by more than .02', resulting differences could cause design conflicts.

B.M. 2 Elev. = 677.18'  
is GIVEN

Description: (BM #101) RR SPIKE FOUND, AT BASE OF U.P., 89.01' LT OF PROPOSED CL STA 284+38.26, IL 26

Benchmarks check BY 0.02'  
Elevations are referenced to B.M.#2

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole.

The utility **WAS** in good condition.

Paving Thickness and type **NO PAVING**

Color of ribbon installed **BLUE**

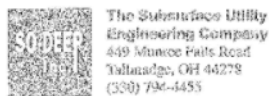
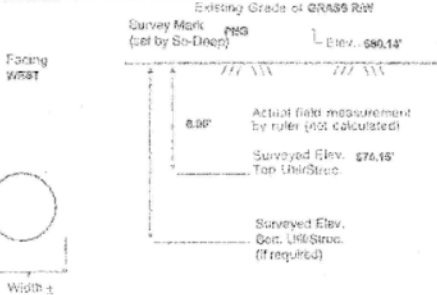
Soil Type **MOIST BROWN**

Field Condition **IN GRASS RW**

T.H. tied to PEG

1" COPPER WATER LINE  
Size/Material/Type  
Portion of pipe exposed for O.D. measurement:  
**FULL**

Remarks: NONE



### So-Deep Test Hole Certification Form

Corporate Headquarters:  
8397 Euclid Avenue  
Manassas Park, VA 20111  
(703) 361-6006

Control # SR0183  
Test Hole # 53  
Plan Scale 1"=20'  
Sheet # 4  
Prepared STORH X-842  
Date SEPTEMBER 29, 2009

City, County, State CITY OF PRINCETON, IL  
Gen. Loc. IL 26 JUST N. OF PROGRESS DR.  
Recorded Size/Material/Type 1" COPPER WATER LINE  
Form and Truck # Form By E. CARROLL / 219 / R. MOONEY

Condition of paving prior to work  
**NO PAVING**

B.M. 1 Elev. = 677.89'  
is GIVEN

Description: (TR 8510) P.K. NAIL FOUND, 26.25' RT OF PROPOSED CL STA 282+07.55, IL 26

So-Deep will attempt to use the BSM if most applicable to your design. If however, BSM differ by more than .02', resulting differences could cause design conflicts.

B.M. 2 Elev. = 677.18'  
is GIVEN

Description: (BM #101) RR SPIKE FOUND, AT BASE OF U.P., 89.01' LT OF PROPOSED CL STA 284+38.26, IL 26

Benchmarks check BY 0.02'  
Elevations are referenced to B.M.#2

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole.

The utility **WAS** in good condition.

Paving Thickness and type **NO PAVING**

Color of ribbon installed **BLUE**

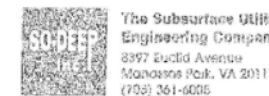
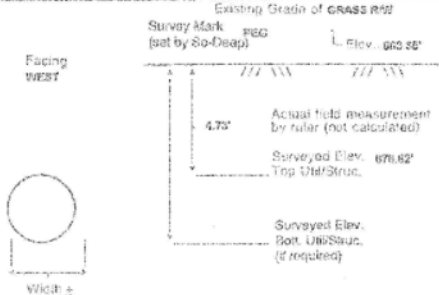
Soil Type **MOIST BROWN**

Field Condition **IN GRASS RW**

T.H. tied to PEG

1" COPPER WATER LINE  
Size/Material/Type  
Portion of pipe exposed for O.D. measurement:  
**FULL**

Remarks: NONE



### So-Deep Test Hole Certification Form

Corporate Headquarters:  
8397 Euclid Avenue  
Manassas Park, VA 20111  
(703) 361-6006

Control # SR0183  
Test Hole # 54  
Plan Scale 1"=20'  
Sheet # 5  
Prepared GRADE CHANGE  
Date SEPTEMBER 21, 2009

City, County, State CITY OF PRINCETON, IL  
Gen. Loc. IL 26 JUST N. OF PROGRESS DR.  
Recorded Size/Material/Type 4" URB. TYPE GAS LINE  
Form and Truck # Form By E. CARROLL / 219 / R. MOONEY

Condition of paving prior to work  
**NO PAVING**

B.M. 1 Elev. = 677.50'  
is GIVEN

Description: (TR 8502) P.K. NAIL FOUND, 26.25' RT OF PROPOSED CL STA 282+07.55, IL 26

So-Deep will attempt to use the BSM if most applicable to your design. If however, BSM differ by more than .02', resulting differences could cause design conflicts.

B.M. 2 Elev. = 677.18'  
is GIVEN

Description: (BM #101) RR SPIKE FOUND, AT BASE OF U.P., 89.01' LT OF PROPOSED CL STA 284+38.26, IL 26

Benchmarks check BY 0.02'  
Elevations are referenced to B.M.#2

Recorded Size/Type of utility **WAS FOUND**

There **WERE NOT** additional utilities in the test hole.

The utility **WAS** in good condition.

Paving Thickness and type **NO PAVING**

Color of ribbon installed **YELLOW**

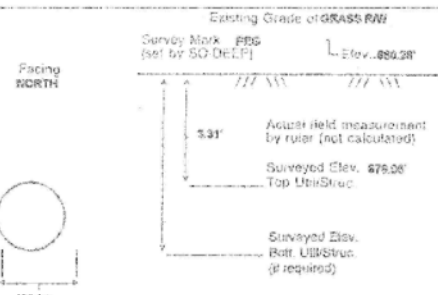
Soil Type **MOIST BROWN**

Field Condition **IN GRASS RW**

T.H. tied to PEG

4.54" COATED STL GAS LINE  
Size/Material/Type  
Portion of pipe exposed for O.D. measurement:  
**FULL**

Remarks: NONE



R. Ramirez

R. Ramirez

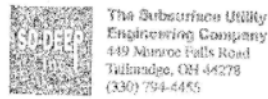
R. Ramirez

**TEST HOLE #52**

**TEST HOLE #53**

**TEST HOLE #54**

FILE NAME = D03306-SHT-SUE-TH.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUBSURFACE UTILITY ENGINEERING TEST HOLES SHEETS</b>	F.A.P. RTE. 316	SECTION (116) R,T	COUNTY BUREAU	TOTAL SHEETS 221	SHEET NO. 183
PLOT SCALE = 1"=1'	CHECKED - JOHNSON, B	REVISED -	SCALE:			SHEET NO. 18 OF 20 SHEETS	STA. 1625+49.62 TO STA. 295+14.27	ILLINOIS FED. AID PROJECT		
PLOT DATE = 1/13/2015	DATE - 1/13/2015	REVISED -	CONTRACT NO. 66901							



### So-Deep Test Hole Certification Form

Corporate Reorganization:  
8397 Euclid Avenue  
Manassas Park, VA 20111  
(703) 361-6006

City, County, State: CITY OF PRINCETON, IL  
Gen. Loc.: NW CORNER IL 26 & PROGRESS DR.  
Recorded Size/Type of Utility: UNK. SIZE & TYPE CTV LINE  
Foreman/Truck/Form By: E. CARROLL / 218 / R. MOONEY

Condition of paving prior to work: NO PAVING

B.M. 1 Elev. = 677.60'  
is GIVEN Description: (TR 8502) P.K. NAIL FOUND, 26.25' RT OF PROPOSED CL STA 202+07.25, IL 26

B.M. 2 Elev. = 677.18'  
is GIVEN Description: (BM #101) RR SPIKE FOUND, AT BASE OF U.P., 63.07' LT OF PROPOSED CL STA 204+38.26, IL 26

Benchmarks check BY 802  
Elevations are referenced to B.M.#2

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole.

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed ORANGE

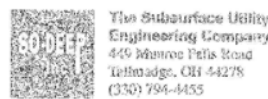
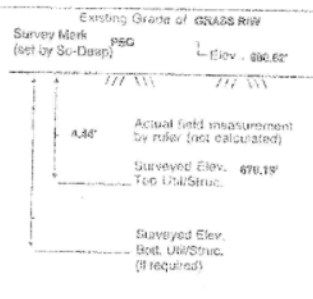
Soil Type MOIST BROWN

Field Condition IN GRASS RW

T.H. tied to PEG

2 1/2" PLASTIC CTV CONDUIT  
Size/Material type  
Portion of pipe exposed for O.D. measurement  
FULL

Remarks: NONE



### So-Deep Test Hole Certification Form

Corporate Reorganization:  
8397 Euclid Avenue  
Manassas Park, VA 20111  
(703) 361-6006

City, County, State: CITY OF PRINCETON, IL  
Gen. Loc.: PROGRESS DR. JUST S OF IL 26  
Recorded Size/Type of Utility: UNK. SIZE CTV CABLE  
Foreman/Truck/Form By: E. CARROLL / 218 / R. MOONEY

Condition of paving prior to work: NO PAVING

B.M. 1 Elev. = 677.60'  
is GIVEN Description: (TR 8502) P.K. NAIL FOUND, 26.25' RT OF PROPOSED CL STA 202+07.25, IL 26

B.M. 2 Elev. = 677.18'  
is GIVEN Description: (BM #101) RR SPIKE FOUND, AT BASE OF U.P., 63.07' LT OF PROPOSED CL STA 204+38.26, IL 26

Benchmarks check BY 802  
Elevations are referenced to B.M.#2

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole.

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed ORANGE

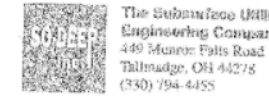
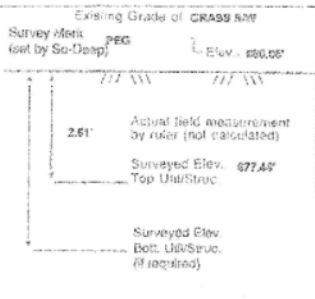
Soil Type MOIST BROWN

Field Condition IN GRASS RW

T.H. tied to PEG

3/4" CTV CABLE  
Size/Material type  
Portion of pipe exposed for O.D. measurement  
FULL

Remarks: NONE



### So-Deep Test Hole Certification Form

Corporate Reorganization:  
8397 Euclid Avenue  
Manassas Park, VA 20111  
(703) 361-6006

City, County, State: CITY OF PRINCETON, IL  
Gen. Loc.: IL 26 JUST S OF PROGRESS DR.  
Recorded Size/Type of Utility: UNK. SIZE & TYPE TELE. LINE  
Foreman/Truck/Form By: E. CARROLL / 218 / R. MOONEY

Condition of paving prior to work: NO PAVING

B.M. 1 Elev. = 677.60'  
is GIVEN Description: (TR 8502) P.K. NAIL FOUND, 26.25' RT OF PROPOSED CL STA 202+07.25, IL 26

B.M. 2 Elev. = 677.18'  
is GIVEN Description: (BM #101) RR SPIKE FOUND, AT BASE OF U.P., 63.07' LT OF PROPOSED CL STA 204+38.26, IL 26

Benchmarks check BY 802  
Elevations are referenced to B.M.#2

Recorded Size/Type of utility WAS FOUND

There WERE NOT additional utilities in the test hole.

The utility WAS in good condition.

Paving Thickness and type NO PAVING

Color of ribbon installed ORANGE

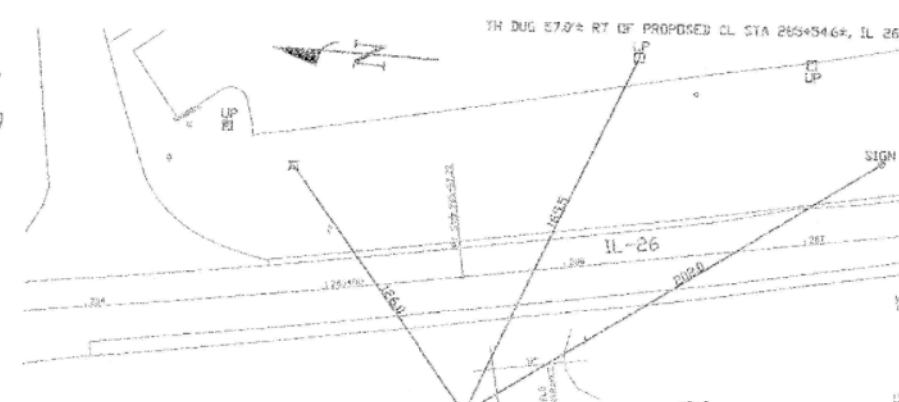
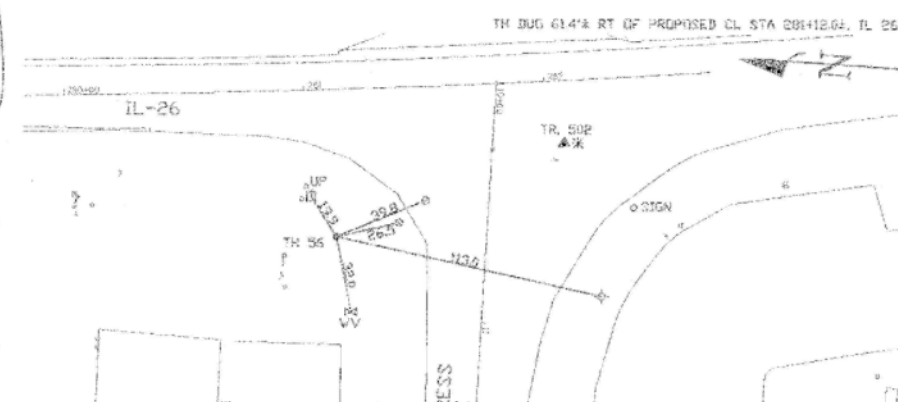
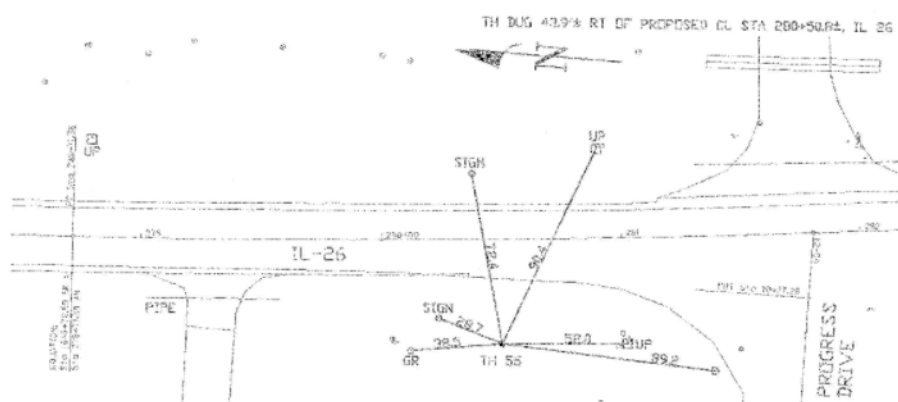
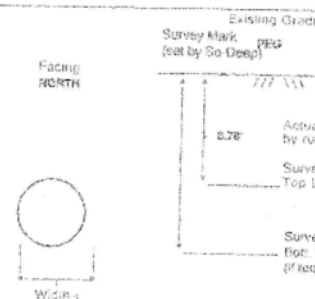
Soil Type MOIST BROWN

Field Condition IN GRASS RW

T.H. tied to PEG

3" TELE. CABLE  
Size/Material type  
Portion of pipe exposed for O.D. measurement  
FULL

Remarks: NONE



- R/W = Right of Way
- N.T.S. = Not To Scale
- PCD = Proposed Centerline
- CONC = Concrete
- CONC = Concrete
- O.D. = Outside Diameter
- CL = Centerline
- RPS = Rough-Pour Concrete
- CL = Centerline
- T.C. = Trench Cable
- PLAC. = Plastic
- ELC = Electric Line
- TELE = Telephone
- T.H. = Test Hole
- SW = Sewer
- DW = Driveway
- DM = Driveway
- CB = Catch Basin
- GV = Gas Valve
- Water Meters
- Fire Hydrant
- Flow
- Electric Meters
- T.S. = Traffic Station
- Water Meter
- Telephone Meters
- Telephone Poles

- R/W = Right of Way
- N.T.S. = Not To Scale
- PCD = Proposed Centerline
- CONC = Concrete
- O.D. = Outside Diameter
- CL = Centerline
- DL = Double Line
- RPS = Rough-Pour Concrete
- CL = Centerline
- T.C. = Trench Cable
- PLAC. = Plastic
- ELC = Electric Line
- TELE = Telephone
- T.H. = Test Hole
- SW = Sewer
- DW = Driveway
- DM = Driveway
- CB = Catch Basin
- GV = Gas Valve
- Water Meters
- Fire Hydrant
- Flow
- Electric Meters
- T.S. = Traffic Station
- Water Meter
- Telephone Meters
- Telephone Poles

- R/W = Right of Way
- N.T.S. = Not To Scale
- PCD = Proposed Centerline
- CONC = Concrete
- O.D. = Outside Diameter
- CL = Centerline
- DL = Double Line
- RPS = Rough-Pour Concrete
- CL = Centerline
- T.C. = Trench Cable
- PLAC. = Plastic
- ELC = Electric Line
- TELE = Telephone
- T.H. = Test Hole
- SW = Sewer
- DW = Driveway
- DM = Driveway
- CB = Catch Basin
- GV = Gas Valve
- Water Meters
- Fire Hydrant
- Flow
- Electric Meters
- T.S. = Traffic Station
- Water Meter
- Telephone Meters
- Telephone Poles

TEST HOLE #55

TEST HOLE #56

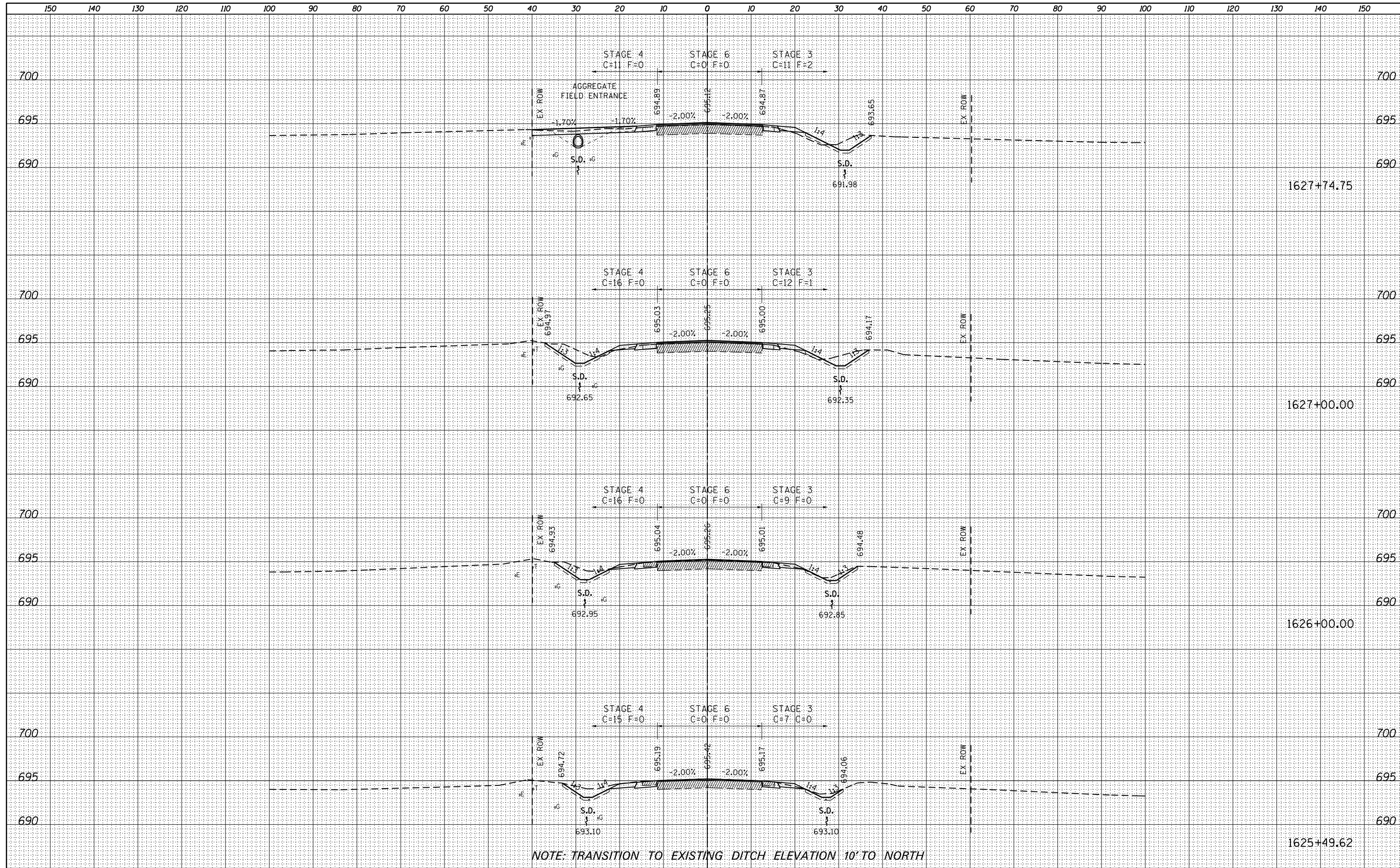
TEST HOLE #57

FILE NAME = D03306-SHT-SUE-TH.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SUBSURFACE UTILITY ENGINEERING</b>			F.A.P. R.T.E. = 316	SECTION = (116) R,T	COUNTY = BUREAU	TOTAL SHEETS = 221	SHEET NO. = 184
					<b>TEST HOLES SHEETS</b>			CONTRACT NO. 66901				
					SCALE: SHEET NO. 19 OF 20 SHEETS STA. 1625+49.62 TO STA. 295+14.27			ILLINOIS FED. AID PROJECT				
					DATE = 1/13/2015							



DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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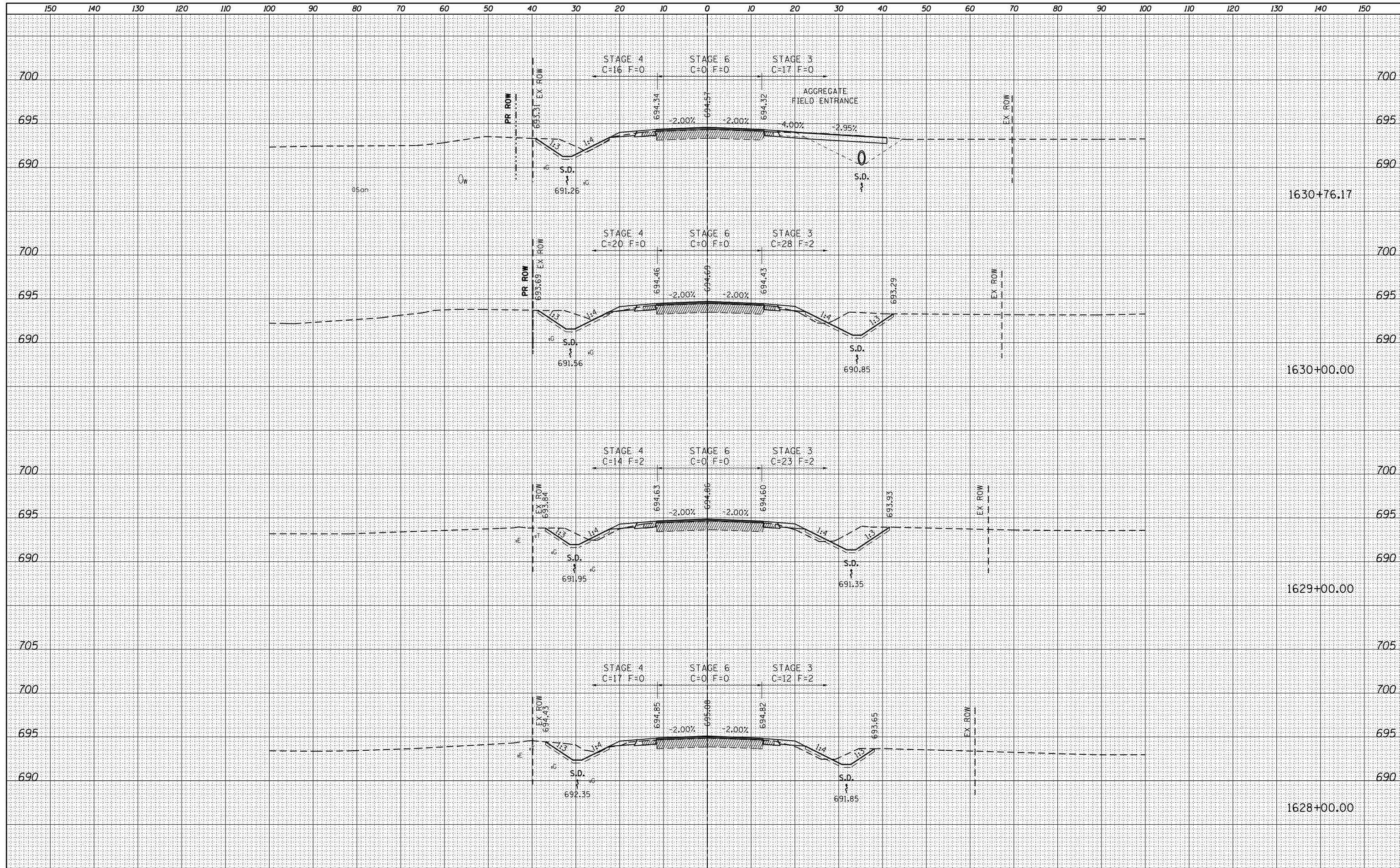


NOTE: TRANSITION TO EXISTING DITCH ELEVATION 10' TO NORTH

FILE NAME =	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>IL ROUTE 26 CROSS SECTIONS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D03306-SHT-XSHT.DGN		DRAWN - RAMIREZ, P	REVISED -					316	(116) R,T	BUREAU	221	186
		CHECKED - JOHNSON, B	REVISED -		SCALE: SHEET NO. 1 OF 36 SHEETS			TO STA.	CONTRACT NO. 66901			
		DATE - 1/13/2015	REVISED -					ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
CHECKED	
NO.	

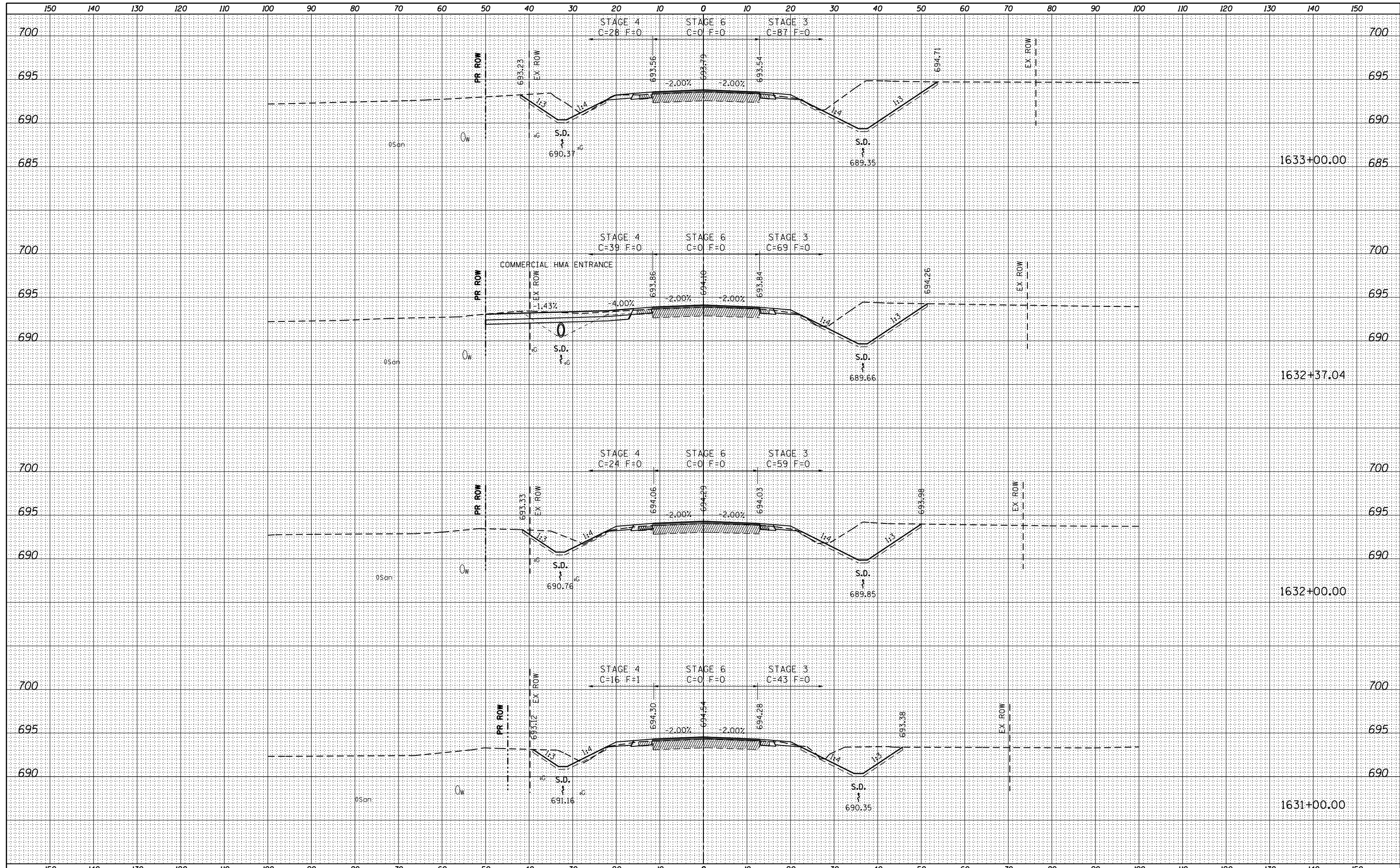
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
CHECKED	
NO.	



FILE NAME = D03306-SHT-XSHT.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>IL ROUTE 26 CROSS SECTIONS</b>		F.A.P. RTE. 316	SECTION (116) R,T	COUNTY BUREAU	TOTAL SHEETS 221	SHEET NO. 187
	PLOT SCALE = 1"=1'	CHECKED - JOHNSON, B	REVISED -		SCALE:	SHEET NO. 2 OF 36 SHEETS	STA.	CONTRACT NO. 66901		ILLINOIS FED. AID PROJECT	
	PLOT DATE = 1/13/2015	DATE - 1/13/2015	REVISED -				TO STA.				

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TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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NOTE BOOK	
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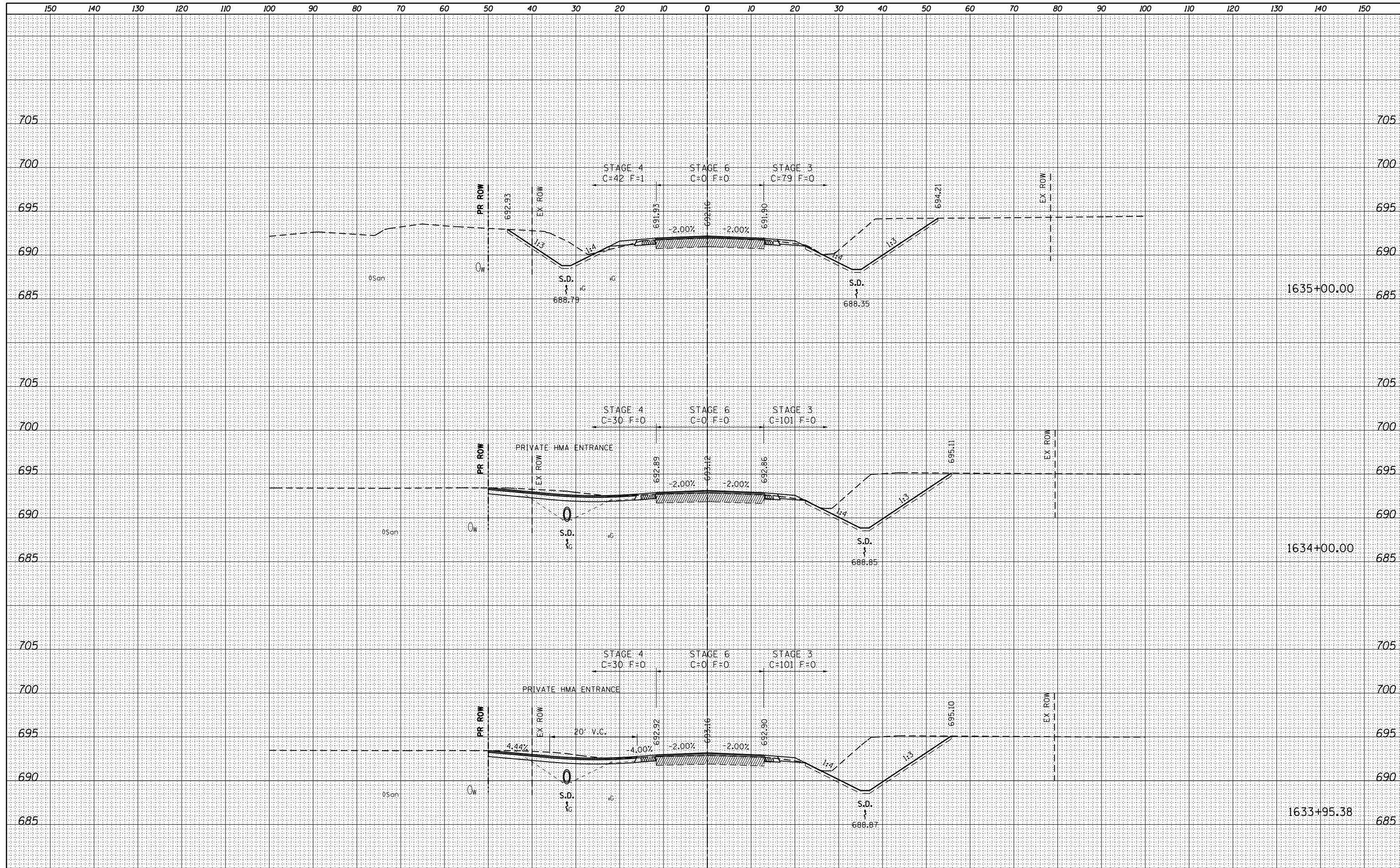


FILE NAME = D03306-SHT-XSHT.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISÉD -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>IL ROUTE 26 CROSS SECTIONS</b>		F.A.P. RTE. 316	SECTION (116) R,T	COUNTY	TOTAL SHEETS 221	SHEET NO. 188	
		DRAWN - RAMIREZ, P	REVISÉD -		SCALE:	SHEET NO. 3 OF 36 SHEETS	STA.	TO STA.	CONTRACT NO. 66901			
		CHECKED - JOHNSON, B	REVISÉD -		ILLINOIS FED. AID PROJECT							
		DATE - 1/13/2015	REVISÉD -									



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NOTE BOOK	PLOTTED
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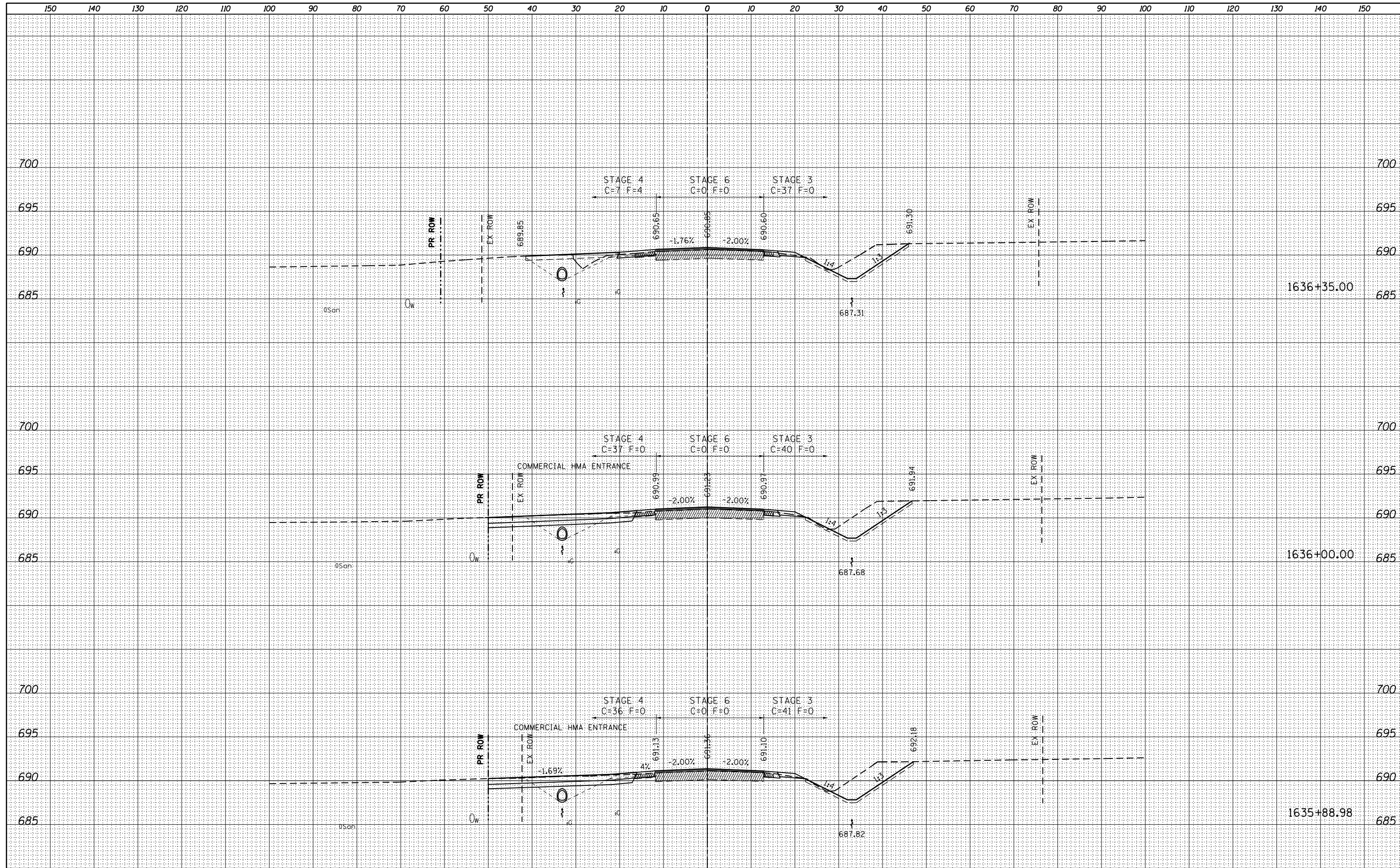
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



FILE NAME = D03306-SHT-XSHT.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISIED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL ROUTE 26 CROSS SECTIONS</b>		F.A.P. RTE. 316	SECTION (116) R,T	COUNTY BUREAU	TOTAL SHEETS 221	SHEET NO. 189	
	PLOT SCALE = 1"=1'	CHECKED - JOHNSON, B	REVISIED -		SCALE:	SHEET NO. 4 OF 36 SHEETS	STA.	TO STA.	CONTRACT NO. 66901			
	PLOT DATE = 1/13/2015	DATE - 1/13/2015	REVISIED -		ILLINOIS FED. AID PROJECT							

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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

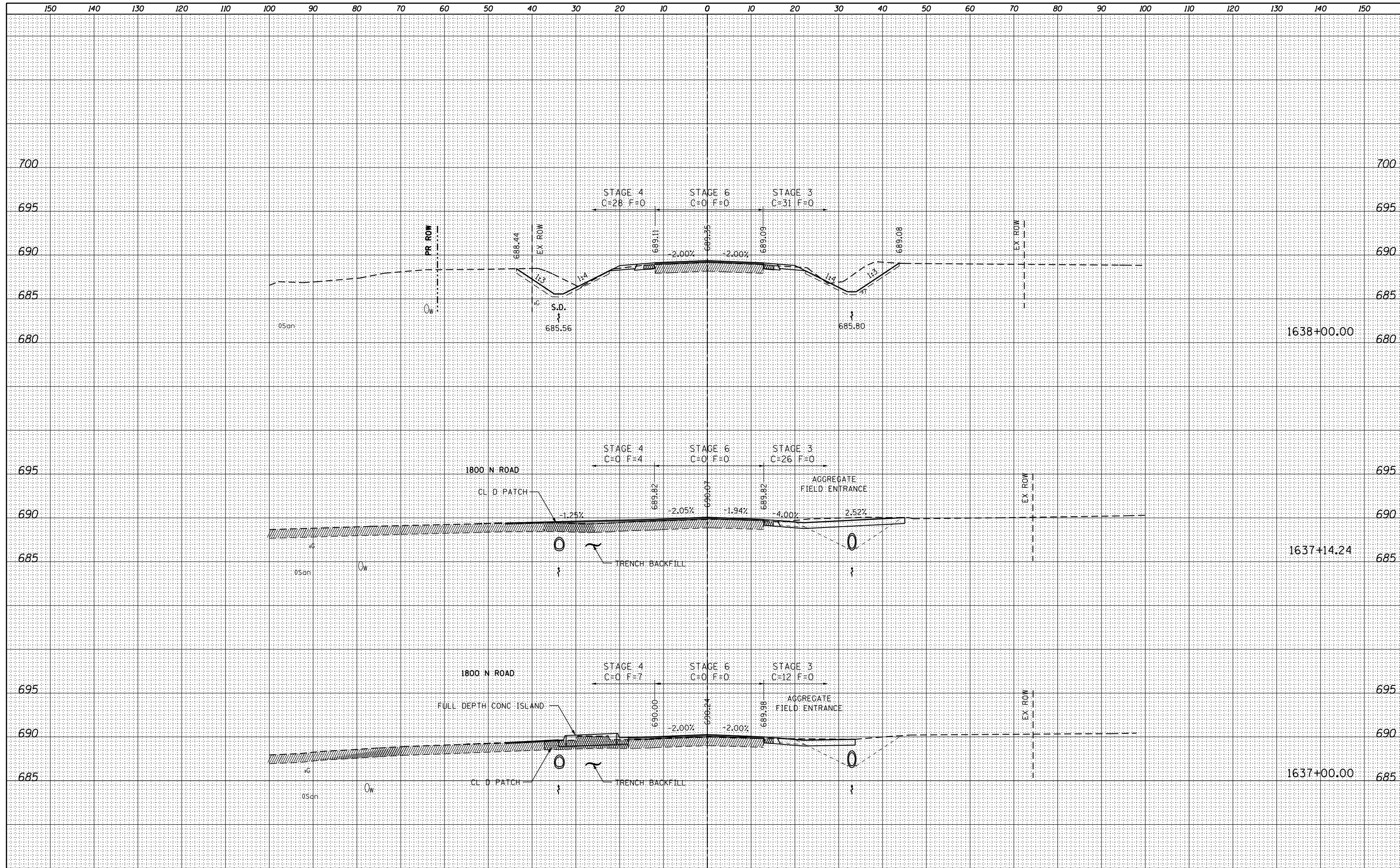
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED



FILE NAME = D03306-SHT-XSHT.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL ROUTE 26 CROSS SECTIONS</b>			F.A.P. RTE. 316	SECTION (116) R,T	COUNTY BUREAU	TOTAL SHEETS 221	SHEET NO. 190
	PLOT SCALE = 1"=1'	CHECKED - JOHNSON, B	REVISED -		SCALE:	SHEET NO. 5 OF 36 SHEETS	STA.	TO STA.	CONTRACT NO. 66901			
	PLOT DATE = 1/13/2015	DATE - 1/13/2015	REVISED -		ILLINOIS FED. AID PROJECT							

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FINAL SURVEY	
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TEMPLATE	
NOTE BOOK	
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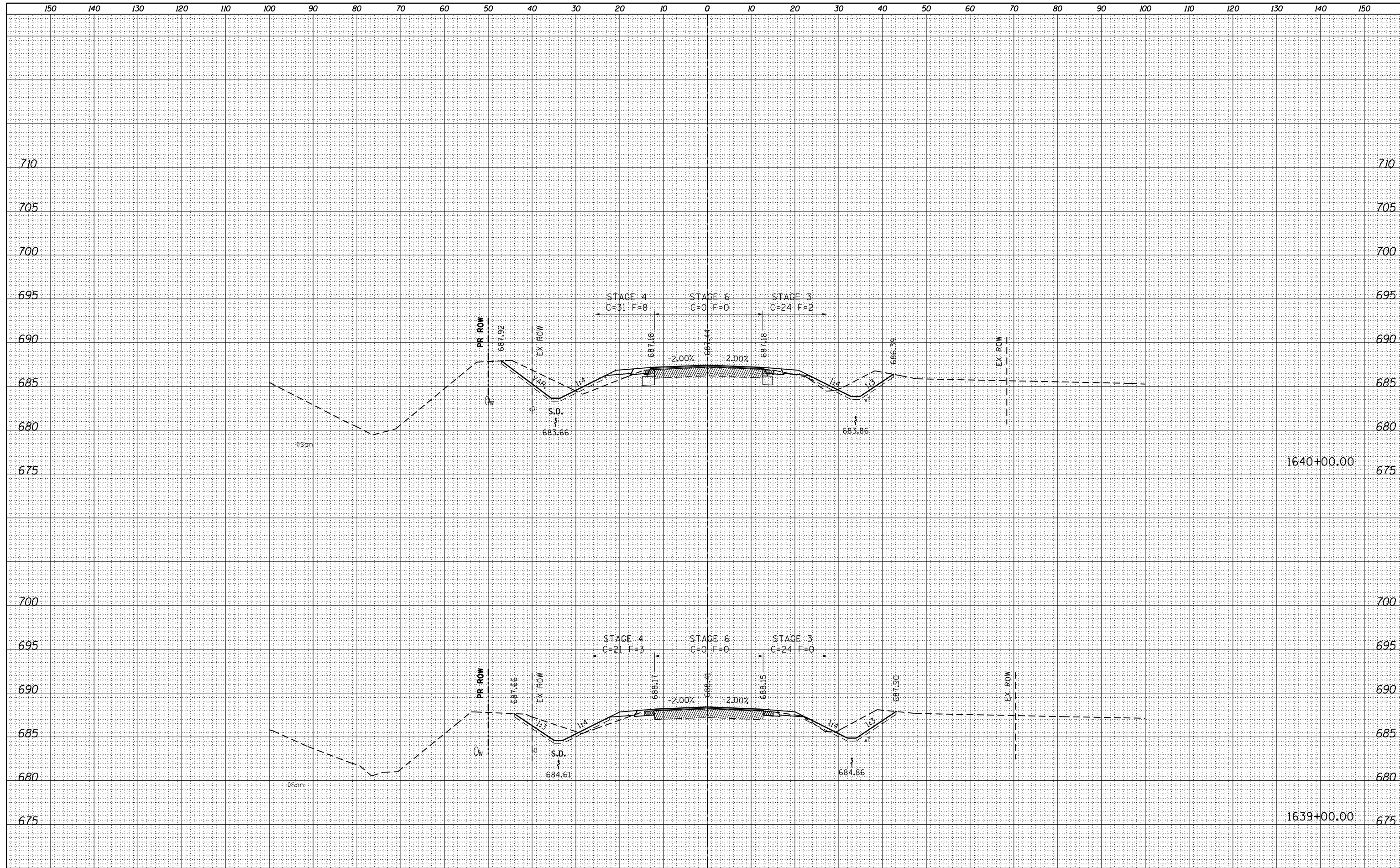
DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
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FILE NAME = D03306-SHT-XSHT.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL ROUTE 26 CROSS SECTIONS</b>		F.A.P. RTE. 316	SECTION (116) R,T	COUNTY BUREAU	TOTAL SHEETS 221	SHEET NO. 191	
	PLOT SCALE = 1"=1'	CHECKED - JOHNSON, B	REVISED -		SCALE:	SHEET NO. 6 OF 36 SHEETS	STA.	TO STA.		CONTRACT NO. 66901		
	PLOT DATE = 1/13/2015	DATE - 1/13/2015	REVISED -		ILLINOIS FED. AID PROJECT							

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AREAS CHECKED	
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NOTE BOOK	
AREAS CHECKED	
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FILE NAME = D03306-SHT-XSHT.DGN

USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -
	DRAWN - RAMIREZ, P	REVISED -
PLOT SCALE = 1"=1'	CHECKED - JOHNSON, B	REVISED -
PLOT DATE = 1/13/2015	DATE - 1/13/2015	REVISED -

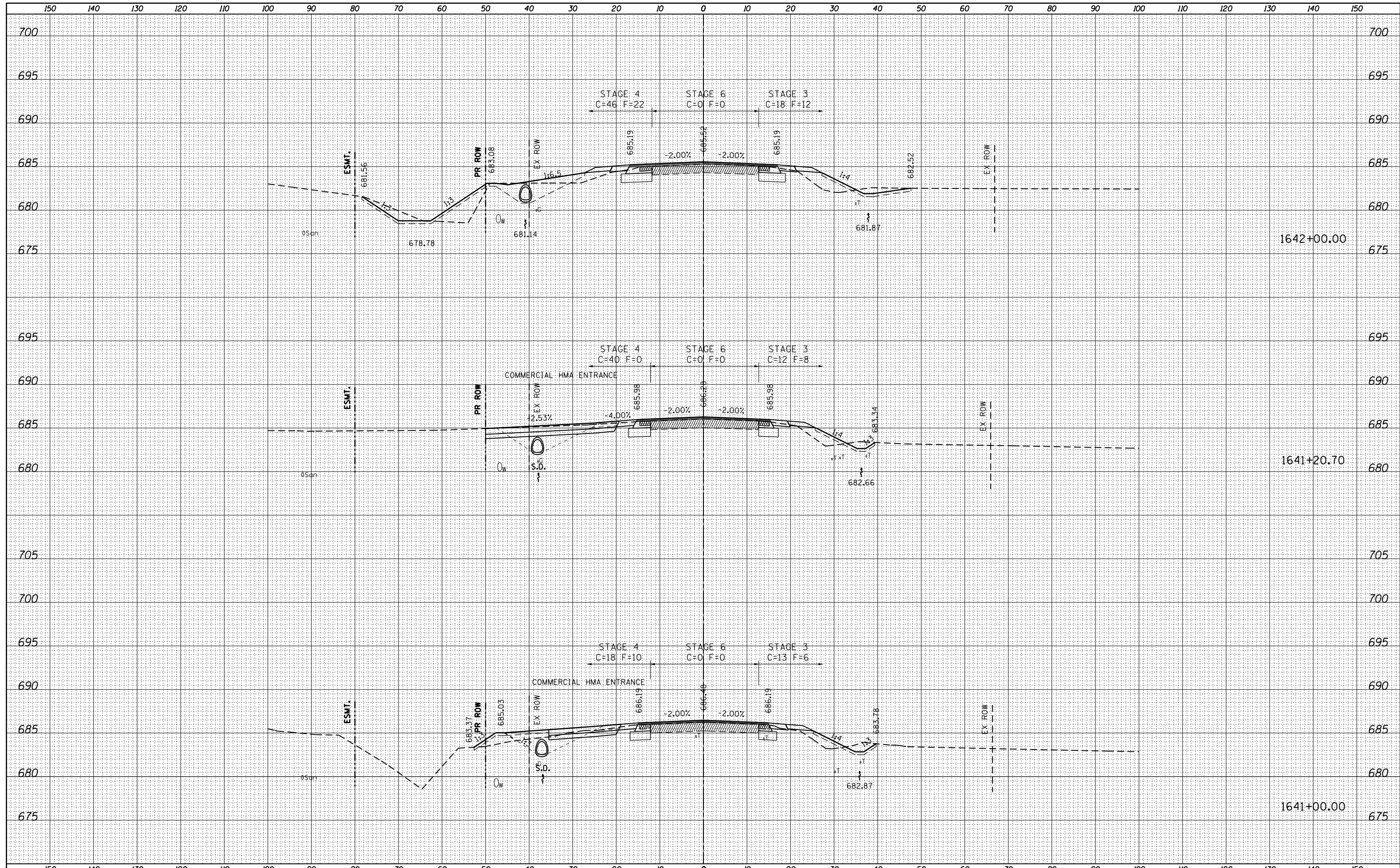
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

IL ROUTE 26 CROSS SECTIONS  
SCALE: SHEET NO. 7 OF 36 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(116) R,T	BUREAU	221	192
				CONTRACT NO. 66901
ILLINOIS FED. AID PROJECT				

DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
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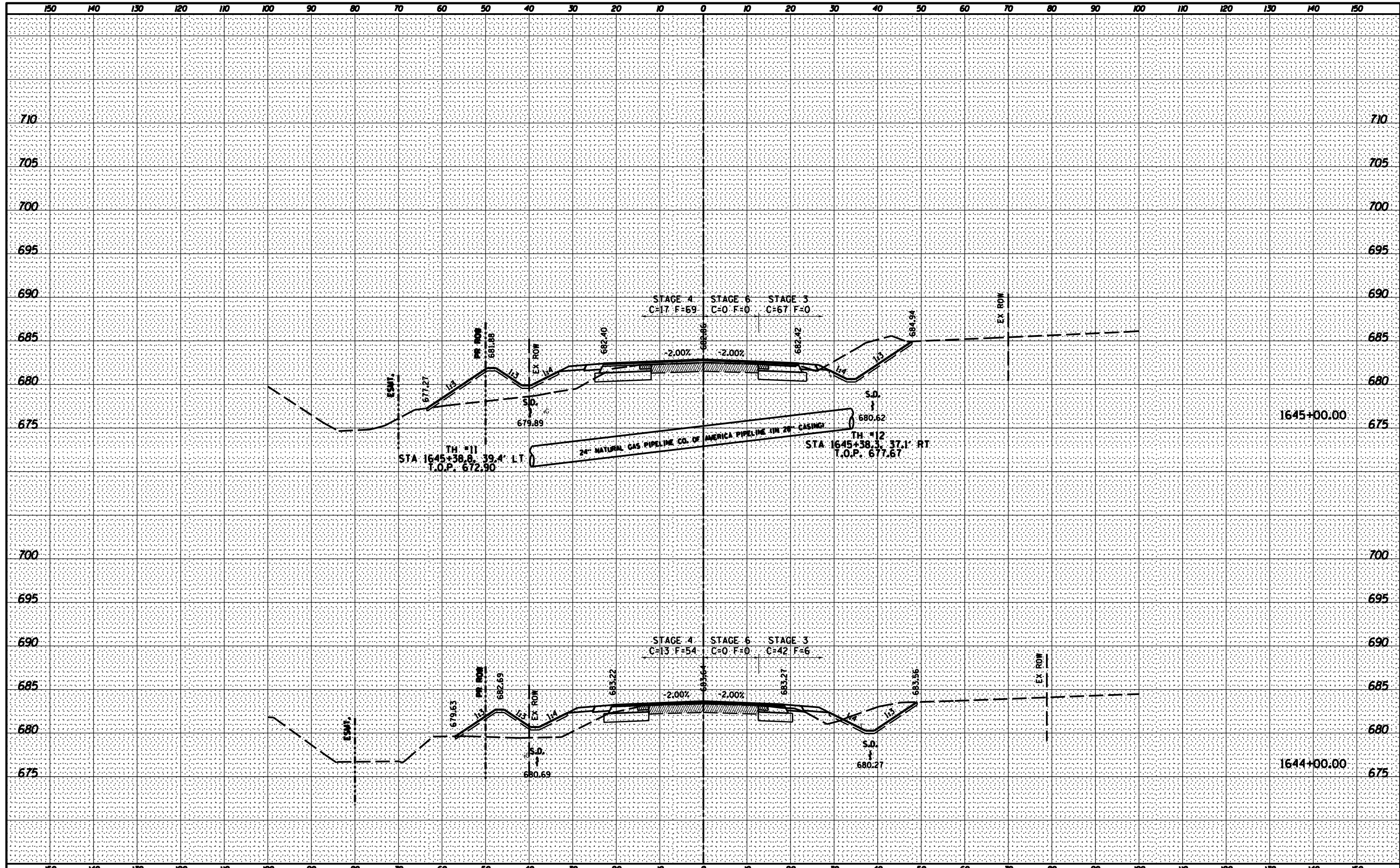


FILE NAME = D03306-SHT-XSHT.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL ROUTE 26 CROSS SECTIONS</b>		F.A.P. RTE. 316	SECTION (116) R,T	COUNTY BUREAU	TOTAL SHEETS 221	SHEET NO. 193	
	PLOT SCALE = 1"=1'	CHECKED - JOHNSON, B	REVISED -		SCALE:	SHEET NO. 8 OF 36 SHEETS	STA.	TO STA.	CONTRACT NO. 66901			
	PLOT DATE = 1/13/2015	DATE - 1/13/2015	REVISED -		ILLINOIS FED. AID PROJECT							



DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLOTTED
	TEMPLATE
	AREAS CHECKED

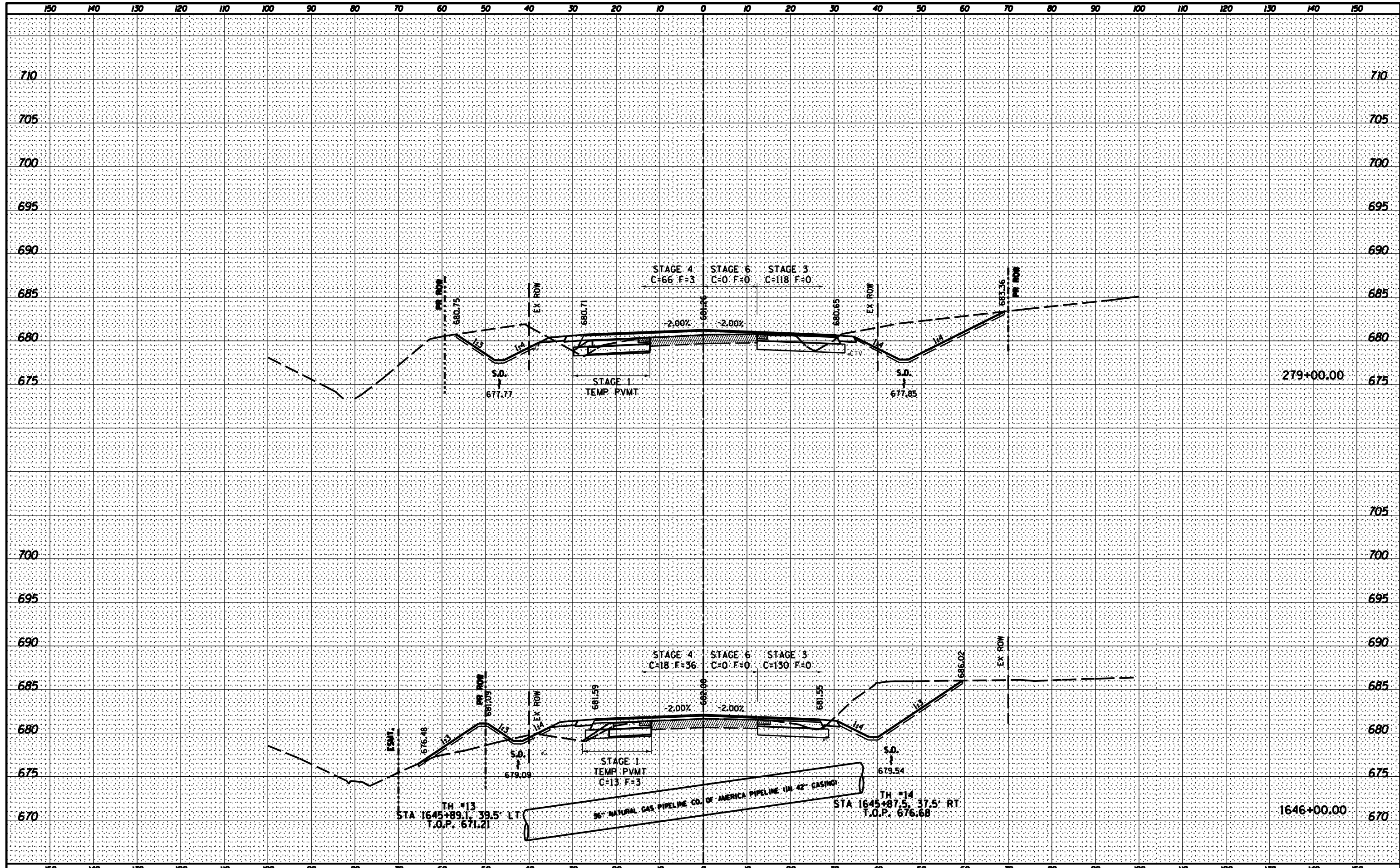
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BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLOTTED
	TEMPLATE
	AREAS CHECKED



FILE NAME = D03306-SHT-XSHT.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISÉ -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION IL ROUTE 26 CROSS SECTIONS SCALE: SHEET NO. 10 OF 36 SHEETS STA. TO STA.	F.A.P. RTE. 316	SECTION (116) R,T	COUNTY BUREAU	TOTAL SHEETS 212	SHEET NO. 195	
	PLOT SCALE = 1"=1'	CHECKED - JOHNSON, B	REVISÉ -		CONTRACT NO. 66901					
	PLOT DATE = *DATE*	DATE - *DATE*	REVISÉ -		ILLINOIS FED. AID PROJECT					

DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED

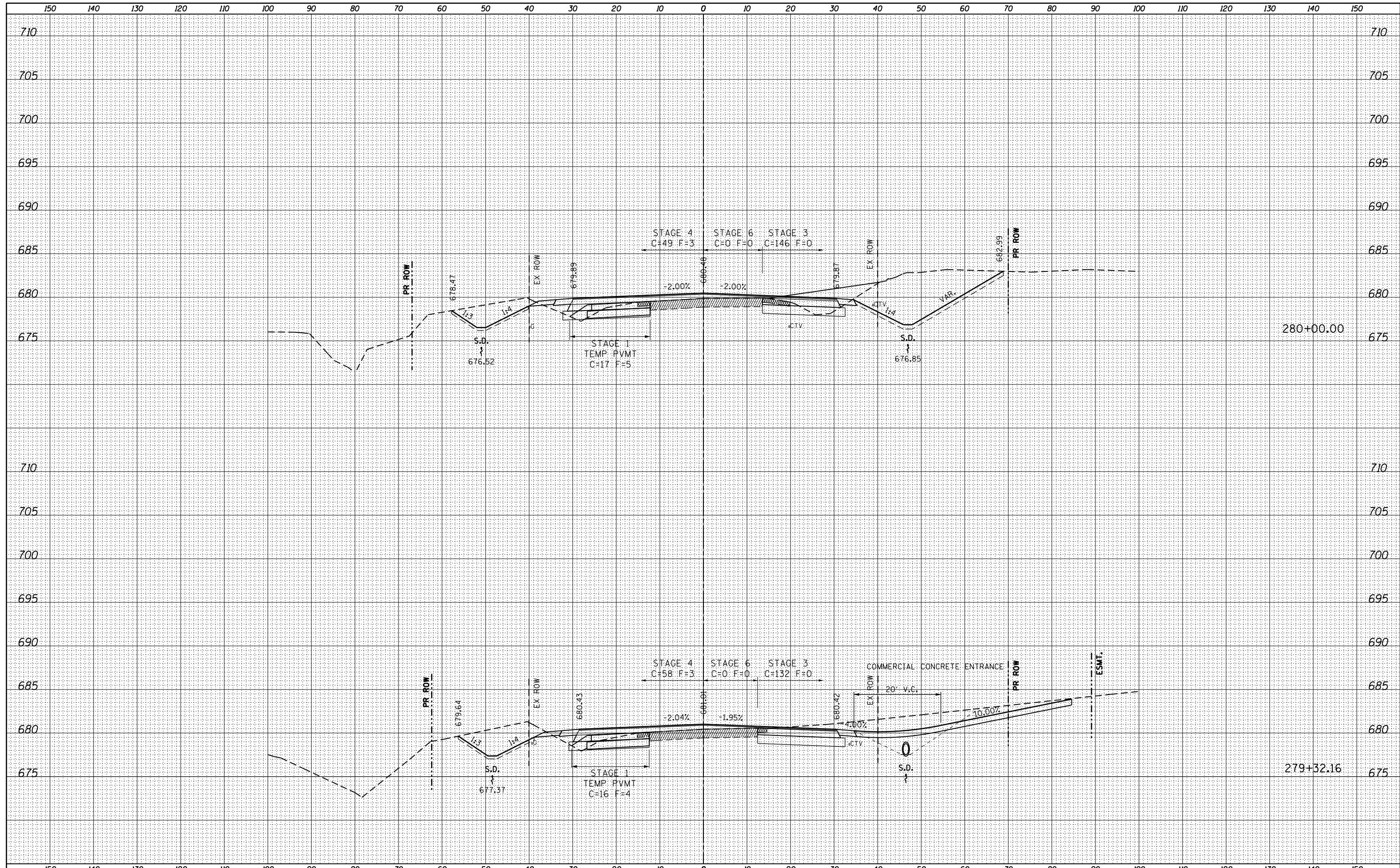
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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	AREAS CHECKED





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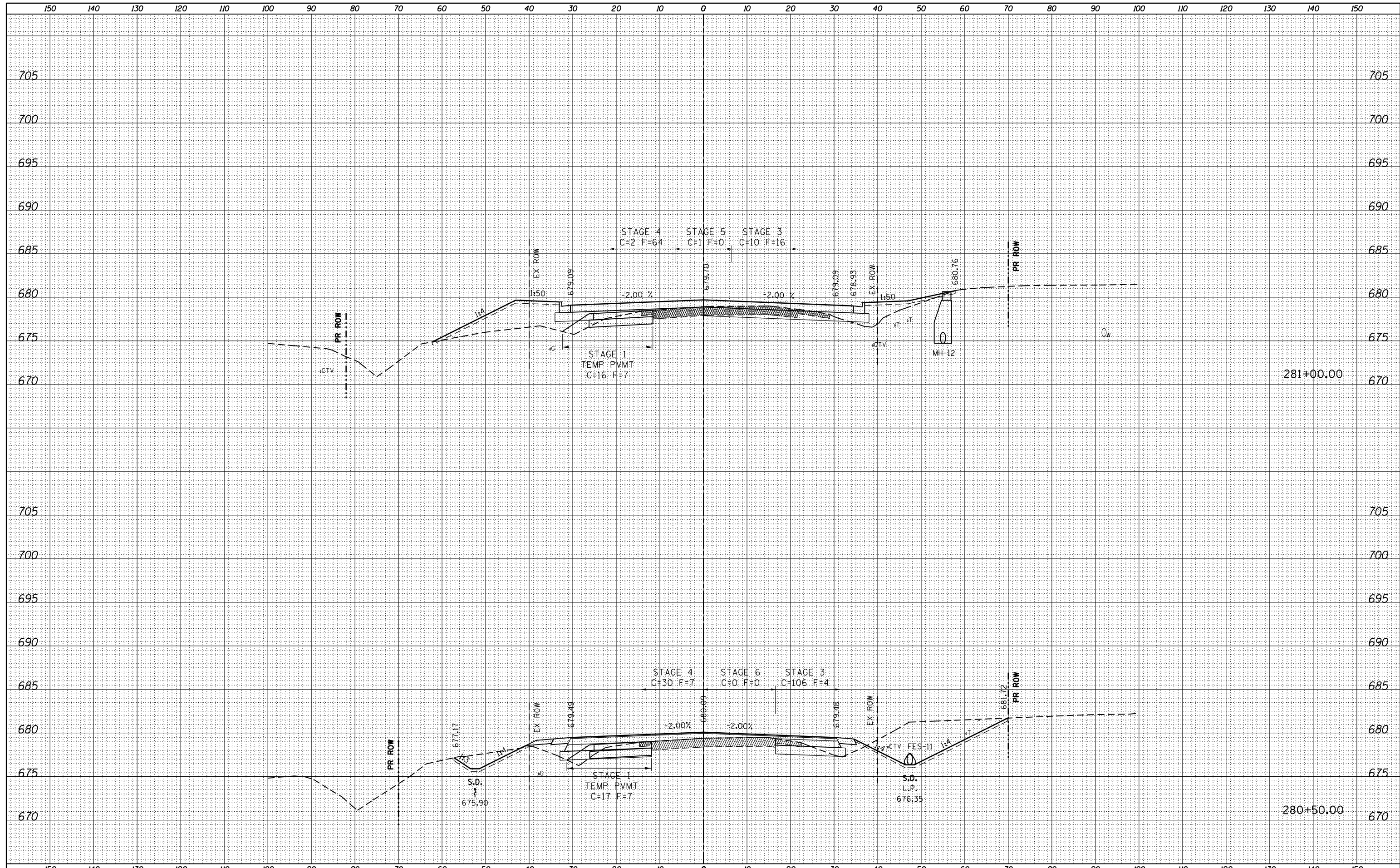
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FILE NAME = D03306-SHT-XSHT.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>IL ROUTE 26 CROSS SECTIONS</b>			F.A.P. RTE. 316	SECTION (116) R,T	COUNTY BUREAU	TOTAL SHEETS 221	SHEET NO. 197
		DRAWN - RAMIREZ, P	REVISED -		SCALE:	SHEET NO. 12 OF 36 SHEETS	STA.	TO STA.	CONTRACT NO. 66901			
		CHECKED - JOHNSON, B	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE - 1/13/2015	REVISED -									

DATE	
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
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FILE NAME = D03306-SHT-XSHT.DGN

USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -
	DRAWN - RAMIREZ, P	REVISED -
PLOT SCALE = 1"=1'	CHECKED - JOHNSON, B	REVISED -
PLOT DATE = 1/13/2015	DATE - 1/13/2015	REVISED -

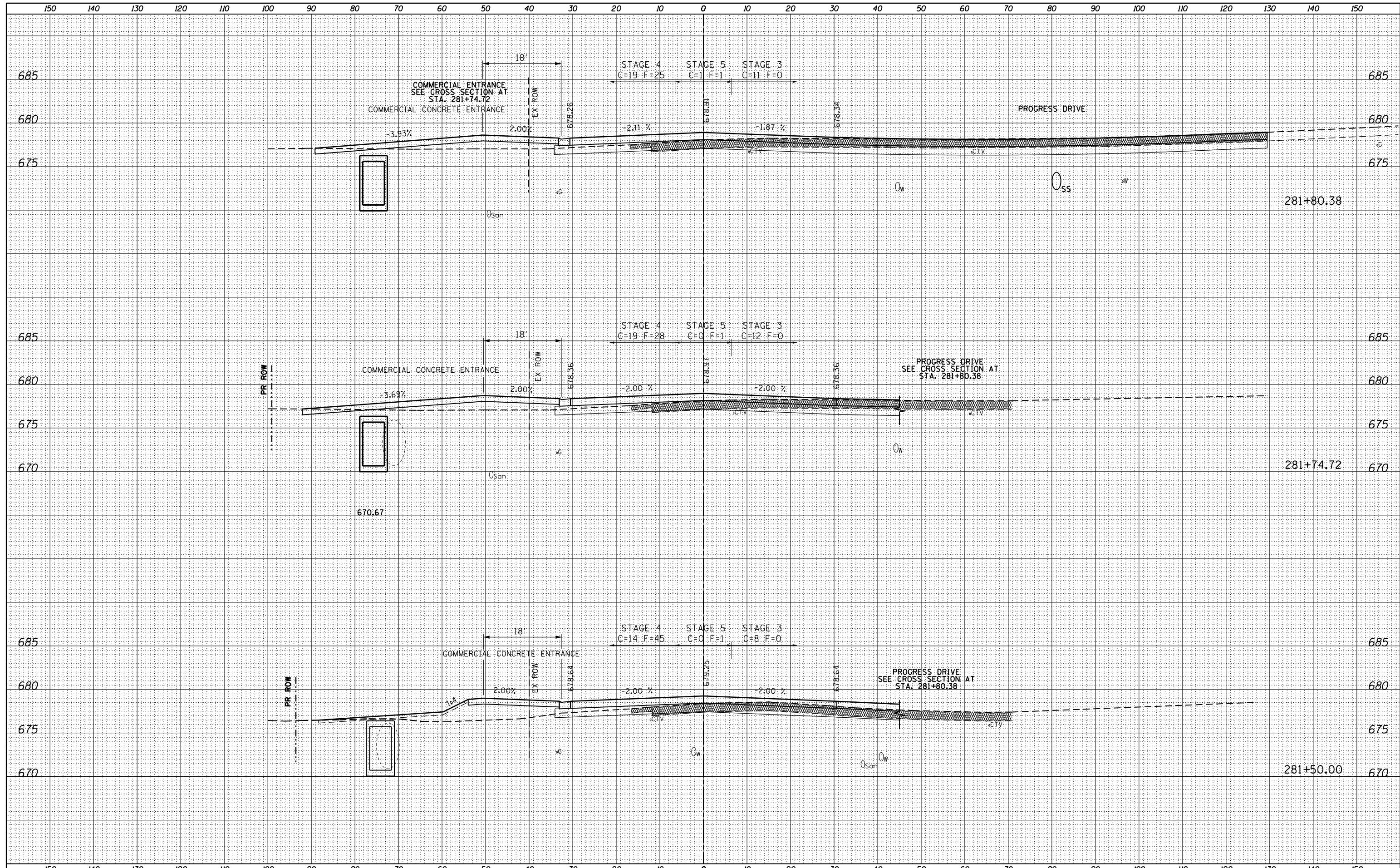
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 26 CROSS SECTIONS**  
SCALE: SHEET NO. 13 OF 36 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(116) R,T	BUREAU	221	198
CONTRACT NO. 66901				
ILLINOIS FED. AID PROJECT				

DATE	
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FINAL SURVEY	
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NOTE BOOK	
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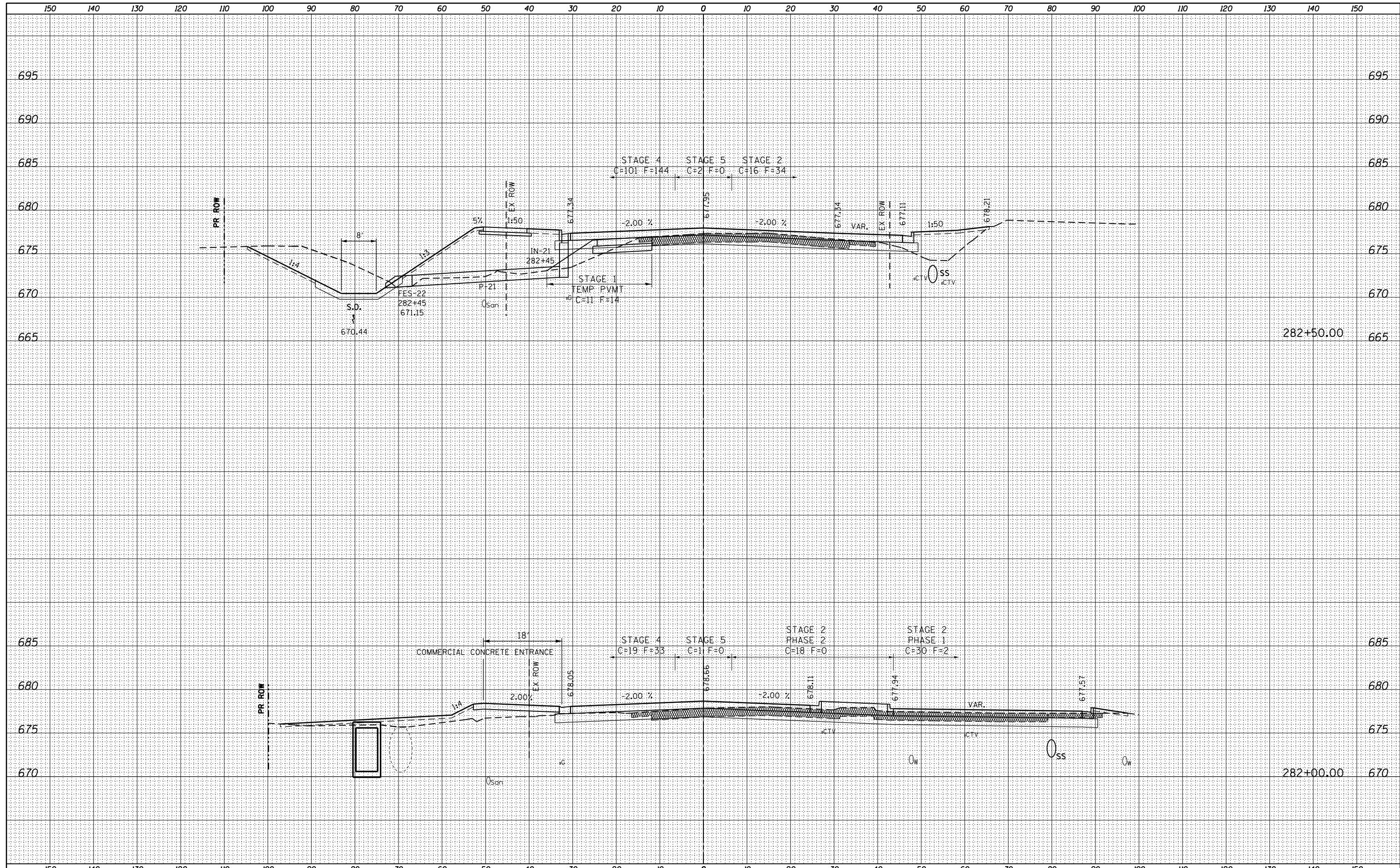
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ORIGINAL SURVEY	
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NOTE BOOK	
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FILE NAME = D03306-SHT-XSHT.DGN	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 26 CROSS SECTIONS		F.A.P. RTE. 316	SECTION (116) R,T	COUNTY	TOTAL SHEETS 221	SHEET NO. 199	
	PLOT SCALE = 1"=1'	CHECKED - JOHNSON, B	REVISED -		SCALE:	SHEET NO. 14 OF 36 SHEETS	STA.	TO STA.	CONTRACT NO. 66901			
	PLOT DATE = 1/13/2015	DATE - 1/13/2015	REVISED -		ILLINOIS FED. AID PROJECT							

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NOTE BOOK	
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NOTE BOOK	
AREAS	
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FILE NAME =	USER NAME = RAMIREZ, P	DESIGNED - JOHNSON, B	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>IL ROUTE 26 CROSS SECTIONS</b>		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D03306-SHT-XSHT.DGN		DRAWN - RAMIREZ, P	REVISED -		316	(116) R,T	BUREAU	221	200	CONTRACT NO. 66901	
		CHECKED - JOHNSON, B	REVISED -		SCALE:	SHEET NO. 15 OF 36 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		
		DATE - 1/13/2015	REVISED -								