

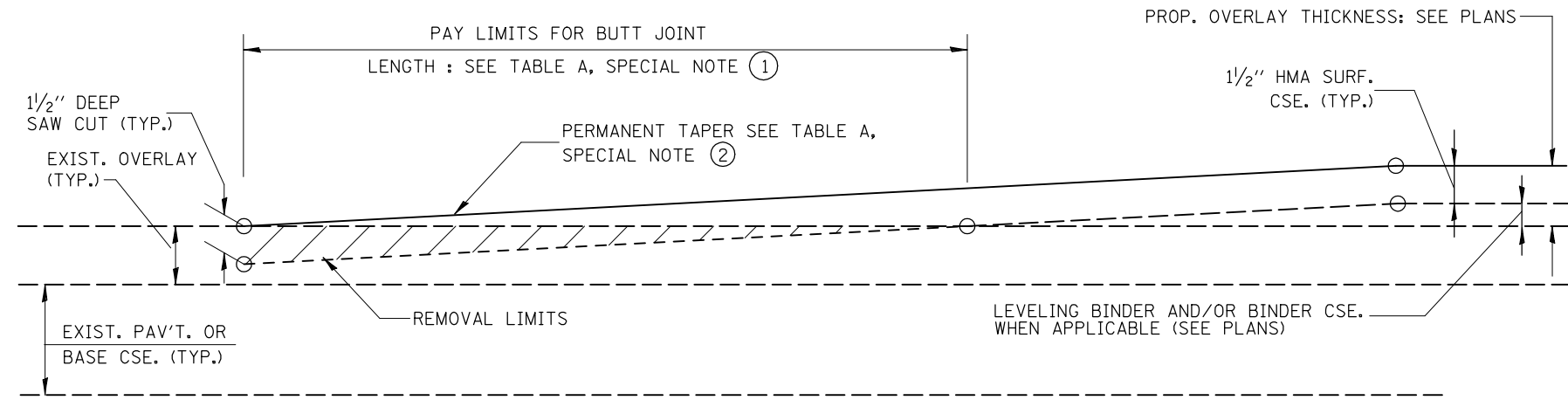
TABLE A

(LENGTHS AND TAPER RATES)

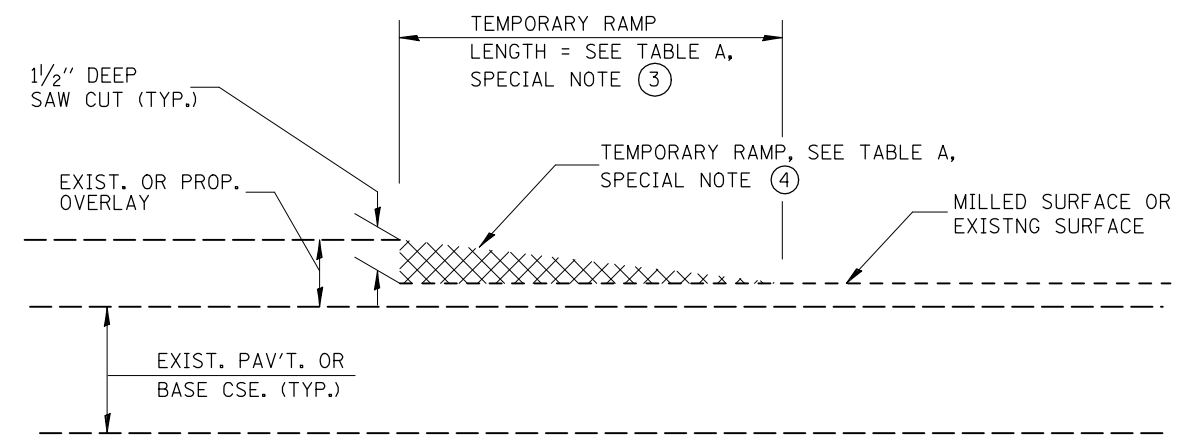
SPECIAL NOTE NUMBER	ELEMENT	LENGTH
①	LENGTH OF BUTT JOINT	30'
②	PERMANENT TAPER RATE	1:240
③	TEMPORARY RAMP TAPER RATE	1:40
④	TEMPORARY RAMP LENGTH	5'

GENERAL NOTES

1. THE WORK SHALL BE DONE IN ACCORDANCE WITH ARTICLE 406.18 AND THE SPECIAL PROVISION FOR BUTT JOINTS.
2. THE PAVEMENT SURFACE TO BE REMOVED MAY BE EITHER HMA OR P.C. CONCRETE. THE WORK SHALL BE PERFORMED IN ACCORDANCE WITH ARTICLE 440.03 AND THE SPECIAL PROVISIONS FOR BUTT JOINTS.
3. THE SAW CUT JOINTS SHALL BE PRIMED JUST PRIOR TO THE PLACING OF HMA MATERIAL. THE WORK WILL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF ARTICLE 406.06.



BUTT JOINT DETAIL



DETAIL TEMPORARY RAMP

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

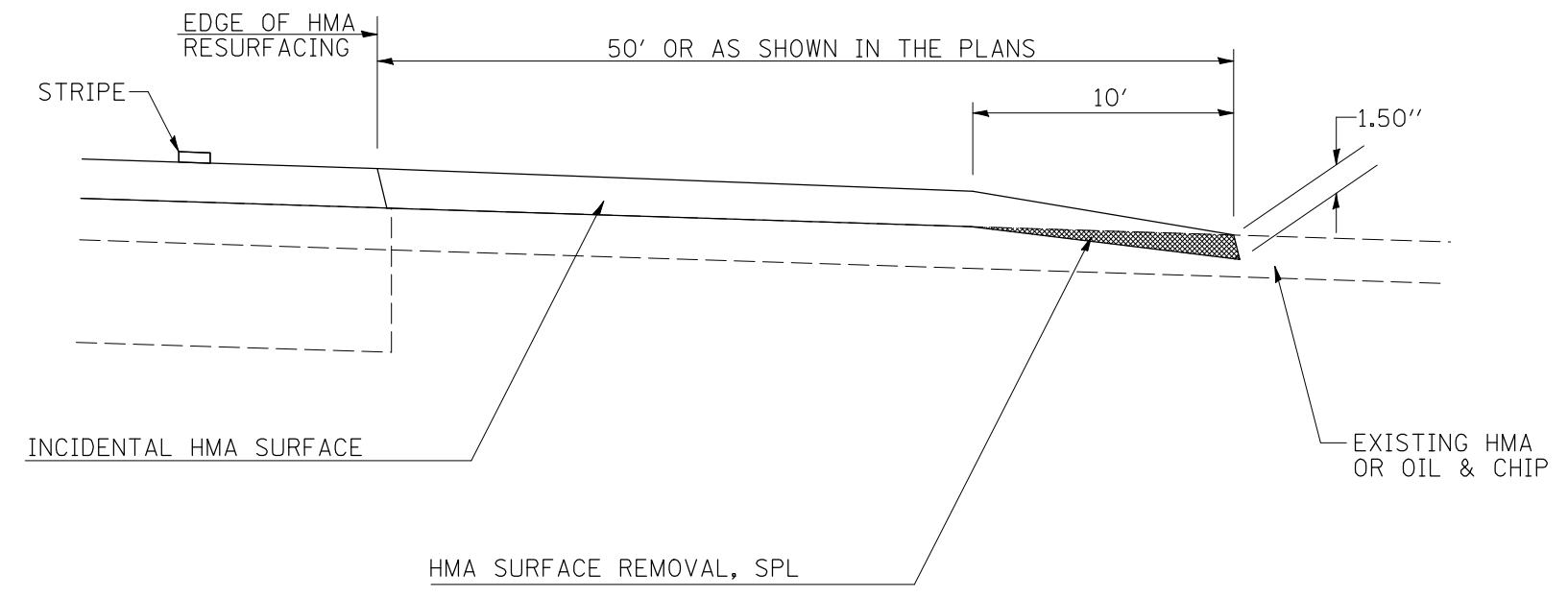
MISCELLANEOUS DETAILS

SCALE: VERT. DRAWN BY: JJO
 HORIZ. CHECKED BY: PJM
 DATE: 11/24/03

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
B16	•	DOUGLAS	176	102
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 90711				
• 6RS-1 & 6BR/BR				

SIDEROAD DETAIL

(HOT-MIX ASPHALT OR OIL & CHIP)

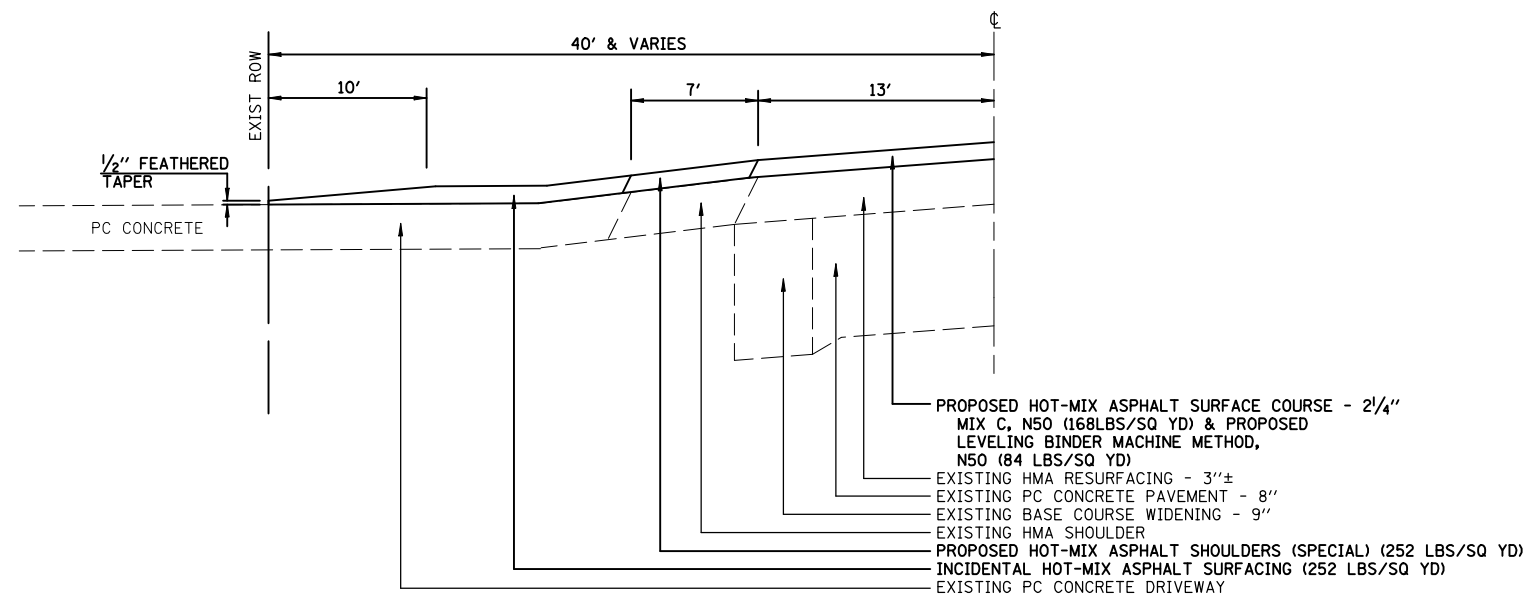


NOTE: THE INCIDENTAL HMA SURFACING IS INTENDED TO RESURFACE THE EXISTING SIDEROAD APRON IN THEIR ENTIRETY. THE EXISTING SIDEROADS ARE TO BE RESURFACED TO THE PROPOSED 30' RADII. HMA BASE COURSE WIDENING IS TO BE USED TO OBTAIN THE PROPOSED 30' RADII.

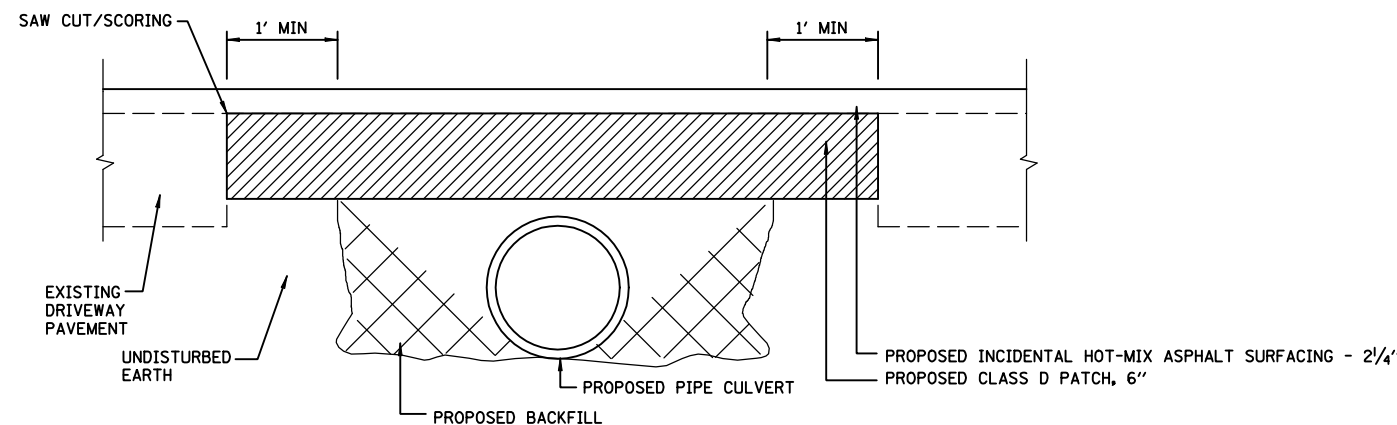
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		SIDEROAD DETAIL

SCALE: VERT. DRAWN BY: JJO
 HORIZ. CHECKED BY: PJM
 DATE: 11/24/03

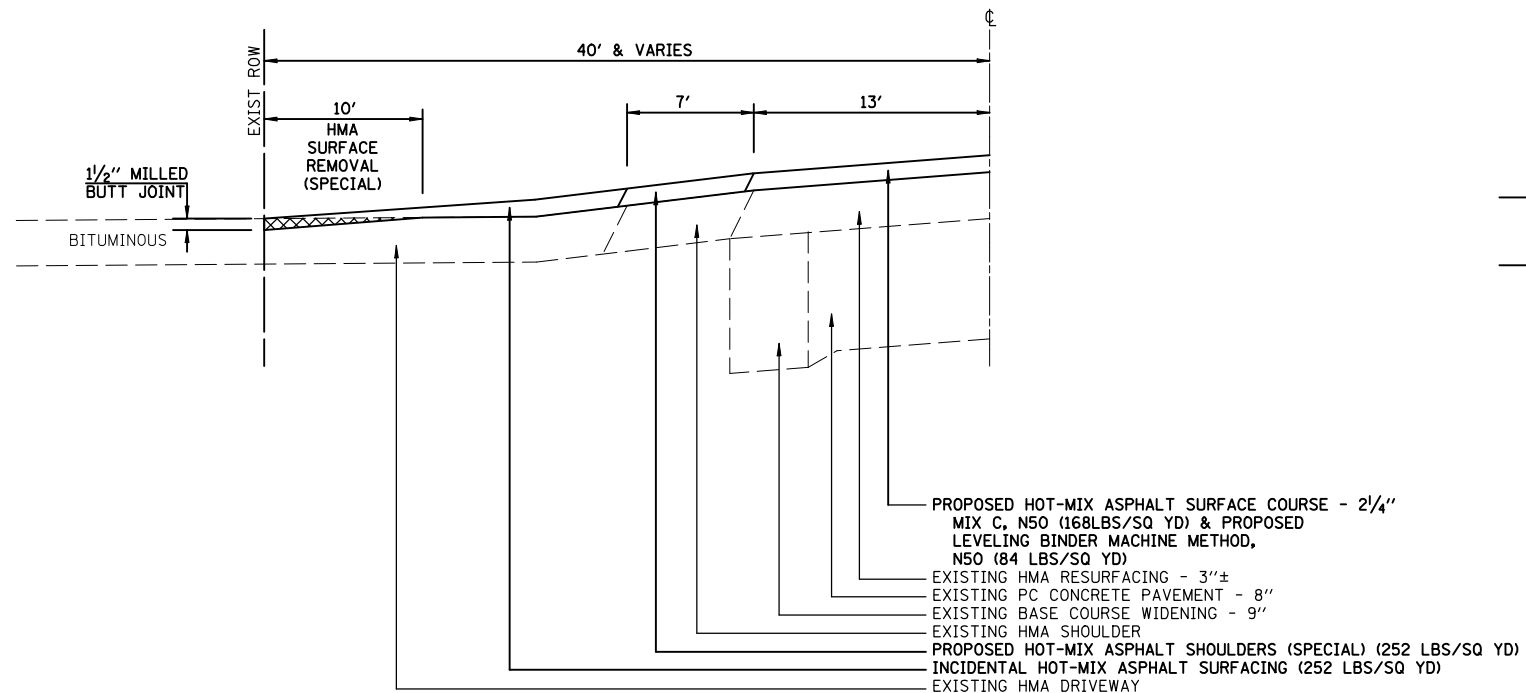
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	*	DOUGLAS	176	103
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 90711				
* 6RS-1 & 6BR1BR				



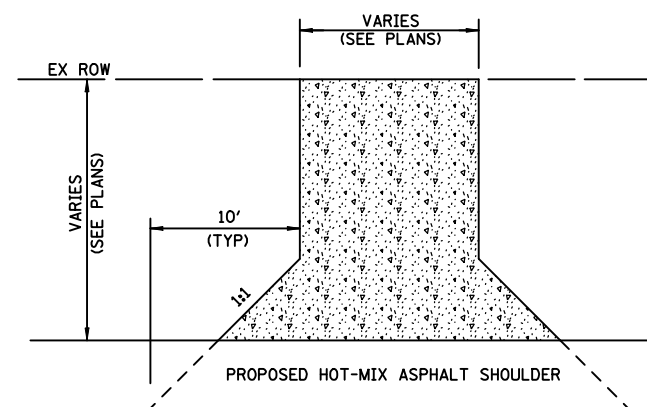
HOT-MIX ASPHALT RUNDOWN DETAIL
OVER EXISTING PC CONCRETE ENTRANCE



FULL DEPTH PATCH FOR ENTRANCE CULVERT REPLACEMENT
FOR EXISTING P.C. CONCRETE OR HOT-MIX ASPHALT ENTRANCES

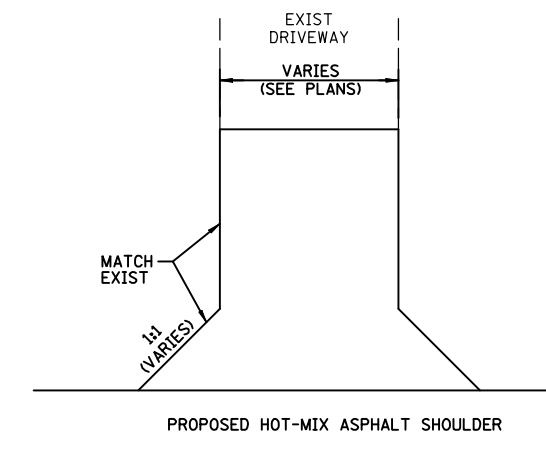


HOT-MIX ASPHALT RUNDOWN DETAIL
OVER EXISTING HOT-MIX ASPHALT ENTRANCE



PLAN VIEW
PC CONCRETE DRIVEWAY

NOTE: FOR USE WHEN EXISTING
CONCRETE DRIVEWAY IS TO BE
REMOVED AND REPLACED. SEE
SCHEDULE FOR THICKNESS.



PLAN VIEW
PROPOSED HOT-MIX ASPHALT
OVERLAY DRIVEWAY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

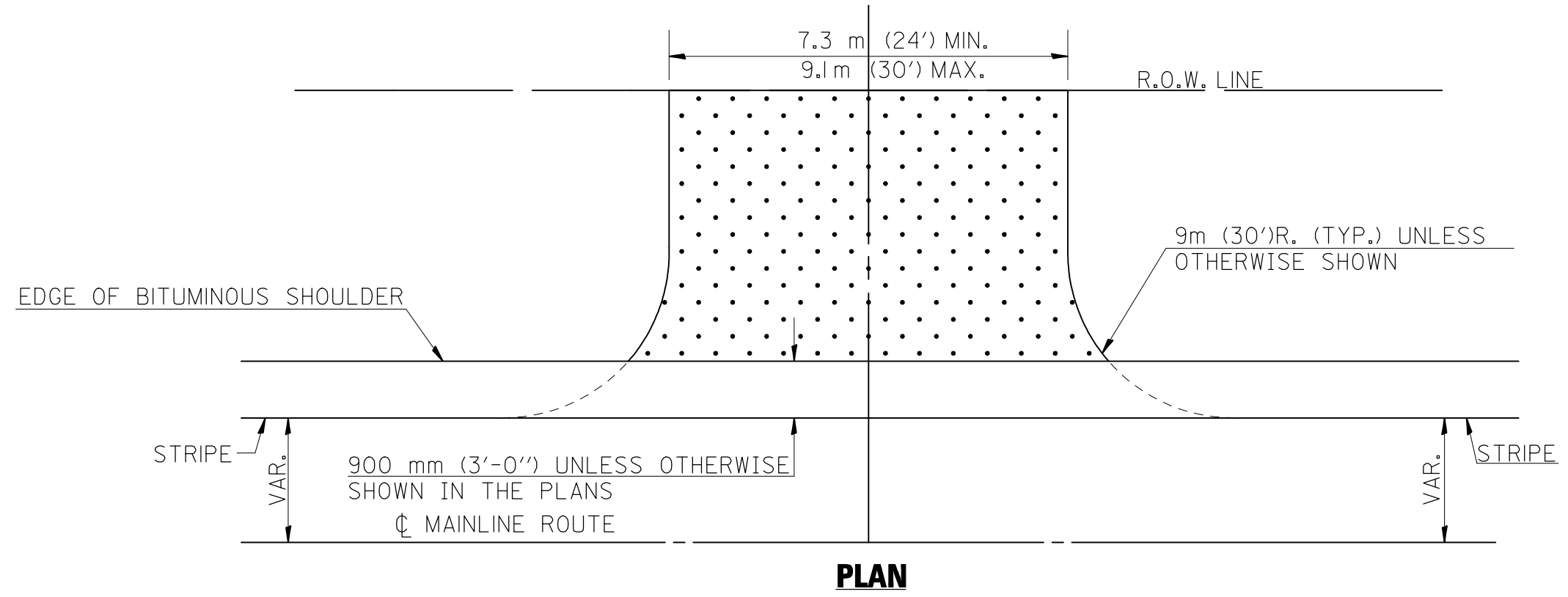
MISCELLANEOUS DETAILS
(ENTRANCE)

SCALE: VERT.
HORIZ.
DATE: 11/24/03

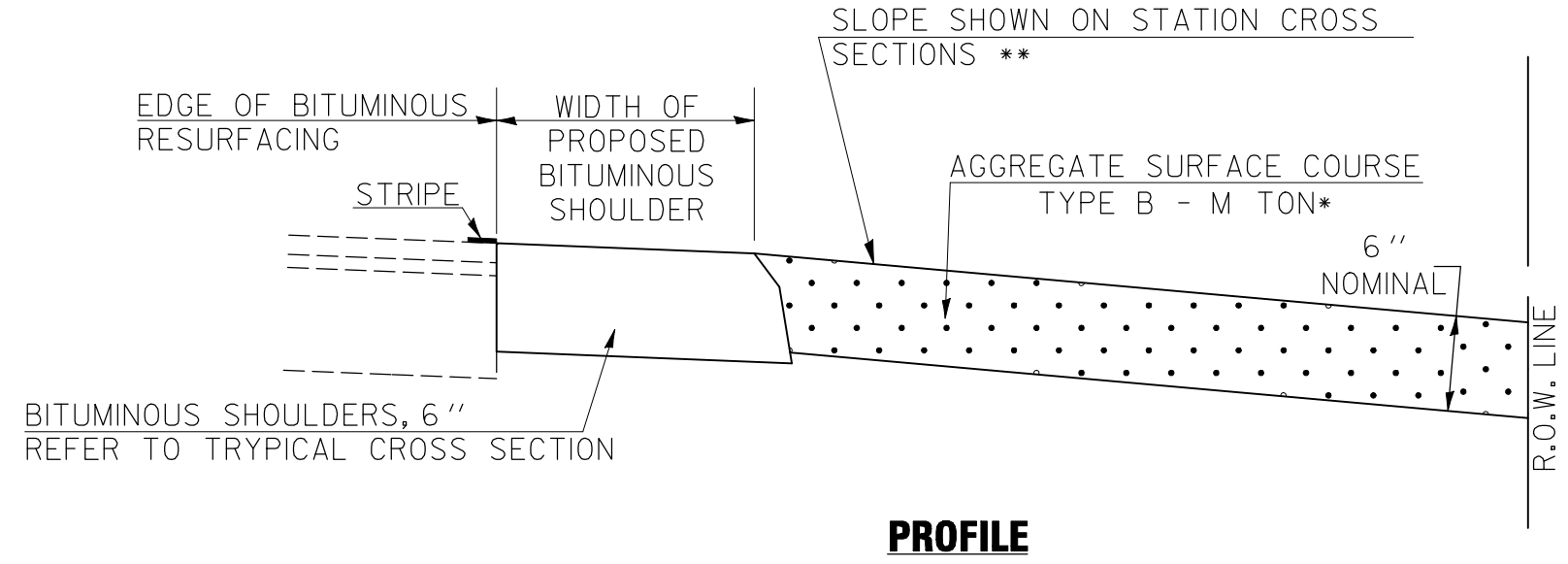
DRAWN BY: JJO
CHECKED BY: PJM

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
B16	6RS-1&6BR/BR	DOUGLAS	176	104
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 90711				

TYPICAL DETAIL OF RURAL FIELD ENTRANCES ADJACENT TO PROPOSED BITUMINOUS SHOULDERS (AGGREGATE OR EARTH)



PLAN



PROFILE

GENERAL NOTES

1. THE EXISTING SURFACE SHALL BE PREPARED IN ACCORDANCE WITH SECTION 408 OF THE STANDARD SPECIFICATIONS.
2. ANY NECESSARY WORK BEHIND THE BITUMINOUS SHOULDER SHALL BE AS SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.
3. ENTRANCE SIDESLOPES SHALL BE CONSTRUCTED TO 1:4 SLOPES, UNLESS OTHERWISE SHOWN.

** MIN. SLOPE = 1%
MAX. SLOPE = 12%

* EARTH EXCAVATION REQUIRED FOR THE CONSTRUCTION OF THE AGGREGATE SURFACE COURSE SHALL BE INCLUDED IN THE COST OF AGGREGATE SURFACE COURSE.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICAL DETAIL OF
RURAL FIELD ENTRANCES

SCALE: VERT. DRAWN BY: JJO
 HORIZ. CHECKED BY: PJM
DATE: 11/24/03

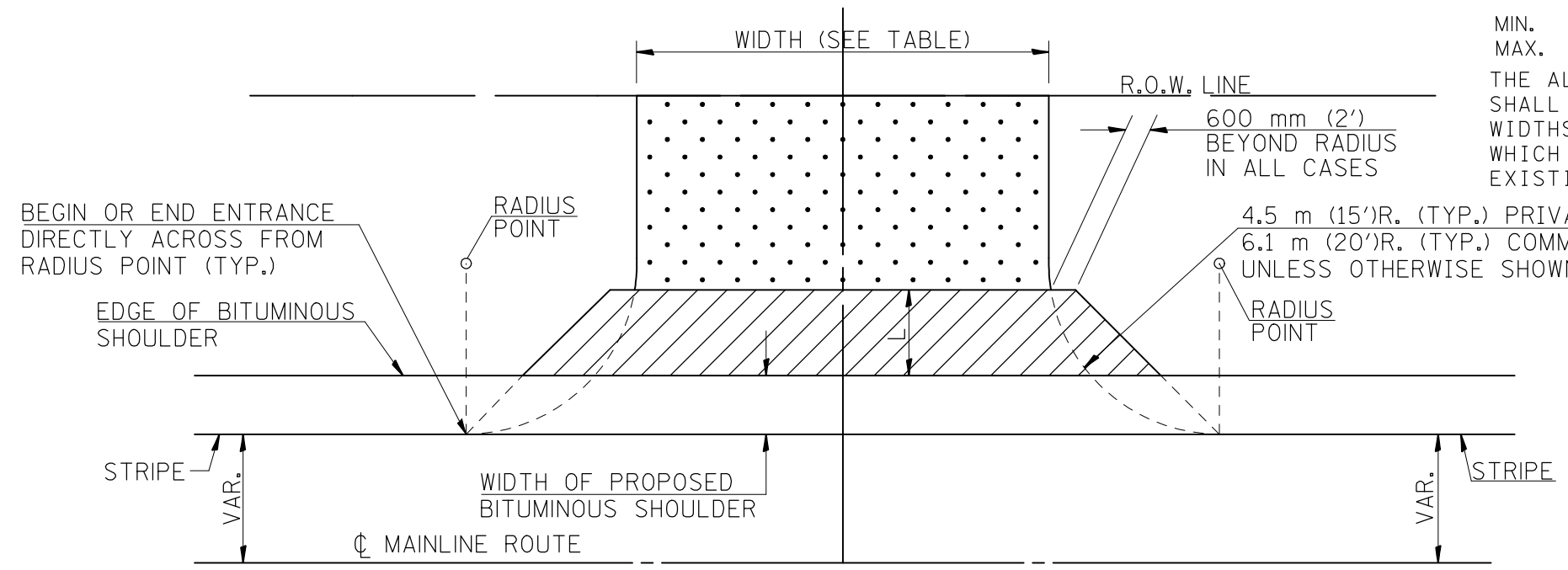
TYPICAL DETAIL OF RURAL PRIVATE AND COMMERCIAL ENTRANCES ADJACENT TO PROPOSED BITUMINOUS SHOULDERS (AGGREGATE OR EARTH)

ALLOWABLE ENTRANCE WIDTHS:

	PRIVATE	COMMERCIAL
MIN.	3.6 m (12')	7.3 m (24')
MAX.	7.3 m (24')	10.7 m (35')

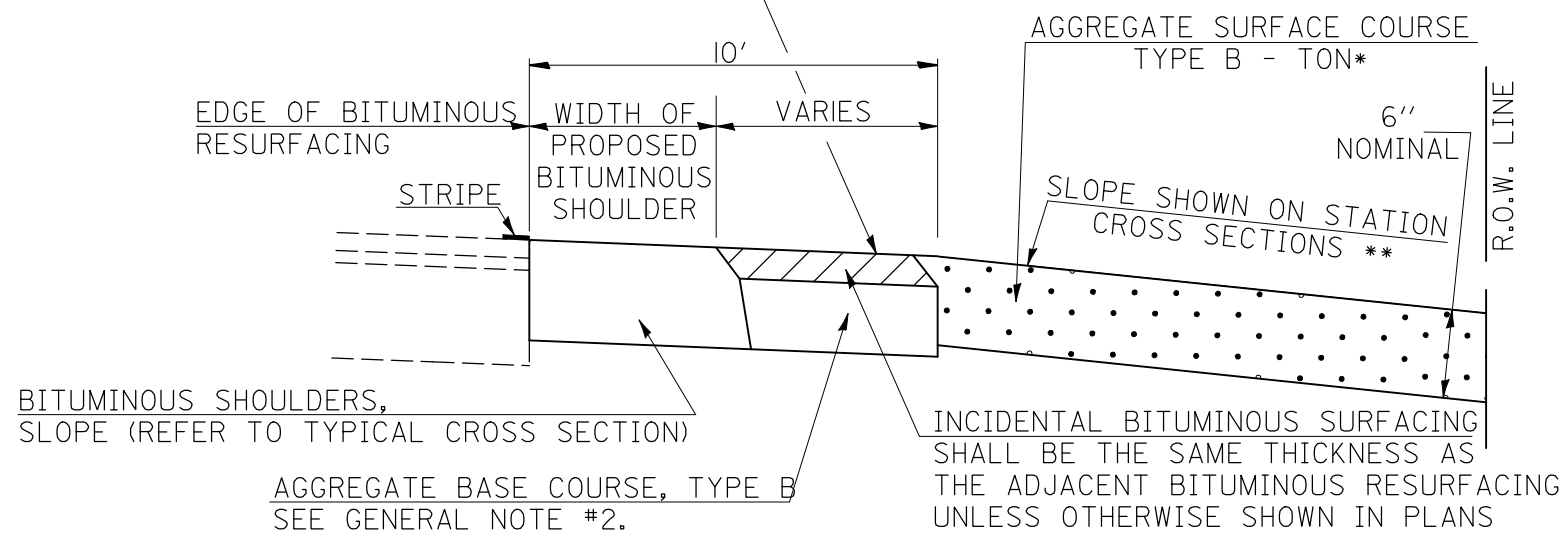
THE ALLOWABLE ENTRANCE WIDTHS SHALL BE INTERPRETED TO BE THE WIDTHS AT THE COMPLETED RADIUS, WHICH MAY BE LOCATED BEHIND THE EXISTING R.O.W. LINE.

** MIN. SLOPE = 1%
MAX. SLOPE = 12%



PLAN

GENERAL NOTES



PROFILE

1. THE EXISTING SURFACE SHALL BE PREPARED IN ACCORDANCE WITH SECTION 408 OF THE STANDARD SPECIFICATIONS.
2. AGGREGATE BASE COURSE, TYPE B OF THE THICKNESS SPECIFIED IN THE PLANS 150 mm (6") MIN. SHALL BE USED WHERE IN THE OPINION OF THE ENGINEER THERE IS NOT SUFFICIENT BASE MATERIAL FOR THE PROPOSED ENTRANCES. THIS MATERIAL SHALL GENERALLY BE USED TO WIDEN ANY EXISTING RETURN OR TO CONSTRUCT NEW ENTRANCES WHERE NONE NOW EXISTS.
3. THE AGGREGATE BASE COURSE SHALL BE CONSTRUCTED 0.3 m (1') WIDER THAN THE SURFACE DIMENSIONS AS SHOWN ABOVE.
4. ANY NECESSARY WORK BEHIND THE INCIDENTAL BITUMINOUS SURFACING SHALL BE AS SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.
5. ENTRANCE SIDESLOPES SHALL BE CONSTRUCTED TO 1:4 SLOPES UNLESS OTHERWISE SHOWN.

* EARTH EXCAVATION REQUIRED FOR THE CONSTRUCTION OF THE AGGREGATE SURFACE COURSE SHALL BE INCLUDED IN THE COST OF AGGREGATE SURFACE COURSE.

REVISIONS	
NAME	DATE

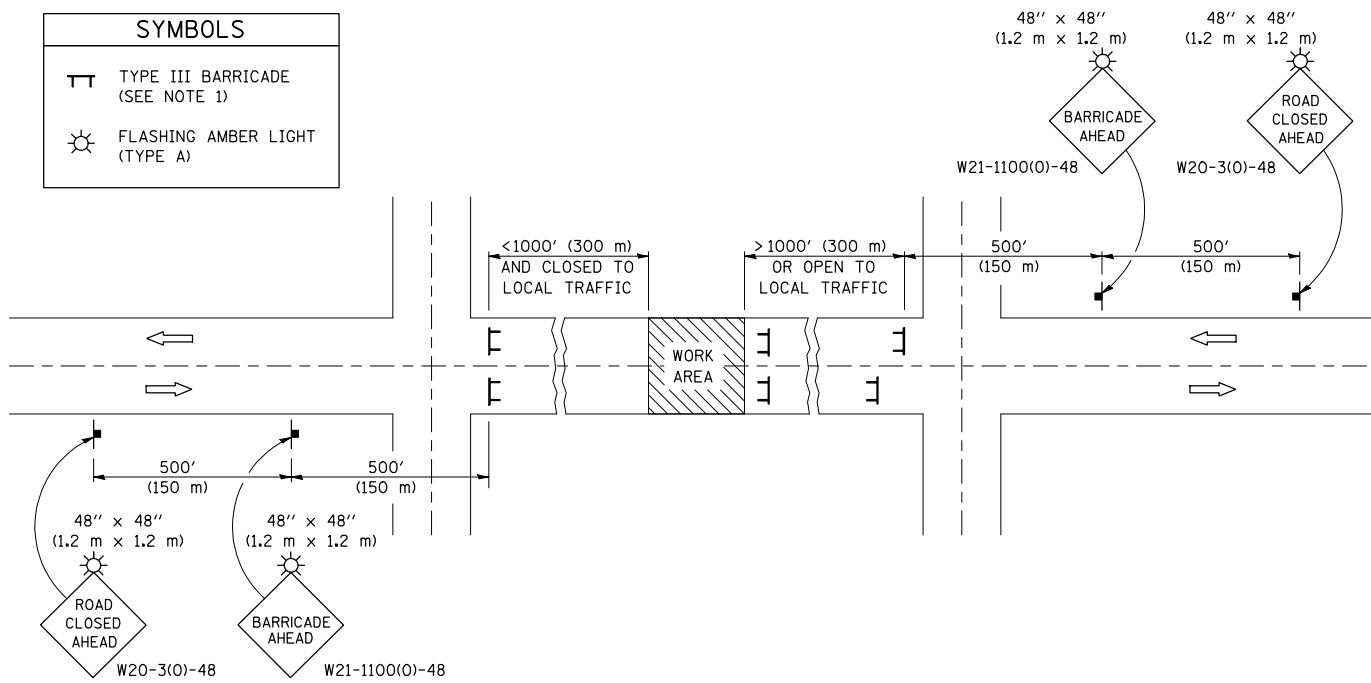
ILLINOIS DEPARTMENT OF TRANSPORTATION
TYPICAL DETAIL OF RURAL PRIVATE AND COMMERCIAL ENTRANCES
SCALE: VERT. 1"=4'
HORIZ. 1"=40'
DATE: 11/24/03
DRAWN BY: JJO
CHECKED BY: PJM

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	GRS-1	DOUGLAS	176	106
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 90711				

ROAD CLOSURE

SIDEROAD / STREET CLOSURE

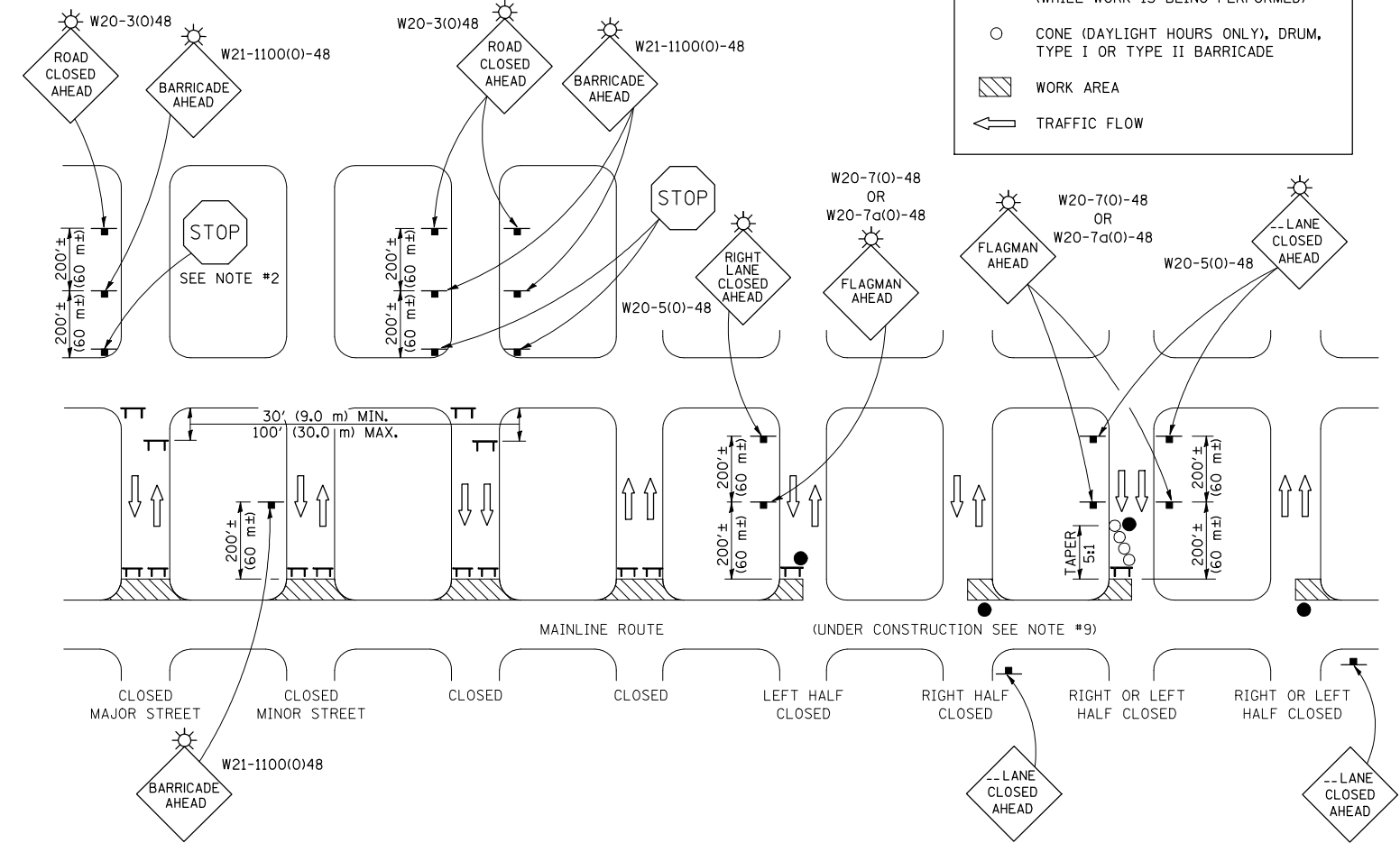
SYMBOLS	
	TYPE III BARRICADE (SEE NOTE 1)
	FLASHING AMBER LIGHT (TYPE A)



GENERAL NOTES

- TYPE III BARRICADES SHALL BE AS SHOWN ON STANDARD 701901 "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
- IF THE ROAD IS OPEN TO LOCAL TRAFFIC OR EXCEEDS 1000' (300 m), ANOTHER SET OF TYPE III BARRICADES, EQUIPPED AS IN NOTE 1 ABOVE, SHALL BE PLACED AT EACH END OF THE WORK AREA.
- WHEN A STOP CONDITION EXISTS, NO SIGNS ARE REQUIRED IN ADVANCE OF THE "STOP" SIGN WHEN THE ROAD IS CLOSED WITHIN 100' (30 m) OF THE INTERSECTION.
- STANDARD 701901 SHALL APPLY FOR THE PLACEMENT & DESIGN OF TYPE III BARRICADES.
- IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON AN NCHRP 350 TEMPORARY SIGN SUPPORT DIRECTLY IN FRONT OF THE BARRICADE.
- REFLECTORIZED STRIPING SHALL APPEAR ON BOTH SIDES OF THE TYPE III BARRICADES IF ROAD IS OPEN TO LOCAL TRAFFIC.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- A MINIMUM OF TWO FLASHING LIGHTS SHALL BE USED AT NIGHT ON EACH APPROACH IN ADVANCE OF THE WORK AREA. FLASHING LIGHTS SHALL BE INSTALLED ABOVE THE FIRST TWO SIGNS IN THE SERIES.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- FORMS BT. 725 AND BT. 726 ARE REQUIRED.
- WHEN A SIDEROAD INTERSECTS THE HIGHWAY ON WHICH WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC DEVICES SHALL BE ERECTED AND PROVIDED AS DIRECTED BY THE ENGINEER.
- AN ADDITIONAL SIGN MAY BE REQUIRED AT A MAJOR INTERSECTING ROAD IN ADVANCE OF THE CLOSURE. THE ADDITIONAL SIGN SHALL GIVE THE DISTANCE TO THE BARRICADE IN MILES OR FRACTIONS OF A MILE.

SYMBOLS	
	TYPE III BARRICADE (SEE NOTE)
	FLASHING LIGHT
	FLAGGER WITH TRAFFIC CONTROL SIGN (WHILE WORK IS BEING PERFORMED)
	CONE (DAYLIGHT HOURS ONLY), DRUM, TYPE I OR TYPE II BARRICADE
	WORK AREA
	TRAFFIC FLOW



GENERAL NOTES

- TYPE III BARRICADES SHALL BE AS SHOWN ON "TYPICAL APPLICATIONS OF TYPE III BARRICADES CLOSING A ROAD". EACH TYPE III BARRICADE SHALL HAVE TWO FLASHING AMBER LIGHTS MOUNTED ABOVE IT.
- WHERE A STOP CONDITION EXISTS, AS SHOWN ABOVE, WARNING SIGNS MAY BE OMITTED IN ADVANCE OF THE "STOP" SIGN.
- STANDARD 702001 SHALL APPLY FOR THE PLACEMENT & MANUFACTURE OF TYPE III BARRICADES.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ONE FLASHING LIGHT IS REQUIRED ABOVE EACH ADVANCE WARNING SIGN DURING HOURS OF DARKNESS.
- LONGITUDINAL DIMENSIONS MAY BE ADJUSTED SLIGHTLY TO FIT FIELD CONDITIONS.
- FORMS BT 725 AND BT 726 ARE REQUIRED.
- THE MAINLINE ROUTE TEMPORARY TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS AND STANDARD SPECIFICATIONS.
- THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE VARIOUS PAY ITEMS INVOLVING THE RECONSTRUCTION OF ALL APPLICABLE SIDE STREETS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

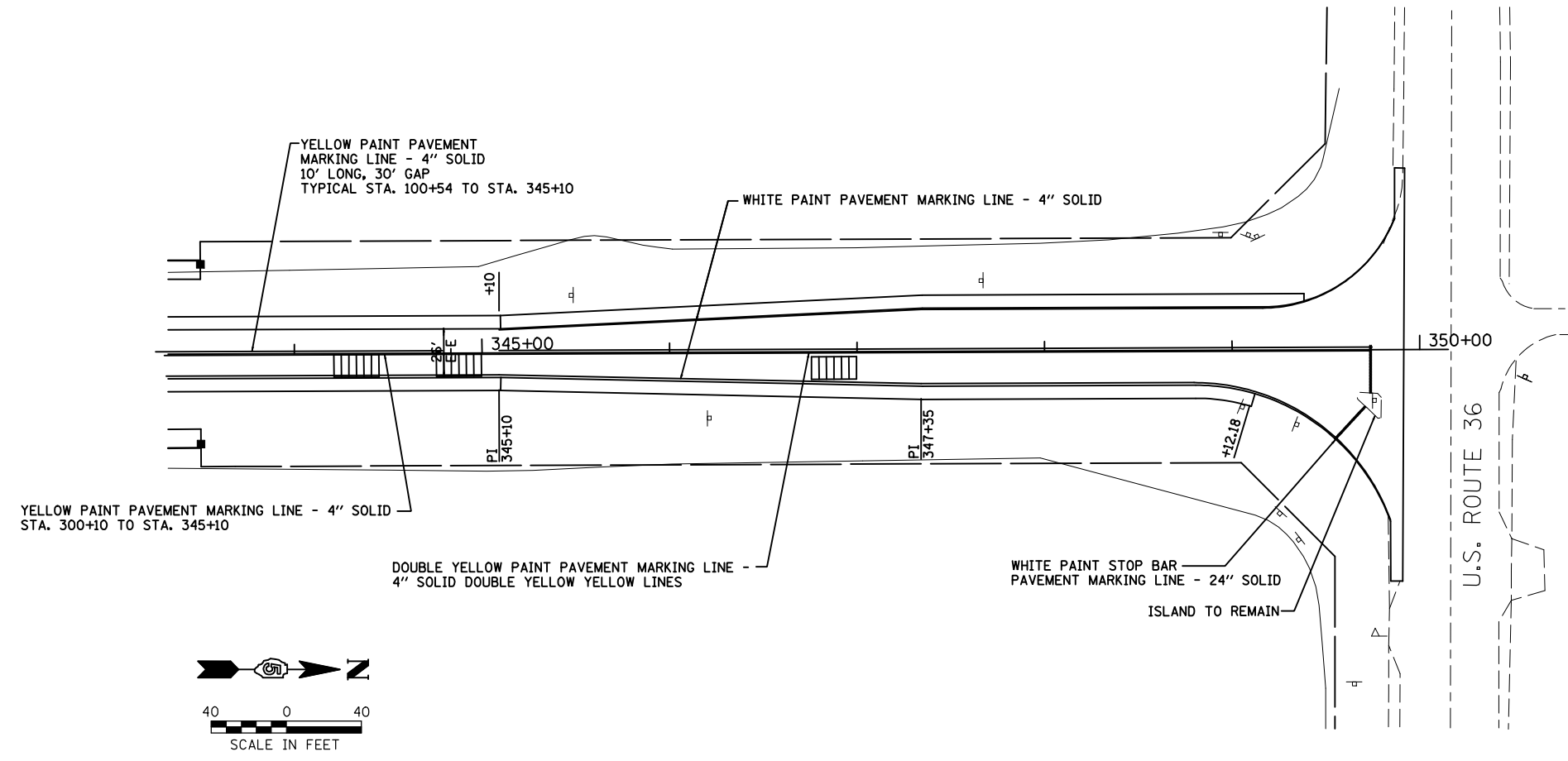
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DATE	REVISIONS	NAME
08/07	TITLE CHANGE	KAG
11/06	REPLACED DETAILS F-5.03 & F-5.04	TJB
12/07	REFERENCE CHANGE	KAG

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL & PROTECTION DEVICES
 (ROAD & SIDEROAD/STREET CLOSURES)
DISTRICT 5 DETAIL NO. 7020000

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	*	DOUGLAS	176	107
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 90711				
* 6RS-1 & 6BR/BR				

PAVEMENT STRIPING DETAIL

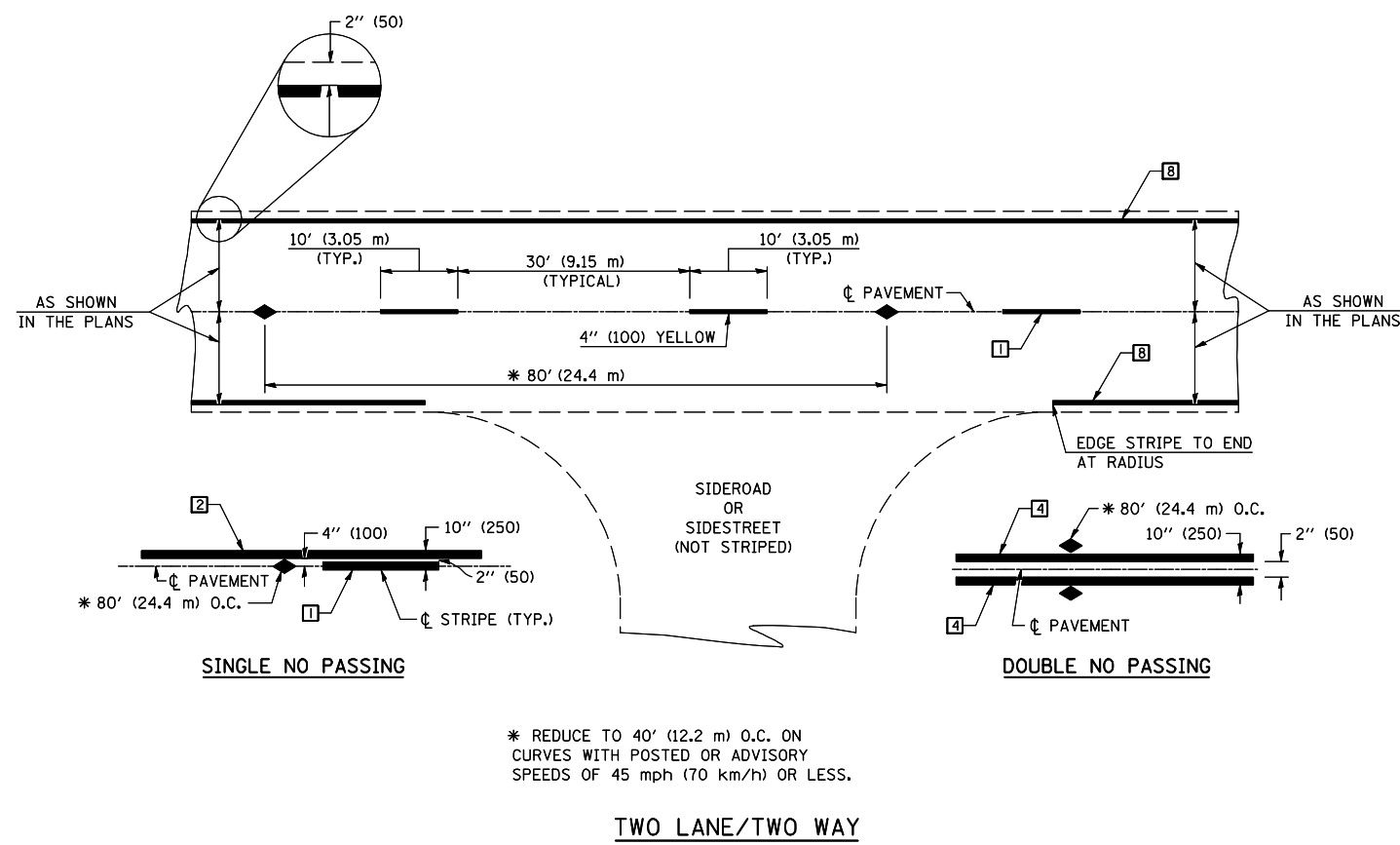


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT STRIPING DETAIL

SCALE: VERT. DRAWN BY: JJO
HORIZ. CHECKED BY: PJM
DATE: 11/24/03



TWO LANE/TWO WAY

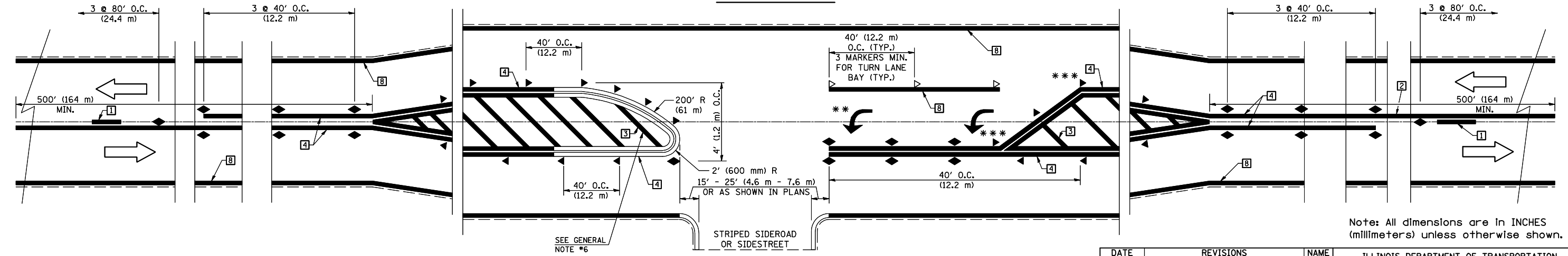
TYPICAL PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
 - 2 4" (100) SOLID (YELLOW)
 - 3 12" (300) DIAGONAL (YELLOW)
 - 4 4" (100) DOUBLE YELLOW (NARROW)
 - 5 RESERVED
 - 6 RESERVED
 - 7 4" (100) SKIP-DASH (WHITE)
 - 8 4" (100) SOLID (WHITE)
 - 9 12" (300) DIAGONAL (WHITE)
 - 10 6" (150) SOLID (WHITE)
 - 11 24" (600) STOP BAR (WHITE)
 - 12 8" (200) SOLID (WHITE)
 - 13 4" (100) LANE LINE EXTENSIONS (WHITE)
 - 14 4" (100) PARKING WHITE
-

TYPICAL PAVEMENT MARKERS LEGEND

- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER

RURAL LEFT TURN



Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

*** REDUCE SPACING IF NECESSARY TO ASSURE MARKERS AT CORNER POINTS.

** TURN ARROWS SHALL BE PLACED AS SHOWN ON SHEET #2.

DATE	REVISIONS	NAME
11/06	REPLACED DETAIL F-5.25	TJB

ILLINOIS DEPARTMENT OF TRANSPORTATION

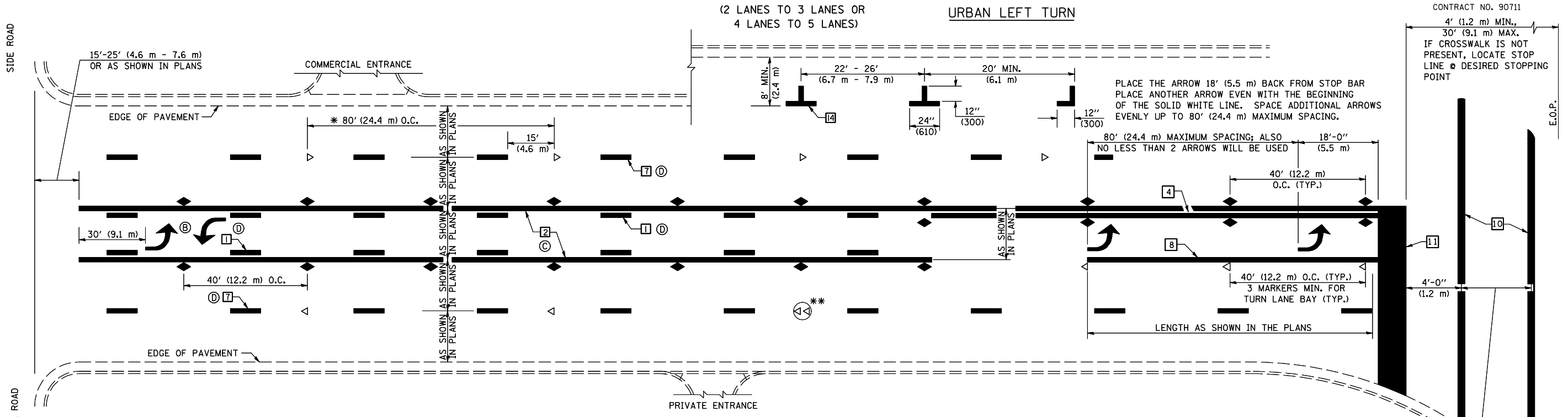
PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)

DISTRICT 5 DETAIL NO. 7800AAA

PLOT DATE = 7/25/2008
 FILE NAME = c:\prowork\45828695\2007_08_13\submit\1102846.mxd\detail14(1)-930.dgn
 PLOT SCALE = 1/8" = 1' IN.
 USER NAME = kejarb

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	GRS-1	DOUGLAS	176	109
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 90711



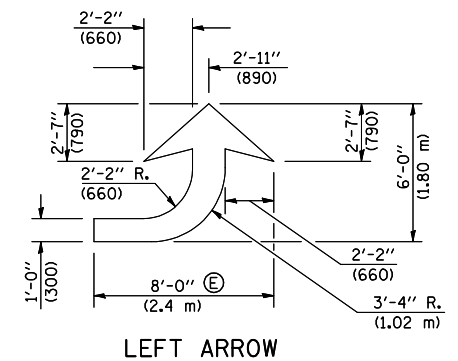
PLACE THE ARROW 18' (5.5 m) BACK FROM STOP BAR
PLACE ANOTHER ARROW EVEN WITH THE BEGINNING
OF THE SOLID WHITE LINE. SPACE ADDITIONAL ARROWS
EVENLY UP TO 80' (24.4 m) MAXIMUM SPACING.

4' (1.2 m) MIN.,
30' (9.1 m) MAX.
IF CROSSWALK IS NOT
PRESENT, LOCATE STOP
LINE @ DESIRED STOPPING
POINT

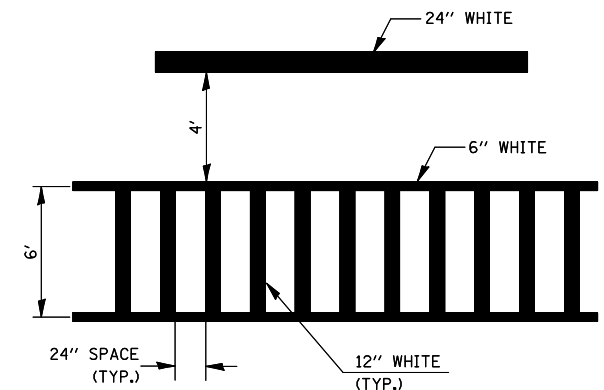
* REDUCE TO 40 FEET (12.2 METERS) ON CENTER
ON CURVES WHERE ADVISORY SPEEDS ARE
10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

** DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED
AND SPACED AS SHOWN IN HIGHWAY STANDARD
781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED
HIGHWAYS.

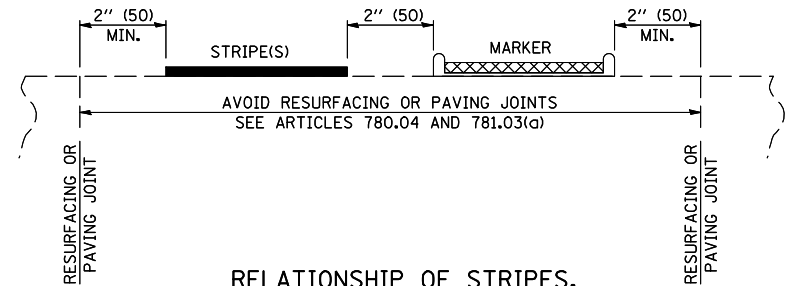
BLOOMINGTON-NORMAL CITY LIMITS ONLY



LEFT ARROW
REVERSE FOR RIGHT ARROW
AREA = 15.6 SQ. FT. (1.47 m²)
(WHITE)

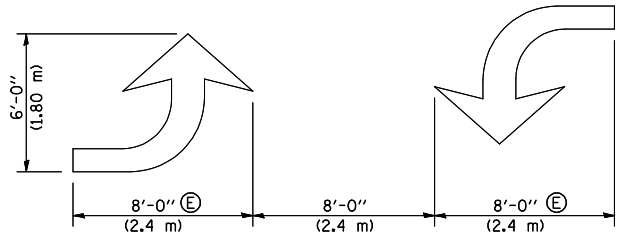


**TYPICAL SPACING FOR
CROSSWALKS & STOP BARS**

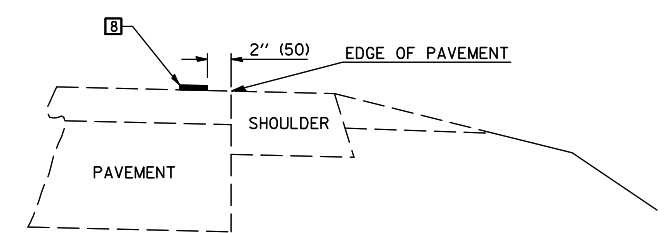


**RELATIONSHIP OF STRIPES,
MARKERS AND JOINTS**

- GENERAL NOTES:**
- Ⓑ TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE.
 - Ⓒ THE SOLID YELLOW PAVEMENT MARKINGS ② SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
 - Ⓓ THE SKIP-DASH PAVEMENT MARKINGS ① OR ⑦ SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER. SEE EXAMPLE ON SHEET 2 OF 3.
 - Ⓔ USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)



**TYPICAL DOUBLE
TURN ARROWS (WHITE)**



RELATIONSHIP OF EDGE LINE TO EDGE OF PAVEMENT
(SAFETY SHOULDER OR PAVED SURFACE)
SEE ARTICLE 780.04

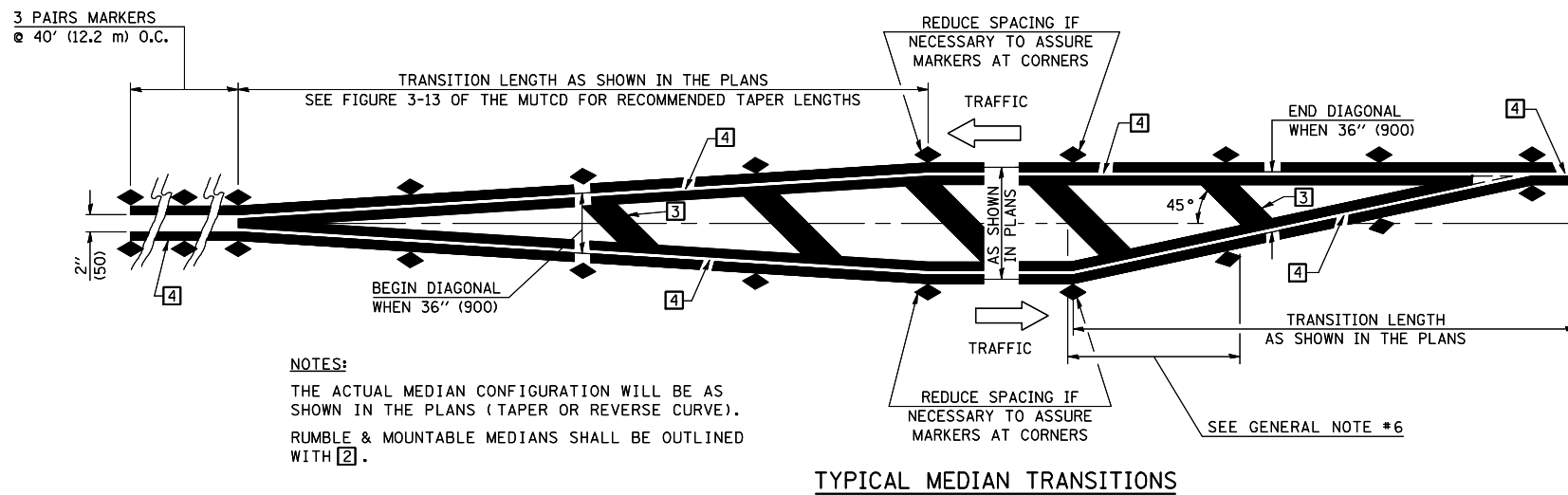
Note: All dimensions are in INCHES
(millimeters) unless otherwise shown.

DATE	REVISIONS	NAME
11/06	REPLACED DETAIL F-5.25	TJB

ILLINOIS DEPARTMENT OF TRANSPORTATION
**PAVEMENT MARKING AND
MARKERS (RURAL &
URBAN APPLICATIONS)**
DISTRICT 5 DETAIL NO. 7800AAA

PLOT DATE = 7/25/2008
 FILE NAME = c:\p\proj\pavement\7800aaa\11020806.mxd
 PLOT SCALE = 1/8" = 1' IN.
 USER NAME = kejarb

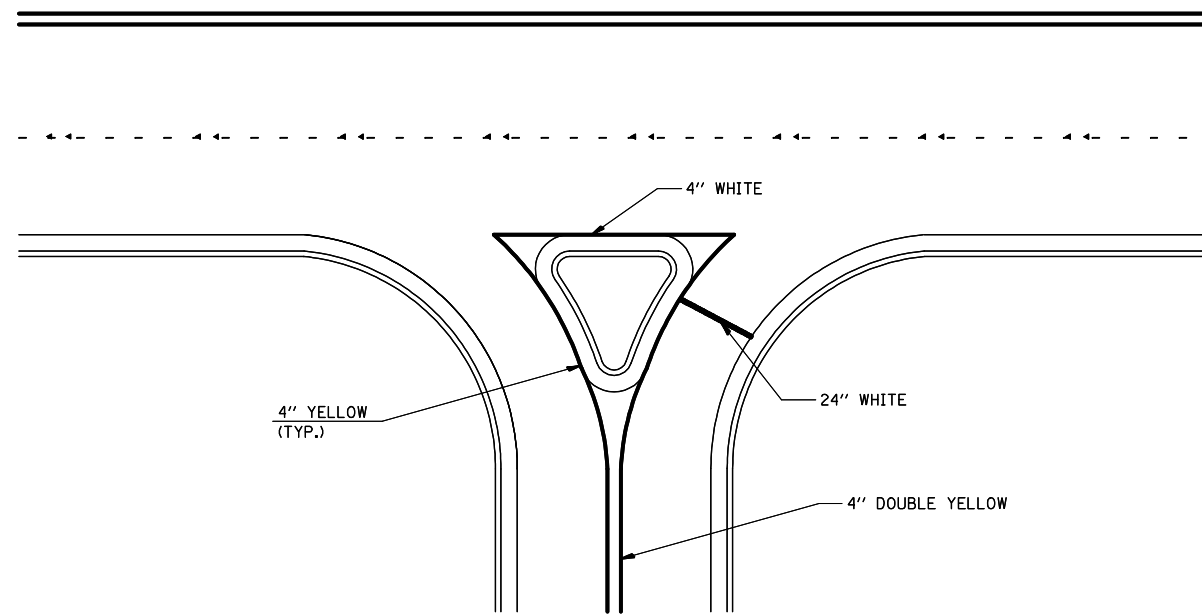
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	GRS-1	DOUGLAS	176	110
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 90711				



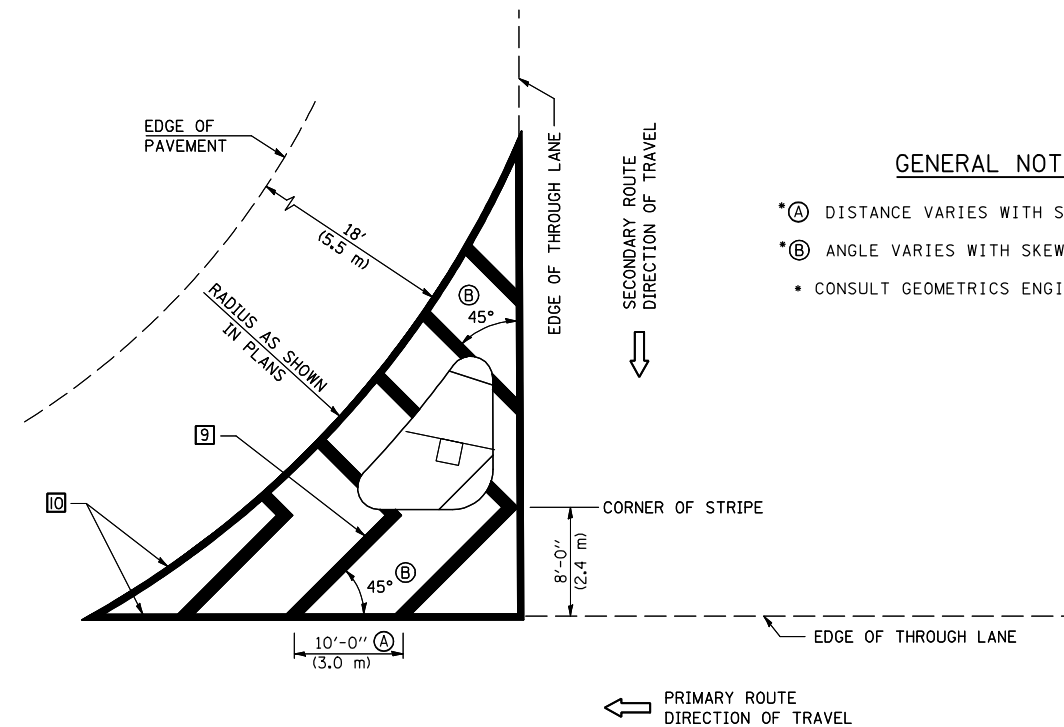
TYPICAL MEDIAN TRANSITIONS

GENERAL NOTES

1. WHEN MEDIANS ARE PRESENT, PAVEMENT MARKINGS ARE TO BE PLACED ADJACENT TO MEDIANS.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. A STRIPING KEY IS AVAILABLE ELSEWHERE AND SHALL BE SHOWN WHERE THE QUANTITIES ARE LISTED.
5. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
6. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING,
 < 30 MPH USE 15' (< 50 km/h USE 4.5 m)
 30-45 MPH USE 20' (50-75 km/h USE 6.0 m)
 > 45 MPH USE 30' (> 75 km/h USE 9.0 m)



RIGHT IN - RIGHT OUT ACCESS



GENERAL NOTES

- * A DISTANCE VARIES WITH SKEW OF INTERSECTION.
- * B ANGLE VARIES WITH SKEW OF INTERSECTION.
- * CONSULT GEOMETRICS ENGINEER

ISLAND

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

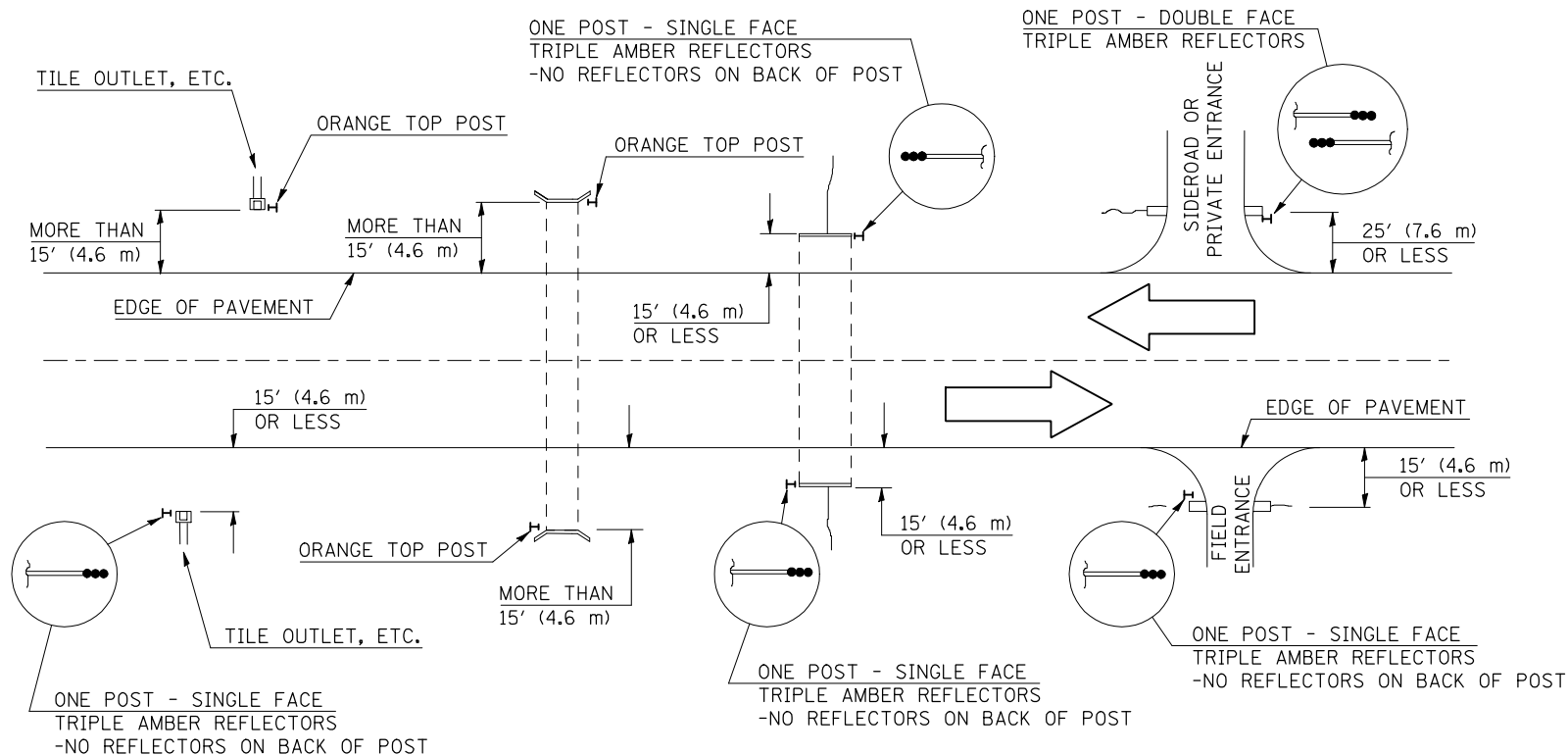
DATE	REVISIONS	NAME	ILLINOIS DEPARTMENT OF TRANSPORTATION
11/06	REPLACED DETAIL F-5.25	TJB	PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)
			DISTRICT 5 DETAIL NO. 7800AAA

PLOT DATE = 7/25/2008
 FILE NAME = c:\p\projects\4502846\2007_08_13\submit\11022846.mxd\detail1101-930.dgn
 PLOT SCALE = 1/8"=1'-0"
 USER NAME = kejarb

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	•	DOUGLAS	176	111
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 90711
• 6RS-1 & 6BR1BR

IDENTIFICATION OF ROADSIDE HAZARDS FOR TWO-LANE ROADWAYS



BILL OF MATERIALS

DELINEATOR TYPE	SINGLE FACE	DOUBLE FACE	NO REFLECTOR	TOTAL DELINEATORS
SINGLE CRYSTAL		N/A	N/A	
DOUBLE CRYSTAL			N/A	
SINGLE AMBER			N/A	
DOUBLE AMBER		N/A	N/A	
TRIPLE AMBER			N/A	
ORANGE TOP	N/A	N/A		
			TOTAL	

NOTES

DELINEATORS FOR ROADSIDE HAZARDS SHALL ONLY BE PLACED AT LOCATIONS WHERE THERE IS NO GUARDRAIL, OR OTHER PERMANENT BARRIER, ON THE SAME SIDE OF ROAD AS THE HAZARD.

DELINEATORS FOR ROADSIDE HAZARDS SHALL ONLY BE PLACED AT LOCATIONS WHERE DELINEATORS ARE NOT IN PLACE ALONG THE EDGE OF SHOULDER.

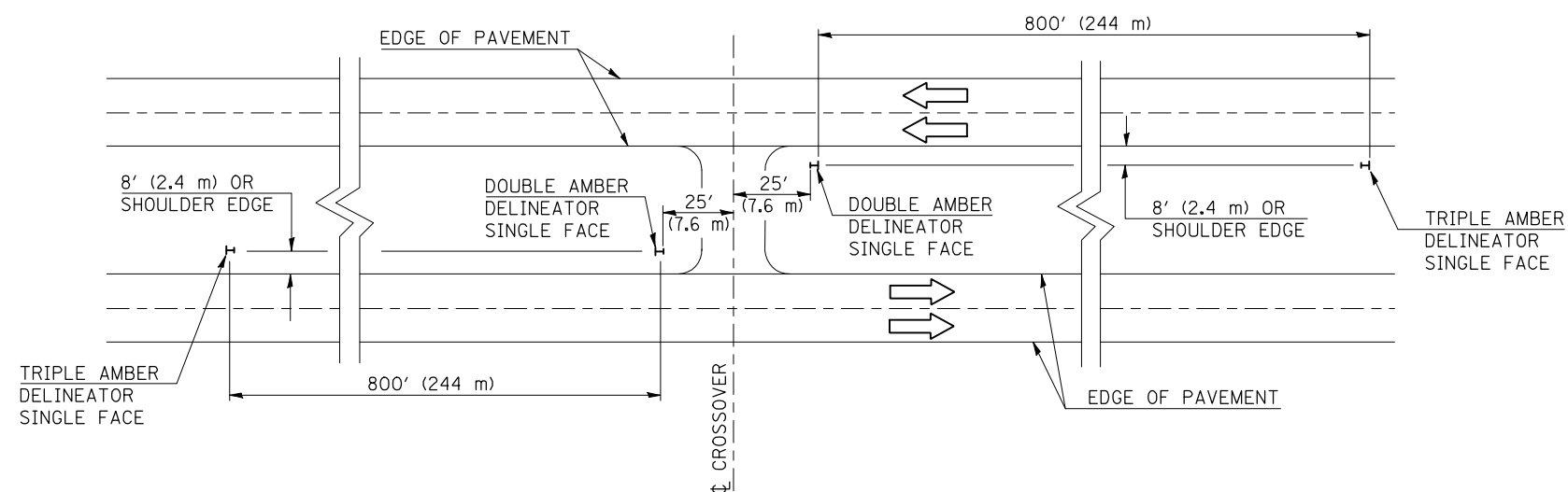
EACH POST SHALL BE CONSIDERED AS ONE DELINEATOR FOR PAYMENT, REGARDLESS OF THE NUMBER OF DELINEATORS ATTACHED TO IT.

POSTS INDICATED AS "ORANGE TOP" SHALL HAVE NO REFLECTORS. THEY SHALL HAVE THE TOP 12" (300 mm) (MINIMUM) OF THE POST PAINTED A BRIGHT ORANGE COLOR SIMILAR TO CONSTRUCTION SIGNS, AND SHALL MEET THE APPROVAL OF THE ENGINEER. FLUORESCENT PAINT OR OTHER SPECIAL RETROREFLECTIVE COATINGS WILL NOT BE REQUIRED.

FOR ONE-WAY ROADWAYS THE APPLICATION SHALL BE SIMILAR WITH DELINEATORS PLACED ON THE TRAFFIC APPROACH SIDE OF HAZARDS AND OBJECTS. ONLY SINGLE FACE DELINEATORS WILL BE REQUIRED ON ONE-WAY ROADWAYS.

FOR OTHER DELINEATOR APPLICATIONS, REFER TO HIGHWAY STANDARD 635001.

MEDIAN DELINEATORS AT CROSSOVER (FOR INTERSTATES, EXPRESSWAYS, DUAL HIGHWAYS)



Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DATE	REVISIONS	NAME
12/06	REPLACED DETAIL F-5.13	TJB

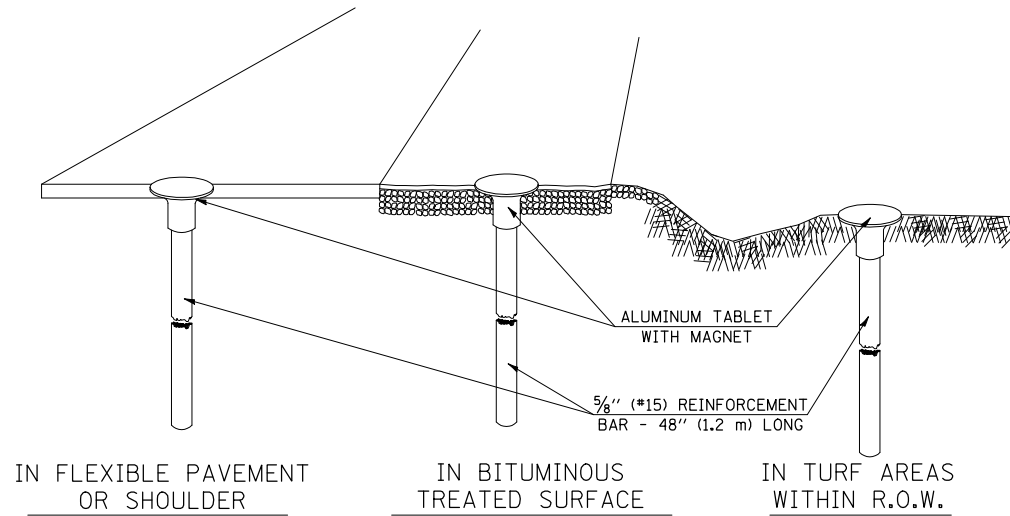
ILLINOIS DEPARTMENT OF TRANSPORTATION

DELINEATORS

DISTRICT 5 DETAIL NO. 63500105

XZ193300 – SURVEY MARKER, TYPE 1 (SPECIAL)

TO BE INSTALLED IN FLEXIBLE PAVEMENT OR SHOULDER, BITUMINOUS TREATED SURFACE AND TURF AREAS WITHIN THE RIGHT-OF-WAY FOR PRESERVING PERMANENT SURVEY MARKERS (PI'S, PT'S, PC'S, POC'S, & POT'S)



SPECIFICATIONS FOR ALUMINUM TABLET

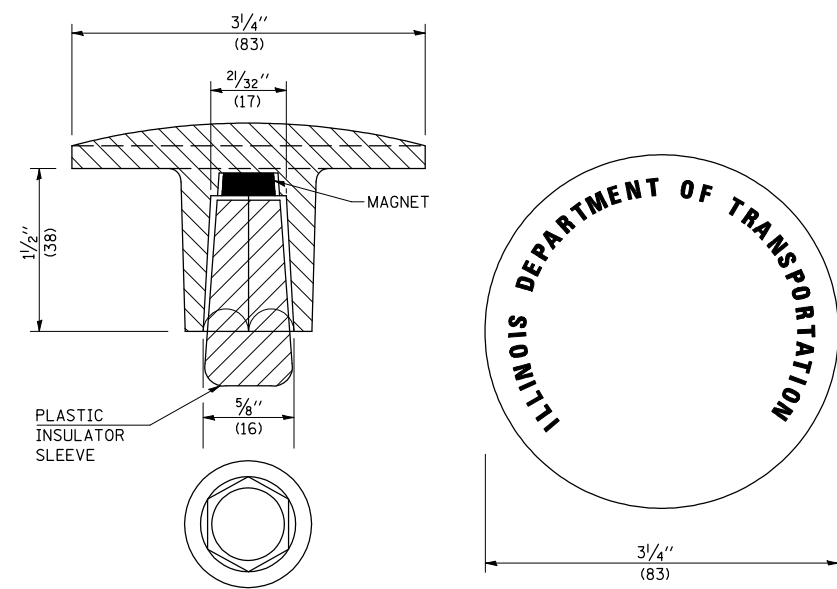
SURVEY CAP FOR REBAR. 3/4" (83 mm) CONVEX SURVEY CAP FOR 5/8" (15 mm) REBAR WITH ILLINOIS DEPARTMENT OF TRANSPORTATION LOGO. THIS LOGO SHALL PROVIDE LETTERS RECESSED INTO THE SURFACE A MINIMUM OF 1/32" (0.8 mm) FOR EASY AND LONG-TERM LEGIBILITY. THE ALUMINUM CAP FOR REBAR SHALL BE PRODUCED BY THE PROCESS OF ORBITAL FORGING TO PRODUCE A HIGH-STRENGTH AND DURABLE MARKER CAP WHICH WILL NOT CHIP OR BREAK AND PROVIDE A SMOOTH FINISH FOR STAMPING OF DATA IN THE FIELD. THE ALUMINUM CAP FOR REBAR SHALL BE TAPERED FOR A PERFECT COMPRESSION FIT. A SPECIAL PLASTIC INSULATOR SHALL BE INSTALLED TO PREVENT DISSIMILAR METAL CONTACT AND CORROSION. THE PLASTIC INSULATOR SHALL FORM READILY TO THE OUTER SHAPE OF THE REBAR AND TO THE INNER SHAPE OF THE ALUMINUM CAP SOCKET. THE PLASTIC INSULATOR SHALL BE LOW DENSITY POLYETHYLENE, A MINIMUM 1 1/2" (38 mm) LONG AND CONFORM TO FEDERAL SPECIFICATION L-P 390.

COMPOSITION: ALUMINUM 98.3-98.7%; OTHER 1.3-1.7%; STRENGTH: YIELD 28 KSI (193 MPa), ULTIMATE 32 KSI (221 MPa). ELONGATION 15% [IN 2" (50 mm)]. SPECIFICATIONS: ALUMINUM ALLOY 6101-0; ASTM B317-83 (EXCEPT TEMPER) AS FORGED. NO EXCEPTIONS.

SPECIFICATIONS FOR REBAR

REBAR FOR ALUMINUM TABLET. REINFORCEMENT BAR SHALL BE 5/8" (#15) X 48" (1.2 m) (DEFORMED).

INSPECTION OF REINFORCEMENT BAR 5/8" (#15) SHALL BE DONE BY DISTRICT PERSONNEL OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS.



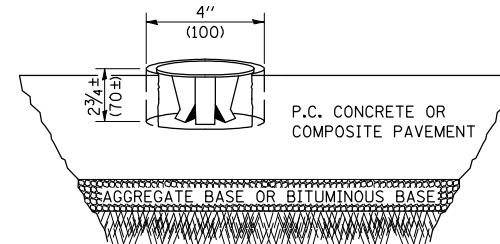
THE DIMENSIONS SHOWN SHALL BE EXACT, OTHERS MAY VARY, BUT SHALL BE SHOWN ON SHOP DRAWINGS.

GENERAL NOTES

1. THE CONTRACT UNIT PRICE, EACH, FOR SURVEY MARKER, TYPE I, (SPECIAL) SHALL BE PAYMENT IN FULL FOR FURNISHING THE SURVEY MARKER.
2. ALL SURVEY MARKERS, TYPE I, (SPECIAL) SHALL BE PLACED ± 1/4" (6 mm) BELOW THE FINAL SURFACE.
3. WHEN THE TABLET AND REBAR ARE PLACED AS PART OF A SURVEY MARKER VAULT, THEY SHALL BE CONSIDERED AS INCLUDED IN THAT PAY ITEM AND THERE WILL BE NO PAYMENT FOR THE SURVEY MARKER, TYPE I, (SPECIAL).

XZ193400 – SURVEY MARKER, TYPE 2 (SPECIAL)

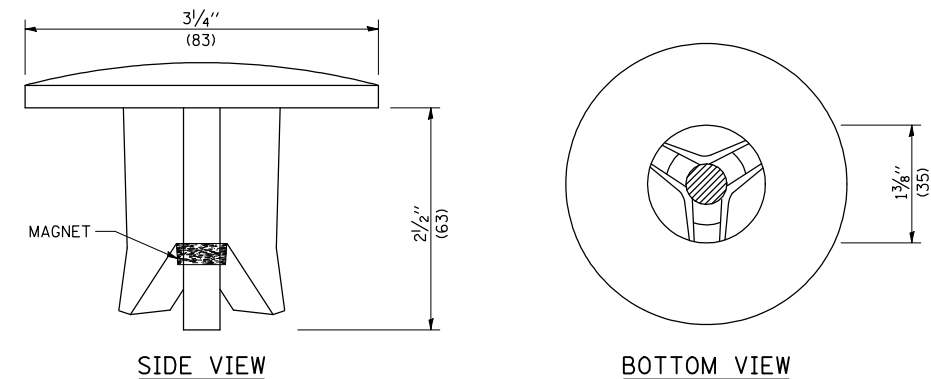
TO BE INSTALLED IN RIGID OR COMPOSITE PAVEMENT FOR PRESERVING PERMANENT SURVEY MARKERS (PI'S, PT'S, PC'S, POC'S, & POT'S)



SPECIFICATIONS FOR ALUMINUM TABLET (FORKED)

ALUMINUM TABLET (FORKED) FOR USE WITH "SURVEY MARKER, TYPE 2, (SPECIAL)" SHALL BE AS SHOWN ON THE DETAIL FOR THE 3/4" (83 mm) CONVEX SURVEY TABLET WITH ILLINOIS DEPARTMENT OF TRANSPORTATION LOGO. THIS LOGO SHALL PROVIDE LETTERS RECESSED INTO THE SURFACE A MINIMUM OF 1/32" (0.8 mm) FOR EASY AND LONG-TERM LEGIBILITY. THE ALUMINUM TABLET SHALL BE PRODUCED BY THE PROCESS OF ORBITAL FORGING TO PRODUCE A HIGH-STRENGTH AND DURABLE MARKER CAP WHICH WILL NOT CHIP OR BREAK AND PROVIDE A SMOOTH FINISH FOR STAMPING OF DATA IN THE FIELD. THE ALUMINUM TABLET SHALL BE DESIGNED NOT TO TURN OR ROTATE. THREE PRONGS ON A 2 1/2" (63 mm) STEM SHALL BE SUCH THAT THE ALUMINUM TABLET CANNOT BE EASILY REMOVED.

COMPOSITION: ALUMINUM 92-93%; MAGNESIUM 6.5-7.5%. STRENGTH: YIELD 19,000-21,000 PSI (131-145 MPa); TENSILE 38,000-44,000 PSI (262-303 MPa); ELONGATION 10-15% [IN 2" (50 mm)]. SPECIFICATIONS: ALLOY 535.0; 00-A-601ES. NO EXCEPTIONS.



THE DIMENSIONS SHOWN SHALL BE EXACT, OTHERS MAY VARY, BUT SHALL BE SHOWN ON SHOP DRAWINGS.

GENERAL NOTES

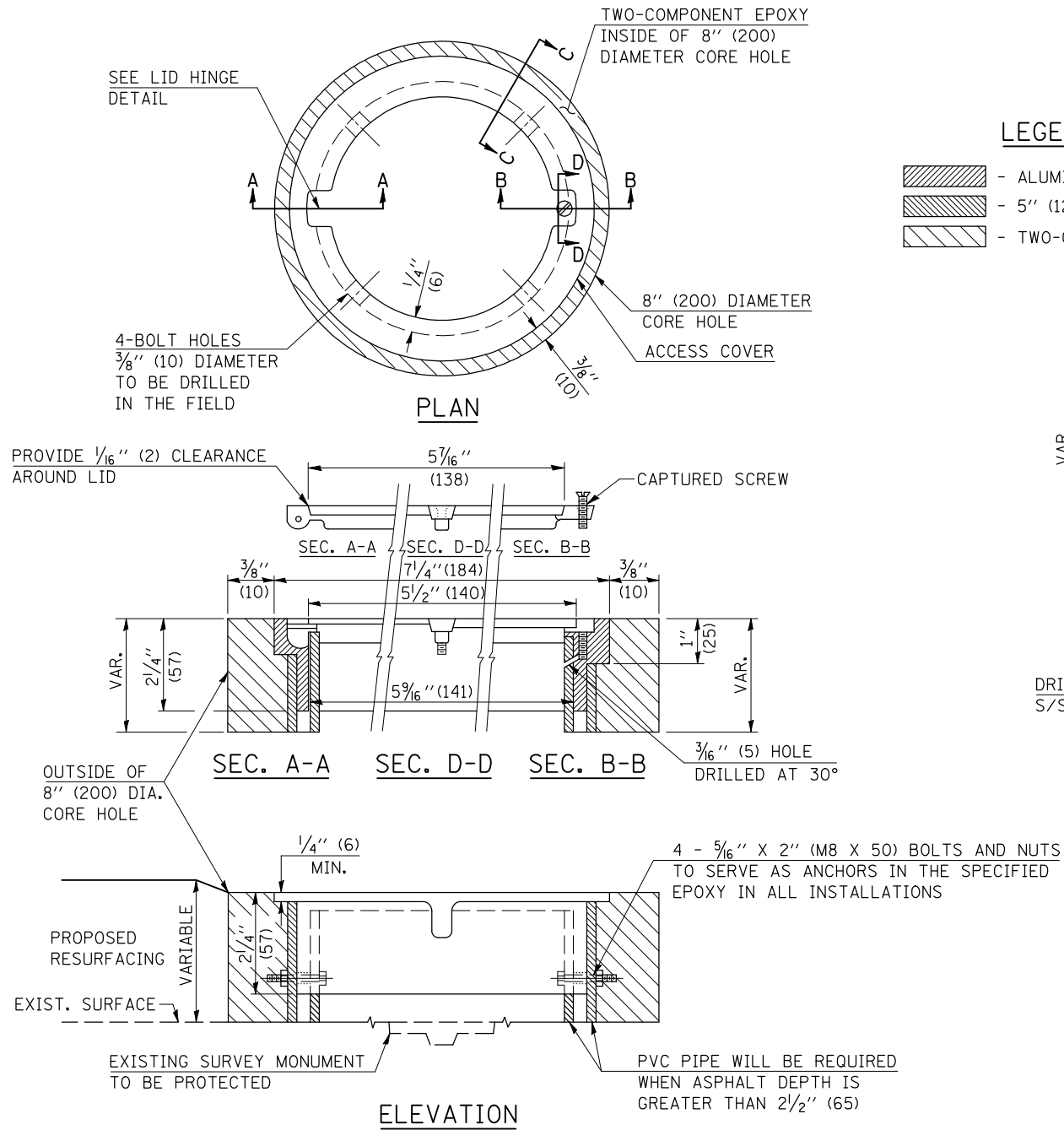
1. WORK ON THIS ITEM SHALL NOT START UNTIL THE FINAL SURFACE IS COMPLETED.
2. THE ALUMINUM TABLET (FORKED) SHALL REST UPON THE BOTTOM OF THE 4" (100 mm) CORE HOLE. IF THE HOLE IS TOO DEEP, EPOXY GROUT MUST BE USED TO DECREASE THE DEPTH AND ALLOWED TO HARDEN BEFORE PROCEEDING.
3. THE ALUMINUM TABLET SHALL BE ANCHORED IN THE 4" (100 mm) DIAMETER HOLE IN THE NEW PAVEMENT WITH TWO-COMPONENT EPOXY CONFORMING TO APPLICABLE PORTIONS OF ARTICLE 1025.01 OF THE STANDARD SPECIFICATIONS.
4. THE 4" (100 mm) CORE HOLE SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
5. THE CONTRACT PRICE, EACH, FOR SURVEY MARKER, TYPE 2 (SPECIAL) SHALL BE PAYMENT IN FULL FOR FURNISHING THE ALUMINUM TABLET AND ALL LABOR AND MATERIAL TO SET THE MARKER IN PLACE, AS SPECIFIED, INCLUDING CORING THE NEW PAVEMENT.
6. ALL SURVEY MARKERS, TYPE 2 (SPECIAL) SHALL BE PLACED ± 1/4" (6 mm) BELOW THE FINAL SURFACE.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DATE	REVISIONS	NAME	ILLINOIS DEPARTMENT OF TRANSPORTATION
11/06	REPLACED DETAIL D-1.05	TJB	<p align="center">SURVEY MARKERS TYPE 1 & 2 (SPECIAL)</p> <p align="center">DISTRICT 5 DETAIL NO. XZ193AAA</p>

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	•	DOUGLAS	176	113
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 90711				
• 6RS-1 & 6BR/BR				

TO BE INSTALLED IN ALL PAVEMENT TYPES FOR PRESERVING PERMANENT SURVEY MARKERS (PI'S, PT'S, PC'S, POC'S, & POT'S) AND LAND SURVEY MONUMENTS (SECTION OR SUBSECTION CORNERS)



LEGEND

- ALUMINUM CASTING
- 5" (125) OR 6" (150) P.V.C. PIPE
- TWO-COMPONENT EPOXY

SPECIFICATIONS FOR ACCESS COVER FOR USE WITH SURVEY MARKER VAULT(S) AND SURVEY MARKER COVER ASSEMBLY(S): THE ACCESS COVER WILL BE CAST FROM A SPECIAL ALUMINUM ALLOY THAT IS COMPARABLE TO BRONZE IN HARDNESS. THE ACCESS COVER SHALL BE SPECIALLY ENGINEERED AND DESIGNED TO PROVIDE A SNUG FIT, INCORPORATING EQUIDISTANT LOCKING RIDGES, INSIDE A STANDARD 6" (150 mm) DIAMETER, OR OUTSIDE A STANDARD 5" (125 mm) DIAMETER, SCHEDULE 40 PVC PIPE. THE ACCESS COVER SHALL HAVE SPECIAL UNIFORM 1" (25 mm) THICK TOP SURFACE TO PERMIT INFORMATION TO BE EASILY MACHINE-STAMPED INTO IT. THE ACCESS COVER SHALL INCLUDE A STAINLESS CAPTURED SCREW AND AN OPPOSING RECESSED HINGE ASSEMBLY AS ITS LOCKING MECHANISM. THE ACCESS COVER SHALL INCORPORATE A SPECIAL ACCESS HOLE FOR CLEANING AND DRAINAGE, DRILLED AT 30° INSIDE THE RING OF THE ACCESS COVER, TO THE DRILLED AND TAPPED HOLE PROVIDED FOR THE STAINLESS CAPTURED SCREW. COMPOSITION: ALUMINUM 92-93%; MAGNESIUM 6.5-7.5%. STRENGTH: YIELD - 19,000-21,000 PSI (131-145 MPa); TENSILE - 38,000-44,000 PSI (262-303 MPa); ELONGATION - 10-15% IN 2" (50 mm). SPECIFICATIONS: ALLOY 535.0; QQ-A-601Es. NO EXCEPTIONS.

BILL OF MATERIAL

ALUMINUM CASTING OF THE DIMENSIONS AND SPECIFICATIONS SHOWN OR OTHER SUBJECT TO ENGINEER'S APPROVAL OF SHOP DRAWINGS, 4 EACH - 5/16" X 2" (M8 X 50) BOLTS WITH NUTS, EPOXY, 5" OR 6" (125 mm OR 150 mm) DIAMETER P.V.C. PIPE, SCHEDULE 40 (WHEN REQUIRED).

GENERAL NOTES

1. WORK SHALL NOT START ON THIS ITEM UNTIL THE FINAL LIFT OF SURFACE HAS BEEN COMPLETED.
2. THE SURVEY MONUMENT COVER ASSEMBLY SHALL BE CENTERED ABOVE THE SURVEY MONUMENT TO BE PROTECTED.
3. MODIFICATION OF THE ALUMINUM CASTING SHALL BE DONE BY GRINDING OR SAWING WHEN HEIGHT REDUCTION IS REQUIRED.
4. ALL SURVEY MONUMENT COVER ASSEMBLIES SHALL BE PLACED 1/4" (6 mm) ± BELOW THE FINAL SURFACE.
5. ALUMINUM CASTING SHALL BE PLACED OVER A 5" (125 mm) P.V.C. PIPE OR INSIDE OF A 6" (150 mm) P.V.C. PIPE WHEN AN INCREASE IN HEIGHT IS REQUIRED.
6. THE CASTING SHALL BE ANCHORED IN THE 8" (200 mm) DIAMETER CORE HOLE WITH TWO-COMPONENT EPOXY CONFORMING TO APPLICABLE PORTIONS OF ARTICLE 1025.01 OF THE STANDARD SPECIFICATIONS.
7. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR SURVEY MONUMENT COVER ASSEMBLY WHICH PRICE SHALL INCLUDE ALL LABOR AND MATERIAL AS SPECIFIED INCLUDING CORING THE NEW PAVEMENT SURFACE AND EPOXY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
8. THE 8" (200 mm) DIAMETER CORE HOLE SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

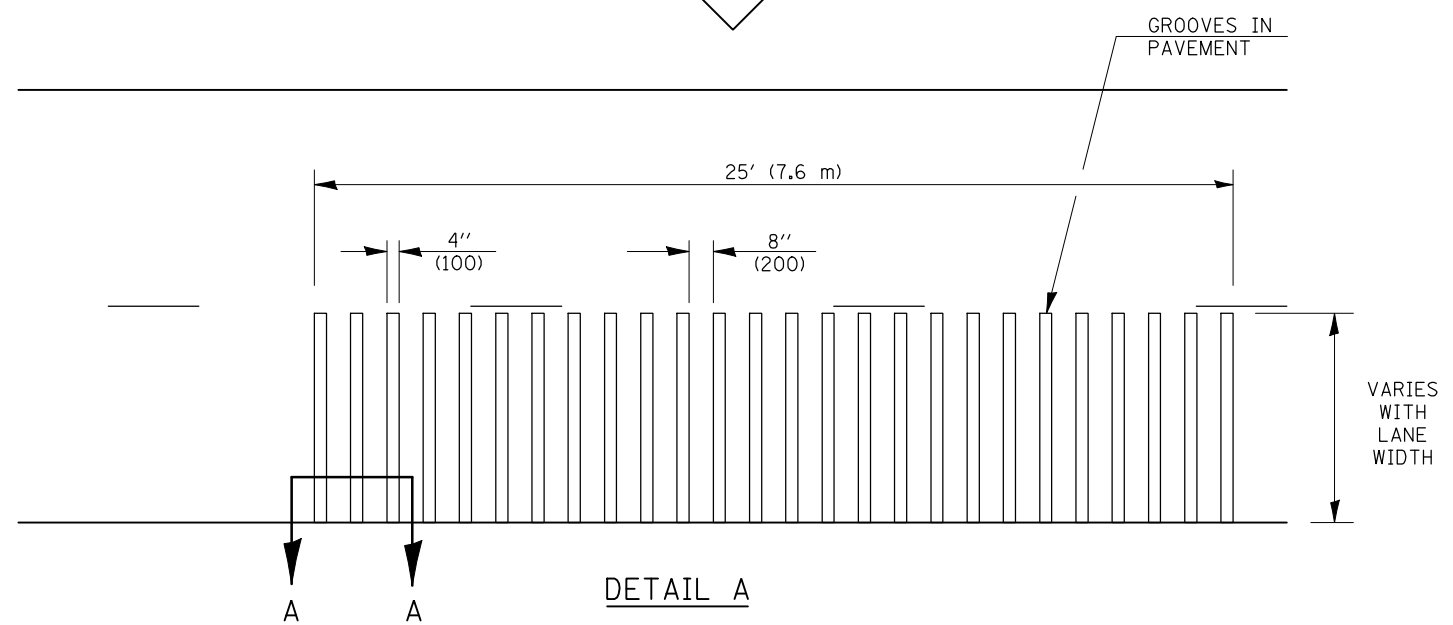
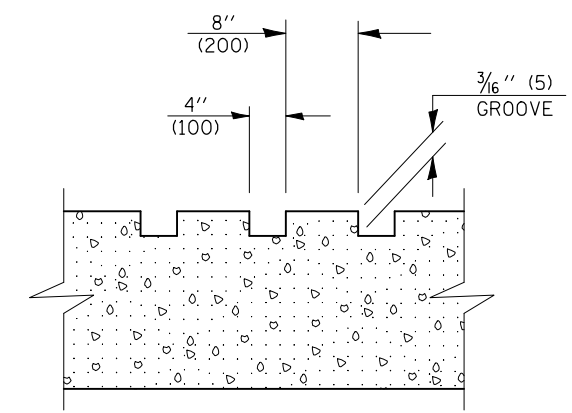
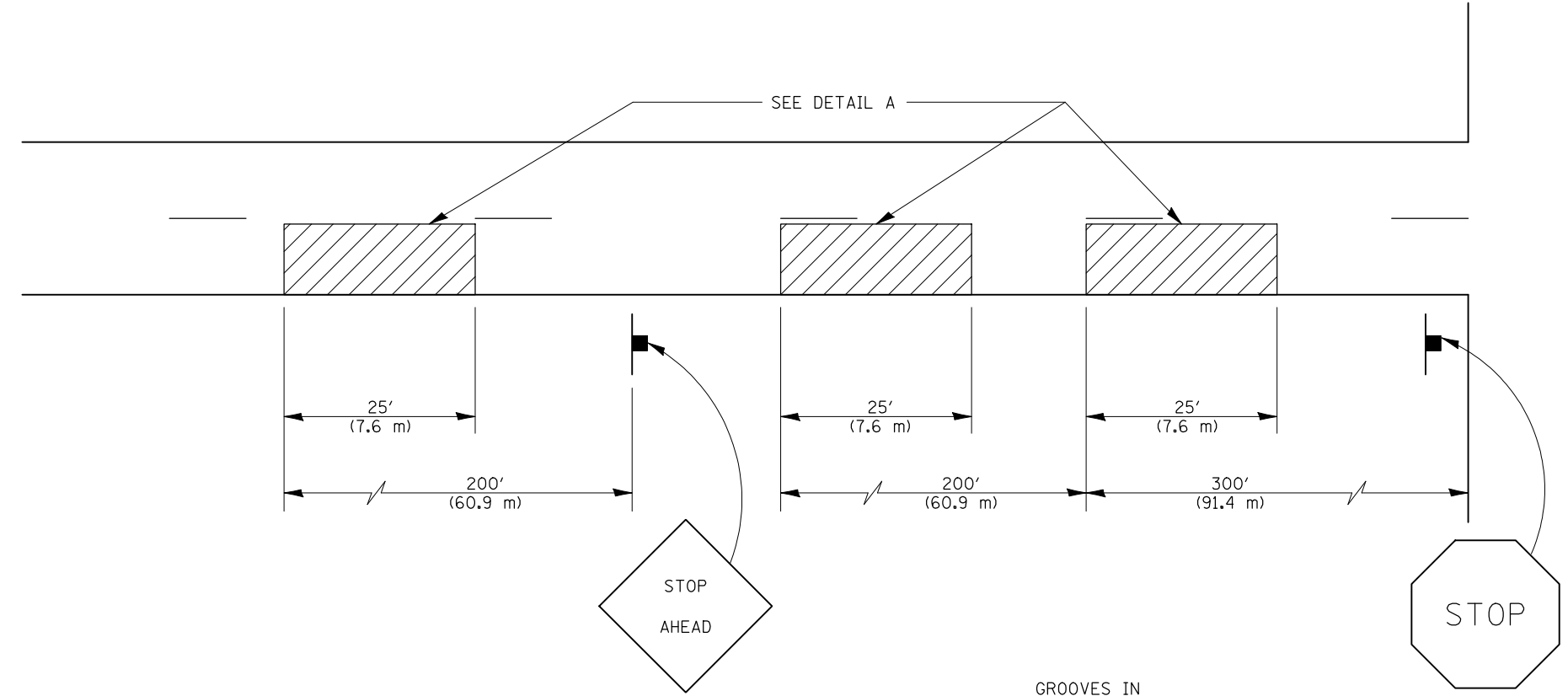
DATE	REVISIONS	NAME	ILLINOIS DEPARTMENT OF TRANSPORTATION
11/06	REPLACED DETAIL D-1.04	TJB	SURVEY MONUMENT COVER ASSEMBLY
			DISTRICT 5 DETAIL NO. Z0070100

PLOT DATE = 7/25/2008
 FILE NAME = c:\p\projects\4502695\2007_08_13\submit\1102846.mxd\detail1101-930.dgn
 PLOT SCALE = 1/8"=1'-0"
 USER NAME = kejarb

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6RS-1&(6BR)BR	DOUGLAS	176	114
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 90711				

GENERAL NOTES

1. ALL GROOVES SHALL BE CONSTRUCTED USING A 4" (100 mm) MILLING HEAD OR SERIES OF 4" (100 mm) MILLING HEADS CAPABLE OF CUTTING TO THE SPECIFIED DEPTH OR ANY VARIABLE DEPTH.
2. THIS WORK WILL BE MEASURED FOR PAYMENT PER EACH 25' (7.6 m) INDIVIDUAL RUMBLE STRIP APPLIED AND PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR RUMBLE STRIP, WHICH PRICE SHALL INCLUDE ALL EQUIPMENT, MATERIAL, LABOR AND OTHER ITEMS REQUIRED TO INSTALL EACH INDIVIDUAL RUMBLE STRIP.



Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

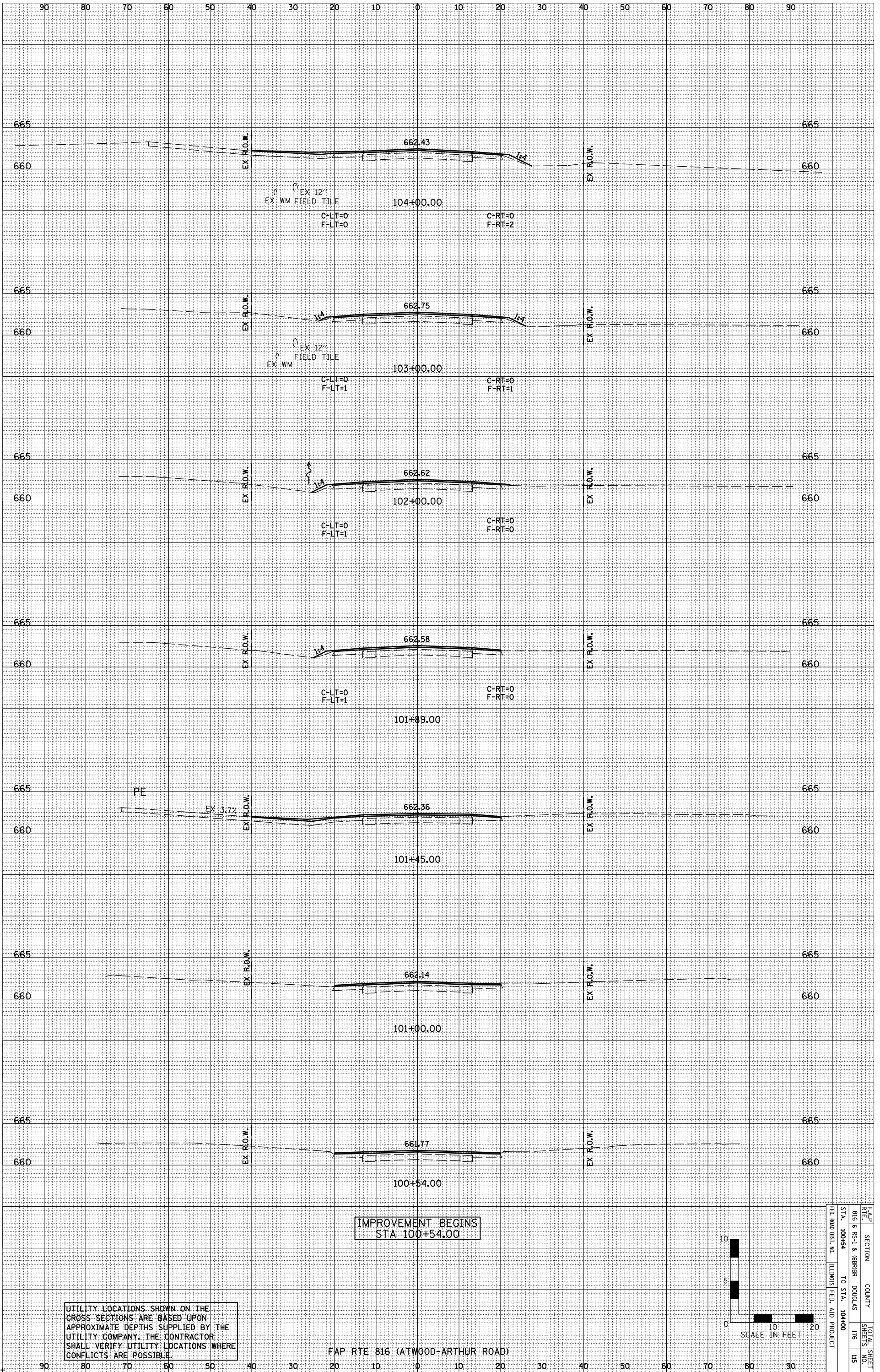
DATE	REVISIONS	NAME	ILLINOIS DEPARTMENT OF TRANSPORTATION
11/06	REPLACED DETAIL C-2.12	TJB	RUMBLE STRIP (ADVANCE OF INTERSECTIONS)
			DISTRICT 5 DETAIL NO. Z0055300

PLOT DATE = 8/21/2008
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PLOT SCALE = 1/8" = 1' / IN.
USER NAME = kejarb

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS



UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE DEPTHS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS WHERE CONFLICTS ARE POSSIBLE.

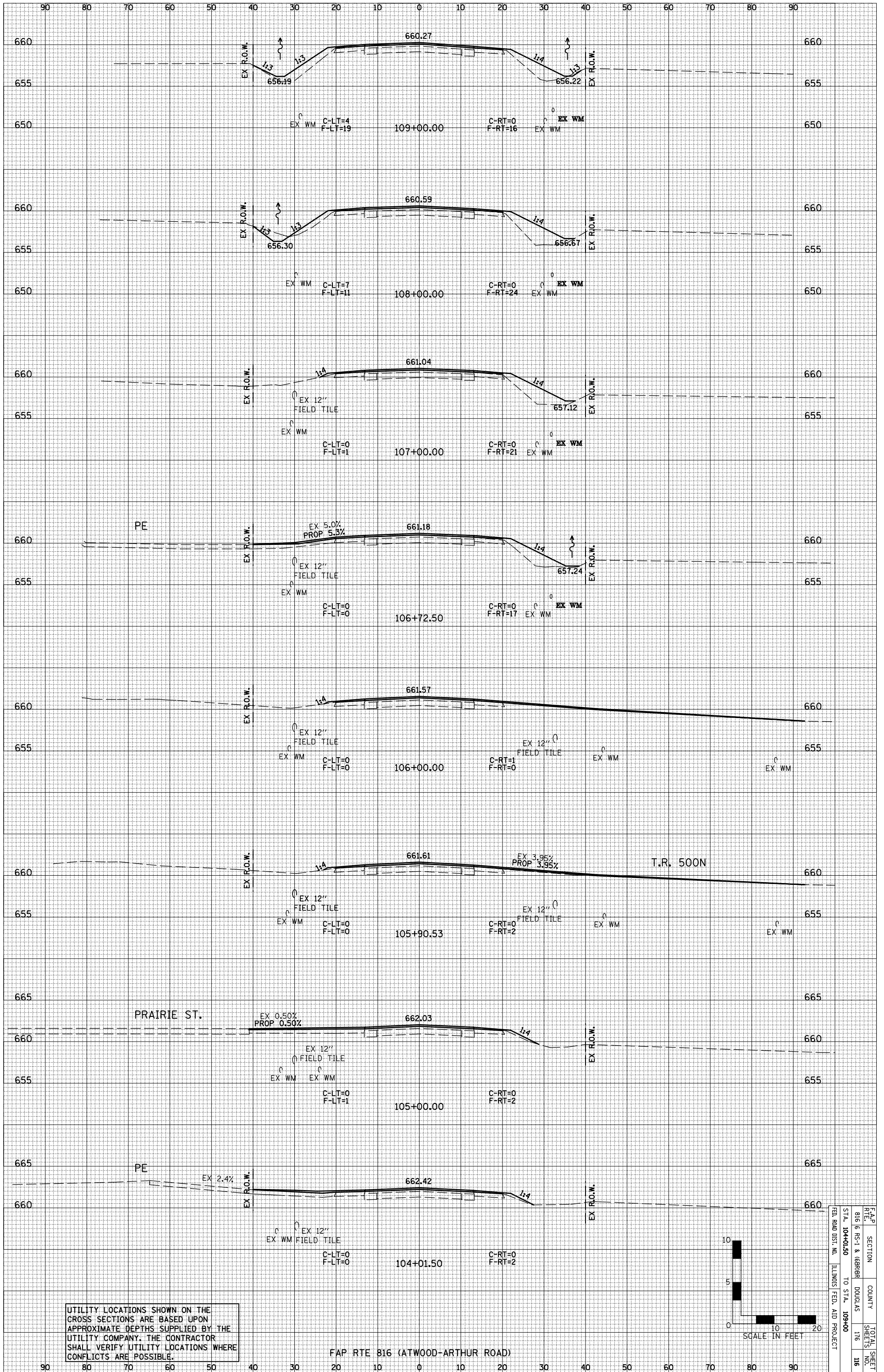
FAP RTE 816 (ATWOOD-ARTHUR ROAD)

FAP	SECTION	COUNTY	TOTAL SHEET
RTE 816	RS-1 & (6989)	DOUGLAS	116
STA. 100+54	TO STA. 104+00		115
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

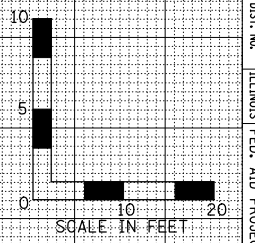
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

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FAP RTE 816 (ATWOOD-ARTHUR ROAD)

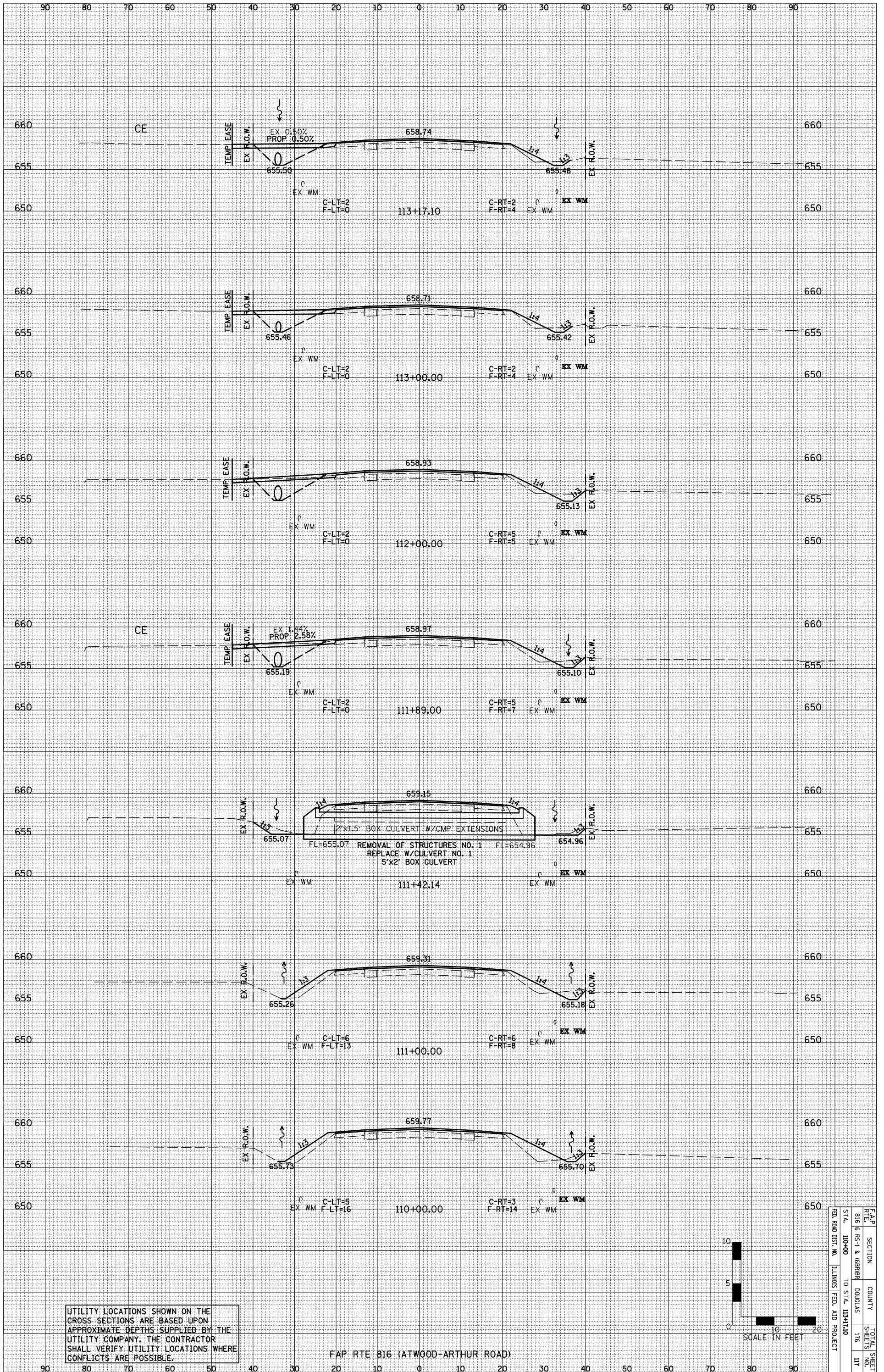


FAP	SECTION	COUNTY	TOTAL SHEET
RTE 816	RS-1 & (6888)	DOUGLAS	116
STA. 104+01.50	TO STA. 109+00		116
FEEL ROAD DIST. NO.	ILLINOIS FEEL AID PROJECT		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

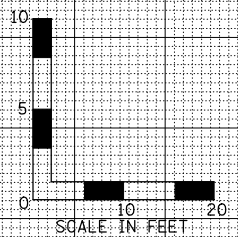
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS



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FAP RTE 816 (ATWOOD-ARTHUR ROAD)

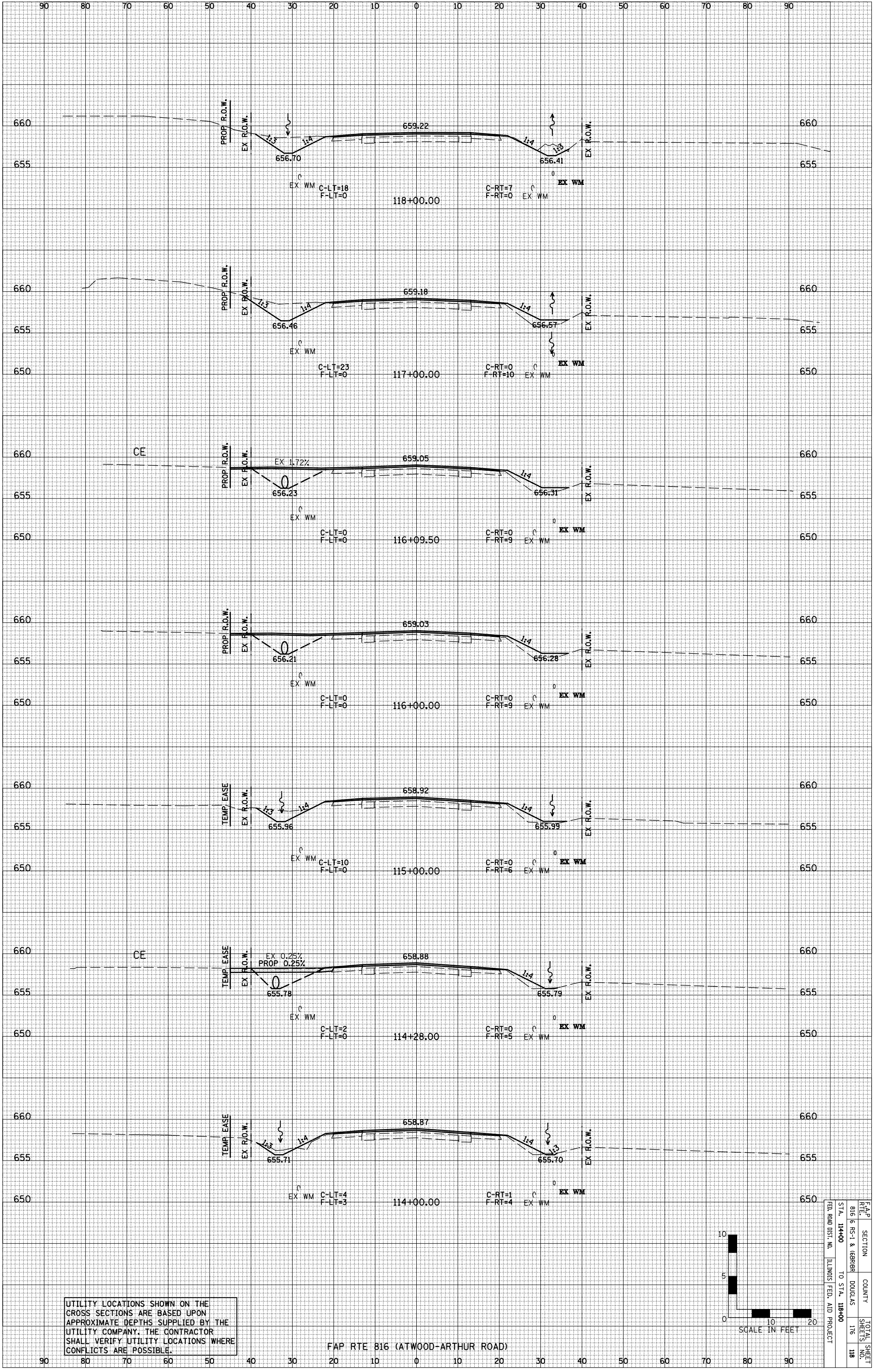


FAP	SECTION	COUNTY	TOTAL SHEET
R16	RS-1 & (6898)	DOUGLAS	116
STA. 110+00	TO STA. 113+10		117
ILLINOIS FED. AID PROJECT			

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

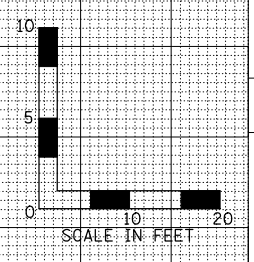
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS



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FAP RTE 816 (ATWOOD-ARTHUR ROAD)

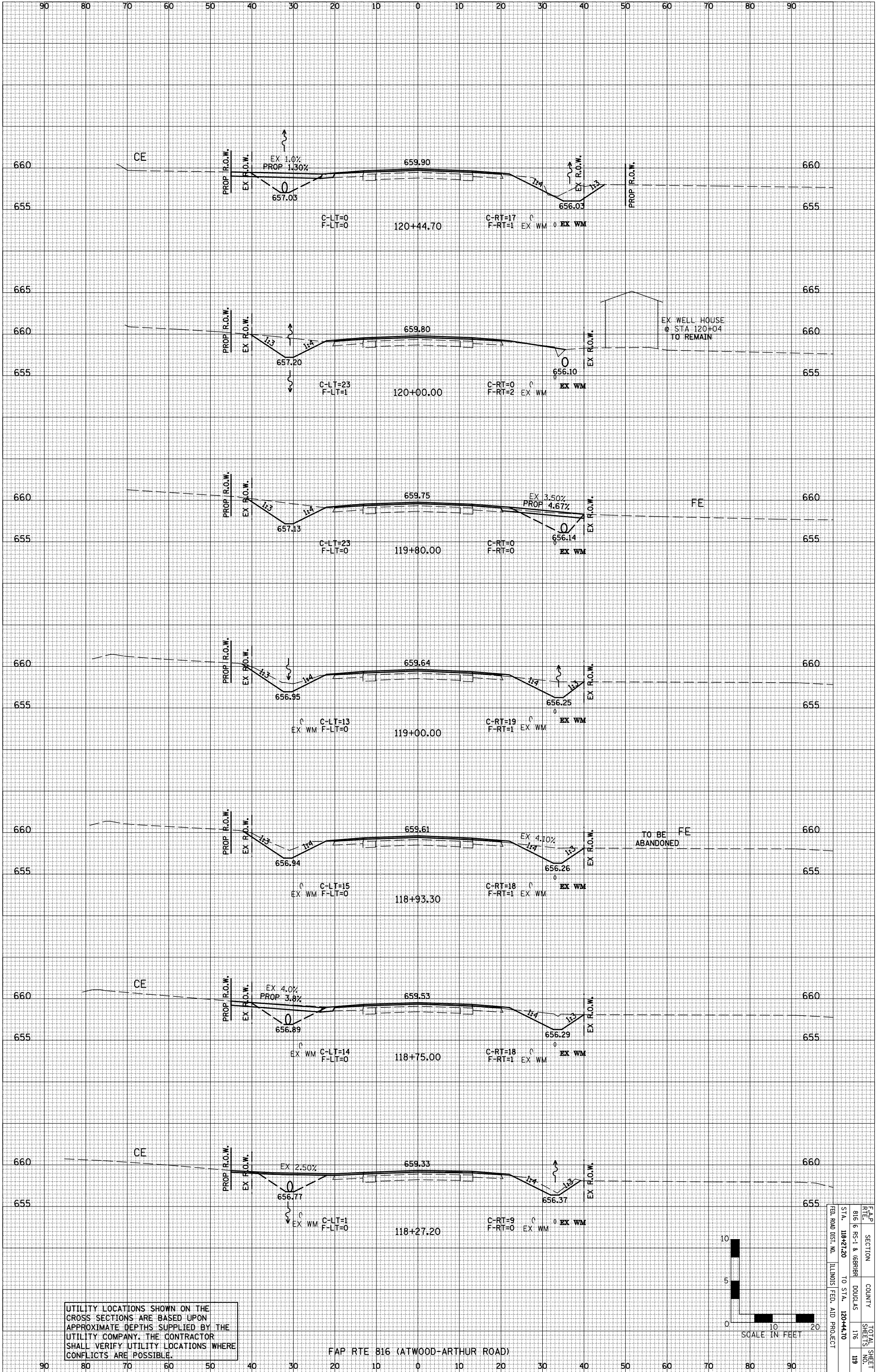


FAP	SECTION	COUNTY	TOTAL SHEET
R16	6 RS-1 & (6)RBR	DOUGLAS	116
STA. 114+00	TO STA. 118+00		118
FEED ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS



UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE DEPTHS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS WHERE CONFLICTS ARE POSSIBLE.

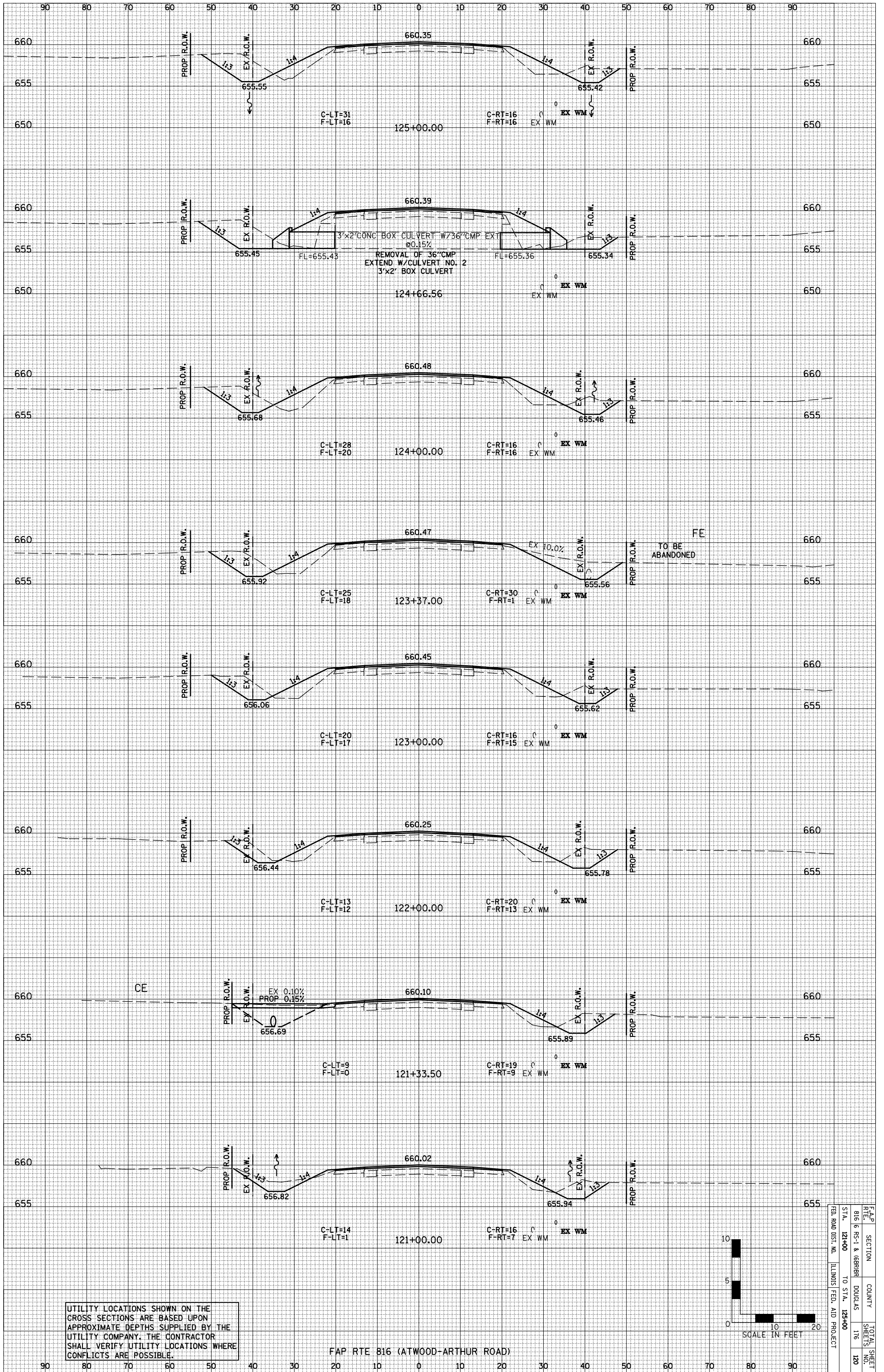
FAP RTE 816 (ATWOOD-ARTHUR ROAD)

FAP	SECTION	COUNTY	TOTAL SHEET
RTE 816	RS-1 & (698)R	DOUGLAS	116
STA. 118+27.20	TO STA. 120+44.70		119
FEED ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
NOTE BOOK		
NO.		
PLOTTED		
TEMPLATE		
AREAS		
CHECKED		

FINAL SURVEY	BY	DATE
SURVEYED		
NOTE BOOK		
NO.		
PLOTTED		
TEMPLATE		
AREAS		
CHECKED		

FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS



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FAP RTE 816 (ATWOOD-ARTHUR ROAD)

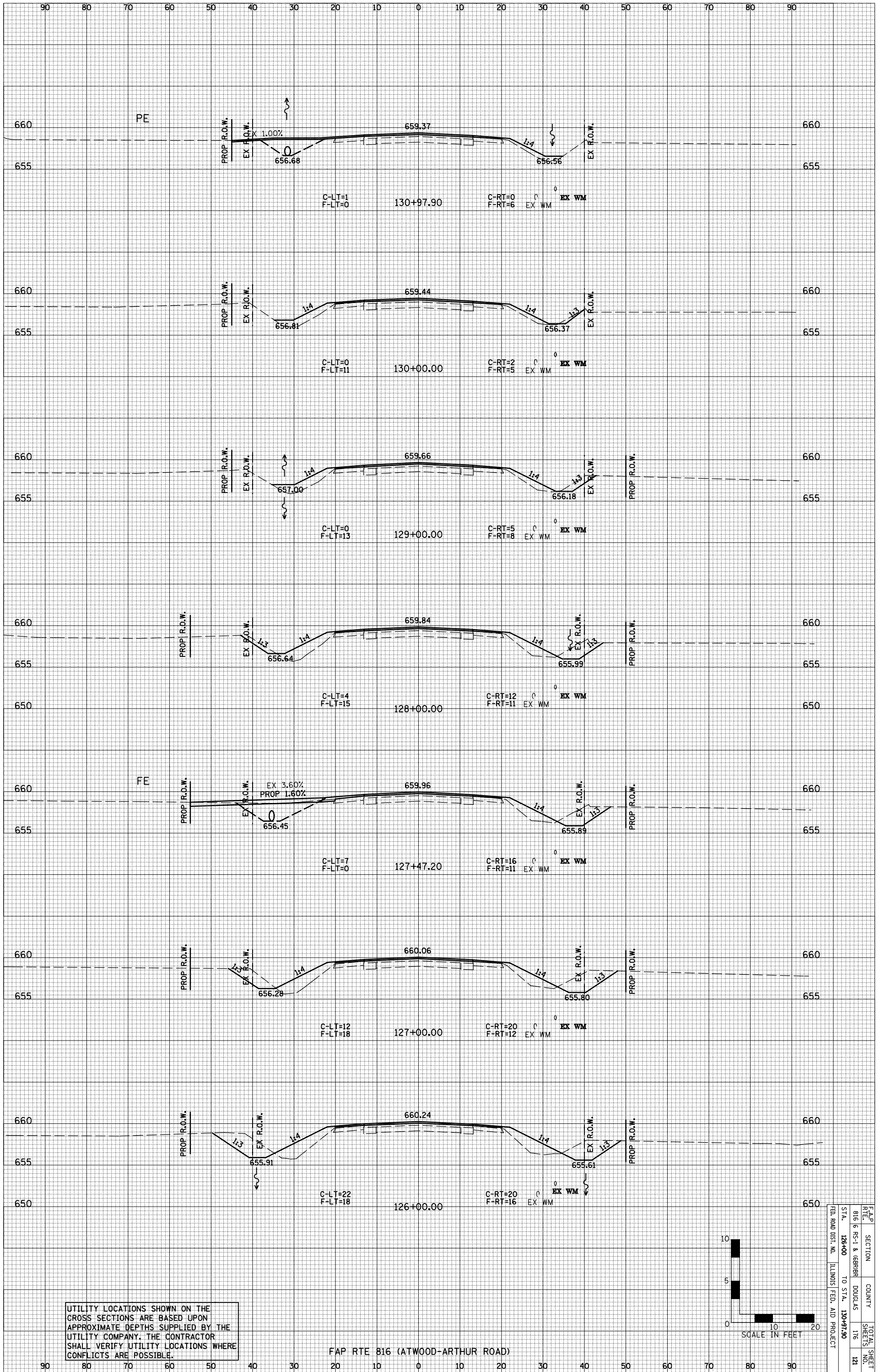


FAP	SECTION	COUNTY	TOTAL SHEET
RTE 816	RS-1 & (698)H	DOUGLAS	NO. 120
STA. 121+00	TO STA. 125+00		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

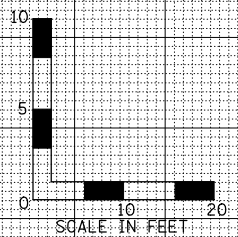
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS



UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE DEPTHS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS WHERE CONFLICTS ARE POSSIBLE.

FAP RTE 816 (ATWOOD-ARTHUR ROAD)

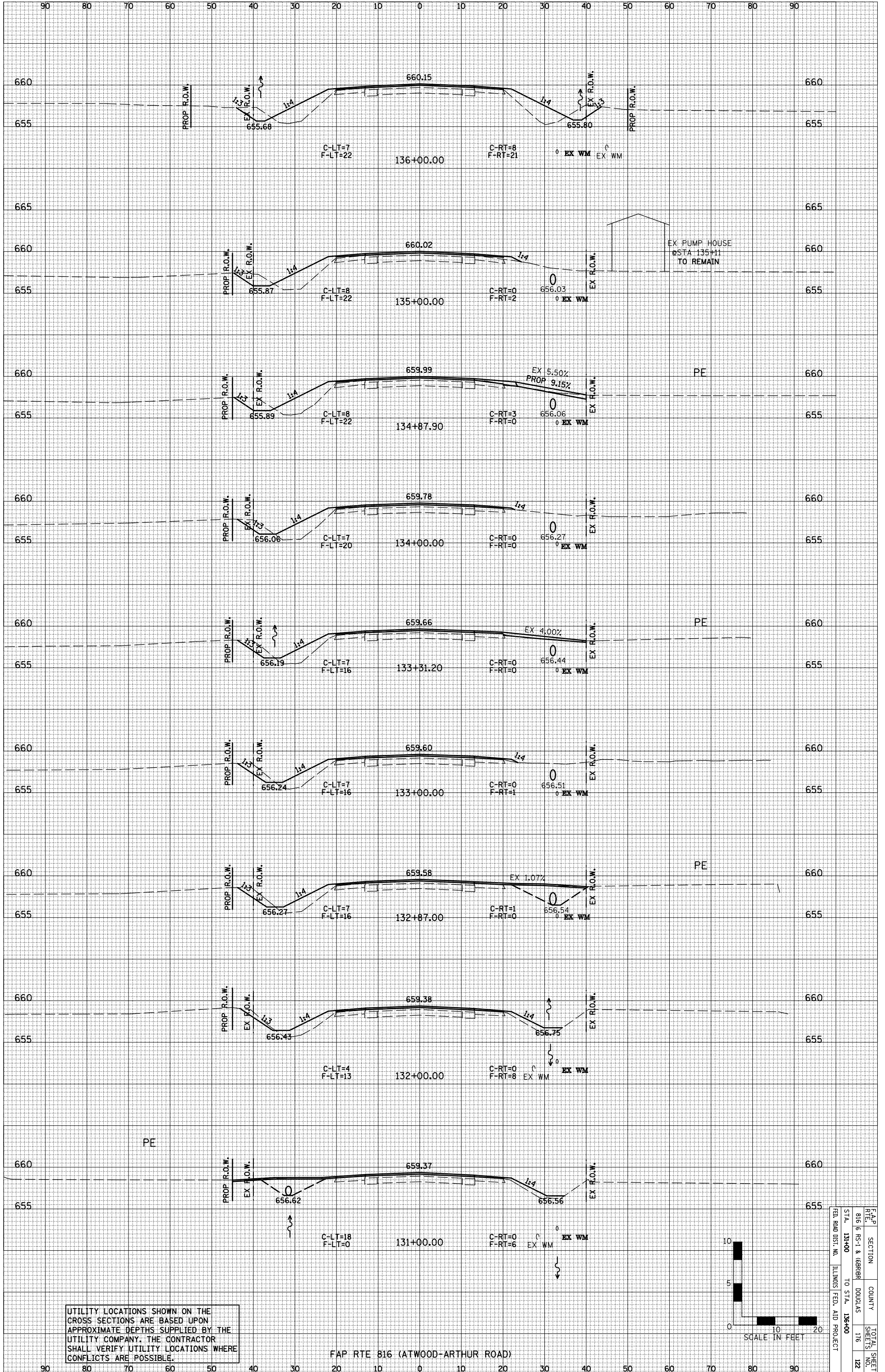


FAP	SECTION	COUNTY	TOTAL SHEET
RTE 816	RS-1 & (698)R	DOUGLAS	116
STA. 126+00	TO STA. 130+97.90		121
FEEL ROAD DIST. NO.	ILLINOIS FEEL AID PROJECT		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS



UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE DEPTHS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS WHERE CONFLICTS ARE POSSIBLE.

FAP RTE 816 (ATWOOD-ARTHUR ROAD)

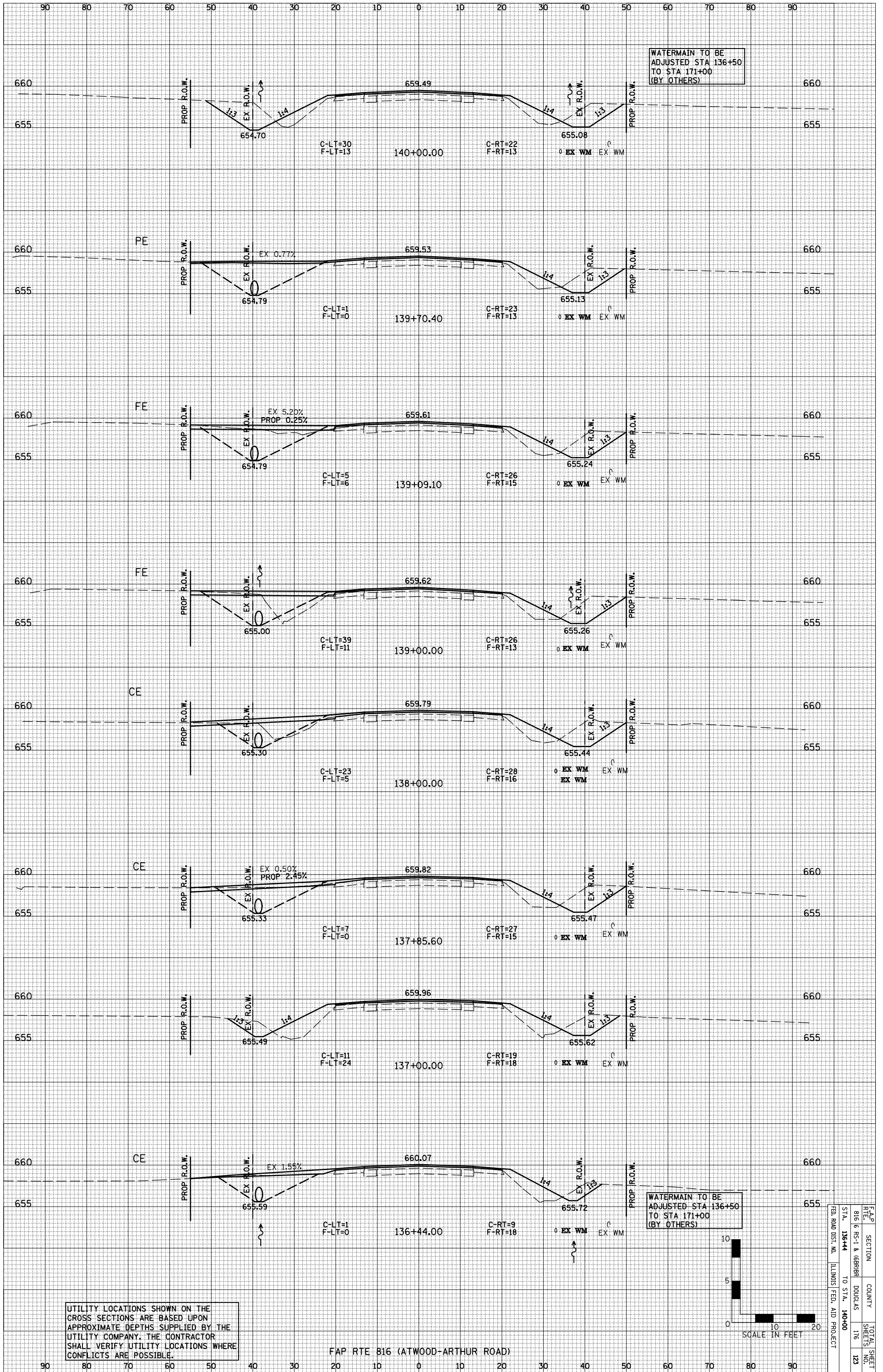


FAP	SECTION	COUNTY	TOTAL SHEET
RTE 816	RS-1 & (688)R	DOUGLAS	176
STA. 131+00	TO STA. 136+00		122
ILLINOIS FED. AID PROJECT			

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
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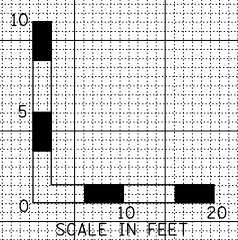
FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS



UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE DEPTHS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS WHERE CONFLICTS ARE POSSIBLE.

FAP RTE 816 (ATWOOD-ARTHUR ROAD)

WATERMAIN TO BE ADJUSTED STA 136+50 TO STA 171+00 (BY OTHERS)

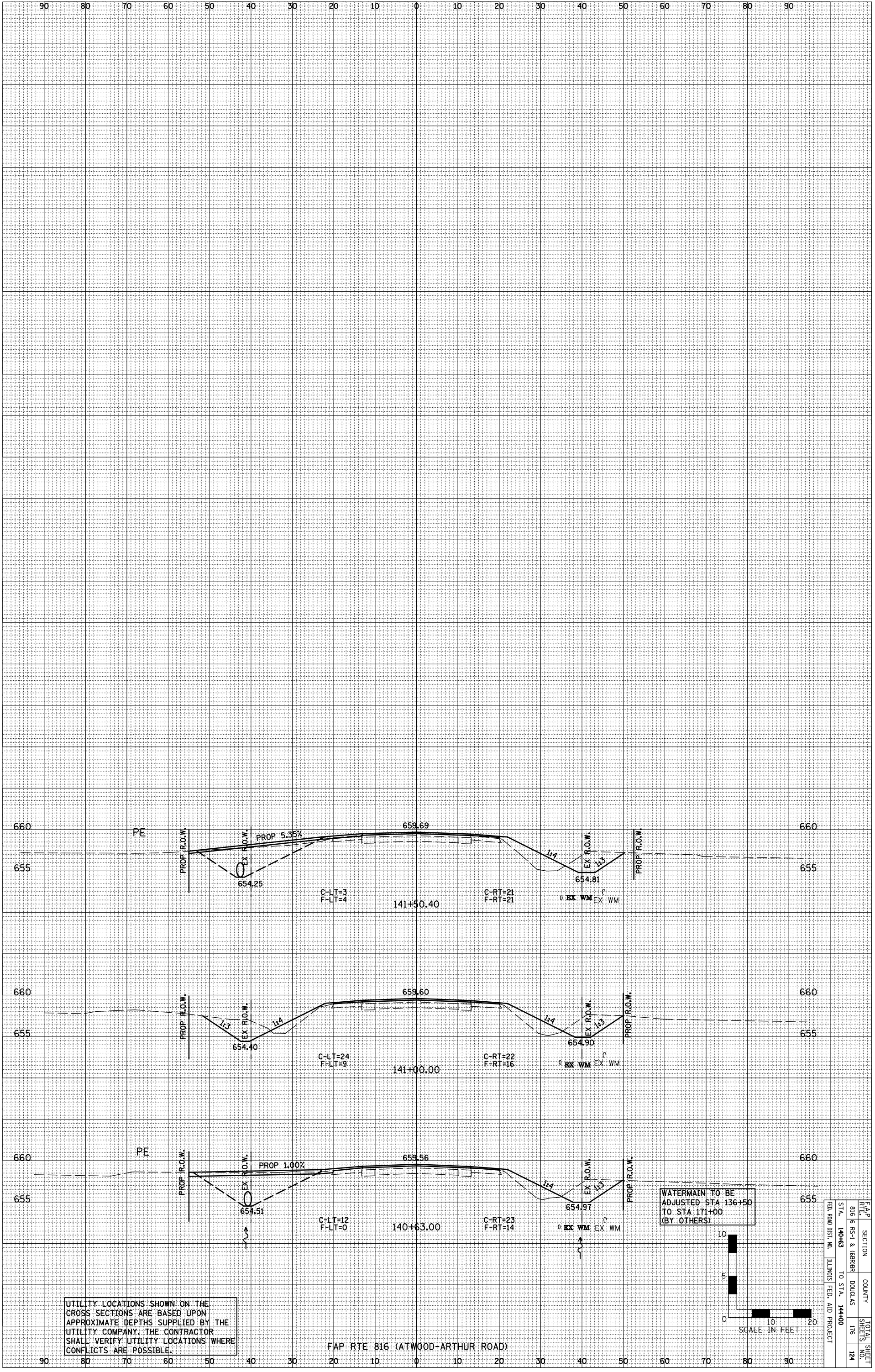


FAP	SECTION	COUNTY	TOTAL SHEET
RTE 816	RS-1 & 680BR	DOUGLAS	NO. 123
STA. 136+44	TO STA. 140+00		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
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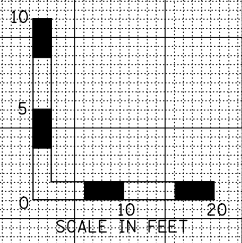
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NOTE BOOK NO.	PLOTTED		
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FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS



UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE DEPTHS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS WHERE CONFLICTS ARE POSSIBLE.

WATERMAIN TO BE ADJUSTED STA 136+50 TO STA 171+00 (BY OTHERS)



FAP RTE 816 (ATWOOD-ARTHUR ROAD)

FAP	SECTION	COUNTY	TOTAL SHEET
RTE 816	RS-1 & (6898)	DOUGLAS	116
STA. 140+63	TO STA. 144+00		124
ILLINOIS FED. AID PROJECT			

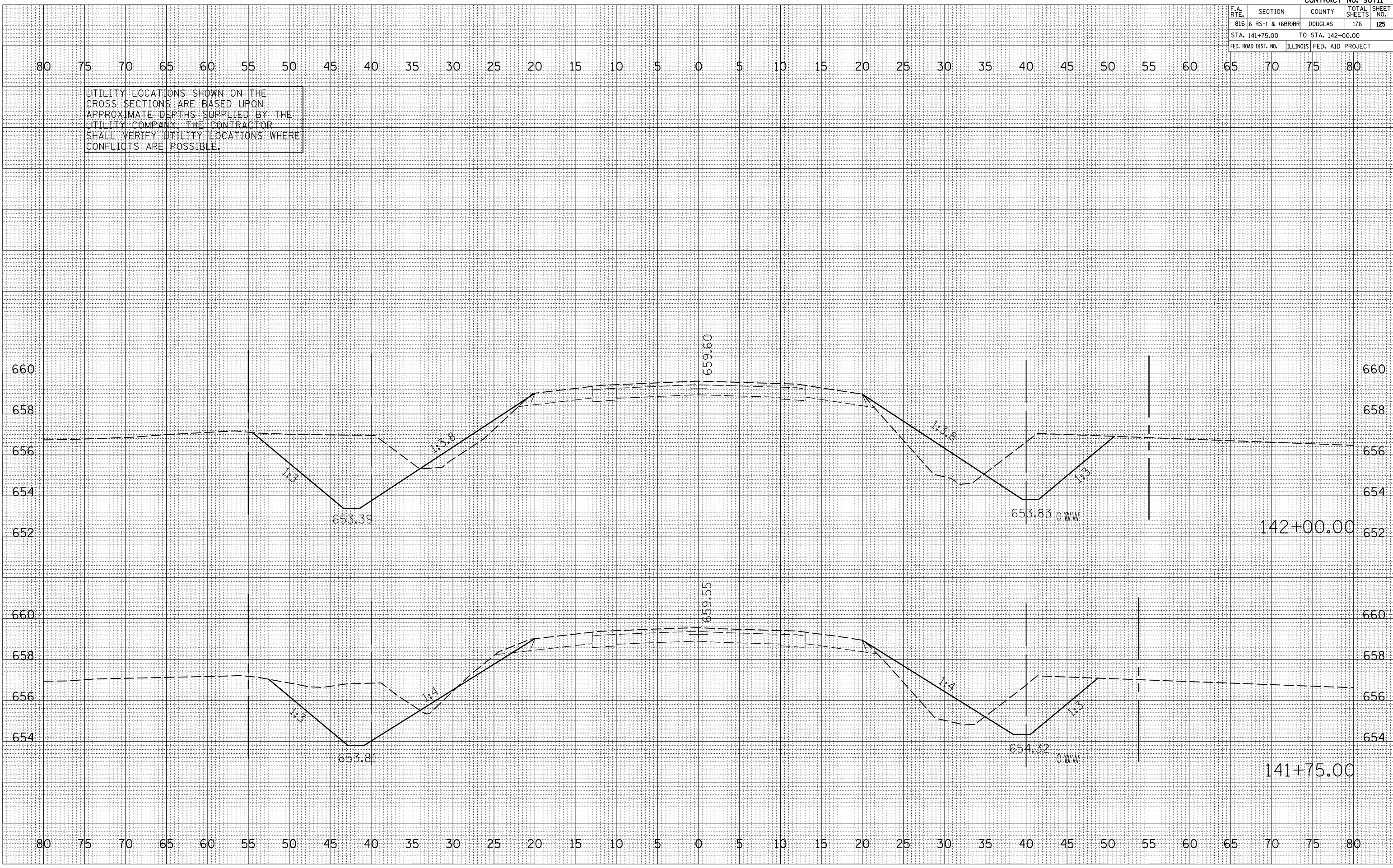
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6 RS-1 & 6BRIBR	DOUGLAS	176	125
STA. 141+75.00		TO STA. 142+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE DEPTHS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS WHERE CONFLICTS ARE POSSIBLE.

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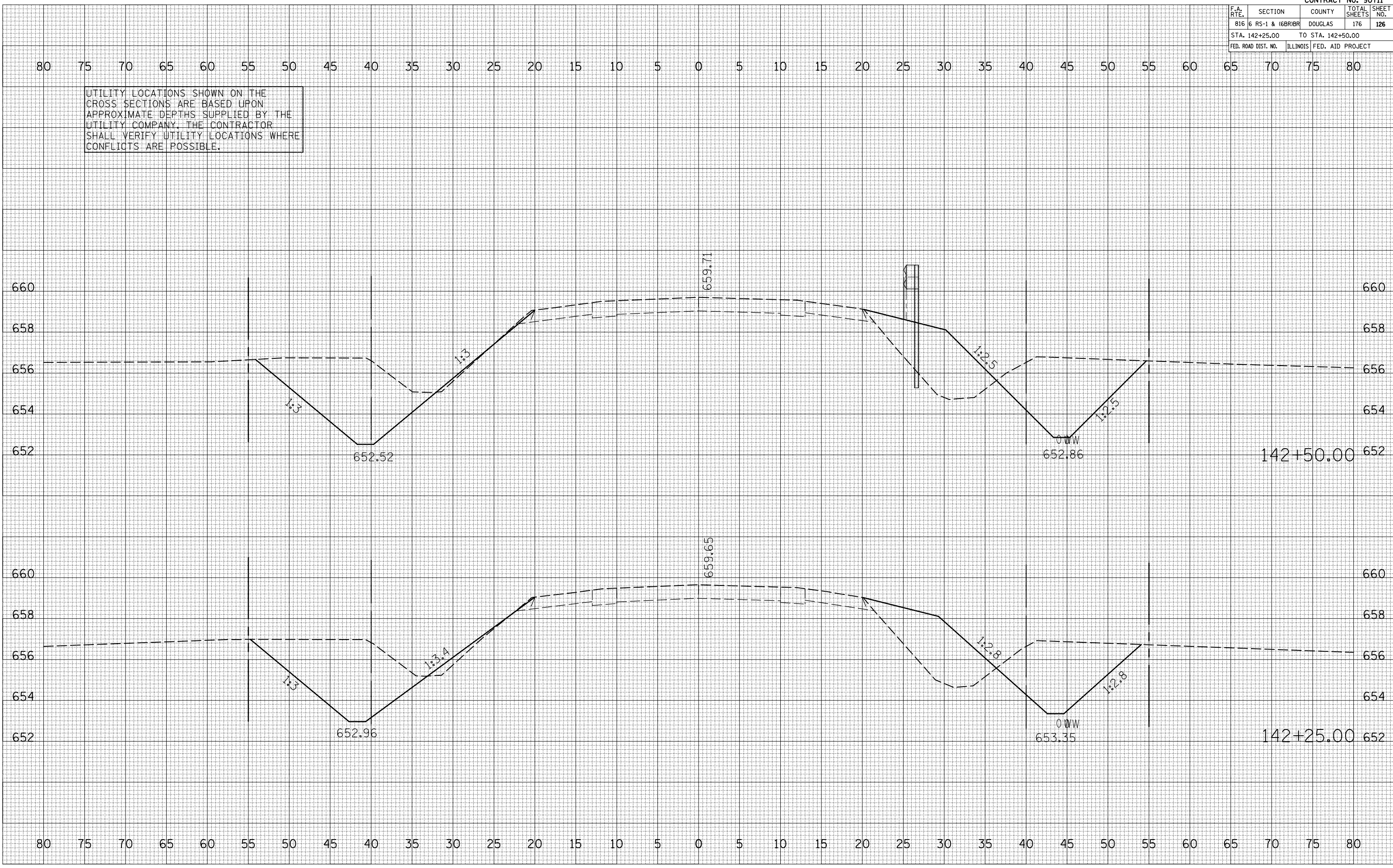
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6 RS-1 & 6BRBR	DOUGLAS	176	126
STA. 142+25.00		TO STA. 142+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE DEPTHS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS WHERE CONFLICTS ARE POSSIBLE.

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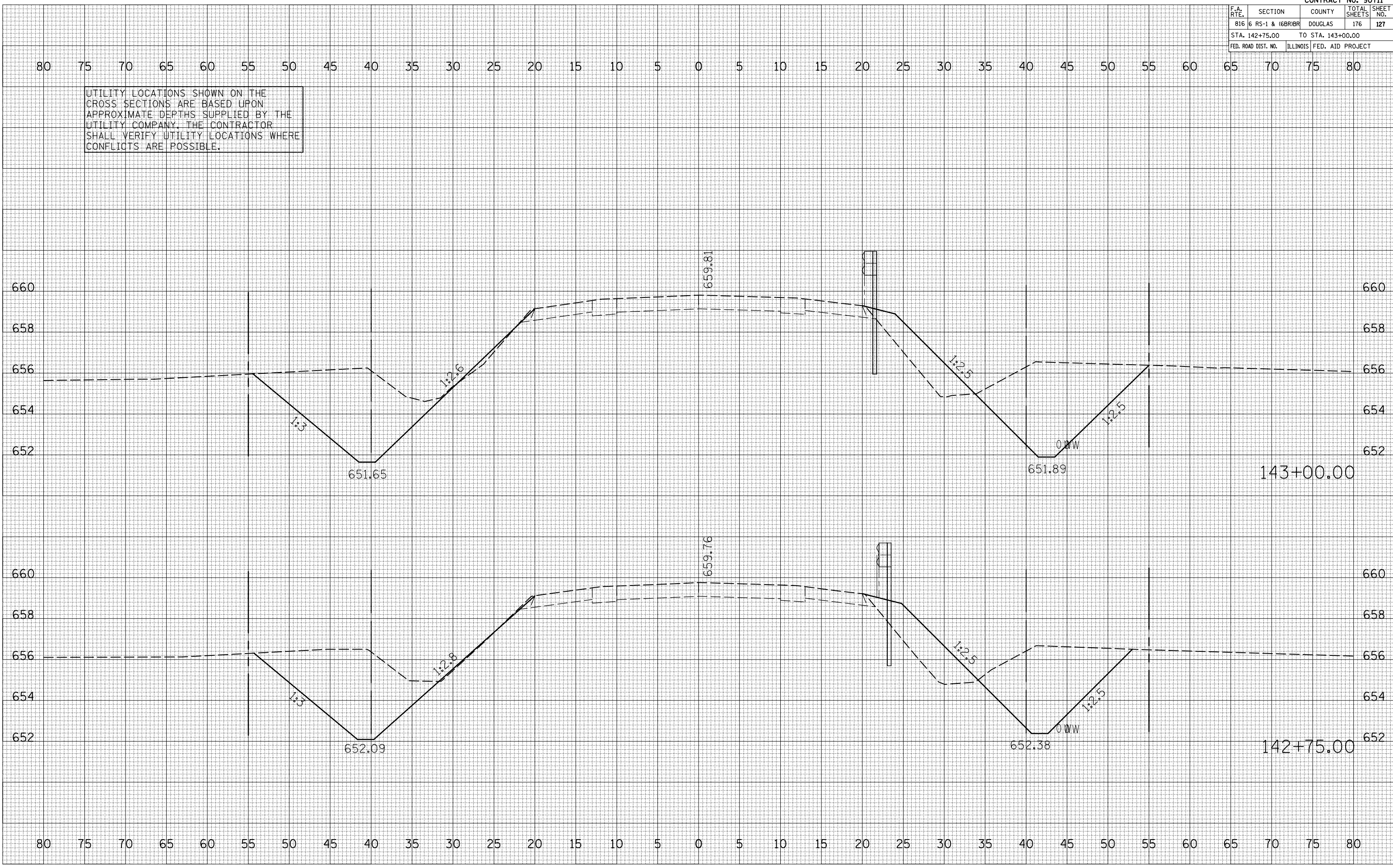
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6 RS-1 & (6)R1BR	DOUGLAS	176	127
STA. 142+75.00 TO STA. 143+00.00				
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE DEPTHS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS WHERE CONFLICTS ARE POSSIBLE.

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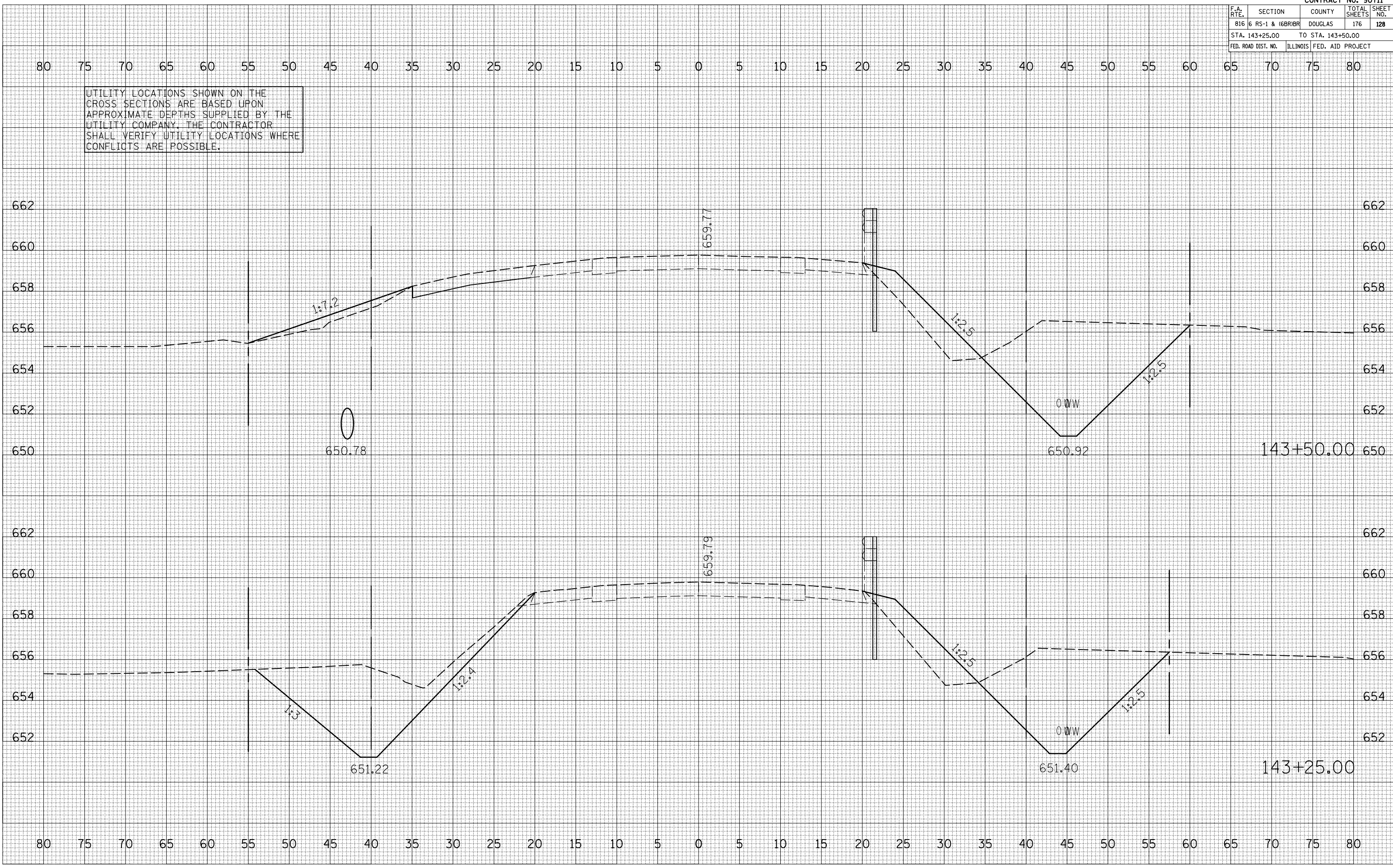
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6 RS-1 & 6BRBR	DOUGLAS	176	128
STA. 143+25.00		TO STA. 143+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE DEPTHS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS WHERE CONFLICTS ARE POSSIBLE.



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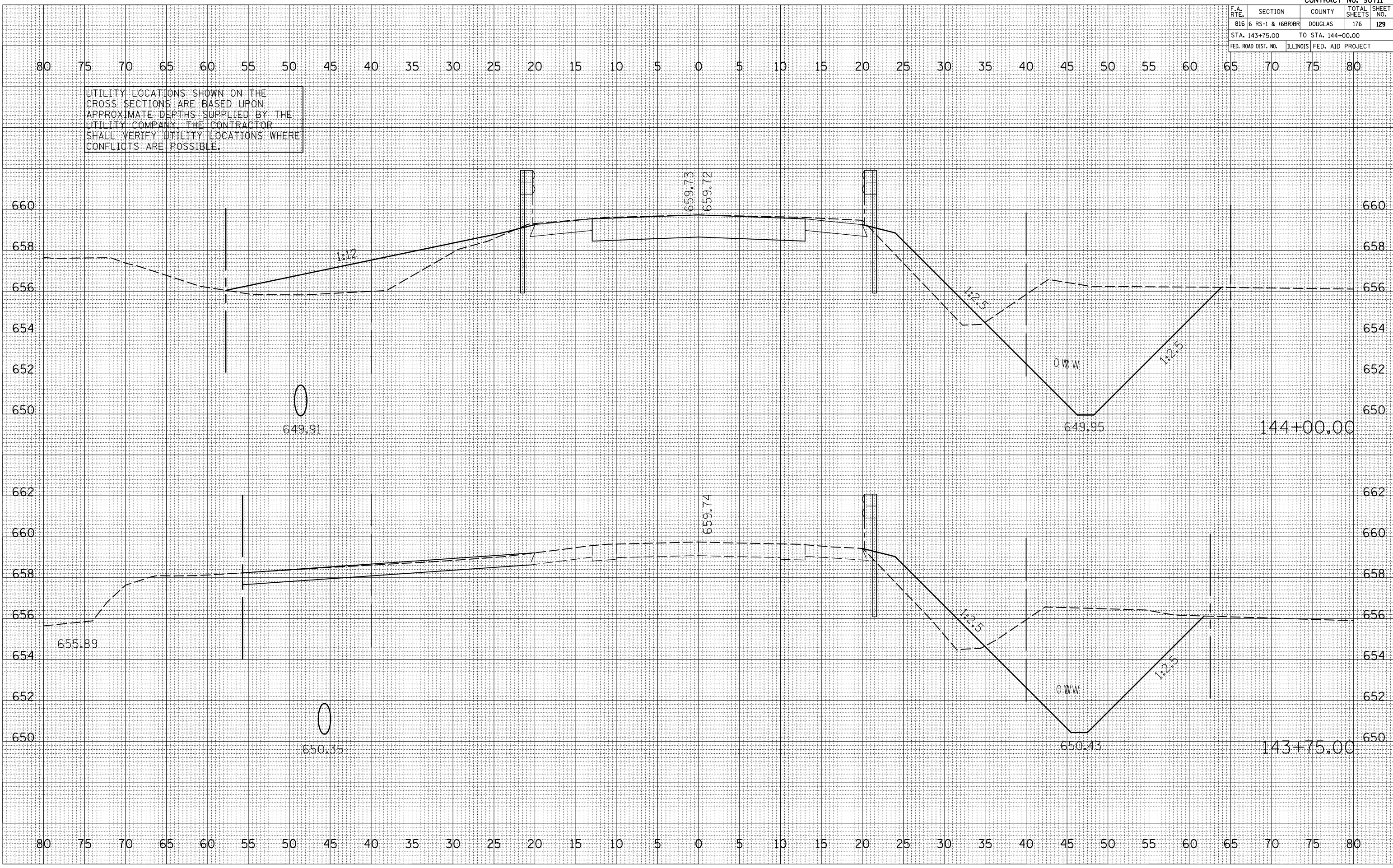
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6 RS-1 & 6BR1BR	DOUGLAS	176	129
STA. 143+75.00		TO STA. 144+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE DEPTHS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS WHERE CONFLICTS ARE POSSIBLE.



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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6 RS-1 & 6BRBR	DOUGLAS	176	130
STA. 144+12.50		TO STA. 144+12.50		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE DEPTHS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS WHERE CONFLICTS ARE POSSIBLE.

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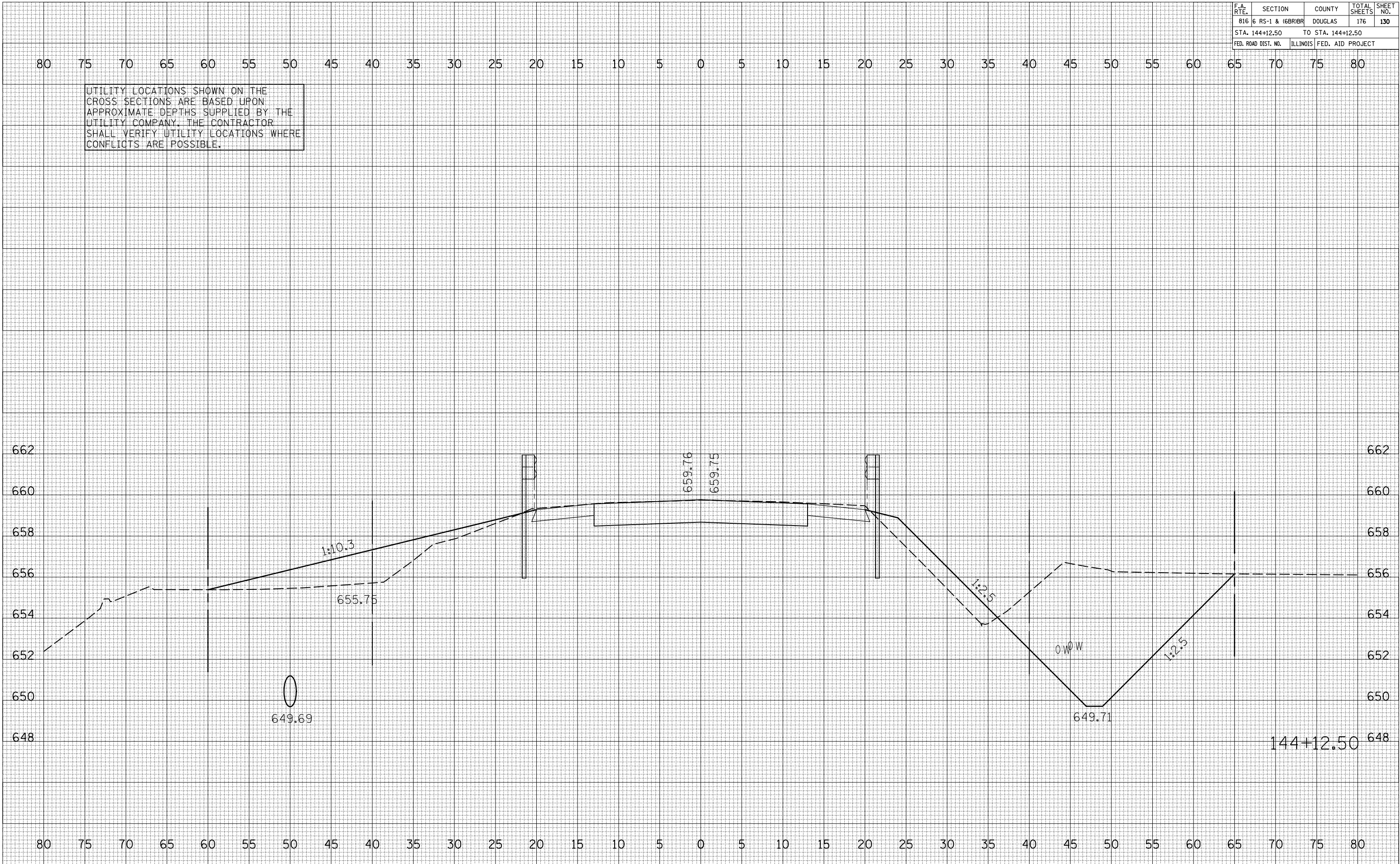
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144+12.50

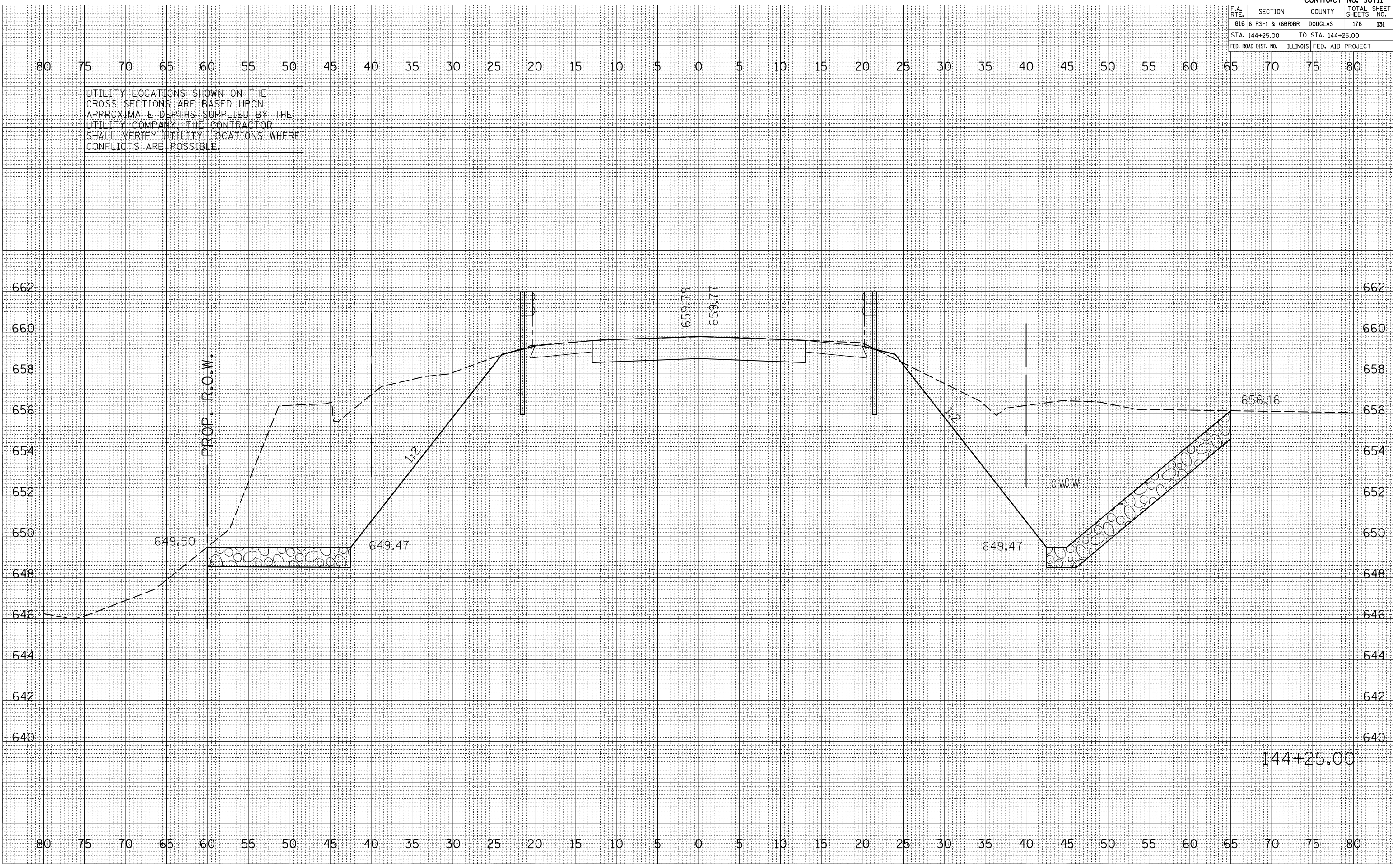
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6 RS-1 & 6BR/BR	DOUGLAS	176	131
STA. 144+25.00		TO STA. 144+25.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE DEPTHS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS WHERE CONFLICTS ARE POSSIBLE.

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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6 RS-1 & 6BR1BR	DOUGLAS	176	132
STA. 144+37.50 TO STA. 144+37.50				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE DEPTHS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS WHERE CONFLICTS ARE POSSIBLE.

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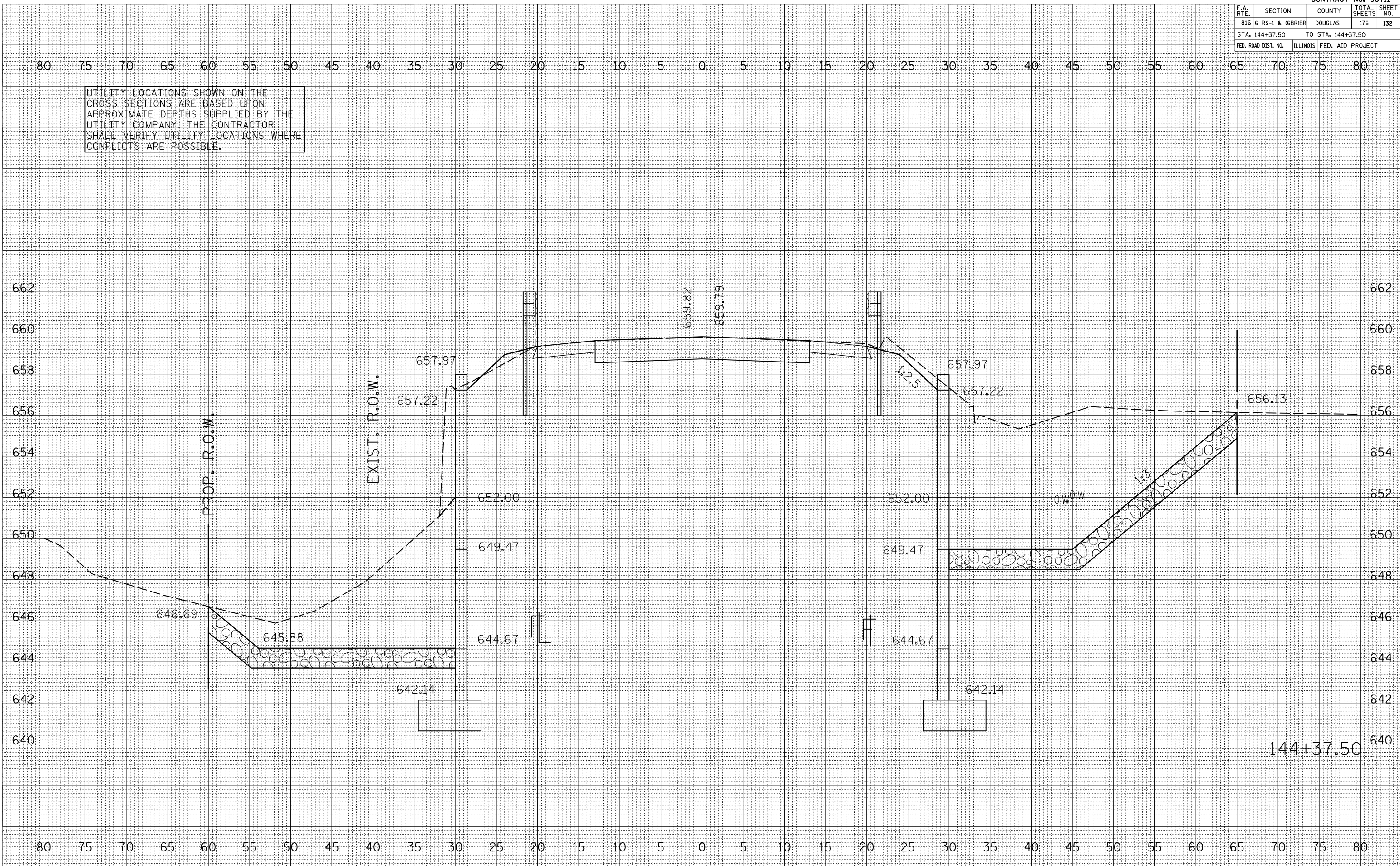
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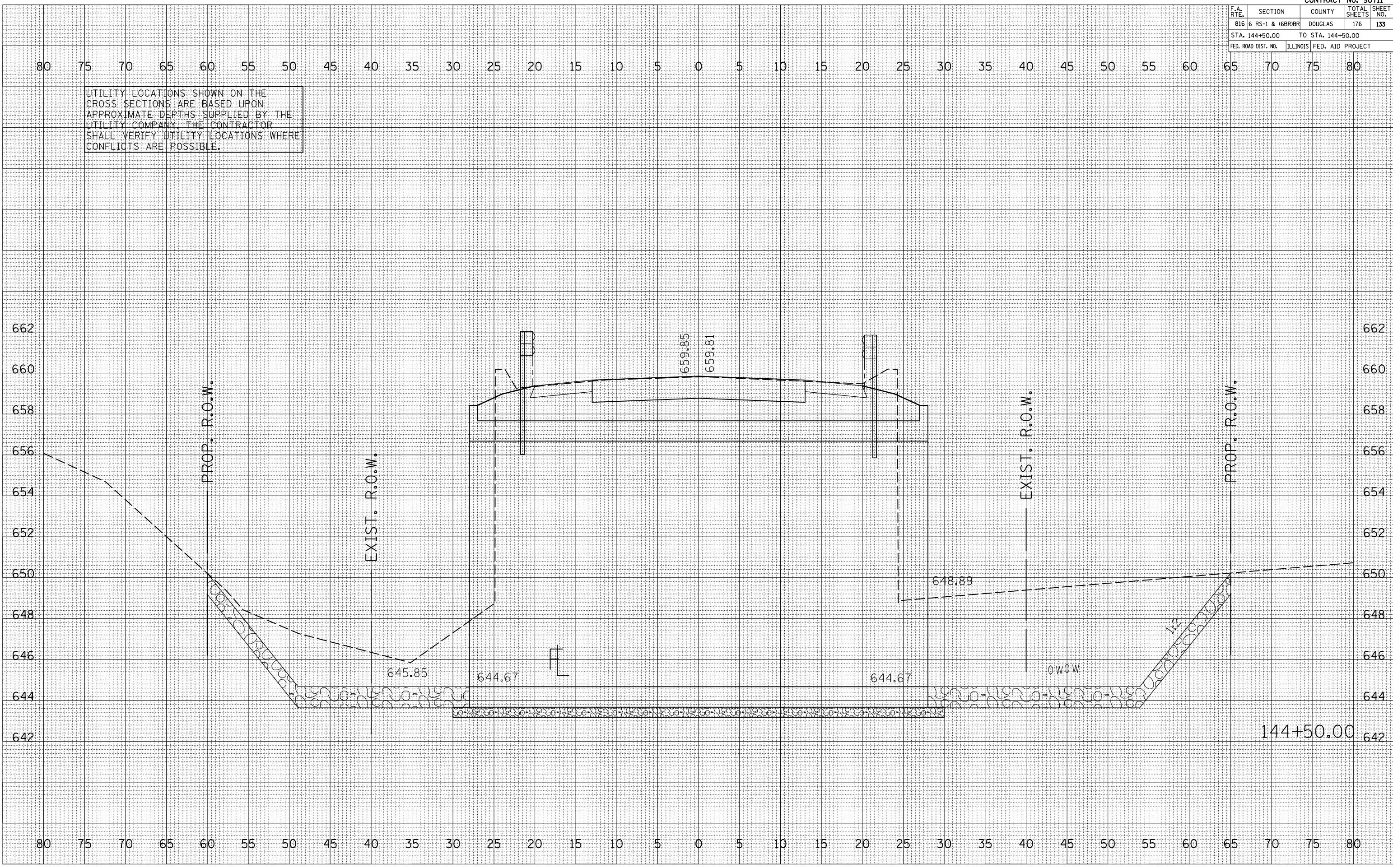
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6 RS-1 & 6BRBR	DOUGLAS	176	133
STA. 144+50.00		TO STA. 144+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE DEPTHS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS WHERE CONFLICTS ARE POSSIBLE.

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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816 6	RS-1 & 6BR/BR	DOUGLAS	176	134
STA. 144+61.00		TO STA. 144+61.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE DEPTHS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS WHERE CONFLICTS ARE POSSIBLE.

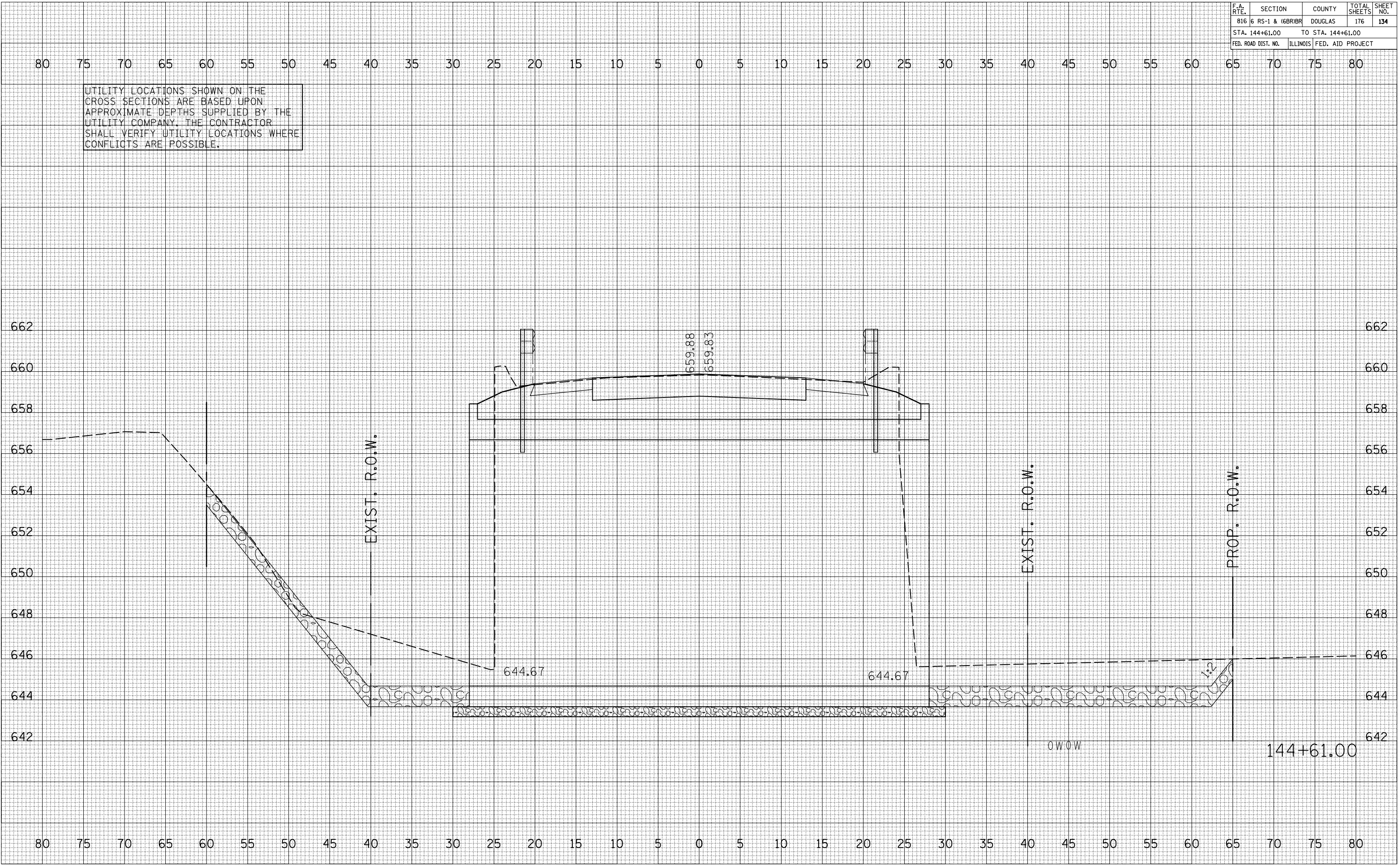
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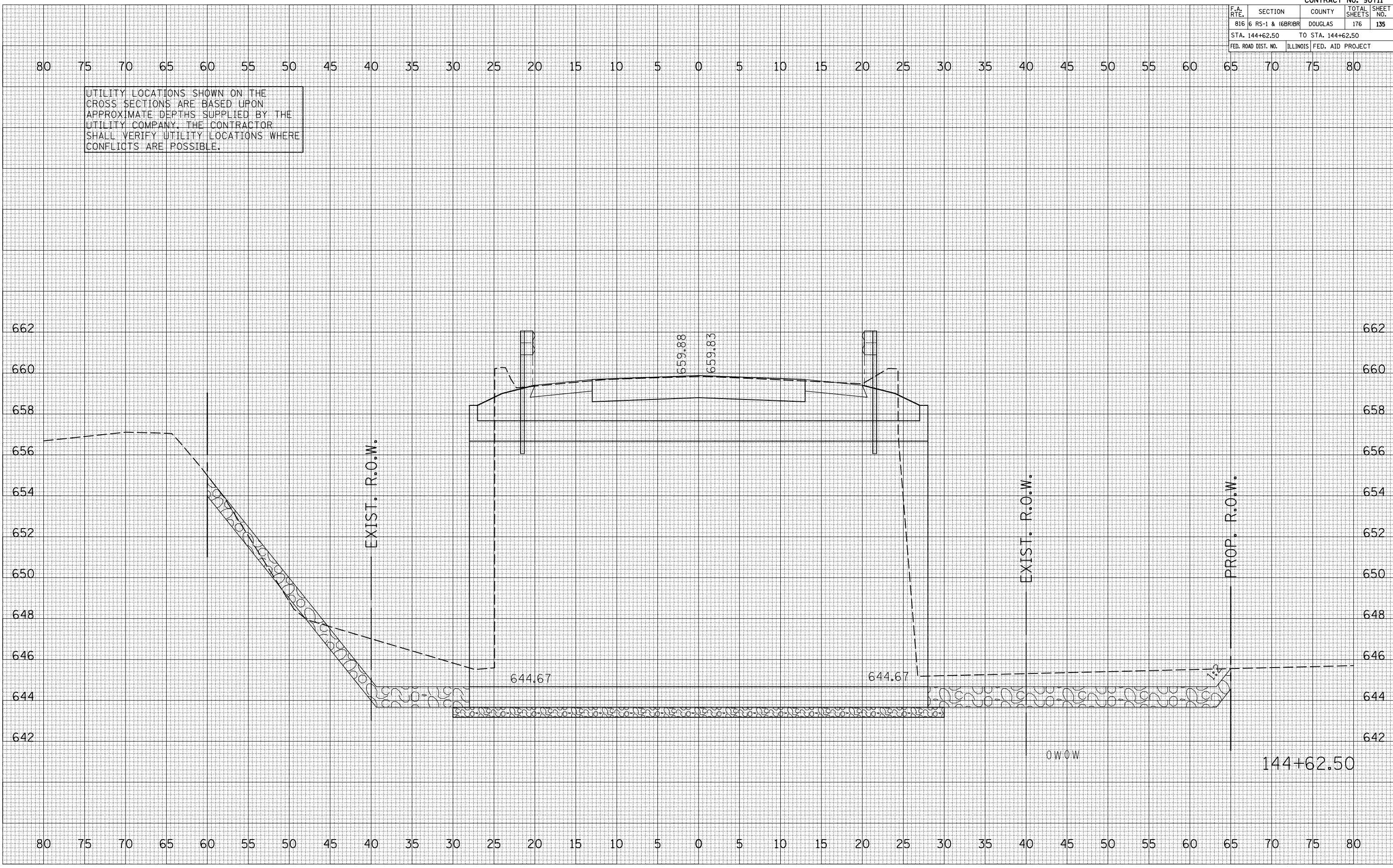
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6 RS-1 & 6BRBR	DOUGLAS	176	135
STA. 144+62.50		TO STA. 144+62.50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE DEPTHS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS WHERE CONFLICTS ARE POSSIBLE.

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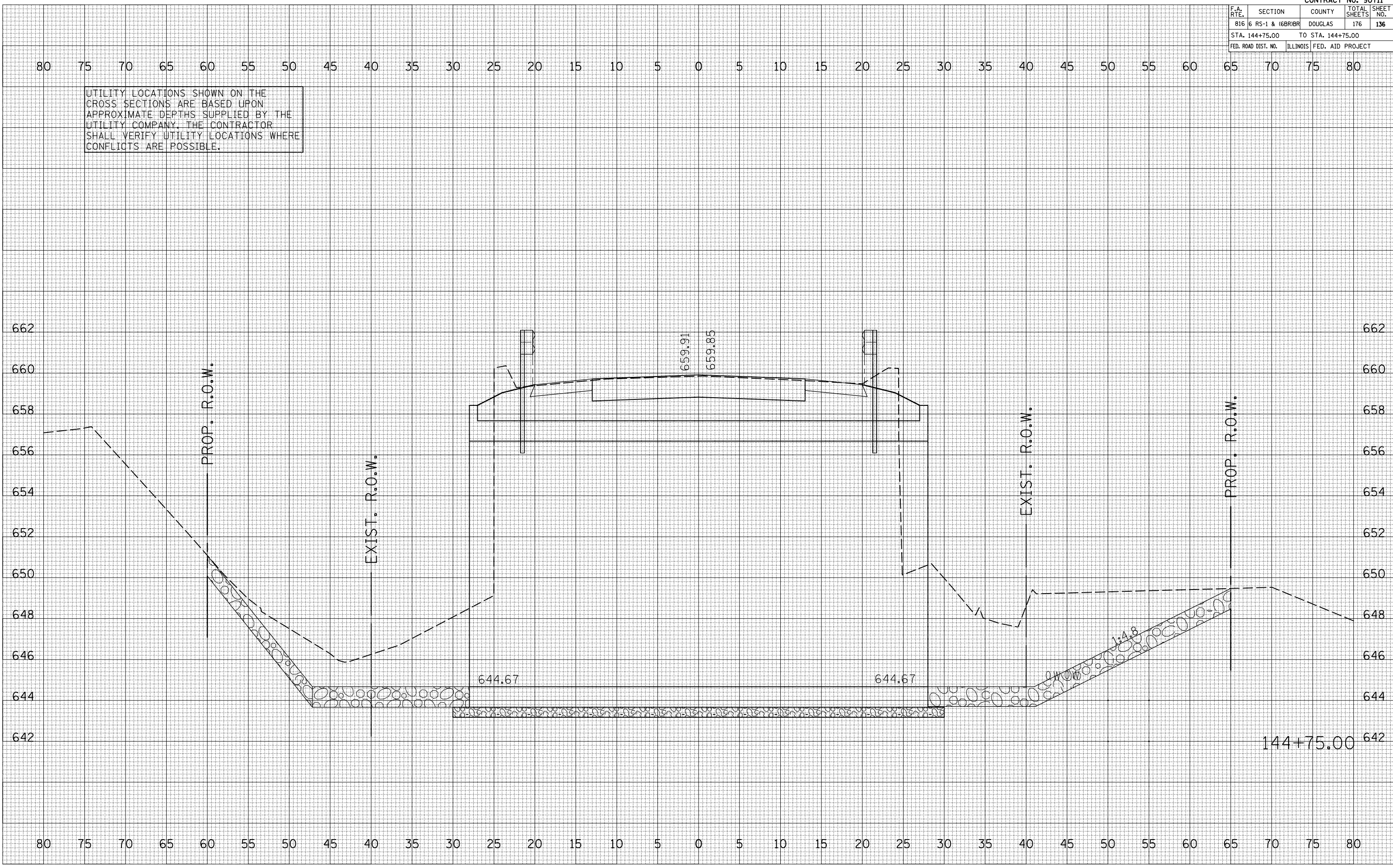
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6 RS-1 & 6BRBR	DOUGLAS	176	136
STA. 144+75.00		TO STA. 144+75.00		
FED. ROAD DIST. NO.	ILLINOIS		FED. AID PROJECT	

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE DEPTHS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS WHERE CONFLICTS ARE POSSIBLE.

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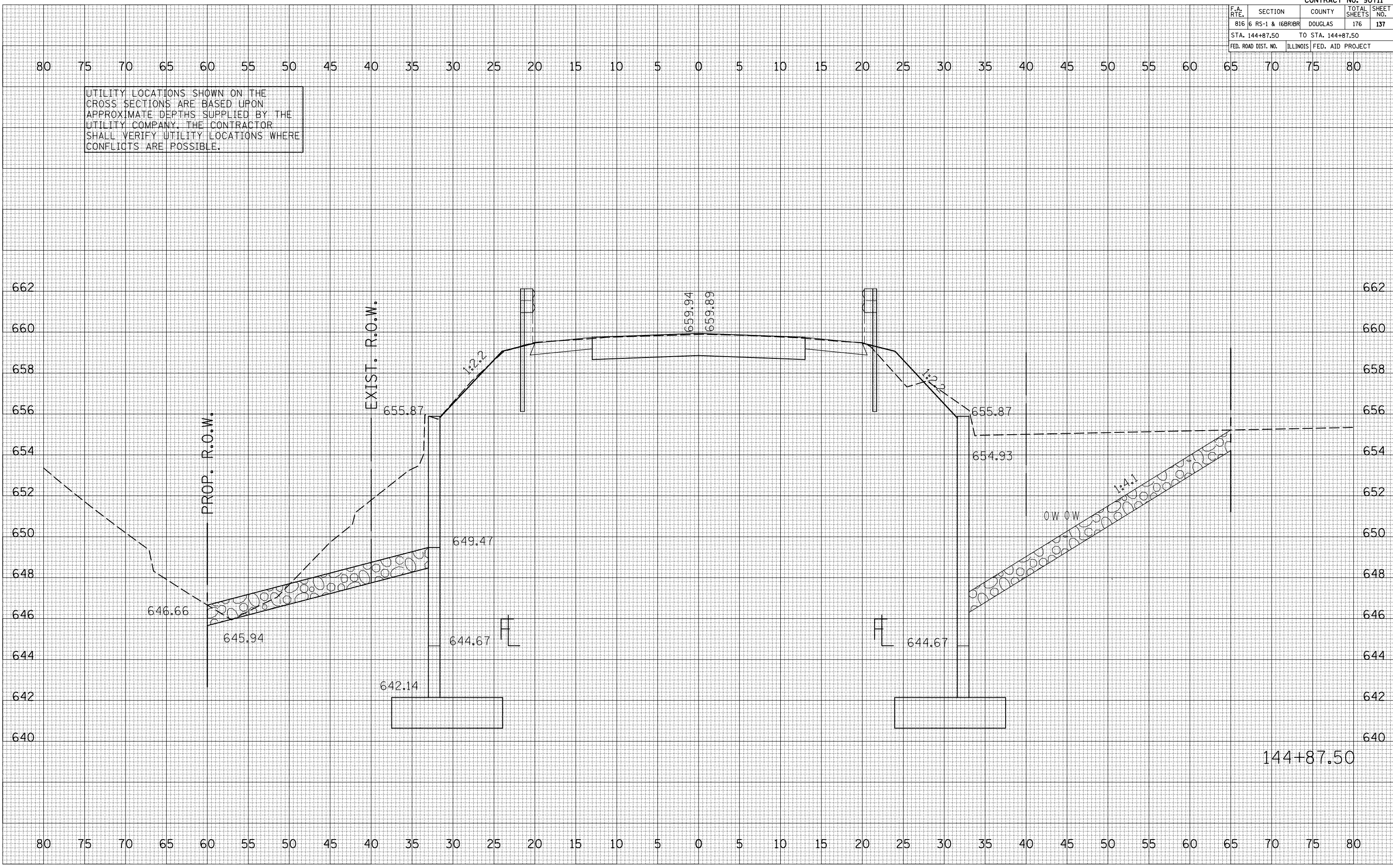
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816 6	RS-1 & 6BR/BR	DOUGLAS	176	137
STA. 144+87.50		TO STA. 144+87.50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE DEPTHS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS WHERE CONFLICTS ARE POSSIBLE.

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144+87.50

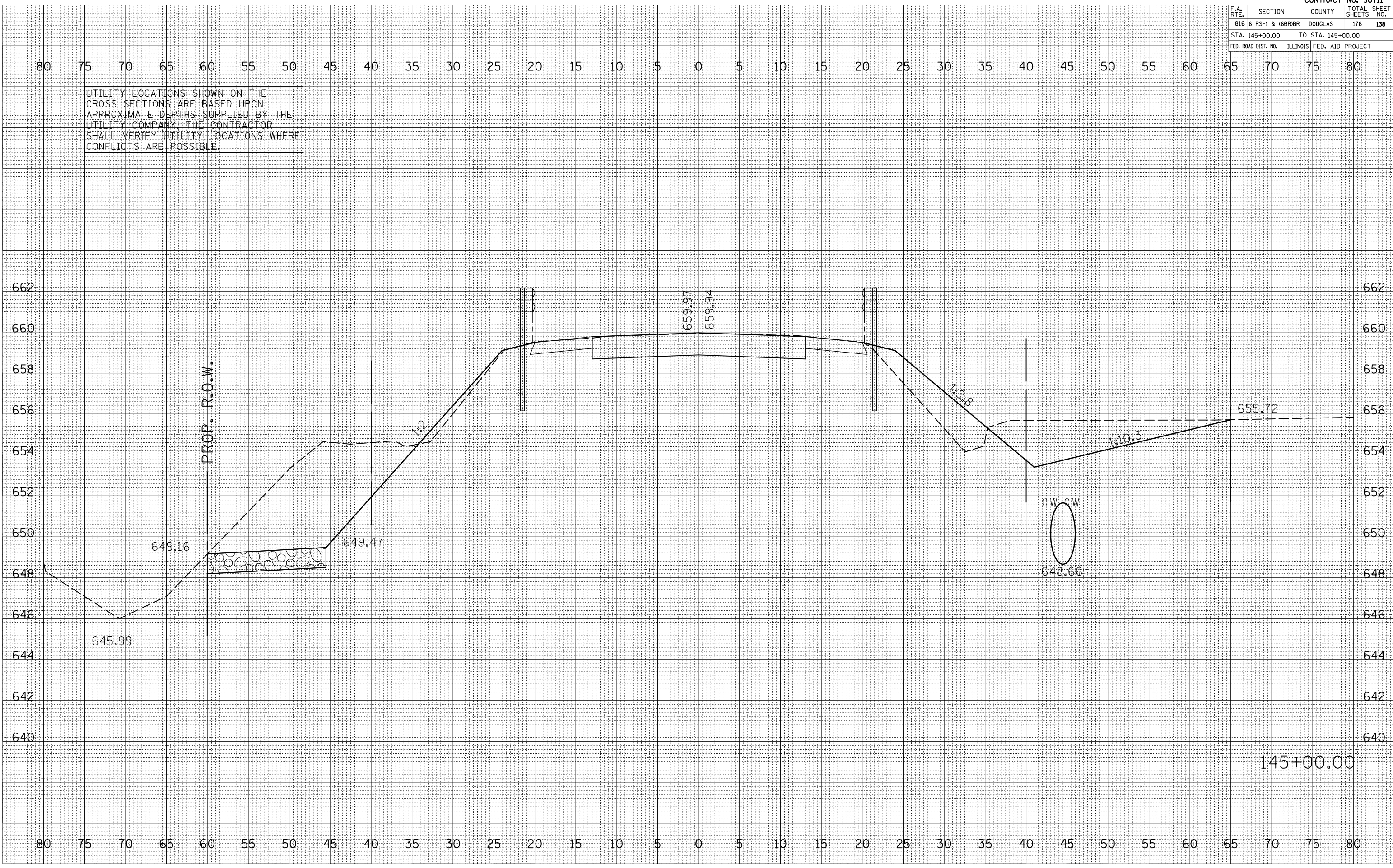
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6 RS-1 & 6BR1BR	DOUGLAS	176	138
STA. 145+00.00 TO STA. 145+00.00				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE DEPTHS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS WHERE CONFLICTS ARE POSSIBLE.

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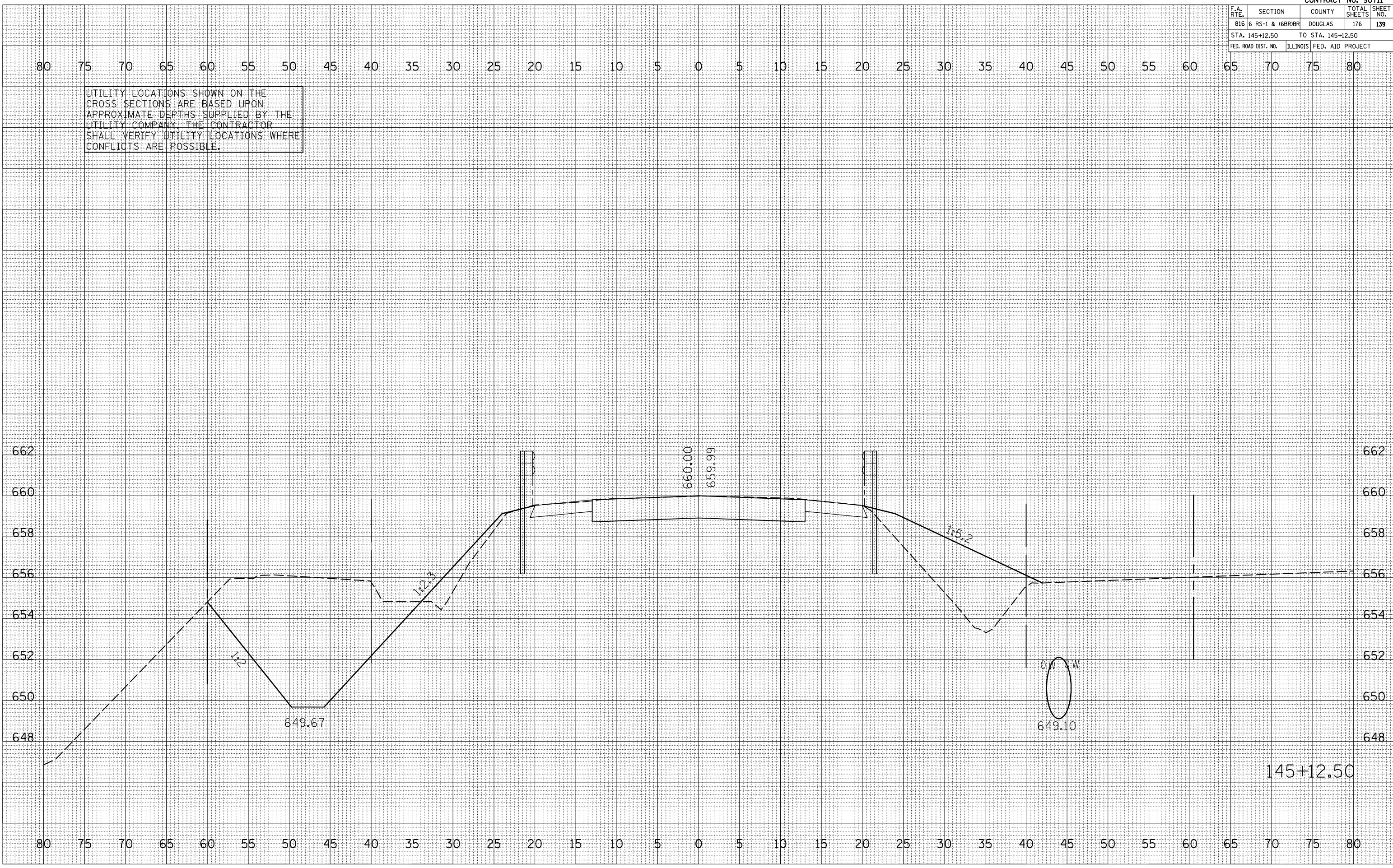
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816 6	RS-1 & 6BRBR	DOUGLAS	176	139
STA. 145+12.50		TO STA. 145+12.50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE DEPTHS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS WHERE CONFLICTS ARE POSSIBLE.

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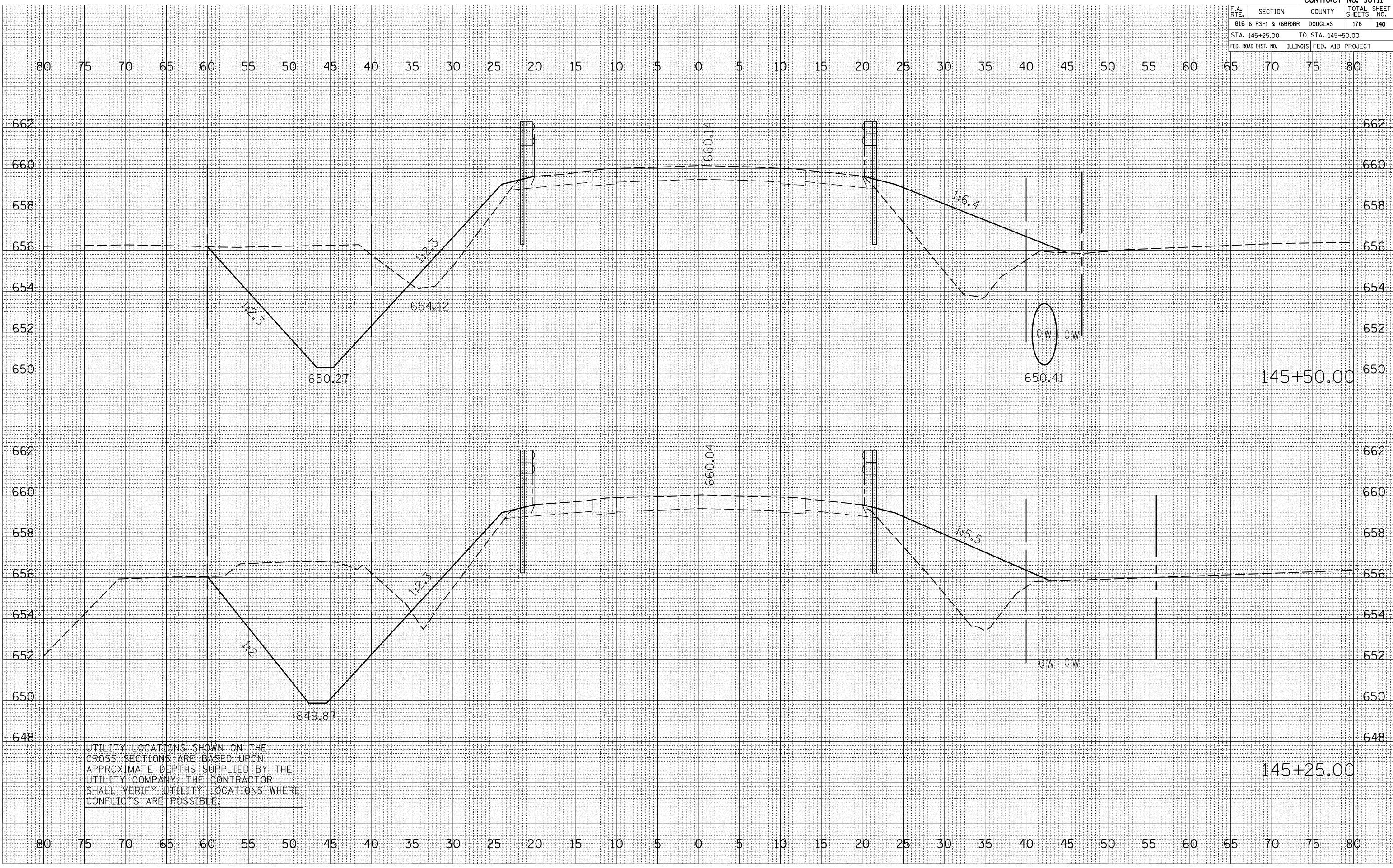


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6 RS-1 & 6BR1BR	DOUGLAS	176	140
STA. 145+25.00		TO STA. 145+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE DEPTHS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS WHERE CONFLICTS ARE POSSIBLE.

145+50.00

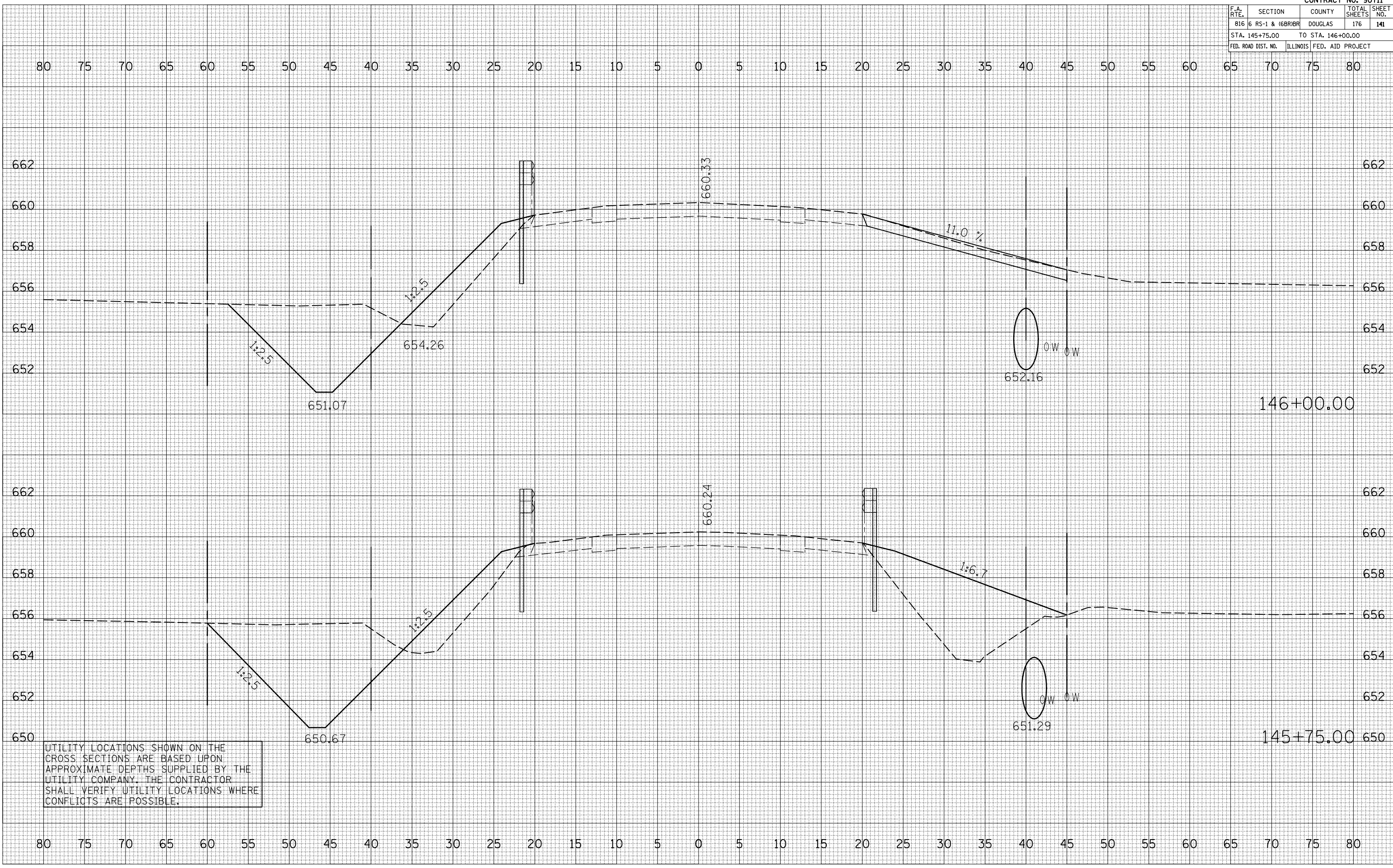
145+25.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6 RS-1 & 6BR/BR	DOUGLAS	176	141
STA. 145+75.00		TO STA. 146+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE DEPTHS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS WHERE CONFLICTS ARE POSSIBLE.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6 RS-1 & 6BRIBR	DOUGLAS	176	142
STA. 146+25.00		TO STA. 146+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE DEPTHS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS WHERE CONFLICTS ARE POSSIBLE.

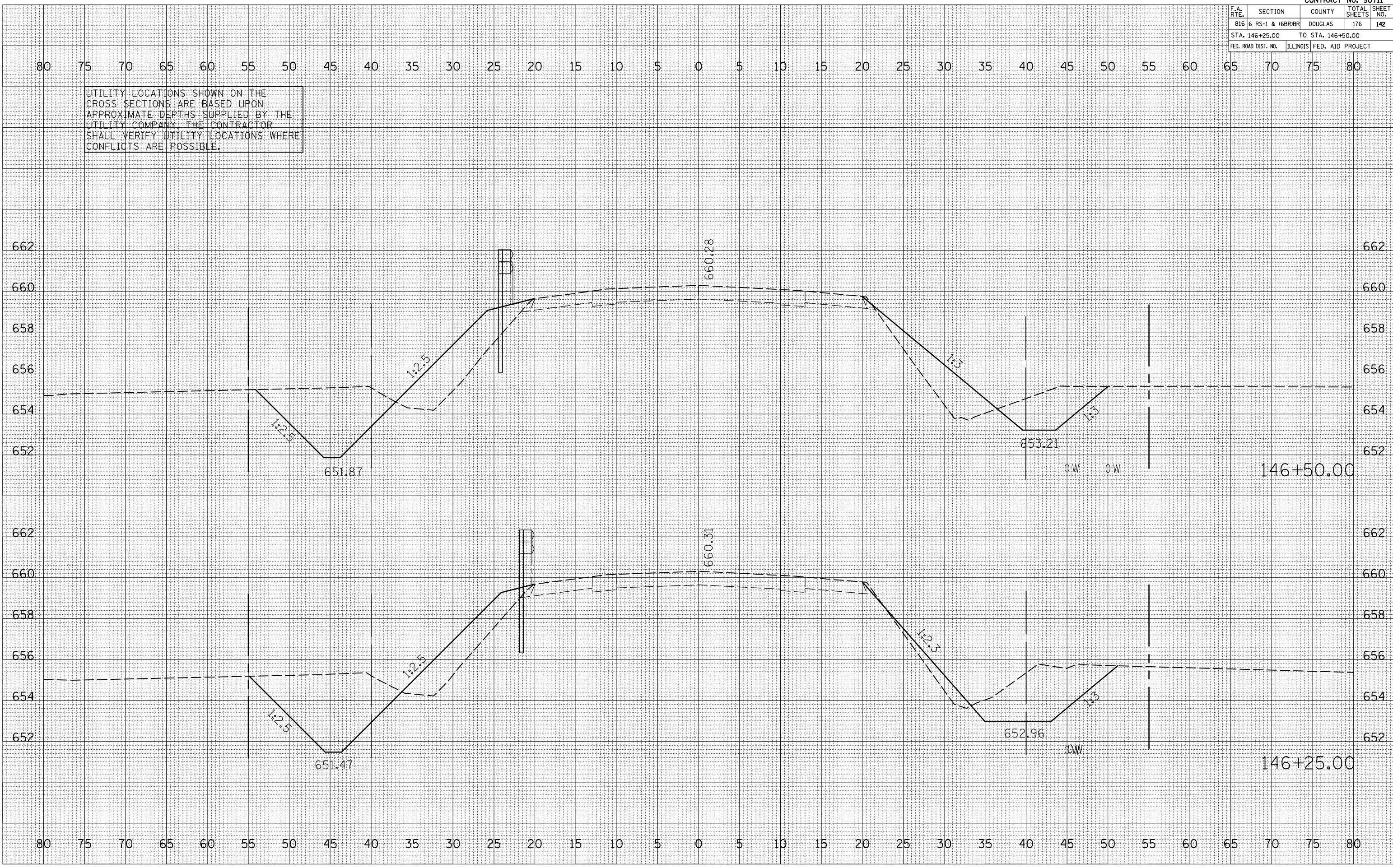
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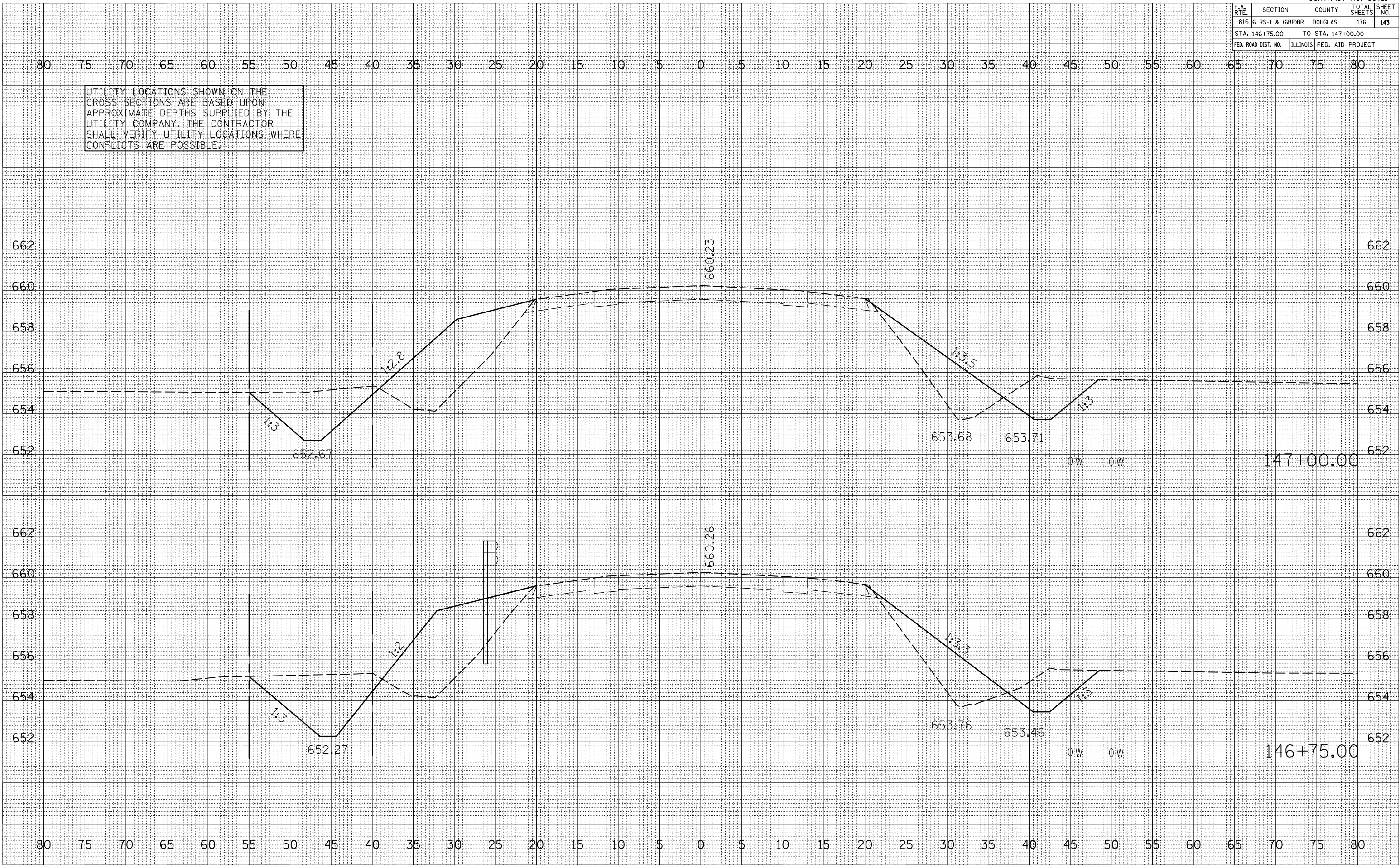
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816	6 RS-1 & 6BRBR	DOUGLAS	176	143
STA. 146+75.00		TO STA. 147+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE DEPTHS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS WHERE CONFLICTS ARE POSSIBLE.

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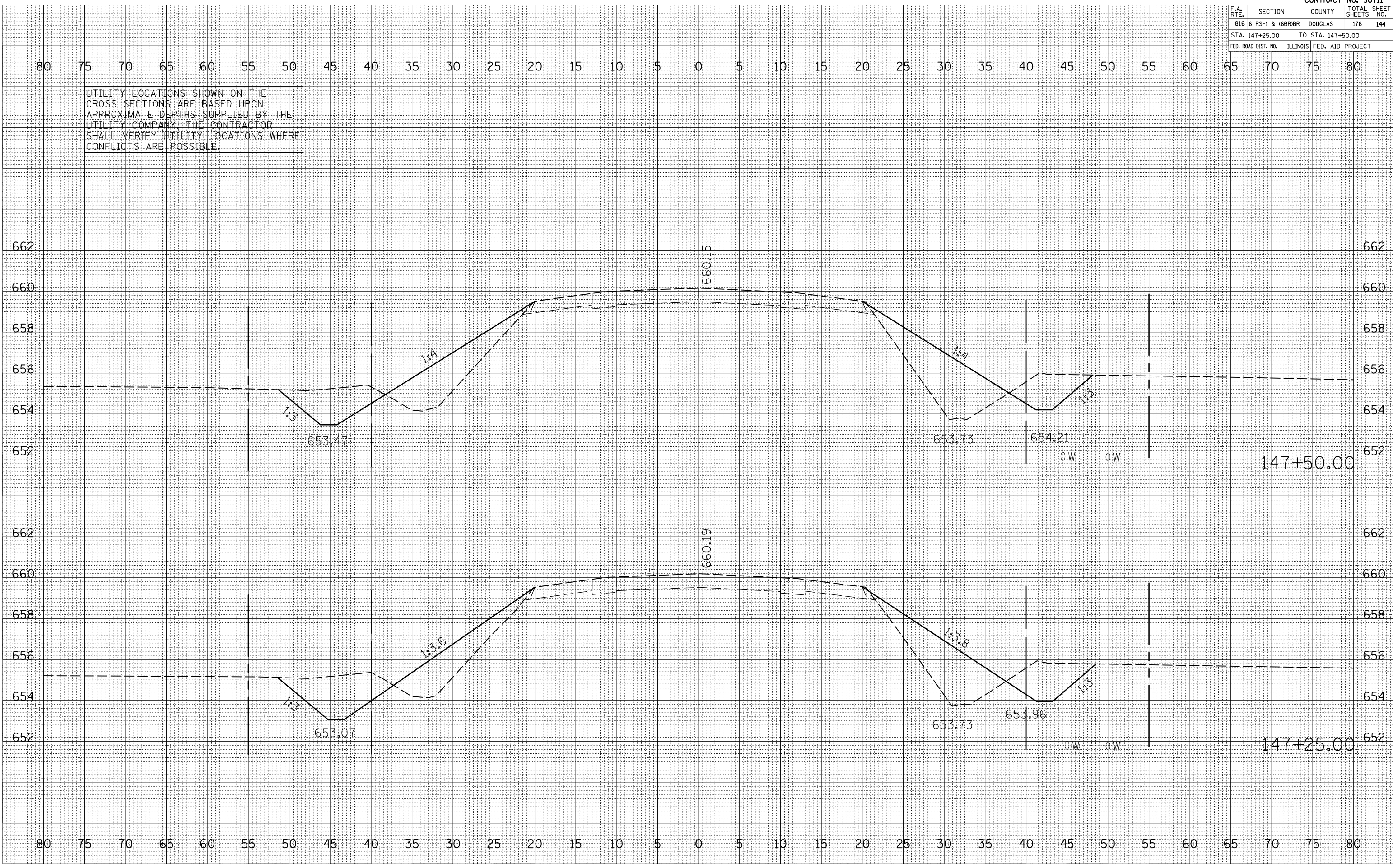
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6 RS-1 & 6BRIBR	DOUGLAS	176	144
STA. 147+25.00		TO STA. 147+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE DEPTHS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS WHERE CONFLICTS ARE POSSIBLE.

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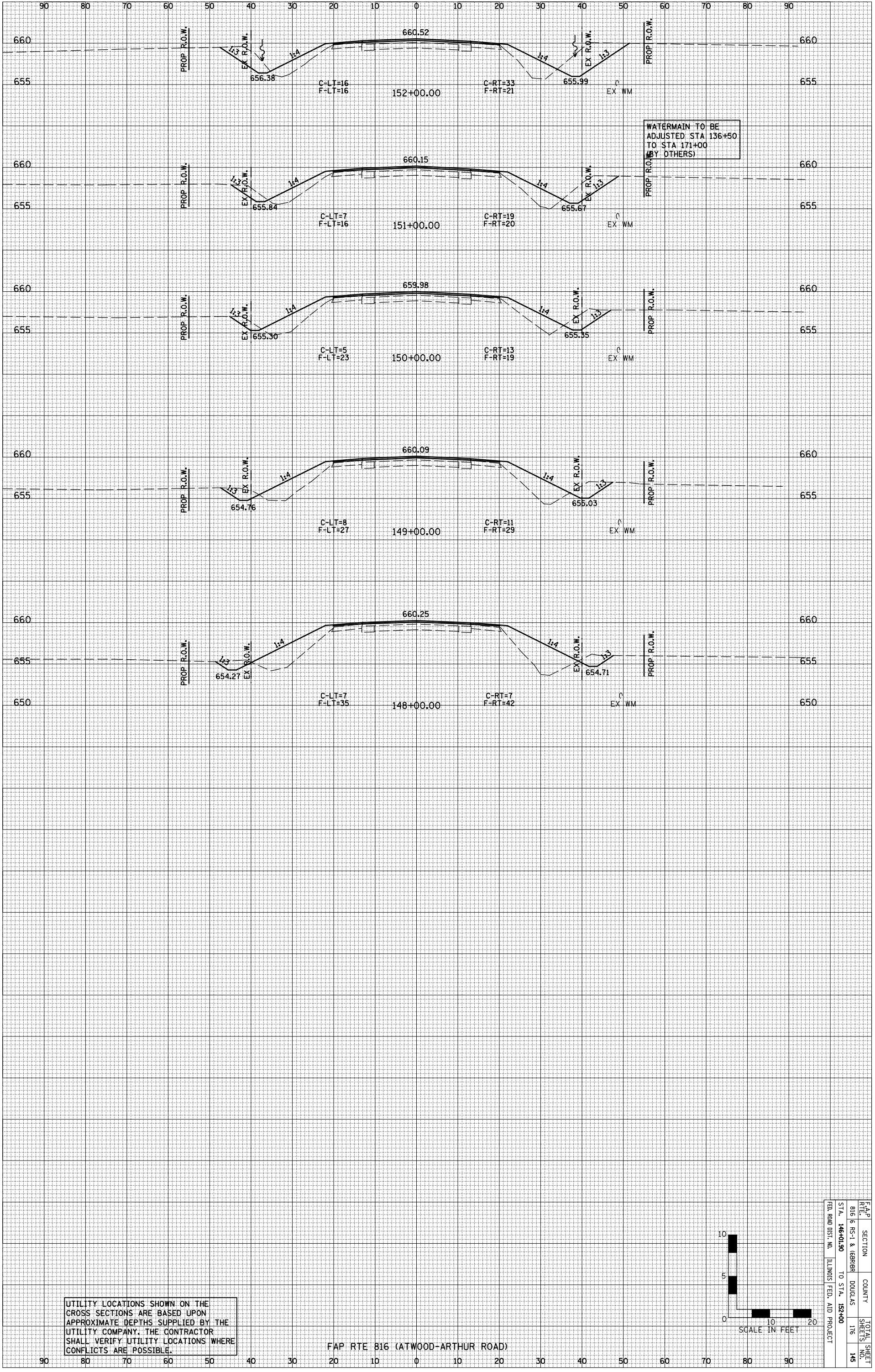
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NOTE BOOK	PLOTTED		
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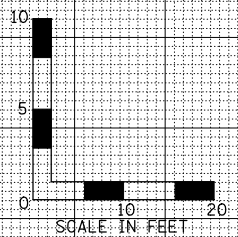
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NOTE BOOK	PLOTTED		
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	AREAS		
	CHECKED		

FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS



UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE DEPTHS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS WHERE CONFLICTS ARE POSSIBLE.

FAP RTE 816 (ATWOOD-ARTHUR ROAD)

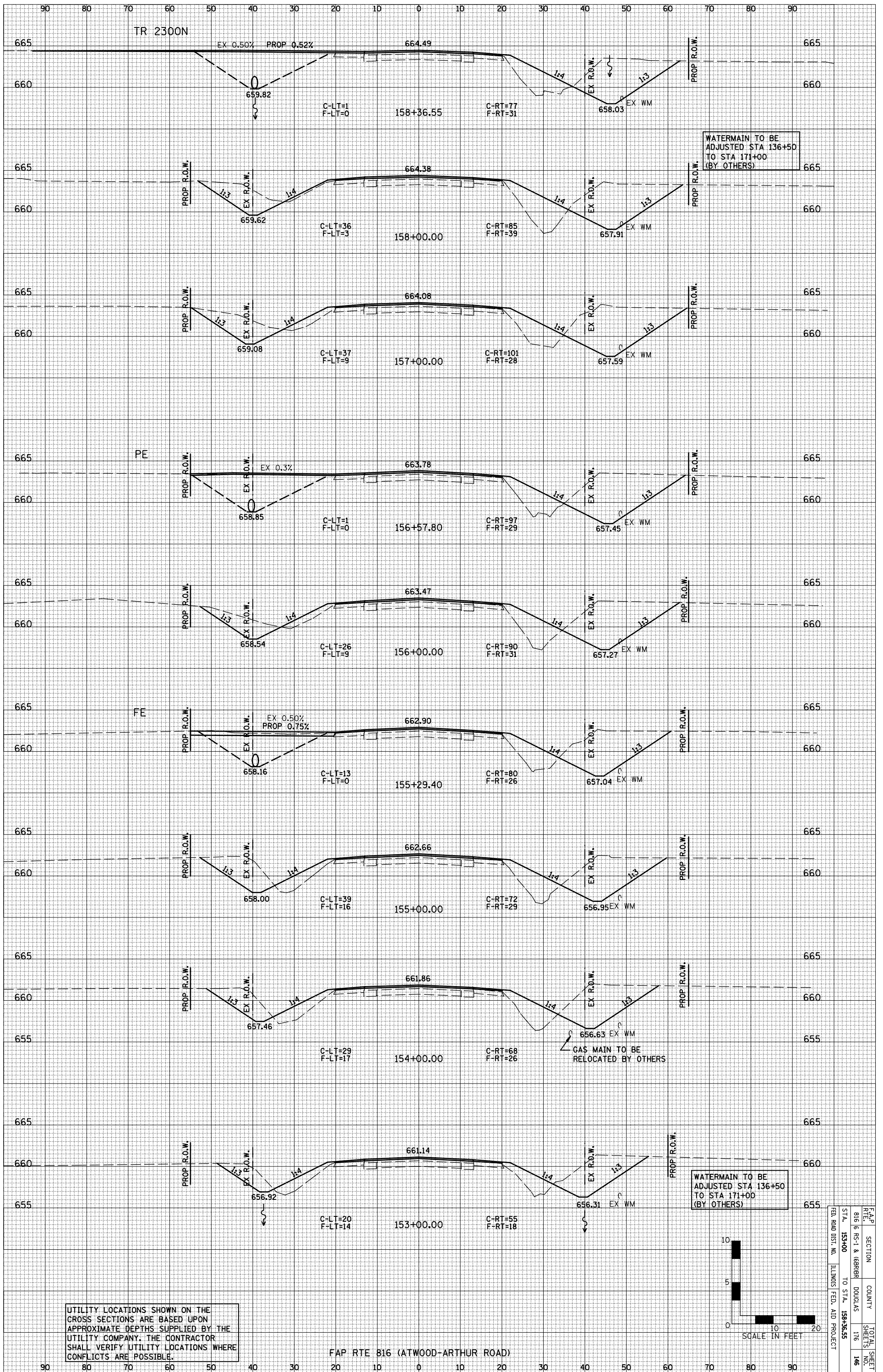


FAP	SECTION	COUNTY	TOTAL SHEET
RTE. 816	RS-1 & 1698R	DOUGLAS	116
STA. 146+01.90	TO STA. 152+00		145
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

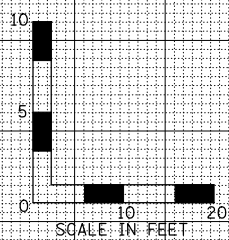
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS



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FAP RTE 816 (ATWOOD-ARTHUR ROAD)

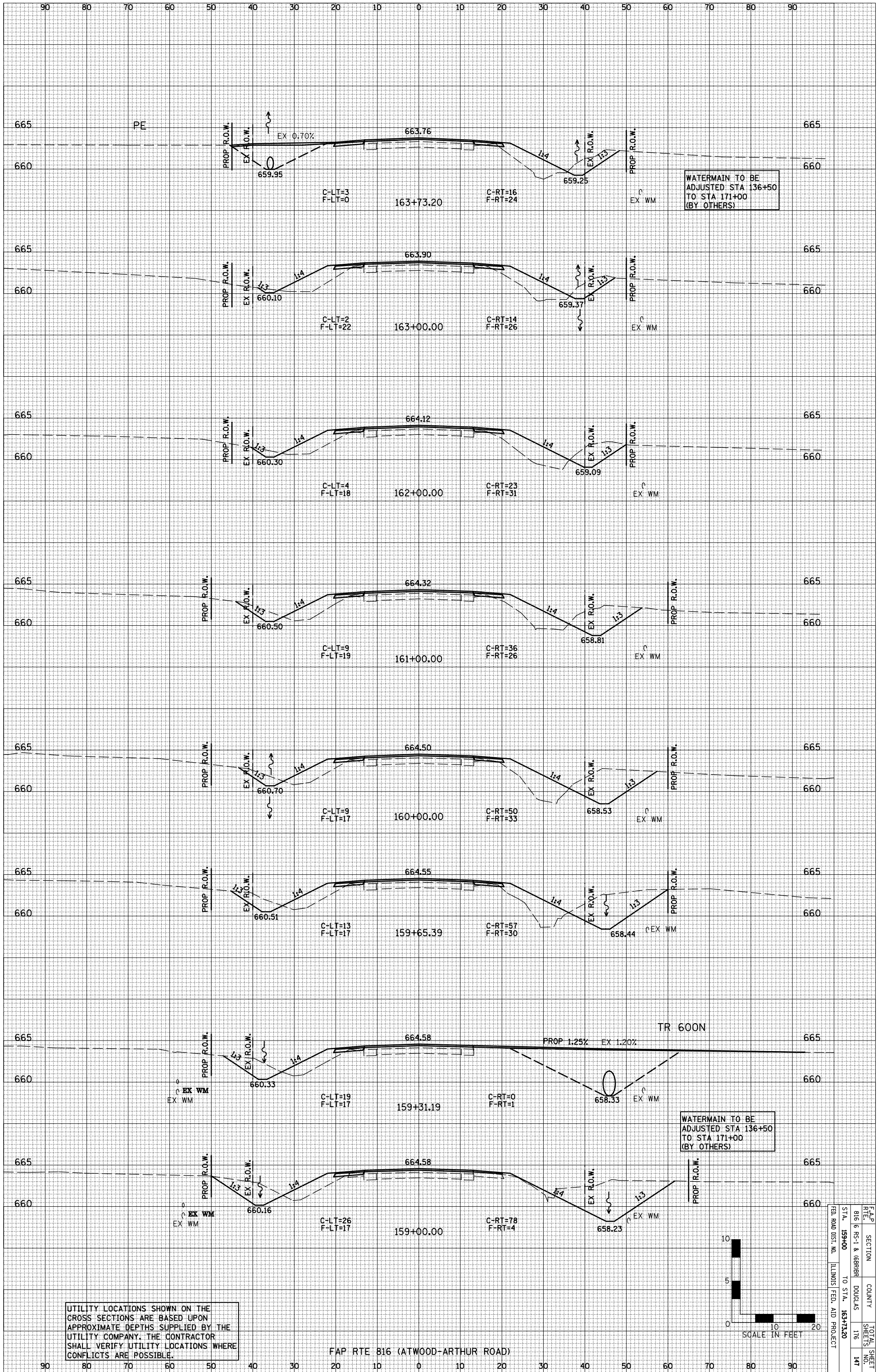


FAP	SECTION	COUNTY	TOTAL SHEET
RTE 816	RS-1 & (6888)	DOUGLAS	176
STA. 153+00	TO STA. 158+36.55		146
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
NO.		

FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
NOTE BOOK		
NO.		

FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS

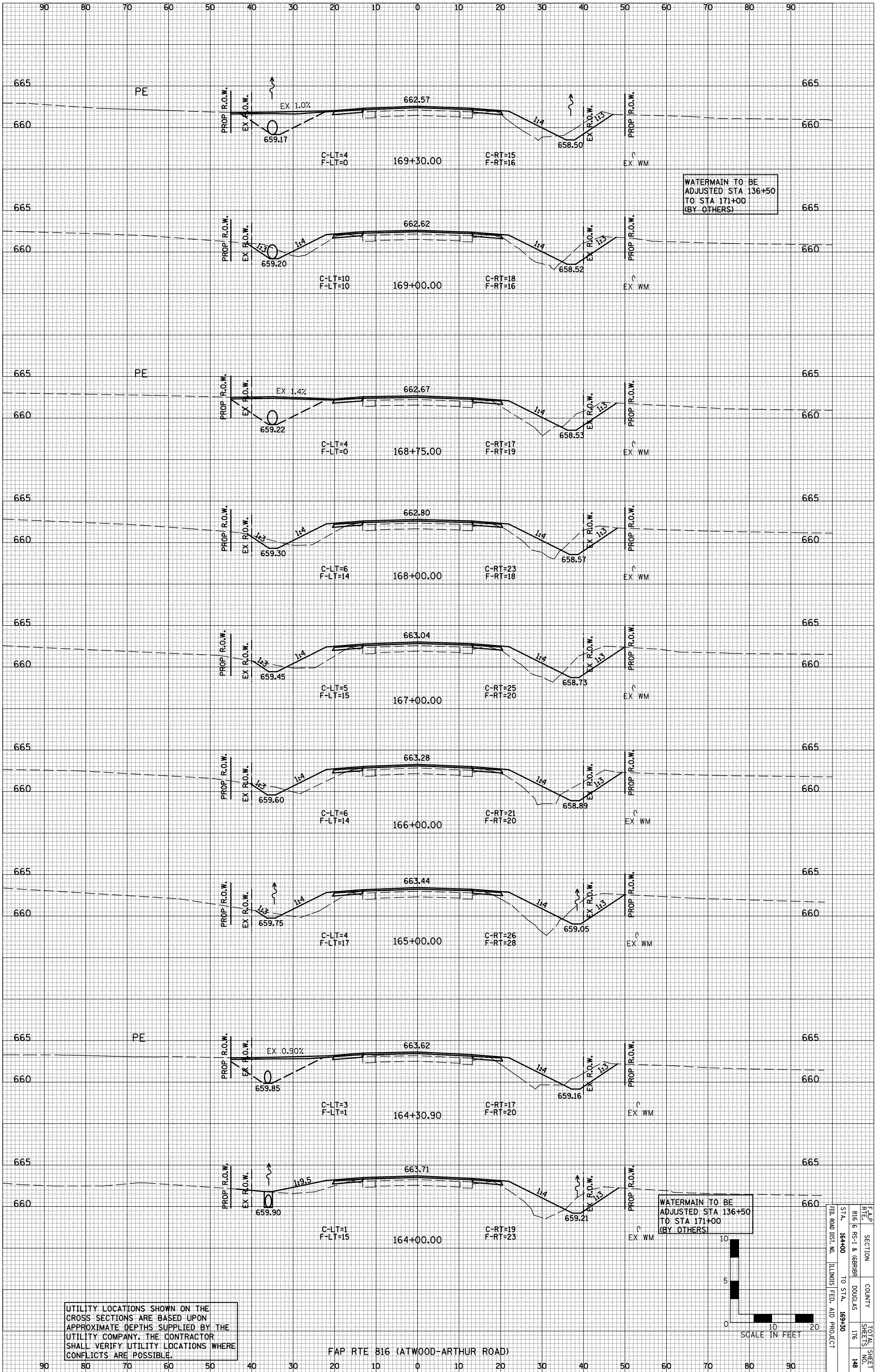


F.A.P. SECTION	COUNTY	TOTAL SHEET
816 (RS-1 & 6898B)	DOUGLAS	176
STA. 159+00 TO STA. 163+73.20	ILLINOIS FED. AID PROJECT	147

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

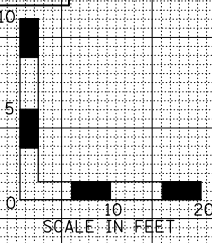
FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS



UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE DEPTHS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS WHERE CONFLICTS ARE POSSIBLE.

FAP RTE 816 (ATWOOD-ARTHUR ROAD)

WATERMAIN TO BE ADJUSTED STA 136+50 TO STA 171+00 (BY OTHERS)

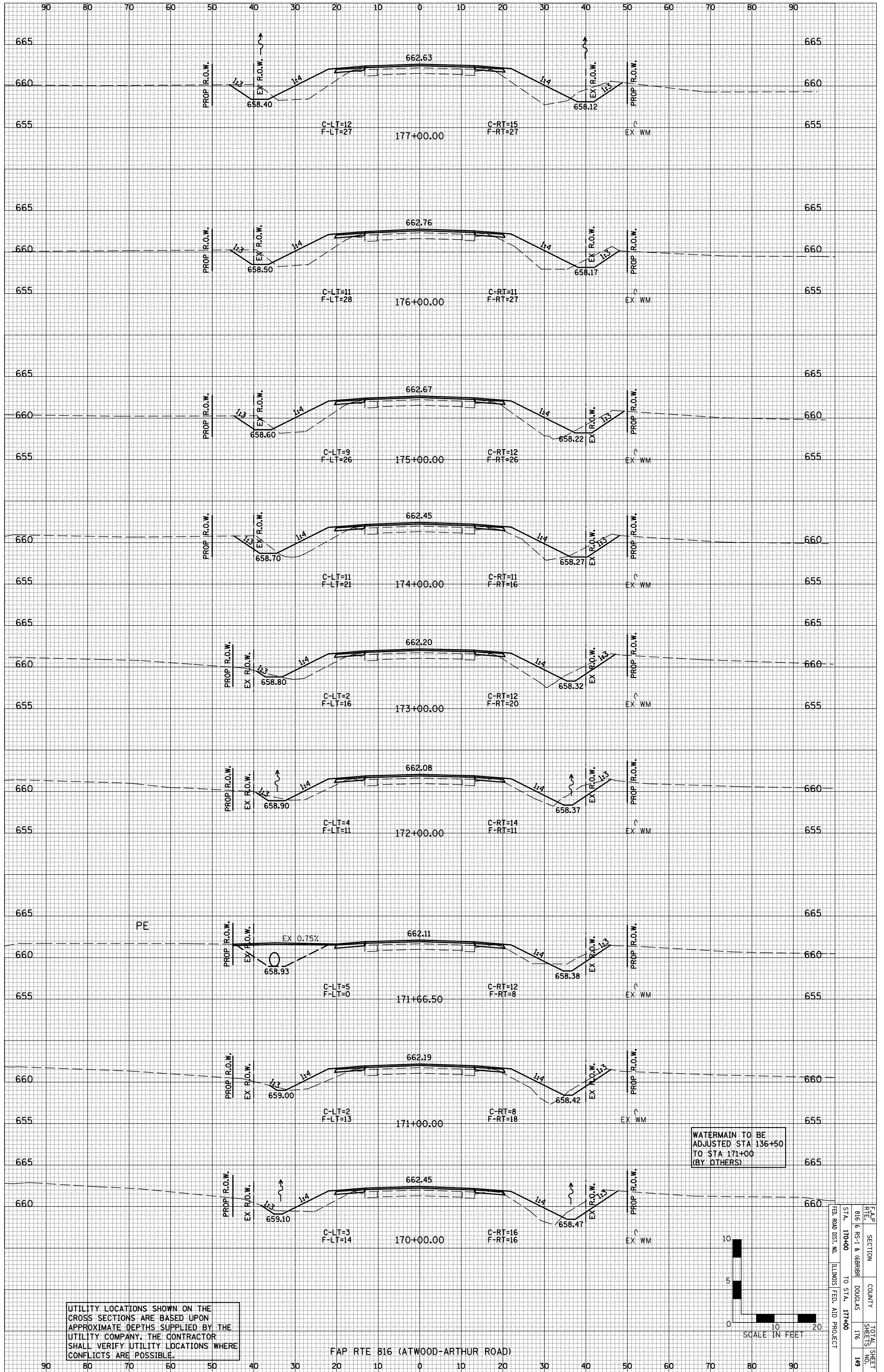


FAP	SECTION	COUNTY	TOTAL SHEET
RTE 816	RS-1 & 1698B	DOUGLAS	NO. 148
STA. 164+00	TO STA. 169+30		
ILLINOIS FED. AID PROJECT			

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

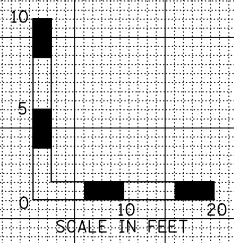
FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS



UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE DEPTHS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS WHERE CONFLICTS ARE POSSIBLE.

FAP RTE 816 (ATWOOD-ARTHUR ROAD)

WATERMAIN TO BE ADJUSTED STA 136+50 TO STA 171+00 (BY OTHERS)

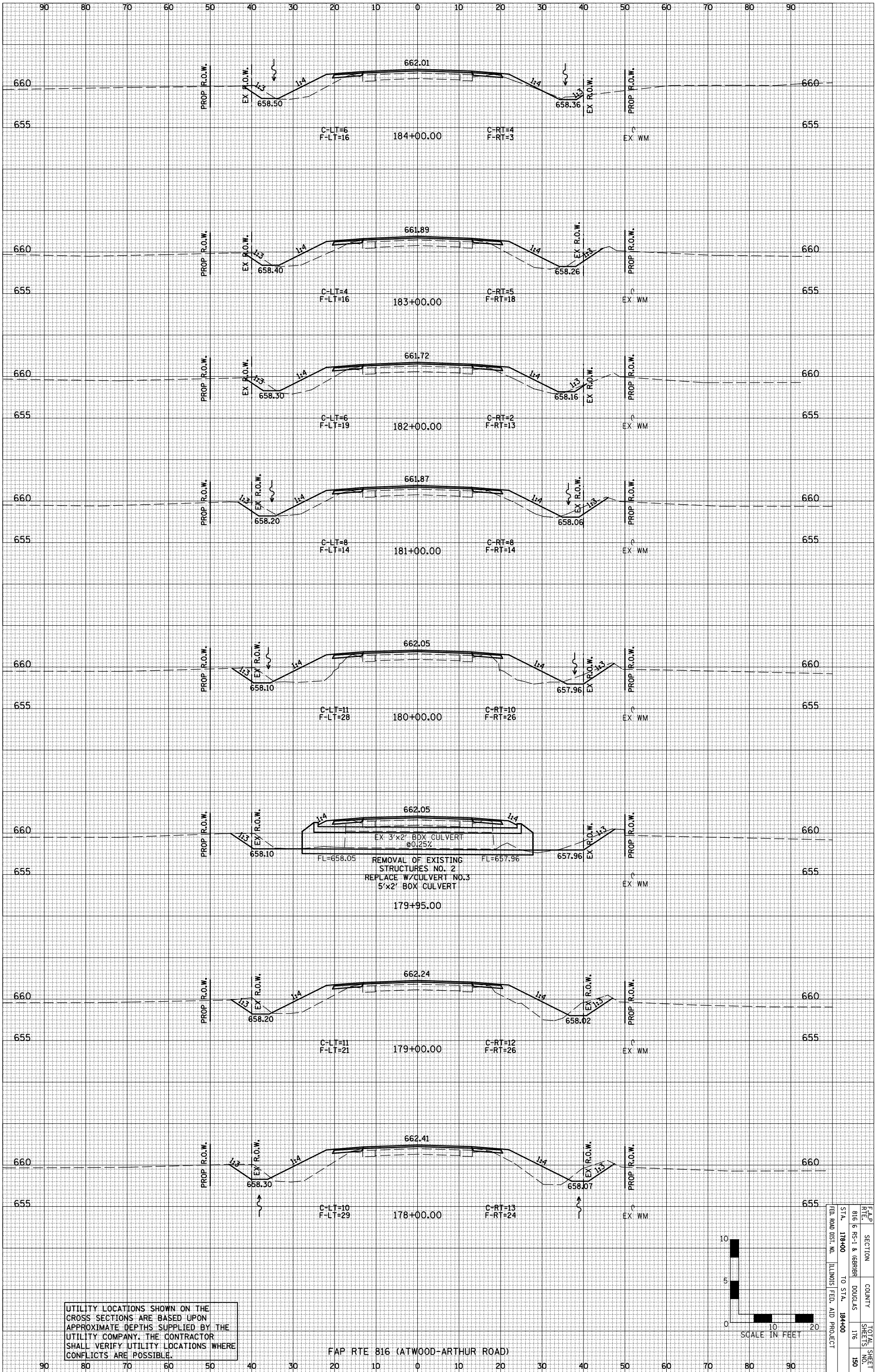


FAP	SECTION	COUNTY	TOTAL SHEET
RTE 816	RS-1 & 1698B	DOUGLAS	NO. 149
STA. 170+00	TO STA. 177+00	ILLINOIS FED. AID PROJECT	

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

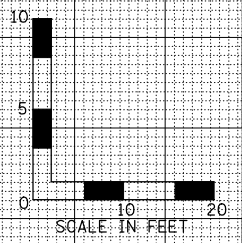
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS



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FAP RTE 816 (ATWOOD-ARTHUR ROAD)

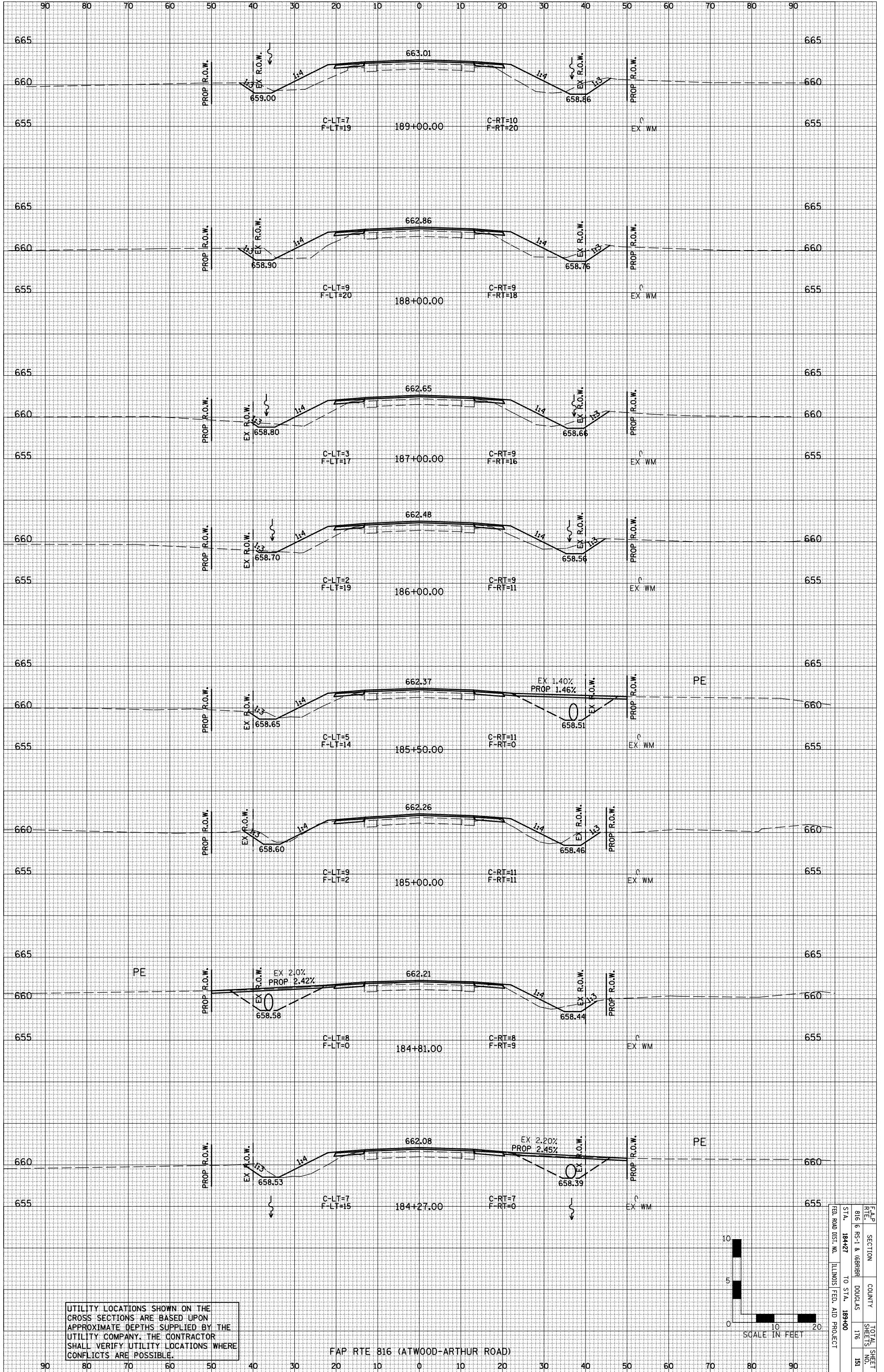


FAP	SECTION	COUNTY	TOTAL SHEET
RTE 816	RS-1 & 698BR	DOUGLAS	NO. 150
STA. 178+00	TO STA. 184+00		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

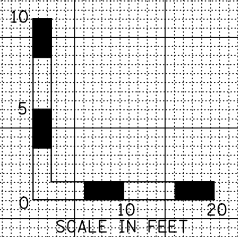
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS



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FAP RTE 816 (ATWOOD-ARTHUR ROAD)

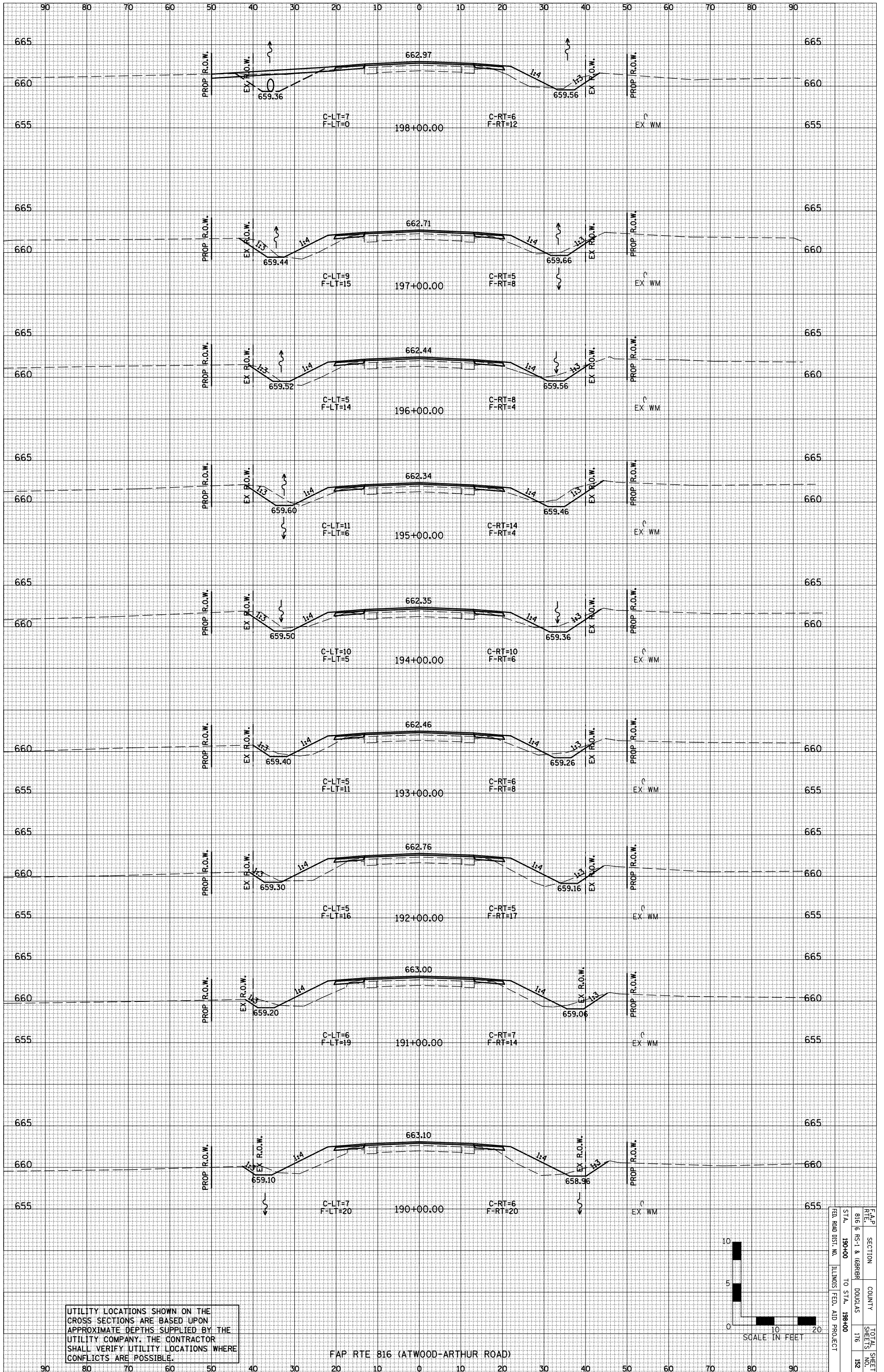


FAP	SECTION	COUNTY	TOTAL SHEET
RTE 816	RS-1 & (6898)	DOUGLAS	NO. 151
STA. 184+27	TO STA. 189+00		
ILLINOIS FED. AID PROJECT			

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

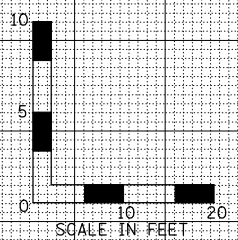
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS



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FAP RTE 816 (ATWOOD-ARTHUR ROAD)

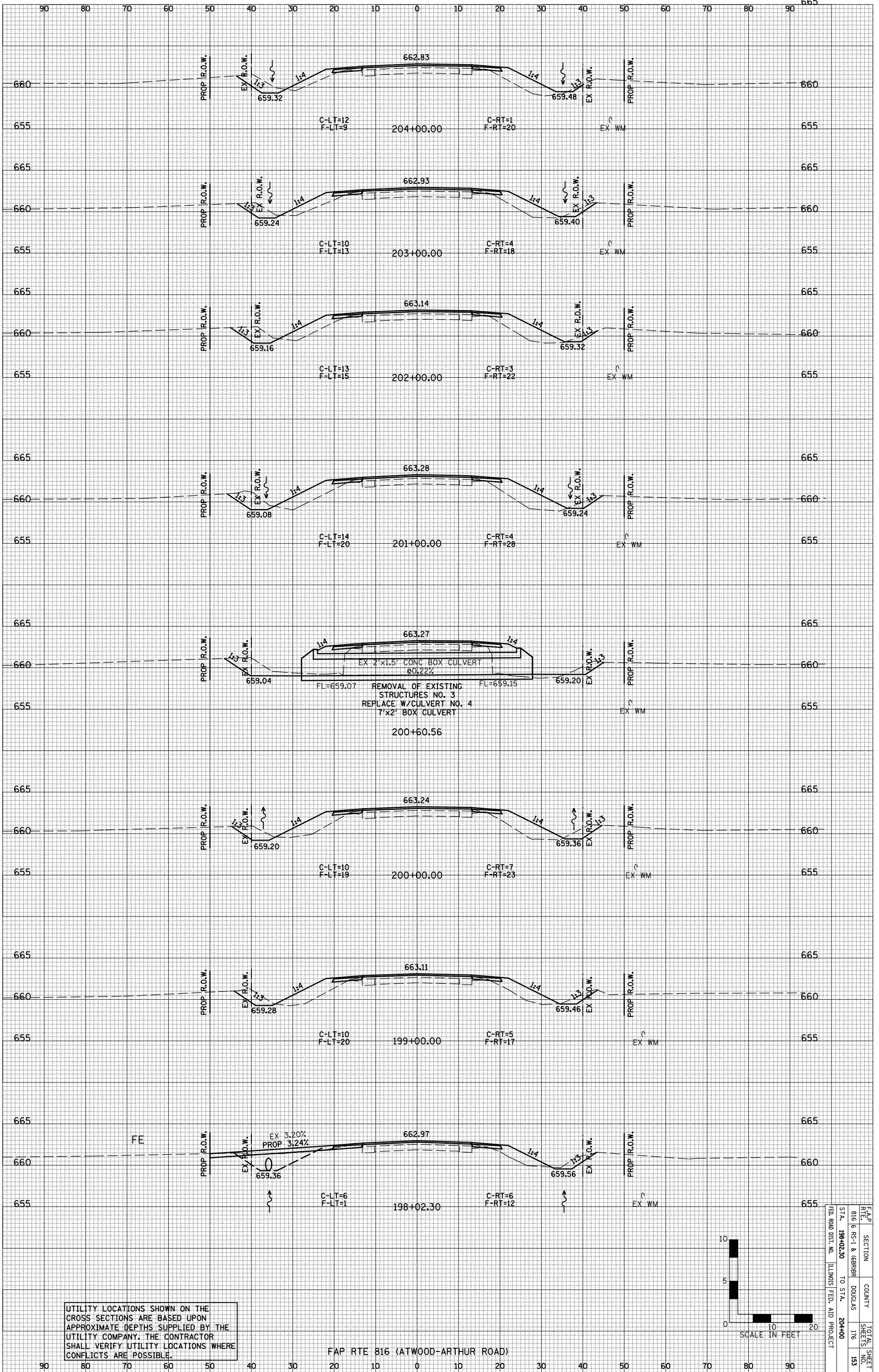


FAP	SECTION	COUNTY	TOTAL SHEET
RTE 816	RS-1 & 1698B	DOUGLAS	NO. 126
STA. 190+00	TO STA. 198+00		192
ILLINOIS FED. AID PROJECT			

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

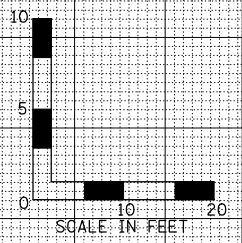
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS



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FAP RTE 816 (ATWOOD-ARTHUR ROAD)

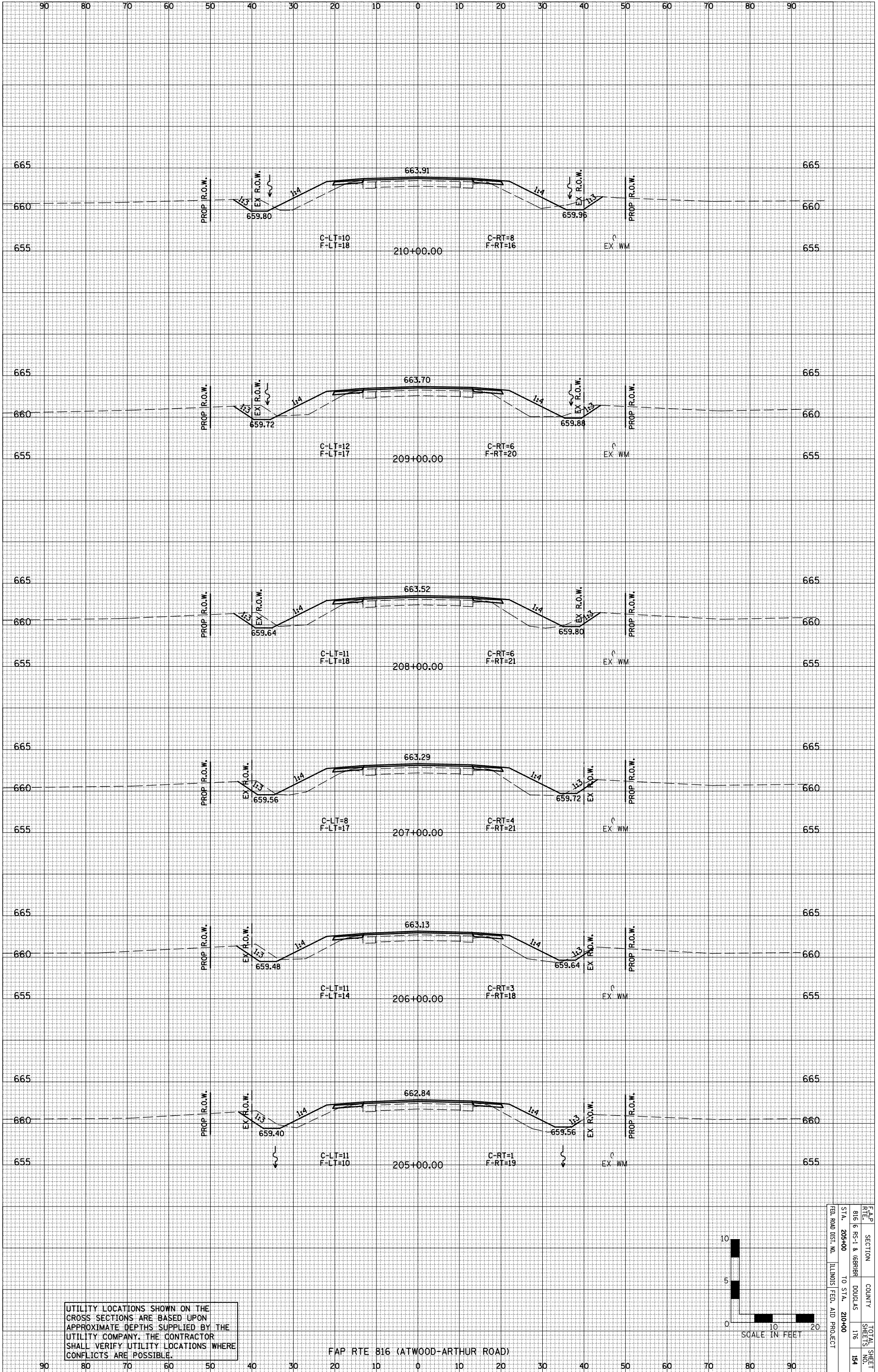


FAP	SECTION	COUNTY	TOTAL SHEET
RTE 816	RS-1 & 1698BR	DOUGLAS	116
STA. 198+02.30	TO STA. 204+00		153
FEED ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

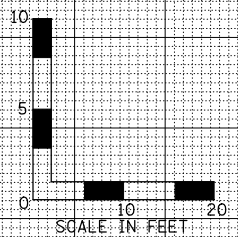
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS



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FAP RTE 816 (ATWOOD-ARTHUR ROAD)

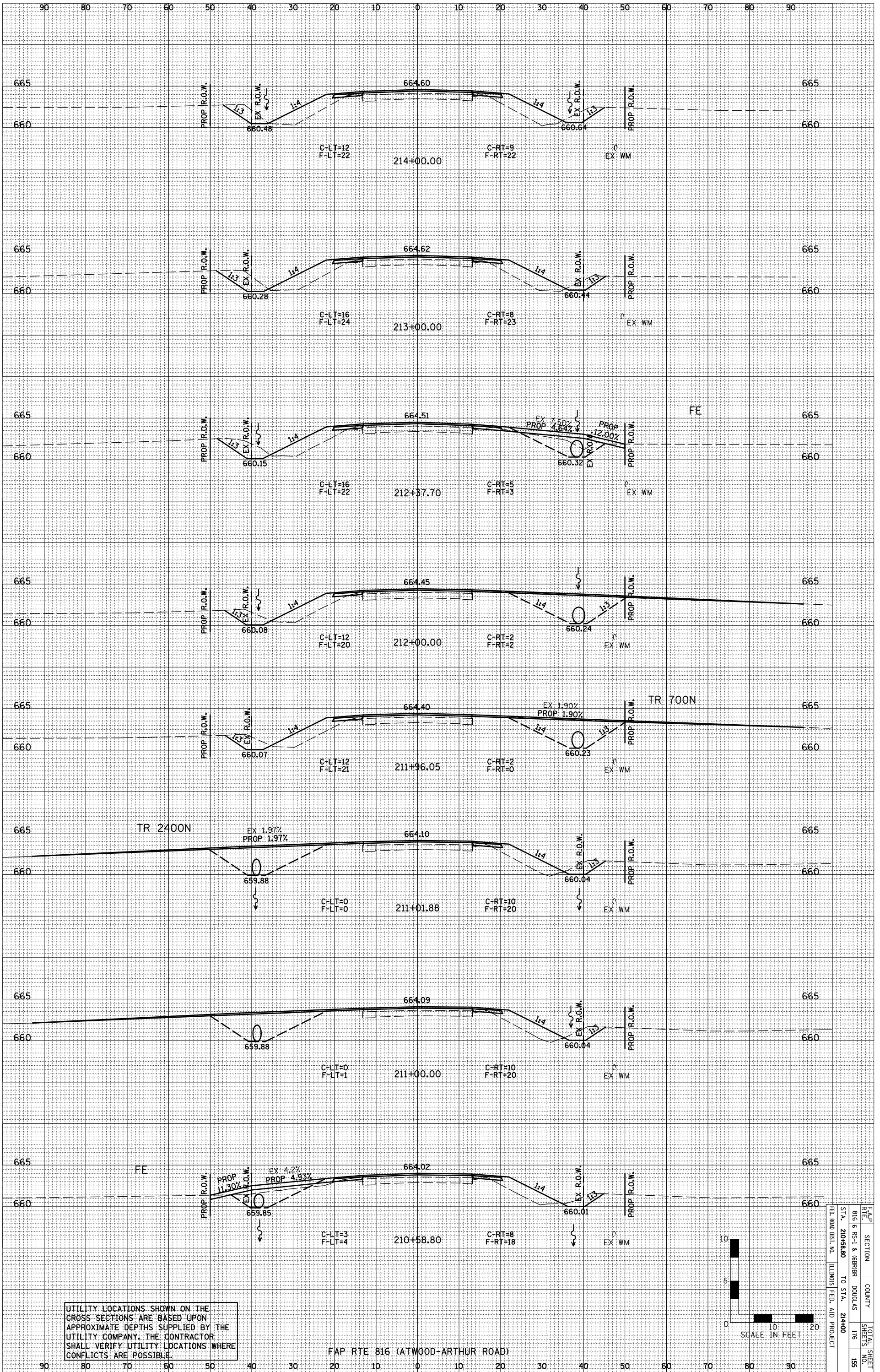


FAP	SECTION	COUNTY	TOTAL SHEET
RTE 816	RS-1 & (698)B	DOUGLAS	176
STA. 205+00	TO STA. 210+00		154
ILLINOIS FED. AID PROJECT			

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

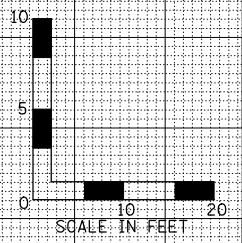
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS



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FAP RTE 816 (ATWOOD-ARTHUR ROAD)

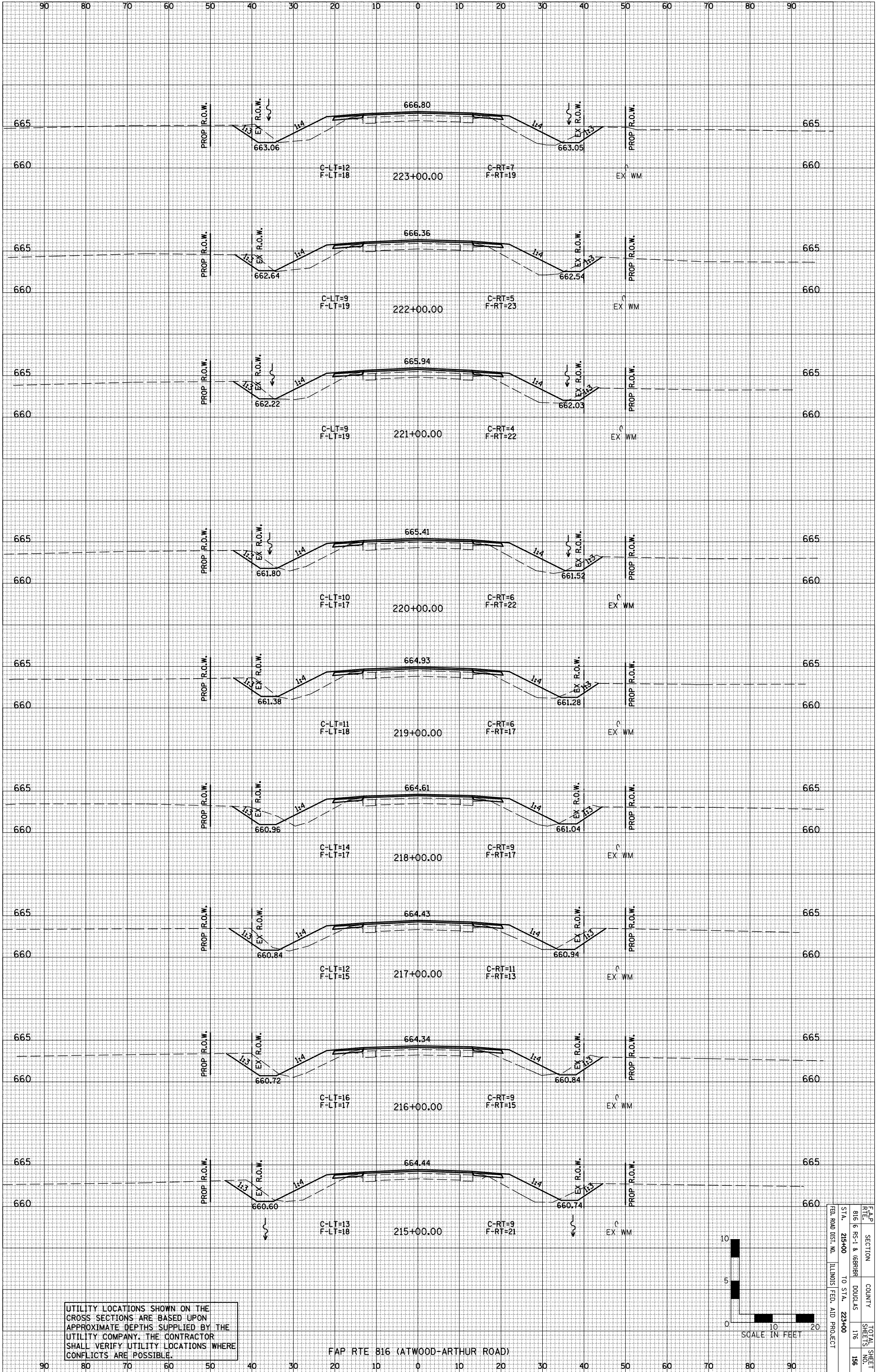


FAP	SECTION	COUNTY	TOTAL SHEET
RTE 816	RS-1 & (698)R	DOUGLAS	NO. 155
STA. 210+58.80	TO STA. 214+00		
FEED ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS

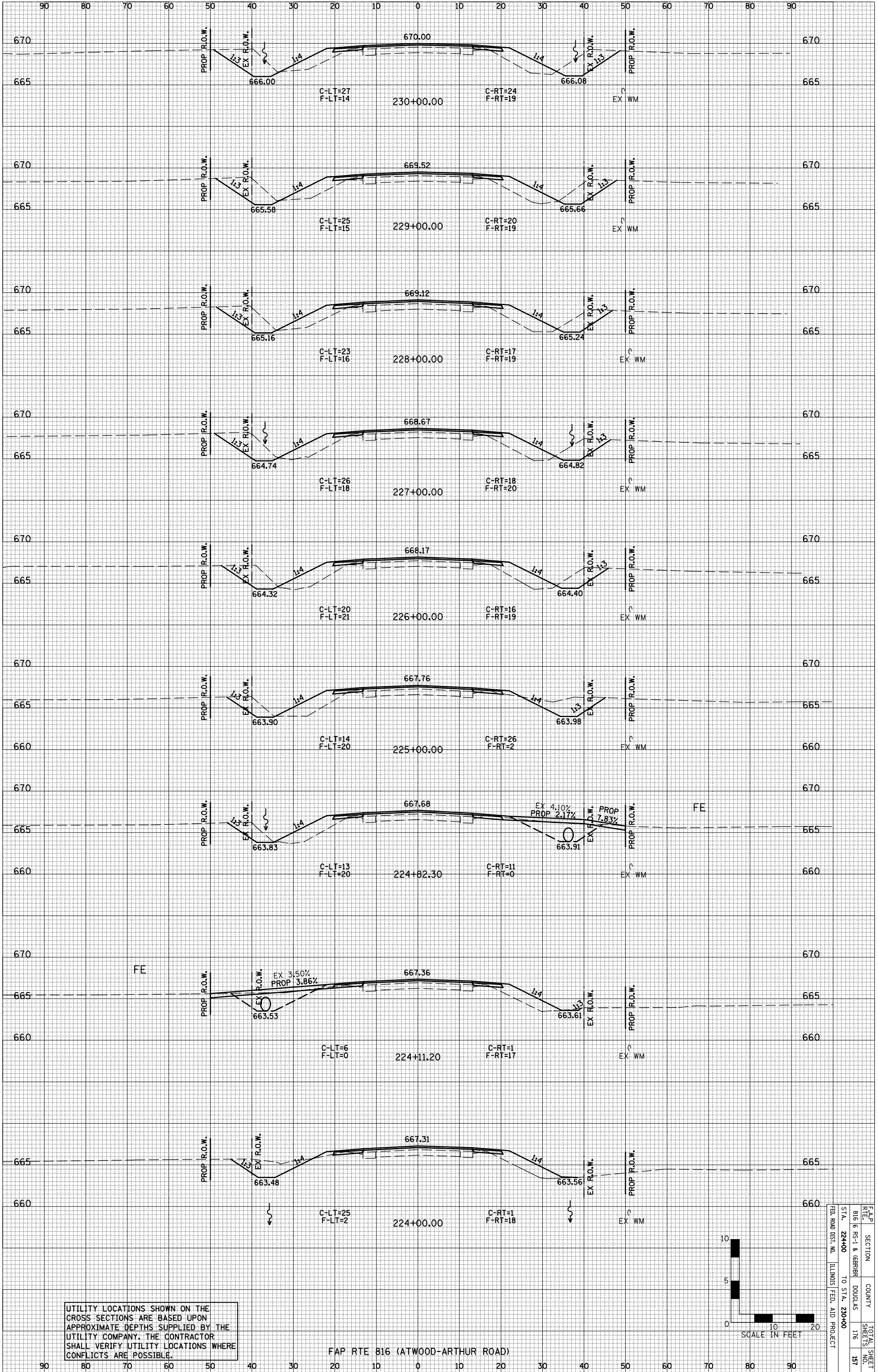


FAP	SECTION	COUNTY	TOTAL SHEET
RTE 816	RS-1 & (698)R	DOUGLAS	116
STA. 215+00	TO STA. 223+00		156
ILLINOIS FED. AID PROJECT			

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

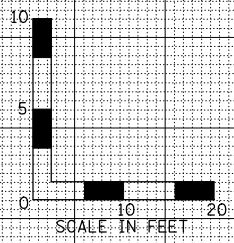
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS



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FAP RTE 816 (ATWOOD-ARTHUR ROAD)

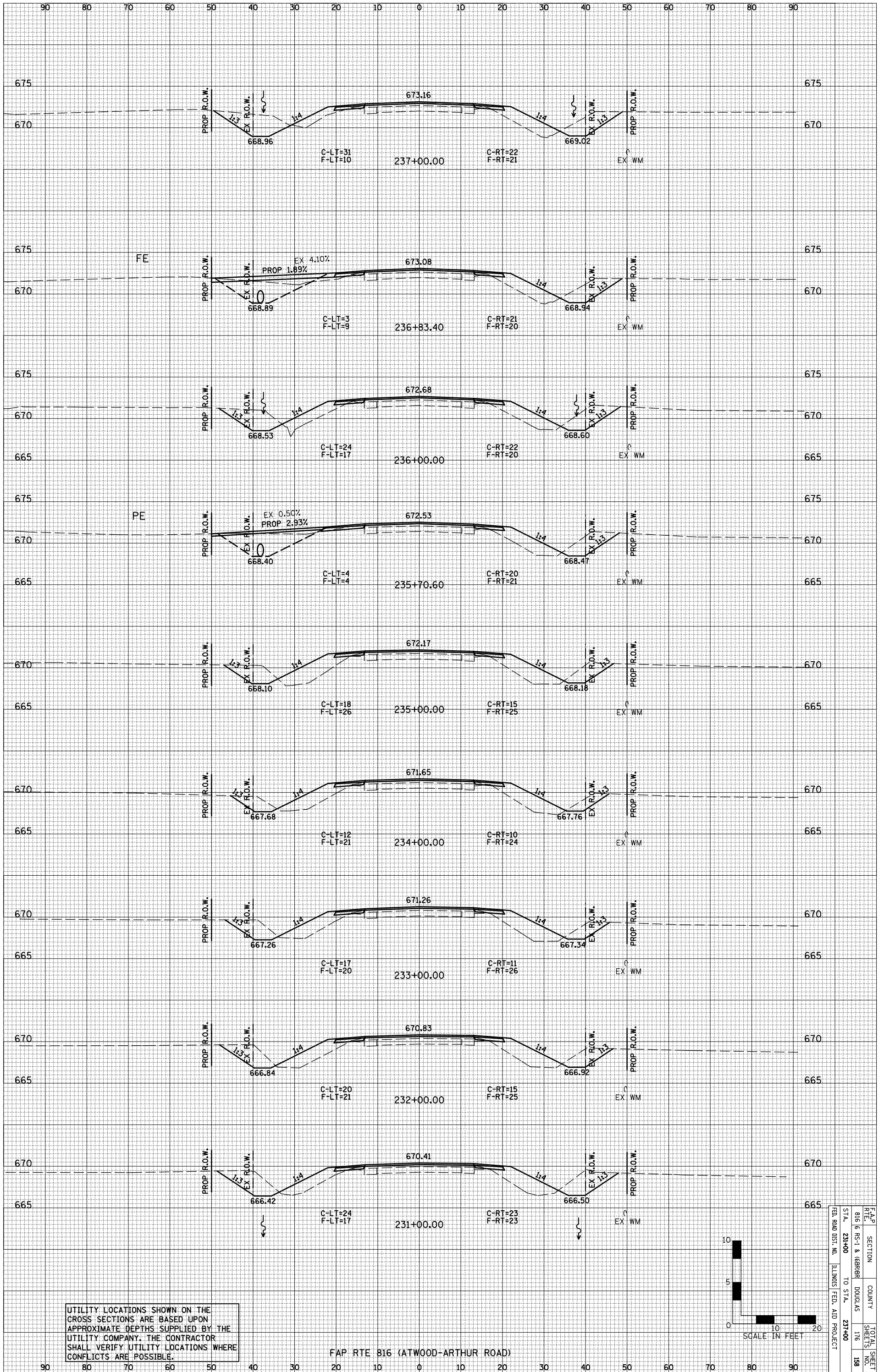


FAP	SECTION	COUNTY	TOTAL SHEET
RTE 816	RS-1 & (6898)	DOUGLAS	NO. 157
STA. 224+00	TO STA. 230+00		
ILLINOIS FED. AID PROJECT			

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS



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FAP RTE 816 (ATWOOD-ARTHUR ROAD)

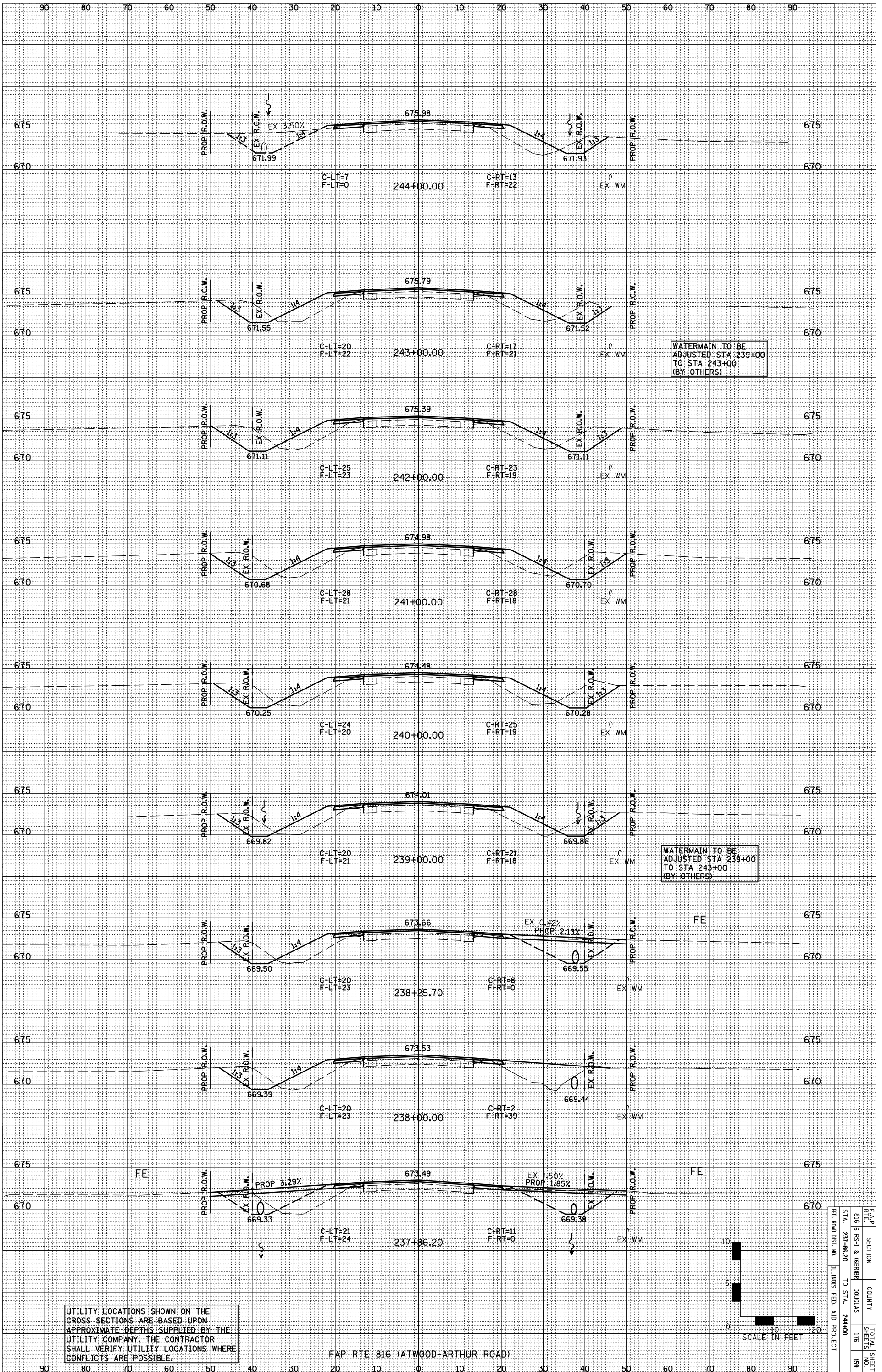


FAP	SECTION	COUNTY	TOTAL SHEET
RTE 816	RS-1 & (69)BR	DOUGLAS	116
STA. 231+00	TO STA. 237+00		158
ILLINOIS FED. AID PROJECT			

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

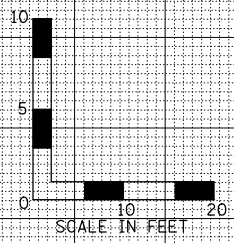
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

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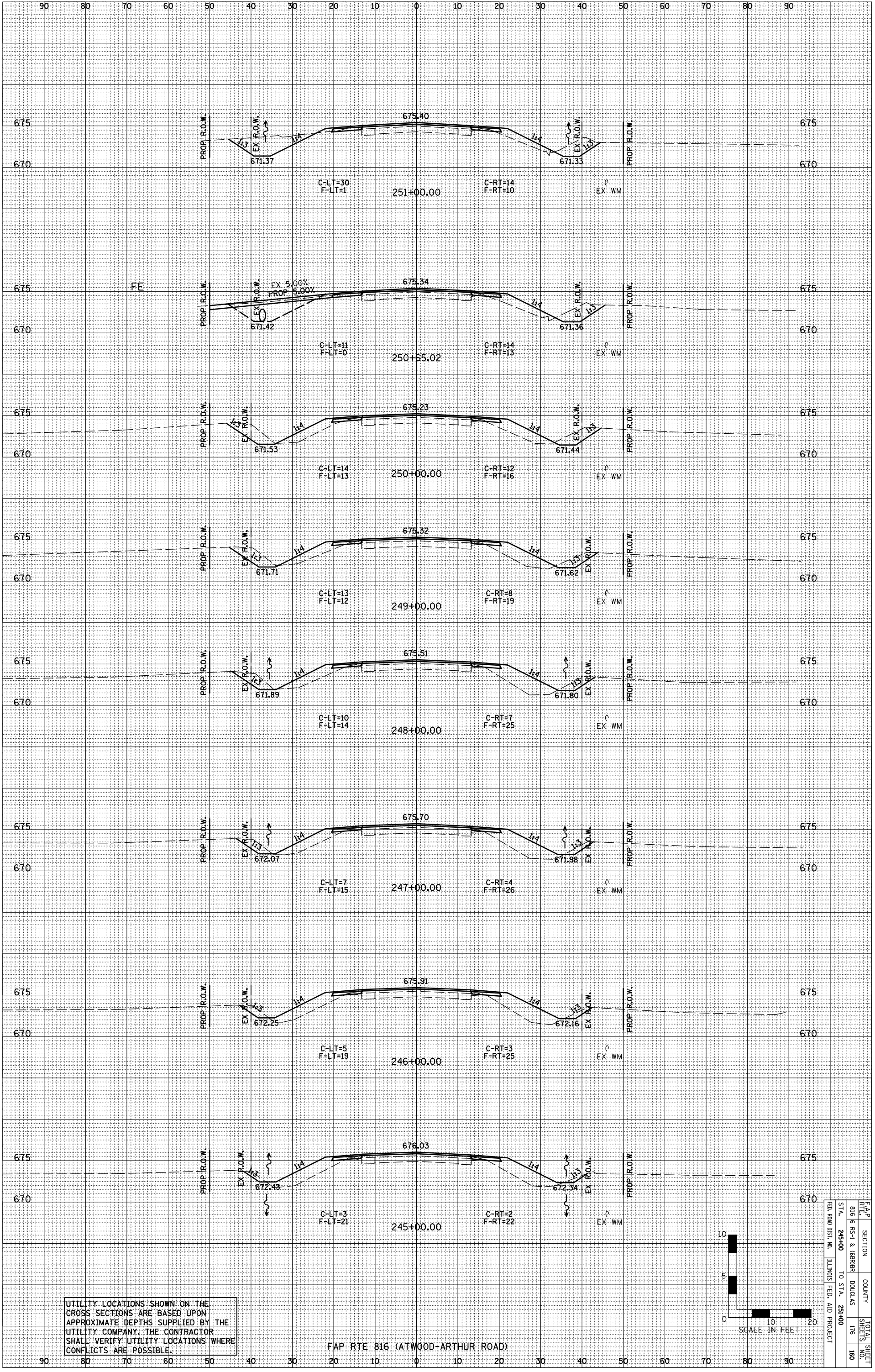


FAP	SECTION	COUNTY	TOTAL SHEET
RTE 816	RS-1 & (689B)	DOUGLAS	116
STA. 237+86.20	TO STA. 244+00		159
ILLINOIS FED. AID PROJECT			

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

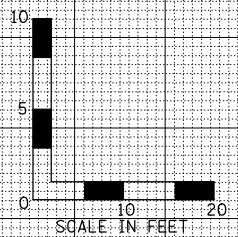
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

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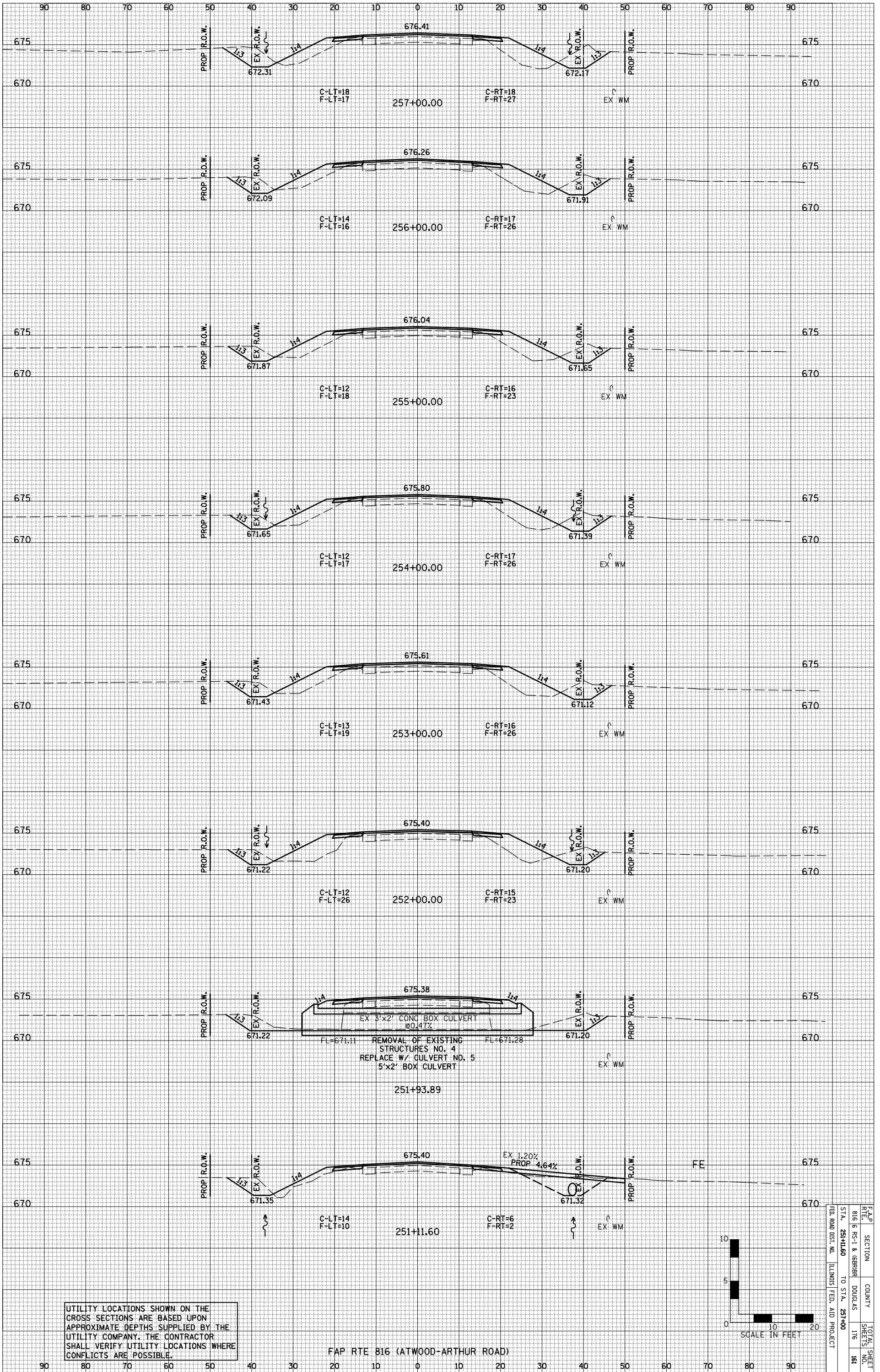


FAP	SECTION	COUNTY	TOTAL SHEET
RTE 816	RS-1 & (6989)	DOUGLAS	116
STA. 245+00	TO STA. 251+00		180
FEED ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

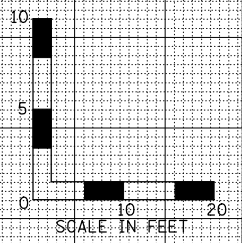
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

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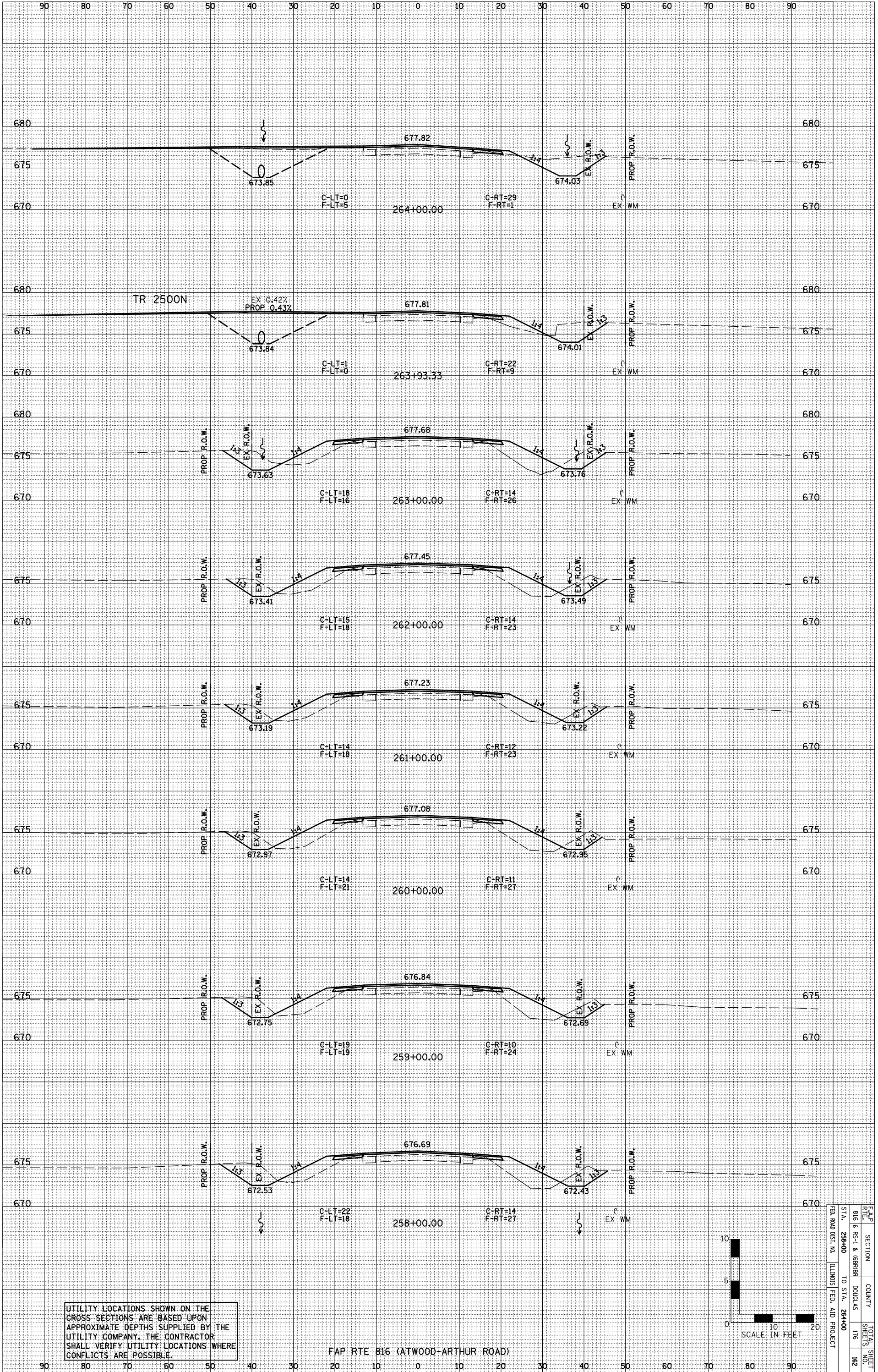


FAP	SECTION	COUNTY	TOTAL SHEET
RTE 816	RS-1 & 1688H	DOUGLAS	NO. 116
STA. 251+11.60	TO STA. 257+00		161
ILLINOIS FED. AID PROJECT			

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

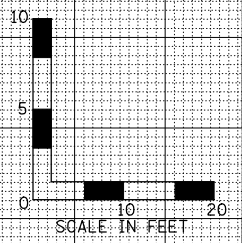
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

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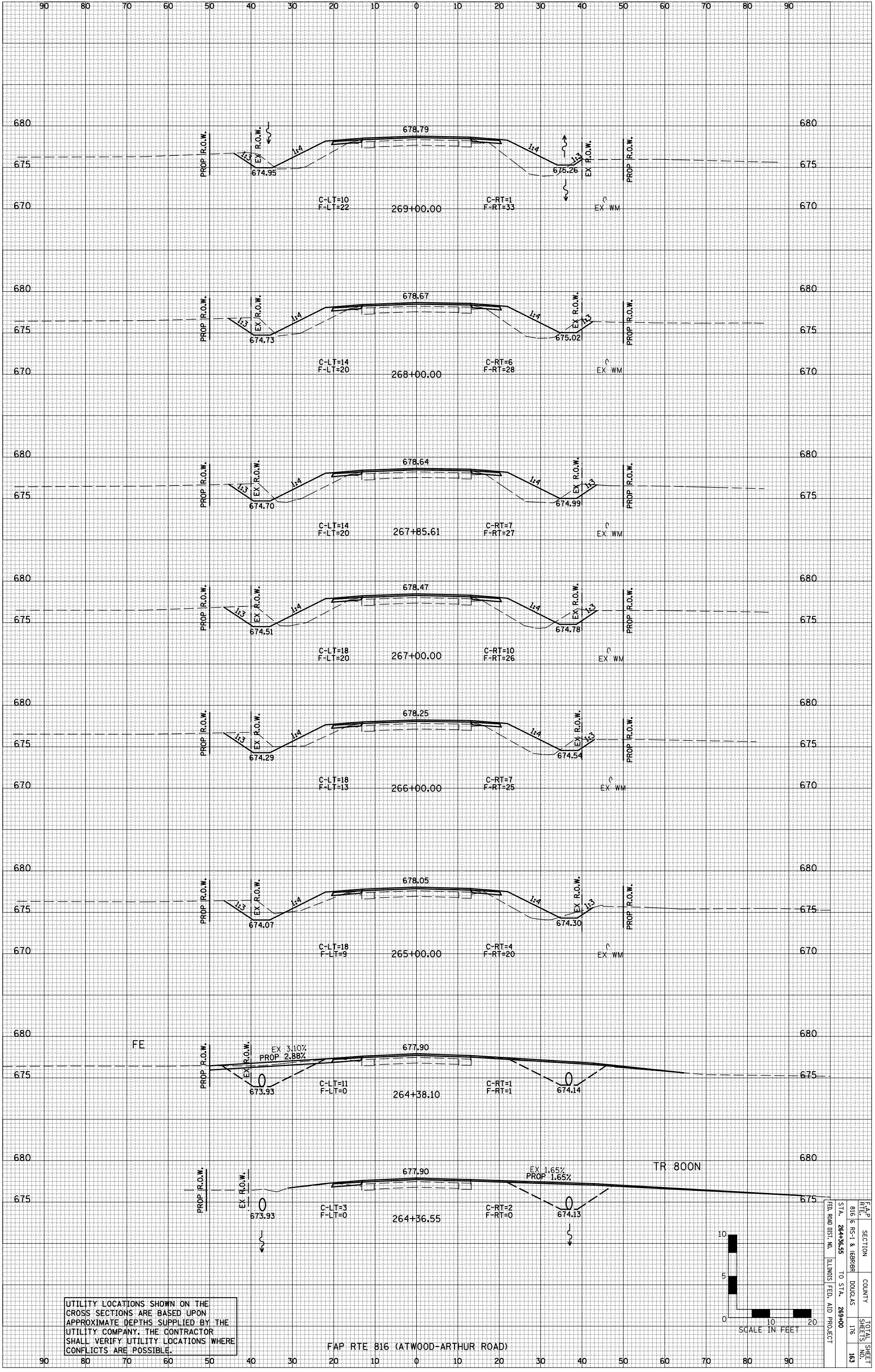


FAP	SECTION	COUNTY	TOTAL SHEET
RTE 816	RS-1 & (698)H	DOUGLAS	NO. 116
STA. 288+00	TO STA. 284+00		182
ILLINOIS FED. AID PROJECT			

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

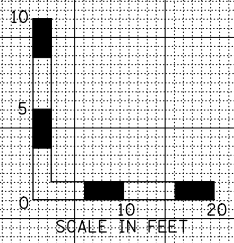
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

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FAP RTE 816 (ATWOOD-ARTHUR ROAD)

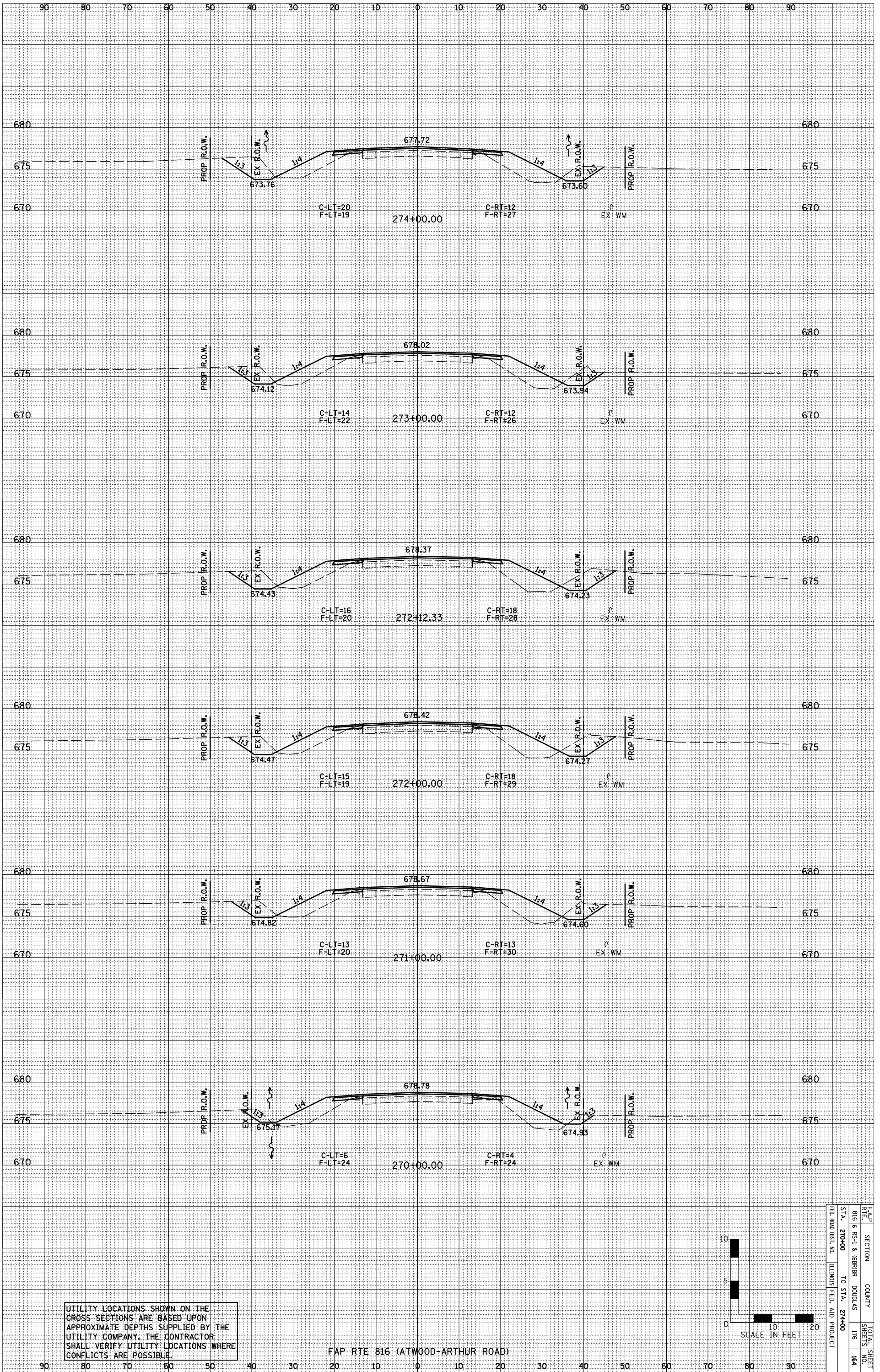


FAP	SECTION	COUNTY	TOTAL SHEET
RTE 816	RS-1 & (698)B	DOUGLAS	116
STA. 264+36.55	TO STA. 269+00		163
ILLINOIS FED. AID PROJECT			

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

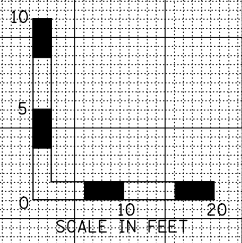
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

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FAP RTE 816 (ATWOOD-ARTHUR ROAD)

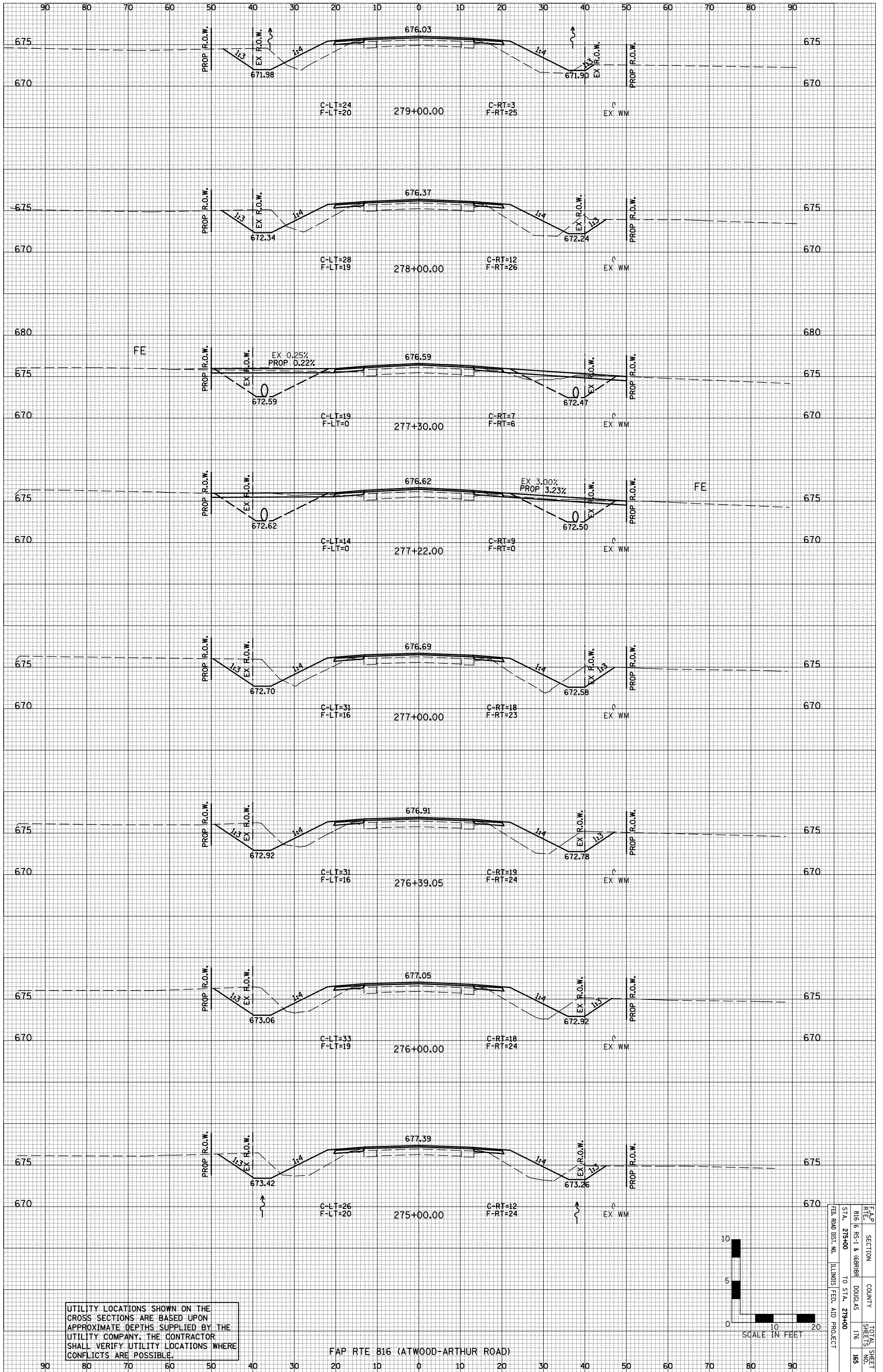


FAP	SECTION	COUNTY	TOTAL SHEET
RTE 816	RS-1 & (6989)	DOUGLAS	116
STA. 270+00	TO STA. 274+00		184
ILLINOIS FED. AID PROJECT			

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

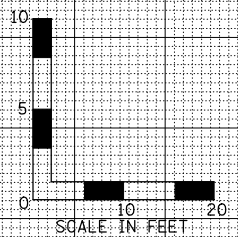
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS



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FAP RTE 816 (ATWOOD-ARTHUR ROAD)

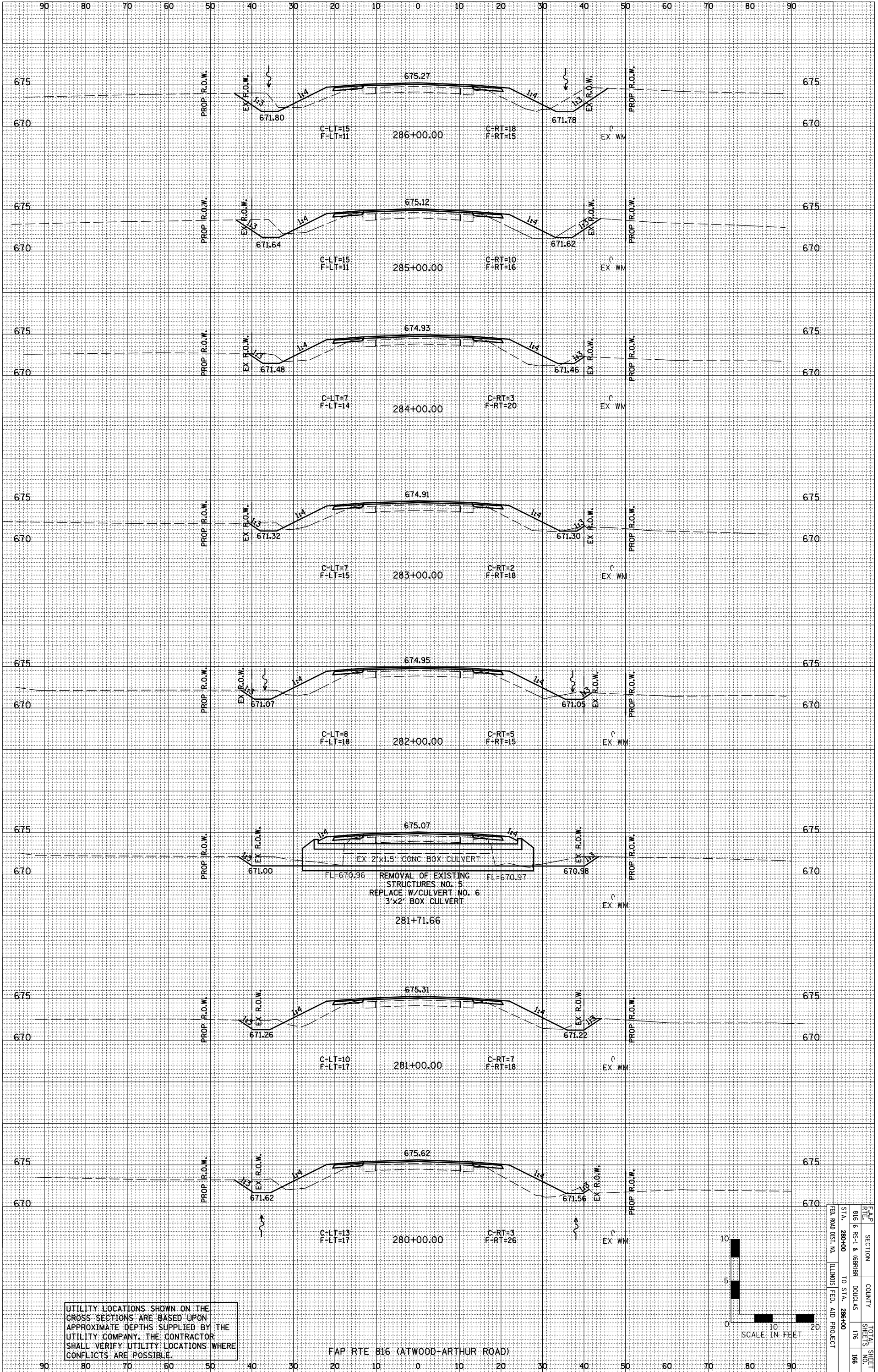


FAP	SECTION	COUNTY	TOTAL SHEET
RTE 816	RS-1 & (698)H	DOUGLAS	116
STA. 275+00	TO STA. 279+00		165
ILLINOIS FED. AID PROJECT			

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS



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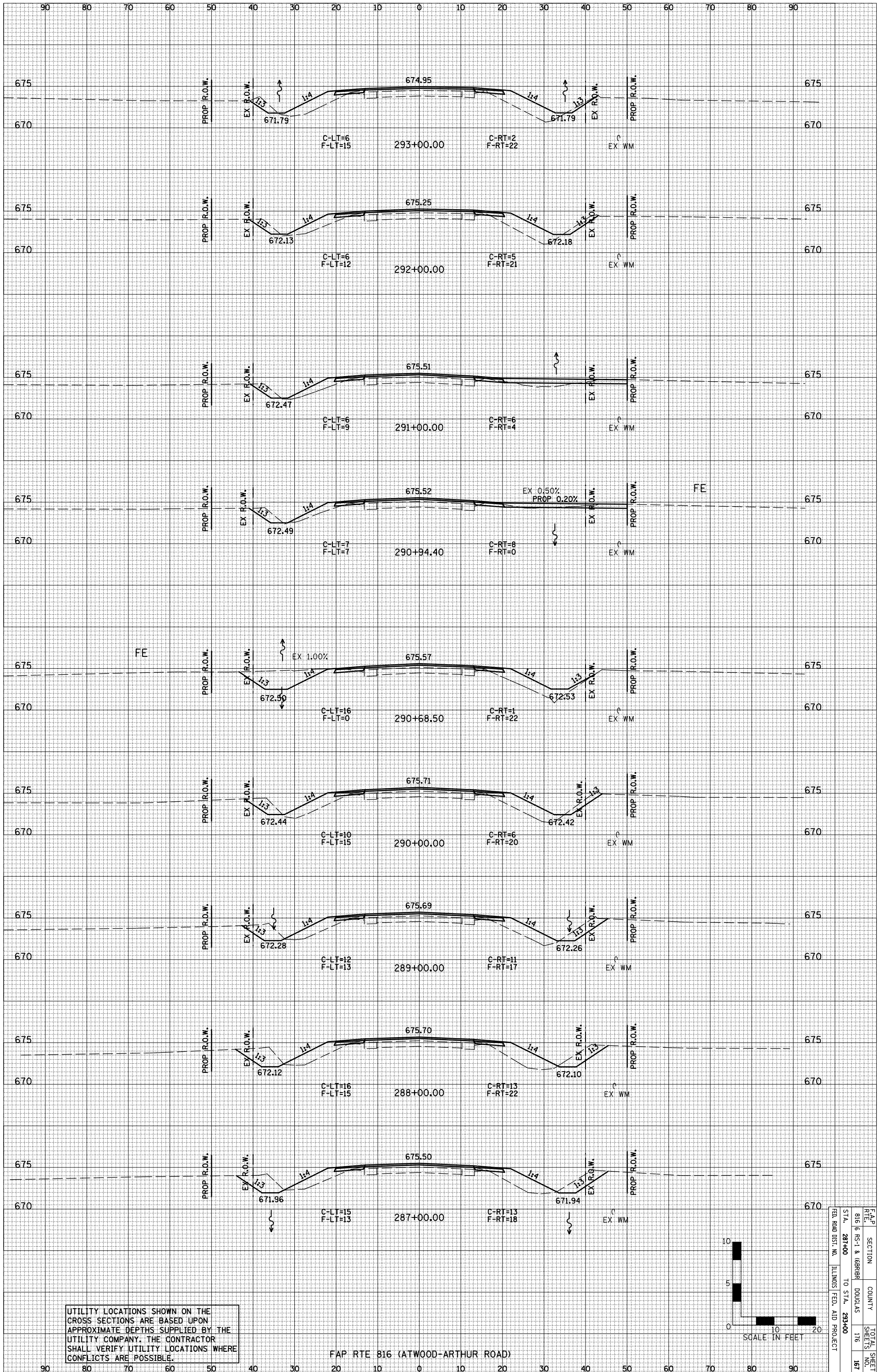
FAP RTE 816 (ATWOOD-ARTHUR ROAD)

FAP	SECTION	COUNTY	TOTAL SHEET
RTE 816	RS-1 & (6898)	DOUGLAS	116
STA. 280+00	TO STA. 286+00		166
ILLINOIS FED. AID PROJECT			

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

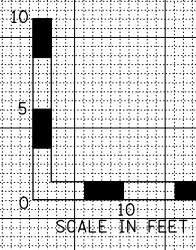
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS



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FAP RTE 816 (ATWOOD-ARTHUR ROAD)

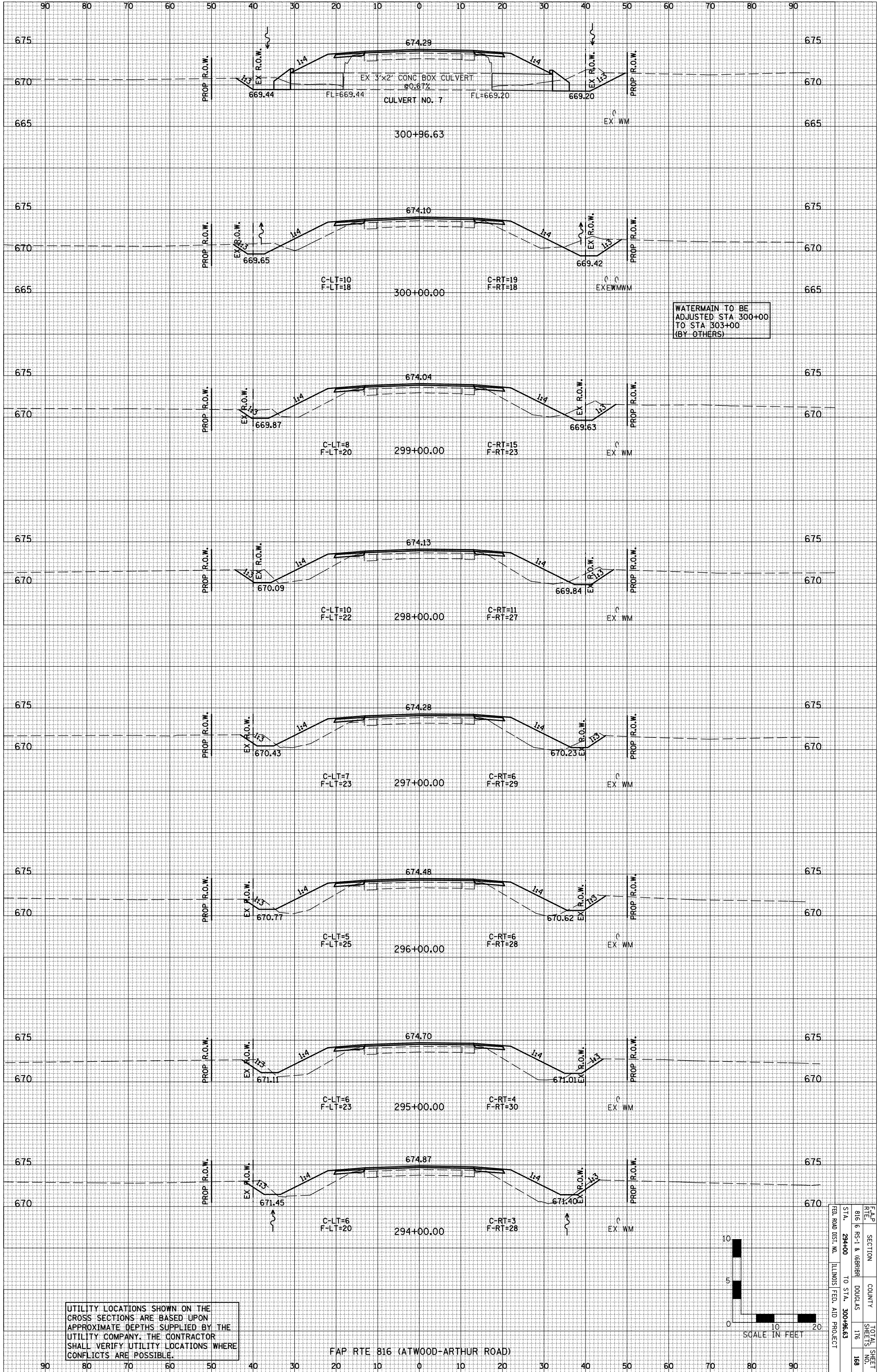


FAP	SECTION	COUNTY	TOTAL SHEET
R16	6 RS-1 & (6)RBR	DOUGLAS	116
STA. 287+00	TO STA. 293+00		167
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

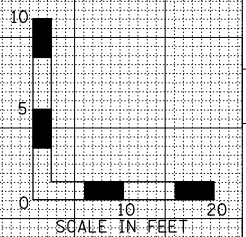
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS



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FAP RTE 816 (ATWOOD-ARTHUR ROAD)

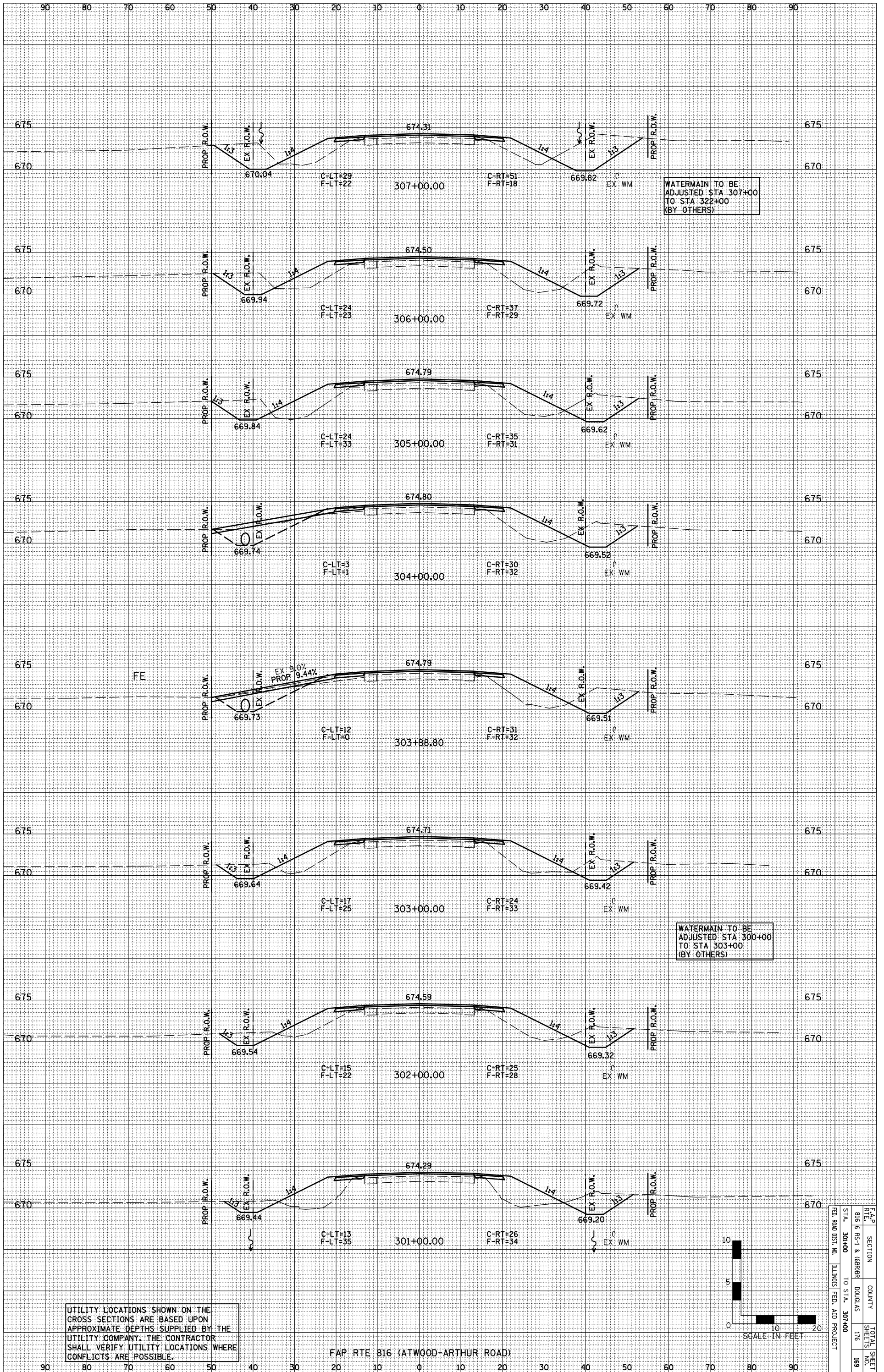


FAP	SECTION	COUNTY	TOTAL SHEET
RTE 816	RS-1 & (6989)	DOUGLAS	116
STA. 294+00	TO STA. 300+96.63		168
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

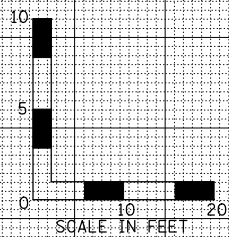
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS



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FAP RTE 816 (ATWOOD-ARTHUR ROAD)

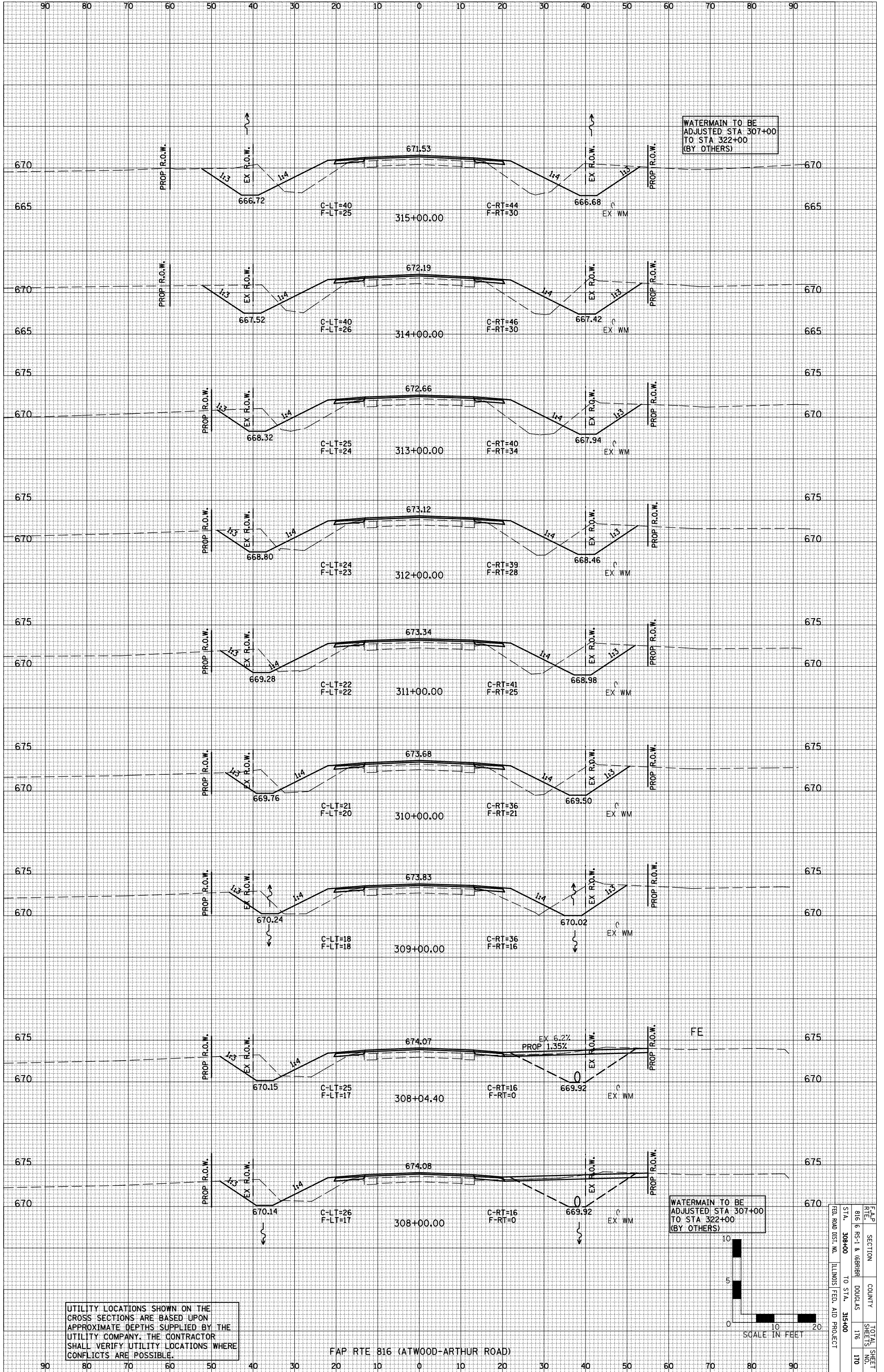


FAP	SECTION	COUNTY	TOTAL SHEET
RTE 816	RS-1 & (698)H	DOUGLAS	116
STA. 301+00	TO STA. 307+00		189
FEED ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

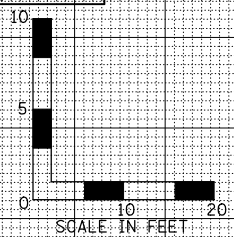
FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS



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FAP RTE 816 (ATWOOD-ARTHUR ROAD)

WATERMAIN TO BE ADJUSTED STA 307+00 TO STA 322+00 (BY OTHERS)

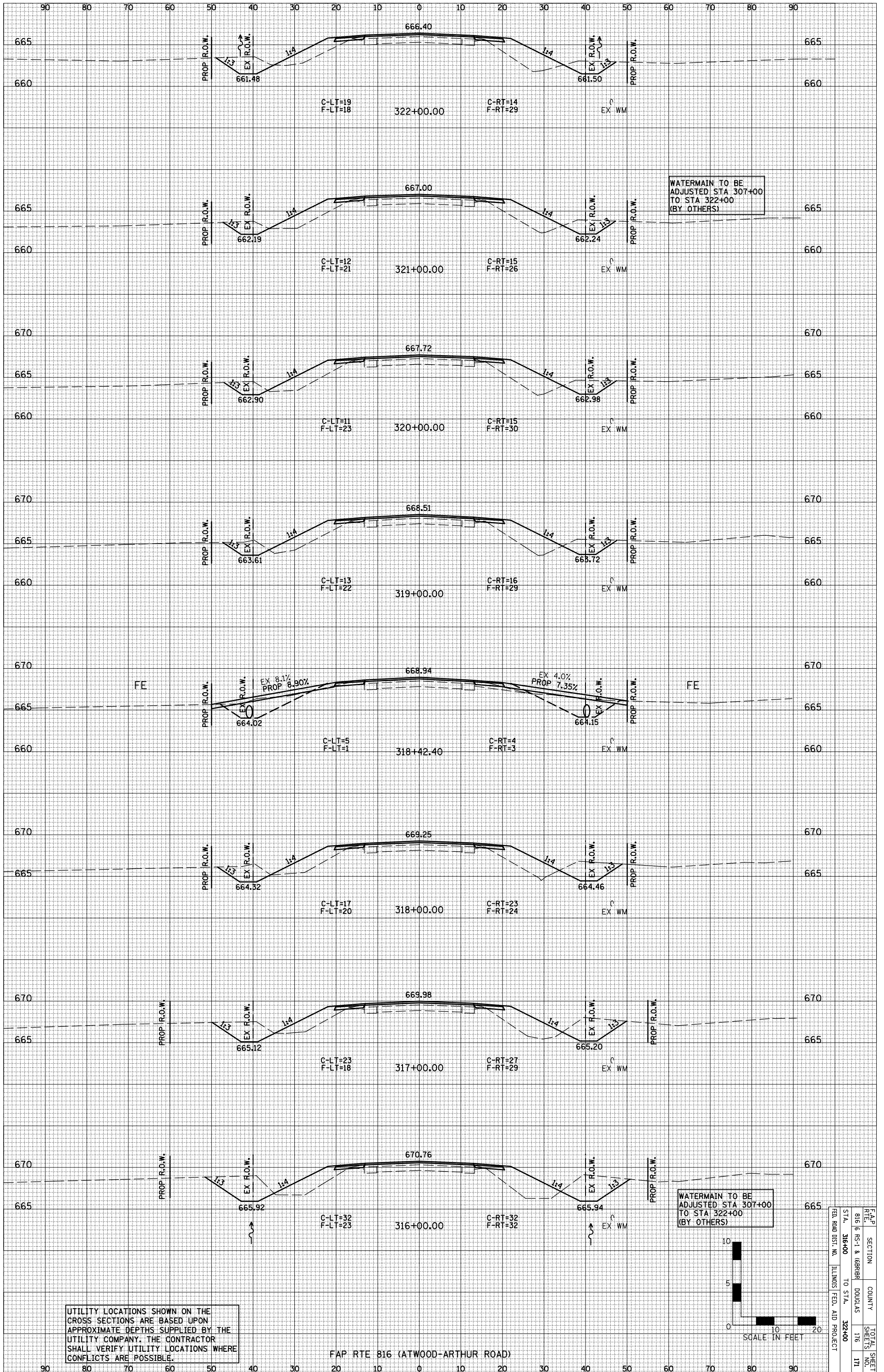


FAP	SECTION	COUNTY	TOTAL SHEET
RTE 816	RS-1 & (698)H	DOUGLAS	NO. 176
STA. 308+00	TO STA. 315+00		170
ILLINOIS FED. AID PROJECT			

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

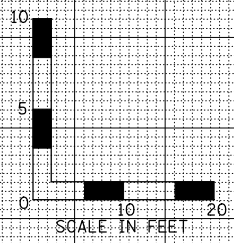
FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS



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FAP RTE 816 (ATWOOD-ARTHUR ROAD)

WATERMAIN TO BE ADJUSTED STA 307+00 TO STA 322+00 (BY OTHERS)

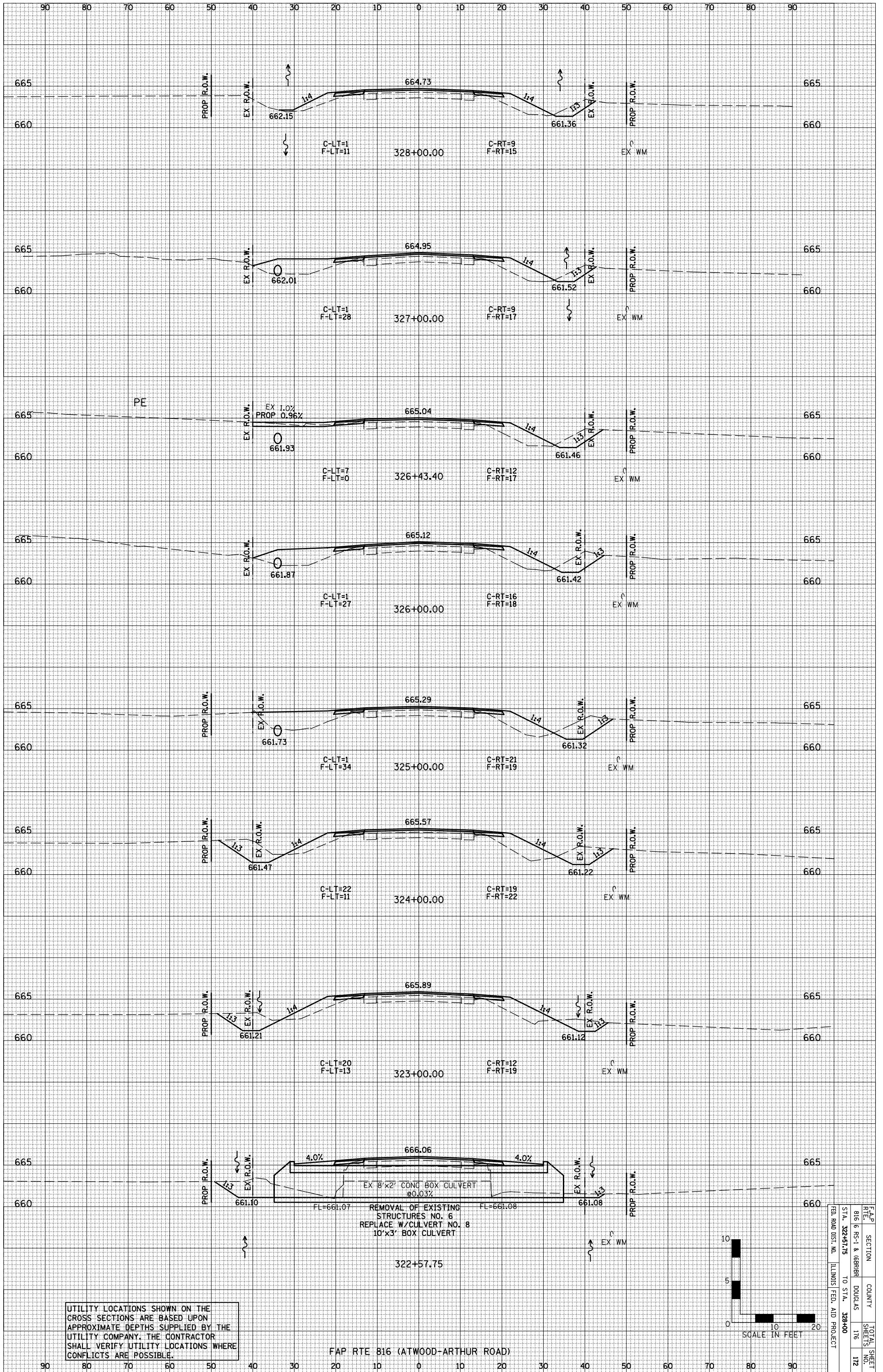


FAP	SECTION	COUNTY	TOTAL SHEET
RTE 816	RS-1 & (6989)	DOUGLAS	NO. 116
STA. 316+00	TO STA. 322+00		171
FEED ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

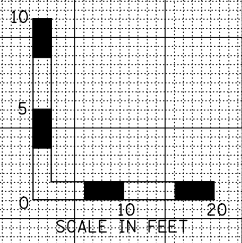
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS



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FAP RTE 816 (ATWOOD-ARTHUR ROAD)

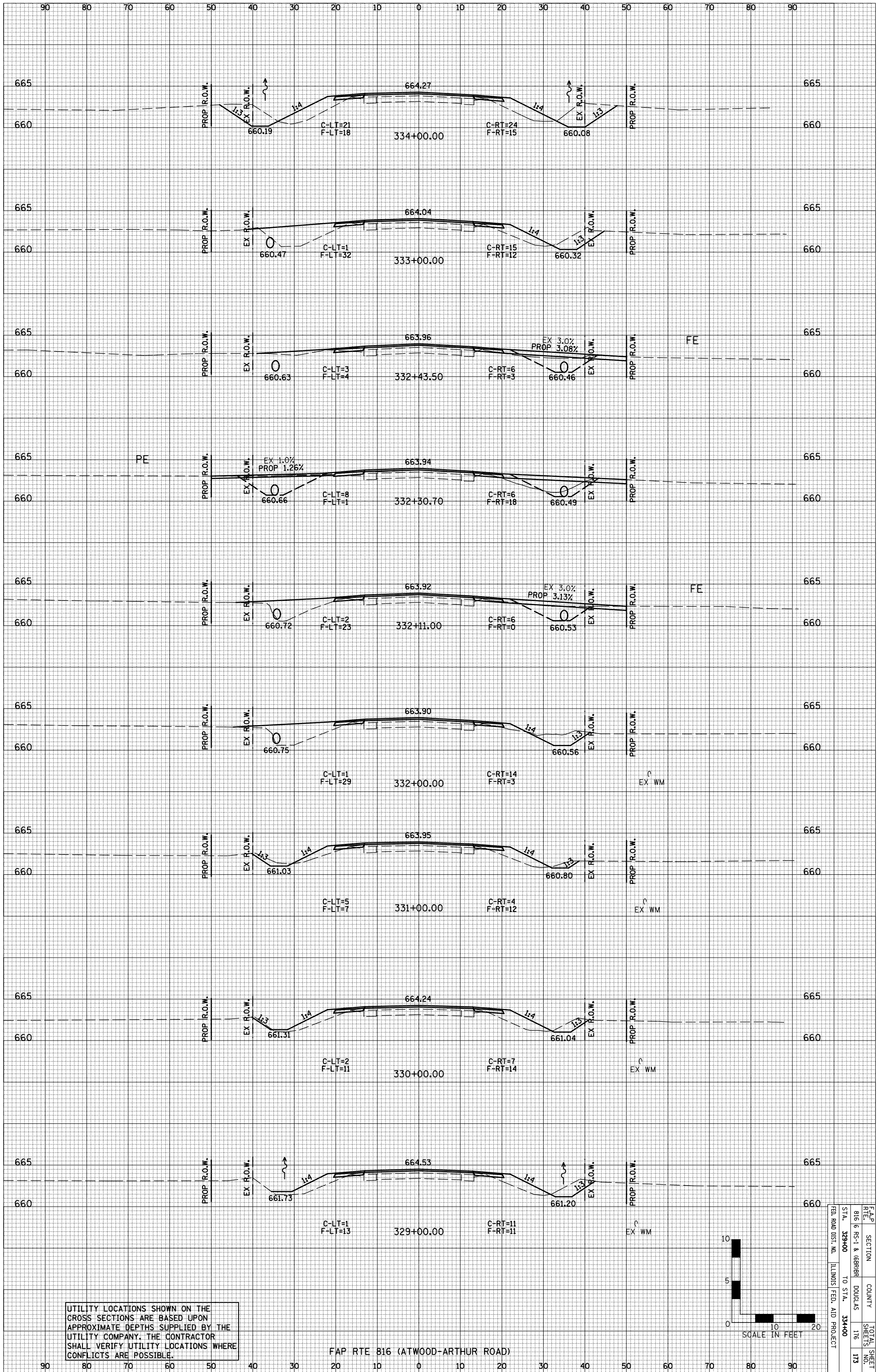


FAP	SECTION	COUNTY	TOTAL SHEET
RTE. 816	RS-1 & 1698R	DOUGLAS	NO. 116
STA. 322+57.75	TO STA. 328+00		112
ILLINOIS FED. AID PROJECT			

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS



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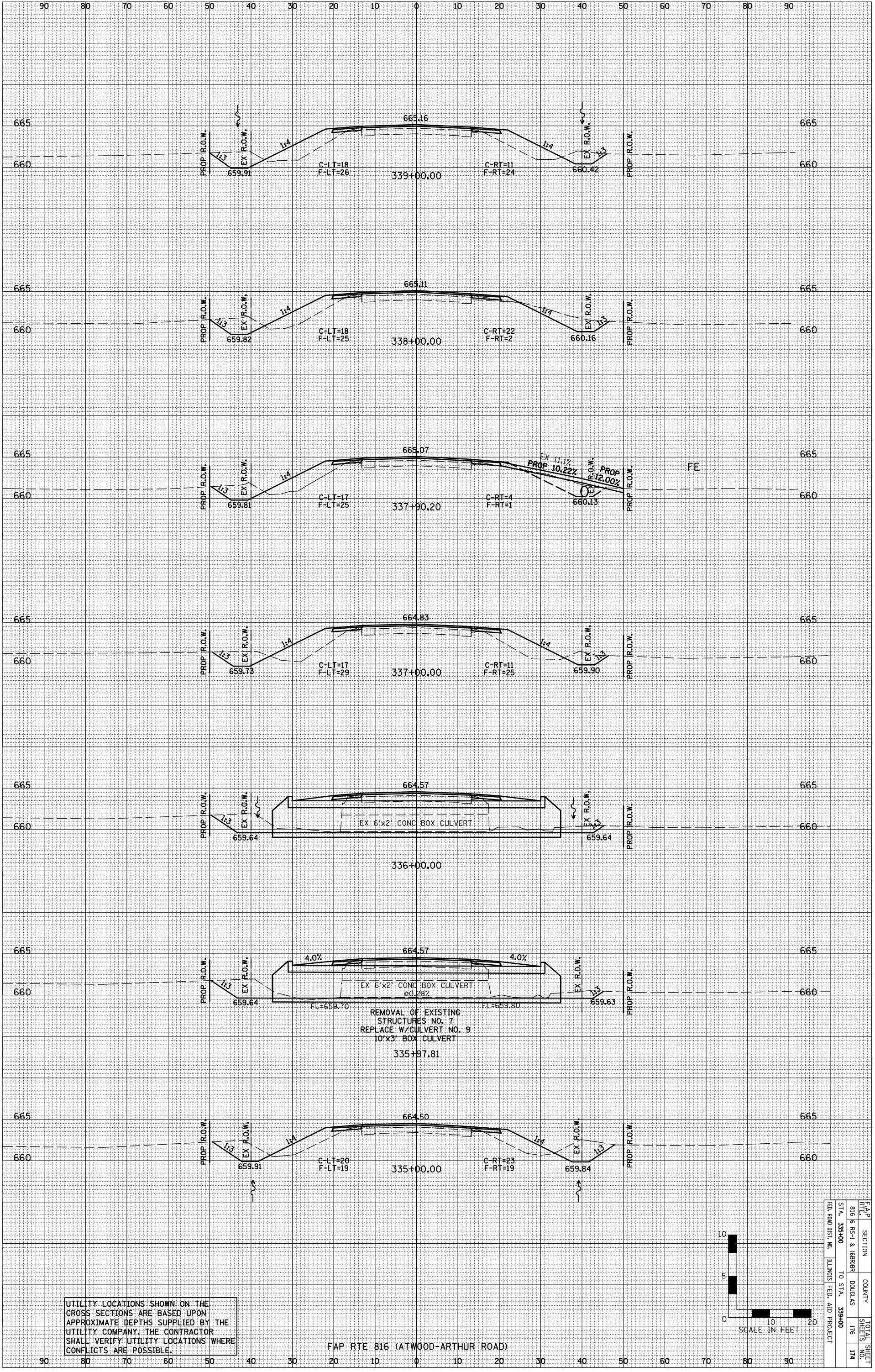
FAP RTE 816 (ATWOOD-ARTHUR ROAD)

FAP	SECTION	COUNTY	TOTAL SHEET
RTE 816	RS-1 & (6898)	DOUGLAS	NO. 173
STA. 329+00	TO STA. 334+00		
ILLINOIS FED. AID PROJECT			

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

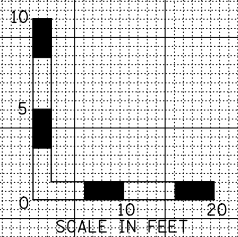
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS



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FAP RTE 816 (ATWOOD-ARTHUR ROAD)

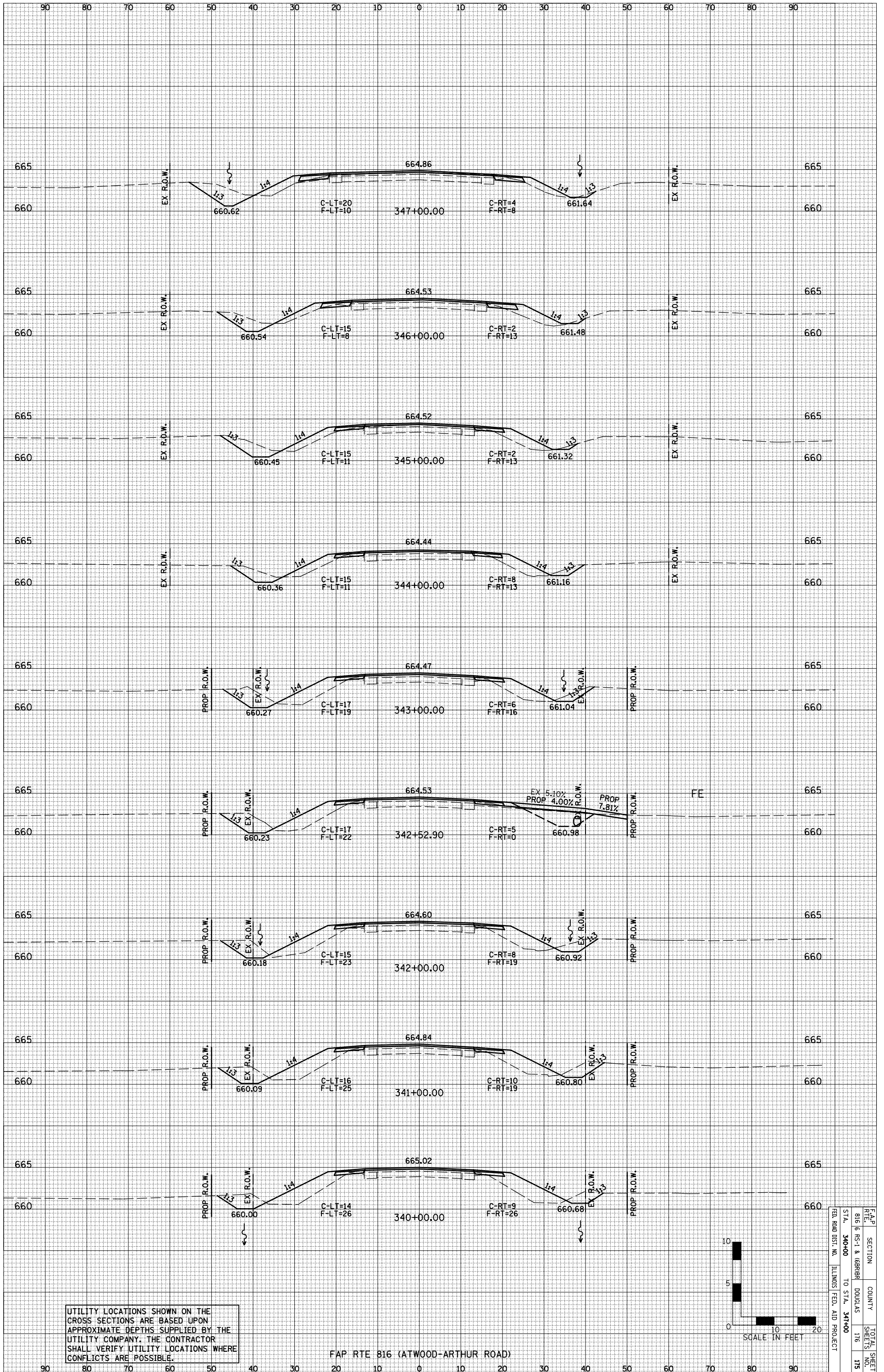


FAP	SECTION	COUNTY	TOTAL SHEET
RTE 816	RS-1 & (6888)	DOUGLAS	176
STA. 335+00	TO STA. 339+00		174
ILLINOIS FED. AID PROJECT			

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

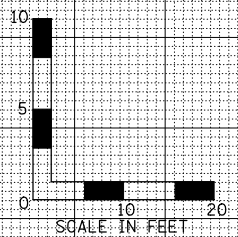
FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS



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FAP RTE 816 (ATWOOD-ARTHUR ROAD)

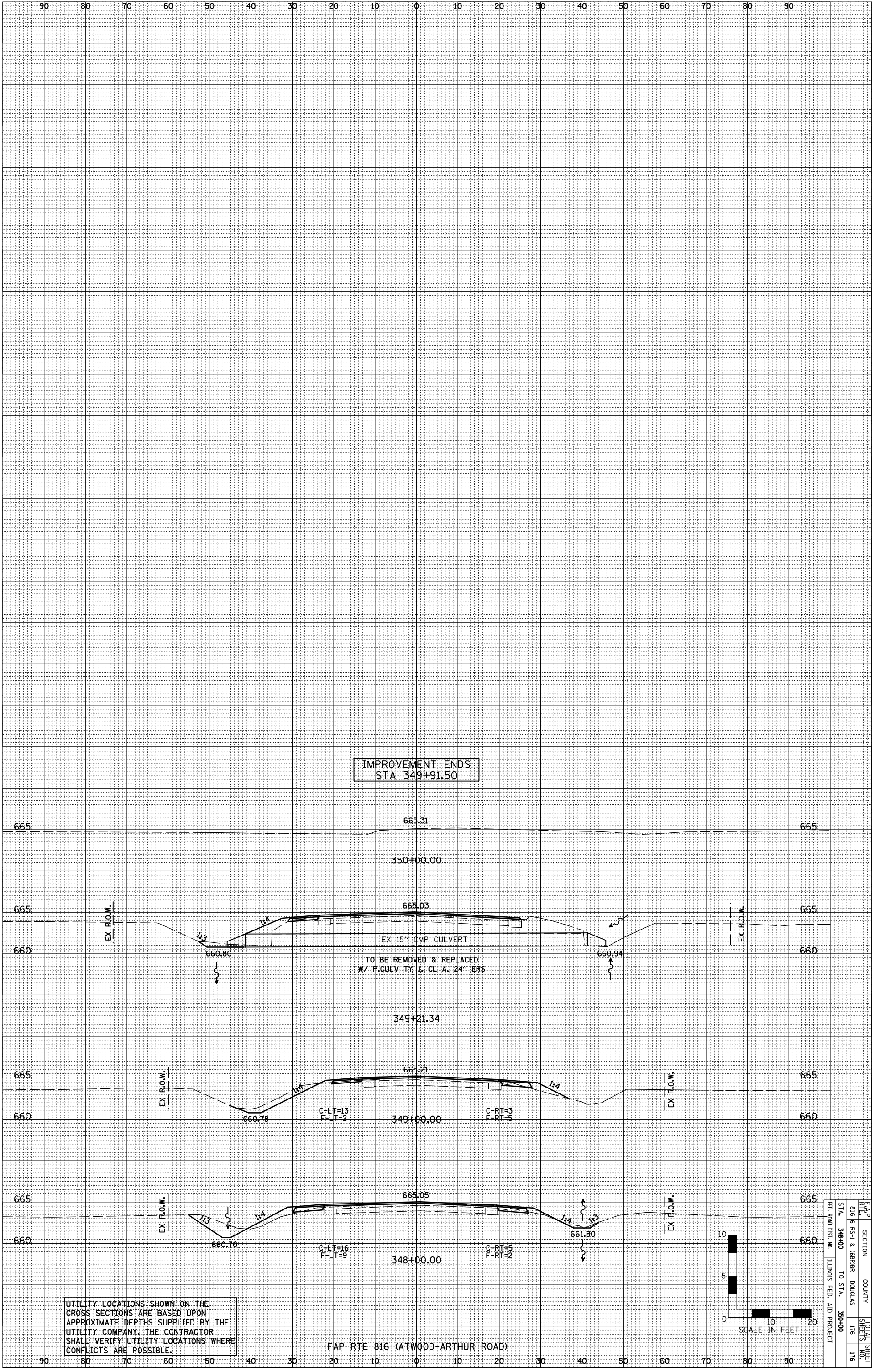


FAP	SECTION	COUNTY	TOTAL SHEET
RTE 816	RS-1 & (6898)	DOUGLAS	176
STA. 340+00	TO STA. 347+00		175
FEED ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		

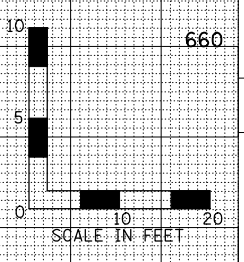
FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS



IMPROVEMENT ENDS
STA 349+91.50

TO BE REMOVED & REPLACED
W/ P.CULV TY 1, CL A, 24" ERS

UTILITY LOCATIONS SHOWN ON THE CROSS SECTIONS ARE BASED UPON APPROXIMATE DEPTHS SUPPLIED BY THE UTILITY COMPANY. THE CONTRACTOR SHALL VERIFY UTILITY LOCATIONS WHERE CONFLICTS ARE POSSIBLE.



FAP RTE 816 (ATWOOD-ARTHUR ROAD)

FAP	SECTION	COUNTY	TOTAL SHEET
RTE 816	RS-1 & (6800)	DOUGLAS	176
STA. 348+00	TO STA. 350+00		176
ILLINOIS FED. AID PROJECT			