

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6RS-1	DOUGLAS	176	1
FED. ROAD DHT. NO.	ILLINOIS	FED. AID PROJECT		
D-95-006-95				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

FAP ROUTE 816 (ATWOOD-ARTHUR ROAD)
SECTION 6RS-1 & (6BR)BR

PROJECT TASK 09-24-01
RESURFACING
DOUGLAS COUNTY
C-95-006-95

FOR INDEX OF SHEETS, SEE SHEET NO. 2

DESIGN DESIGNATION: N.A.

MINOR ARTERIAL
2008ADT = 3100
2028ADT = 3250
PV = 88.7%
SU = 7.7%
MU = 3.6%
DESIGN SPEED 60mph



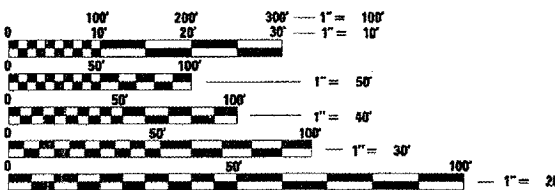
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 8/19 20 08
Joseph E. Gowen
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

October 3, 20 08
Eric E. Harned
ENGINEER OF DESIGN AND ENVIRONMENT

October 3, 20 08
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

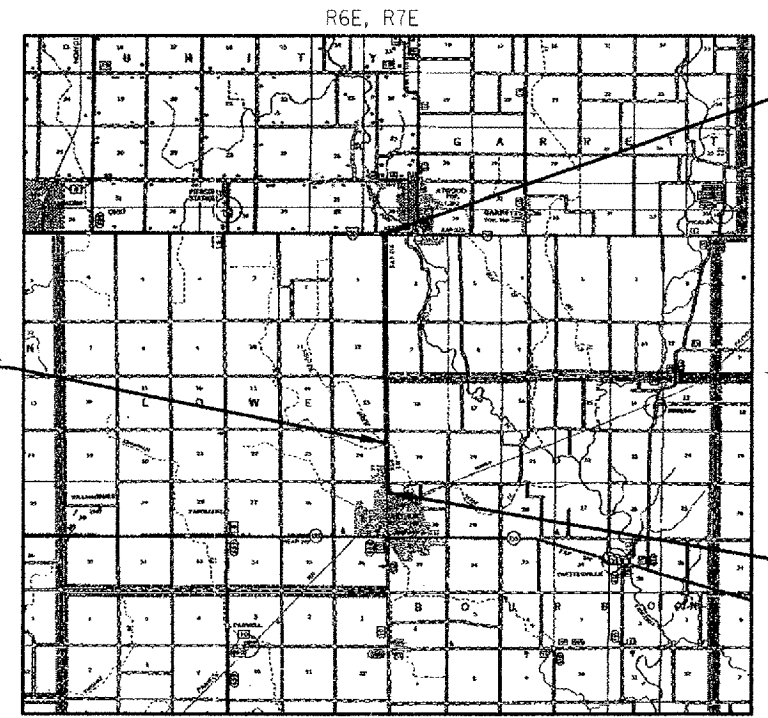


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

FOR UNDERGROUND UTILITY LOCATIONS IN LOWE, GARRETT & BOURBON TOWNSHIPS CALL J.U.L.I.E. TOLL FREE 1-800-892-0123

CONTRACT NO. 90711

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS



LOCATION MAP
APPROXIMATE SCALE

PROJECT ENDS:
STA 349+91.50

PROJECT BEGINS:
STA 100+54

GROSS LENGTH = 24937.50 FT. = 4.723 MILES
NET LENGTH = 24937.50 FT. = 4.723 MILES

Phillip J. Matone 4/30/04
SIGNATURE

EXPIRATION DATE NOV. 30, 2005

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	*	DOUGLAS	176	2
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 90711
 • 6RS-1 & 6BR1BR

INDEX OF SHEETS

1	COVER SHEET
2	INDEX OF SHEETS AND HIGHWAY STANDARD NUMBERS
3	GENERAL NOTES
4	COMMITMENTS
5-7	SUMMARY OF QUANTITIES
8-9	TYPICAL SECTIONS
10-16	SCHEDULE OF QUANTITIES
17-18	SURVEY TIES AND BENCHMARKS
19-35	PLAN & PROFILE SHEETS
36	STRUCTURE 021-0033 PLAN AND PROFILE
37-39	STRUCTURE 021-0033 DETOUR PLAN
40-41	CULVERT STAGE CONSTRUCTION PLAN
42-46A	TEMPORARY EROSION CONTROL PLANS
47-64	RIGHT OF WAY PLANS
65-69	LIGHTING PLAN (SHEET 70 DOES NOT EXIST)
71-73	BOX CULVERT #1 REPLACEMENT (STA 111+42.14)
74-75	BOX CULVERT #2 REPLACEMENT (STA 124+66.56)
76-76A	BOX CULVERT END SECTION DETAIL (STA 144+61.00)
77-79	BOX CULVERT #3 REPLACEMENT (STA 179+95.00)
80-82	BOX CULVERT #4 REPLACEMENT (STA 200+60.56)
83-85	BOX CULVERT #5 REPLACEMENT (STA 251+93.89)
86-88	BOX CULVERT #6 REPLACEMENT (STA 281+71.66)
89-90	BOX CULVERT #7 REPLACEMENT (STA 300+96.63)
91-93	BOX CULVERT #8 REPLACEMENT (STA 322+57.75)
94-96	BOX CULVERT #9 REPLACEMENT (STA 335+97.81)
97-114	DETAILS
115-176	CROSS SECTIONS

HIGHWAY STANDARDS

000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-01	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-04	TEMPORARY EROSION CONTROL SYSTEMS
406201-01	MAILBOX TURNOUT
420001-07	PAVEMENT JOINTS
442201-03	CLASS C AND D PATCHES
542301-01	PRECAST REINFORCED CONCRETE FLARED END SECTION
542306-01	PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTION
542401	METAL END SECTION FOR PIPE CULVERTS
542406	METAL END SECTION FOR PIPE ARCHES
602301-01	INLET, TYPE A
602306-01	INLET, TYPE B
602401-01	MANHOLE, TYPE A
602601-01	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-01	MANHOLE STEPS
604001-02	FRAME AND LIDS, TYPE 1
604036-01	GRATE, TYPE B
606001-03	CONCRETE CURB TYPE B AND COMBINATION CURB AND GUTTER
606401	PAVED DITCH
630001-07	STEEL PLATE BEAM GUARDRAIL
630101-07	GUARDRAIL MOUNTED ON EXISTING CULVERTS
630301-04	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-04	TRAFFIC BARRIER TERMINAL, TYPE 2
635001	DELINEATORS
635006-02	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-01	REFLECTOR MARKER AND MOUNTING DETAILS
666001	RIGHT-OF-WAY MARKERS
667001	DRAINAGE MARKERS
667101	PERMANENT SURVEY MARKERS
701001-01	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 4.5 M (15') AWAY
701006-02	OFF-ROAD OPERATIONS, 2L, 2W, 4.5 M (15') TO 600 MM (24") FROM PAVEMENT EDGE
701011-01	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-02	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701301-02	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-01	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS > 45 MPH
701311-02	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701326-02	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS > 45 MPH
701701-05	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901	TRAFFIC CONTROL DEVICES
720011	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
780001-01	TYPICAL PAVEMENT MARKINGS
781001-02	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 INDEX OF SHEETS
 FAP ROUTE 816
 ATWOOD-ARTHUR RD
 SECTION 6RS-1 & 6BR1BR
 DOUGLAS COUNTY

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

DRAWN BY: JJO
 CHECKED BY: PJM

G.N.-100
 ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

G.N.-105.07
 EXISTING STATE-OWNED AND MAINTAINED UTILITY LINES ARE SHOWN ON THE PLANS TO INDICATE THEIR PRESENCE AND APPROXIMATE LOCATION. THE CONTRACTOR SHALL NOTIFY THE DISTRICT OPERATIONS ENGINEER TWO WEEKS PRIOR TO COMMENCING ANY EXCAVATION IN THE VICINITY OF THESE LINES. THE STATE WILL THEN LOCATE AND MARK THE HORIZONTAL LOCATIONS OF THE LINES AND PROVIDE ANY AVAILABLE INFORMATION AS TO THEIR DEPTH. SHOULD ANY OF THE LINES BE DAMAGED BY THE CONTRACTOR'S OPERATION, THE CONTRACTOR SHALL REPAIR THEM TO THE SATISFACTION OF THE ENGINEER AND AT NO COST TO THE STATE.

ALSO THERE MAY BE UTILITIES PRESENT WHICH WERE INSTALLED BY THE STATE BUT ARE MAINTAINED BY OTHERS (CITY, TOWN, ETC.) THE APPROXIMATE LOCATIONS OF THESE LINES ARE ALSO SHOWN ON THE PLANS ALONG WITH THE NAME OF THE MAINTAINING AGENCY. THE CONTRACTOR SHALL COORDINATE THE LOCATING OF THESE LINES WITH THE LOCAL AGENCY PRIOR TO COMMENCING ANY EXCAVATION OR BORING IN THEIR VICINITY. SHOULD THESE LINES BE DAMAGED BY THE CONTRACTOR'S OPERATIONS, THE CONTRACTOR SHALL REPAIR THEM TO THE SATISFACTION OF, AND AT NO COST TO, THE LOCAL AGENCY AND THE STATE.

G.N.-105.09A
 ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988. (NAVD 88)

G.N.-107.31
 UTILITY LINES WERE PLOTTED FROM INFORMATION FURNISHED BY THE VARIOUS UTILITY COMPANIES INVOLVED (QUALITY LEVEL C &/OR QUALITY LEVEL D) AND THE ACCURACY SHOULD BE CONSIDERED APPROXIMATE ONLY.

UTILITY COMPANIES MAY BE ADJUSTING THEIR FACILITIES DURING CONSTRUCTION. THE CONTRACTOR SHALL COOPERATE WITH THESE ORGANIZATIONS WHILE THESE ADJUSTMENTS ARE BEING PERFORMED. J.U.L.J.E. - JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS SYSTEM (800)892-0123 OR 811.

G.N.-201
 TREES THAT INTERFERE WITH THE CONSTRUCTION OPERATIONS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER. ANY TREE DUE TO ITS LOCATION AND DEEMED SUITABLE FOR SAVING BY THE ENGINEER SHALL BE PROTECTED DURING CLEARING AND SUBSEQUENT CONSTRUCTION OPERATIONS.

G.N.-202
 GRADING SHALL BE DONE BY HAND AROUND LIGHT POLES, UTILITY POLES, SIGN POSTS, SHRUBS, TREES OR OTHER NATURAL OR MAN-MADE OBJECTS WHERE SHALLOW FILLS OR CUTS ARE ADJACENT TO THE ITEMS. IT IS THE INTENT THAT THE LIMITS OF CONSTRUCTION BE SUCH AS TO PRESERVE IN THE ORIGINAL STATE AS MUCH AREA OF TEMPORARY EASEMENTS AS POSSIBLE. THE DECISION AS TO ITEMS TO REMAIN IN PLACE SHALL BE AS DIRECTED BY THE ENGINEER.

THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

G.N.-250C
 TEMPORARY EROSION CONTROL SEEDING IS INCLUDED IN THIS CONTRACT TO SEED NEW EARTH SHOULDERS DURING TIME PERIODS WHEN PERMANENT SEEDING IS NOT ALLOWED. SOME OR ALL OF THE TEMPORARY EROSION CONTROL SEEDING WILL BE DELETED IF IT IS POSSIBLE TO PLACE PERMANENT SEEDING ON EARTH SHOULDERS AT THE TIME OF THEIR COMPLETION.

G.N.-281
 THE RIPRAP GRADATION SHALL BE IN ACCORDANCE WITH THE GRADATION SPECIFIED IN THE PLANS OR, WITH APPROVAL OF THE ENGINEER, A RIPRAP GRADATION MEETING A D50 GREATER THAN OR EQUAL TO 0.5 FEET. D50 IS DEFINED AS THE MEAN ROCK SIZE AS DESCRIBED IN THE FHWA HYDRAULIC ENGINEERING CIRCULARS (HEC 11, HEC 14 AND HEC 15).

IF GRAVEL IS USED FOR THE BEDDING MATERIAL UNDER RIPRAP, THE GRAVEL SHALL BE CRUSHED AS ALLOWED UNDER ARTICLE 1005.01.

G.N.-406
 THE QUANTITIES INCLUDED IN THE PLANS FOR HOT-MIX ASPHALT RESURFACING ARE INTENDED TO GIVE THE COVERAGE SHOWN ON THE TYPICAL CROSS SECTIONS. IT IS NOT INTENDED TO INCREASE THE THICKNESS OF THE HOT-MIX ASPHALT MIXTURE IN ORDER TO USE ALL OF THE QUANTITIES INCLUDED IN THE CONTRACT.

G. N. -406H
 MIXTURE REQUIREMENTS
 THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

LOCATION MIXTURE USE	ATWOOD-ARTHUR RD SURFACE & INCIDENTAL	ATWOOD-ARTHUR RD LEVEL BINDER	ATWOOD-ARTHUR RD HMA SHOULDER (BOTTOM LIFT) & INLAY REPAIR AREA
AC/PG	PG 64-22	PG 64-22	PG 58-22
RAP % (MAX)	15%	25%	30%
DESIGN AIR VOIDS	4.0% @ NDES=50	4.0% @ NDES=50	2.0% @ NDES=30
MIX COMPI GRADATION	IL 9.5	IL 9.5	OTHER
FRICITION AGGREGATE	MIX C	MIX C	N. A.

LOCATION MIXTURE USE	ATWOOD-ARTHUR RD HMA SHOULDER SPECIAL (TOP 1 1/2" & 2 1/4" LIFT)	ATWOOD-ARTHUR RD PATCHING & HMA BASE COURSE
AC/PG	PG 64-22	PG 64-22
RAP % (MAX)	10%	25%
DESIGN AIR VOIDS	4.0% @ NDES=50	4.0% @ NDES=50
MIX COMPI GRADATION	PER SPECIAL PROVISION	IL 19.0
FRICITION AGGREGATE	PER SPECIAL PROVISION	N. A.

G.N.-406.05b
 ALL LEVELING BINDER OR BINDER SHALL BE GIVEN A FOG COAT OF PRIME BEFORE THE SURFACE COURSE IS PLACED WHEN DIRECTED BY THE ENGINEER.

THE FOG COAT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER GALLON FOR BITUMINOUS MATERIAL (PRIME COAT) AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

G.N.-408B
 THE INCIDENTAL HOT-MIX ASPHALT SURFACING SHALL BE COMPACTED AS REQUIRED BY THE SPECIFICATIONS FOR DESIGN NUMBER OF GYRATIONS BEING USED,

AT THE FOLLOWING LOCATIONS:

- T.R. 500N
- T.R. 600N
- T.R. 700N
- T.R. 800N
- T.R. 2300N
- T.R. 2400N
- T.R. 2500N

G.N.-440B
 THE EXISTING TIE BARS BETWEEN THE EXISTING PAVEMENT AND EXISTING MEDIANS, GUTTERS AND/OR COMBINATION CURB AND GUTTERS THAT ARE FOUND SUITABLE FOR REUSE SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY EXISTING TIE BARS THAT ARE FOUND UNSUITABLE TO BE INCORPORATED INTO THE PROPOSED CONSTRUCTION DUE TO EXCESSIVE RUSTING OR DISTRESS SHALL BE REMOVED FLUSH WITH THE FACE OF THE EXISTING CONCRETE AND DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT-OF-WAY IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.

THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE VARIOUS REMOVAL PAY ITEMS AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

G.N.-442B -- PATCHING SCHEDULES
 THE PATCHING SCHEDULES INCLUDED IN THE PLANS REPRESENT THE BEST INFORMATION AVAILABLE AT THE TIME OF COMPLETION OF THE PLANS FOR LETTING. VARIATIONS IN LOCATION AND SIZES OF BOTH FULL-DEPTH AND PARTIAL-DEPTH PATCHES MAY OCCUR.

G.N.-482
 ALL MATERIAL PLACED AS HOT-MIX ASPHALT SHOULDERS SHALL BE COMPACTED TO 94.0 - 98.4 PERCENT OF THE MAXIMUM THEORETICAL DENSITY. THIS REQUIREMENT SHALL APPLY TO IL 9.5L GRADATION SHOULDER MIXES AND OTHER MIXES (BOTTOM LIFT OF SHOULDERS). THIS MAXIMUM DENSITY SHALL BE DETERMINED FROM THE MOVING AVERAGE OF FOUR TESTS AS IN OTHER QC/QA TESTING. A NUCLEAR GAUGE DENSITY/CORE CORRELATION SHALL BE PERFORMED FOR THE IL 9.5L MIXES AND OTHER MIXES USING STANDARD CORRELATION PROCEDURES.

G.N.-540
 THE CONTRACTOR SHALL ASSEMBLE AND MATCH-MARK THE PRECAST BOX CULVERT SECTIONS AND END SECTIONS PRIOR TO SHIPMENT OF THESE COMPONENTS FROM THE MANUFACTURER, AND AS DIRECTED BY THE ENGINEER IN ORDER TO SECURE A PROPER FIT ON EACH JOINT. ANY SECTIONS OR END SECTIONS WHICH DO NOT PROVIDE A PROPER FIT AT THE JOINT SHALL BE REJECTED BY THE ENGINEER AND REPLACED BY THE CONTRACTOR WITH NO ADDITIONAL COMPENSATION BEING ALLOWED.

THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER FOOT FOR PRECAST CONCRETE BOX CULVERTS OF THE SIZE SPECIFIED.

G.N.-542
 BEFORE ORDERING PIPE CULVERTS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR THE EXACT LENGTHS.

G.N.-542.07
 AT LOCATIONS WHERE END SECTIONS ARE SPECIFIED, CAST-IN-PLACE CONCRETE HEADWALLS WILL NOT BE ALLOWED.

G.N.-542B
 ALL THE ENTRANCE CULVERTS LENGTHS SHOWN IN THE PLANS WERE CALCULATED WITH THE ASSUMPTION THAT METAL PIPES AND METAL END SECTION WOULD BE USED.

G.N.-550
 BEFORE ORDERING STORM SEWERS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR THE EXACT LENGTHS.

G.N.-667
 THE RESIDENT ENGINEER SHALL CONTACT THE PROGRAM DEVELOPMENT CHIEF OF SURVEYS PRIOR TO THE PRE-CONSTRUCTION CONFERENCE FOR INSTRUCTION AS TO SETTING OF TEMPORARY OR PERMANENT TIES FOR CENTERLINE ALIGNMENT CONTROL SURVEY MARKERS (PC'S, PT'S, AND PI'S). PROJECT IMPLEMENTATION PERSONNEL WILL BE RESPONSIBLE FOR SETTING THESE MARKERS.

G.N.-703A
 SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO THE PAVEMENT AFTER ANY OF THE FOLLOWING: COLD MILLING AND/OR PLACING BITUMINOUS MATERIALS (PRIME COAT), LEVELING BINDER (MACHINE METHOD), BINDER AND SURFACE COURSES. SHORT TERM PAVEMENT MARKING PLACED ON THE SURFACE, SHALL COINCIDE WITH THE FINAL PAVEMENT STRIPING. SHORT TERM PAVEMENT MARKING PLACED PRIOR TO THE SURFACE SHALL COINCIDE WITH THE EXISTING PAVEMENT MARKINGS. USE 4 FEET PER 40 FEET (OR 10% PER STATION).

G.N.-781
 RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH STANDARD 781001, AND THE DETAILS SHOWN IN THE PLANS. IF THERE IS ANY DISCREPANCY BETWEEN THE STANDARD AND THE DETAILS IN THE PLANS, THE DETAILS IN THE PLANS SHALL GOVERN. THE FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING THE RAISED REFLECTIVE PAVEMENT MARKERS AND THE RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED MIDWAY IN THE 30 FOOT (9 m) SPACE BETWEEN THE DASHED CENTERLINE STRIPES (WHEN APPLICABLE).

G.N.-1004.01
 COARSE AGGREGATE GRADATION CA-10 MAY BE USED WHENEVER COARSE AGGREGATE CA-6 IS SPECIFIED IN THE STANDARD SPECIFICATIONS.

G.N.-Z0038
 AN ALUMINUM TABLET OF THE TYPE SHOWN ON STANDARD 667101 SHALL BE PLACED ON THE PROPOSED STRUCTURE AS DIRECTED BY THE ENGINEER. THE BENCH MARK ELEVATION WILL BE ESTABLISHED AND MARKED BY THE DEPARTMENT. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR PERMANENT BENCH MARKS.

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 GENERAL NOTES
 FAP ROUTE 816
 ATWOOD-ARTHUR RD
 SECTION GRS-1 & (6BR)BR
 DOUGLAS COUNTY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	*	DOUGLAS	176	4
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 90711
 • 6RS-1 & 6BR)BR

COMMITMENTS

Parcel Nos. 5612003TE & 5612004TE - As a result of land acquisition negotiations, the owner, Mr. Phil Kitchen of Kitchen Seed Company (217) 543-3476, requested that one entrance to his business remain open at all times.

Parcel No. 5612008 - As a result of land acquisition negotiations, the owner requested the aggregate to be graded around the asphalt apron.

Parcel No. 5612009 - Contact Ms. Sallie D. Colaco of Ferrell Gas at (816) 792-7811 when the existing identity sign needs to be relocated.

Parcel No. 5612010 - Lt. Sta. 137+75.62 to Lt. Sta. 139+56.08 - As a result of land acquisition negotiations, the following six (6) replacement trees will be provided: 1 Red Maple tree, 1 Sugar Maple tree, 1 European Beech tree, 2 Red Oak trees, and 1 Cleveland Select Pear tree.

Parcel Nos. 5612019 & 5612029 - Sta. Rt. 159+33.78 to Sta. Rt. 224+98.40 - During construction please contact Mr. Larry Yoder at (217) 254-0994 and Mr. Bill Crane at (217) 543-2568 when cutting the ditch in front of Mr. Jones property. Also, four (4) trees are to be provided as replacement trees. Two (2) Pin Oak trees and two (2) Japanese Flowering Crabapple trees.

Parcel No. 5612021 - As a result of land acquisition negotiations, four (4) October Glory Maple trees are to be provided as replacement trees.

Parcel No. 5612022 - Lt. Sta. 166+52.98 to Lt. Sta. 169+02.09 - As a result of land acquisition negotiations, do not disturb the existing sump pump drain which drains into the existing ditch. Also, four (4) Colorado Spruce trees are to be provided as replacement trees.

Parcel No. 5612024 - As a result of land acquisition negotiations, four (4) Colorado Spruce trees are to be provided as replacement trees.

Parcel Nos. 5612026 & 5612050 - As a result of land acquisition negotiations, please notify Mr. Richard Beachy at (217) 543-3134 when it is time for him to relocate his existing fence located in the acquisition area on these two properties.

Parcel No. 5612027 - As a result of right of way negotiations, the following commitments have been made:

-A right-of-way marker will be placed per specifications at 50 feet right, station 211+73.

-A right-of-way marker will be placed per specifications just inside the right-of-way line at right station 198+82.59.

-A concrete drainage marker will be placed just inside the right-of-way line at the field tile inspection riser location near right station 200+40.

-The field tile inspection riser near right station 200+40 will be made of P.C.C. concrete, per District 5 Detail No. 61101011A "Field Tile Systems, (Treatment of Existing)."

-An inspection riser will be placed on the west side of Arthur-Atwood road at the junction of this same field tile and the right-of-way line according to the same detail. This inspection well will be noted on the "As Built" plans with a notation as to the direction of the outfall pipe.

-The property owner will be compensated for the replacement of 10 feet of a Roadside for Wildlife grass strip (this was taken care of as part of the land acquisition process).

-A copy of the appropriate As Built plan sheets will be provided to Mr. Ohlsen after their completion.

Parcel No. 5612030 - Sta. Lt. 224+27.94 to Sta. Lt. 237+47.99 As a result of land acquisition negotiations, the following ten (10) replacement trees will be provided: two (2) Red Oak trees, six (6) Colorado Spruce trees, and two (2) Autumn Applause White Ash trees. For the location of the trees on the school property, please contact Mr. Wilson at (217) 543-2511. 5-22-08 Revision - Due to the moratorium on use of Ash Trees (BDE PM 62-08), Mr. Wilson has selected two (2) Colorado Spruce trees to replace the Ash trees previously requested.

Parcel Nos. 5612032 & 5612034 - As a result of right of way negotiations the following field entrance changes will be made. The field entrance located at Sta. Lt. 244+00 will be moved to Sta. Lt. 237+86.20 +/- . The field entrance located at Sta. Lt. 250+96.10 will be moved to the property line that is located at Sta. Lt. 250+65.02. Both entrances are to be 24' in width.

Parcel No. 5612035 - As a result of land acquisition negotiations, a drop inlet with an elbow shall be placed at approximately station 251+94, 25 feet right. Contact Mr. Steve Jurgens at (217) 543-2044 for additional information.

Parcel No. 5612036 - Sta. 264+76.07 to Sta. 281+03.59 - As a result of land acquisition negotiations, please contact Mr. Jonathan Norvell, University of Illinois Farm Manager at (217) 244-1707 if a construction field easement is required. All proposed work should take place within the proposed right-of-way limits. During construction, provisions for ingress and egress to the property should be made to allow the owners/farmers access to fields for farming purposes. Any existing field tile encountered on right-of-way will be treated per the methods proposed in the "Detail for Treatment of Existing Field Tile Systems" of the plans and any field tile damaged by the proposed construction will be repaired and/or replaced per the same standards.

Parcel No. 5612038 - Sta. 277+17.10 to Sta. 303+78.39 -

As a result of land acquisition negotiations, please contact Mr. Jonathan Norvell, University of Illinois Farm Manager at (217) 244-1707 if a construction field easement is required. All proposed work should take place within the proposed right-of-way limits. During construction, provisions for ingress and egress to the property should be made to allow the owners/farmers access to fields for farming purposes. Any existing field tile encountered on the right-of-way will be treated per the methods proposed in the "Detail for Treatment of Existing Field Tile Systems" of the plans and any field tile damaged by the proposed construction will be repaired and/or replaced per the same standards. The existing field entrance at Sta. 290+68.50 is to be relocated to the northern end of the property. The new 24' field entrance will be located at approximate station 303+46.

Parcel No. 5612041 - As a result of land acquisition negotiations, replace the existing concrete driveway located at left, station 326+43.40 with a new concrete driveway.

Parcel No. 5612045 - As a result of land acquisition negotiations, a new pipe culvert is to be placed under the entrance and extend north in front of the tree located north of the driveway within the proposed right-of-way. The tree shall not be disturbed during construction.

Parcel No. 5612048 - As a result of land acquisition negotiations, Mr. Hugh Rankin (owner) requested that his tenant farmer, Mr. Henry Rahn, be notified one day prior to excavating the exploration trench on his property. Mr. Rahn would like to be present during the excavation to provide information regarding drainage tile that may not be shown on the plans. Mr. Rahn's phone number is (217) 578-3243.

Parcel No. 5612051 - Sta. 139+55.78 to Sta. 141+31.04 - As a result of land acquisition negotiations, two (2) October Glory Red Maple trees will be provided as replacement trees.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
COMMITMENTS
 FAP ROUTE 816
 ATWOOD-ARTHUR RD
 SECTION 6RS-1 & 6BR)BR
 DOUGLAS COUNTY

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

DRAWN BY: JJO
 CHECKED BY: PJM

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	*	DOUGLAS	176	5
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 90711
 * 6RS-1 & 1600100

100%
FED.

100% FED

CODE NO	ITEM	UNIT	TOTAL QUANTITY	RURAL	S.N.
				TWO-LANE ROADWAY	021-2025 STA. 144+61
				1000-2A	X028-2A
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	44.0	44.0	0.0
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	180.0	180.0	0.0
20200100	EARTH EXCAVATION	CU YD	26,359.0	24,243.0	2116.0
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	196.0	196.0	0.0
20400800	FURNISHED EXCAVATION	CU YD	11,561.0	11,561.0	0.0
20700300	POROUS GRANULAR EMBANKMENT, SPECIAL	TON	405.0	405.0	0.0
20800150	TRENCH BACKFILL	CU YD	128.0	128.0	0.0
20900110	POROUS GRANULAR BACKFILL	CU YD	806.0	317.0	489.0
21301052	EXPLORATION TRENCH 52" DEPTH	FOOT	34,917.0	34,917.0	0.0
25000200	SEEDING, CLASS 2	ACRE	28.0	28.0	0.0
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	2,523.0	2,433.0	90.0
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	2,523.0	2,433.0	90.0
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	2,523.0	2,433.0	90.0
25100115	MULCH, METHOD 2	ACRE	27.0	27.0	0.0
25100630	EROSION CONTROL BLANKET	SD YD	1,780.0	175.0	1605.0
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	2,801.0	2,701.0	100.0
28000300	TEMPORARY DITCH CHECKS	EACH	50.0	50.0	0.0
28000400	PERIMETER EROSION BARRIER	FOOT	1,465.0	1,225.0	240.0
28000500	INLET AND PIPE PROTECTION	EACH	81.0	81.0	0.0
28100705	STONE DUMPED RIPRAP, CLASS A3	SQ YD	540.0	0.0	540.0
35101400	AGGREGATE BASE COURSE, TYPE B	TON	542.0	481.0	61.0
35600712	HOT-MIX ASPHALT BASE COURSE WIDENING, 9"	SQ YD	197.0	197.0	0.0
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	1,400.0	1,400.0	0.0
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	135.0	135.0	0.0
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	21,931.0	21,903.0	28.0
40600300	AGGREGATE (PRIME COAT)	TON	291.0	291.0	0.0
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	3,071.0	3,060.0	11.0
40600895	CONSTRUCTING TEST STRIP	EACH	1.0	1.0	0.0
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	598.0	598.0	0.0
40600990	TEMPORARY RAMP	SQ YD	151.0	151.0	0.0
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	6,194.0	6,192.0	2.0
40800010	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	734.0	734.0	0.0
40800030	AGGREGATE (PRIME COAT)	TON	7.9	7.9	0.0
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	438.0	438.0	0.0

* SPECIALTY ITEMS

CODE NO	ITEM	UNIT	TOTAL QUANTITY	RURAL	S.N.
				TWO-LANE ROADWAY	021-2025 STA. 144+61
				1000-2A	X028-2A
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	35.0	35.0	0.0
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	5,145.0	5,145.0	0.0
44000196	HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL	SQ YD	490.0	490.0	0.0
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	198.0	198.0	0.0
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	14.0	14.0	0.0
44004250	PAVED SHOULDER REMOVAL	SQ YD	77.0	0.0	77.0
44201717	CLASS D PATCHES, TYPE II, 6 INCH	SQ YD	232.0	232.0	0.0
44201721	CLASS D PATCHES, TYPE III, 6 INCH	SQ YD	94.0	94.0	0.0
44201723	CLASS D PATCHES, TYPE IV, 6 INCH	SQ YD	192.0	192.0	0.0
44201777	CLASS D PATCHES, TYPE II, 11 INCH	SQ YD	476.0	476.0	0.0
44201781	CLASS D PATCHES, TYPE III, 11 INCH	SQ YD	52.0	52.0	0.0
44201783	CLASS D PATCHES, TYPE IV, 11 INCH	SQ YD	616.0	616.0	0.0
48203100	HOT-MIX ASPHALT SHOULDERS	TON	8,174.0	8,148.0	26.0
48203105	HOT-MIX ASPHALT SHOULDERS, SPECIAL	TON	3,585.0	3,579.0	6.0
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1.0	0.0	1.0
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1.0	1.0	0.0
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1.0	1.0	0.0
50100500	REMOVAL OF EXISTING STRUCTURES NO. 3	EACH	1.0	1.0	0.0
50100600	REMOVAL OF EXISTING STRUCTURES NO. 4	EACH	1.0	1.0	0.0
50100700	REMOVAL OF EXISTING STRUCTURES NO. 5	EACH	1.0	1.0	0.0
50100800	REMOVAL OF EXISTING STRUCTURES NO. 6	EACH	1.0	1.0	0.0
50100900	REMOVAL OF EXISTING STRUCTURES NO. 7	EACH	1.0	1.0	0.0
50105220	PIPE CULVERT REMOVAL	FOOT	3,044.0	2,792.0	252.0
51500100	NAME PLATES	EACH	4.0	3.0	1.0
54001000	BOX CULVERT END SECTIONS	EACH	2.0	0.0	2.0
54001001	BOX CULVERT END SECTION, CULVERT NO.1	EACH	2.0	2.0	0.0
54001002	BOX CULVERT END SECTION, CULVERT NO.2	EACH	2.0	2.0	0.0
54001003	BOX CULVERT END SECTION, CULVERT NO.3	EACH	2.0	2.0	0.0
54001004	BOX CULVERT END SECTION, CULVERT NO.4	EACH	2.0	2.0	0.0
54001005	BOX CULVERT END SECTION, CULVERT NO.5	EACH	2.0	2.0	0.0
54001006	BOX CULVERT END SECTION, CULVERT NO.6	EACH	2.0	2.0	0.0
54001007	BOX CULVERT END SECTION, CULVERT NO.7	EACH	2.0	2.0	0.0
54001008	BOX CULVERT END SECTION, CULVERT NO.8	EACH	2.0	2.0	0.0
54001009	BOX CULVERT END SECTION, CULVERT NO.9	EACH	2.0	2.0	0.0

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SUMMARY OF QUANTITIES
 FAP ROUTE 816
 ATWOOD-ARTHUR RD
 SECTION 6RS-1 & (6BR)BR
 DOUGLAS COUNTY

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

DRAWN BY: JJO
 CHECKED BY: PJM

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	*	DOUGLAS	176	6
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 90711
 • 6RS-1 & 6BR/BR

100% FED

100% FED

CODE NO	ITEM	UNIT	TOTAL QUANTITY	RURAL TWO-LANE ROADWAY		S.N. 021-2025 STA. 144+61	
				1000-2A	X028-2A		
54010302	PRECAST CONCRETE BOX CULVERT 3' X 2'	FOOT	32.0	32.0	0.0		
54020302	PRECAST CONCRETE BOX CULVERT 3' X 2' (M273)	FOOT	50.0	50.0	0.0		
54020502	PRECAST CONCRETE BOX CULVERT 5' X 2' (M273)	FOOT	150.0	150.0	0.0		
54020702	PRECAST CONCRETE BOX CULVERT 7' X 2' (M273)	FOOT	50.0	50.0	0.0		
54021003	PRECAST CONCRETE BOX CULVERT 10' X 3' (M273)	FOOT	124.0	124.0	0.0		
54021212	PRECAST CONCRETE BOX CULVERT 12' X 12' (M273)	FOOT	168.0	0.0	168.0		
54213450	END SECTIONS 15"	EACH	16.0	16.0	0.0		
54213453	END SECTIONS 18"	EACH	36.0	36.0	0.0		
54213456	END SECTIONS 21"	EACH	16.0	14.0	2.0		
54213459	END SECTIONS 24"	EACH	3.0	3.0	0.0		
54213471	END SECTIONS 36"	EACH	4.0	2.0	2.0		
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	2.0	2.0	0.0		
54214290	END SECTIONS, EQUIVALENT ROUND-SIZE 15"	EACH	2.0	2.0	0.0		
54214293	END SECTIONS, EQUIVALENT ROUND-SIZE 18"	EACH	10.0	10.0	0.0		
54214296	END SECTIONS, EQUIVALENT ROUND-SIZE 21"	EACH	4.0	4.0	0.0		
54214299	END SECTIONS, EQUIVALENT ROUND-SIZE 24"	EACH	16.0	16.0	0.0		
54214305	END SECTIONS, EQUIVALENT ROUND-SIZE 30"	EACH	1.0	1.0	0.0		
54214500	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 15"	EACH	2.0	2.0	0.0		
5421C018	PIPE CULVERTS, CLASS C, TYPE 1 18" (TEMPORARY)	FOOT	360.0	360.0	0.0		
54248510	CONCRETE COLLAR	CU YD	3.6	3.6	0.0		
542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	40.0	40.0	0.0		
542A5470	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 15"	FOOT	35.0	35.0	0.0		
542A5479	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 24"	FOOT	83.0	83.0	0.0		
542D0217	PIPE CULVERTS, CLASS D, TYPE 1 12"	FOOT	9.0	9.0	0.0		
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	685.0	685.0	0.0		
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	938.0	938.0	0.0		
542D0226	PIPE CULVERTS, CLASS D, TYPE 1 21"	FOOT	312.0	312.0	0.0		
542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	76.0	76.0	0.0		
542D0241	PIPE CULVERTS, CLASS D, TYPE 1 36"	FOOT	190.0	60.0	130.0		
542D1066	PIPE CULVERTS, CLASS D, TYPE 2 21"	FOOT	90.0	0.0	90.0		
542D5470	PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 15"	FOOT	80.0	80.0	0.0		
542D5473	PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 18"	FOOT	610.0	610.0	0.0		
542D5476	PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 21"	FOOT	131.0	131.0	0.0		
542D5479	PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 24"	FOOT	408.0	408.0	0.0		

CODE NO	ITEM	UNIT	TOTAL QUANTITY	RURAL TWO-LANE ROADWAY		S.N. 021-2025 STA. 144+61	
				1000-2A	X028-2A		
542D5485	PIPE CULVERTS, CLASS D, TYPE 1 EQUIVALENT ROUND-SIZE 30"	FOOT	48.0	48.0	0.0		
56400100	FIRE HYDRANTS TO BE MOVED	EACH	3.0	3.0	0.0		
60100915	PIPE DRAINS 6"	FOOT	100.0	100.0	0.0		
60100925	PIPE DRAINS 8"	FOOT	50.0	50.0	0.0		
60100935	PIPE DRAINS 10"	FOOT	50.0	50.0	0.0		
60100945	PIPE DRAINS 12"	FOOT	50.0	50.0	0.0		
60100955	PIPE DRAINS 15"	FOOT	50.0	50.0	0.0		
60100965	PIPE DRAINS 18"	FOOT	50.0	50.0	0.0		
60219000	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	4.0	4.0	0.0		
60221700	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 8 GRATE	EACH	1.0	1.0	0.0		
60240301	INLETS, TYPE B, TYPE 8 GRATE	EACH	8.0	8.0	0.0		
60255500	MANHOLES TO BE ADJUSTED	EACH	1.0	1.0	0.0		
60260100	INLETS TO BE ADJUSTED	EACH	2.0	2.0	0.0		
60266600	VALVE BOXES TO BE ADJUSTED	EACH	4.0	4.0	0.0		
60500060	REMOVING INLETS	EACH	3.0	3.0	0.0		
60500090	REMOVING INLETS TO MAINTAIN FLOW	EACH	8.0	8.0	0.0		
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	14.0	14.0	0.0		
61100605	MISCELLANEOUS CONCRETE	CU YD	9.1	9.1	0.0		
61101007	STORM SEWERS PROTECTED, CLASS A, 6"	FOOT	50.0	50.0	0.0		
61101009	STORM SEWERS PROTECTED, CLASS A, 8"	FOOT	50.0	50.0	0.0		
61101011	STORM SEWERS PROTECTED, CLASS A, 10"	FOOT	50.0	50.0	0.0		
61101013	STORM SEWERS PROTECTED, CLASS A, 12"	FOOT	50.0	50.0	0.0		
61101017	STORM SEWERS PROTECTED, CLASS A, 15"	FOOT	50.0	50.0	0.0		
61101020	STORM SEWERS PROTECTED, CLASS A, 18"	FOOT	50.0	50.0	0.0		
61133100	FIELD TILE JUNCTION VAULTS, 2' DIA.	EACH	100.0	100.0	0.0		
61133200	FIELD TILE JUNCTION VAULTS, 3' DIA.	EACH	20.0	20.0	0.0		
61139900	STORM SEWERS, SPECIAL 6"	FOOT	1,500.0	1,500.0	0.0		
61140000	STORM SEWERS, SPECIAL 8"	FOOT	1,000.0	1,000.0	0.0		
61140100	STORM SEWERS, SPECIAL 10"	FOOT	1,000.0	1,000.0	0.0		
61140200	STORM SEWERS, SPECIAL 12"	FOOT	500.0	500.0	0.0		
61140400	STORM SEWERS, SPECIAL 15"	FOOT	100.0	100.0	0.0		
61140600	STORM SEWERS, SPECIAL 18"	FOOT	100.0	100.0	0.0		
63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	327.5	0.0	327.5		
63000005	STEEL PLATE BEAM GUARD RAIL, TYPE B	FOOT	100.0	0.0	100.0		

* SPECIALTY ITEMS

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SUMMARY OF QUANTITIES
 FAP ROUTE 816
 ATWOOD-ARTHUR RD
 SECTION 6RS-1 & (6BR)BR
 DOUGLAS COUNTY

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	*	DOUGLAS	176	7
STA. TO STA.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

CONTRACT NO. 90711
 * 6RS-1 & 16BR)BR

100% FED

100% FED

CODE NO	ITEM	UNIT	TOTAL QUANTITY	RURAL TWO-LANE ROADWAY	
				I000-2A	S.N. 021-2025 STA. 144+61 X028-2A
*6300025	STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES	FOOT	85.0	.0	85.0
*6310045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1.0	0.0	1.0
*63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	2.0	0.0	2.0
63200310	GUARDRAIL REMOVAL	FOOT	268.0	0.0	268.0
*63300725	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	50.0	0.0	50.0
63500105	DELINEATORS	EACH	115.0	115.0	0.0
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	67.0	67.0	0.0
66700705	FURNISHING AND ERECTING DRAINAGE MARKERS	EACH	1.0	1.0	0.0
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	8.0	8.0	0.0
67100100	MOBILIZATION	L SUM	1.0	1.0	0.0
67201000	SEALING ABANDONED WATER WELLS	EACH	1.0	1.0	0.0
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1.0	1.0	0.0
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1.0	1.0	0.0
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1.0	1.0	0.0
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1.0	1.0	0.0
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	15.0	15.0	0.0
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	9,215.0	9,215.0	0.0
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	56,110.0	56,110.0	0.0
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	48.0	48.0	0.0
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	20,384.0	20,384.0	0.0
*78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	57,510.0	57,510.0	0.0
*78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	50.0	50.0	0.0
*78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	355.0	355.0	0.0
*78200405	GUARDRAIL MARKERS	EACH	8.0	0.0	8.0
*78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	2.0	0.0	2.0
*81021550	CONDUIT, AUGERED 2" DIA., PVC	FOOT	176.0	176.0	0.0
*81603000	UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	447.0	447.0	0.0
*81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	241.0	241.0	0.0
*82103900	LUMINAIRE, SODIUM VAPOR, MULTI-MOUNT, 250 WATT	EACH	3.0	3.0	0.0
*83052600	LIGHT POLE, FIBERGLASS ANCHOR BASE, 45 FT. M.H., TENON MOUNT	EACH	3.0	3.0	0.0
*83600300	LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	18.0	18.0	0.0
*83800650	BREAKAWAY DEVICE, COUPLING, WITH STAINLESS STEEL SCREEN	EACH	12.0	12.0	0.0
*84200600	REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE	EACH	8.0	8.0	0.0
*A2001016	TREE, ACER RUBRUM (RED MAPLE), 2" CALIPER, BALLED AND BURLAPPED	EACH	1.0	1.0	0.0

* SPECIALTY ITEMS

CODE NO	ITEM	UNIT	TOTAL QUANTITY	RURAL TWO-LANE ROADWAY	
				I000-2A	S.N. 021-2025 STA. 144+61 X028-2A
*A2001116	TREE, ACER RUBRUM OCTOBER GLORY (OCTOBER GLORY RED MAPLE), 2" CALIPER, BALLED AND BURLAPPED	EACH	6.0	6.0	0.0
*A2001716	TREE, ACER SACCHARUM (SUGAR MAPLE), 2" CALIPER, BALLED AND BURLAPPED	EACH	1.0	1.0	0.0
*A2006916	TREE, QUERCUS PALUSTRIS (PIN OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	2.0	2.0	0.0
*A2007116	TREE, QUERCUS RUBRA (RED OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	4.0	4.0	0.0
*A2015990	TREE, FAGUS SYLVATICA, EUROPEAN BEECH, 1-1/2" BALLED AND BURLAPPED	EACH	1.0	1.0	0.0
*B0237351	TREE, PYRUS CALLERYANA CLEVELAND (CLEVELAND SELECT CALLERY PEAR), 6' HEIGHT, TREE FORM, BALLED AND BURLAPPED	EACH	1.0	1.0	0.0
*B2003416	TREE, MALUS FLORIBUNDA (JAPANESE FLOWERING CRABAPPLE), 2" CALIPER, TREE FORM, BALLED AND BURLAPPED	EACH	2.0	2.0	0.0
*D2002124	EVERGREEN, PICEA PUNGENS (COLORADO SPRUCE), 2' HEIGHT, BALLED AND BURLAPPED	EACH	16.0	16.0	0.0
X0324952	DETOUR SIGNING	L SUM	1.0	0.0	1.0
X4401705	PARTIAL DEPTH REMOVAL	SQ YD	122.0	122.0	0.0
X4420132	CLASS D PATCHES (SPECIAL)	SQ YD	230.0	0.0	230.0
X4421000	PARTIAL DEPTH PATCHING	TON	41.0	41.0	0.0
XZ193400	SURVEY MARKER, TYPE 2 (SPECIAL)	EACH	6.0	6.0	0.0
Z0038700	PERMANENT BENCH MARKS	EACH	1.0	0.0	1.0
Z0055300	RUMBLE STRIP	EACH	3.0	3.0	0.0
Z0070100	SURVEY MONUMENT COVER ASSEMBLY	EACH	13.0	13.0	0.0

REVISIONS	
NAME	DATE

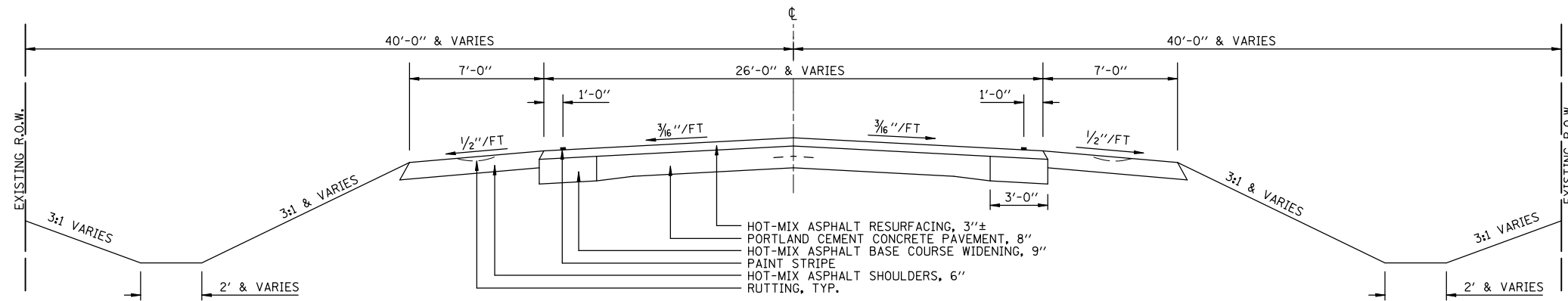
ILLINOIS DEPARTMENT OF TRANSPORTATION
 SUMMARY OF QUANTITIES
 FAP ROUTE 816
 ATWOOD-ARTHUR RD
 SECTION 6RS-1 & 16BR)BR
 DOUGLAS COUNTY

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	•	DOUGLAS	176	8
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 90711				
• 6RS-1 & (6BR)BR				

EXISTING TYPICAL CROSS SECTION

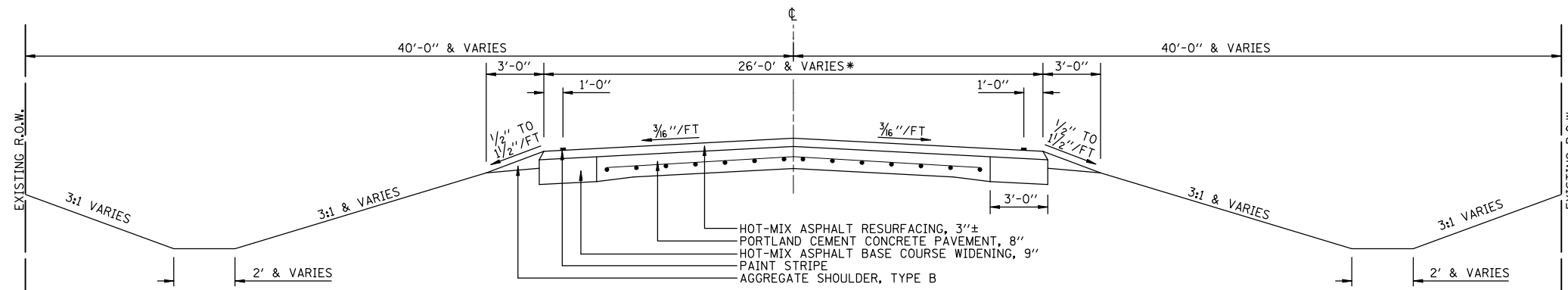
STA. 100+54.0 TO STA. 159+31.0



BRIDGE OMISSION
STA 144+46.70 TO STA 144+76.69

EXISTING TYPICAL CROSS SECTION

STA. 159+31.0 TO STA. 349+91.5.0



* PAVEMENT WIDTH TYPICALLY 26 FT
STA. 159+31 TO STA. 345+10.
PAVEMENT WIDTH VARIES
STA. 345+10 TO STA. 349+91.50
AT THE INTERSECTION OF US RTE 36

REVISIONS	
NAME	DATE

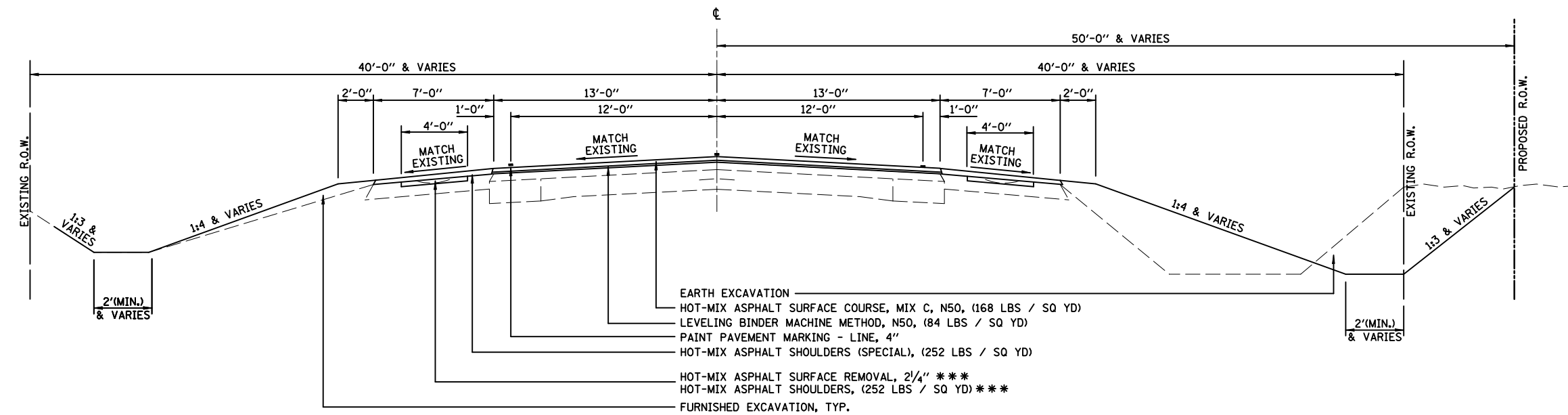
ILLINOIS DEPARTMENT OF TRANSPORTATION
EXISTING TYPICAL SECTIONS
FAP ROUTE 816
ATWOOD-ARTHUR RD
SECTION 6RS-1 & (6BR)BR
DOUGLAS COUNTY

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816		DOUGLAS	176	9
STA. TO STA.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 90711		• 6RS-1 & (6BR)BR		

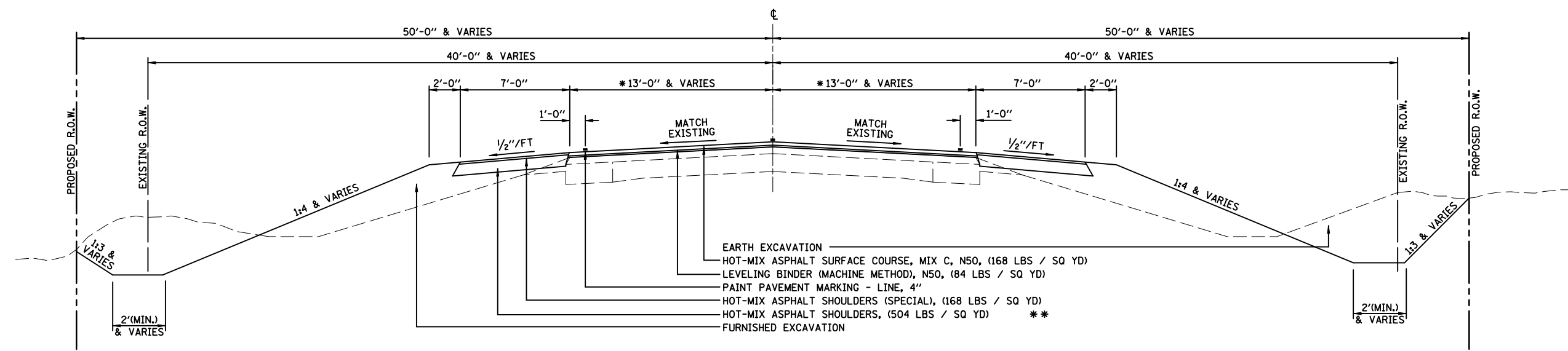
PROPOSED TYPICAL CROSS SECTION ①

STA. 100+54.0 TO STA. 159+31.0 ②



PROPOSED TYPICAL CROSS SECTION ②

① STA. 159+31.0 TO STA. 349+91.5



* PAVEMENT WIDTH TYPICALLY 26 FT
STA. 159+31 TO STA. 345+10.
PAVEMENT WIDTH VARIES
STA. 345+10 TO STA. 349+91.50
AT THE INTERSECTION OF US RTE 36

** FROM STA. 159+31.00 TO STA. 345+10.00
HOT-MIX ASPHALT SHOULDERS
SHALL BE 504 LBS/SQ YD OR 4 1/2"
FROM STA. 345+10 TO STA. 349+91.5
HOT-MIX ASPHALT SHOULDERS
SHALL BE 728 LBS/SQ YD OR 6 1/2"

*** MILL AND FILL SHOULDER RUT
LT STA. 100+54 TO LT STA. 157+95
RT STA. 100+54 TO RT STA. 158+89

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PROPOSED TYPICAL SECTIONS
FAP ROUTE 816
ATWOOD-ARTHUR RD
SECTION 6RS-1 & (6BR)BR
DOUGLAS COUNTY
SCALE: VERT.
HORIZ.
DATE: 11/24/03
DRAWN BY: JJO
CHECKED BY: PJM

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	*	DOUGLAS	176	10

STA. TO STA.
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

CONTRACT NO. 90711
 * 6RS-1 & (6BR)BR

EARTHWORK	LOCATION	STATION TO STATION	EARTH EXCAVATION (CU. YD.)		EMBANKMENT (CU. YD.)		EARTH EXCAVATION ADJUSTED FOR SHRINKAGE (25% S.F.) (CU. YD.)		EARTH EXCAVATION WASTE (+) OR BORROW (-) (CU. YD.)	
			LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT
	ATWOOD-ARTHUR ROAD	100+54 TO 105+00.00 (PRAIRIE ST.) 100+54 TO 105+90.53 (T.R. 500N)	0	0	9	22	0	0	-9	-22
	ATWOOD-ARTHUR ROAD	105+00.00 (PRAIRIE ST.) TO 158+36.56 (T.R. 2300N) 105+90.53 (T.R. 500N) TO 159+31.19 (T.R. 600N)	3,048	4,560	2,077	2,809	2,286	3,420	+209	+611
	ATWOOD-ARTHUR ROAD	158+36.56 (T.R. 2300N) TO 211+01.88 (T.R. 2400N) 159+31.19 (T.R. 600N) TO 211+96.05 (T.R. 700N)	1,518	2,163	3,023	3,504	1,139	1,623	-1,884	-1,881
	ATWOOD-ARTHUR ROAD	211+01.88 (T.R. 2400N) TO 263+93.33 (T.R. 2500N) 211+96.05 (T.R. 700N) TO 264+36.55 (T.R. 800N)	3,096	2,546	3,402	3,905	2,322	1,920	-1,080	-1,985
	ATWOOD-ARTHUR ROAD	263+93.33 (T.R. 2500N) TO 349+91.50 (US RTE. 36) 264+36.55 (T.R. 800N) TO 349+91.50 (US RTE. 36)	4,774	4,654	5,783	6,606	3,581	3,491	-2,202	-3,115
	TOTAL PER SIDE		12,436	13,923	14,294	16,846	9,328	10,454	-4,966	-6,392
	TOTAL BOTH SIDES		26,359		31,140		19,782		-11,358	
									-203	
									-11,561*	

ESTIMATED RAW EMBANKMENT VOLUME FOR WIDENING FIELD ENTRANCES
 7 CU YD EACH
 x 29 F.E.
 203 CU YD

POROUS GRANULAR EMBANKMENT, SPECIAL		
LOCATION	STATION	TON
CULVERT NO. 1	111+42.14	103
CULVERT NO. 4	200+60.56	77
CULVERT NO. 6	281+71.66	48
CULVERT NO. 9	335+97.81	177
TOTAL		405

TRENCH BACKFILL		
STATION	NEW CULVERT CU. YD.	EXIST. CULVERT CU. YD.
158+36.6 LT	13	
159+31.2 RT	23	31
211+01.9 LT	7	7
211+96.1 RT	10	10
263+93.3 LT	10	10
264+36.6 RT	7	
TOTAL		58 = 128

AGGREGATE BASE COURSE, TYPE B		
STATION		TON
111+41.24 LT & RT		13
144+61.00 LT & RT		61
179+95.00 LT & RT		12
200+60.56 LT & RT		14
251+93.89 LT & RT		13
281+71.66 LT & RT		10
311+57.75 LT & RT		19
335+97.81 LT & RT		19
349+21.34 LT		3
TOTAL		164 *

*NOTE: FOR AGGREGATE BASE COURSE QUANTITIES FOR SIDE ROADS AND ENTRANCES SEE SCHEDULE

POROUS GRANULAR BACKFILL		CU YD
STATION		
111+42.14, STAGE I		25
111+42.14, STAGE II		14
144+61.00, CLOSURE		489
179+95.00, STAGE I		22
179+95.00, STAGE II		13
200+60.56, STAGE I		26
200+60.56, STAGE II		15
251+93.89, STAGE I		24
251+93.89, STAGE II		15
281+71.66, STAGE I		21
281+71.66, STAGE II		13
322+57.75, STAGE I		34
322+57.75, STAGE II		20
335+97.81, STAGE I		33
335+97.81, STAGE II		20
349+21.34, STAGE I		8
349+21.34, STAGE II		14
TOTAL		806

SEEDING, CLASS 2, MULCH METHOD 2				
STATION TO STATION		ACRES	MULCH METHOD 2 (ACRES)	TEMPORARY EROSION CONTROL SEEDING POUND
LT. 100+54	LT. 105+00.00 (PRAIRIE ST.)	0.02	0.02	2
LT. 105+00.00 (PRAIRIE ST.)	LT. 141+75	1.94	1.94	194
LT. 141+75	LT. 147+50	0.50	0.50	50
LT. 147+50	LT. 158+36.56 (T.R. 2300N)	0.63	0.63	63
LT. 158+36.56 (T.R. 2300N)	LT. 211+01.88 (T.R. 2400N)	2.51	2.51	251
LT. 211+01.88 (T.R. 2400N)	LT. 263+93.33 (T.R. 2500N)	3.05	3.05	305
LT. 263+93.33 (T.R. 2500N)	LT. 349+91.50 (US RTE. 36)	4.93	4.93	493
RT. 100+54	RT. 105+90.53 (T.R. 500N)	0.06	0.06	6
RT. 105+90.53 (T.R. 500N)	RT. 141+75	2.38	2.38	238
RT. 141+75	RT. 147+50	0.50	0.00	50
RT. 147+50	RT. 159+31.19 (T.R. 600N)	0.67	0.67	67
RT. 159+31.19 (T.R. 600N)	RT. 211+96.05 (T.R. 700N)	3.09	3.09	309
RT. 211+96.05 (T.R. 700N)	RT. 264+36.55 (T.R. 800N)	3.00	3.00	300
RT. 264+36.55 (T.R. 800N)	RT. 349+91.50 US RTE. 36	4.73	4.73	473
TOTAL USE		28.01	27.01	2,801
		28.0	27.0	

*THIS VOLUME TO BE PAID AS FURNISHED EXCAVATION

FERTILIZER NUTRIENT				
STATION TO STATION		NITROGEN (POUND)	PHOPHORUS (POUND)	POTASSIUM (POUND)
LT. 100+54	LT. 105+00.00 (PRAIRIE ST.)	2	2	2
LT. 105+00.00 (PRAIRIE ST.)	LT. 158+36.56 (T.R. 2300N)	276	276	276
LT. 158+36.56 (T.R. 2300N)	LT. 211+01.88 (T.R. 2400N)	226	226	226
LT. 211+01.88 (T.R. 2400N)	LT. 263+93.33 (T.R. 2500N)	275	275	275
LT. 263+93.33 (T.R. 2500N)	LT. 349+91.50 (US RTE. 36)	444	444	444
RT. 100+54	RT. 105+90.53 (T.R. 500N)	6	6	6
RT. 105+90.53 (T.R. 500N)	RT. 159+31.19 (T.R. 600N)	320	320	320
RT. 159+31.19 (T.R. 600N)	RT. 211+96.05 (T.R. 700N)	278	278	278
RT. 211+96.05 (T.R. 700N)	RT. 264+36.55 (T.R. 800N)	270	270	270
RT. 264+36.55 (T.R. 800N)	RT. 349+91.50 US RTE. 36	426	426	426
TOTAL		2,523	2,523	2,523

TREE REMOVAL (6 TO 15 UNITS DIAMETER)	
STATION	UNIT
139+00 LT	12
168+57 LT	12
168+85 LT 2 @ 10"	20
TOTAL	44

TREE REMOVAL (OVER 15 UNITS DIAMETER)	
STATION	UNIT
234+70 LT	36
235+00 LT	36
235+50 LT	36
235+92 LT	36
237+25 LT	36
TOTAL	180

REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL		
LOCATION	STATION	CU. YD.
CULVERT NO. 1	111+42.14	50
CULVERT NO. 4	200+60.56	37
CULVERT NO. 6	281+71.66	23
CULVERT NO. 9	335+97.81	86
TOTAL		196

TREE SCHEDULE										
PARCEL NO.	LANDOWNER	RED MAPLE	OCTOBER GLORY RED MAPLE	SUGAR MAPLE	PIN OAK	RED OAK	EUROPEAN BEECH	CLEVELAND SELECT PEAR	JAPANESE CRABAPPLE	COLORADO SPRUCE
5612010	Tim Mast	1		1		2	1	1		
5612019 & 29	Mark Jones				2				2	
5612021	Bill Crane		4							
5612022	Jerry Ray									4
5612024	Ken Beachy									4
5612030	A. C. S. D. #305 (Mr. Wilson)					2				8
5612051	Paul Mast		2							
TOTAL		1	6	1	2	4	1	1	2	16

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SCHEDULE OF QUANTITIES
 FAP ROUTE 816
 ATWOOD-ARTHUR RD
 SECTION 6RS-1 & (6BR)BR
 DOUGLAS COUNTY

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	11
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 90711
 * GRS-1 & (6BR)BR

TEMPORARY DITCH CHECKS		
STATION		EACH
141+00	RT	1
149+00	LT & RT	2
152+00	LT	1
154+00	RT	1
169+00	RT	1
176+00	RT	1
192+00	LT & RT	2
206+00	LT & RT	2
218+00	LT	1
219+00	RT	1
221+00	LT	1
222+00	RT	1
228+00	LT & RT	2
231+00	LT & RT	2
234+00	LT & RT	2
240+50	LT	1
242+00	RT	1
256+00	LT & RT	2
260+00	LT & RT	2
273+50	LT & RT	2
286+00	LT & RT	2
293+50	LT & RT	2
296+00	LT & RT	2
298+50	LT & RT	2
311+50	LT & RT	2
314+00	LT & RT	2
315+50	LT & RT	2
317+00	LT & RT	2
320+25	LT & RT	2
330+00	LT	1
340+00	LT	1
345+00	LT	1
TOTAL		50

EROSION CONTROL BLANKET		
STATION TO	STATION	SQ. YD.
111+42.14	LT	18
124+66.50	LT	16
SW QUAD TRIPLE	12X12 CULVERT	301
SE QUAD TRIPLE	12X12 CULVERT	431
NE QUAD TRIPLE	12X12 CULVERT	351
NW QUAD TRIPLE	12X12 CULVERT	522
179+95.00	LT	18
200+60.56	LT	21
251+93.89	LT	18
281+71.66	LT	16
300+96.63	LT	16
322+57.75	LT	26
335+97.81	LT	26
TOTAL		1,780

PERIMETER EROSION BARRIER		
STATION TO	STATION	FOOT
110+50	112+50	200
124+16	125+16	100
144+00	145+20	240
179+50	180+50	100
200+00	201+25	125
251+50	252+50	100
281+25	282+25	100
300+50	301+50	100
321+50	323+50	200
335+00	337+00	200
TOTAL		1,465

STONE DUMPED RIP-RAP CLASS A-3		
STATION		SQ. YD.
144 + 61.00	LT	247
144 + 61.00	RT	293
TOTAL		540

HMA SURFACE REMOVAL - BUTT JOINT		
STATION TO		SQ. YD.
100+54		134
349+61.5		464
TOTAL		598

INLET AND PIPE PROTECTION		
STATION		EACH
111+42.1	LT & RT	2
111+89.0	LT	1
113+17.0	LT	1
114+28.0	LT	1
116+09.5	LT	1
118+75.0	LT	1
119+80.0	RT	1
120+44.7	LT	1
121+33.5	LT	1
124+66.6	LT & RT	2
127+47.2	LT	1
130+97.9	LT	1
132+87.0	RT	1
136+44.0	LT	1
137+85.6	LT	1
139+05.1	LT	1
139+70.4	LT	1
140+63.0	LT	1
141+50.4	LT	1
143+71.2	LT	1
144+00.0	RT	1
145+13.0	LT	1
146+01.9	RT	1
155+29.4	LT	1
156+57.8	LT	1
158+36.6	LT	1
159+31.2	RT	1
163+73.2	LT	1
164+30.9	LT	1
168+75.0	LT	1
169+30.0	LT	1
171+66.5	LT	1
179+95.0	LT & RT	2
184+27.0	RT	1
184+81.0	LT	1
185+30.0	RT	1
198+02.3	LT	1
200+60.6	LT & RT	2
211+01.9	LT	1
211+96.1	RT	1
212+37.7	RT	1
224+11.2	LT	1
224+82.3	RT	1
235+70.6	LT	1
236+83.4	LT	1
237+86.2	RT	1
237+86.2	LT	1
250+67.3	LT	1
251+11.6	RT	1
251+93.9	LT & RT	2
263+93.3	LT	2
264+36.6	RT	1
264+38.1	LT	1
277+22.0	RT	1
277+30.0	LT	1
281+71.7	LT & RT	2
300+96.6	LT & RT	2
303+88.8	LT	1
308+04.4	RT	1
318+42.4	LT	1
318+42.4	RT	1
322+57.8	LT & RT	2
327+50.0	LT	1
332+11.0	RT	1
332+30.7	LT	1
335+97.8	LT & RT	2
336+15.0	LT	1
337+90.2	RT	1
342+52.9	RT	1
349+21.3	RT	1
TOTAL		81

HMA SURFACE REMOVAL, SPECIAL		
STATION		SQ. YD.
105+00.00	LT PRAIRIE ST.	27
105+90.53	RT T. R. 500N	23
116+09.50	LT	27
118+27.20	LT	20
130+97.90	LT	14
132+87.00	RT	16
133+31.20	RT	16
141+50.40	LT	28
156+57.80	LT	14
158+36.55	LT T. R. 2300N	24
159+31.19	RT T. R. 600N	18
163+73.20	LT	20
164+30.90	LT	27
168+75.00	LT	14
169+30.00	LT	27
171+66.50	LT	18
184+27.00	RT	14
184+81.00	LT	16
185+50.00	RT	14
211+01.88	LT T. R. 2400N	23
211+96.50	RT T. R. 700N	19
235+70.60	LT	25
263+93.73	LT T. R. 2500N	23
264+36.55	RT T. R. 800N	23
TOTAL		490

PAVED SHOULDER REMOVAL		
STATION TO	STATION	FOOT
144+21.4	144+46.7	LT & RT 39.5
144+76.7	145+00.7	LT & RT 37.5
TOTAL		77.0

HOT-MIX ASPHALT LEVEL BINDER AND SURFACE						
LOCATION		HMA SURFACE CSE. MIX "C", N50 (TON)	LEVELING BINDER (MM) (TON)	BITUMINOUS MATERIALS (PRIME COAT) (GAL)	AGGREGATE PRIME COAT (TON)	TEMPORARY RAMP (SQ YD)
100+54	345+10	5,972	2,976	14,130	282	23
345+10	349+91.5	222	95	520	9	128
TOTAL		6,194	3,071	14,650	291	151

HOT-MIX ASPHALT SURFACE REMOVAL 2.25"				
STATION TO STATION	LENGTH (FT)	WIDTH (FT)	AREA (SQ YD)	
LT 100+54.0	LT 157+95.0	5,741.0	4.0	2,551.6
RT 100+54.0	RT 158+89.0	5,835.0	4.0	2,593.3
TOTAL				5,144.9
USE				5,145.0

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SCHEDULE OF QUANTITIES
 FAP ROUTE 816
 ATWOOD-ARTHUR RD
 SECTION 6RS-1 & (6BR)BR
 DOUGLAS COUNTY

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	12
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 90711
 * 6RS-1 & (6BR)BR

SIDE ROADS & ENTRANCES SCHEDULE											
LOCATION	REFERENCE	CE, PE, FE, OR SR	EXISTING SURFACE TYPE	WIDTH @ EOP/EOS (FOOT)	AGGREGATE SURFACE COURSE TY. B (TONS)	INCIDENTIAL HMA SURFACING (TONS)	BITUMINOUS MATERIAL (PRIME COAT) (GAL)	AGGREGATE (PRIME COAT) (TONS)	AGGREGATE BASE COURSE TY. B (TONS)	PCC DRIVEWAY PAVEMENT 6" (SQ. YD.)	HMA BASE COURSE WIDENING 9 INCH (SQ YD)
101+45.0 LT		PE	CONC	50		6	5	0.12			
102+28.3 RT		CE	CONC	64		9	7	0.17			
104+01.5 LT		PE	CONC	49		6	4	0.11			
105+00.9 LT	PRAIRIE ST.	SR	BIT	84		18	12	0.30			
105+90.9 RT	T. R. 500N	SR	BIT	84		33	22	0.60			
106+72.5 LT		PE	CONC	50		7	5	0.15			23
111+89.0 LT		CE	AGG	40	29	2	8	0.05	5		
113+17.1 LT		CE	AGG	45	33	2	7	0.05	5		
114+28.0 LT		CE	AGG	35	22	2	5	0.05	4		
116+09.5 LT		CE	BIT	38		13	49	0.20	26		
118+27.2 LT		CE	BIT	34		10	38	0.15	26		
118+75.0 LT		CE	AGG	30	24	2	5	0.05	4		
119+80.0 RT		FE	AGG	45	31						
120+44.7 LT		CE	AGG	45	32	2	7	0.05	5		
121+33.5 LT		CE	AGG	25	22	2	5	0.05	4		
127+47.2 LT		FE	AGG	45	41						
130+97.9 LT		PE	BIT	26		5	19	0.10	15		
132+87.0 RT		PE	BIT	28		6	22	0.10	14		
133+31.2 RT		PE	BIT	28		6	20	0.10	14		
134+87.9 RT		PE	AGG	22	8	1	5	0.05	3		
136+44.0 LT		CE	CONC	57		9	7	0.17			
137+85.6 LT		CE	AGG	22	28	2	5	0.05	3		
139+09.1 LT		FE	AGG	45	41						
139+70.4 LT		PE	AGG	22	16	1	4	0.04	3		
140+63.0 LT		PE	AGG	45	28	2	5	0.05	6		
141+50.4 LT		PE	BIT	34		10	38	0.15	23		
143+71.2 LT		PE	AGG	40	30	2	7	0.05	5		
146+01.9 RT		FE	AGG	45	41						
155+29.2 LT		FE	GRASS	45	41						
156+57.8 LT		PE	BIT	28		8	29	0.15	22		
158+36.6 LT	T. R. 2300N	SR	BIT	84		34	22	0.60			18
159+31.2 RT	T. R. 600N	SR	BIT	84		32	22	0.60			37
163+73.2 LT		PE	BIT	32		8	28	0.11	20		
164+30.9 LT		PE	BIT	32		9	33	0.15	26		
168+75.0 LT		PE	BIT	26		5	19	0.10	15		
169+30.0 LT		PE	BIT	34		9	35	0.15	26		
171+66.5 LT		PE	BIT	30		7	26	0.10	18		
184+27.0 RT		PE	BIT	26		6	22	0.10	19		
184+81.0 LT		PE	BIT	28		9	36	0.15	19		
185+50.0 RT		PE	BIT	26		5	17	0.07	16		
198+02.3 LT		FE	GRASS	45	36						
210+58.8 LT		FE	GRASS	45	36						
211+01.9 LT	T. R. 2400N	SR	BIT	84		33	22	0.60			18
211+96.1 RT	T. R. 700N	SR	BIT	84		32	22	0.60			35
212+37.7 RT		FE	GRASS	45	36						
224+11.2 LT		FE	GRASS	45	36						
224+82.3 RT		FE	GRASS	62	48						
235+70.6 LT		PE	BIT	36		10	38	0.15	29		
236+83.4 LT		FE	GRASS	45	36						
237+86.2 RT		FE	AGG	45	36						
237+86.2 LT		FE	-	45	36						
238+25.7 RT		FE	GRASS	45	36						
250+65.0 LT		FE	-	45	36						
251+11.6 RT		FE	GRASS	45	36						
263+93.3 LT	T. R. 2500N	SR	BIT	84		33	22	0.60			18
264+36.6 RT	T. R. 800N	SR	BIT	84		40	26	0.70			48
264+38.1 LT		FE	GRASS	45	36						
277+22.0 RT		FE	GRASS	45	36						
277+30.0 LT		FE	AGG	45	36						
290+94.4 RT		FE	GRASS	45	36						
303+46.0 LT		FE	-	45	43.5						
303+88.8 LT		FE	AGG	45	43.5						
308+04.4 RT		FE	AGG	45	41						
318+42.4 LT		FE	GRASS	45	36						
318+42.4 RT		FE	GRASS	45	36						
326+43.4 LT		PE	CONC	43						35	
332+11.0 RT		FE	GRASS	45	39						
332+30.7 LT		PE	AGG	26	14	1	4	0.01	3		
332+43.5 RT		FE	GRASS	45	39						
337+90.2 RT		FE	AGG	45	36						
342+52.9 RT		FE	AGG	45	36						
TOTAL					1,400	438	734	7.90	378 *	35	197

LEGEND	
PE	PRIVATE ENTRANCE
FE	FIELD ENTRANCE
CE	COMMERCIAL ENTRANCE
SR	SIDE ROAD

*PLUS 164 TONS FOR SHOULDERS SEE SCHEDULE ON SHEET 10

DRIVEWAY PAVEMENT REMOVAL	
STATION	SQ. YD.
184+27.00 RT	28.2
184+81.00 LT	37.9
185+50.00 RT	23.9
235+70.60 LT	31.7
326+43.40 LT	76.0
TOTAL	198.0

AGGREGATE FOR TEMPORARY ACCESS	
STATION	TON
116+09.50 LT	5
118+27.20 LT	5
130+97.90 LT	4
132+87.00 RT	3
133+31.20 RT	3
136+44.00 LT	16
139+70.40 LT	9
141+50.40 LT	12
156+57.80 LT	8
163+73.20 LT	9
164+30.90 LT	9
168+75.00 LT	5
169+30.00 LT	11
171+66.50 LT	6
184+27.00 RT	3
184+81.00 LT	4
185+50.00 RT	4
235+70.60 LT	11
326+43.40 LT	8
TOTAL	135

COMBINATION CURB AND GUTTER REMOVAL		
STATION	STATION	FOOT
349+17.84 LT	349+24.84 LT	7
349+17.84 RT	349+24.84 RT	7
TOTAL		14

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SCHEDULE OF QUANTITIES
 FAP ROUTE 816
 ATWOOD-ARTHUR RD
 SECTION 6RS-1 & (6BR)BR
 DOUGLAS COUNTY
 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	13

STA. TO STA.
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

CONTRACT NO. 90711
* 6RS-1 & (6BR)BR

PATCHING										
STA	O/S	COMMENTS	PARTIAL DEPTH		CLASS D, 6"			CLASS D, 11"		
			AREA (SQ YD)	QUANTITY (TON)	TY 2 (SQ YD)	TY 3 (SQ YD)	TY 4 (SQ YD)	TY 2 (SQ YD)	TY 3 (SQ YD)	TY 4 (SQ YD)
101+95.00	RT							8.7		
101+95.00	LT							8.7		
102+99.00	RT							8.7		
102+99.00	LT							8.7		
103+43.00	RT							8.7		
103+43.00	LT							8.7		
103+83.00	RT							8.7		
103+83.00	LT							8.7		
103+99.00	RT							8.7		
103+99.00	LT							8.7		
106+00.00	RT							8.7		
106+00.00	LT							8.7		
107+00.00	RT							8.7		
107+00.00	LT							8.7		
108+01.00	RT							8.7		
108+01.00	LT							8.7		
110+17.00	RT							8.7		
110+17.00	LT							8.7		
111+42.14	LT				12.5					
111+42.14	RT				12.5					
111+42.14		STAGE I								36
111+42.14		STAGE II								36
111+64.00	RT							8.7		
111+64.00	LT							8.7		
112+92.00	RT							8.7		
112+92.00	LT							8.7		
114+95.00	RT							11.6		
114+95.00	LT							11.6		
116+09.50	LT					15				
116+96.00	RT							8.7		
116+96.00	LT							8.7		
117+93.00	RT							14.4		
117+93.00	LT							14.4		
118+27.20	LT					14				
118+95.00	RT		8.7	2.9						
118+95.00	LT		8.7	2.9						
119+96.00	RT		8.7	2.9						
119+96.00	LT		8.7	2.9						
120+97.00	RT							11.6		
120+97.00	LT							11.6		
121+96.00	RT							8.7		
121+96.00	LT							8.7		
122+98.00	RT		8.7	2.9						
122+98.00	LT		8.7	2.9						
126+99.00	RT							8.7		
126+99.00	LT							8.7		
129+91.00	RT							8.7		
129+91.00	LT							8.7		
130+97.90	LT					12				
132+87.00	RT					9				
133+31.20	RT					9				
134+92.00	RT							11.6		
134+92.00	LT							11.6		
136+44.00	LT						45			
139+70.40	LT						24			
140+68.00	RT								17.3	
140+68.00	LT								17.3	
141+50.40	LT						33			
SUB-TOTAL			52.2	17.4	69	39	78	358.8	34.6	72

PATCHING (CONT'D)										
STA	O/S	COMMENTS	PARTIAL DEPTH		CLASS D, 6"			CLASS D, 11"		
			AREA (SQ YD)	QUANTITY (TON)	TY 2 (SQ YD)	TY 3 (SQ YD)	TY 4 (SQ YD)	TY 2 (SQ YD)	TY 3 (SQ YD)	TY 4 (SQ YD)
150+90.00	RT		8.7	2.9						
150+90.00	LT		8.7	2.9						
156+57.80	LT						23			
158+36.55	LT	TR 2300N				7.5				
158+36.55	LT	TR 2300N				7.5				
159+31.19	RT	TR 600N				9.5				
159+31.19	RT	TR 600N				9.5				
159+31.19	RT	TR 600N				6				
159+31.19	RT	TR 600N				6				
159+77.00	RT								8.7	
159+77.00	LT								17.3	
163+73.20	LT							26		
164+30.90	LT							26		
167+87.00	RT		8.7	2.9						
167+87.00	LT		8.7	2.9						
168+75.00	LT						15			
169+30.00	LT							32		
171+66.50	LT						17			
174+90.00	RT							8.7		
174+90.00	LT							8.7		
179+95.00		STAGE I								35
179+95.00		STAGE II								35
184+27.00	RT					9				
184+81.00	LT					12				
185+50.00	RT					11				
200+60.56		STAGE I								40
200+60.56		STAGE II								40
202+82.00	LT								11.6	
203+91.00	LT								10	
204+79.00	LT								11.6	
205+79.00	RT								11.6	
205+79.00	LT								14.4	
205+79.00	RT		11.6	3.9						
205+79.00	LT		14.4	4.9						
206+81.00	LT								8.7	
206+81.00	LT		8.7	2.9						
208+82.00	RT								11.6	
208+82.00	LT								11.6	
211+01.88	LT	TR 2400N				11.5				
211+01.88	LT	TR 2400N				11.5				
211+96.05	RT	TR 700 N				12				
211+96.05	RT	TR 700 N				12				
235+70.60	LT								30	
251+93.89		STAGE I								36
251+93.89		STAGE II								36
263+93.33	LT	TR 2500N				12.5				
263+93.33	LT	TR 2500N				12.5				
264+36.55	RT	TR 800N				6.5				
264+36.55	RT	TR 800N				6.5				
281+71.66		STAGE I								30
281+71.66		STAGE II								30
322+57.75		STAGE I								51
322+57.75		STAGE II								51
335+97.81		STAGE I								51
335+97.81		STAGE II								51
349+21.34		STAGE I								31
349+21.34		STAGE II								27
SUB-TOTAL			69.5	23.3	163	55	114	117.2	17.3	544
TOTAL			121.7	40.7	232.0	94.0	192.0	476.0	51.9	616.0
USE			122	41	232	94	192	476	52	616

CLASS D PATCHES (SPECIAL)			
O/S	STATION	STATION	SQ YD
LT&RT	144+21.4	145+00.7	230.0
TOTAL			230.0

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SCHEDULE OF QUANTITIES
FAP ROUTE 816
ATWOOD-ARTHUR RD
SECTION 6RS-1 & (6BR)BR
DOUGLAS COUNTY

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

GUARDRAIL REMOVAL		
STATION	STATION	FOOT
STRUCTURE NO. 021-0033		
143+69.5 RT	145+53.3 RT	116
144+05.8 LT	145+53.1 LT	152
TOTAL		268

PROPOSED GUARDRAIL								
STA	STA	TBT TY 2 (EACH)	SPBGR TY A (SHORT RADIUS) (FOOT)	SPBGR TY A (FOOT)	SPBGR TY B (FOOT)	SPBGR ATTACHED STRUCTURE (FOOT)	TBT TY 1 SPL FL (EACH)	SPBGR END SHOE (EACH)
LEFT SIDE								
143+83.75	-	1.0						
143+83.75	143+99.75		25.0					
143+99.75	144+14.75			15.0				
144+14.75	144+39.75				25.0			
144+39.75	144+82.25					42.5		
144+82.25	145+07.25				25.0			
145+07.25	146+32.25			125.0				
146+32.25	146+82.25						1.0	
RIGHT SIDE								
142+39.75	142+89.75						1.0	
142+89.75	144+14.75			125.0				
144+14.75	144+39.75				25.0			
144+39.75	144+82.25					42.5		
144+82.25	145+07.25				25.0			
145+07.25	145+69.75			62.5				
145+69.75	145+85.75		25.0					
145+85.75	-							1.0
TOTAL		1.0	50.0	327.5	100.0	85.0	2.0	1.0
USE		1.0	50.0	327.5	100.0	85.0	2.0	1.0*

*INCLUDED IN SPBGR TY A PAY ITEM

GUARDRAIL MARKERS		
STATION TO	STATION	EACH
143+82.80 LT	146+82.25 LT	4
142+39.75 RT	145+85.75 RT	4
TOTAL		8

TERMINAL MARKER - DIRECT APPLIED	
STATION	EACH
142+39.75 RT	1
146+82.25 LT	1
TOTAL	2

FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS			
STATION LEFT	EACH	STATION RIGHT	EACH
121+75.00	1	120+20.00	2
122+00.00	1	129+00.00	2
128+00.00	1	136+00.00	2
128+25.00	1	141+00.00	1
135+75.50	1	142+00.00	1
135+75.64	1	143+00.00	1
143+60.00	1	144+00.00	1
144+32.75	1	145+00.00	1
147+15.28	2	145+55.00	1
158+14.72	1	146+12.17	2
158+59.64	1	152+00.00	1
161+54.55	1	154+00.00	1
161+54.66	1	159+10.79	1
173+59.94	1	159+53.80	1
173+60.07	1	161+00.00	1
210+74.41	1	162+00.00	1
210+85.36	1	184+40.00	2
211+24.44	1	185+30.00	2
263+60.46	1	198+82.59	1
263+72.76	1	211+73.00	1
264+20.51	1	212+12.56	1
313+00.00	1	212+28.33 (METH. B)2	1
314+00.00	1	264+22.26	1
317+00.00	1	264+68.22	1
318+00.00	1	300+97.25	1
325+00.00	2	300+97.29	1
327+50.00	2	317+00.00	1
343+50.00	1	318+00.00	1
		343+50.00	1
SUBTOTAL	31	SUBTOTAL	36
TOTAL		TOTAL	67

SURVEY MARKERS TYPE 2, SPECIAL	
STATION	EACH
147+15.28	1
153+40.34	1
159+65.39	1
267+85.61	1
272+12.33	1
276+39.05	1
TOTAL	6

SURVEY MONUMENT COVER ASSEMBLY		
STATION	OFFSET	EACH
105+00.79	0.00' LT	1
105+86.78	0.00' LT	1
131+67.19	0.00' LT	1
132+75.18	0.14' LT	1
158+33.60	0.00' LT	1
159+35.15	0.04' LT	1
184+66.95	0.00' LT	1
211+06.34	0.00' LT	1
211+94.05	0.16' RT	1
237+45.72	4.77' RT	1
238+03.72	4.64' RT	1
263+84.32	0.16' RT	1
264+76.72	0.71' RT	1
TOTAL		13

TEMPORARY PAVEMENT MARKING - LINE 4"		
STATION TO	STATION	FOOT
100+54.0	349+91.5	6,235
100+54.0 (EDGE)	349+91.5 (EDGE)	49,875
TOTAL		56,110

TEMPORARY PAVEMENT MARKING - LINE 24"	
STATION TO	FOOT
349+78.0 RT (NB STOP BAR)	24
349+78.0 RT (TL STOP BAR)	24
TOTAL	48

SHORT TERM PAVEMENT MARKING		
STATION TO	STATION	FOOT
100+54.0	345+10.0	4,900
345+10.0	349+91.5	210
100+54.0 LT & RT	349+91.5 LT & RT	4,005
349+75 RT (STOP BARS)	349+91.5 RT	100
TOTAL		9,215

WORK ZONE PAVEMENT MARKING REMOVAL		
STATION TO	STATION	SQ. FT.
100+54.0	349+91.5	824
100+54.0	349+91.5 (DIAGONALS)	660
349+75 RT (STOP BARS)		100
TEMP. PAVT MKG LINES 4" & 24"		18,800
TOTAL		20,384

PAINT PAVEMENT MARKING - LINE 4"		
STATION TO	STATION	FOOT
100+54.0	340+10.0	6,130
340+10.0	345+10.0	500
345+10.0	349+91.5	965
100+54.0 LT & RT	345+10.0 LT & RT	48,915
345+10.0 LT	349+91.5 LT	500
345+10.0 RT	349+91.5 RT	500
TOTAL		57,510

PAINT PAVEMENT MARKING - LINE 24"	
STATION	FOOT
349+75	50
TOTAL	50

RAISED REFLECTIVE PAVEMENT MARKERS		
STATION TO	STATION	EACH
100+54.0	340+10.0	301
340+10.0	349+91.5	54
TOTAL		355

RUMBLE STRIPS		
STATION TO	STATION	EACH
344+21 RT	344+45 RT	1
344+75 RT	345+00 RT	1
346+75 RT	347+00 RT	1
TOTAL		3

SEALING ABANDONED WATER WELLS		
STATION	SIDE	EACH
157+50	LT	1
TOTAL		1

PERMANENT BENCHMARK	
STATION	EACH
144+61	1
TOTAL	1

NAME PLATES		
STATION	PR. S. N.	EACH
144+61.00	021-2025	1
200+60.56	021-8051	1
322+57.75	021-8050	1
335+97.81	021-8049	1
TOTAL		4

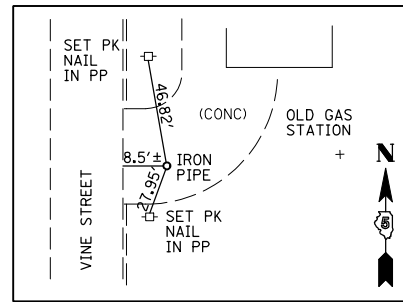
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SCHEDULE OF QUANTITIES
 FAP ROUTE 816
 ATWOOD-ARTHUR RD
 SECTION 6RS-1 & (6BR)BR
 DOUGLAS COUNTY

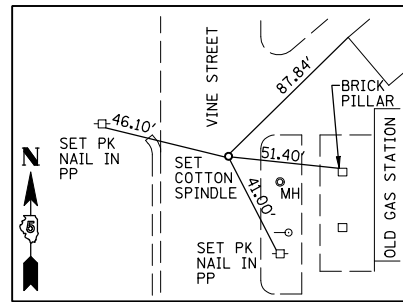
SCALE: VERT. DRAWN BY: JJO
 HORIZ. CHECKED BY: PJM
 DATE: 11/24/03

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	•	DOUGLAS	176	17
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

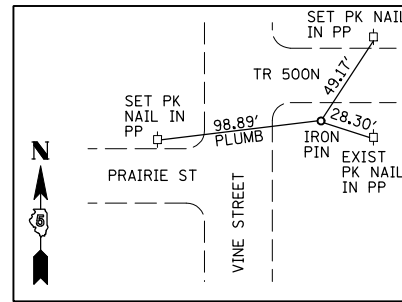
CONTRACT NO. 90711
• 6RS-1 & (6BR)BR



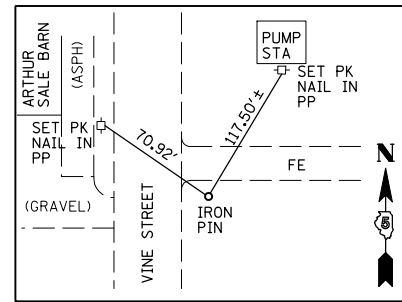
STA 99+76±
C.P. #10
(IRON PIPE)



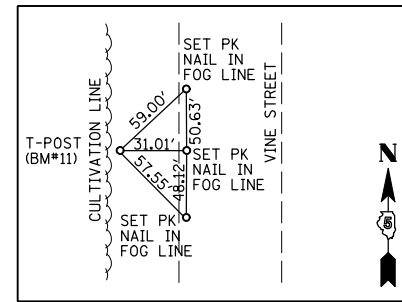
PI FAP 816
STA 100+54.00
(COTTON SPINDLE)



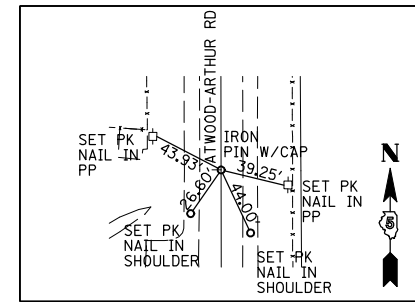
STA 105+73.00
C.P. #11-52
(IRON PIPE)



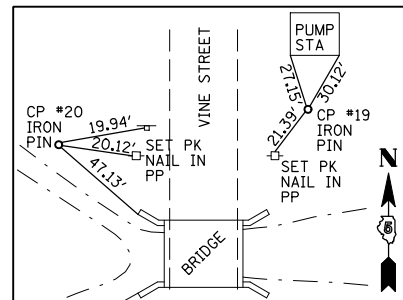
STA 118+82.00±
C.P. #12
(IRON PIN)



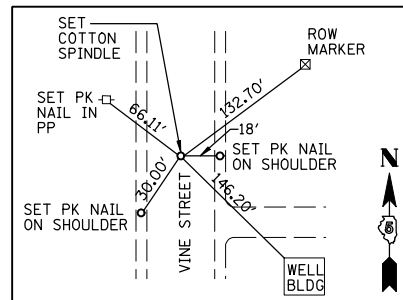
STA 134+55±
C.P. #18 BM #11



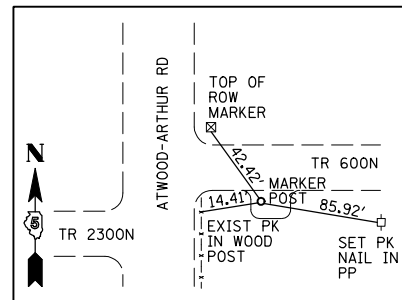
STA 142+00.00
P.O.T.
(T-POST)



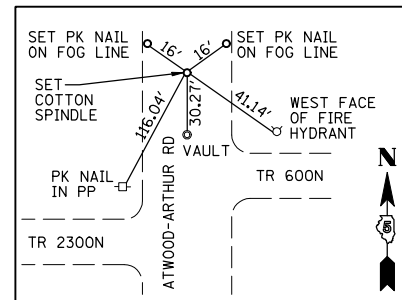
STA 145+25.00± C.P. #20
STA 145+35.00± C.P. #19
(IRON PIN)



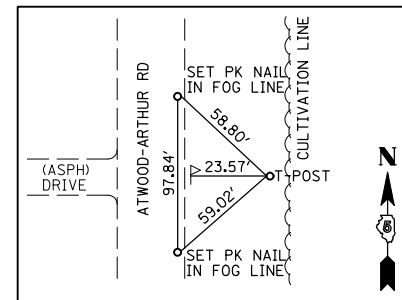
PC FAP 816
STA 147+15.28
(COTTON SPINDLE)



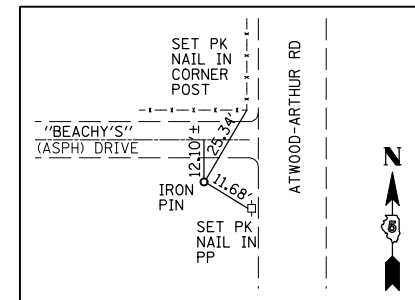
STA 159+10.00±
C.P. #13
(MARKER POST)



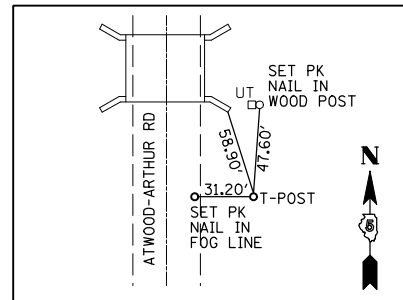
PT FAP 816
STA 159+65.39
(COTTON SPINDLE)



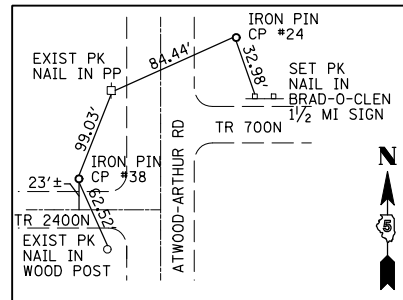
STA 171+68
C.P. #21 BM #14
(T-POST)



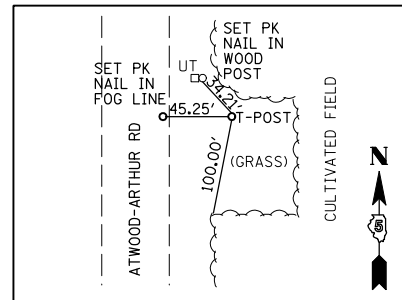
STA 184+71.00±
C.P. #22
(IRON PIN)



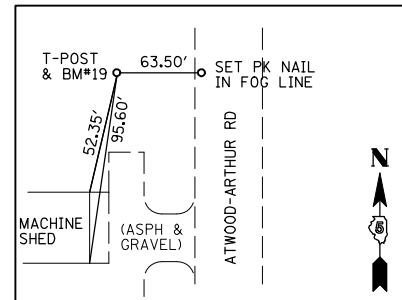
STA 200+07.00±
C.P. #23
(T-POST)



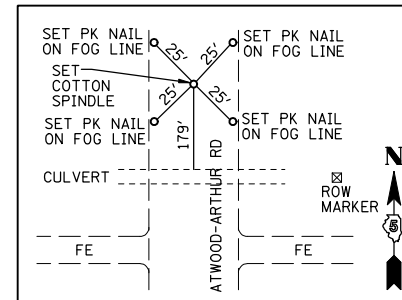
STA 211+29.00± C.P. #38
STA 212+49.00± C.P. #24
(IRON PIPE)



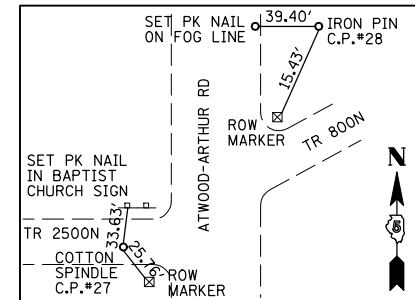
STA 224+77.00±
C.P. #25
(T-POST)



STA 236+63.00
C.P. #26 BM #19
(T-POST)



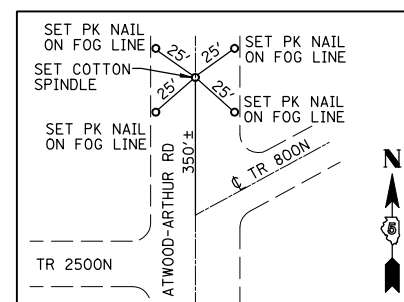
PI FAP 816
STA 253+72.63
(COTTON SPINDLE)



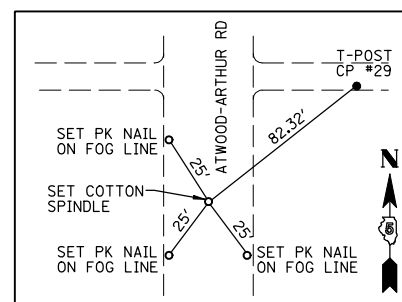
STA 263+85.00± C.P. #27
(COTTON SPINDLE)
STA 264+80.00± C.P. #28
(IRON PIN)

REVISIONS	
NAME	DATE

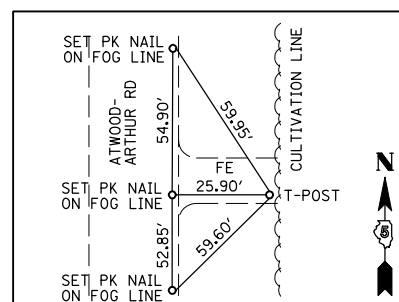
ILLINOIS DEPARTMENT OF TRANSPORTATION
SURVEY TIES AND BENCHMARKS
FAP ROUTE 816
ATWOOD-ARTHUR RD
SECTION 6RS-1 & (6BR)BR
DOUGLAS COUNTY
SCALE: VERT. HORIZ.
DATE: 11/24/03
DRAWN BY: JJO
CHECKED BY: PJM



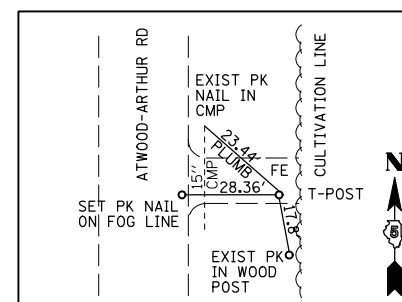
PC FAP 816
STA 267+85.61
(COTTON SPINDLE)



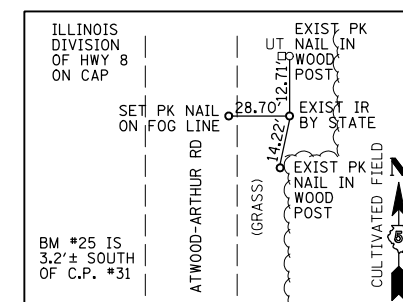
PT FAP 816
STA 276+39.05
(COTTON SPINDLE)



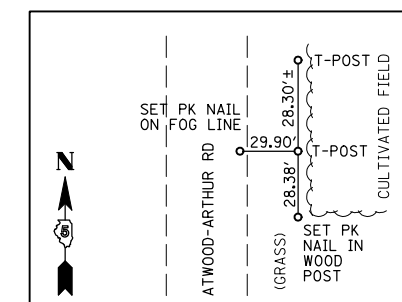
STA 277+11.00±
C.P. #29 BM #22
(T-POST)



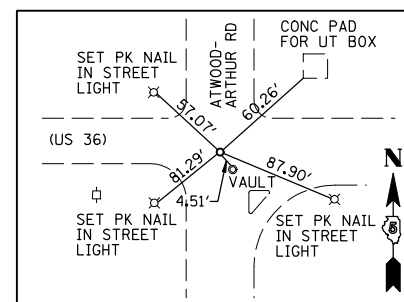
STA 290+83.00±
C.P. #30 BM #23
(T-POST)



STA 315+29.50±
C.P. #31
(IRON ROD)



STA 324+62.00
C.P. #32
(T-POST)



PI FAP 816
STA 350+15.31
(COTTON SPINDLE)

BENCHMARK LOCATIONS

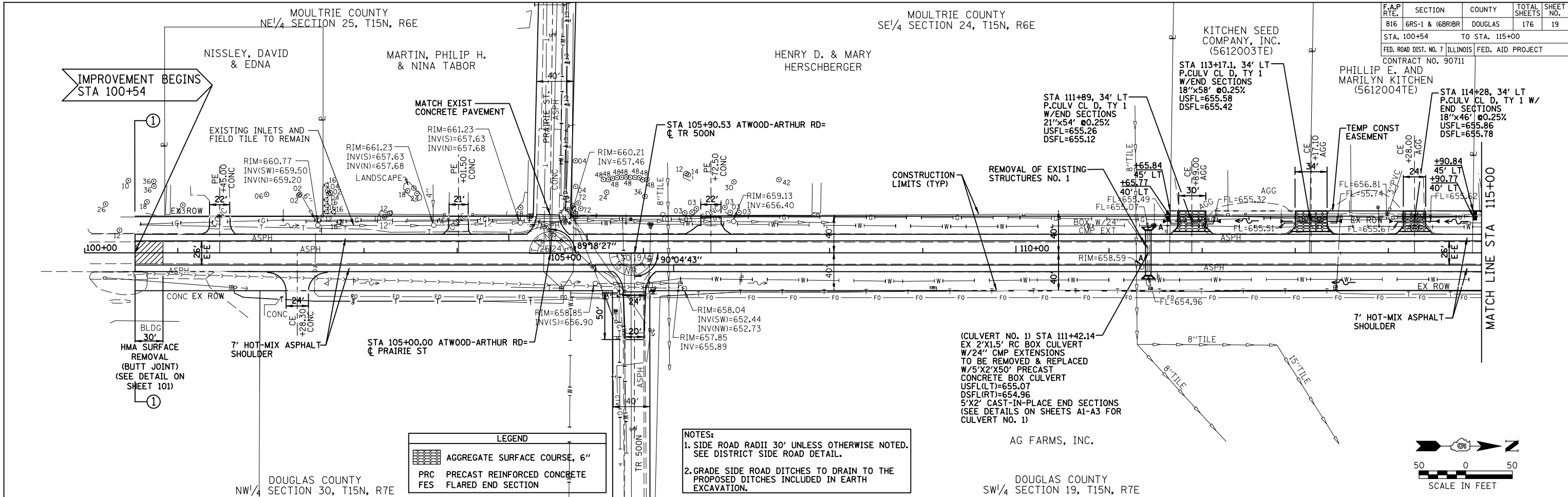
NUMBER	ELEVATION	STATION	OFFSET	DESCRIPTION
10	659.26	111+62.41	39.70' LT	1st FIRE HYDRANT N. OF PRAIRIE ON THE W. SIDE OF VINE ST. (ATWOOD-ARTHUR ROAD)
11	657.82	134+14.81	42.41' LT	220' S. OF CL THERMOGAS DRIVE ON THE W. SIDE OF VINE ST. (ATWOOD-ARTHUR ROAD)
12	661.96	144+45.57	22.60' RT	CUT "□" ON THE S.E. CORNER CONC. RAIL OF BRIDGE OVER THE W. FORK OF KASKASKIA RIVER W. VINE ST (ATWOOD-ARTHUR ROAD)
13	666.69	159+54.18	40.00' RT	TOP FIRE HYDRANT AT THE N.E. CORNER OF VINE ST. (ATWOOD-ARTHUR ROAD) & T.R. 600N
14	661.44	171+66.99	44.97' RT	TOP FENCE POST ON THE E. SIDE OF VINE ST. (ATWOOD-ARTHUR ROAD) OPPOSITE THE FAR N. HOUSE W. SIDE OF VINE ST.
15	661.43	179+96.93	17.94' RT	CUT "□" ON TOP CENTER BOX CULVERT ON THE E. SIDE OF ATWOOD-ARTHUR ROAD 350' S. OF S. DRIVEWAY TO JONES' FARM
16	660.88	200+04.46	43.23' RT	TOP FENCE POST 0.25± MILE N. OF THE N. DRIVEWAY TO JONES' FARM ON THE E. SIDE OF ATWOOD-ARTHUR ROAD
17	665.03	212+19.70	42.11' RT	TOP FIRE HYDRANT AT THE N.E. CORNER OF ATWOOD-ARTHUR ROAD & T.R. 700N
18	665.53	224+76.54	56.91' RT	T-POST FLUSH WITH GROUND 0.2± MILE N. OF T.R. 700N ON THE E. SIDE OF ATWOOD-ARTHUR ROAD
19	671.63	236+63.09	75.09' LT	T-POST AT MACHINE SHED ON W. SIDE OF ATWOOD-ARTHUR ROAD 0.45± MILE N. OF T.R. 700N
20	674.26	251+93.17	18.01' LT	CUT "□" CENTER OF CONC. HEADWALL OF 3'x2' BOX CULVERT ON THE W. SIDE OF ATWOOD-ARTHUR ROAD
21	679.55	264+70.65	40.72' RT	TOP FIRE HYDRANT AT THE N.E. CORNER OF ATWOOD-ARTHUR ROAD & T.R. 800N ON ATWOOD-ARTHUR ROAD
22	674.92	277+12.16	37.80' RT	T-POST FLUSH WITH GROUND AT FE ON THE E. SIDE OF ATWOOD-ARTHUR ROAD 0.25± MILE N. OF T.R. 800N
23	674.32	290+84.17	40.15' RT	T-POST FLUSH WITH GROUND AT FE ON THE E. SIDE OF ATWOOD-ARTHUR ROAD 0.45± MILE N. OF T.R. 800N
24	672.53	300+96.69	17.78' LT	CUT "□" ON CENTER OF W. HEADWALL 3'x2' BOX CULVERT 0.65± MILE N. OF T.R. 800N
25	669.89	315+27.21	40.31' RT	T-POST FLUSH WITH GROUND 0.9± MILE N. OF T.R. 800N ON THE E. SIDE OF ATWOOD-ARTHUR ROAD
26	663.75	324+62.96	41.58' RT	T-POST FLUSH WITH GROUND 1.1± MILE N. OF T.R. 800N ON THE E. SIDE ATWOOD-ARTHUR ROAD
27	664.54	338+80.26	63.63' RT	TOP OF S.W. GUARD POST FOR NATURAL GAS PIPELINE VALVE 1.3± MILE N. OF T.R. 800N ON THE E. SIDE OF ATWOOD-ARTHUR ROAD
28	662.67	349+20.64	40.19' RT	CUT "□" ON CENTER HEADWALL OF BOX CULVERT AT THE S.E. CORNER OF T.R. 950N (CH 36) & ATWOOD-ARTHUR ROAD
29	665.38	349+08.34	60.43' LT	SPINDLE NAIL IN THE N. LEG OF "ARTHUR" SIGN AT THE S.W. CORNER OF T.R. 950N (CH 36) & ATWOOD-ARTHUR ROAD

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SURVEY TIES AND BENCHMARKS
FAP ROUTE 816
ATWOOD-ARTHUR RD
SECTION 6RS-1 & (6BR)BR
DOUGLAS COUNTY

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6RS-1 & 6BRBR	DOUGLAS	176	19
STA. 100+54		TO STA. 115+00		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 90711				

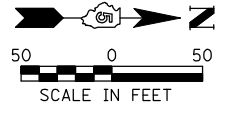


LEGEND

	AGG SURFACE COURSE, 6"
	PRC PRECAST REINFORCED CONCRETE
	FES FLARED END SECTION

NOTES:

- SIDE ROAD RADII 30' UNLESS OTHERWISE NOTED. SEE DISTRICT SIDE ROAD DETAIL.
- GRADE SIDE ROAD DITCHES TO DRAIN TO THE PROPOSED DITCHES INCLUDED IN EARTH EXCAVATION.

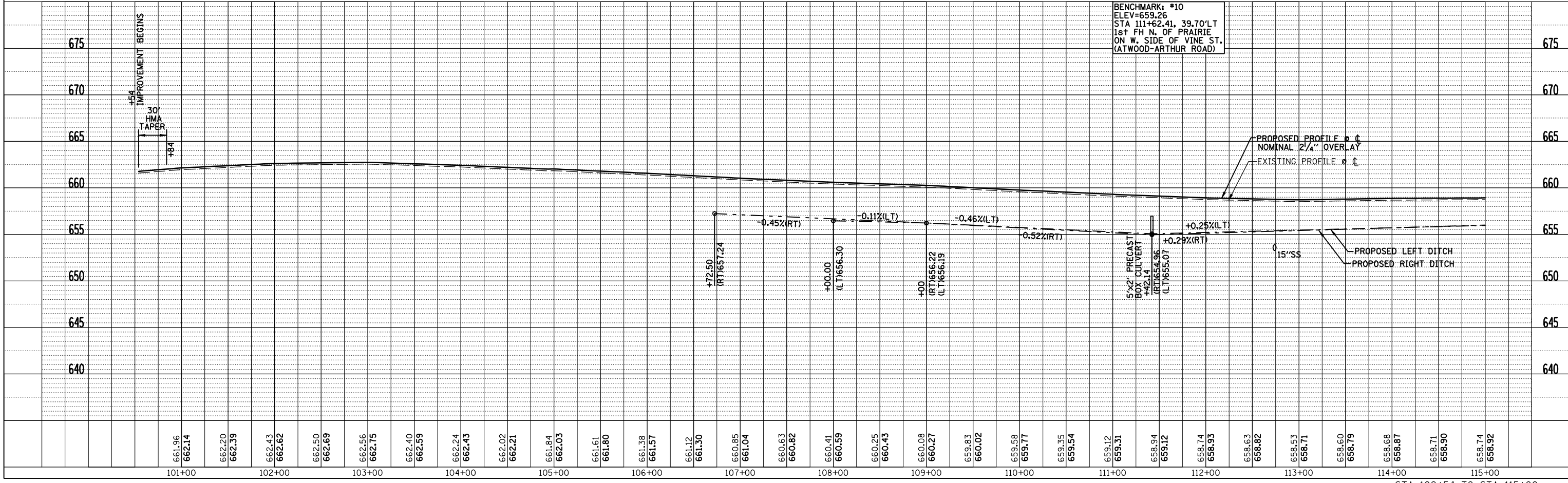


PLAN

SURVEYED	BY	DATE
PLOTTED		
CHECKED		
NO. OF WAY CHECKED		
CADD FILE NAME		

PROFILE

SURVEYED	BY	DATE
PLOTTED		
CHECKED		
NO. NOTED		
STRUCTURE NOTATIONS CHRD		



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6R5-1 & 6R18R	DOUGLAS	176	20
STA. 115+00		TO STA. 130+00		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 90711				

O-S VILLAGE OF TWIN OAKS
(5612005)

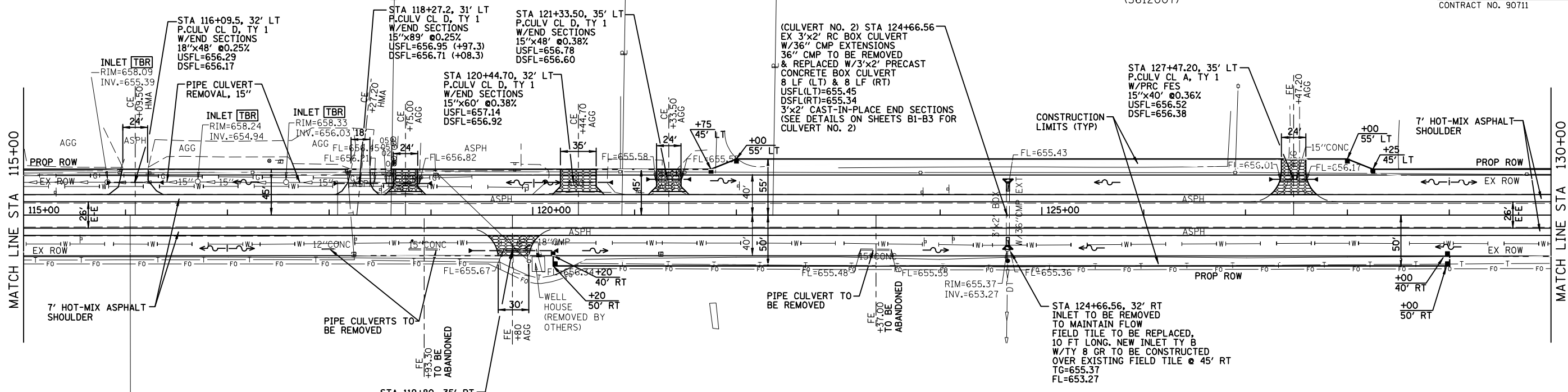
PHYLLIS A. MARTIN
(5612006)

MOULTRIE COUNTY
SE 1/4 SECTION 24, T15N, R6E

LEVI D. AND SOVILLA S. HERSCHBERGER
(5612007)

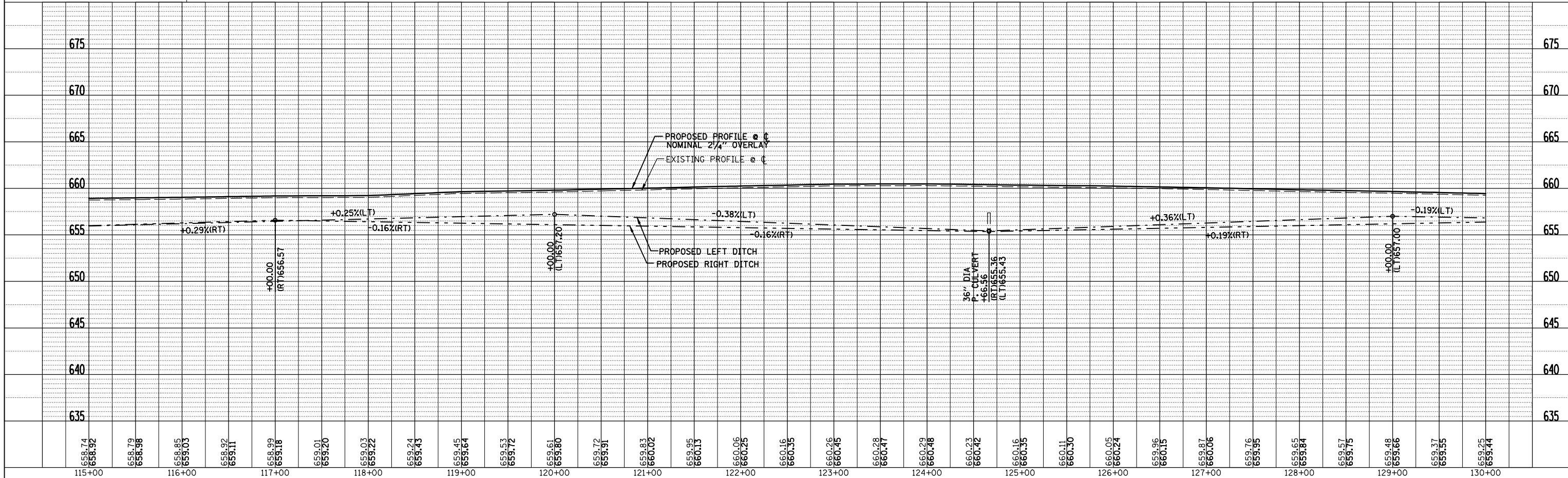
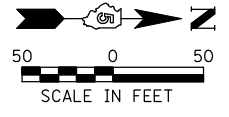
PLAN	SURVEYED	BY	DATE
NO.	NO.		
NO.	NO.		
NO.	NO.		

PROFILE	SURVEYED	BY	DATE
NO.	NO.		
NO.	NO.		
NO.	NO.		



LEGEND	
	AGGREGATE SURFACE COURSE, 6"
	PRC PRECAST REINFORCED CONCRETE
	FES FLARED END SECTION

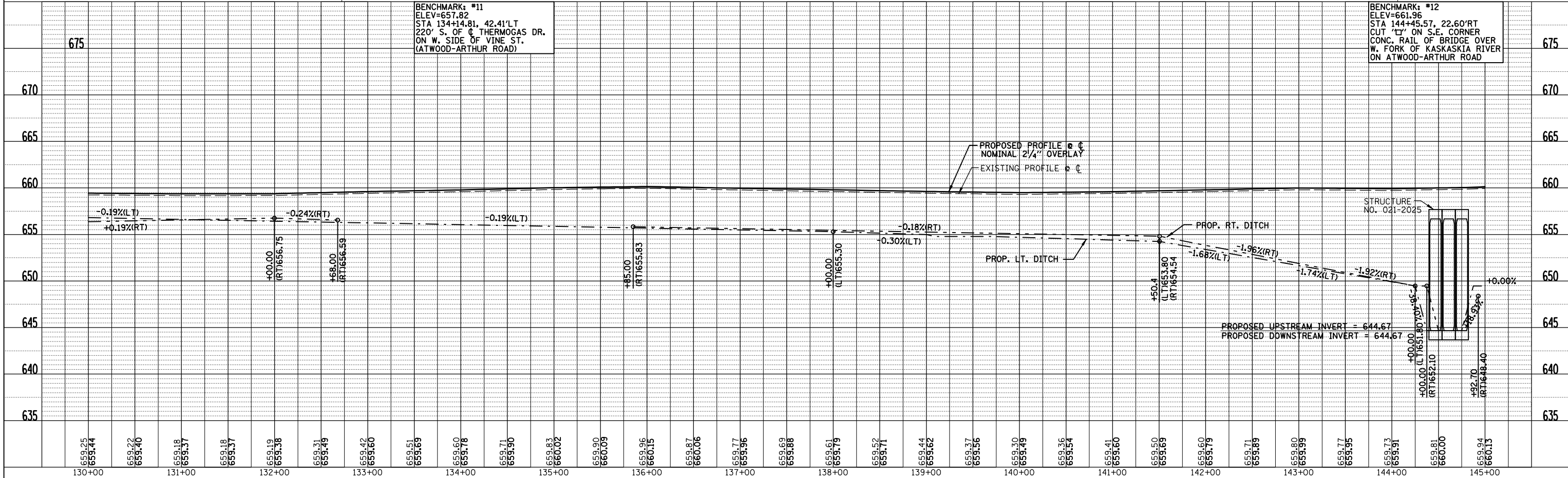
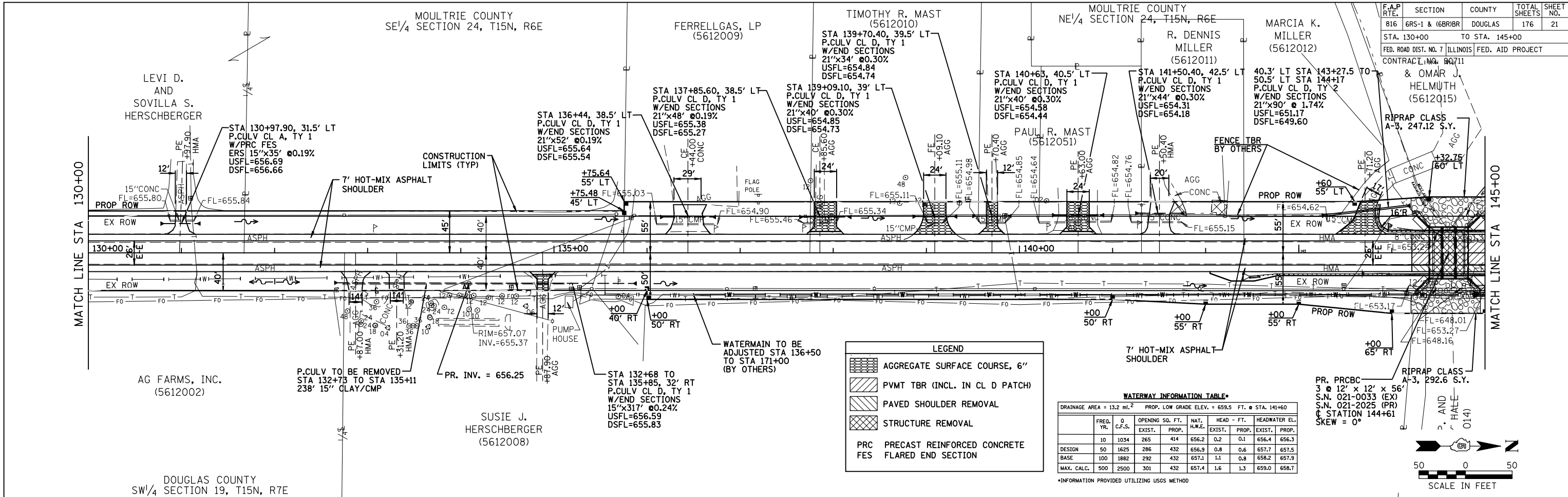
DOUGLAS COUNTY
SW 1/4 SECTION 19, T15N, R7E



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6RS-1 & 6BR1BR	DOUGLAS	176	21
STA. 130+00 TO STA. 145+00		FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT		
CONTRACT NO. 80711		& OMAIR J. HELMUTH (5612015)		

PLAN	SURVEYED	BY	DATE
	NOTED		
	CHECKED		
	BY		
	NO. OF WAY CHECKED		
	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	NOTED		
	CHECKED		
	BY		
	STRUCTURE NOTATIONS CHKD		



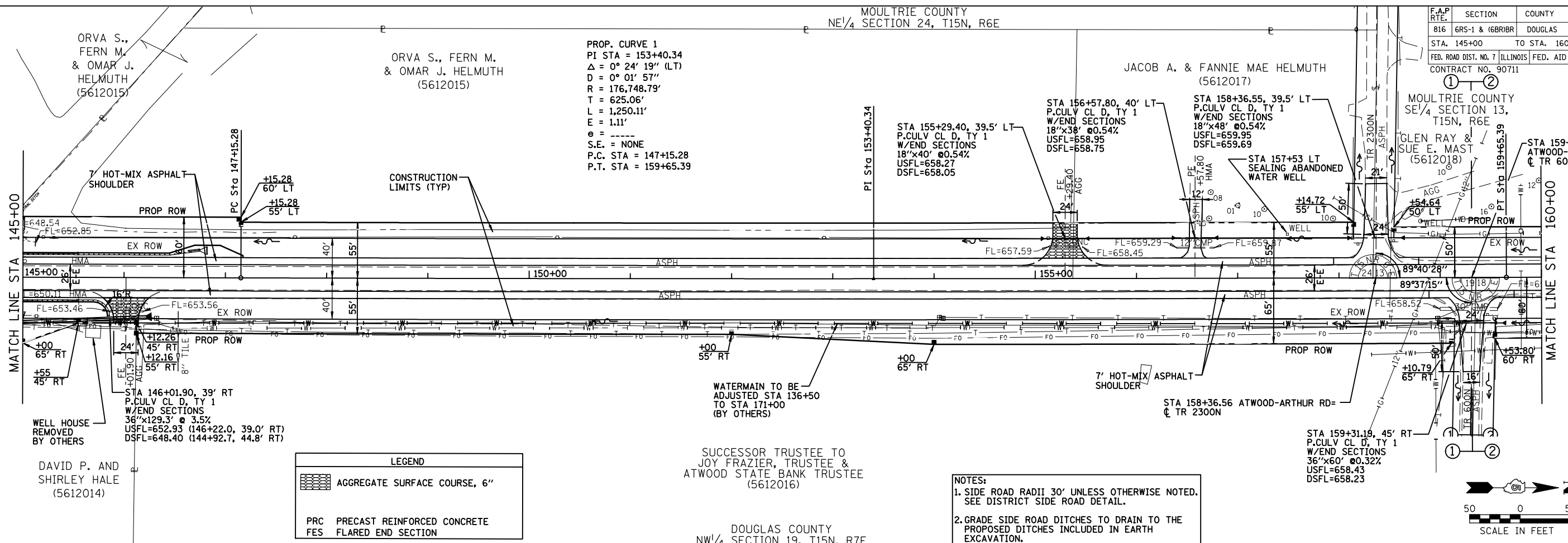
MOULTRIE COUNTY
NE 1/4 SECTION 24, T15N, R6E

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6RS-1 & 16R1BR	DOUGLAS	176	22

STA. 145+00 TO STA. 160+00
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT
CONTRACT NO. 90711

PLAN	DATE
SURVEYED	
PLOTTED	
CHECKED	
NO. OF WAY CHECKED	
CADD FILE NAME	

PROFILE	DATE
SURVEYED	
PLOTTED	
CHECKED	
NO. NOTED	
STRUCTURE NOTATIONS CHRD	

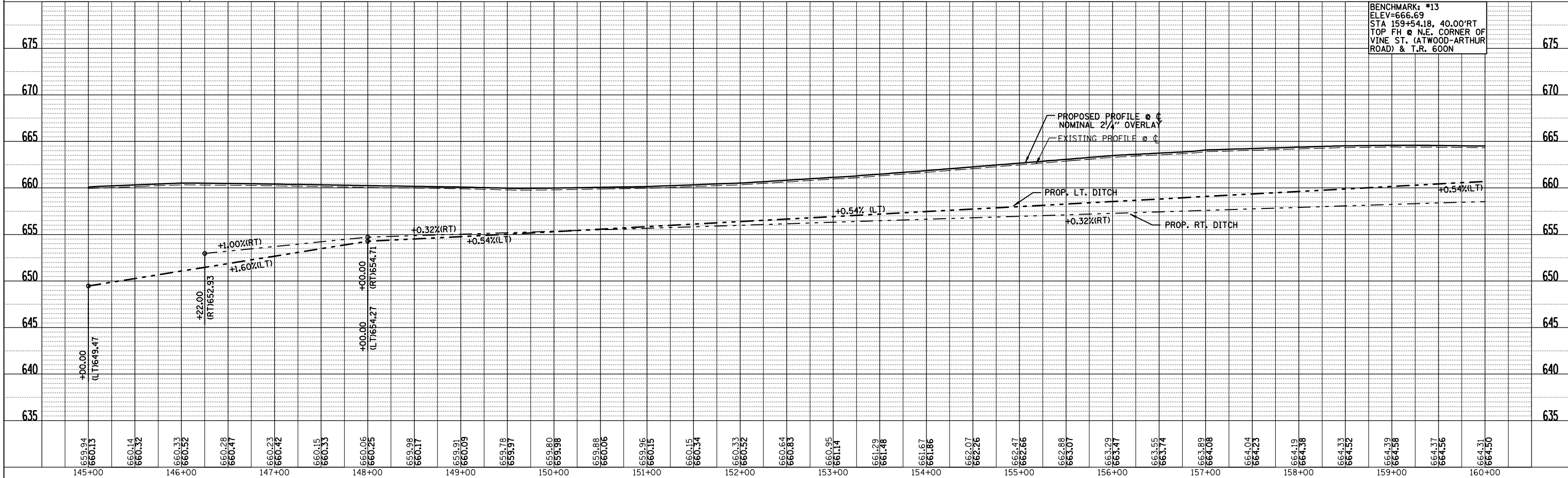


PROP. CURVE 1
PI STA = 153+40.34
Δ = 0° 24' 19" (LT)
D = 0° 01' 57"
R = 176,748.79'
T = 625.06'
L = 1,250.11'
E = 1.11'
S.E. = NONE
P.C. STA = 147+15.28
P.T. STA = 159+65.39

LEGEND

	AGGREGATE SURFACE COURSE, 6"
PRC	PRECAST REINFORCED CONCRETE
FES	FLARED END SECTION

NOTES:
1. SIDE ROAD RADII 30' UNLESS OTHERWISE NOTED. SEE DISTRICT SIDE ROAD DETAIL.
2. GRADE SIDE ROAD DITCHES TO DRAIN TO THE PROPOSED DITCHES INCLUDED IN EARTH EXCAVATION.

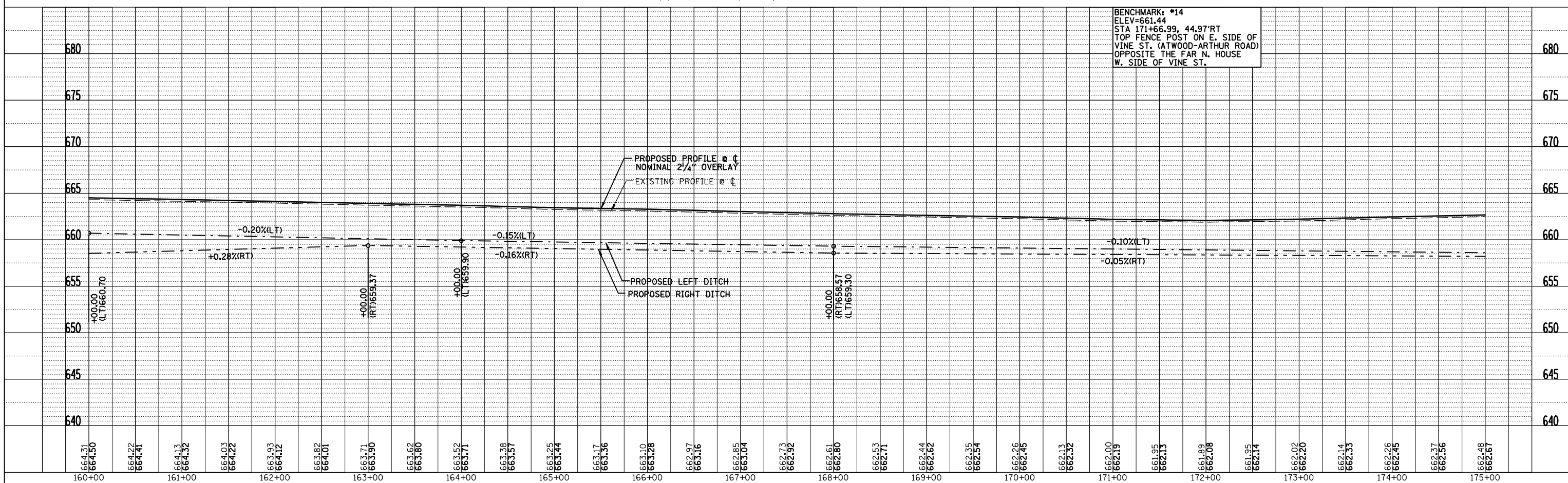
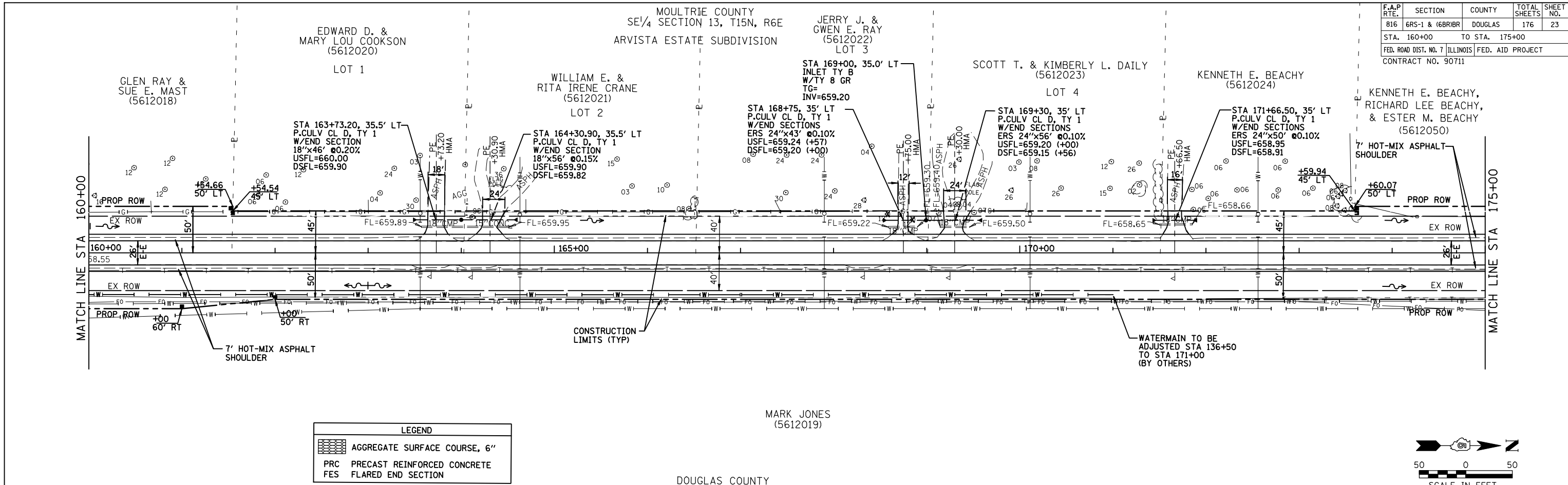


BENCHMARK: #13
ELEV=666.69
STA 159+54.18, 40.00' RT
TOP FH @ N.E. CORNER OF
VINE ST. (ATWOOD-ARTHUR
ROAD) & T.R. 600N

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6RS-1 & 6BRBR	DOUGLAS	176	23
STA. 160+00 TO STA. 175+00		FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT		
CONTRACT NO. 90711				

PLAN	DATE
SURVEYED	
PLOTTED	
CHECKED	
BY	
NO.	

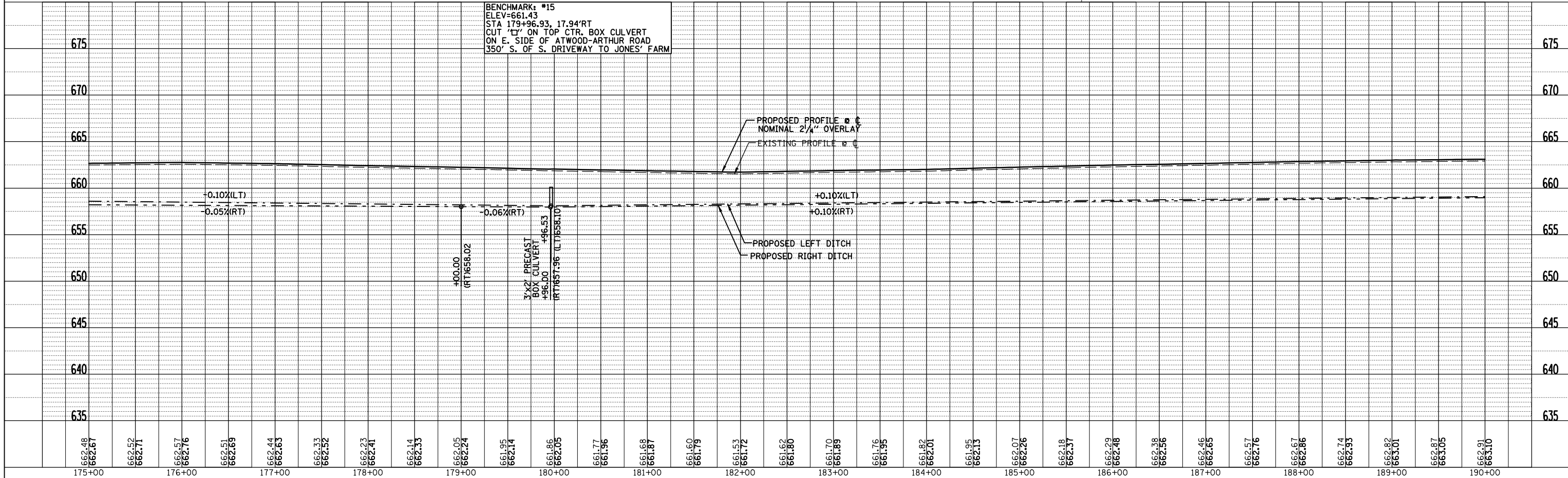
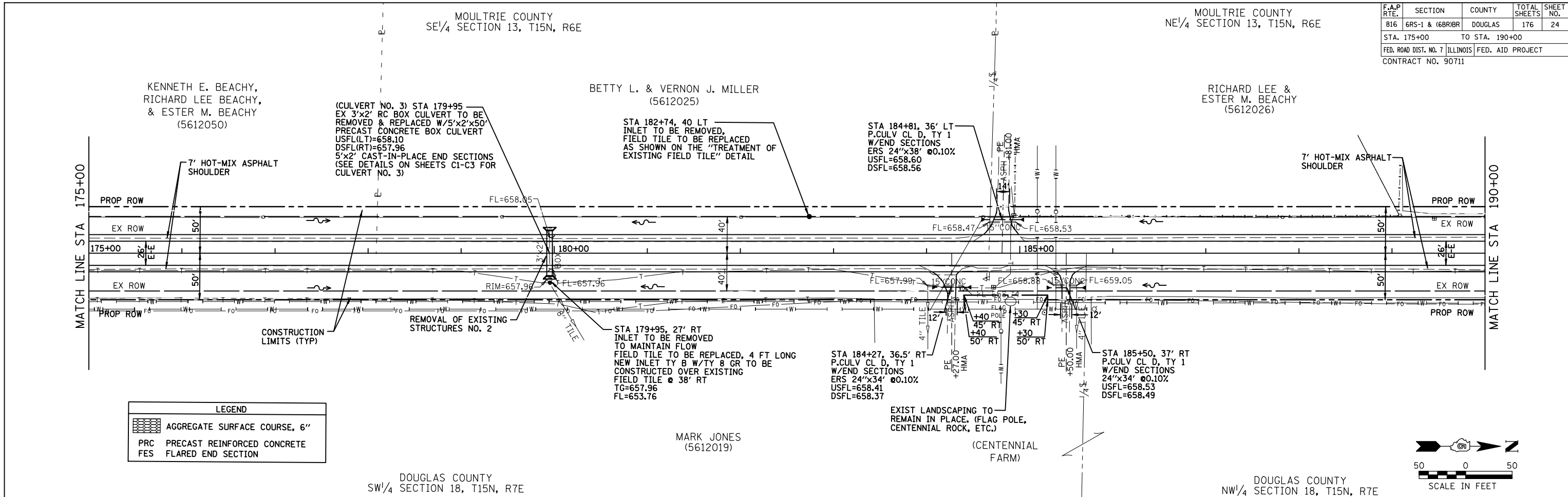
PROFILE	DATE
SURVEYED	
PLOTTED	
CHECKED	
BY	
NO.	



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6RS-1 & 6BRIBR	DOUGLAS	176	24
STA. 175+00		TO STA. 190+00		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 90711				

PLAN	SURVEYED	DATE
NO. _____	BY _____	_____
NOTE BOOK NO. _____	PI. OF WAY CHECKED	
NO. _____	CADD FILE NAME	

PROFILE	SURVEYED	DATE
NO. _____	BY _____	_____
NO. _____	PI. OF WAY CHECKED	
NO. _____	STRUCTURE NOTATIONS CHKD	



MOULTRIE COUNTY
NE 1/4 SECTION 13, T15N, R6E

WATERWAY INFORMATION**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6RS-1 & 6BRIBR	DOUGLAS	176	25
STA. 190+00		TO STA. 205+00		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 90711				

DRAINAGE AREA = 130.2 ACRES		LOW GRADE ELEV. = 663.27		STA. 200+60.56	
FLOOD	FREQ. YR.	Q C.F.S.	OPENING SQ. FT.	NAT. HEAD-FT.	HEADWATER EL.
DESIGN	50	59.2	3 14	660.7	• 0.7 • 661.4
BASE					
OVERTOPPING					
MAX. CALC.					

*ROAD OVERTOPPED
**INFORMATION PROVIDED UTILIZING RATIONAL METHOD

RICHARD LEE &
ESTER M. BEACHY
(5612026)

STA 198+02.30, 36' LT
P.CULV CL D, TY 1
W/END SECTIONS
18"x36" @0.08%
USFL=659.37
DSFL=659.34

STA 200+60, 28' LT
INLET TO BE REMOVED
TO MAINTAIN FLOW
FIELD TILE TO BE REPLACED,
10 FT LONG. NEW INLET TY B
W/ TY 8 GR TO BE
CONSTRUCTED OVER
EXISTING FIELD TILE @ 38' LT
TG=658.82
FL=654.62

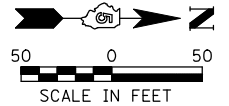
STA 200+21, 34' RT
INLET TO BE REMOVED,
FIELD TILE TO BE REPLACED
AS SHOWN ON THE "TREATMENT OF
EXISTING FIELD TILE" DETAIL

(CULVERT NO. 4) STA 200+60.56
EX 2'x1.5' RC BOX CULVERT TO BE
REMOVED & REPLACED W/7'x2'x50'
PRECAST CONCRETE BOX CULVERT
USFL(RT)=659.20
DSFL(LT)=659.04
7'x2' CAST-IN-PLACE END SECTIONS
(SEE DETAILS ON SHEETS D1-D3 FOR
CULVERT NO. 4)
PROP. S.N. 021-8051

KENNETH D. OHLSEN
(5612027)

MARK JONES
(5612019)

DOUGLAS COUNTY
NW 1/4 SECTION 18, T15N, R7E



LEGEND

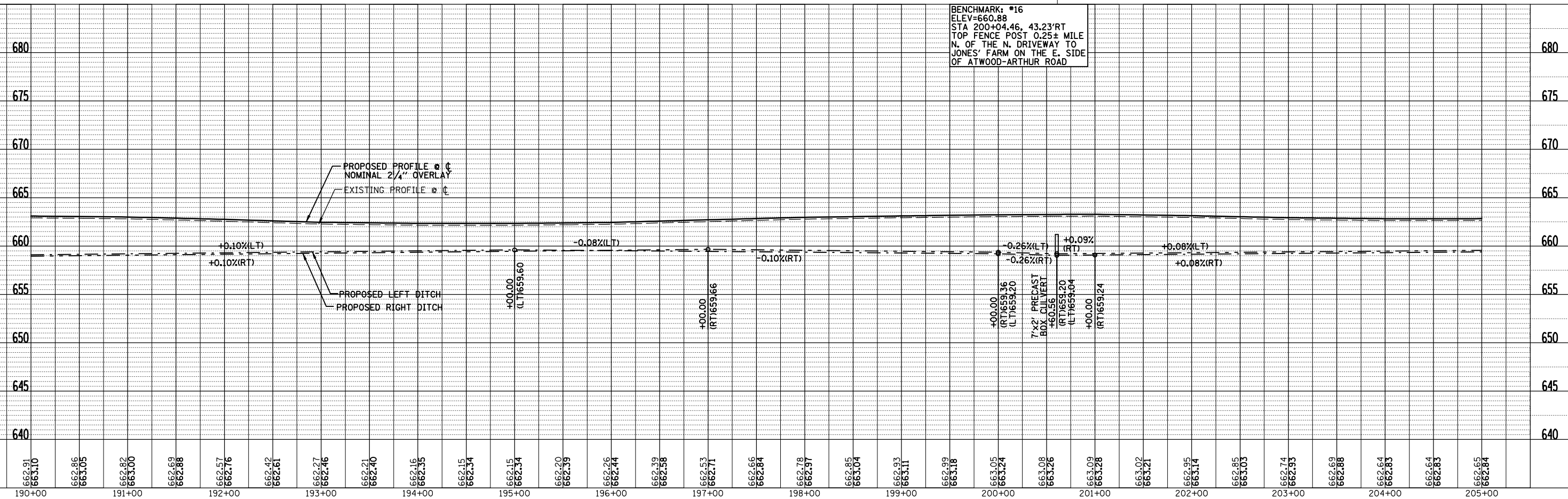
	AGGREGATE SURFACE COURSE, 6"
	PRC PRECAST REINFORCED CONCRETE
	FES FLARED END SECTION

PLAN

DATE	
BY	
SURVEYED	
PLOTTED	
CHECKED	
DATE	
NO. OF WAY CHECKED	
CADD FILE NAME	

PROFILE

DATE	
BY	
SURVEYED	
PLOTTED	
CHECKED	
DATE	
NO. OF WAY CHECKED	
STRUCTURE NOTATIONS CHKD	



MOULTRIE COUNTY
NE 1/4 SECTION 13, T15N, R6E

MOULTRIE COUNTY
SE 1/4 SECTION 12, T15N, R6E

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6RS-1 & 16BR1BR	DOUGLAS	176	26
STA. 205+00		TO STA. 220+00		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 90711				

RICHARD LEE &
ESTER M. BEACHY
(5612026)

JILL K. McNULTY &
JUDITH A. BRIDGES
(5612028)

KENNETH D. OHLSEN
(5612027)

MARK JONES
(5612029)

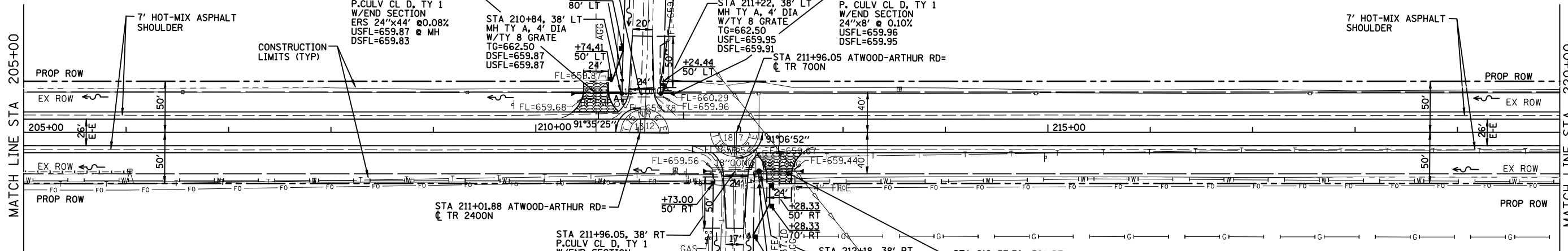
DOUGLAS COUNTY
NW 1/4 SECTION 18, T15N, R7E

DOUGLAS COUNTY
SW 1/4 SECTION 7, T15N, R7E

NOTES:
1. SIDE ROAD RADII 30' UNLESS OTHERWISE NOTED.
SEE DISTRICT SIDE ROAD DETAIL.
2. GRADE SIDE ROAD DITCHES TO DRAIN TO THE
PROPOSED DITCHES INCLUDED IN EARTH
EXCAVATION.

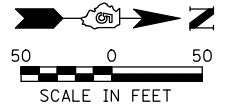
PLAN	DATE
SURVEYED	
PLOTTED	
CHECKED	
BY	
NO. OF WAY CHECKED	
CADD FILE NAME	

PROFILE	DATE
SURVEYED	
PLOTTED	
CHECKED	
BY	
NO. OF WAY CHECKED	
STRUCTURE NOTATIONS CHKD	

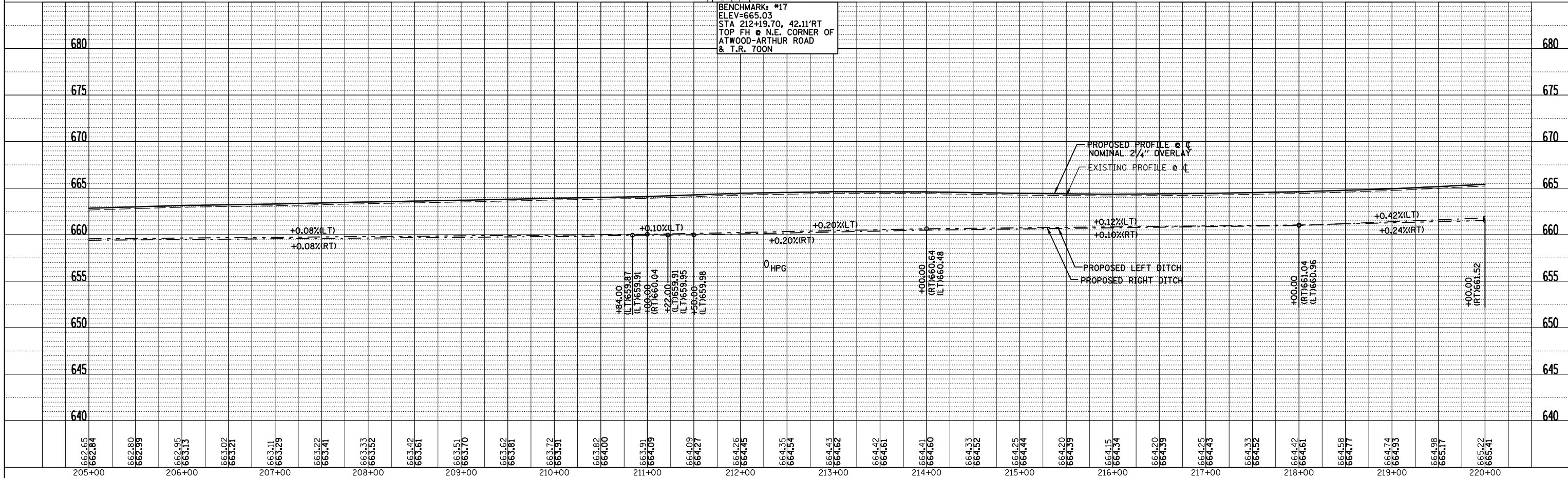


LEGEND

	AGGREGATE SURFACE COURSE, 6"
	PRC PRECAST REINFORCED CONCRETE
	FES FLARED END SECTION



BENCHMARK: #17
ELEV=665.03
STA 212+19.70, 42.11' RT
TOP FH @ N.E. CORNER OF
ATWOOD-ARTHUR ROAD
& T.R. 700N



MOULTRIE COUNTY
SE 1/4 SECTION 12, T15N, R6E

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6RS-1 & (6BR)BR	DOUGLAS	176	27
STA. 220+00		TO STA. 235+00		
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT
CONTRACT NO. 90711				

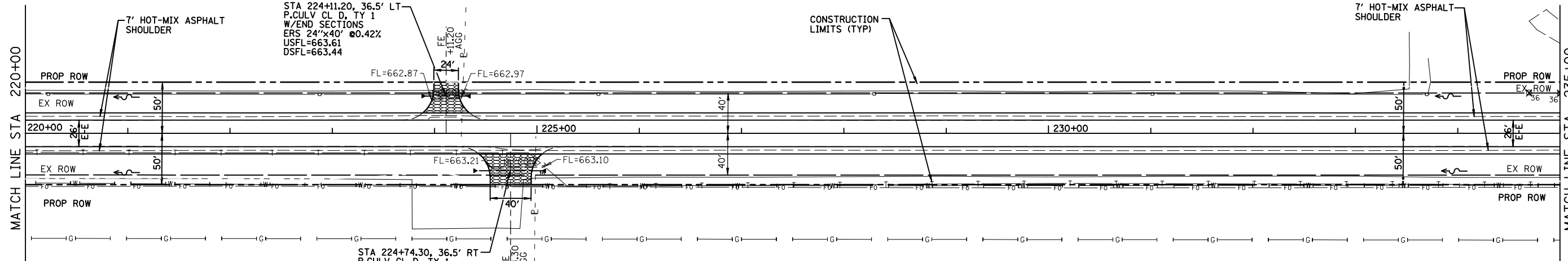
JILL K. McNULTY &
JUDITH A. BRIDGES
(5612028)

ARTHUR COMMUNITY SCHOOL
DISTRICT, NO. 305
(5612030)

STA 224+11.20, 36.5' LT
P.CULV CL D, TY 1
W/END SECTIONS
ERS 24"x40' @0.42%
USFL=663.61
DSFL=663.44

CONSTRUCTION
LIMITS (TYP)

7' HOT-MIX ASPHALT
SHOULDER



LEGEND	
	AGGREGATE SURFACE COURSE, 6"
	PRC PRECAST REINFORCED CONCRETE
	FES FLARED END SECTION

MARK JONES
(5612029)

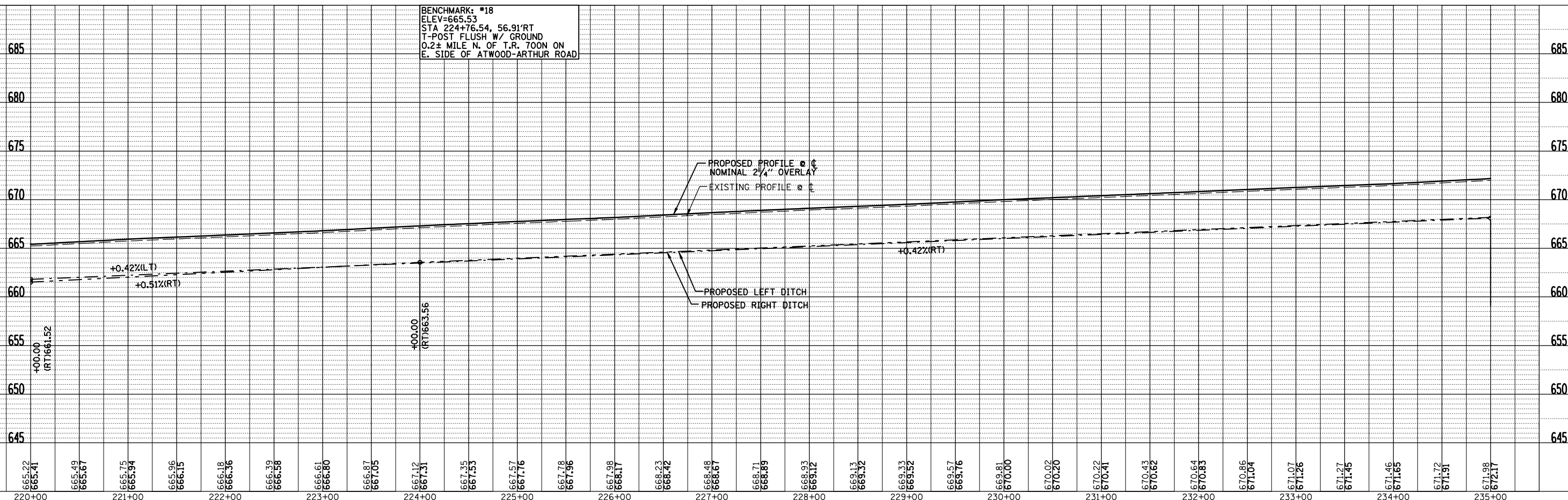
CHERYL S. HILGENBERG,
JAMES MICHAEL TAPEN,
& JENNIFER DALE TAPEN
(5612031)

DOUGLAS COUNTY
SW 1/4 SECTION 7, T15N, R7E



PLAN	DATE
SURVEYED	
PLOTTED	
CHECKED	
BY	
NO.	

PROFILE	DATE
SURVEYED	
PLOTTED	
CHECKED	
BY	
NO.	



FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS

STA 220+00 TO STA 235+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6RS-1 & 16R1BR	DOUGLAS	176	28
STA. 235+00		TO STA. 250+00		
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT
CONTRACT NO. 90711				

MOULTRIE COUNTY
SE 1/4 SECTION 12, T15N, R6E

MOULTRIE COUNTY
NE 1/4 SECTION 12, T15N, R6E

ARTHUR COMMUNITY SCHOOL
DISTRICT, NO. 305
(5612030)

STATE BANK OF ARTHUR,
AS TRUSTEE OF TRUST NO. 489
(5612032)

STA 235+70.60, 38' LT
P.CULV CL D, TY 1
W/END SECTIONS
18"x40' @0.43%
USFL=668.49
DSFL=668.31

STA 236+83.40, 38' LT
P.CULV CL D, TY 1
W/END SECTIONS
18"x40' @0.43%
USFL=668.98
DSFL=668.81

STA 237+86.2, 38' LT
P.CULV CL D, TY 1
W/END SECTIONS
18"x40' @0.43%
USFL=669.42
DSFL=669.24

STA 237+86.20, 37' RT
P.CULV CL D, TY 1
W/END SECTIONS
18"x80' @0.42%
USFL=669.64
DSFL=669.30

CHERYL S. HILGENBERG,
JAMES MICHAEL TAPEN,
& JENNIFER DALE TAPEN
(5612031)

STEPHEN K. JURGENS
(5612033)

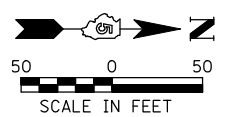
DOUGLAS COUNTY
SW 1/4 SECTION 7, T15N, R7E

DOUGLAS COUNTY
NW 1/4 SECTION 7, T15N, R7E

7' HOT-MIX ASPHALT
SHOULDER

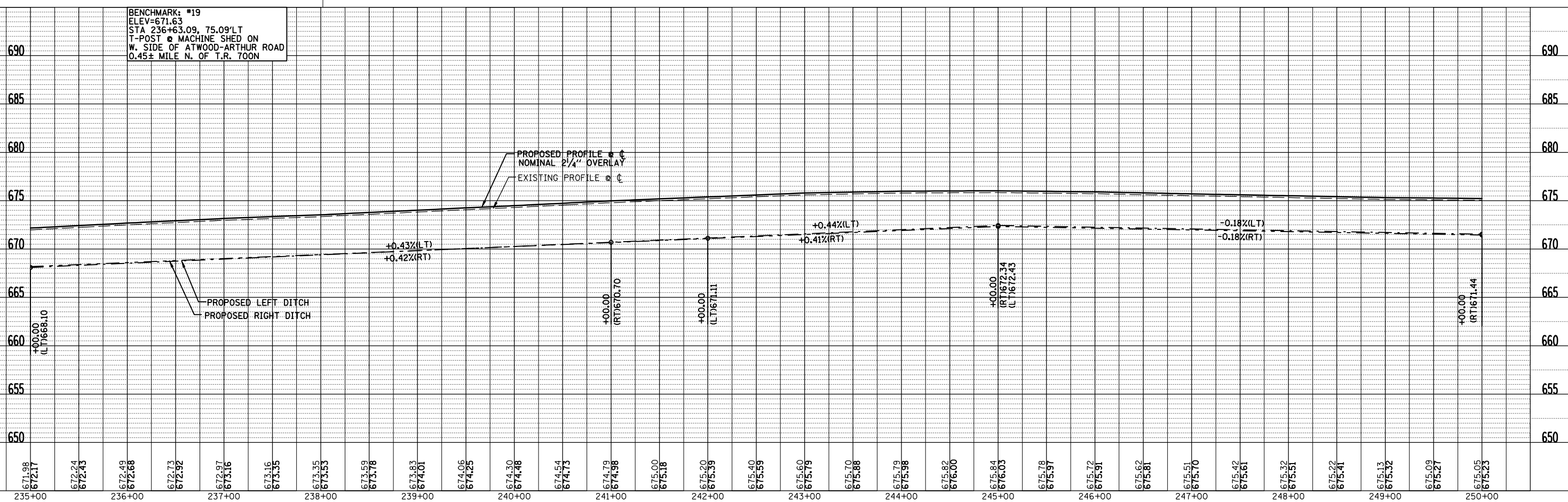
CONSTRUCTION
LIMITS (TYP)

WATERMAIN TO BE
ADJUSTED STA 239+00
TO STA 243+00
(BY OTHERS)



PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	NO. OF WAY CHECKED		
	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	NO. NOTED		
	STRUCTURE NOTATIONS CHRD		



FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS STA 235+00 TO STA 250+00

MOULTRIE COUNTY
NE 1/4 SECTION 12, T15N, R6E

STATE BANK OF ARTHUR,
AS TRUSTEE OF TRUST NO. 489
(5612034)

CHICAGO TITLE AND TRUST COMPANY
(5612035)

DOUGLAS COUNTY
NW 1/4 SECTION 7, T15N, R7E

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6RS-1 & (6BR)BR	DOUGLAS	176	29

STA.	TO STA.
250+00	265+00

CONTRACT NO.	SECTION	USFL	DSFL
90711	STA 264+15, 39' LT	0.10%	673.85
	STA 264+38.10, 37' LT	0.07%	673.90
	STA 264+36.55, 37' RT	0.27%	674.07

CONTRACT NO.	SECTION	USFL	DSFL
90711	STA 263+68, 37' LT	0.22%	673.80
	STA 263+75, 39' LT	0.10%	673.85
	STA 263+93.33, 37' LT	0.22%	673.89

CONTRACT NO.	SECTION	USFL	DSFL
90711	STA 251+93.89, 25' RT	0.12%	669.10
	STA 251+11.60, 37' RT	0.12%	671.29
	STA 251+93.17, 18.01' LT	0.16%	671.45

CONTRACT NO.	SECTION	USFL	DSFL
90711	STA 264+36.55, 37' RT	0.27%	674.07
	STA 264+36.55, 37' RT	0.27%	674.07
	STA 264+36.55, 37' RT	0.27%	674.07

CONTRACT NO.	SECTION	USFL	DSFL
90711	STA 264+36.55, 37' RT	0.27%	674.07
	STA 264+36.55, 37' RT	0.27%	674.07
	STA 264+36.55, 37' RT	0.27%	674.07

CONTRACT NO.	SECTION	USFL	DSFL
90711	STA 264+36.55, 37' RT	0.27%	674.07
	STA 264+36.55, 37' RT	0.27%	674.07
	STA 264+36.55, 37' RT	0.27%	674.07

CONTRACT NO.	SECTION	USFL	DSFL
90711	STA 264+36.55, 37' RT	0.27%	674.07
	STA 264+36.55, 37' RT	0.27%	674.07
	STA 264+36.55, 37' RT	0.27%	674.07

CONTRACT NO.	SECTION	USFL	DSFL
90711	STA 264+36.55, 37' RT	0.27%	674.07
	STA 264+36.55, 37' RT	0.27%	674.07
	STA 264+36.55, 37' RT	0.27%	674.07

CONTRACT NO.	SECTION	USFL	DSFL
90711	STA 264+36.55, 37' RT	0.27%	674.07
	STA 264+36.55, 37' RT	0.27%	674.07
	STA 264+36.55, 37' RT	0.27%	674.07

CONTRACT NO.	SECTION	USFL	DSFL
90711	STA 264+36.55, 37' RT	0.27%	674.07
	STA 264+36.55, 37' RT	0.27%	674.07
	STA 264+36.55, 37' RT	0.27%	674.07

CONTRACT NO.	SECTION	USFL	DSFL
90711	STA 264+36.55, 37' RT	0.27%	674.07
	STA 264+36.55, 37' RT	0.27%	674.07
	STA 264+36.55, 37' RT	0.27%	674.07

CONTRACT NO.	SECTION	USFL	DSFL
90711	STA 264+36.55, 37' RT	0.27%	674.07
	STA 264+36.55, 37' RT	0.27%	674.07
	STA 264+36.55, 37' RT	0.27%	674.07

CONTRACT NO.	SECTION	USFL	DSFL
90711	STA 264+36.55, 37' RT	0.27%	674.07
	STA 264+36.55, 37' RT	0.27%	674.07
	STA 264+36.55, 37' RT	0.27%	674.07

CONTRACT NO.	SECTION	USFL	DSFL
90711	STA 264+36.55, 37' RT	0.27%	674.07
	STA 264+36.55, 37' RT	0.27%	674.07
	STA 264+36.55, 37' RT	0.27%	674.07

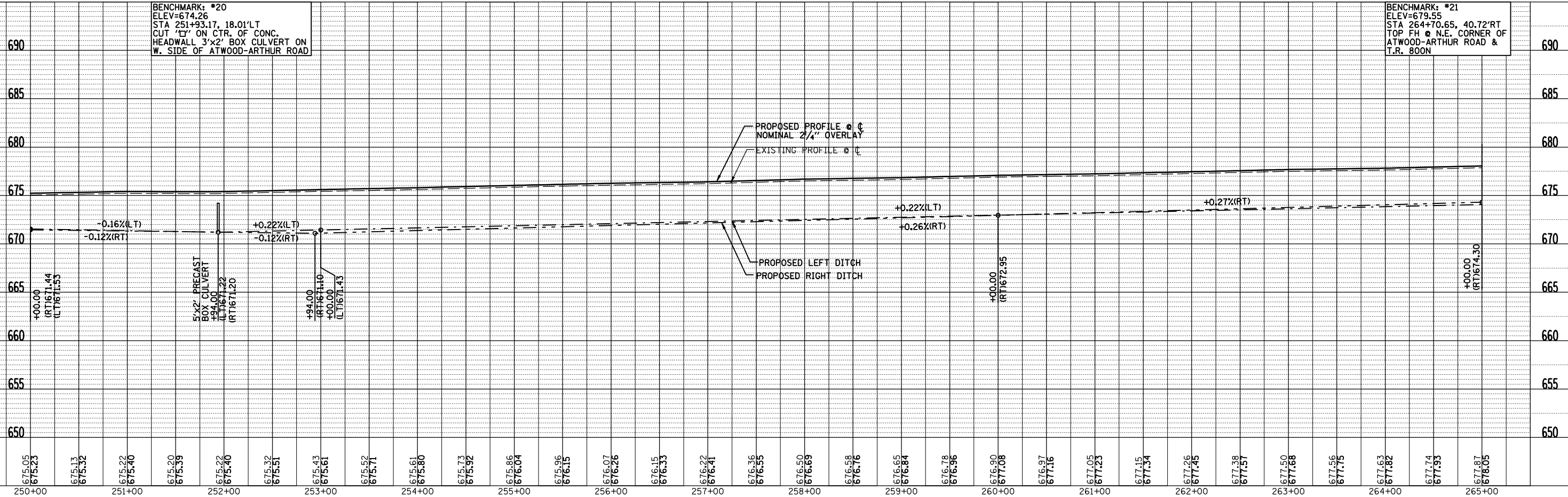
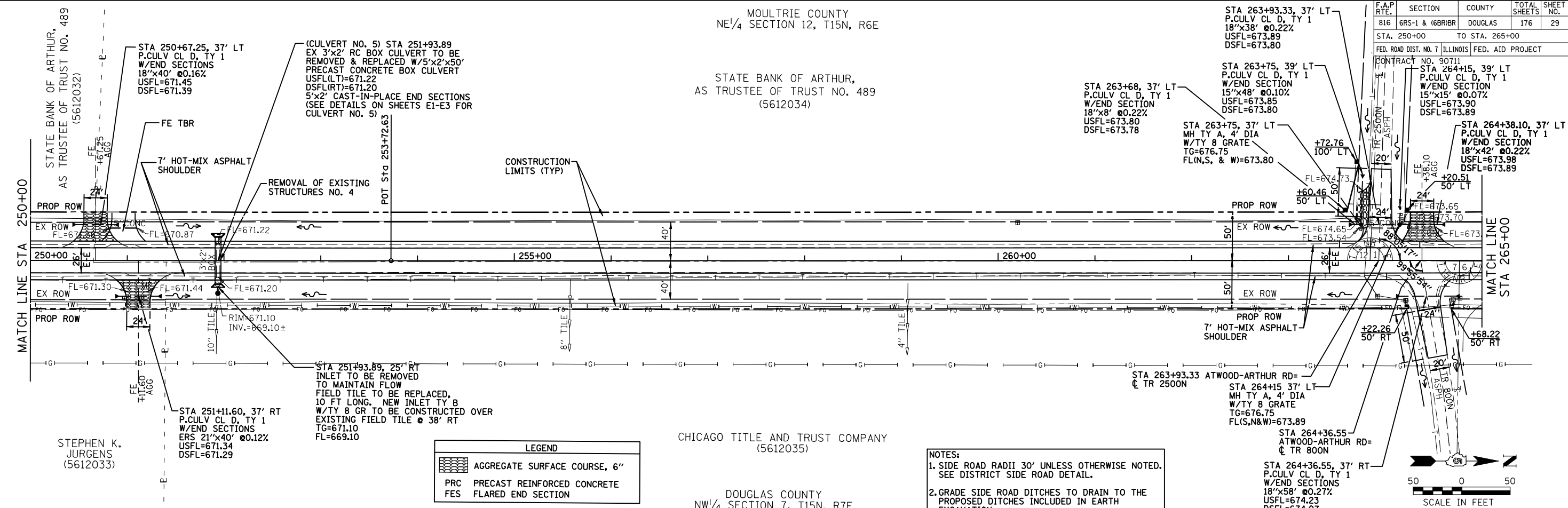
CONTRACT NO.	SECTION	USFL	DSFL
90711	STA 264+36.55, 37' RT	0.27%	674.07
	STA 264+36.55, 37' RT	0.27%	674.07
	STA 264+36.55, 37' RT	0.27%	674.07

CONTRACT NO.	SECTION	USFL	DSFL
90711	STA 264+36.55, 37' RT	0.27%	674.07
	STA 264+36.55, 37' RT	0.27%	674.07
	STA 264+36.55, 37' RT	0.27%	674.07

CONTRACT NO.	SECTION	USFL	DSFL
90711	STA 264+36.55, 37' RT	0.27%	674.07
	STA 264+36.55, 37' RT	0.27%	674.07
	STA 264+36.55, 37' RT	0.27%	674.07

PLAN	DATE

PROFILE	DATE



FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS STA 250+00 TO STA 265+00

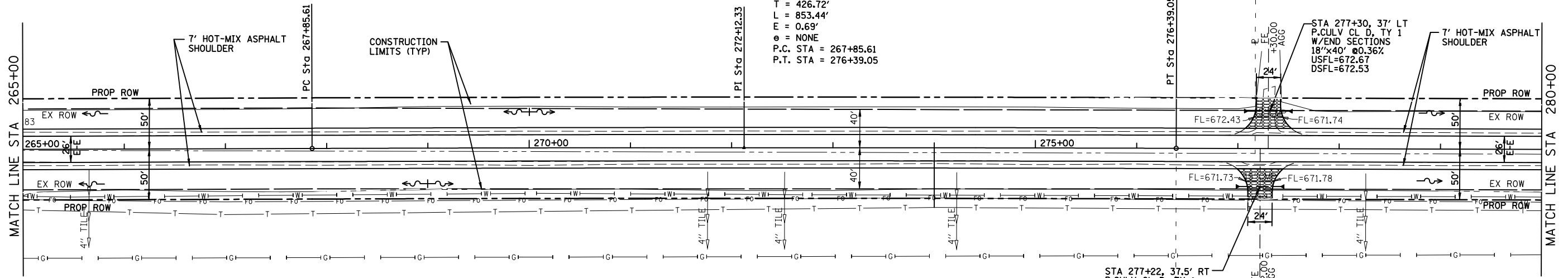
MOULTRIE COUNTY
SE 1/4 SECTION 1, T15N, R6E

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6RS-1 & (6BR)BR	DOUGLAS	176	30
STA. 265+00 TO STA. 280+00				
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT		
CONTRACT NO. 90711				

RICHARD E. TAYLOR
(5612037)

UNIVERSITY OF ILLINOIS
(5612038)

PROP. CURVE 2
PI STA = 272+12.33
 $\Delta = 0^\circ 22' 17''$ (RT)
D = $0^\circ 02' 37''$
R = 131,676.20'
T = 426.72'
L = 853.44'
E = 0.69'
e = NONE
P.C. STA = 267+85.61
P.T. STA = 276+39.05



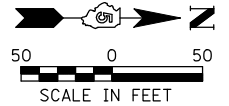
LEGEND

	AGGREGATE SURFACE COURSE, 6"
	PRC PRECAST REINFORCED CONCRETE
	FES FLARED END SECTION

UNIVERSITY OF ILLINOIS
(5612036)

STA 277+22, 37.5' RT
P.CULV CL D, TY 1
W/END SECTIONS
15"x40' @0.34%
USFL=672.57
DSFL=672.43

STA 277+30, 37' LT
P.CULV CL D, TY 1
W/END SECTIONS
18"x40' @0.36%
USFL=672.67
DSFL=672.53



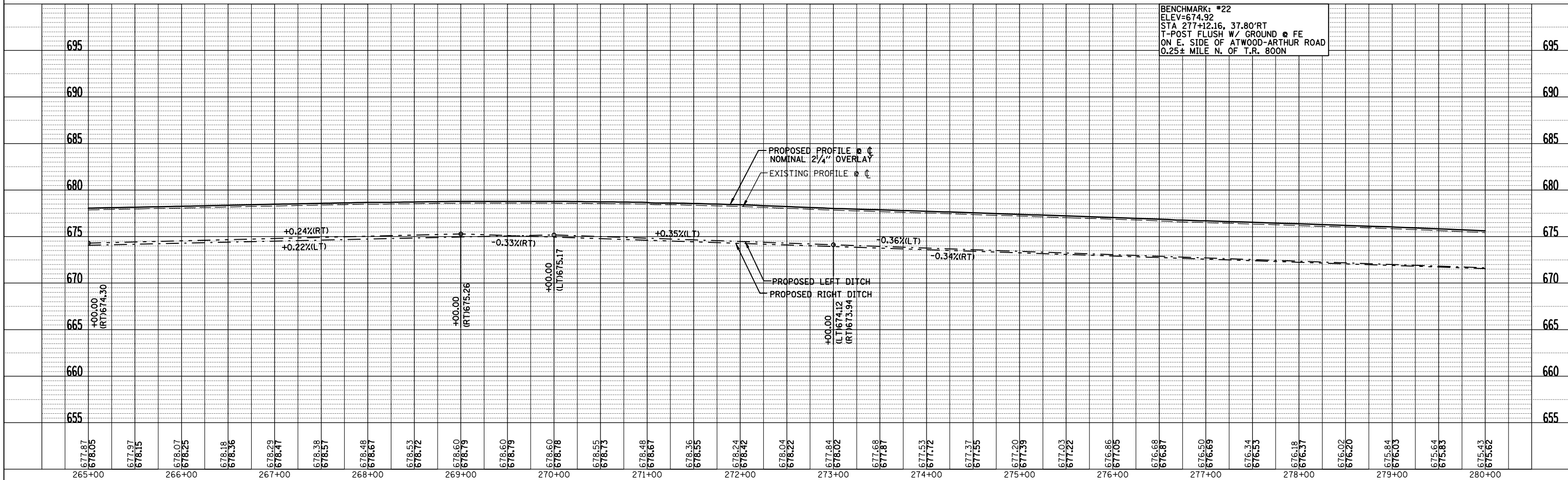
DOUGLAS COUNTY
SW 1/4 SECTION 6, T15N, R7E

PLAN

SURVEYED	BY	DATE
PLOTTED		
NOTED		
NO. OF WAY CHECKED		
NO. OF CADD FILE NAME		

PROFILE

SURVEYED	BY	DATE
PLOTTED		
NOTED		
NO. OF STRUCTURE NOTATIONS CHKD		



MOULTRIE COUNTY
SE 1/4 SECTION 1, T15N, R6E

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6RS-1 & (6BR)BR	DOUGLAS	176	31
STA. 280+00		TO STA. 295+00		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 90711				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	NO. OF WAY CHECKED		
	CADD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	B.M. NOTED		
	STRUCTURE NOTATIONS CHKD		

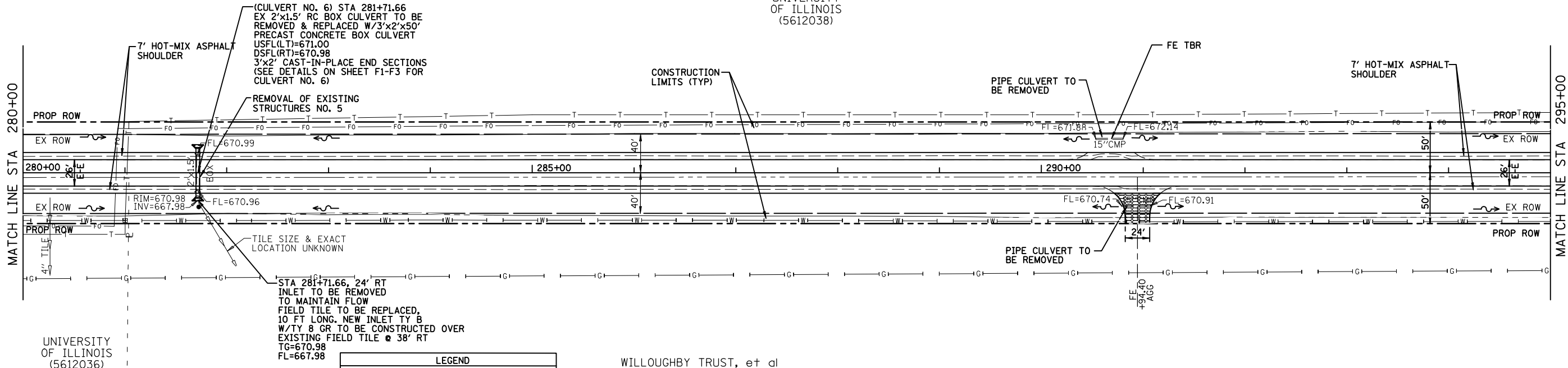
UNIVERSITY OF ILLINOIS
(5612038)

CONSTRUCTION LIMITS (TYP)

PIPE CULVERT TO BE REMOVED

FE TBR

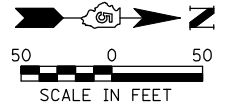
7' HOT-MIX ASPHALT SHOULDER



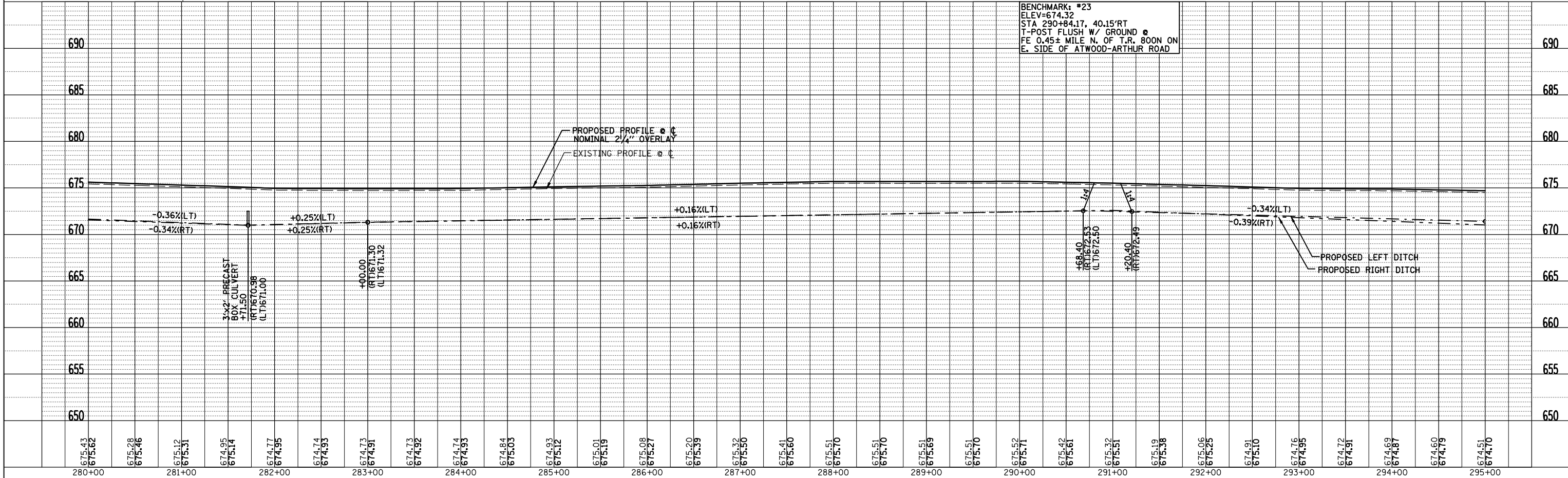
LEGEND	
	AGGREGATE SURFACE COURSE, 6"
	PRC PRECAST REINFORCED CONCRETE
	FES FLARED END SECTION

WILLOUGHBY TRUST, et al
(5612039)

DOUGLAS COUNTY
SW 1/4 SECTION 6, T15N, R7E



BENCHMARK: *23
ELEV=674.32
STA 290+84.17, 40.15' RT
T-POST FLUSH W/ GROUND @
FE 0.45+ MILE N. OF T.R. 800N ON
E. SIDE OF ATWOOD-ARTHUR ROAD



MOULTRIE COUNTY
SE 1/4 SECTION 1, T15N, R6E

MOULTRIE COUNTY
NE 1/4 SECTION 1, T15N, R6E

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6RS-1 & 6BR/BR	DOUGLAS	176	32
STA. 295+00 TO STA. 310+00				
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT	
CONTRACT NO. 90711				

UNIVERSITY OF ILLINOIS
(5612038)

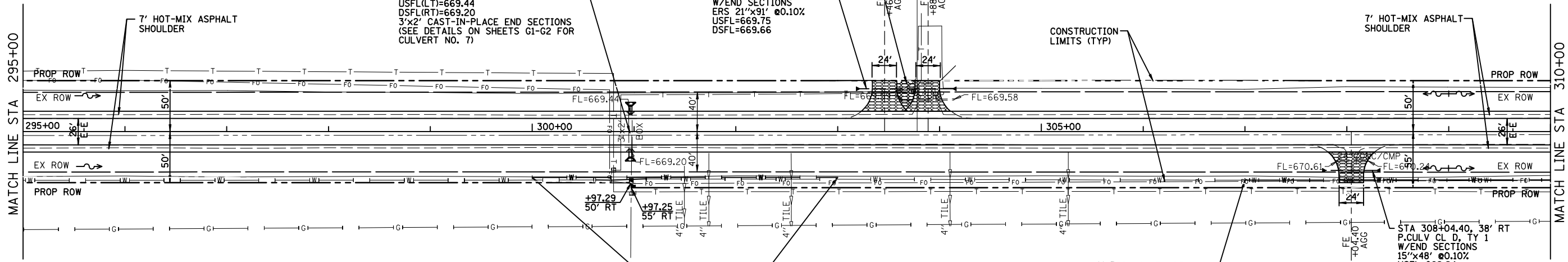
(CULVERT NO. 7) STA 300+96.63
EX 3'x2' BOX CULVERT TO BE
EXTENDED W/3'x2' PRECAST CONCRETE
BOX CULVERT 8 LF(LT) & 8 LF(RT)
USFL(LT)=669.44
DSFL(RT)=669.20
3'x2' CAST-IN-PLACE END SECTIONS
(SEE DETAILS ON SHEETS G1-G2 FOR
CULVERT NO. 7)

FILL BETWEEN ENTRANCES
WITH EARTH AND TOP WITH
6" OF AGG. SURFACE. CSE.

STA 303+88.80, 42' LT
P.CULV CL D, TY 1
W/END SECTIONS
ERS 21'x91' @0.10%
USFL=669.75
DSFL=669.66

RICHARD E. & FLOUSSIE B.
TAYLOR
(5612041)

7' HOT-MIX ASPHALT
SHOULDER



WILLOUGHBY TRUST, et al
(5612039)

WATERMAIN TO BE
ADJUSTED STA 300+00
TO STA 303+00
(BY OTHERS)

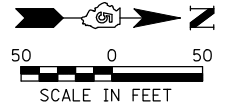
LEOTA DUKEMAN TRUST, et al
(5612040)

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

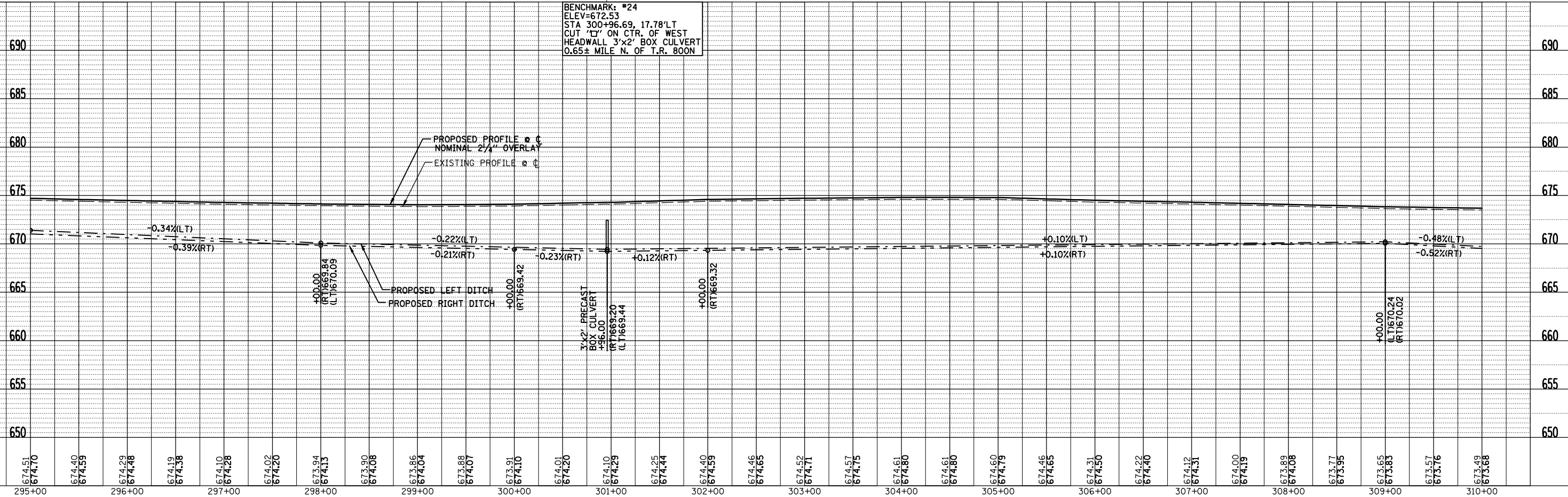
LEGEND	
	AGGREGATE SURFACE COURSE, 6"
	PRECAST REINFORCED CONCRETE
	FLARED END SECTION

DOUGLAS COUNTY
SW 1/4 SECTION 6, T15N, R7E

DOUGLAS COUNTY
NW 1/4 SECTION 6, T15N, R7E



BENCHMARK #24
ELEV=672.53
STA 300+96.69, 17.78' LT
CUT "C" ON CTR. OF WEST
HEADWALL 3'x2' BOX CULVERT
0.65± MILE N. OF T.R. 800N



FARNSWORTH GROUP, INC. CONSULTING ENGINEERS - BLOOMINGTON, ILLINOIS

STA 295+00 TO STA 310+00

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	NO. OF WAYS CHECKED		
	DATE FILE NAME		

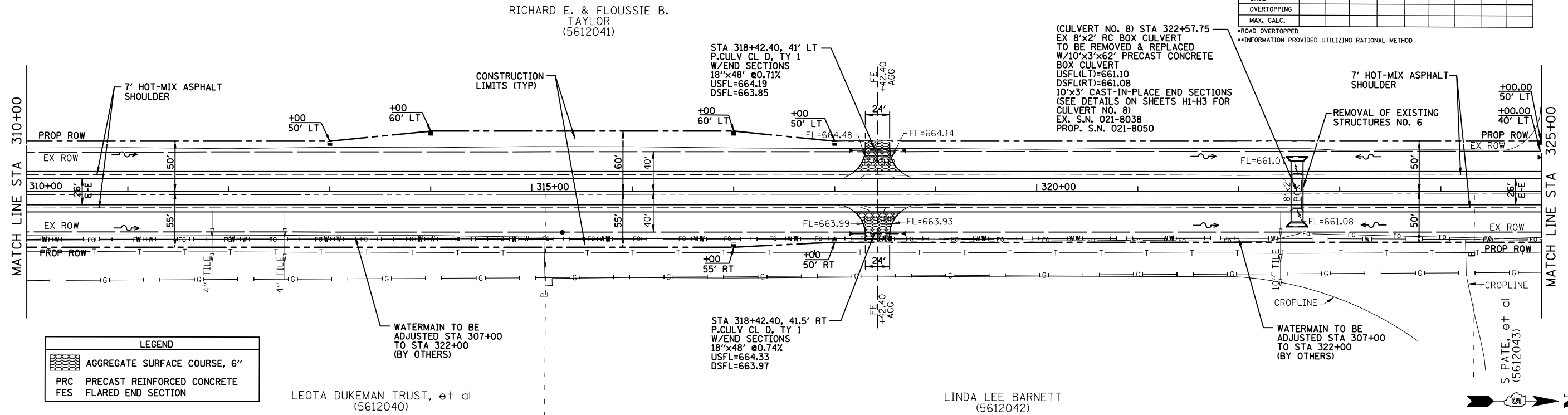
PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	NO. OF WAYS CHECKED		
	STRUCTURE NOTATIONS CHRD		

MOULTRIE COUNTY
NE 1/4 SECTION 1, T15N, R6E

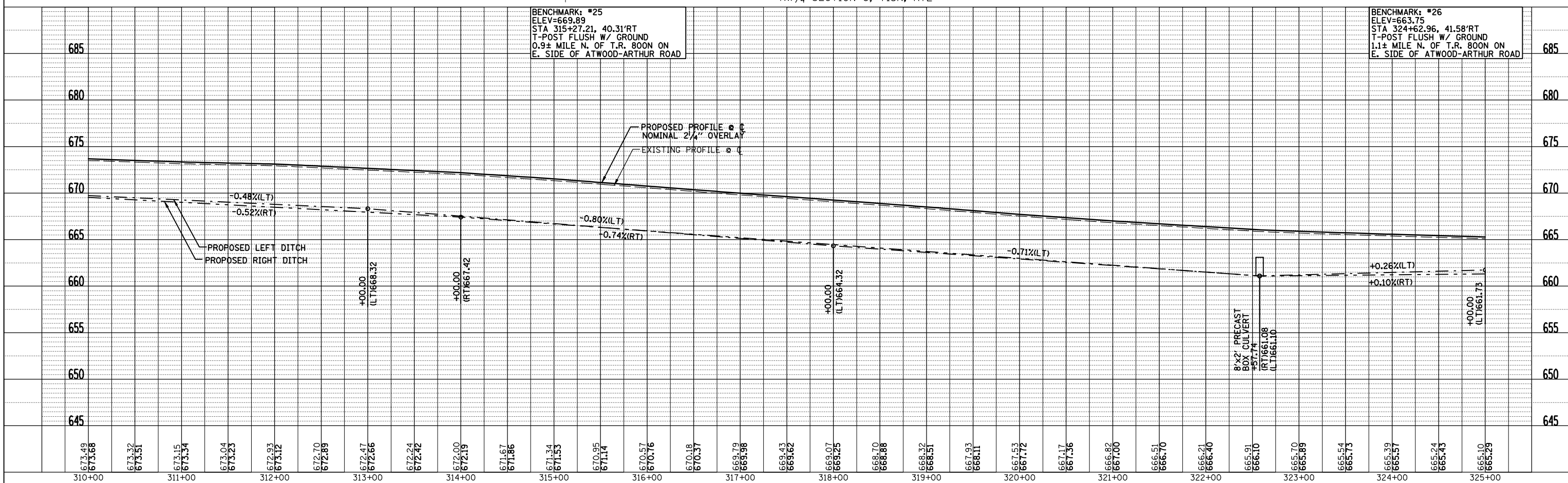
WATERWAY INFORMATION
SECTION 1 & 6 (BR)BR DOUGLAS 176 33

FLOOD	FREQ. YR.	Q C.F.S.	OPENING SQ. FT.	NAT. EXIST.	PROP.	H.W.E.	NAT. EXIST.	PROP.	CONTRACT NO.	DATE
DESIGN	50	121.0	16	30	663.4					
BASE										
OVERTOPPING										
MAX. CALC.										

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	NO. OF WAYS CHECKED		
	DATE FILE NAME		



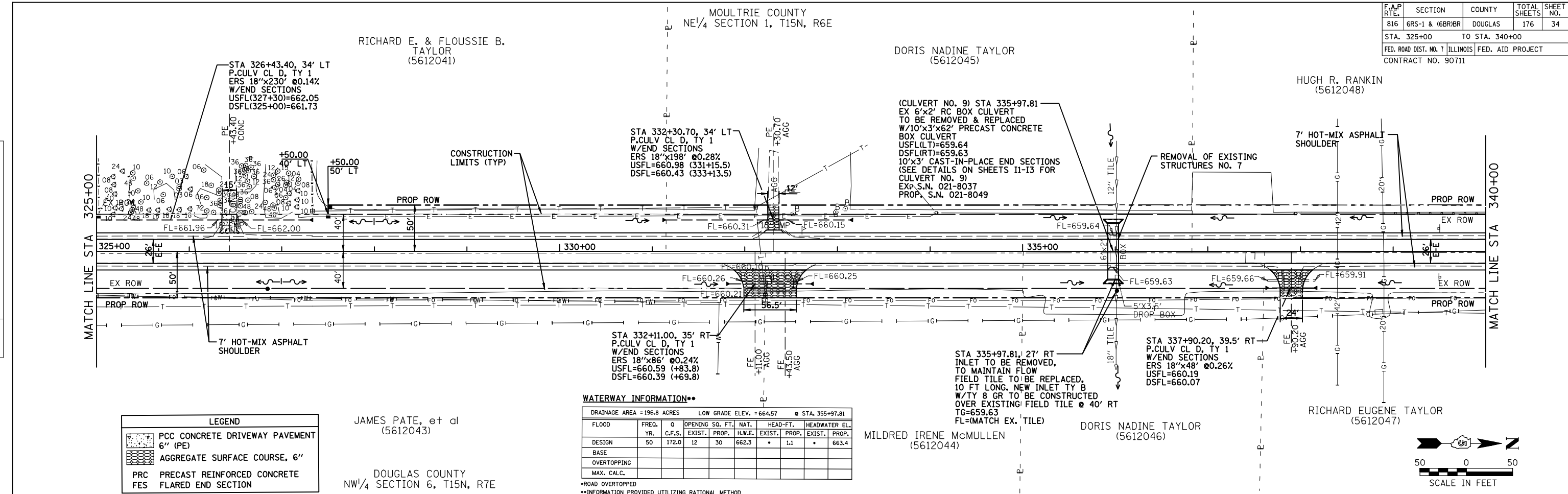
PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	CHECKED		
	NO. OF WAYS CHECKED		
	DATE FILE NAME		



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6RS-1 & (6BR)BR	DOUGLAS	176	34
STA. 325+00		TO STA. 340+00		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 90711				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	NOTED		
	NO. OF WAY CHECKED		
	NO.		

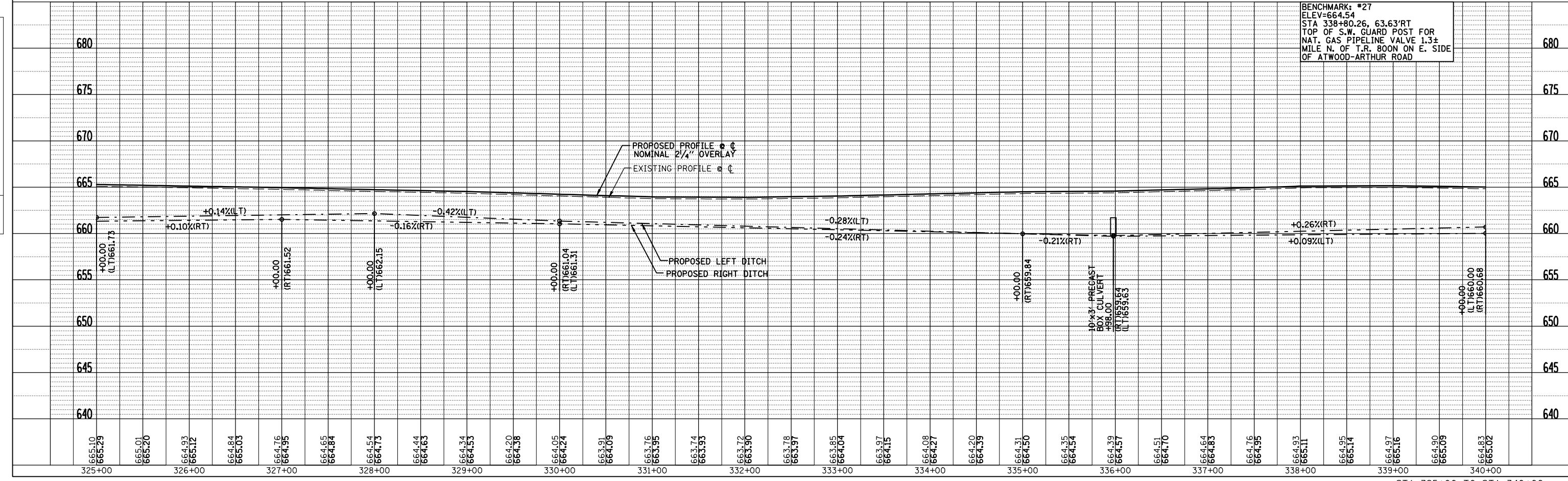
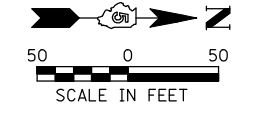
PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	NOTED		
	NO. OF WAY CHECKED		
	NO.		



LEGEND	
	PCC CONCRETE DRIVEWAY PAVEMENT 6" (PE)
	AGGREGATE SURFACE COURSE, 6"
	PRC PRECAST REINFORCED CONCRETE
	FES FLARED END SECTION

DRAINAGE AREA = 196.8 ACRES LOW GRADE ELEV. = 664.57 STA. 355+97.81									
FLOOD	FREQ.	0	OPENING SQ. FT.	NAT.	HEAD-FT.	HEADWATER EL.			
DESIGN	50	172.0	12	30	662.3	1.1			
BASE									
OVERTOPPING									
MAX. CALC.									

*ROAD OVERTOPPED
**INFORMATION PROVIDED UTILIZING RATIONAL METHOD



BENCHMARK: #27
ELEV=664.54
STA 338+80.26, 63.63'RT
TOP OF S.W. GUARD POST FOR
NAT. GAS PIPELINE VALVE 1.3±
MILE N. OF T.R. BOON ON E. SIDE
OF ATWOOD-ARTHUR ROAD

MOULTRIE COUNTY
NE 1/4 SECTION 1, T15N, R6E

HUGH R. RANKIN
(5612048)

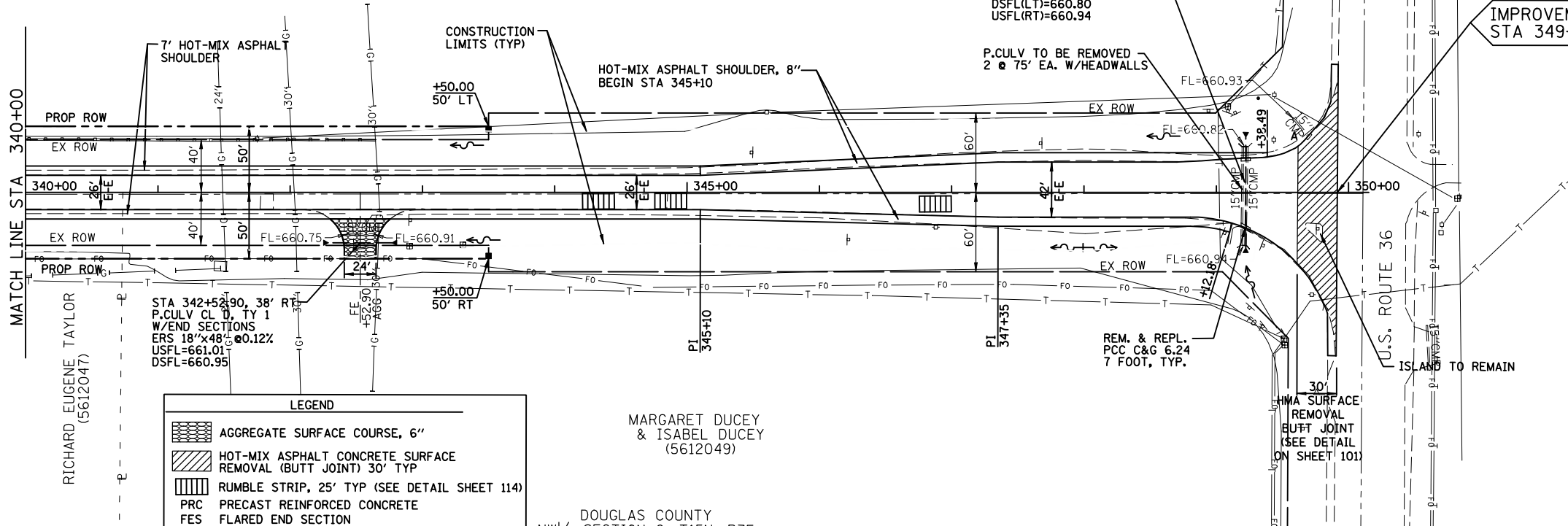
STA 349+21.34
P.CULV CL A, TY 1
W/END SECTION- EACH
ERS 24"x83' @0.17%
MATCH EXIST DITCH
DSFL(LT)=660.80
USFL(RT)=660.94

IMPROVEMENT ENDS
STA 349+91.50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6RS-1 & (6BR)BR	DOUGLAS	176	35
STA. 340+00		TO STA. 349+91.50		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 90711				

PLAN	DATE
SURVEYED	
PLOTTED	
CHECKED	
BY	
NO.	

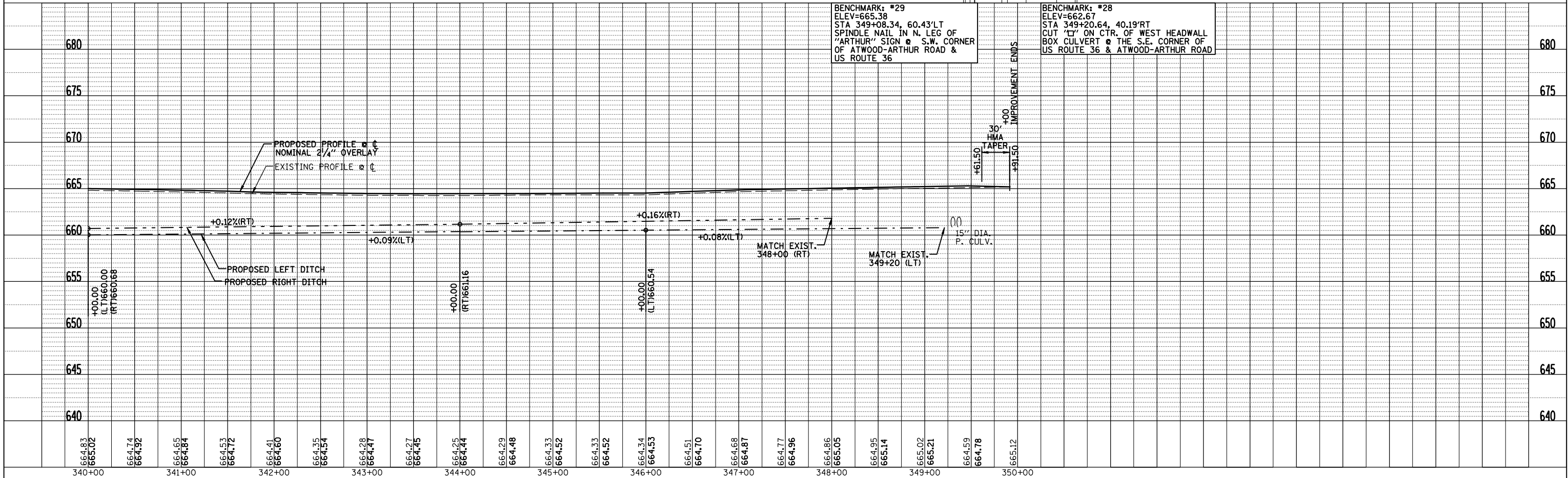
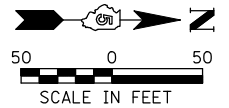
PROFILE	DATE
SURVEYED	
PLOTTED	
CHECKED	
BY	
NO.	



LEGEND

	AGGREGATE SURFACE COURSE, 6"
	HOT-MIX ASPHALT CONCRETE SURFACE REMOVAL (BUFT JOINT) 30' TYP
	RUMBLE STRIP, 25' TYP (SEE DETAIL SHEET 114)
	PRC PRECAST REINFORCED CONCRETE
	FES FLARED END SECTION

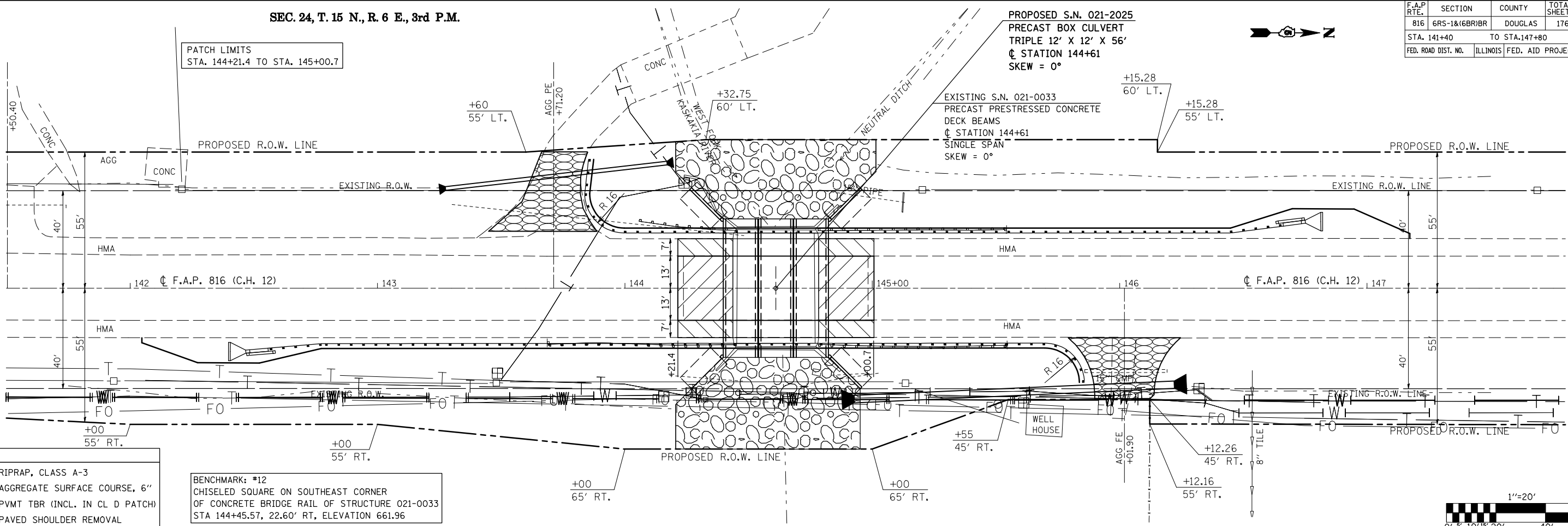
MARGARET DUCEY & ISABEL DUCEY
(5612049)
DOUGLAS COUNTY
NW 1/4 SECTION 6, T15N, R7E



SEC. 24, T. 15 N., R. 6 E., 3rd P.M.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6RS-1&6BR1BR	DOUGLAS	176	36
STA. 141+40		TO STA. 147+80		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

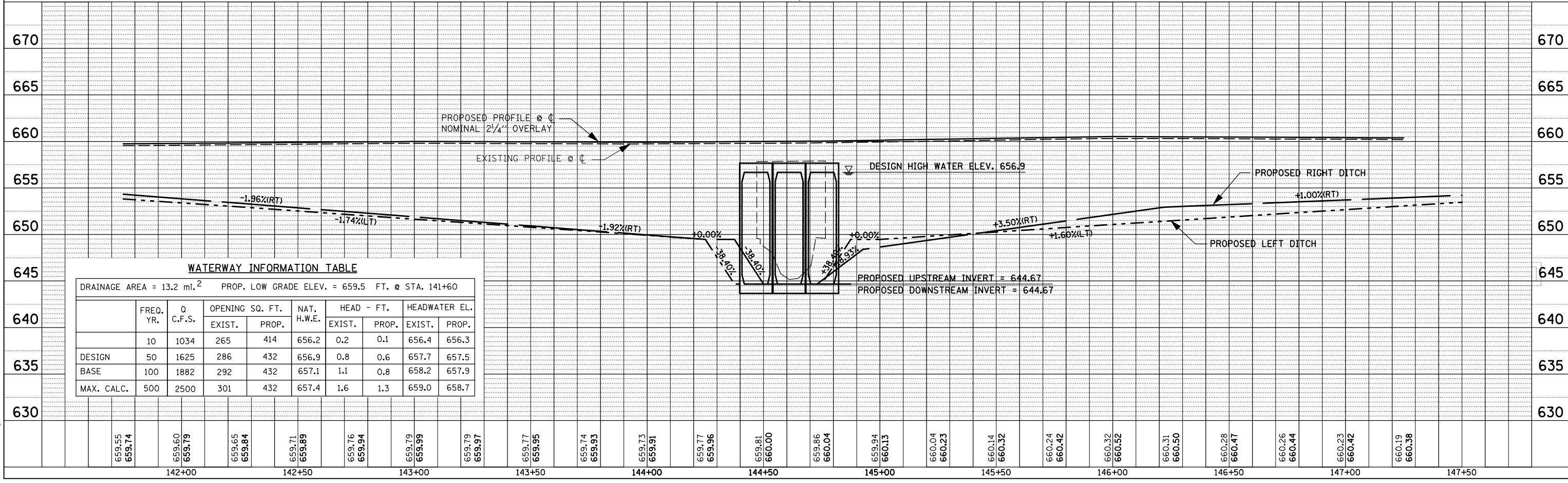
PLAN	SURVEYED	BY	DATE
	NOTED		
	PLOTTED		
	CHECKED		
	BY		
	NO. OF WAY CHECKED		
	CADD FILE NAME		



- LEGEND**
- RIPRAP, CLASS A-3
 - AGGREGATE SURFACE COURSE, 6"
 - PVT TBR (INCL. IN CL D PATCH)
 - PAVED SHOULDER REMOVAL

BENCHMARK: #12
CHISELED SQUARE ON SOUTHEAST CORNER OF CONCRETE BRIDGE RAIL OF STRUCTURE 021-0033 STA 144+45.57, 22.60' RT, ELEVATION 661.96

PROFILE	SURVEYED	BY	DATE
	NOTED		
	PLOTTED		
	CHECKED		
	BY		
	NO. OF WAY CHECKED		
	STRUCTURE NOTATIONS CHKD		



WATERWAY INFORMATION TABLE

DRAINAGE AREA = 13.2 mi.² PROP. LOW GRADE ELEV. = 659.5 FT. @ STA. 141+60

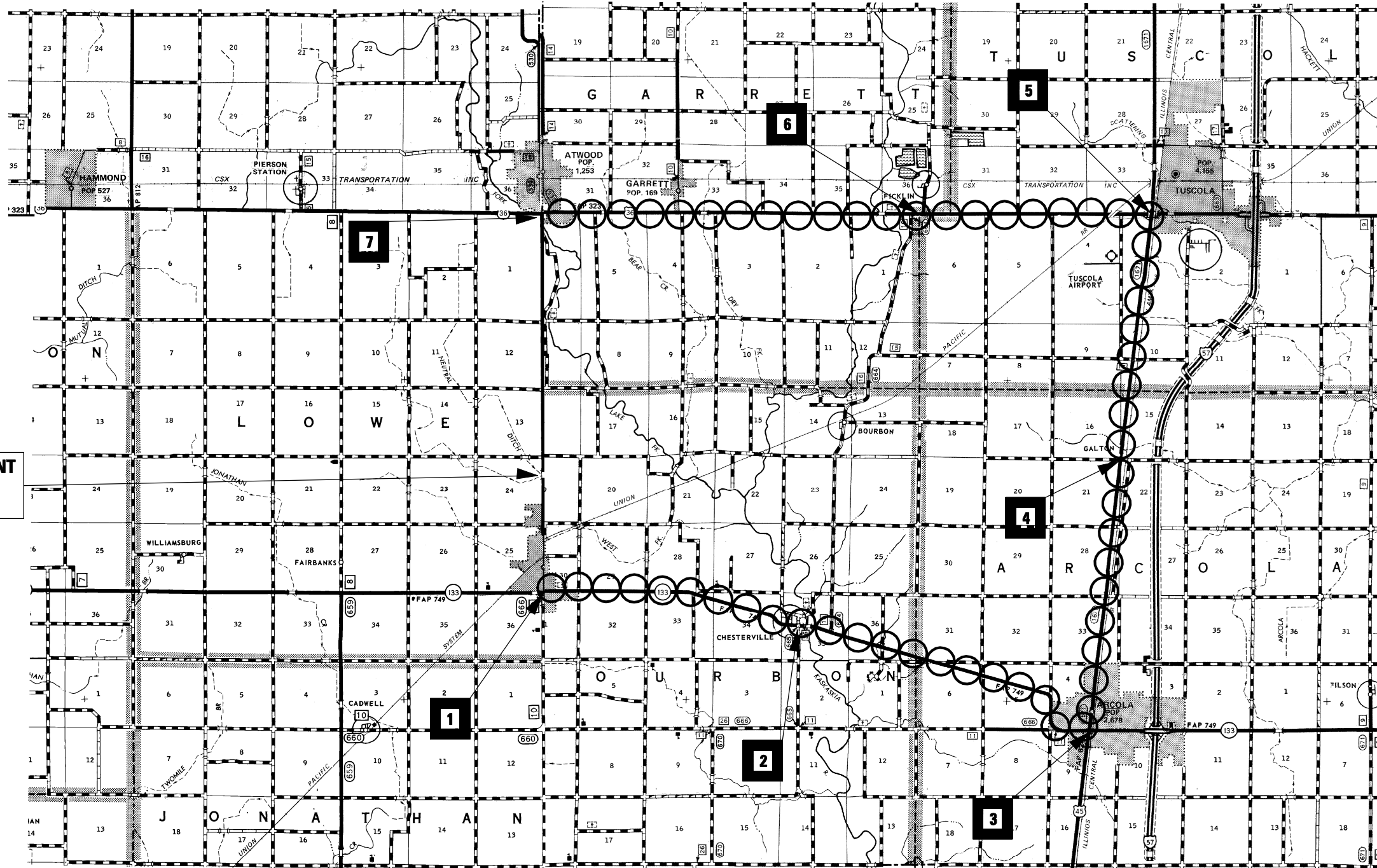
	FREQ. YR.	Q C.F.S.	OPENING SQ. FT.		NAT. H.W.E.	HEAD - FT.		HEADWATER EL.	
			EXIST.	PROP.		EXIST.	PROP.	EXIST.	PROP.
DESIGN	10	1034	265	414	656.2	0.2	0.1	656.4	656.3
BASE	50	1625	286	432	656.9	0.8	0.6	657.7	657.5
MAX. CALC.	100	1882	292	432	657.1	1.1	0.8	658.2	657.9
	500	2500	301	432	657.4	1.6	1.3	659.0	658.7

PLOT DATE = 8/22/2008
FILE NAME = c:\pro\mca\c80695\2007.08.13 submittal\plan sheets.dgn
PLOT SCALE = 4:3229 / IN.
USER NAME = kejarb

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	GRS-1&6BRI&R	DOUGLAS	176	37
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

ROAD CLOSURE DETOUR DETAIL

Marked Detour Route 



**STRUCTURE IMPROVEMENT
S.N. 021-2025
STA. 144 + 61**

**DETAIL NOTE:
ALL DETOUR SIGN LOCATIONS ARE SUBJECT TO FIELD ADJUSTMENTS IN CASE OF CONFLICTS. ANY ADJUSTMENTS WILL BE COORDINATED BY THE ENGINEER, THE CONTRACTOR, AND THE BUREAU OF OPERATIONS (CLARK PIPER) PRIOR TO ROAD CLOSURE.**

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

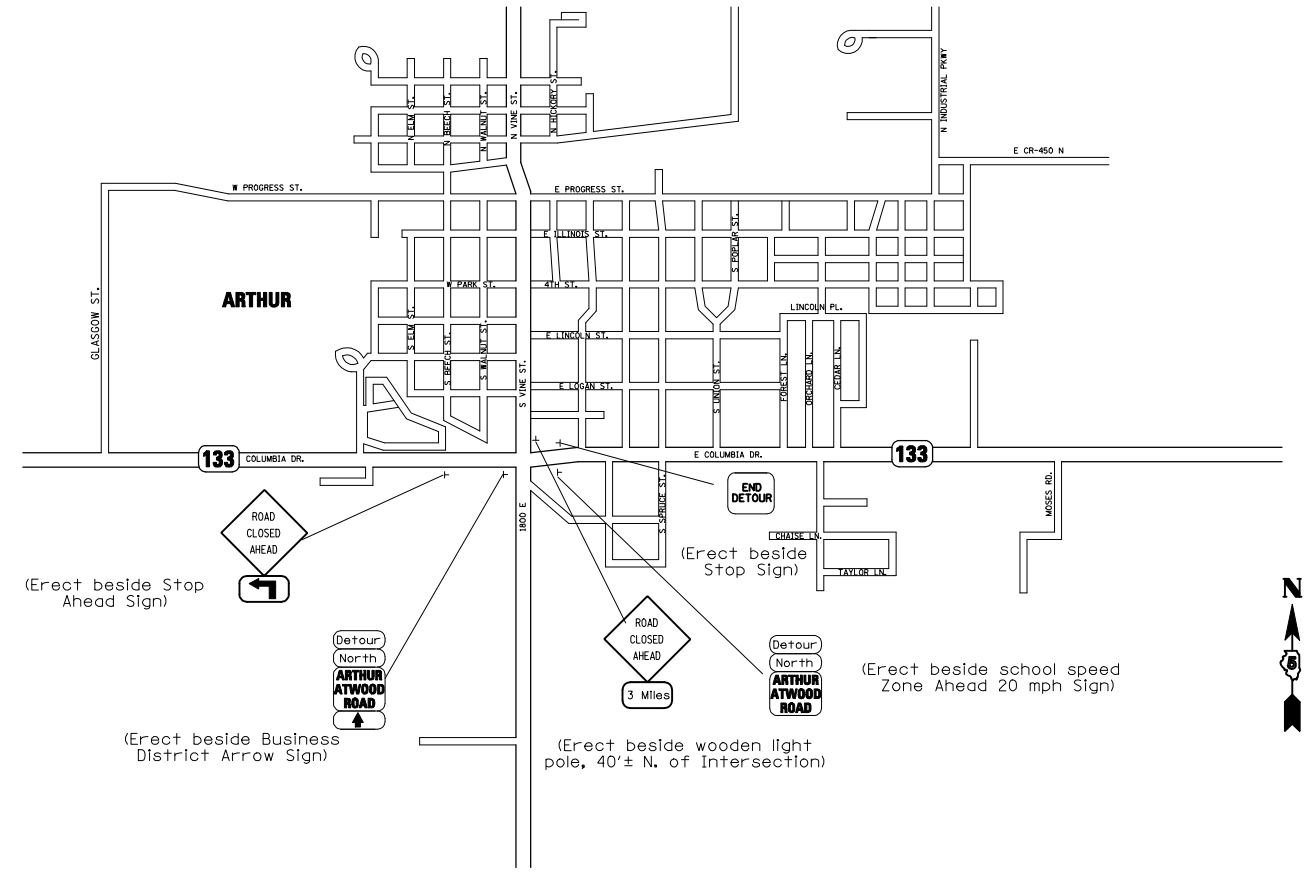
**DETOUR
SIGNING
SHEET**

SCALE: VERT.
HORIZ.
DATE

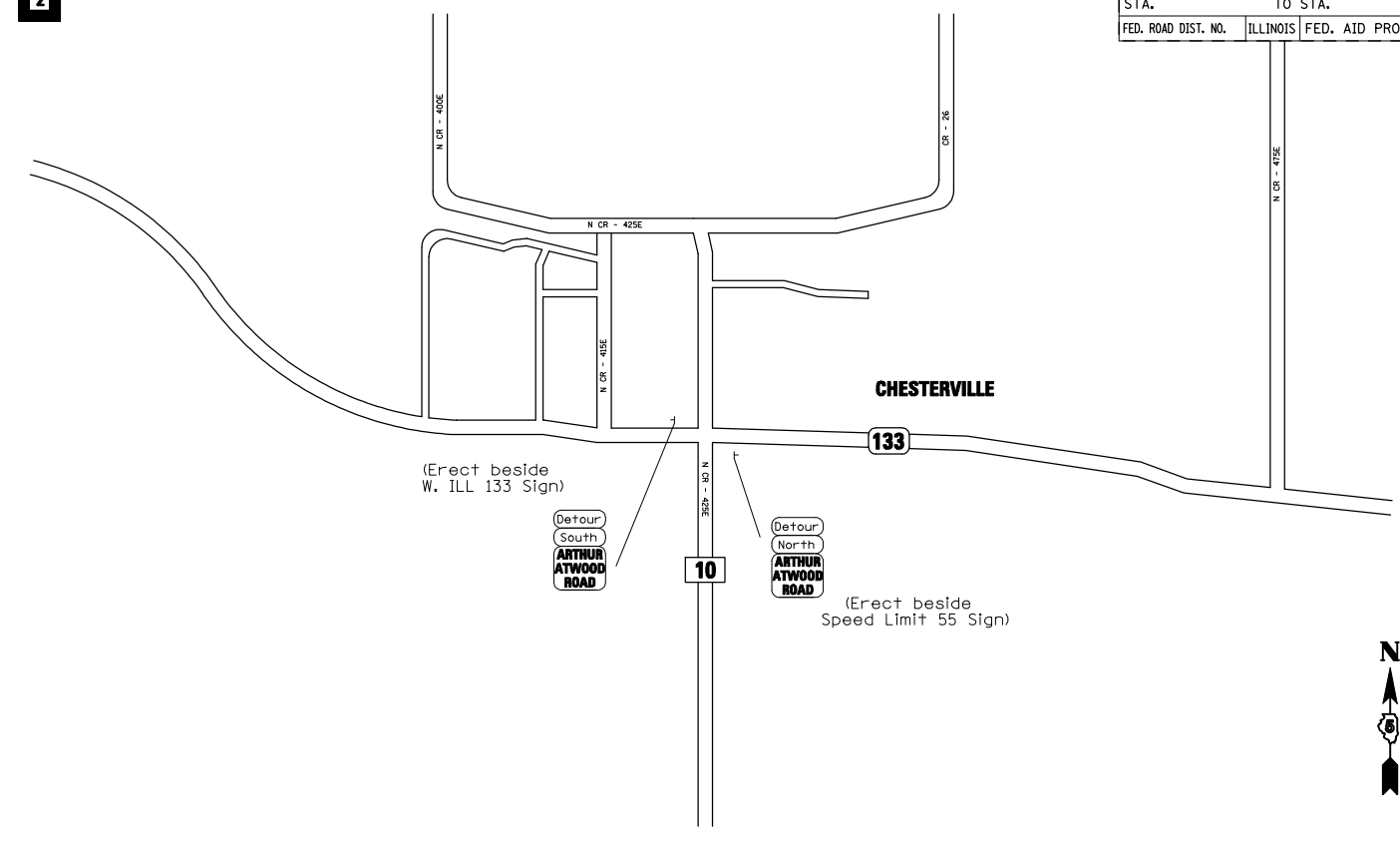
DRAWN BY
CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6RS-1&6BRIBR	DOUGLAS	176	38
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

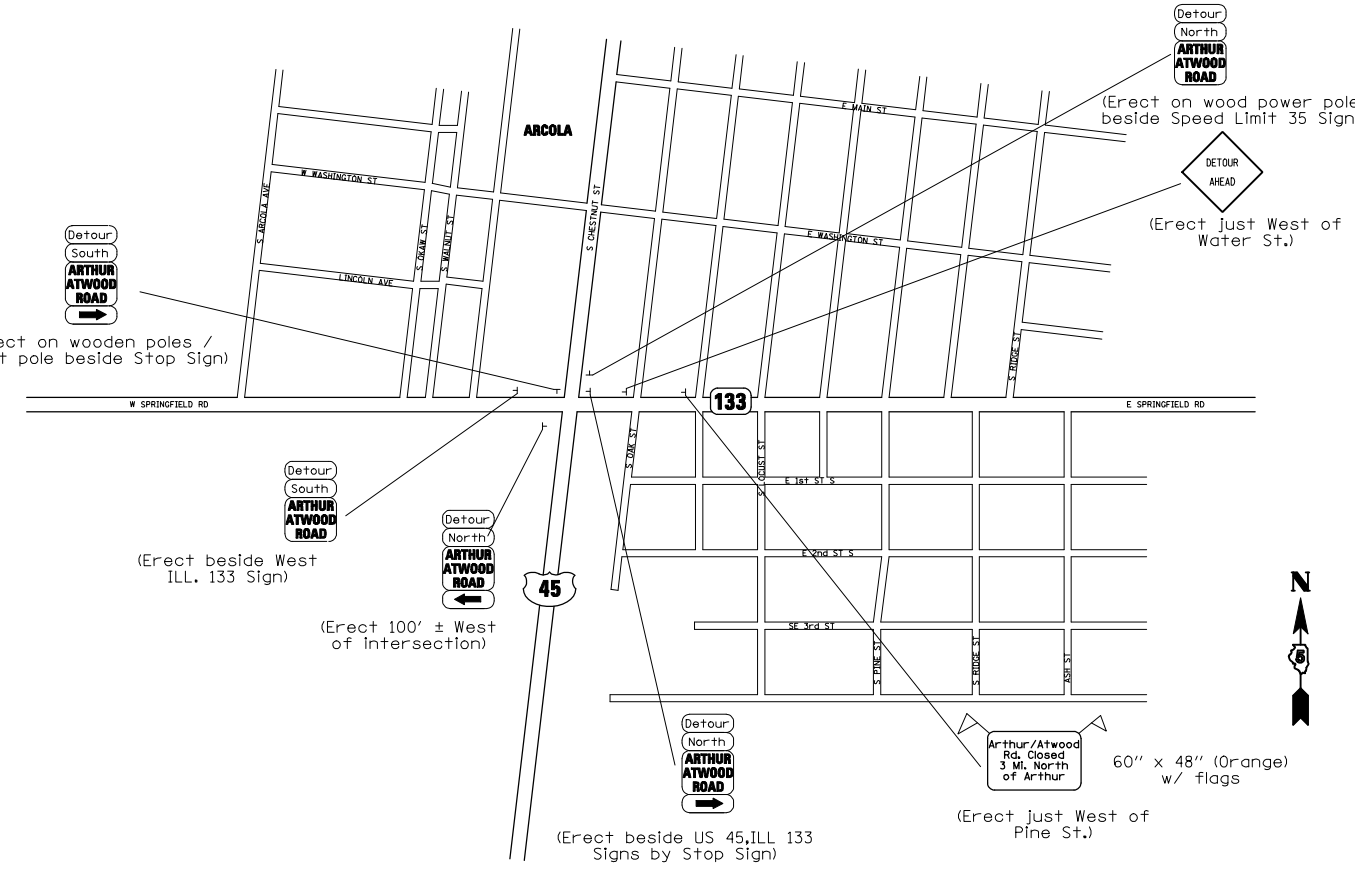
1



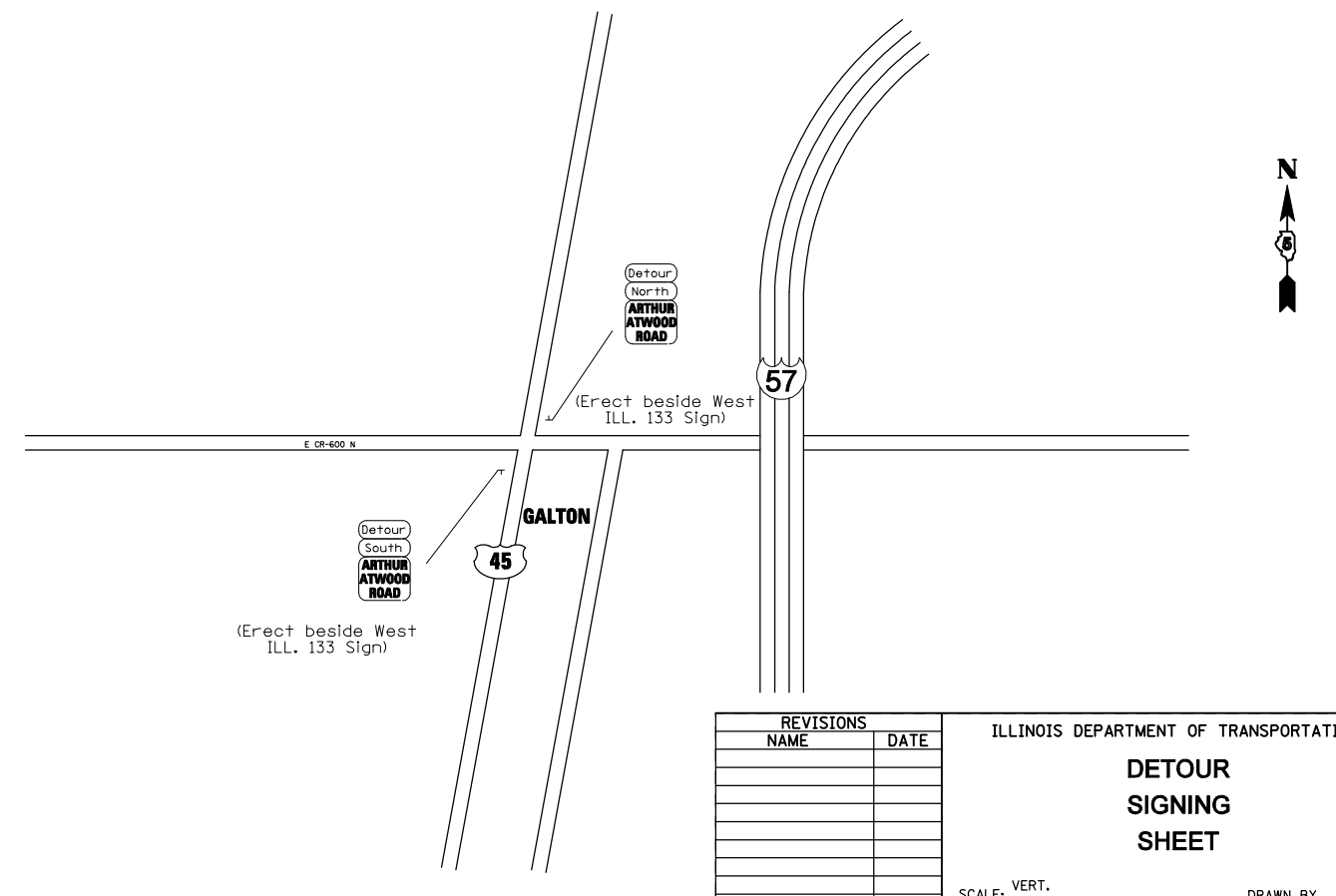
2



3



4

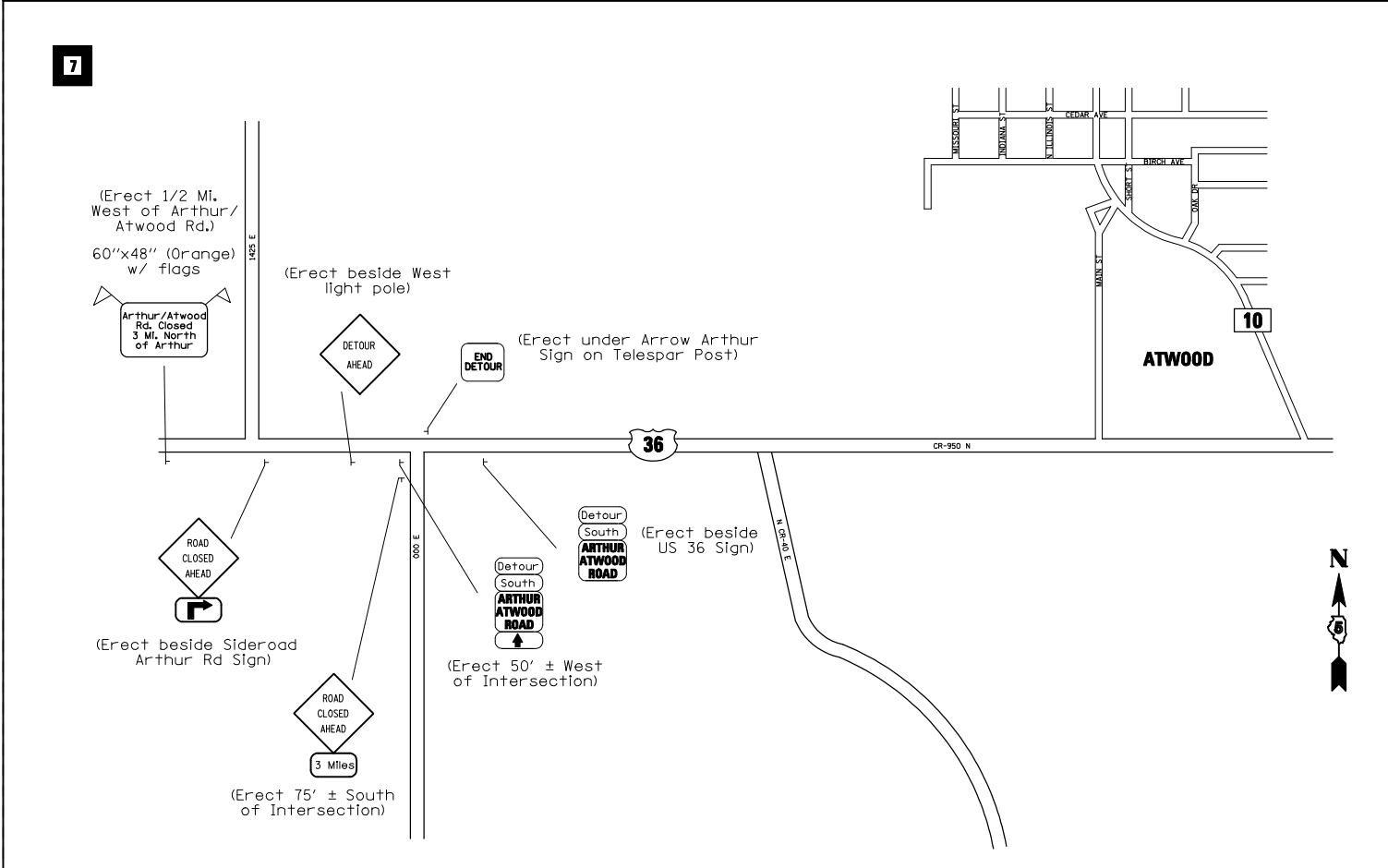
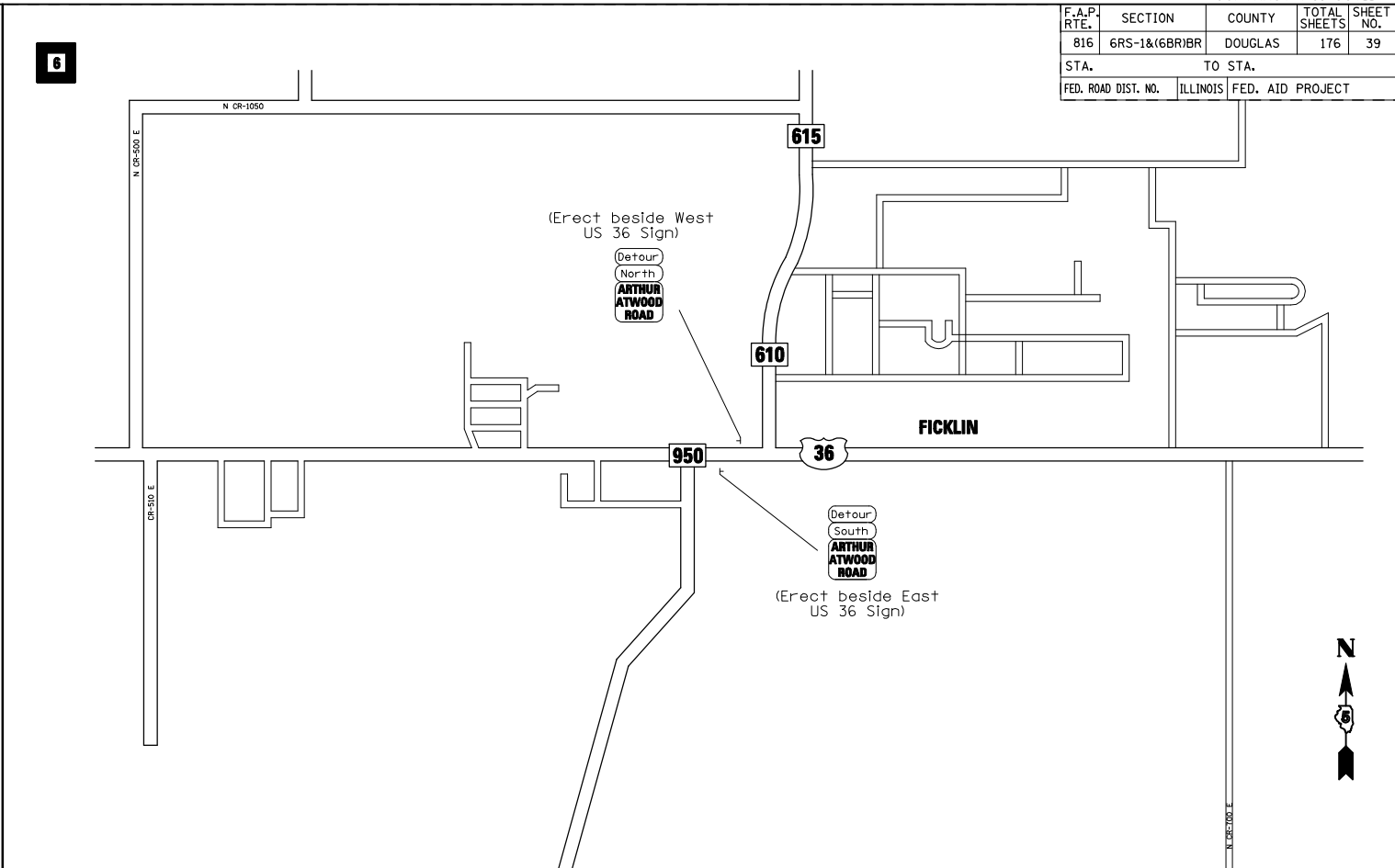
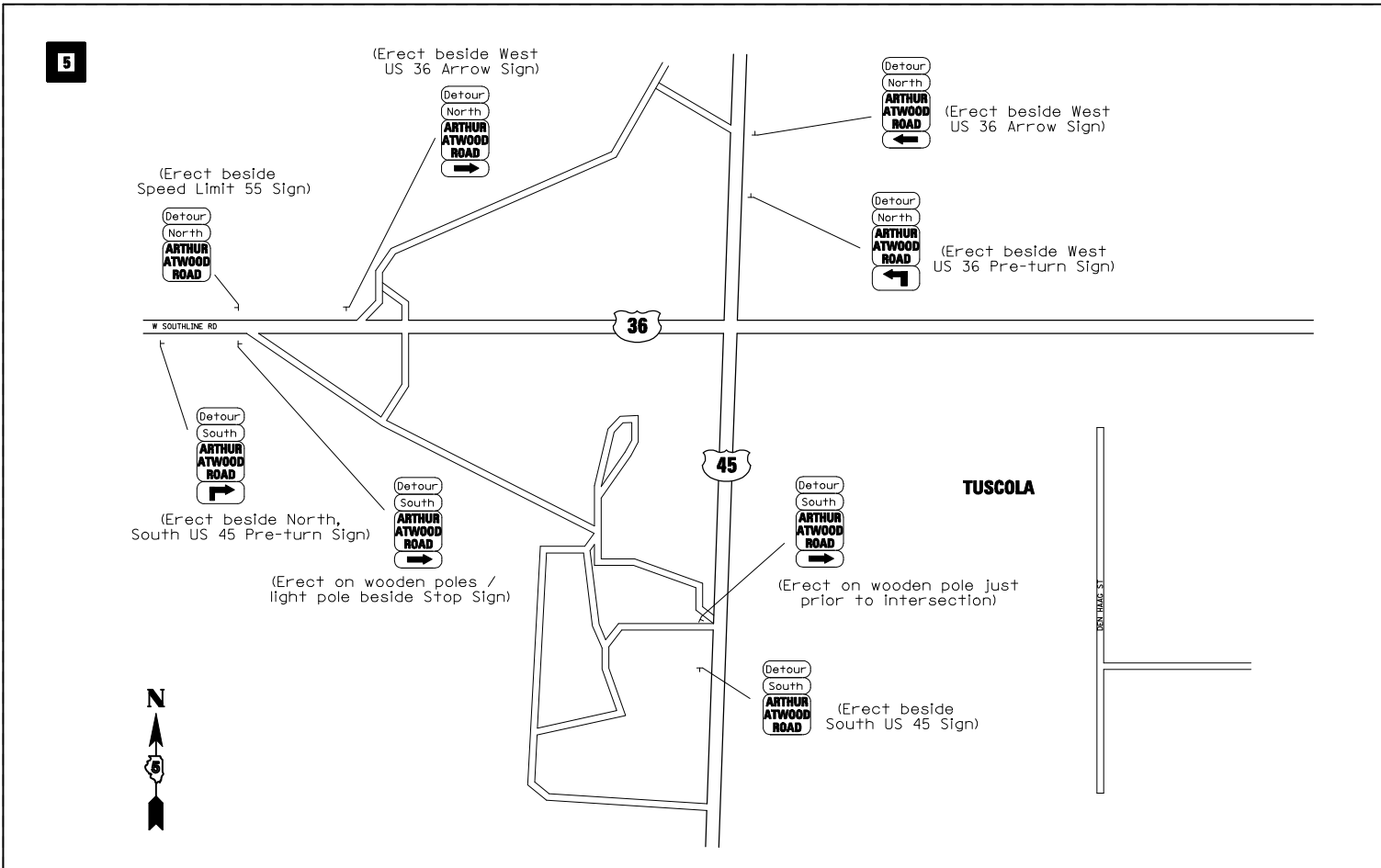


PLOT DATE = 7/25/2008
 FILE NAME = c:\pro\peta\4506695\2007_08_13\submit\detour.dgn
 PLOT SCALE = 1/8"=1'-0"
 USER NAME = kejarb

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETOUR SIGNING SHEET
 SCALE: VERT. / HORIZ.
 DATE: _____
 DRAWN BY: _____
 CHECKED BY: _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6RS-1&16BR1BR	DOUGLAS	176	39
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TYPICAL DETOUR ROUTE MARKER SHIELD



24" X 24" WHITE SIGN (MIN.) WITH 3" X 3" BLACK LETTERING (MIN.)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETOUR SIGNING SHEET
 SCALE: VERT. / HORIZ.
 DATE: / /
 DRAWN BY: /
 CHECKED BY: /

PLOT DATE = 8/22/2008
 FILE NAME = c:\projects\4506695\2007_08_13\submit\detour.dgn
 PLOT SCALE = 1/8"=1'-0"
 USER NAME = kejarb

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	*	DOUGLAS	176	40
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 90711
 6RS-1 & (6BR)BR

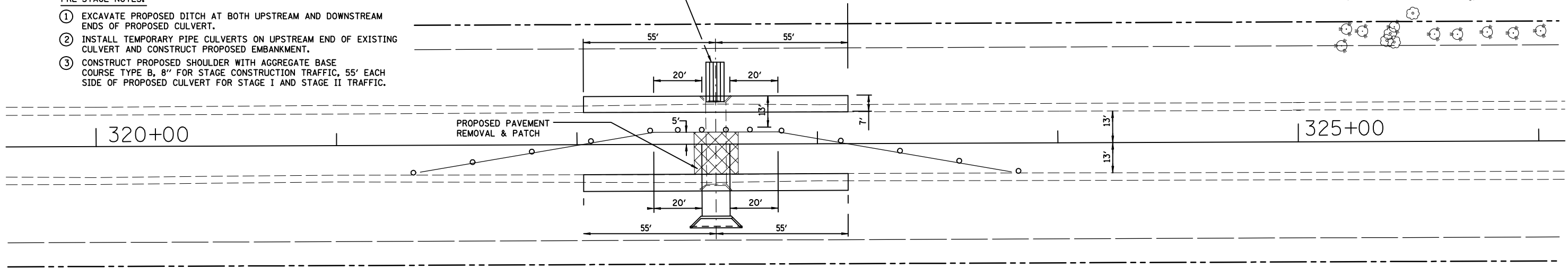
NOTES:

1. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ENTRANCES WITHIN THE WORK ZONE.
2. TRAFFIC CONTROL AND PROTECTION STANDARD 701201 SHALL BE UTILIZED FOR STAGED CULVERT WORK.

PRE-STAGE NOTES:

- 1 EXCAVATE PROPOSED DITCH AT BOTH UPSTREAM AND DOWNSTREAM ENDS OF PROPOSED CULVERT.
- 2 INSTALL TEMPORARY PIPE CULVERTS ON UPSTREAM END OF EXISTING CULVERT AND CONSTRUCT PROPOSED EMBANKMENT.
- 3 CONSTRUCT PROPOSED SHOULDER WITH AGGREGATE BASE COURSE TYPE B, 8" FOR STAGE CONSTRUCTION TRAFFIC, 55' EACH SIDE OF PROPOSED CULVERT FOR STAGE I AND STAGE II TRAFFIC.

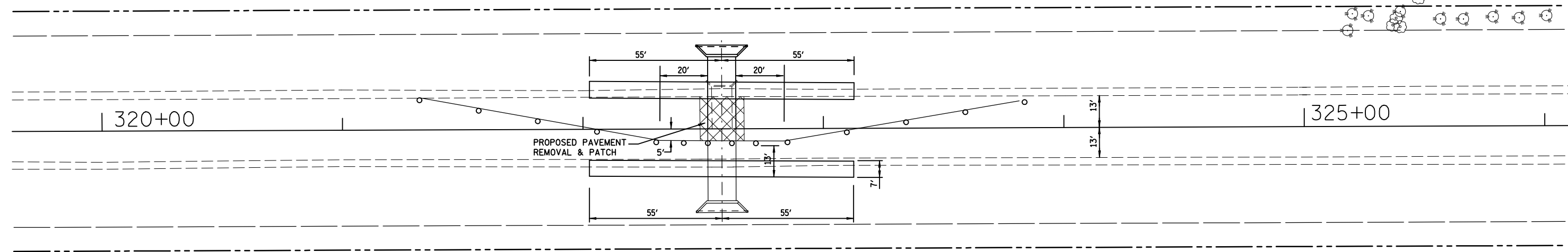
TEMPORARY PIPE CULVERTS 18" FILL EXISTING CULVERT END WITH AS MANY TEMPORARY CULVERTS AS WILL FIT. AN EIGHT FOOT WIDE CULVERT SHOULD ACCOMMODATE FOUR OR FIVE CULVERTS DEPENDING UPON MATERIAL USED.



STAGE I NOTES:

- 1 INSTALL TRAFFIC CONTROL AS NOTED AND IN ACCORDANCE WITH STANDARD 701201.
- 2 REMOVE PAVEMENT AND EXISTING CULVERT.
- 3 INSTALL PROPOSED CULVERT, TEMPORARY CONNECTION TO THE EXISTING CULVERT, BACKFILL AND PATCH.
- 4 OPEN TO TWO LANE & TWO-WAY TRAFFIC AT THE END OF EACH WORK DAY.

TYPICAL CULVERT STAGE I PLAN



TYPICAL CULVERT STAGE II PLAN

STAGE II NOTES:

- 1 INSTALL THE TRAFFIC CONTROL NOTED AND IN ACCORDANCE WITH STANDARD 701201.
- 2 SAW CUT AND REMOVE EXISTING PAVEMENT AS NECESSARY.
- 3 REMOVE EXISTING CULVERT AND INSTALL PROPOSED CULVERTS.
- 4 BACKFILL AND INSTALL PAVEMENT PATCH.
- 5 OPEN THE ROADWAY TO TWO LANE TRAFFIC AT THE END OF EACH WORK DAY.

REVISIONS	
NAME	DATE

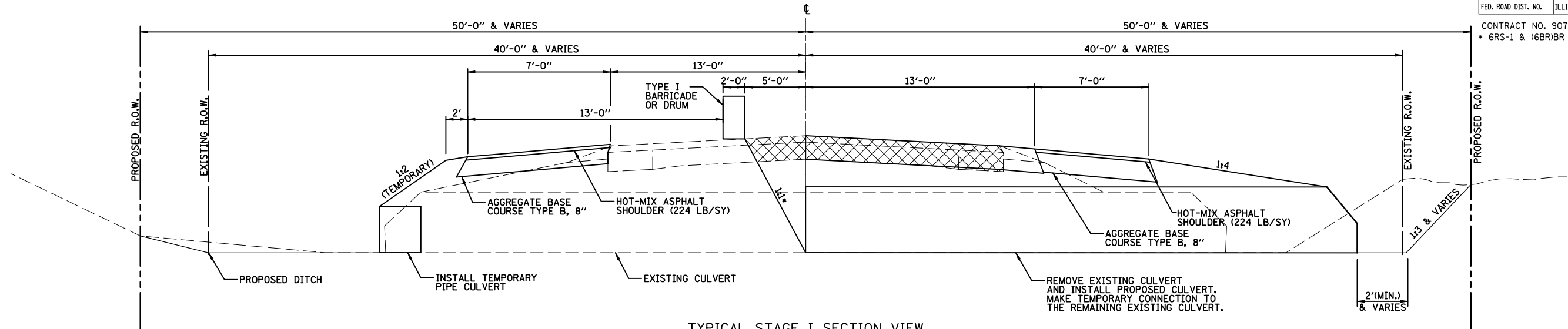
ILLINOIS DEPARTMENT OF TRANSPORTATION
 TYPICAL CULVERT STAGE
 CONSTRUCTION PLAN
 FAP ROUTE 816
 ATWOOD-ARTHUR RD
 SECTION 6RS-1 & (6BR)BR
 DOUGLAS COUNTY

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

DRAWN BY: JJO
 CHECKED BY: PJM

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	*	DOUGLAS	176	41
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 90711
 * 6RS-1 & (6BR)BR



TYPICAL STAGE I SECTION VIEW

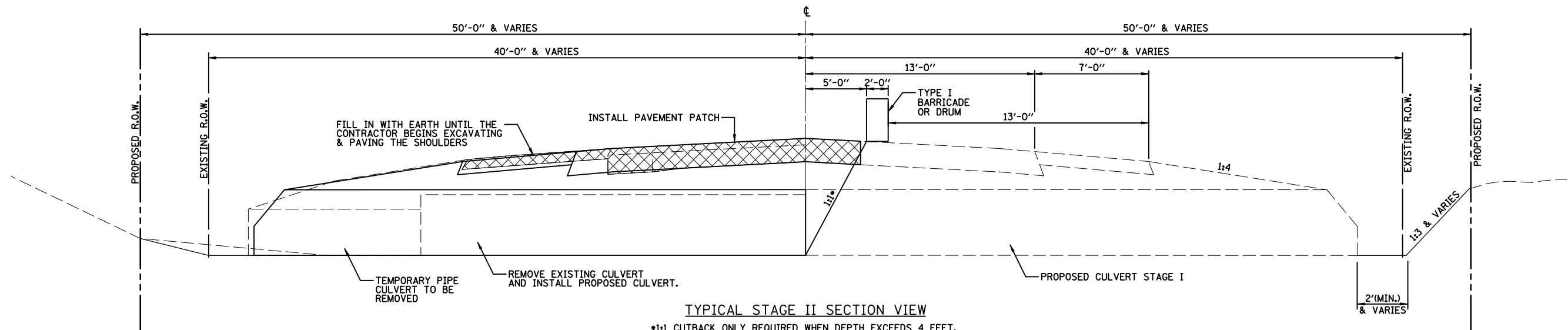
*1:1 CUTBACK ONLY REQUIRED WHEN DEPTH EXCEEDS 4 FEET.

PRE-STAGE NOTES:

- ① EXCAVATE PROPOSED DITCHES AT BOTH UPSTREAM AND DOWNSTREAM ENDS OF THE CULVERT.
- ② INSTALL TEMPORARY PIPE CULVERT AND CONSTRUCT EMBANKMENT AND PROPOSED SHOULDER ON UPSTREAM END OF CULVERT.
- ③ CONSTRUCT PROPOSED SHOULDER WITH AGGREGATE BASE COURSE TYPE B, 8" FOR STAGE CONSTRUCTION TRAFFIC, 55' EACH SIDE OF PROPOSED CULVERT FOR STAGE I AND STAGE II TRAFFIC.

STAGE I NOTES:

- ① INSTALL TRAFFIC CONTROL AND PROTECTION 701201, PLACE BARRICADE/DRUMS AROUND CULVERT CONSTRUCTION AREA.
- ② REMOVE EXISTING PAVEMENT AND EXISTING DOWNSTREAM END OF THE CULVERT TO THE APPROXIMATE CENTERLINE OF THE ROAD.
- ③ INSTALL THE DOWNSTREAM PORTION OF THE PROPOSED CULVERT AND MAKE A TEMPORARY CONNECTION TO THE EXISTING UPSTREAM PORTION OF THE CULVERT.
- ④ BACKFILL THE TRENCH USING POROUS GRANULAR BACKFILL, PLACE CLASS D PAVEMENT PATCH AND HMA SHOULDER.
- ⑤ OPEN TO TWO LANE & TWO-WAY TRAFFIC AT THE END OF EACH WORK DAY.



TYPICAL STAGE II SECTION VIEW

*1:1 CUTBACK ONLY REQUIRED WHEN DEPTH EXCEEDS 4 FEET.

STAGE II NOTES:

- ① INSTALL TRAFFIC CONTROL PROTECTION 701201.
- ② SAW CUT AND REMOVE PAVEMENT AND PART OF CLASS D PATCH AS NECESSARY FOR CULVERT REMOVAL AND REPLACEMENT.
- ③ REMOVE TEMPORARY CONNECTION, EXISTING CULVERT AND TEMPORARY PIPE CULVERT. INSTALL THE PROPOSED CULVERT AND BACKFILL.
- ④ INSTALL THE PAVEMENT PATCH AND PROPOSED HMA SHOULDER.
- ⑤ OPEN THE ROADWAY TO TWO LANE TRAFFIC AT THE END OF EACH WORK DAY.

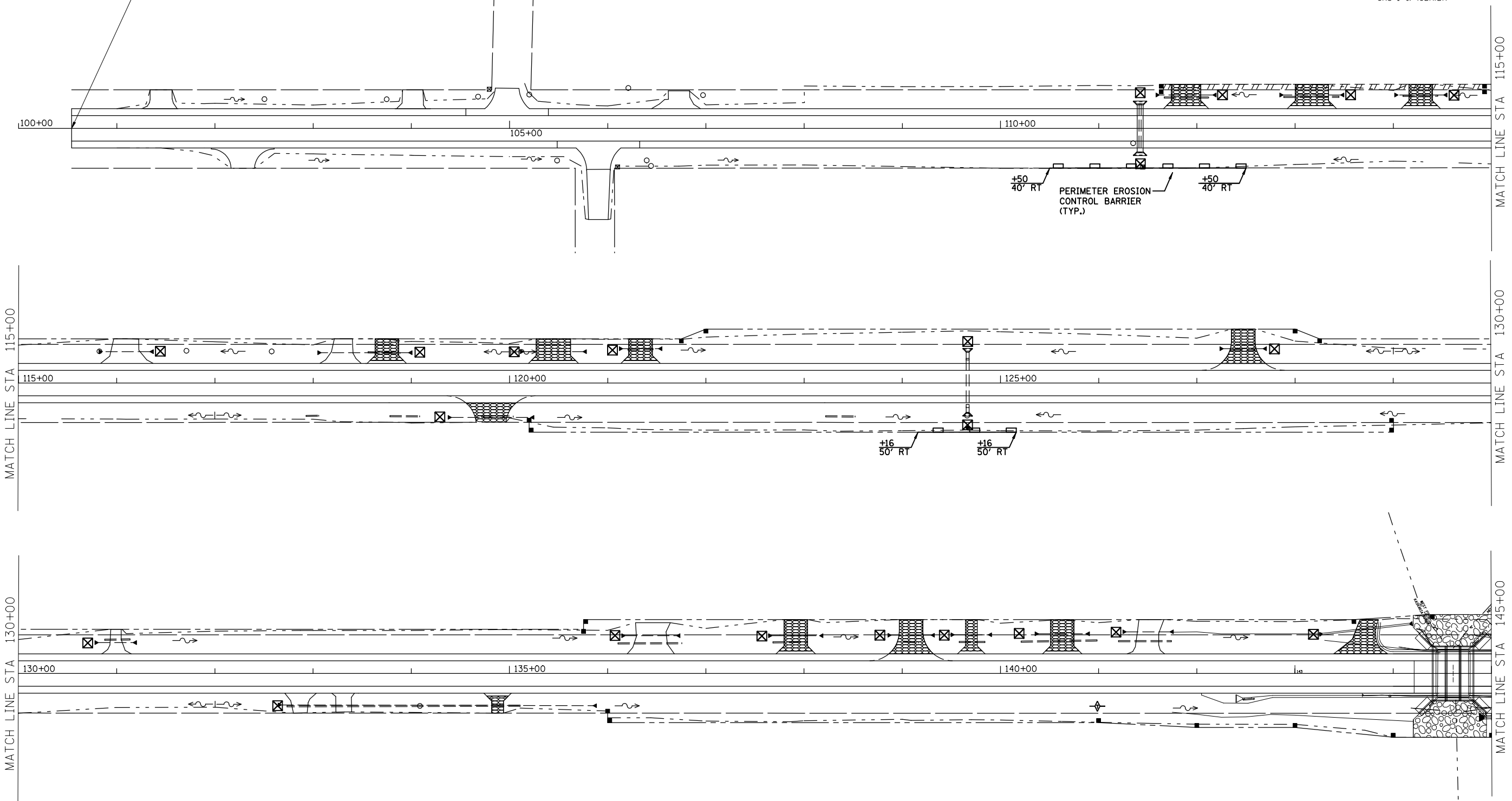
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TYPICAL CULVERT STAGE
 CONSTRUCTION PLAN
 FAP ROUTE 816
 ATWOOD-ARTHUR RD
 SECTION 6RS-1 & (6BR)BR
 DOUGLAS COUNTY

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

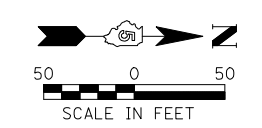
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	•	DOUGLAS	176	42
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 90711				
• 6RS-1 & (6BR)BR				

IMPROVEMENT BEGINS
STA 100+54



LEGEND

	INLET & PIPE PROTECTION
	TEMPORARY DITCH CHECK
	PERIMETER EROSION CONTROL BARRIER

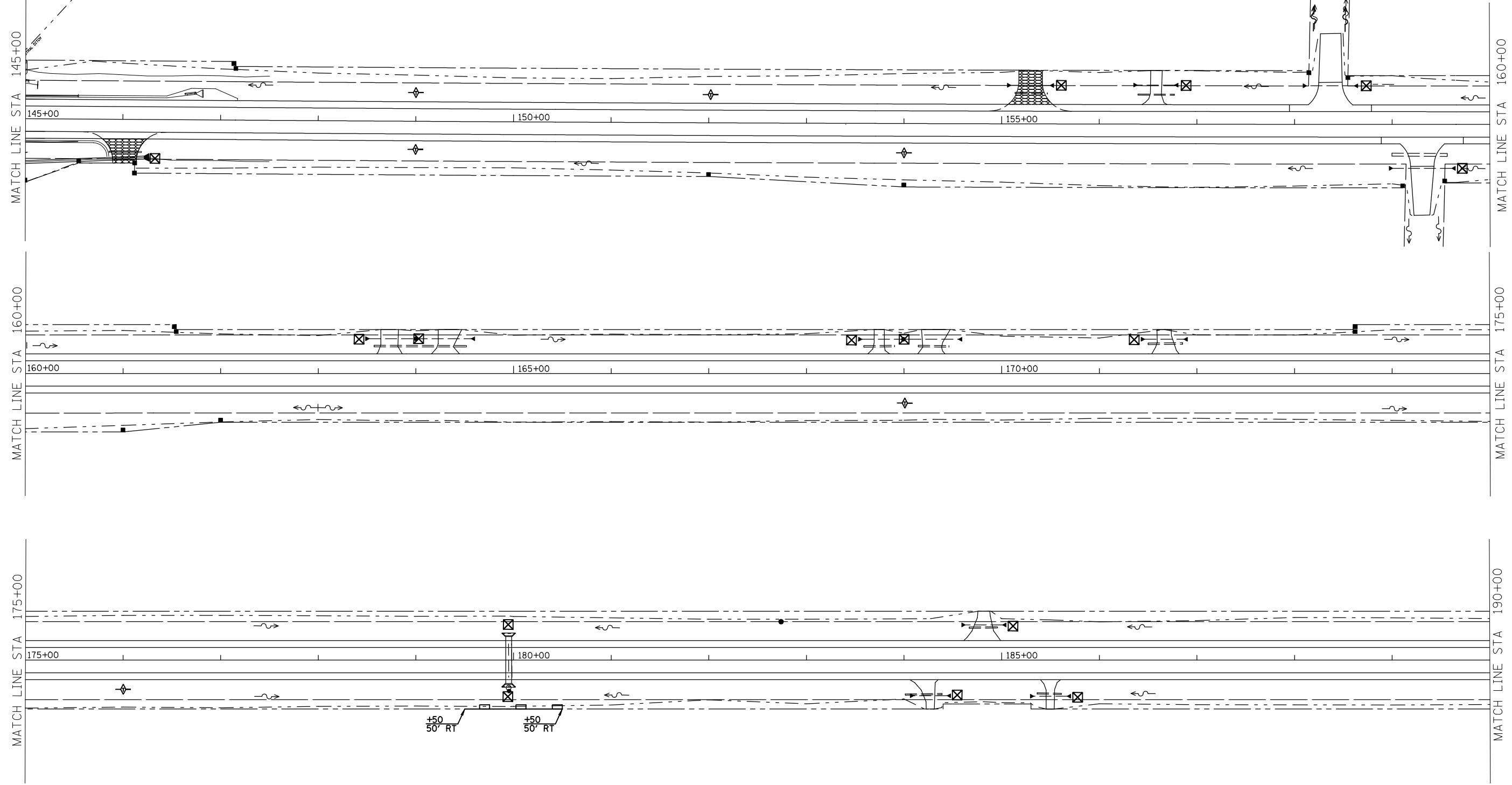


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TEMPORARY EROSION CONTROL PLAN
 FAP ROUTE 816
 ATWOOD-ARTHUR RD
 SECTION 6RS-1 & (6BR)BR
 DOUGLAS COUNTY

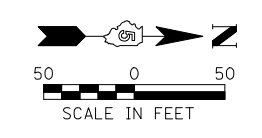
SCALE: VERT. DRAWN BY: JJO
 HORIZ. CHECKED BY: PJM
 DATE: 11/24/03

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	•	DOUGLAS	176	43
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 90711				
• 6RS-1 & (6BR)BR				



LEGEND

	INLET & PIPE PROTECTION
	TEMPORARY DITCH CHECK
	PERIMETER EROSION CONTROL BARRIER

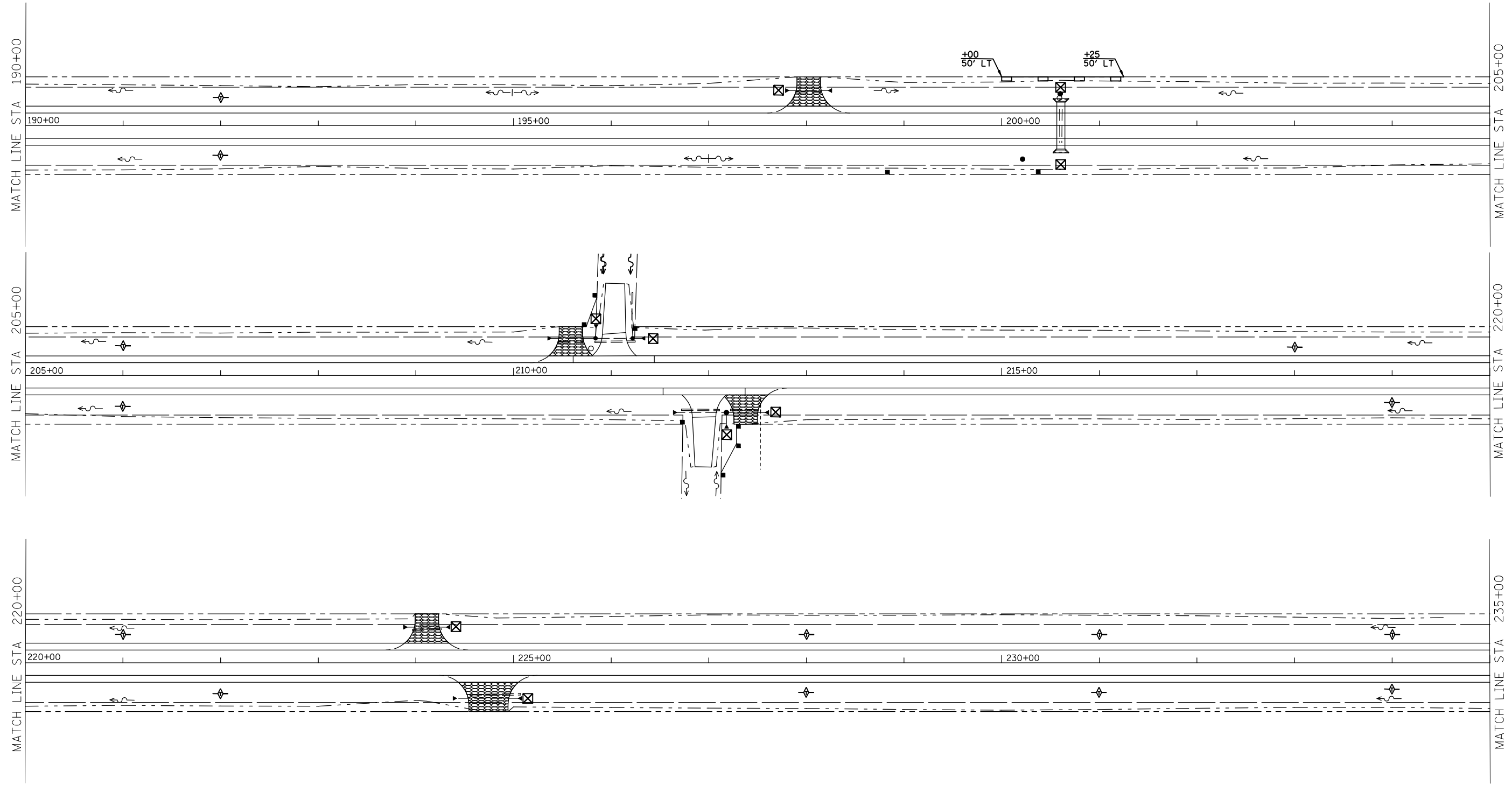


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TEMPORARY EROSION CONTROL PLAN
 FAP ROUTE 816
 ATWOOD-ARTHUR RD
 SECTION 6RS-1 & (6BR)BR
 DOUGLAS COUNTY

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	44
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 90711				
• 6RS-1 & (6BR)BR				



LEGEND

	INLET & PIPE PROTECTION
	TEMPORARY DITCH CHECK
	PERIMETER EROSION CONTROL BARRIER



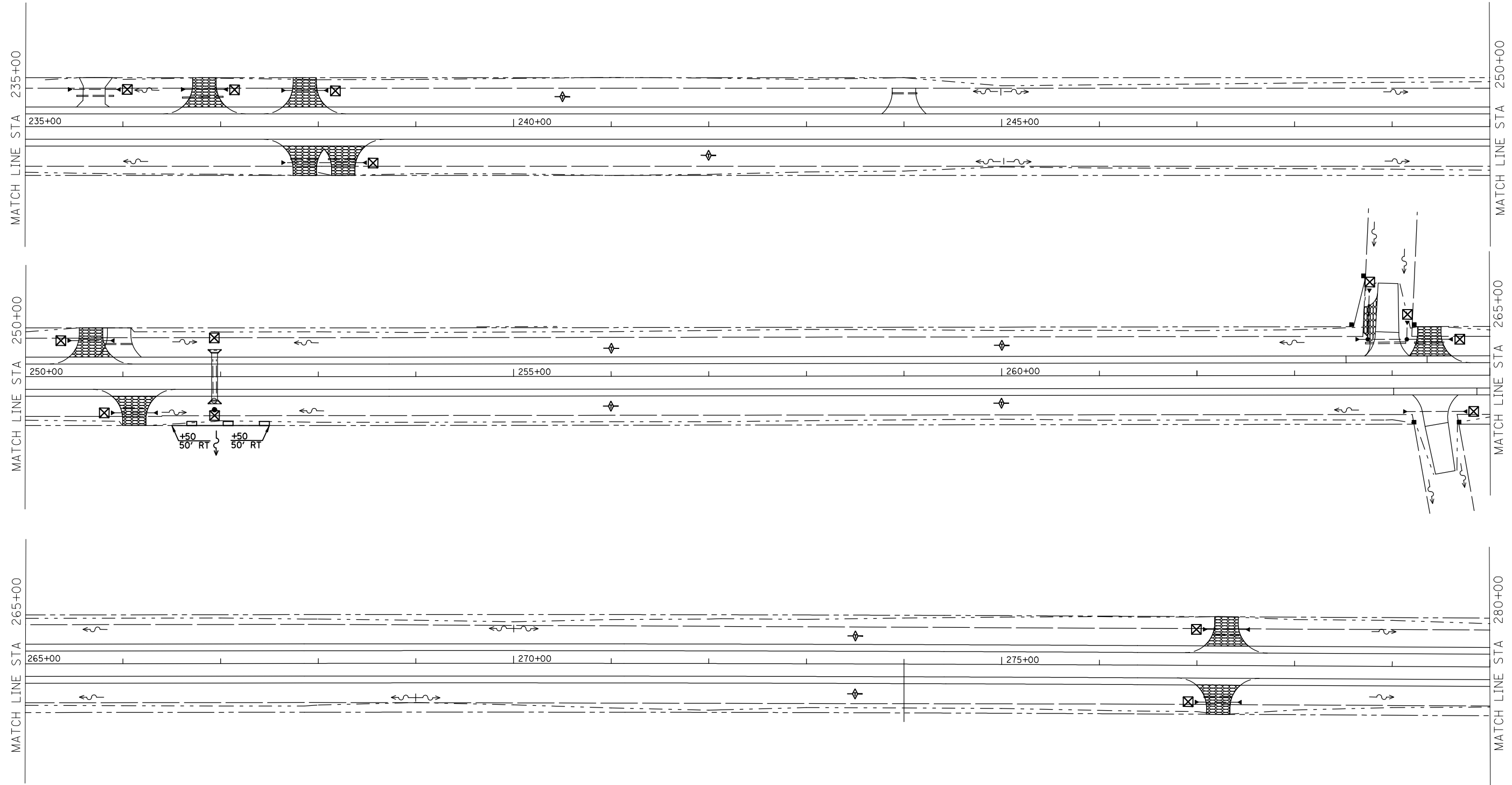
REVISIONS	
NAME	DATE




ILLINOIS DEPARTMENT OF TRANSPORTATION
TEMPORARY EROSION CONTROL PLAN
 FAP ROUTE 816
 ATWOOD-ARTHUR RD
 SECTION 6RS-1 & (6BR)BR
 DOUGLAS COUNTY

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

DRAWN BY: JJO
 CHECKED BY: PJM

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	•	DOUGLAS	176	45
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 90711				
• 6RS-1 & (6BR)BR				



- LEGEND**
-  INLET & PIPE PROTECTION
 -  TEMPORARY DITCH CHECK
 -  PERIMETER EROSION CONTROL BARRIER

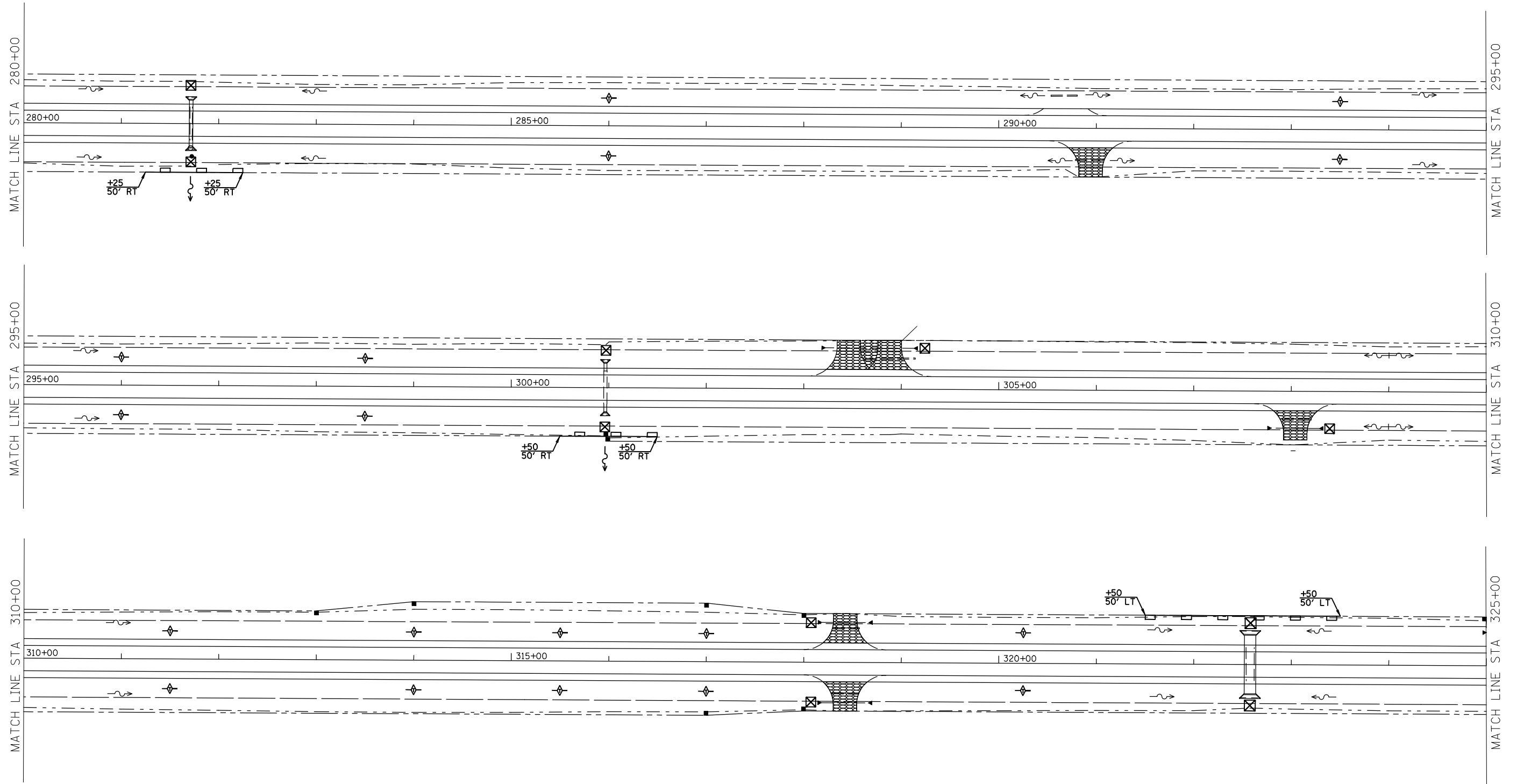
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TEMPORARY EROSION CONTROL PLAN
 FAP ROUTE 816
 ATWOOD-ARTHUR RD
 SECTION 6RS-1 & (6BR)BR
 DOUGLAS COUNTY

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

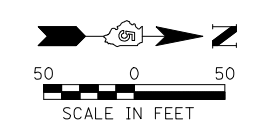
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	•	DOUGLAS	176	46
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 90711
 • 6RS-1 & (6BR)BR



LEGEND

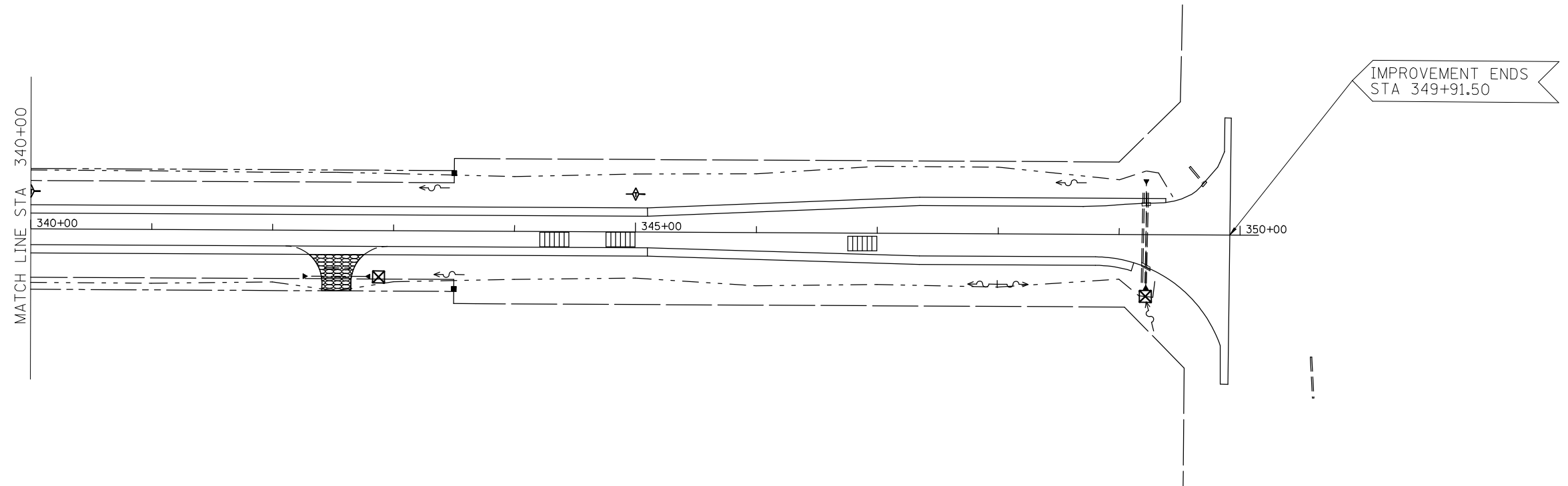
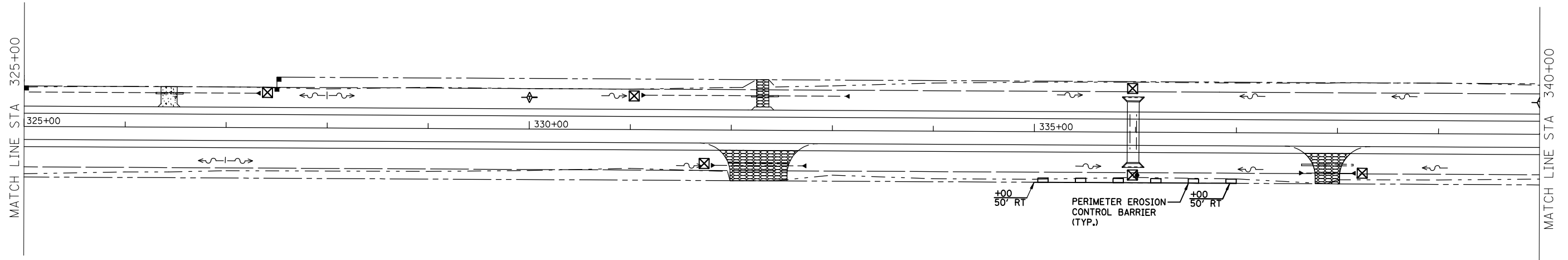
	INLET & PIPE PROTECTION
	TEMPORARY DITCH CHECK
	PERIMETER EROSION CONTROL BARRIER



REVISIONS	
NAME	DATE

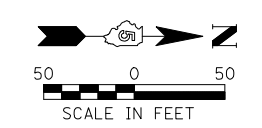
ILLINOIS DEPARTMENT OF TRANSPORTATION
 TEMPORARY EROSION CONTROL PLAN
 FAP ROUTE 816
 ATWOOD-ARTHUR RD
 SECTION 6RS-1 & (6BR)BR
 DOUGLAS COUNTY
 SCALE: VERT. DRAWN BY: JJO
 HORIZ. CHECKED BY: PJM
 DATE: 11/24/03

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	•	DOUGLAS	176	46A
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 90711				
• 6RS-1 & (6BR)BR				



LEGEND

	INLET & PIPE PROTECTION
	TEMPORARY DITCH CHECK
	PERIMETER EROSION CONTROL BARRIER



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TEMPORARY EROSION CONTROL PLAN
 FAP ROUTE 816
 ATWOOD-ARTHUR RD
 SECTION 6RS-1 & (6BR)BR
 DOUGLAS COUNTY

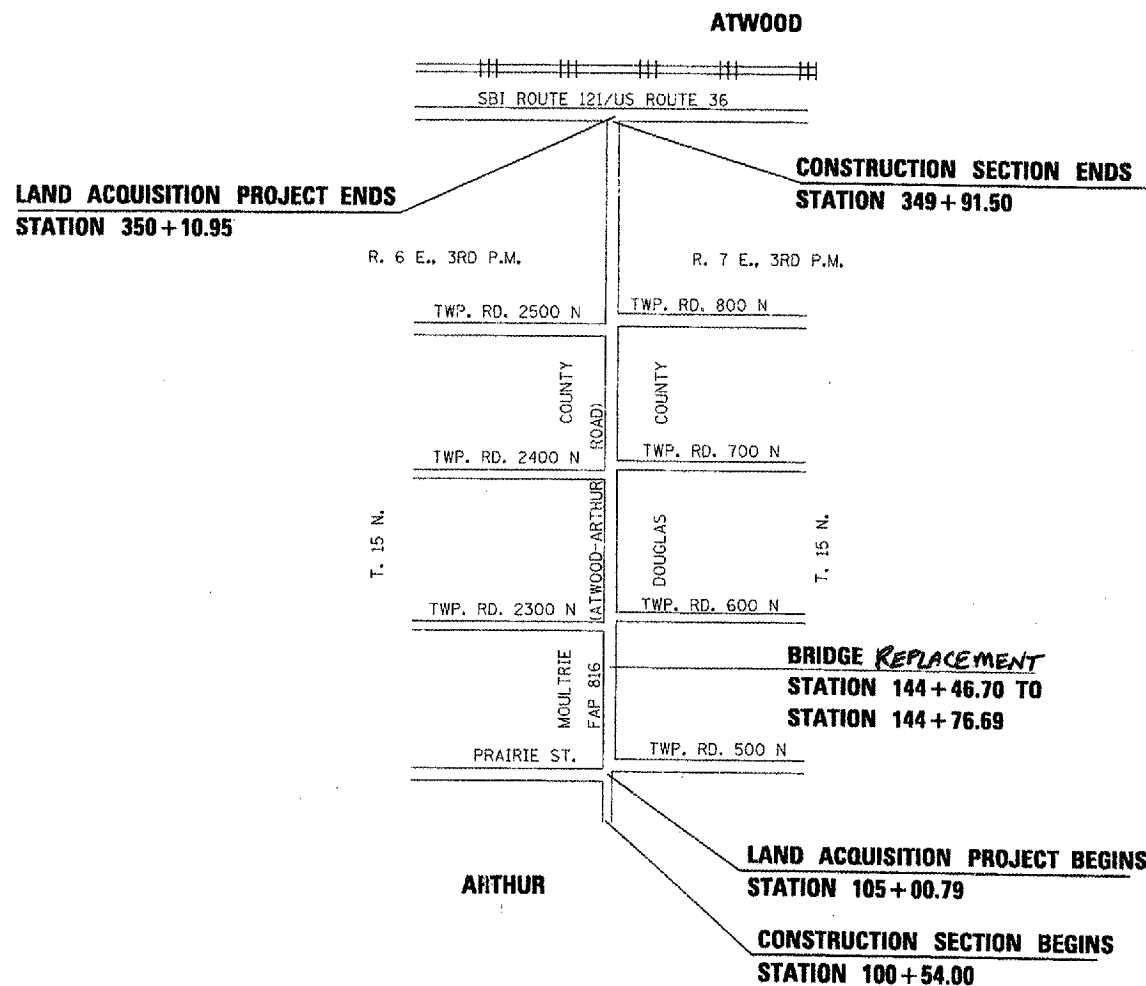
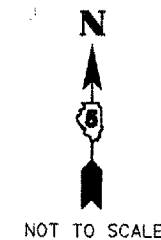
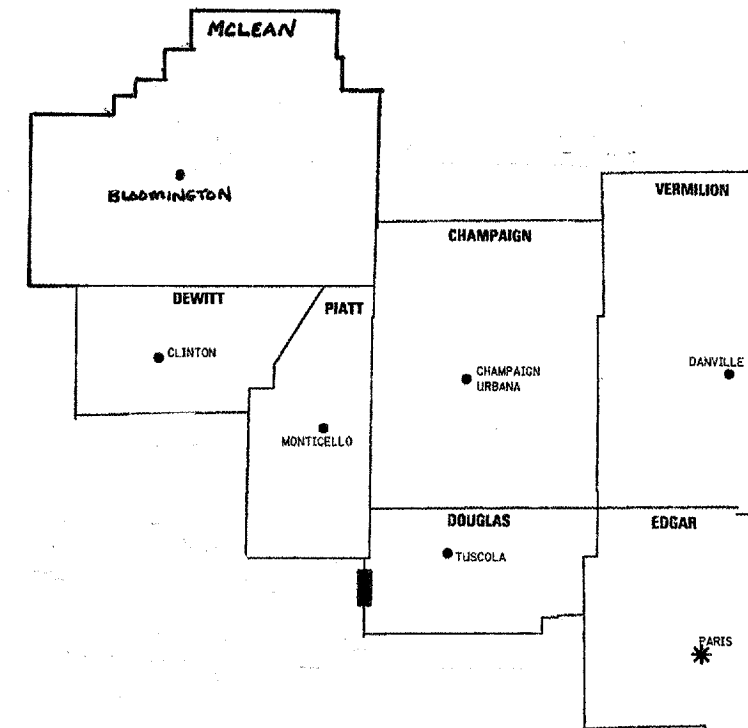
SCALE: VERT. _____
 HORIZ. _____
 DATE: 11/24/03

DRAWN BY: JJO
 CHECKED BY: PJM

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
RIGHT OF WAY PLANS
FOR PROPOSED
FEDERAL AID HIGHWAY

F.A.P. ROUTE 816 (ATWOOD-ARTHUR ROAD)
SECTION 6RS-1 & (6BR)BR
JOB NO. R-95-061-02
MOULTRIE COUNTY
DOUGLAS COUNTY

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	#	DOUGLAS	176	47
CONTRACT NO. 90711			ROW SHEET 1 OF 18	
*6RS-1 & (6BR)BR				



* DISTRICT HEADQUARTERS
 — PROJECT LOCATION

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED 7/23 20 08
Joseph E. Crowe, P.E.
 JOSEPH E. CROWE, P.E.
 DEPUTY DIRECTOR OF HIGHWAYS,
 REGION THREE ENGINEER

EXAMINED JULY 23 20 08
Kenneth W. Heston
 DISTRICT CHIEF OF PLATS & PLANS

PASSED 7/23 20 08
David L. Bayler
 DISTRICT LAND ACQUISITION ENGINEER

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



THIS IS TO CERTIFY THAT THIS IS A TRUE AND CORRECT SET OF PLANS MADE UNDER MY DIRECTION FOR THE DIVISION OF HIGHWAYS, STATE OF ILLINOIS

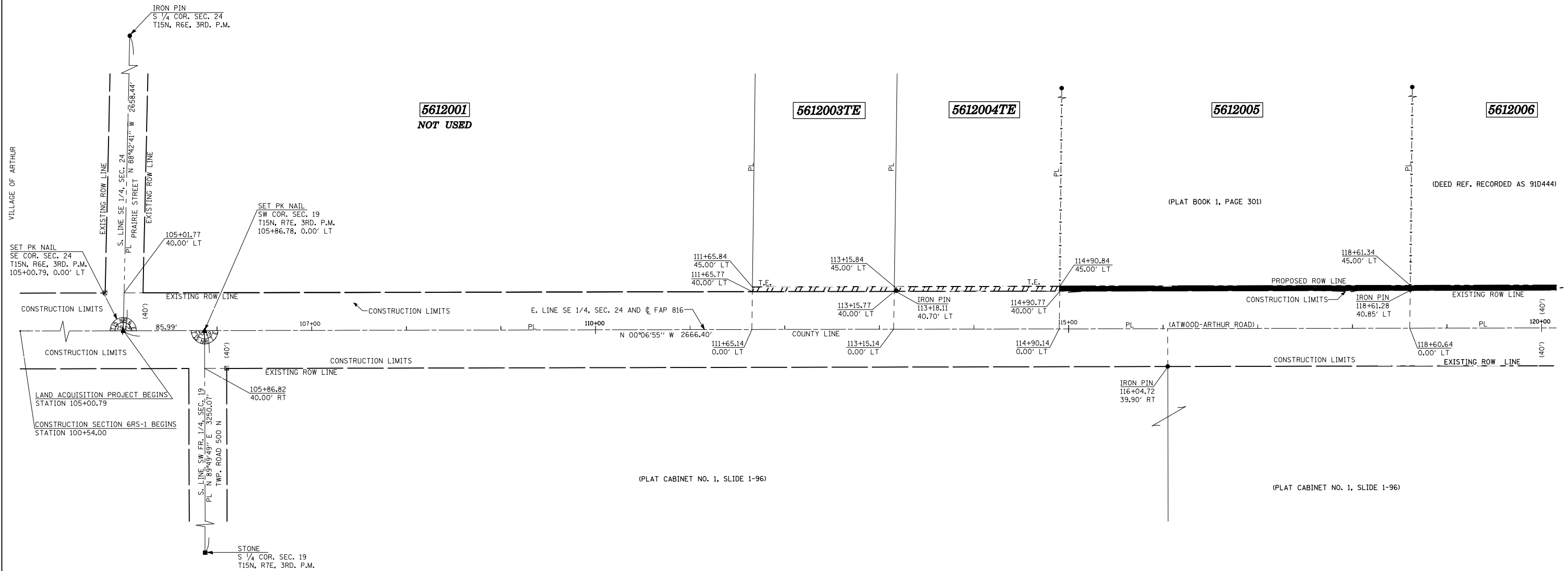
Brian R. Myers 3-28-07
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3032
 LICENSE EXPIRES 11-30-08

LENGTH OF LAND ACQUISITION PROJECT = 24510 FEET = 4.642 MILES

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6RS-1&6BR1R	DOUGLAS	176	48
STA. 104+00		TO STA. 120+00		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 90711				

ROW SHEET 2 OF 18

S.E. 1/4, SEC. 24, T15N, R6E, 3RD. P.M., MOULTRIE COUNTY

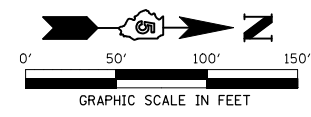


S.W. FR. 1/4, SEC. 19, T15N, R7E, 3RD. P.M., DOUGLAS COUNTY

*AREA REMAINING IS AN ESTIMATED AREA

- LEGEND**
- ⊗ R.O.W. MARKER FOUND
 - - - EXISTING FENCE
 - () RECORD DATA
 - IRON PIN/PIPE FOUND
 - SET COTTON SPINDLE
 - PL PROPERTY LINE
 - ▲ SET PK NAIL
 - ▲ FOUND PK NAIL
 - ⊕ FOUND CROSS IN CONCRETE
 - FOUND STONE OR VAULT
- BEARINGS BASED ON IL STATE PLANE COORDINATES, NAD 83, EAST ZONE.

PARCEL NO.	OWNER	AREA OF WHOLE	AREA TAKEN	PREV. DED OR USE	AREA REMAINING	TEMPORARY EASEMENT	EASEMENT PURPOSE
5612001	HENRY D. AND MARY HERSCHBERGER	5.90 AC.±	0.000 AC.±	0.610 AC.±	5.290 AC.±		
5612003TE	KITCHEN SEED COMPANY, INC.					0.017 AC.±	GRADING/SHAPING
5612004TE	PHILLIP E. AND MARILYN KITCHEN					0.020 AC.±	GRADING/SHAPING
5612005	O-S VILLAGE OF TWIN OAKS	5.00 AC.±	0.383 AC.±	0.340 AC.±	4.617 AC.±		



REVISIONS	
NAME	DATE
PARCEL 5612001 DELETED	6/27/07
PARCEL 5612002 REDUCED	6/27/07

ILLINOIS DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY PLAN
 ROUTE FAP 816 (ATWOOD-ARTHUR ROAD)
 SECTION 6RS-1 & (6BR1R)
 COUNTY MOULTRIE & DOUGLAS
 JOB NO. R-95-061-02
 SECTION 24, T.15N., R.6E., 3RD P.M.
 SECTION 19, T.15N., R.7E., 3RD P.M.
 STA. 104+00 STA. 120+00
 DRAWN TFG
 SCALE: 1"= 50'
 CHECKED PDN
 ROW SHEET 2 OF 18

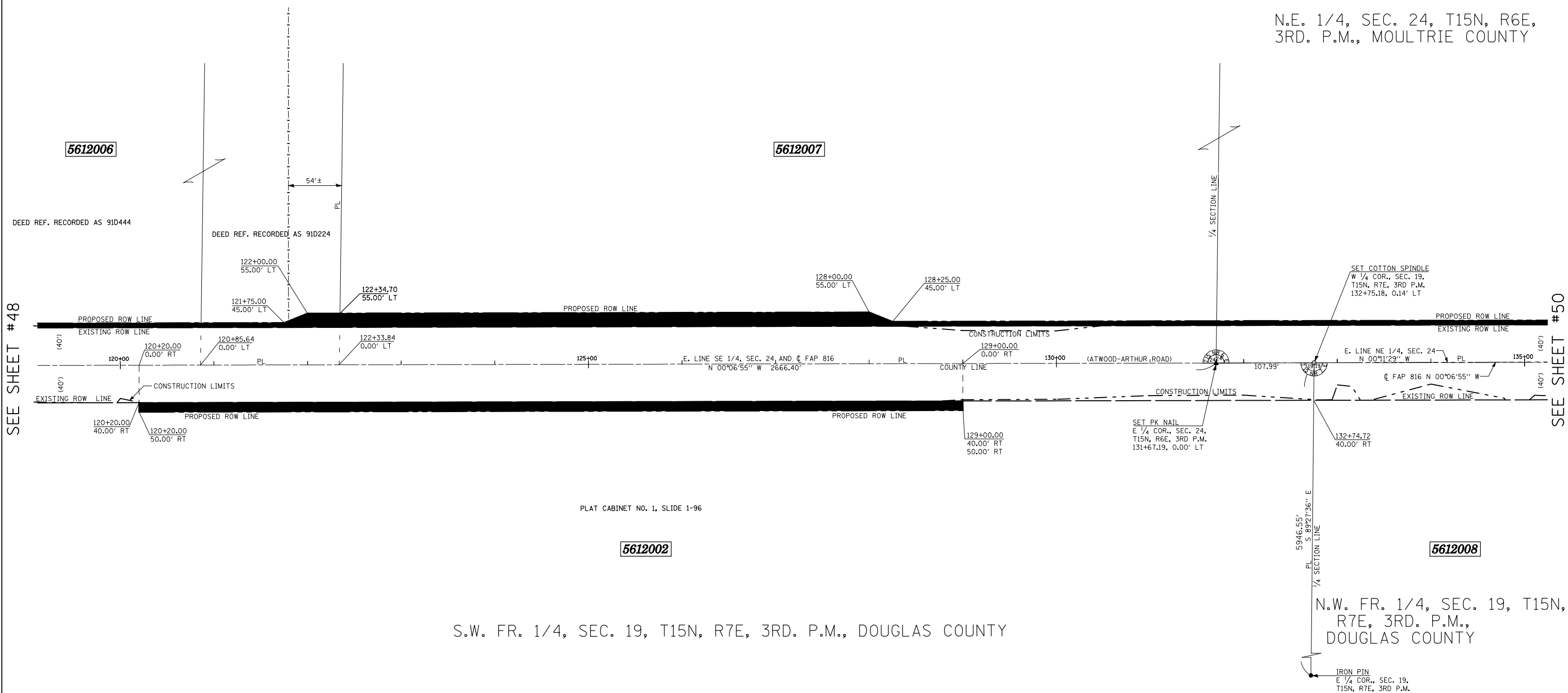
SEE SHEET # 49

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	GRS-1&(6BR)BR	DOUGLAS	176	49
STA. 120+00		TO STA. 135+00		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 90711				

ROW SHEET 3 OF 18

S.E. 1/4, SEC. 24, T15N, R6E, 3RD. P.M., MOULTRIE COUNTY

N.E. 1/4, SEC. 24, T15N, R6E, 3RD. P.M., MOULTRIE COUNTY



SEE SHEET #48

SEE SHEET #50

PLAT CABINET NO. 1, SLIDE 1-96

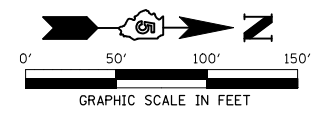
S.W. FR. 1/4, SEC. 19, T15N, R7E, 3RD. P.M., DOUGLAS COUNTY

N.W. FR. 1/4, SEC. 19, T15N, R7E, 3RD. P.M., DOUGLAS COUNTY

- LEGEND**
- ⊗ R.O.W. MARKER FOUND
 - - - EXISTING FENCE
 - () RECORD DATA
 - IRON PIN/PIPE FOUND
 - SET COTTON SPINDLE
 - PROPERTY LINE
 - ▲ SET PK NAIL
 - △ FOUND PK NAIL
 - ⊕ FOUND CROSS IN CONCRETE
 - FOUND STONE OR VAULT
- BEARINGS BASED ON IL STATE PLANE COORDINATES, NAD 83, EAST ZONE.

PARCEL NO.	OWNER	AREA OF WHOLE	AREA TAKEN	PREV. DED OR USE	AREA * REMAINING	TEMPORARY EASEMENT	EASEMENT PURPOSE
5612002	AG FARMS, INC.	157.50 AC.±	0.808 AC.±	0.202 AC.±	156.692 AC.±		
5612006	PHYLLIS A. MARTIN	8.90 AC.±	0.396 AC.±	0.343 AC.±	8.504 AC.±		
5612007	SOVILLA S. HERSCHBERGER	124.75 AC.±	1.515 AC.±	1.227 AC.±	123.235 AC.±		

* AREA OF REMAINING IS AN ESTIMATED AREA



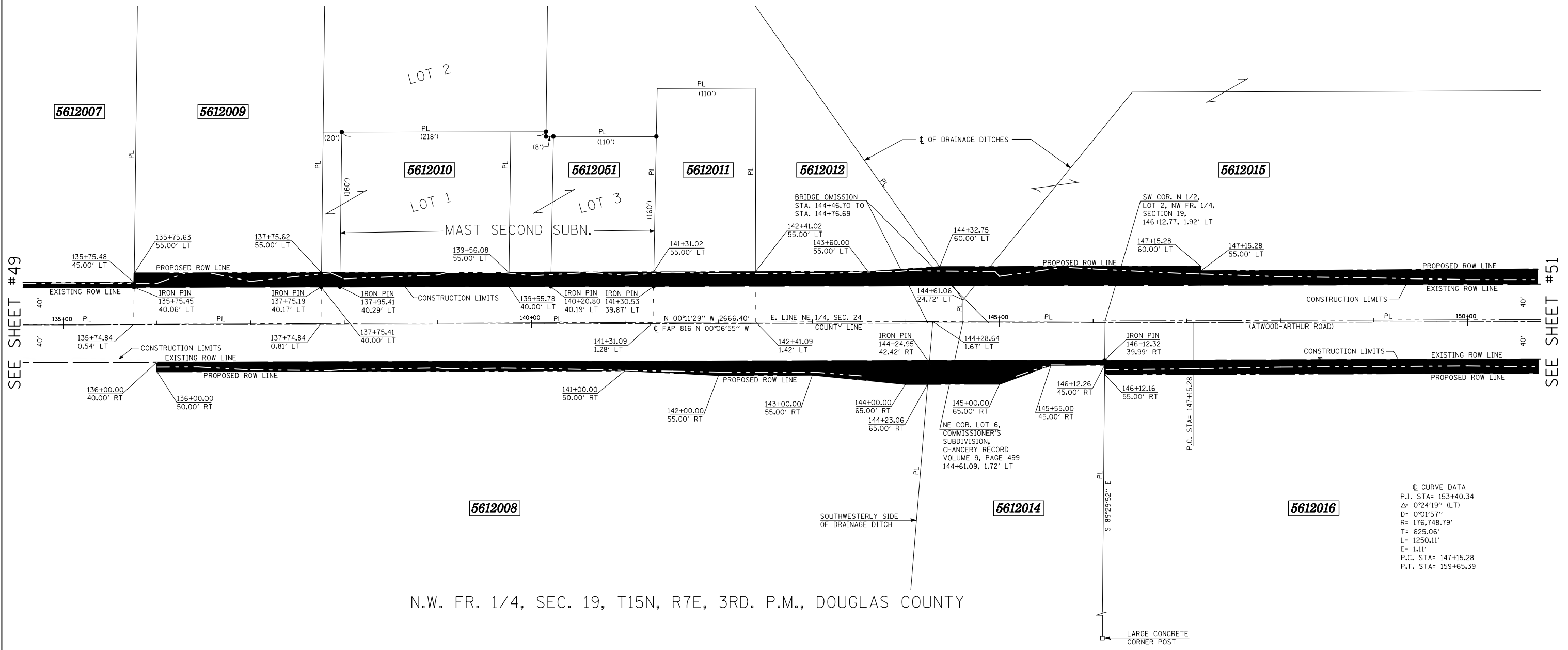
REVISIONS	
NAME	DATE
5612002 PROP ROW REDUCED	6/27/07

ILLINOIS DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY PLAN
 ROUTE FAP 816 (ATWOOD-ARTHUR ROAD)
 SECTION GRS-1 & (6BR)BR
 COUNTY MOULTRIE & DOUGLAS
 JOB NO. R-95-061-02
 SECTION 24, T.15N., R.6E., 3RD P.M.
 SECTION 19, T.15N., R.7E., 3RD P.M.
 STA. 120+00 STA. 135+00
 DRAWN TFG
 SCALE: 1"= 50'
 CHECKED PDN/BRM
 ROW SHEET 3 OF 18

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	BRS-1 & (6BR)BR	DOUGLAS	176	50
STA. 135+00		TO STA. 150+00		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 90711				

N.E. 1/4, SEC. 24, T15N, R6E, 3RD. P.M., MOULTRIE COUNTY

ROW SHEET 4 OF 18



N.W. FR. 1/4, SEC. 19, T15N, R7E, 3RD. P.M., DOUGLAS COUNTY

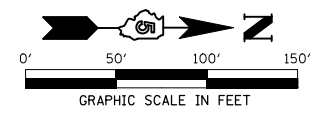
* AREA OF REMAINING IS AN ESTIMATED AREA

LEGEND

- ⊗ R.O.W. MARKER FOUND
- - - EXISTING FENCE
- () RECORD DATA
- IRON PIN/PIPE FOUND
- SET COTTON SPINDLE
- PROPERTY LINE
- ▲ SET PK NAIL
- ▲ FOUND PK NAIL
- ⊕ FOUND CROSS IN CONCRETE
- FOUND STONE OR VAULT

BEARINGS BASED ON IL STATE PLANE COORDINATES, NAD 83, EAST ZONE.

PARCEL NO.	OWNER	AREA OF WHOLE	AREA TAKEN	PREV. DED OR USE	AREA * REMAINING	TEMPORARY EASEMENT	EASEMENT PURPOSE
5612008	SUSIE J. HERSCHBERGER	17.30 AC.±	1.018 AC.±	0.781 AC.±	16.282 AC.±		
5612009	FERRELLGAS, L.P.	2.18 AC.±	0.249 AC.±	0.180 AC.±	1.931 AC.±		
5612010	TIMOTHY R. MAST	0.683 AC.±	0.062 AC.±	0.000 AC.±	0.621 AC.±		
5612051	PAUL R. MAST	0.612 AC.±	0.060 AC.±	0.000 AC.±	0.552 AC.±		
5612011	R. DENNIS MILLER	0.631 AC.±	0.135 AC.±	0.097 AC.±	0.496 AC.±		
5612012	MARCIA K. MILLER	2.72 AC.±	0.266 AC.±	0.192 AC.±	2.454 AC.±		
5612014	DAVID P. AND SHIRLEY HALE	6.638 AC.±	0.247 AC.±	0.178 AC.±	6.391 AC.±		
5612013	DELETED						



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY PLAN
 ROUTE FAP 816 (ATWOOD-ARTHUR ROAD)
 SECTION 6RS-1 & (6BR)BR
 COUNTY MOULTRIE & DOUGLAS
 JOB NO. R-95-061-02
 SECTION 24, T.15N., R.6E., 3RD P.M.
 SECTION 19, T.15N., R.7E., 3RD P.M.
 STA. 135+00 STA. 150+00
 DRAWN TFG
 SCALE: 1"= 50'
 CHECKED PDN/BRM

SEE SHEET #49

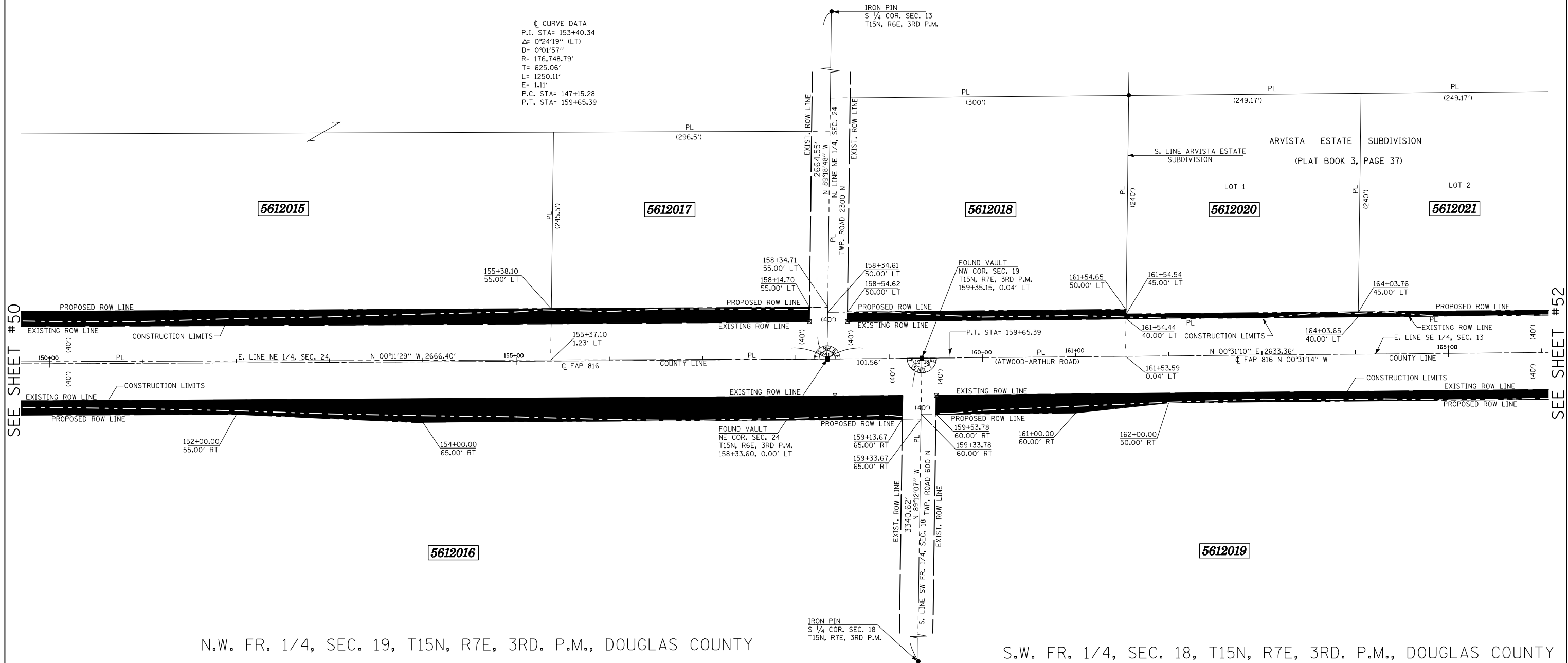
SEE SHEET #51

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	BRS-1 & (6BR)BR	DOUGLAS	176	51
STA. 150+00		TO STA. 165+00		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 90711				

N.E. 1/4, SEC. 24, T15N, R6E, 3RD. P.M., MOULTRIE COUNTY

S.E. 1/4, SEC. 13, T15N, R6E, 3RD. P.M., MOULTRIE COUNTY

ROW SHEET 5 OF 18



SEE SHEET #50

SEE SHEET #52

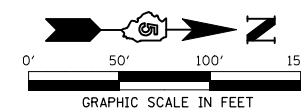
N.W. FR. 1/4, SEC. 19, T15N, R7E, 3RD. P.M., DOUGLAS COUNTY

S.W. FR. 1/4, SEC. 18, T15N, R7E, 3RD. P.M., DOUGLAS COUNTY

* AREA OF REMAINING IS AN ESTIMATED AREA

PARCEL NO.	OWNER	AREA OF WHOLE	AREA TAKEN	PREV. DED OR USE	AREA * REMAINING	TEMPORARY EASEMENT	EASEMENT PURPOSE
5612015	ORVA S., FERN M. AND OMAR J. HELMUTH	85.4 AC.±	1.358 AC.±	0.954 AC.±	84.042 AC.±		
5612016	SUCCESSOR TRUSTEE TO JOY FRAZIER, TRUSTEE AND ATWOOD STATE BANK, TRUSTEE	220.0 AC.±	1.858 AC.±	1.241 AC.±	218.142 AC.±		
5612017	JACOB A. AND FANNIE MAE HELMUTH	1.670 AC.±	0.370 AC.±	0.275 AC.±	1.30 AC.±		
5612018	GLEN RAY AND SUE E. MAST	2.057 AC.±	0.367 AC.±	0.298 AC.±	1.690 AC.±		
5612019	BETTY D. JONES, LIFE ESTATE	145.4 AC.±	4.573 AC.±	3.627 AC.±	140.827 AC.±		
5612020	EDWARD D. AND MARY LOU COOKSON	1.373 AC.±	0.029 AC.±		1.344 AC.±		
5612021	WILLIAM E. AND RITA IRENE CRANE	1.373 AC.±	0.029 AC.±		1.344 AC.±		

- LEGEND**
- ⊗ R.O.W. MARKER FOUND
 - - - EXISTING FENCE
 - () RECORD DATA
 - IRON PIN/PIPE FOUND
 - SET COTTON SPINDLE
 - PROPERTY LINE
 - ▲ SET PK NAIL
 - ▲ FOUND PK NAIL
 - ⊕ FOUND CROSS IN CONCRETE
 - FOUND STONE OR VAULT
- BEARINGS BASED ON IL STATE PLANE COORDINATES, NAD 83, EAST ZONE.



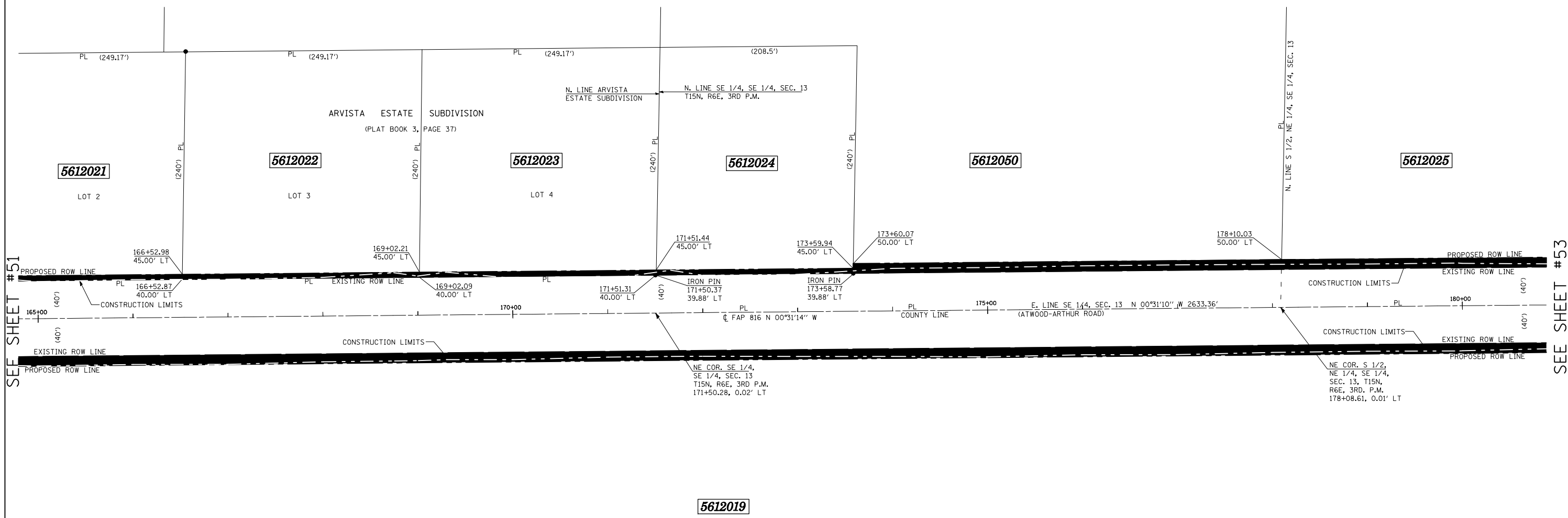
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY PLAN
 ROUTE FAP 816 (ATWOOD-ARTHUR ROAD)
 SECTION 6RS-1 & (6BR)BR
 COUNTY MOULTRIE & DOUGLAS
 JOB NO. R-95-061-02
 SECTIONS 24 & 13, T.15N., R.6E., 3RD P.M.
 SECTIONS 19 & 18, T.15N., R.7E., 3RD P.M.
 STA. 150+00 STA. 165+00
 DRAWN TFG
 SCALE: 1"= 50'
 CHECKED PDN/BRM

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	BRS-1 & (6B)RBR	DOUGLAS	176	52
STA. 165+00		TO STA. 180+00		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 90711				

S.E. 1/4, SEC. 13, T15N, R6E, 3RD. P.M., MOULTRIE COUNTY

ROW SHEET 6 OF 18



SEE SHEET #51

SEE SHEET #53

S.W. FR. 1/4, SEC. 18, T15N, R7E, 3RD. P.M., DOUGLAS COUNTY

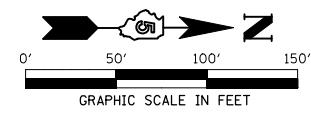
* AREA OF REMAINING IS AN ESTIMATED AREA

LEGEND

- ⊗ R.O.W. MARKER FOUND
- - - EXISTING FENCE
- () RECORD DATA
- IRON PIN/PIPE FOUND
- SET COTTON SPINDLE
- PROPERTY LINE
- ▲ SET PK NAIL
- ▲ FOUND PK NAIL
- ⊕ FOUND CROSS IN CONCRETE
- ⊕ FOUND STONE OR VAULT

BEARINGS BASED ON IL STATE PLANE COORDINATES, NAD 83, EAST ZONE.

PARCEL NO.	OWNER	AREA OF WHOLE	AREA TAKEN	PREV. DED OR USE	AREA REMAINING	TEMPORARY EASEMENT	EASEMENT PURPOSE
5612019	BETTY D. JONES, LIFE ESTATE	145.4 AC.±	4.573 AC.±	3.627 AC.±	140.827 AC.±		
5612021	WILLIAM E. AND RITA IRENE CRANE	1.373 AC.±	0.029 AC.±		1.344 AC.±		
5612022	JERRY J. AND GWEN E. RAY	1.373 AC.±	0.029 AC.±		1.344 AC.±		
5612023	SCOTT T. AND KIMBERLY L. DAILY	1.373 AC.±	0.029 AC.±		1.344 AC.±		
5612024	KENNETH E. BEACHY	1.149 AC.±	0.024 AC.±		1.125 AC.±		
5612050	KENNETH E. BEACHY, RICHARD LEE BEACHY AND ESTHER M. BEACHY	19.050 AC.±	0.708 AC.±	0.604 AC.±	18.342 AC.±		



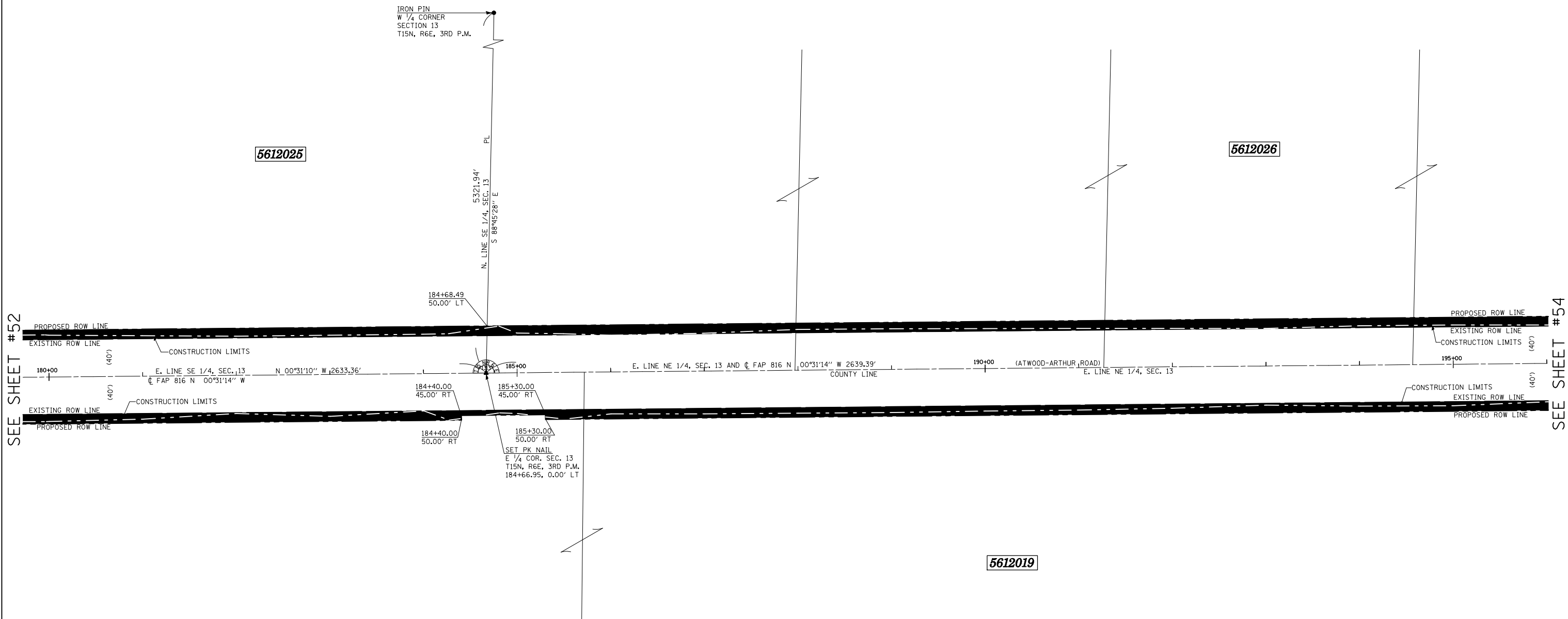
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY PLAN
 ROUTE FAP 816 (ATWOOD-ARTHUR ROAD)
 SECTION 6RS-1 & (6B)RBR
 COUNTY MOULTRIE & DOUGLAS
 JOB NO. R-95-061-02
 SECTION 13, T.15N., R.6E., 3RD P.M.
 SECTION 18, T.15N., R.7E., 3RD P.M.
 STA. 165+00 STA. 180+00
 DRAWN TFG
 SCALE: 1"= 50'
 CHECKED PDN/BRM

N.E. 1/4, SEC. 13, T15N, R6E, 3RD. P.M., MOULTRIE COUNTY

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	BRS-1 & (6BR)BR	DOUGLAS	176	53
STA. 180+00		TO STA. 195+00		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 90711				

ROW SHEET 7 OF 18



SEE SHEET #52

SEE SHEET #54

S.W. FR. 1/4, SEC. 18, T15N, R7E, 3RD. P.M., DOUGLAS COUNTY

N.W. FR. 1/4, SEC. 18, T15N, R7E, 3RD. P.M., DOUGLAS COUNTY

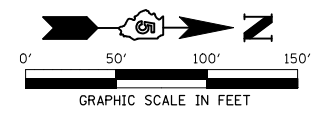
* AREA OF REMAINING IS AN ESTIMATED AREA

LEGEND

- ⊗ R.O.W. MARKER FOUND
- - - EXISTING FENCE
- () RECORD DATA
- IRON PIN/PIPE FOUND
- SET COTTON SPINDLE
- PROPERTY LINE
- ▲ SET PK NAIL
- △ FOUND PK NAIL
- ⊕ FOUND CROSS IN CONCRETE
- FOUND STONE OR VAULT

BEARINGS BASED ON IL STATE PLANE COORDINATES, NAD 83, EAST ZONE.

PARCEL NO.	OWNER	AREA OF WHOLE	AREA TAKEN	PREV. DED OR USE	AREA * REMAINING	TEMPORARY EASEMENT	EASEMENT PURPOSE
5612019	BETTY D. JONES, LIFE ESTATE	145.4 AC.±	4.583 AC.±	3.627 AC.±	140.817 AC.±		
5612025	BETTY L. AND VERNON J. MILLER	20.20 AC.±	0.756 AC.±	0.604 AC.±	19.444 AC.±		
5612026	RICHARD LEE AND ESTHER M. BEACHY	161.30 AC.±	3.049 AC.±	2.445 AC.±	158.25 AC.±		



REVISIONS	
NAME	DATE

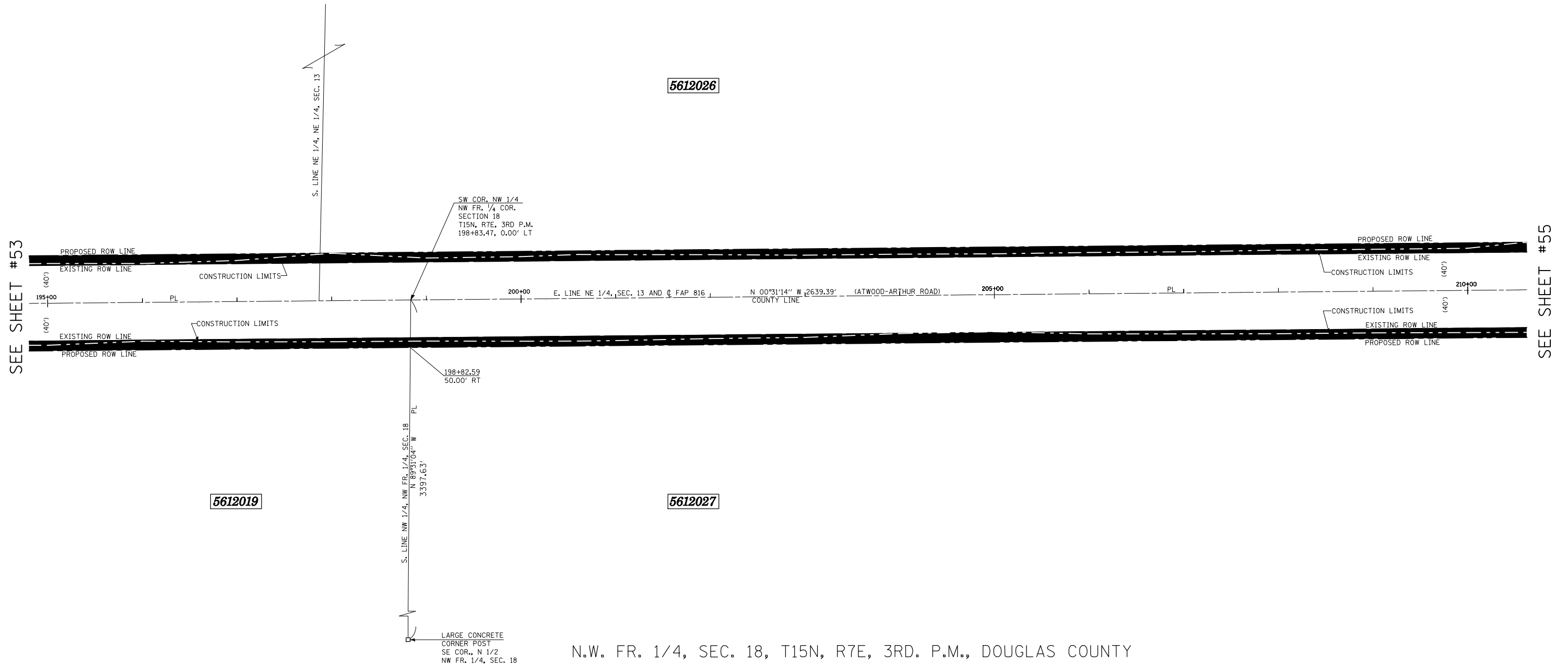
ILLINOIS DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY PLAN
 ROUTE FAP 816 (ATWOOD-ARTHUR ROAD)
 SECTION 6RS-1 & (6BR)BR
 COUNTY MOULTRIE & DOUGLAS
 JOB NO. R-95-061-02
 SECTION 13, T.15N., R.6E., 3RD P.M.
 SECTION 18, T.15N., R.7E., 3RD P.M.
 STA. 180+00 STA. 195+00
 DRAWN TFG
 SCALE: 1"= 50'

CHECKED PDN/BRM

N.E. 1/4, SEC. 13, T15N, R6E, 3RD. P.M., MOULTRIE COUNTY

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	BRS-1 & (6BR)BR	DOUGLAS	176	54
STA. 195+00		TO STA. 210+00		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 90711				

ROW SHEET 8 OF 18



SEE SHEET #53

SEE SHEET #55

5612019

5612026

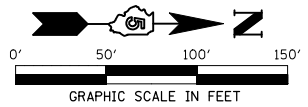
5612027

N.W. FR. 1/4, SEC. 18, T15N, R7E, 3RD. P.M., DOUGLAS COUNTY

- LEGEND**
- ⊗ R.O.W. MARKER FOUND
 - - - EXISTING FENCE
 - () RECORD DATA
 - IRON PIN/PIPE FOUND
 - SET COTTON SPINDLE
 - PROPERTY LINE
 - ▲ SET PK NAIL
 - ▲ FOUND PK NAIL
 - ⊕ FOUND CROSS IN CONCRETE
 - FOUND STONE OR VAULT
- BEARINGS BASED ON IL STATE PLANE COORDINATES, NAD 83, EAST ZONE.

PARCEL NO.	OWNER	AREA OF WHOLE	AREA TAKEN	PREV. DED OR USE	AREA * REMAINING	TEMPORARY EASEMENT	EASEMENT PURPOSE
5612026	RICHARD LEE AND ESTHER M. BEACHY	161.3 AC.±	3.049 AC.±	2.445 AC.±	158.25 AC.±		
5612027	KENNETH D. OHLSEN	102.90 AC.±	1.504 AC.±	1.203 AC.±	101.396 AC.±		

* AREA OF REMAINING IS AN ESTIMATED AREA



REVISIONS	
NAME	DATE

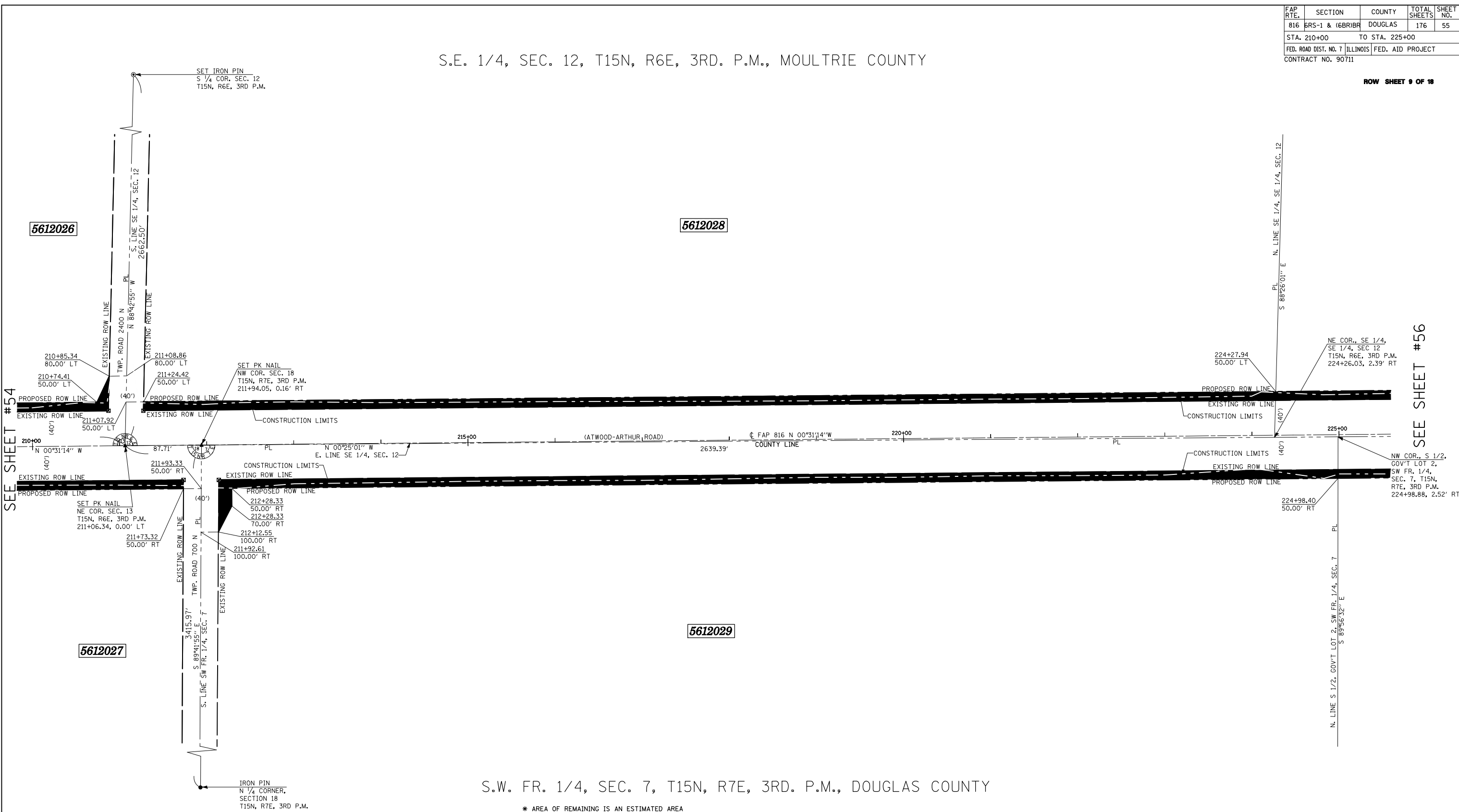
ILLINOIS DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY PLAN
 ROUTE FAP 816 (ATWOOD-ARTHUR ROAD)
 SECTION 6RS-1 & (6BR)BR
 COUNTY MOULTRIE & DOUGLAS
 JOB NO. R-95-061-02
 SECTION 13, T.15N., R.6E., 3RD P.M.
 SECTION 18, T.15N., R.7E., 3RD P.M.
 STA. 195+00 STA. 210+00
 DRAWN TFG
 SCALE: 1"= 50'

CHECKED PDN/BRM

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	BRS-1 & (6BR)BR	DOUGLAS	176	55
STA. 210+00		TO STA. 225+00		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 90711				

ROW SHEET # OF 18

S.E. 1/4, SEC. 12, T15N, R6E, 3RD. P.M., MOULTRIE COUNTY



SEE SHEET #54

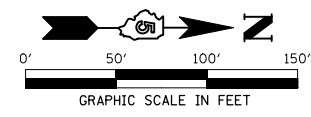
SEE SHEET #56

S.W. FR. 1/4, SEC. 7, T15N, R7E, 3RD. P.M., DOUGLAS COUNTY

* AREA OF REMAINING IS AN ESTIMATED AREA

- LEGEND**
- ⊗ R.O.W. MARKER FOUND
 - - - EXISTING FENCE
 - () RECORD DATA
 - IRON PIN/PIPE FOUND
 - ⊙ SET IRON PIN
 - PL PROPERTY LINE
 - ▲ SET PK NAIL
 - ▲ FOUND PK NAIL
 - ⊕ FOUND CROSS IN CONCRETE
 - FOUND STONE OR VAULT
- BEARINGS BASED ON IL STATE PLANE COORDINATES, NAD 83, EAST ZONE.

PARCEL NO.	OWNER	AREA OF WHOLE	AREA TAKEN	PREV. DED OR USE	AREA * REMAINING	TEMPORARY EASEMENT	EASEMENT PURPOSE
5612028	JILL K. McNULTY AND JUDITH A. BRIDGES	40.40 AC.±	1.551 AC.±	1.253 AC.±	38.849 AC.±		
5612029	BETTY D. JONES, LIFE ESTATE	20.00 AC.±	1.493 AC.±	1.186 AC.±	18.507 AC.±		



REVISIONS	
NAME	DATE

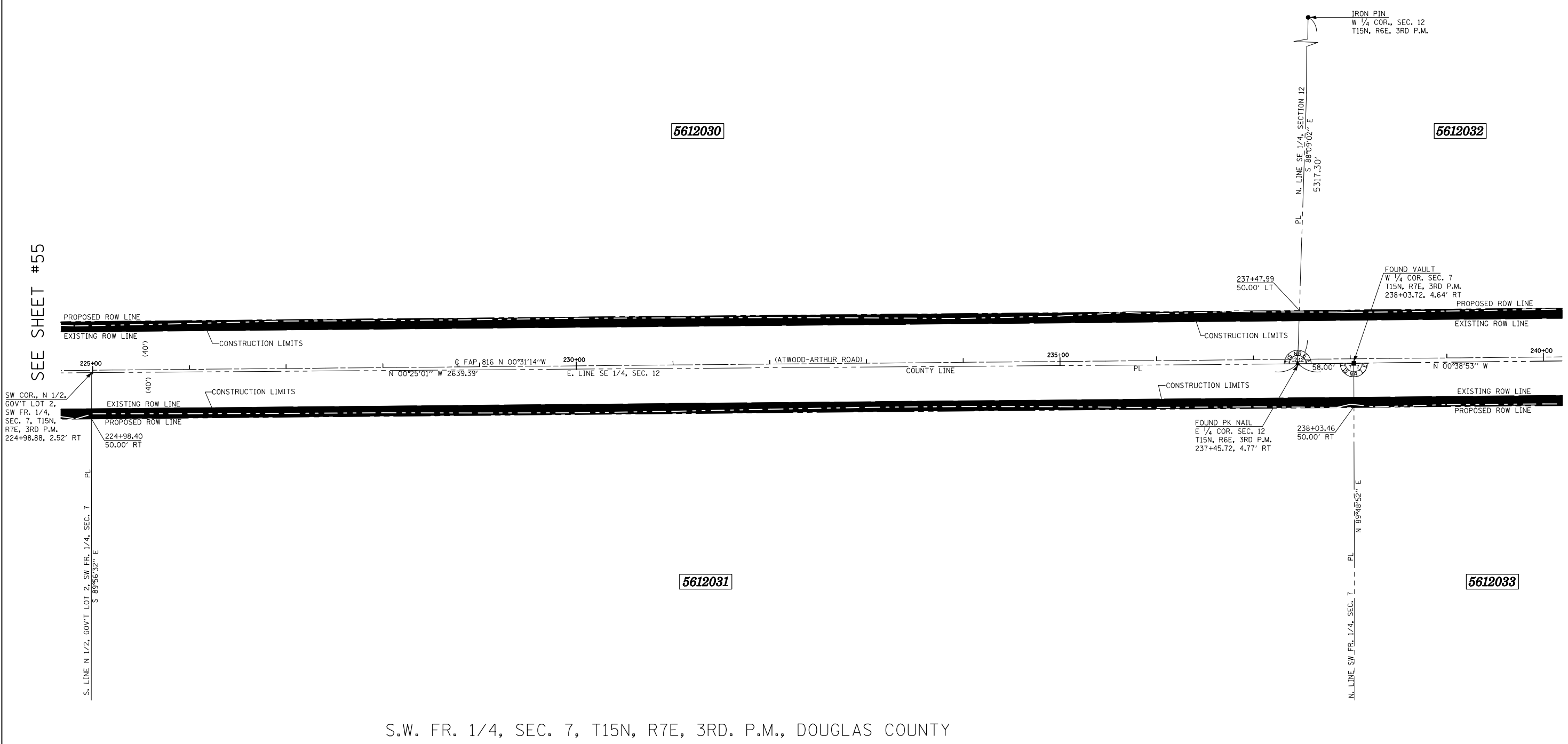
ILLINOIS DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY PLAN
 ROUTE FAP 816 (ATWOOD-ARTHUR ROAD)
 SECTION 6RS-1 & (6BR)BR
 COUNTY MOULTRIE & DOUGLAS
 JOB NO. R-95-061-02
 SECTION 12, T.15N., R.6E., 3RD P.M.
 SECTION 7, T.15N., R.7E., 3RD P.M.
 STA. 210+00 STA. 225+00
 DRAWN TFG
 SCALE: 1"= 50'

CHECKED PDN/BRM

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	BRS-1 & (6BR)BR	DOUGLAS	176	56
STA. 225+00		TO STA. 240+00		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 90711				

S.E. 1/4, SEC. 12, T15N, R6E, 3RD. P.M., MOULTRIE COUNTY

ROW SHEET 10 OF 18



SEE SHEET #55

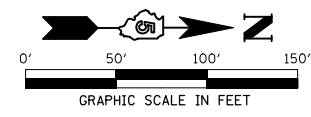
SEE SHEET #57

S.W. FR. 1/4, SEC. 7, T15N, R7E, 3RD. P.M., DOUGLAS COUNTY

* AREA OF REMAINING IS AN ESTIMATED AREA

PARCEL NO.	OWNER	AREA OF WHOLE	AREA TAKEN	PREV. DED OR USE	AREA * REMAINING	TEMPORARY EASEMENT	EASEMENT PURPOSE
5612030	STATE BANK OF ARTHUR, TRUSTEE	40.40 AC.±	1.624 AC.±	1.321 AC.±	38.776 AC.±		
5612031	CHERYL S. HILGENBERG JAMES MICHAEL & JENNIFER DALE TAPEN	103.0 AC.±	1.387 AC.±	1.087 AC.±	101.613 AC.±		

- LEGEND**
- ⊗ R.O.W. MARKER FOUND
 - - - EXISTING FENCE
 - () RECORD DATA
 - IRON PIN/PIPE FOUND
 - SET COTTON SPINDLE
 - PL PROPERTY LINE
 - ▲ SET PK NAIL
 - ▲ FOUND PK NAIL
 - ⊕ FOUND CROSS IN CONCRETE
 - FOUND STONE OR VAULT
- BEARINGS BASED ON IL STATE PLANE COORDINATES, NAD 83, EAST ZONE.



REVISIONS	
NAME	DATE

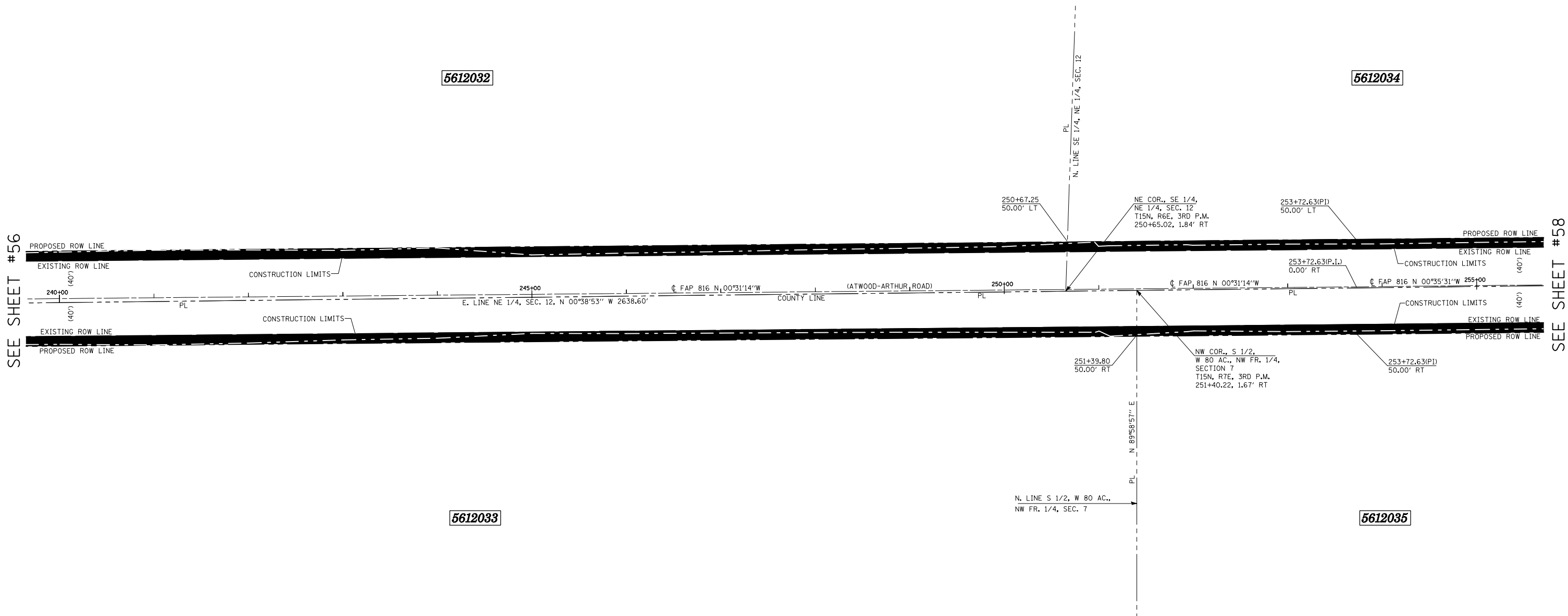
ILLINOIS DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY PLAN
 ROUTE FAP 816 (ATWOOD-ARTHUR ROAD)
 SECTION 6RS-1 & (6BR)BR
 COUNTY MOULTRIE & DOUGLAS
 JOB NO. R-95-061-02
 SECTION 12, T.15N., R.6E., 3RD P.M.
 SECTION 7, T.15N., R.7E., 3RD P.M.
 STA. 225+00 STA. 240+00
 DRAWN TFG
 SCALE: 1"= 50'

CHECKED PDN/BRM

N.E. 1/4, SEC. 12, T15N, R6E, 3RD. P.M., MOULTRIE COUNTY

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6RS-1 & (6BR)BR	DOUGLAS	176	57
STA. 240+00		TO STA. 255+00		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 90711				

ROW SHEET 11 OF 18



N.W. FR. 1/4, SEC. 7, T15N, R7E, 3RD. P.M., DOUGLAS COUNTY

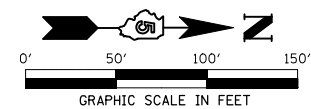
SEE SHEET #56

SEE SHEET #58

* AREA OF REMAINING IS AN ESTIMATED AREA

PARCEL NO.	OWNER	AREA OF WHOLE	AREA TAKEN	PREV. DED OR USE	AREA * REMAINING	TEMPORARY EASEMENT	EASEMENT PURPOSE
5612032	GEORGE THOMAS FREESE & MARY LOUISE WEST	40.20 AC.±	1.614 AC.±	1.311 AC.±	38.586 AC.±		
5612033	ELOISE F. JURGENS	40.0 AC.±	1.437 AC.±	1.130 AC.±	38.563 AC.±		

- LEGEND**
- ⊗ R.O.W. MARKER FOUND
 - - - EXISTING FENCE
 - () RECORD DATA
 - IRON PIN/PIPE FOUND
 - SET COTTON SPINDLE
 - PL PROPERTY LINE
 - ▲ SET PK NAIL
 - ▲ FOUND PK NAIL
 - ⊕ FOUND CROSS IN CONCRETE
 - FOUND STONE OR VAULT
- BEARINGS BASED ON IL STATE PLANE COORDINATES, NAD 83, EAST ZONE.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY PLAN
 ROUTE FAP 816 (ATWOOD-ARTHUR ROAD)
 SECTION 6RS-1 & (6BR)BR
 COUNTY MOULTRIE & DOUGLAS
 JOB NO. R-95-061-02
 SECTION 12, T.15N., R.6E., 3RD P.M.
 SECTION 7, T.15N., R.7E., 3RD P.M.
 STA. 240+00 STA. 255+00
 DRAWN TFG
 SCALE: 1"= 50'

CHECKED PDN/BRM

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	BRS-1 & (6B)RBR	DOUGLAS	176	58
STA. 255+00		TO STA. 270+00		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 90711				

N.E. 1/4, SEC. 12, T15N, R6E, 3RD. P.M., MOULTRIE COUNTY

S.E. 1/4, SEC. 1, T15N, R6E, 3RD. P.M., MOULTRIE COUNTY

ROW SHEET 12 OF 18

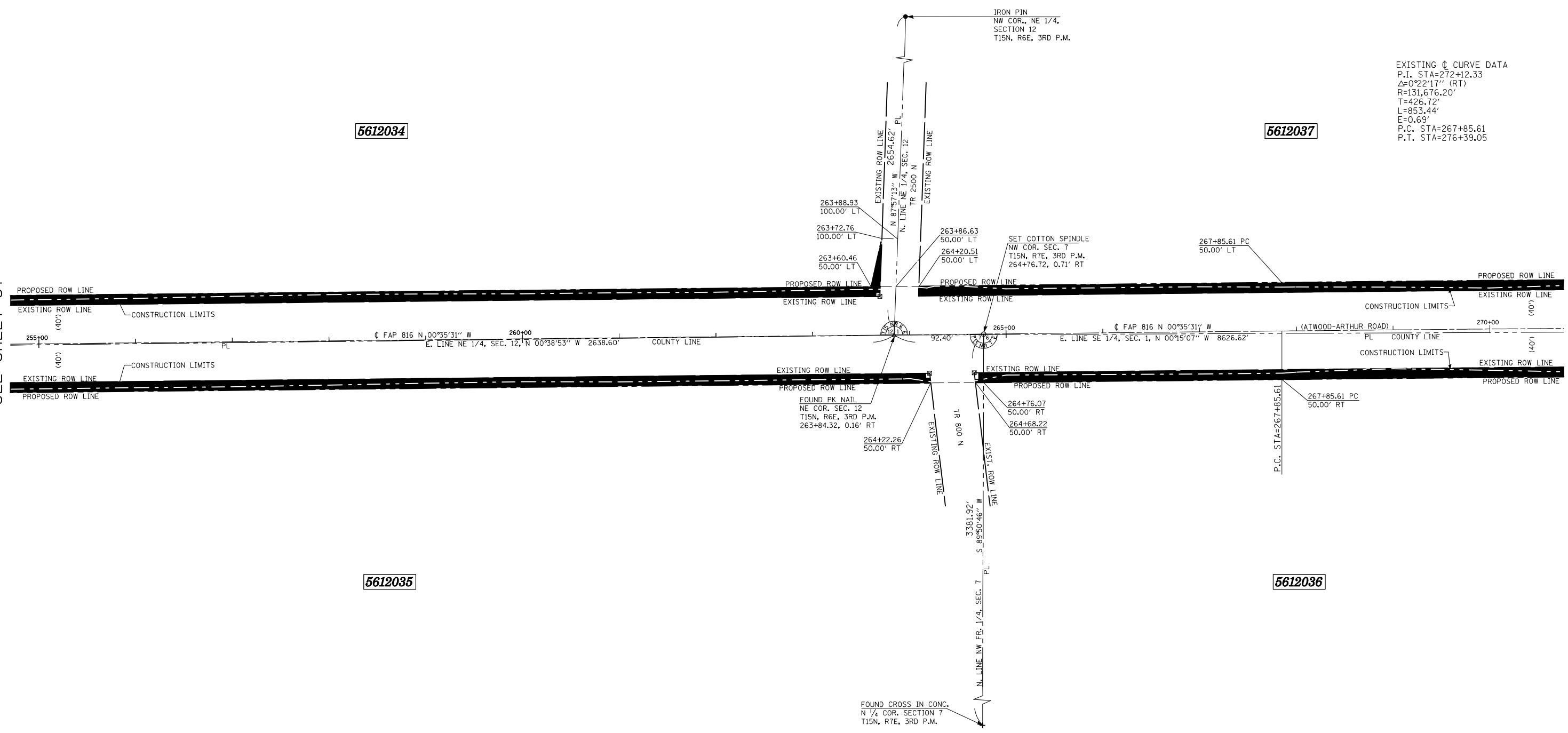
EXISTING @ CURVE DATA
P.I. STA=272+12.33
Δ=0°22'17" (RT)
R=131,676.20'
T=426.72'
L=853.44'
E=0.69'
P.C. STA=267+85.61
P.T. STA=276+39.05

5612034

5612037

SEE SHEET #57

SEE SHEET #59



5612035

5612036

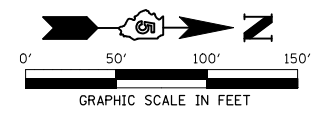
N.W. FR. 1/4, SEC. 7, T15N, R7E, 3RD. P.M., DOUGLAS COUNTY

S.W. FR. 1/4, SEC. 6, T15N, R7E, 3RD. P.M., DOUGLAS COUNTY

* AREA OF REMAINING IS AN ESTIMATED AREA

- LEGEND**
- ⊗ R.O.W. MARKER FOUND
 - - - EXISTING FENCE
 - () RECORD DATA
 - IRON PIN/PIPE FOUND
 - SET COTTON SPINDLE
 - PROPERTY LINE
 - ▲ SET PK NAIL
 - ▲ FOUND PK NAIL
 - ⊕ FOUND CROSS IN CONCRETE
 - FOUND STONE OR VAULT
- BEARINGS BASED ON IL STATE PLANE COORDINATES, NAD 83, EAST ZONE.

PARCEL NO.	OWNER	AREA OF WHOLE	AREA TAKEN	PREV. DED OR USE	AREA * REMAINING	TEMPORARY EASEMENT	EASEMENT PURPOSE
5612034	STEPHEN K. JURGENS	40.20 AC.±	1.564 AC.±	1.259 AC.±	38.64 AC.±		
5612035	CHICAGO TITLE AND TRUST COMPANY	40.0 AC.±	1.510 AC.±	1.214 AC.±	38.49 AC.±		



REVISIONS	
NAME	DATE

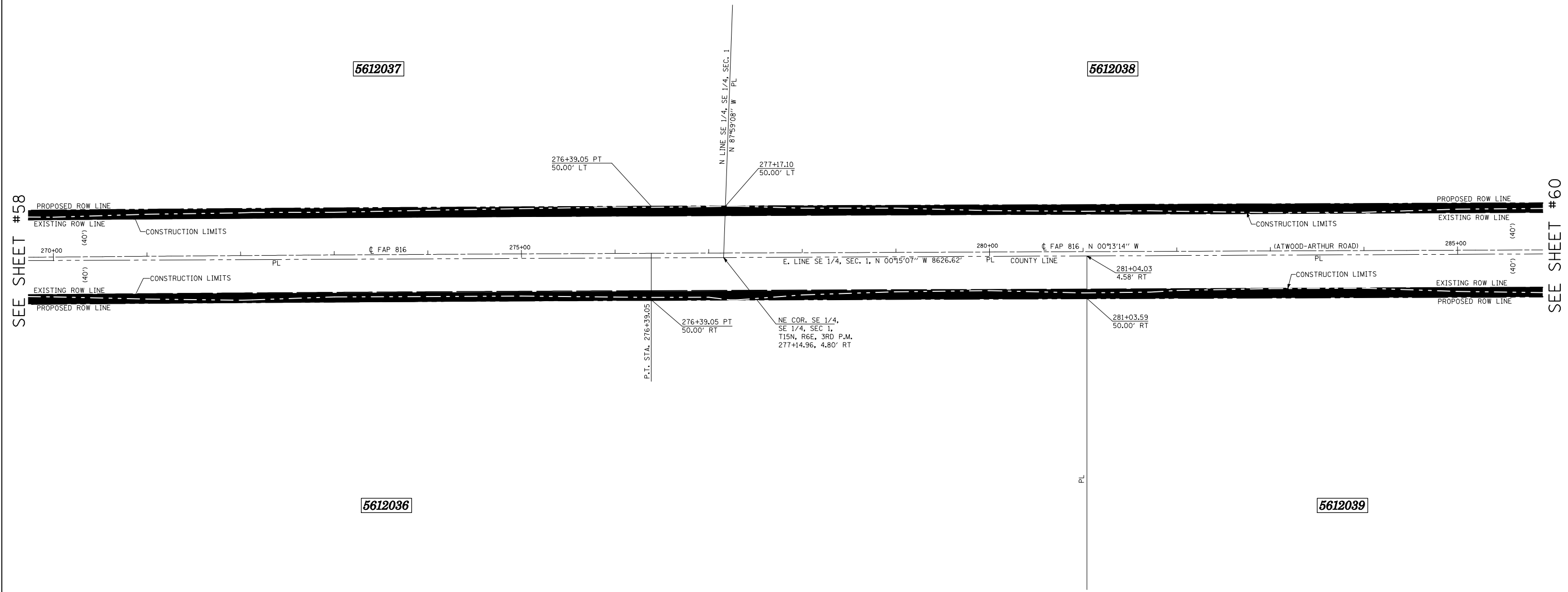
ILLINOIS DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY PLAN
ROUTE FAP 816 (ATWOOD-ARTHUR ROAD)
SECTION 6RS-1 & (6B)RBR
COUNTY MOULTRIE & DOUGLAS
JOB NO. R-95-061-02
SECTIONS 12 & 1, T.15N., R.6E., 3RD P.M.
SECTIONS 7 & 6, T.15N., R.7E., 3RD P.M.
STA. 255+00 STA. 270+00
DRAWN TFG
SCALE: 1"= 50'
CHECKED PDN/BRM

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	BRS-1 & (6BR)BR	DOUGLAS	176	59
STA. 270+00		TO STA. 285+00		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 90711				

ROW SHEET 13 OF 18

EXISTING ϕ CURVE DATA
P.I. STA=272+12.33
 $\Delta=0^{\circ}22'17''$ (RT)
R=131,676.20'
T=426.72'
L=853.44'
E=0.69'
P.C. STA=267+85.61
P.T. STA=276+39.05

S.E. 1/4, SEC. 1, T15N, R6E, 3RD. P.M., MOULTRIE COUNTY



SEE SHEET #58

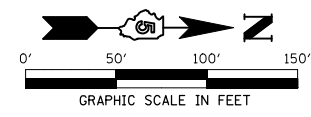
SEE SHEET #60

S.W. FR. 1/4, SEC. 6, T15N, R7E, 3RD. P.M., DOUGLAS COUNTY

* AREA OF REMAINING IS AN ESTIMATED AREA

PARCEL NO.	OWNER	AREA OF WHOLE	AREA TAKEN	PREV. DED OR USE	AREA * REMAINING	TEMPORARY EASEMENT	EASEMENT PURPOSE
5612036	UNIVERSITY OF ILLINOIS	126.0 AC.±	1.725 AC.±	1.351 AC.±	124.3 AC.±		
5612037	RICHARD E. TAYLOR	40.35 AC.±	1.630 AC.±	1.332 AC.±	38.72 AC.±		

- LEGEND**
- ⊗ R.O.W. MARKER FOUND
 - - - EXISTING FENCE
 - () RECORD DATA
 - IRON PIN/PIPE FOUND
 - SET COTTON SPINDLE
 - PL PROPERTY LINE
 - ▲ SET PK NAIL
 - ▲ FOUND PK NAIL
 - ⊕ FOUND CROSS IN CONCRETE
 - FOUND STONE OR VAULT
- BEARINGS BASED ON IL STATE PLANE COORDINATES, NAD 83, EAST ZONE.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY PLAN
ROUTE FAP 816 (ATWOOD-ARTHUR ROAD)
SECTION 6RS-1 & (6BR)BR
COUNTY MOULTRIE & DOUGLAS
JOB NO. R-95-061-02
SECTION 1, T.15N., R.6E., 3RD P.M.
SECTION 6, T.15N., R.7E., 3RD P.M.
STA. 270+00 STA. 285+00
DRAWN TFG
SCALE: 1"= 50'
CHECKED PDN/BRM

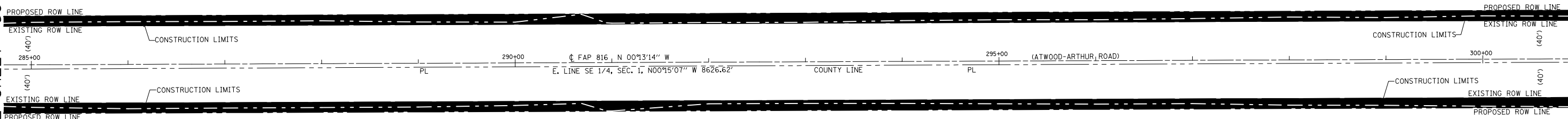
FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	BRS-1 & (6BR)BR	DOUGLAS	176	60
STA. 285+00		TO STA. 300+00		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 90711				

S.E. 1/4, SEC. 1, T15N, R6E, 3RD. P.M., MOULTRIE COUNTY

ROW SHEET 14 OF 18

5612038

SEE SHEET # 59



SEE SHEET # 61

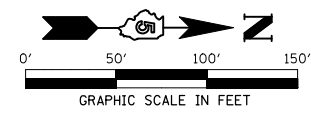
5612039

S.W. FR. 1/4, SEC. 6, T15N, R7E, 3RD. P.M., DOUGLAS COUNTY

* AREA OF REMAINING IS AN ESTIMATED AREA

- LEGEND**
- ⊠ R.O.W. MARKER FOUND
 - - - EXISTING FENCE
 - () RECORD DATA
 - IRON PIN/PIPE FOUND
 - SET COTTON SPINDLE
 - PL PROPERTY LINE
 - ▲ SET PK NAIL
 - ▲ FOUND PK NAIL
 - ⊕ FOUND CROSS IN CONCRETE
 - FOUND STONE OR VAULT
- BEARINGS BASED ON IL STATE PLANE COORDINATES, NAD 83, EAST ZONE.

PARCEL NO.	OWNER	AREA OF WHOLE	AREA TAKEN	PREV. DED OR USE	AREA * REMAINING	TEMPORARY EASEMENT	EASEMENT PURPOSE
5612038	UNIVERSITY OF ILLINOIS	161.7 AC.±	3.303 AC.±	2.692 AC.±	158.4 AC.±		
5612039	WILLOUGHBY TRUST, et al	215.18 AC.±	2.104 AC.±	1.633 AC.±	213.08 AC.±		



REVISIONS	
NAME	DATE

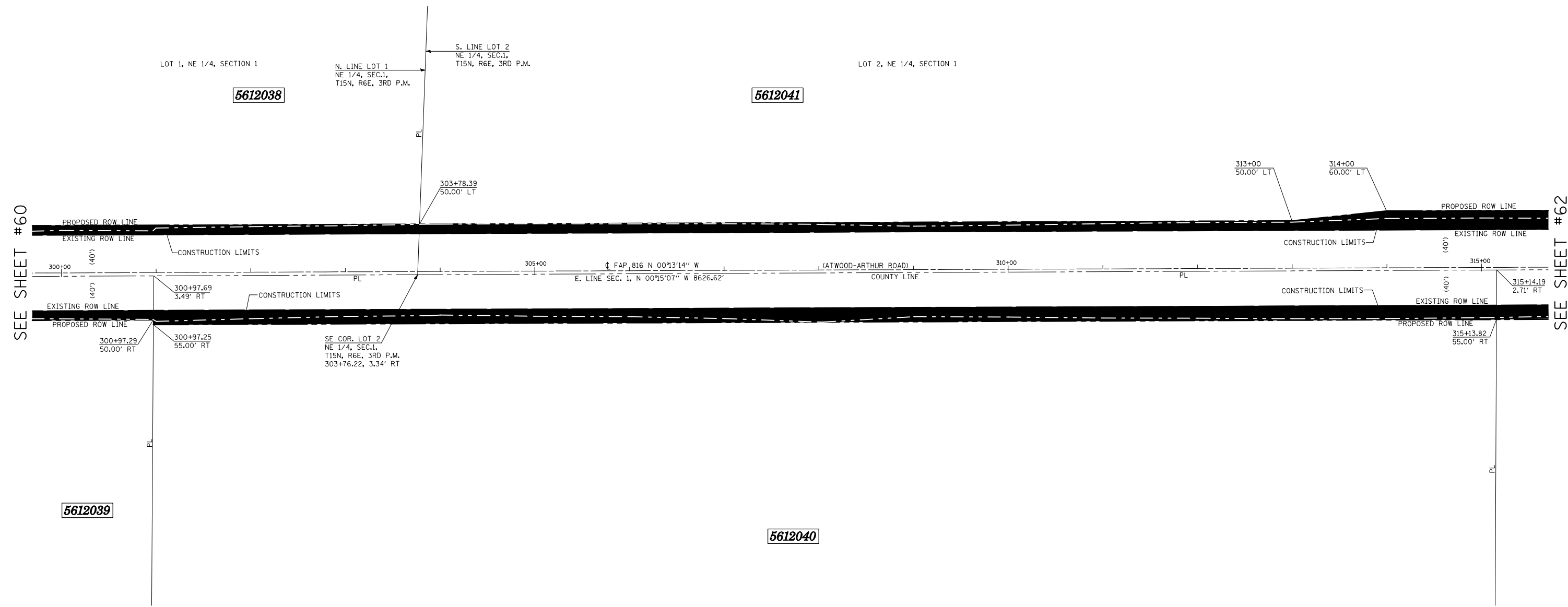
ILLINOIS DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY PLAN
 ROUTE FAP 816 (ATWOOD-ARTHUR ROAD)
 SECTION 6RS-1 & (6BR)BR
 COUNTY MOULTRIE & DOUGLAS
 JOB NO. R-95-061-02
 SECTION 1, T.15N., R.6E., 3RD P.M.
 SECTION 6, T.15N., R.7E., 3RD P.M.
 STA. 285+00 STA. 300+00
 DRAWN TFG
 SCALE: 1"= 50'

CHECKED PDN/BRM

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	BRS-1 & (6B)RBR	DOUGLAS	176	61
STA. 300+00		TO STA. 315+00		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 90711				

ROW SHEET 16 OF 18

N.E. 1/4, SEC. 1, T15N, R6E, 3RD. P.M., MOULTRIE COUNTY



SEE SHEET #60

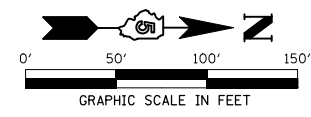
SEE SHEET #62

N.W. FR. 1/4, SEC. 6, T15N, R7E, 3RD. P.M., DOUGLAS COUNTY

* AREA OF REMAINING IS AN ESTIMATED AREA

PARCEL NO.	OWNER	AREA OF WHOLE	AREA TAKEN	PREV. DED OR USE	AREA * REMAINING	TEMPORARY EASEMENT	EASEMENT PURPOSE
5612040	LEOTA DUKEMAN TRUST, et al	78.32 AC.±	1.688 AC.±	1.191 AC.±	76.63 AC.±		
5612041	RICHARD E. & FLOUSSIE B. TAYLOR	107.5 AC.±	3.343 AC.±	2.679 AC.±	104.2 AC.±		

- LEGEND**
- ⊗ R.O.W. MARKER FOUND
 - - - EXISTING FENCE
 - () RECORD DATA
 - IRON PIN/PIPE FOUND
 - SET COTTON SPINDLE
 - PROPERTY LINE
 - ▲ SET PK NAIL
 - ▲ FOUND PK NAIL
 - ⊕ FOUND CROSS IN CONCRETE
 - FOUND STONE OR VAULT
- BEARINGS BASED ON IL STATE PLANE COORDINATES, NAD 83, EAST ZONE.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY PLAN
 ROUTE FAP 816 (ATWOOD-ARTHUR ROAD)
 SECTION 6RS-1 & (6B)RBR
 COUNTY MOULTRIE & DOUGLAS
 JOB NO. R-95-061-02
 SECTION 1, T.15N., R.6E., 3RD P.M.
 SECTION 6, T.15N., R.7E., 3RD P.M.
 STA. 300+00 STA. 315+00
 DRAWN TFG
 SCALE: 1"= 50'

CHECKED PDN/BRM

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	BRS-1 & (6BR)BR	DOUGLAS	176	62
STA. 315+00		TO STA. 330+00		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 90711				

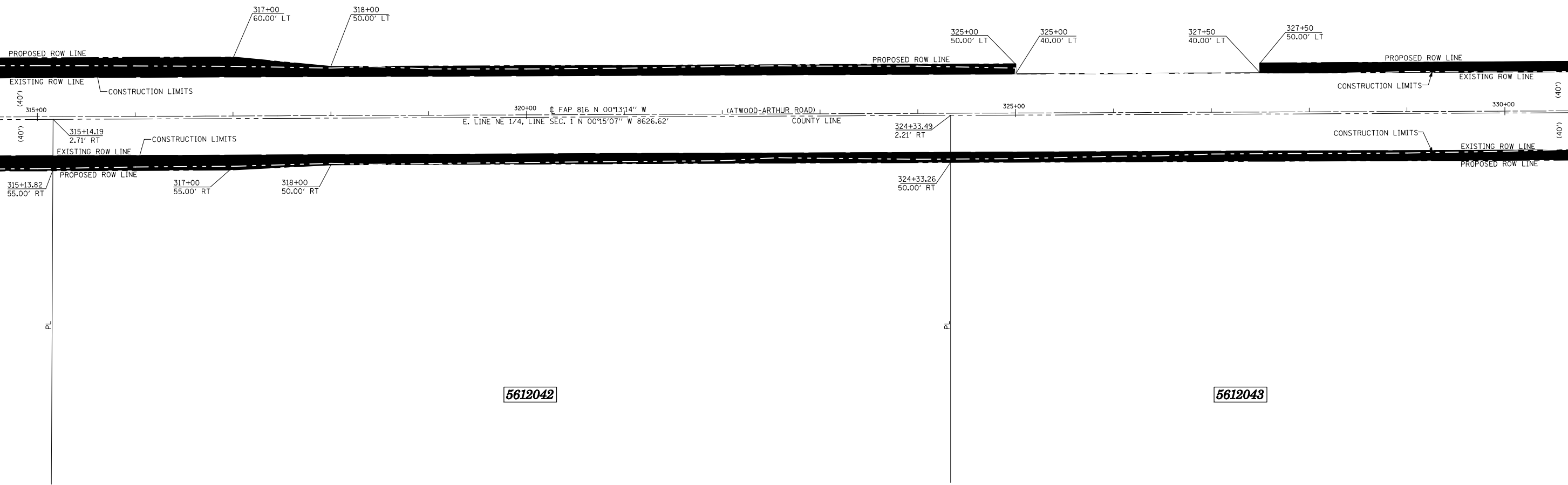
ROW SHEET 16 OF 18

NE 1/4, SEC. 1, T15N, R6E, 3RD. P.M., MOULTRIE COUNTY

5612041

SEE SHEET #61

SEE SHEET #63



5612042

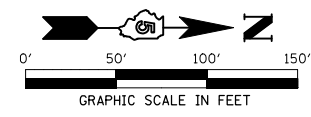
5612043

NW FR. 1/4, SEC. 6, T15N, R7E, 3RD. P.M., DOUGLAS COUNTY

* AREA OF REMAINING IS AN ESTIMATED AREA

PARCEL NO.	OWNER	AREA OF WHOLE	AREA TAKEN	PREV. DED OR USE	AREA * REMAINING	TEMPORARY EASEMENT	EASEMENT PURPOSE
5612041	RICHARD E. & FLOUSSIE B. TAYLOR	107.5 AC.±	3.343 AC.±	2.679 AC.±	104.2 AC.±		
5612042	LINDA LEE BARNETT	50 AC.±	1.030 AC.±	0.792 AC.±	49.0 AC.±		
5612043	JAMES PATE, et al	60 AC.±	0.869 AC.±	0.688 AC.±	59.1 AC.±		

- LEGEND**
- ⊗ R.O.W. MARKER FOUND
 - - - EXISTING FENCE
 - () RECORD DATA
 - IRON PIN/PIPE FOUND
 - SET COTTON SPINDLE
 - PROPERTY LINE
 - ▲ SET PK NAIL
 - △ FOUND PK NAIL
 - ⊕ FOUND CROSS IN CONCRETE
 - FOUND STONE OR VAULT
- BEARINGS BASED ON IL STATE PLANE COORDINATES, NAD 83, EAST ZONE.



REVISIONS	
NAME	DATE

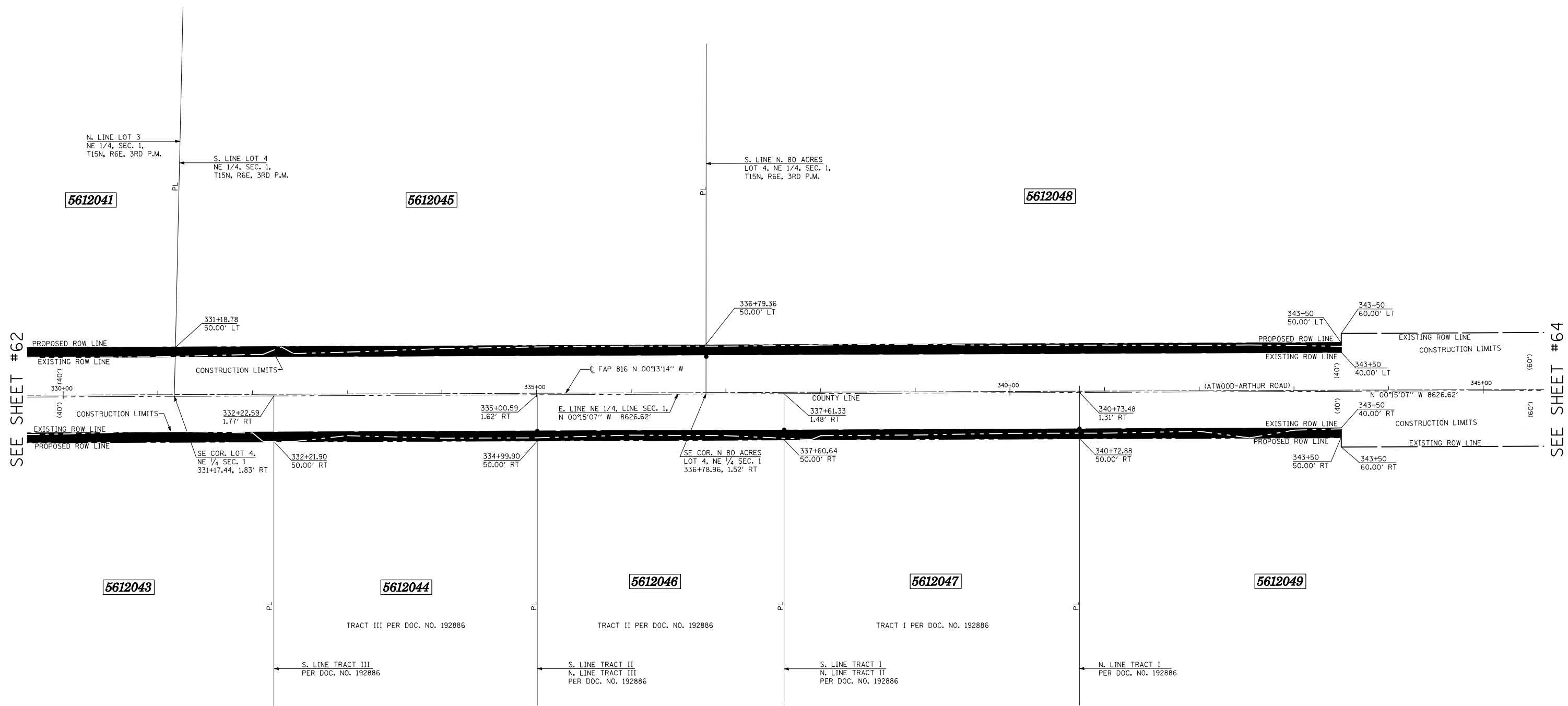
ILLINOIS DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY PLAN
 ROUTE FAP 816 (ATWOOD-ARTHUR ROAD)
 SECTION 6RS-1 & (6BR)BR
 COUNTY MOULTRIE & DOUGLAS
 JOB NO. R-95-061-02
 SECTION 1, T.15N., R.6E., 3RD P.M.
 SECTION 6, T.15N., R.7E., 3RD P.M.
 STA. 315+00 STA. 330+00
 DRAWN TFG
 SCALE: 1"= 50'

CHECKED PDN/BRM

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	BRS-1 & (6B)RBR	DOUGLAS	176	63
STA. 330+00		TO STA. 345+00		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 90711				

N.E. 1/4, SEC. 1, T15N, R6E, 3RD. P.M., MOULTRIE COUNTY

ROW SHEET 17 OF 18

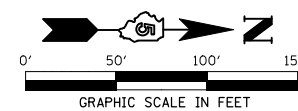


N.W. FR. 1/4, SEC. 6, T15N, R7E, 3RD. P.M., DOUGLAS COUNTY

* AREA OF REMAINING IS AN ESTIMATED AREA

- LEGEND**
- ⊗ R.O.W. MARKER FOUND
 - - - EXISTING FENCE
 - () RECORD DATA
 - IRON PIN/PIPE FOUND
 - SET COTTON SPINDLE
 - PROPERTY LINE
 - ▲ SET PK NAIL
 - ▲ FOUND PK NAIL
 - ⊕ FOUND CROSS IN CONCRETE
 - FOUND STONE OR VAULT
- BEARINGS BASED ON IL STATE PLANE COORDINATES, NAD 83, EAST ZONE.

PARCEL NO.	OWNER	AREA OF WHOLE	AREA TAKEN	PREV. DED OR USE	AREA * REMAINING	TEMPORARY EASEMENT	EASEMENT PURPOSE
5612044	MILDRED IRENE McMULLEN	19.50 AC.±	0.384 AC.±	0.320 AC.±	19.12 AC.±		
5612045	DORIS NADINE TAYLOR	44.94 AC.±	0.666 AC.±	0.537 AC.±	44.27 AC.±		
5612046	DORIS NADINE TAYLOR	17.00 AC.±	0.349 AC.±	0.289 AC.±	16.65 AC.±		
5612047	RICHARD EUGENE TAYLOR	16.894 AC.±	0.404 AC.±	0.332 AC.±	16.49 AC.±		
5612048	HUGH R. RANKIN	80.0 AC.±	1.815 AC.±	1.661 AC.±	78.185 AC.±		
5612049	MARGARET DUCEY & ISABEL DUCEY	41.29 AC.±	1.299 AC.±	1.235 AC.±	39.99 AC.±		



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY PLAN
 ROUTE FAP 816 (ATWOOD-ARTHUR ROAD)
 SECTION 6RS-1 & (6B)RBR
 COUNTY MOULTRIE & DOUGLAS
 JOB NO. R-95-061-02
 SECTION 1, T.15N., R.6E., 3RD P.M.
 SECTION 6, T.15N., R.7E., 3RD P.M.
 STA. 330+00 STA. 345+00
 DRAWN TFG
 SCALE: 1"= 50'
 CHECKED PDN/BRM

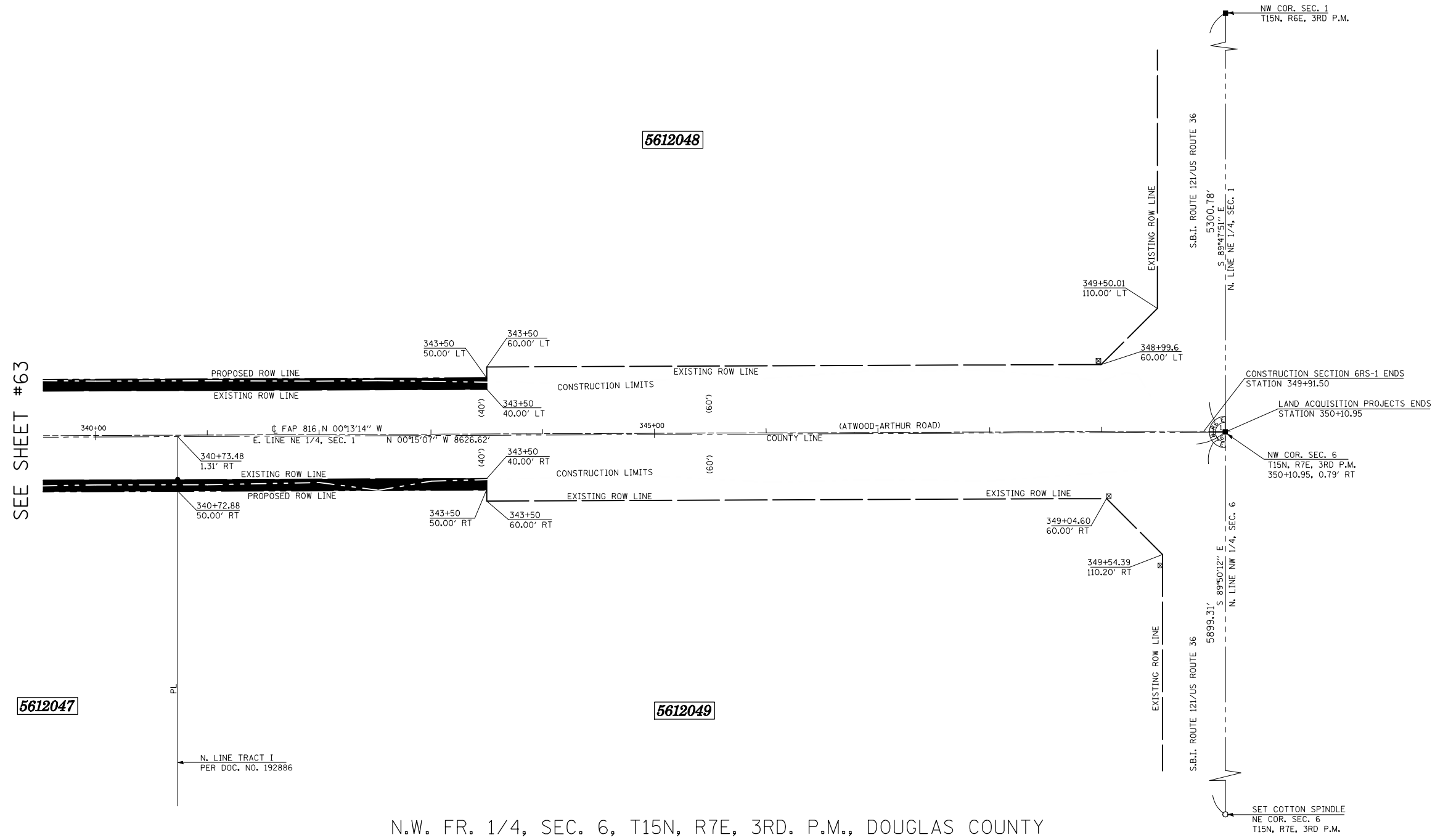
SEE SHEET #62

SEE SHEET #64

FAP RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	BRS-1 & (6BR)BR	DOUGLAS	176	64
STA. 340+00		TO STA. 350+10.95		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 90711				

N.E. 1/4, SEC. 1, T15N, R6E, 3RD. P.M., MOULTRIE COUNTY

ROW SHEET 18 OF 18



SEE SHEET #63

5612047

5612048

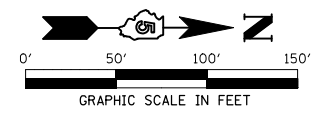
5612049

N.W. FR. 1/4, SEC. 6, T15N, R7E, 3RD. P.M., DOUGLAS COUNTY

* AREA OF REMAINING IS AN ESTIMATED AREA

- LEGEND**
- ⊗ R.O.W. MARKER FOUND
 - - - EXISTING FENCE
 - () RECORD DATA
 - IRON PIN/PIPE FOUND
 - SET COTTON SPINDLE
 - PROPERTY LINE
 - ▲ SET PK NAIL
 - ▲ FOUND PK NAIL
 - ⊕ FOUND CROSS IN CONCRETE
 - FOUND STONE OR VAULT
- BEARINGS BASED ON IL STATE PLANE COORDINATES, NAD 83, EAST ZONE.

PARCEL NO.	OWNER	AREA OF WHOLE	AREA TAKEN	PREV. DED OR USE	AREA * REMAINING	TEMPORARY EASEMENT	EASEMENT PURPOSE
5612048	HUGH R. RANKIN	80.0 AC.±	1.815 AC.±	1.661 AC.±	78.185 AC.±		
5612049	MARGARET DUCEY & ISABEL DUCEY	41.29 AC.±	1.299 AC.±	1.235 AC.±	39.99 AC.±		

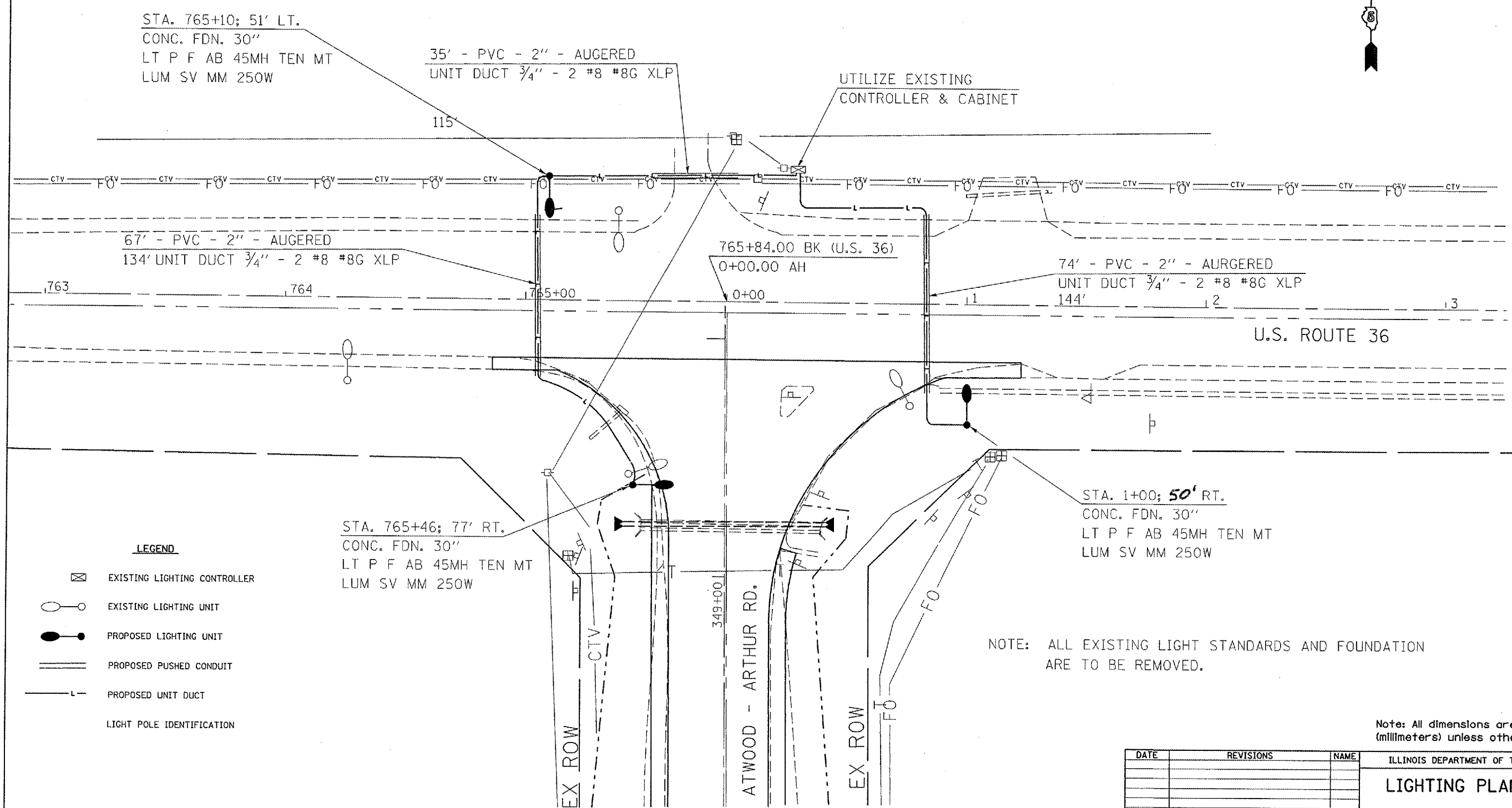


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
RIGHT OF WAY PLAN
 ROUTE FAP 816 (ATWOOD-ARTHUR ROAD)
 SECTION 6RS-1 & (6BR)BR
 COUNTY MOULTRIE & DOUGLAS
 JOB NO. R-95-061-02
 SECTION 1, T.15N., R.6E., 3RD P.M.
 SECTION 6, T.15N., R.7E., 3RD P.M.
 STA. 340+00 STA. 350+10.95
 DRAWN TFG
 SCALE: 1"= 50'
 CHECKED PDN/BRM

F.A.P. 816 (ATWOOD - ARTHUR RD.) & U.S. 36 LIGHTING MODERNIZATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6RS-1&6BRIBR	DOUGLAS	176	65
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 90711				



LEGEND

- EXISTING LIGHTING CONTROLLER
- EXISTING LIGHTING UNIT
- PROPOSED LIGHTING UNIT
- PROPOSED PUSHED CONDUIT
- PROPOSED UNIT DUCT
- LIGHT POLE IDENTIFICATION

NOTE: ALL EXISTING LIGHT STANDARDS AND FOUNDATION ARE TO BE REMOVED.

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

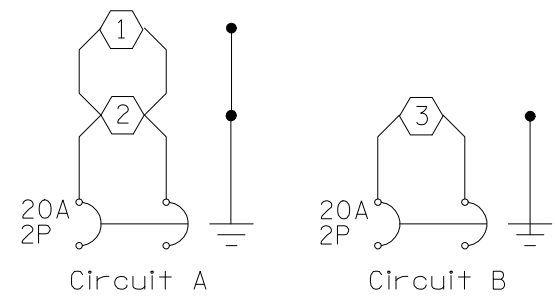
DATE	REVISIONS	NAME

ILLINOIS DEPARTMENT OF TRANSPORTATION
LIGHTING PLAN SHEET

PLOT DATE = 8/21/2008
 FILE NAME = c:\peters\jens\2007\816\13 submittal\atwood_816_lighting.dgn
 USER = jens
 USER NMIC = jens

Rev

CIRCUIT DETAIL



All wire size is #8 copper

BILL OF MATERIALS

U.S. ROUTE 36 & ATWOOD - ARTHUR RD. LIGHTING

ITEM	UNIT	QUANTITY
TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1.0
CONDUIT, AUGERED 2" DIA., PVC	FOOT	176.0
UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA., POLYETHYLENE	FOOT	434.0
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	258.0
LUMINAIRE, SODIUM VAPOR, MULTI-MOUNT, 250 WATT	EACH	3.0
LIGHT POLE, FIBERGLASS, 45 FT. M.H., 12 FT. TENON MOUNT	EACH	3.0
LIGHT POLE FOUNDATION, 30" DIAMETER	FOOT	18.0
BREAKAWAY DEVICE, COUPLING, WITH STAINLESS STEEL SCREEN	EACH	12.0
REMOVAL OF EXISTING LIGHTING UNIT, NO SALVAGE	EACH	8.0

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

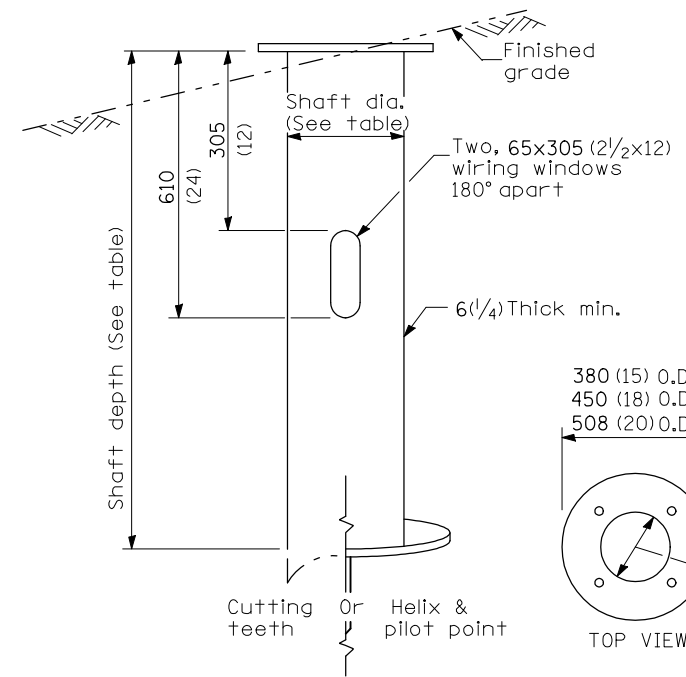
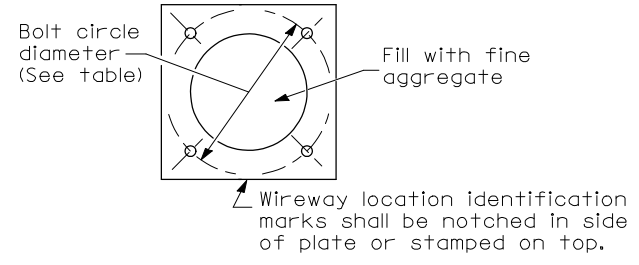
DATE	REVISIONS	NAME

ILLINOIS DEPARTMENT OF TRANSPORTATION

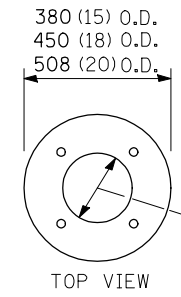
BILL OF MATERIALS

LIGHT POLE MOUNTING HEIGHT	BOLT CIRCLE DIAMETER	STEEL FOUNDATION			CONCRETE FOUNDATION		
		SHAFT DIAMETER	SHAFT DEPTH	TOP PLATE (min)	SHAFT DIAMETER	SHAFT DEPTH	ANCHOR ROD LENGTH ①
< 9.1 m (30')	292 (11.5)	220 (8 5/8)	1.83 m (6')	300 x 300 x 25 12 x 12 x 1	610 (24)	1.52 m (5'-0")	1.45 m (4'-9")
9.4 m - 10.7 m (31'-35')	292 (11.5)	220 (8 5/8)	1.83 m (6')	300 x 300 x 25 12 x 12 x 1	610 (24)	1.67 m (5'-6")	1.60 m (5'-3")
10.9 m - 12.2 m (36'-40')	381 (15) ③	220 (8 5/8)	1.83 m (6') ②	375 x 375 x 31 15 x 15 x 1 1/4	762 (30)	1.83 m (6'-0")	1.75 m (5'-9")
12.5 m - 13.7 m (41'-45')	381 (15) ③	220 (8 5/8)	1.83 m (6') ②	375 x 375 x 31 15 x 15 x 1 1/4	762 (30)	1.98 m (6'-6")	1.90 m (6'-3")
14.0 m - 15.2 m (46'-50')	381 (15) ③	220 (8 5/8)	2.44 m (8')	375 x 375 x 31 15 x 15 x 1 1/4	762 (30)	2.13m (7'-0")	2.00 m (6'-9")

- ① Length does not include 100(4)hook
- ② 220 mm x 2.44 m (8 5/8" x 8'-0") for Twin luminaires
- ③ Bolt circle diam. shall be 430 (17) when a TB3-17 transformer base is used



STEEL FOUNDATION

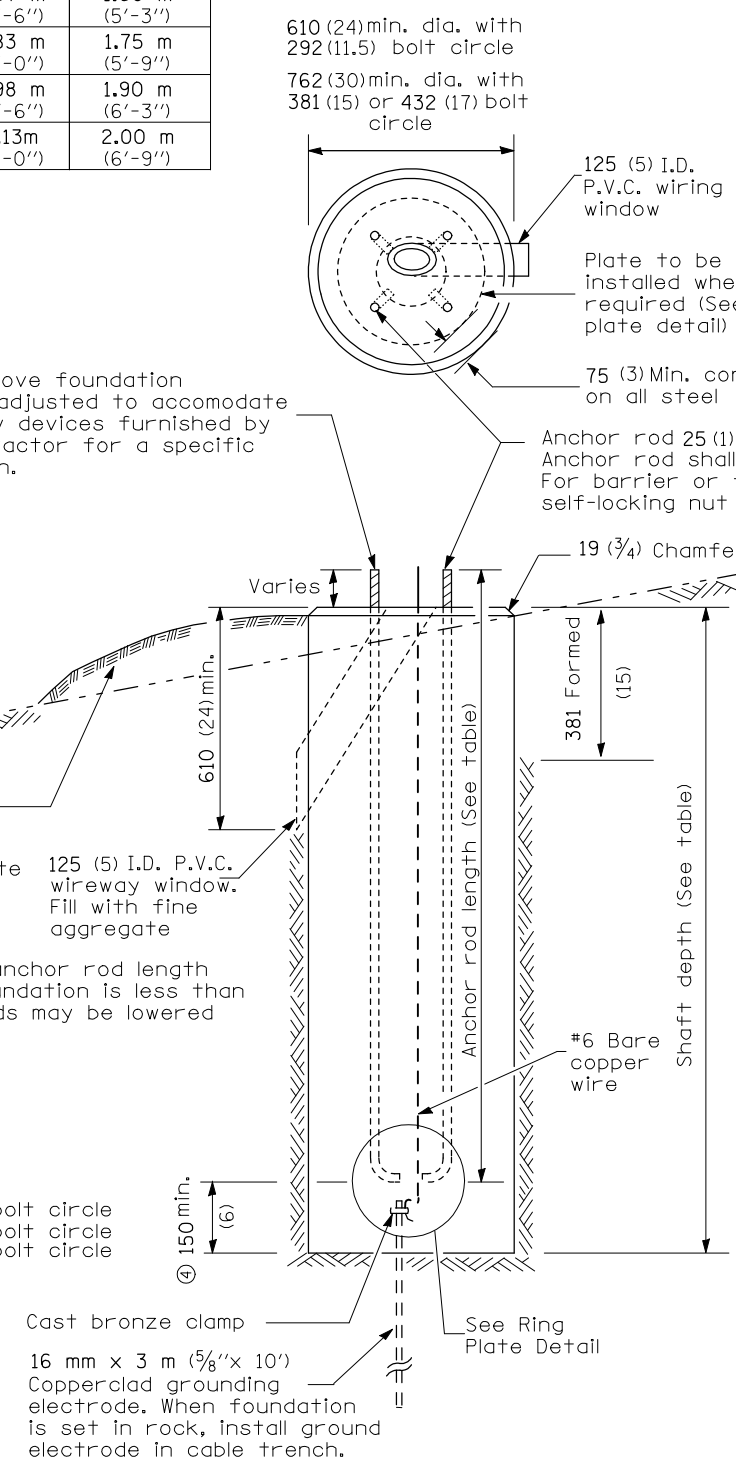


RING PLATE DETAIL
(When rock is encountered and foundation is shallower)

Length above foundation shall be adjusted to accommodate breakaway devices furnished by the contractor for a specific installation.

Use dirt removed from foundation to meet 1.52m (5 ft.) chord fill around foundation top. Grade dirt level with bottom of concrete chamfer.

- ④ If the required anchor rod length above top of foundation is less than 75 (3), anchor rods may be lowered below 150 (6).

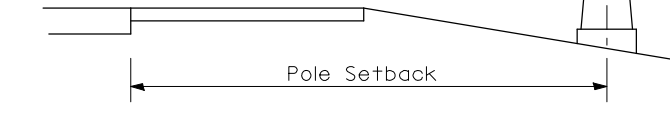


CONCRETE FOUNDATION

Pole Foundation Setback:

For horizontal mounted luminaires, setback shall be a minimum of 6.1 m (20') from edge of pavement.

For vertical mount luminaires, setback shall be a minimum of 9 m (30') from edge of pavement. Poles shall be located 1.5 m (5') behind guardrail or other protective barriers, or as directed by the Engineer.



- Notes:**
- Wireway may be on front, back or side of foundation as required by the trenching. Place door of transformer base on wireway side to minimize the number of unit duct bends.
 - Top of schedule 40 125 (5) I.D. PVC wiring window, shall be flush with the top of foundation for drainage.
 - All foundations are designed to be located on slopes not exceeding 2:1 where soils have an unconfined compressive strength of at least 1.0 TSF. The contractor shall verify the soil strength during drilling for concrete foundations or by monitoring installation resistance on steel foundations and notify the engineer if other conditions are encountered.
 - Anchor rod shall be increased to 31 (1 1/4) diameter for 15.24 (50') mounting height or above.
 - TB3-17 transformer base is not to be used on metal foundation

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

DATE	REVISIONS	NAME

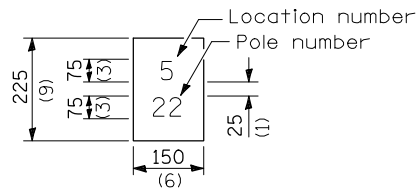
ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION

LGTO07-836

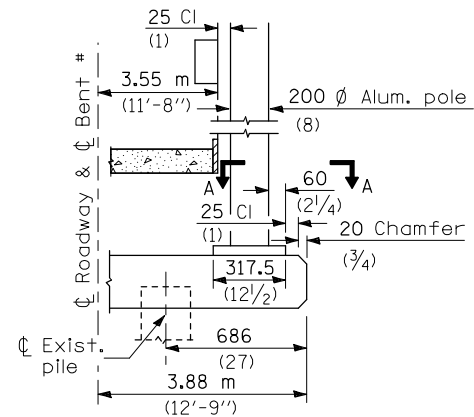
"Install and orient arm bracket over pole tenon and firmly hand tighten the two set screws. Use third hole in arm bracket as a guide to drill a 8.3 (5/16) diameter hole through tenon. Install and tighten self-tapping screw. Tighten set screws an additional (1/4 to 3/8) turn with hex key (not provided). Install locknuts on set screws if threaded projection allows."

Pole shall meet AASHTO Standard Specifications for 128.72 km (80 mph) wind loading and 40.82 kg (90 lb.), .37 m² (4.0 sq. ft.) E.P.A. luminaire.

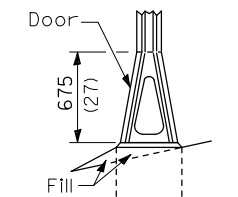


The contractor shall furnish and install a light pole identification of each new light pole, as shown above, incidental to the respective light pole pay item. The numerals shall be 75 (3) series "D", black, screened on silver-white type B pressure sensitive reflective sheeting conforming to the requirements of section T602.01 of the Standard Specifications for Traffic Control Items. The numerals shall conform to the FHWA "Standard Alphabets for Highway Signs".

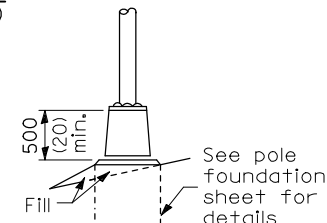
The light pole identification shall be applied to sign base material as specified in section 1085.05 of the Standard Specifications, approximately 180 (7) above the adjacent pavement grade visible to approaching traffic in accordance with Highway Standard 2319.



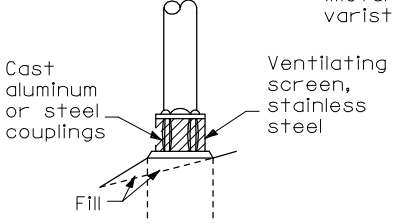
BENT #
(Looking)



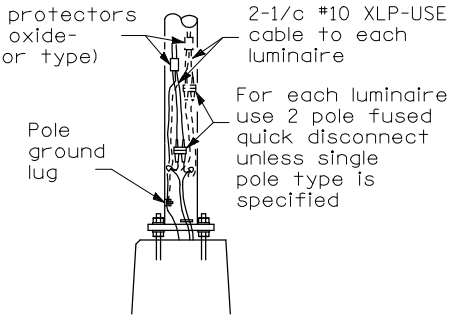
STAINLESS STEEL FLAIR BASE



TRANSFORMER BASE



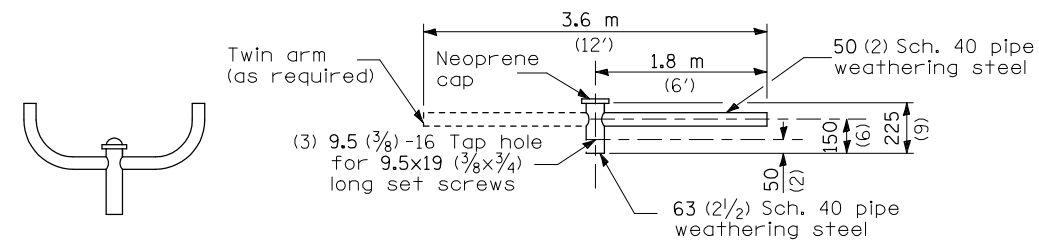
BREAKAWAY COUPLING



ANCHOR

METAL OR **CONCRETE**

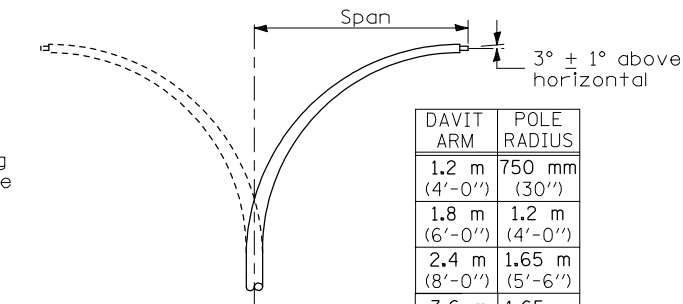
Details for underground distribution if required



TWIN TENON

TENON MOUNT BRACKET ARM

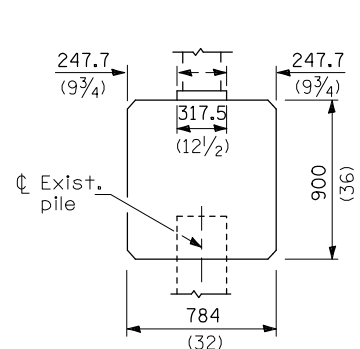
NOTE: Single or twin arm assembly shall be tilted 3° above horizontal.



DAVIT ARM

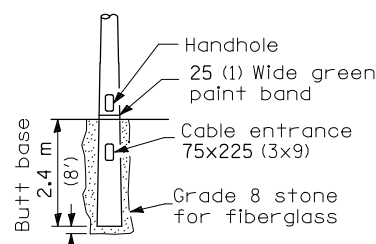
DAVIT ARM-TWIN

DAVIT ARM	POLE RADIUS
1.2 m (4'-0")	750 mm (30")
1.8 m (6'-0")	1.2 m (4'-0")
2.4 m (8'-0")	1.65 m (5'-6")
3.6 m (12'-0")	1.65 m (5'-6")

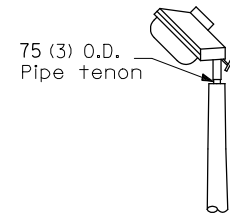


BRIDGE PIER MOUNT

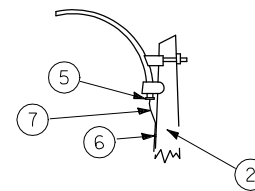
SECTION A-A



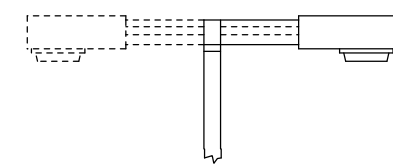
BUTT BASE



TENON

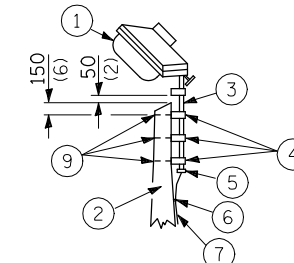


MAST ARM



SHORT BRACKET

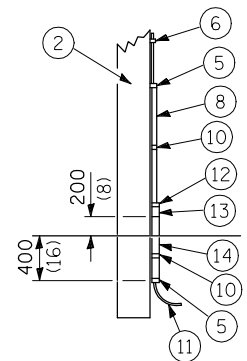
SHORT BRACKET - TWIN



TENON

- ① Luminaire
- ② Wood pole, class 3 or better
- ③ 63 (2 1/2) Galv. steel conduit
- ④ Single offset pole band
- ⑤ Conduit bushing
- ⑥ Cable clamps on 600 (24) centers
- ⑦ 2/c #12 Type use cable
- ⑧ 25 (1) Galv. steel conduit 3.0 m (10') in length

- ⑨ 16 (5/8) Ø hot dipped galvanized bolt with flat washer & locknut (3 req'd)
- ⑩ Conduit clamps on 900 (36) centers
- ⑪ Unit duct
- ⑫ Threaded reducer
- ⑬ "C" Condulet, threaded
- ⑭ 40 (1 1/2) Galv. steel conduit for 1 unit duct or 75 (3) galv. steel conduit for 2 or 3 unit ducts.



POLE, WOOD

POLE LENGTH	DEPTH IN GROUND
19.8 m (65')	3.6 m (12')
18.0 m (60')	3.0 m (10')
16.8 m (55')	2.7 m (9')
16.0 m (50')	2.4 m (8')
13.7 m (45')	2.1 m (7')
12.0 m (40')	2.0 m (6.5')
10.7 m (35')	1.8 m (6')
9.0 m (30')	1.7 m (5.5')

All dimensions are in millimeters (inches) unless otherwise shown.

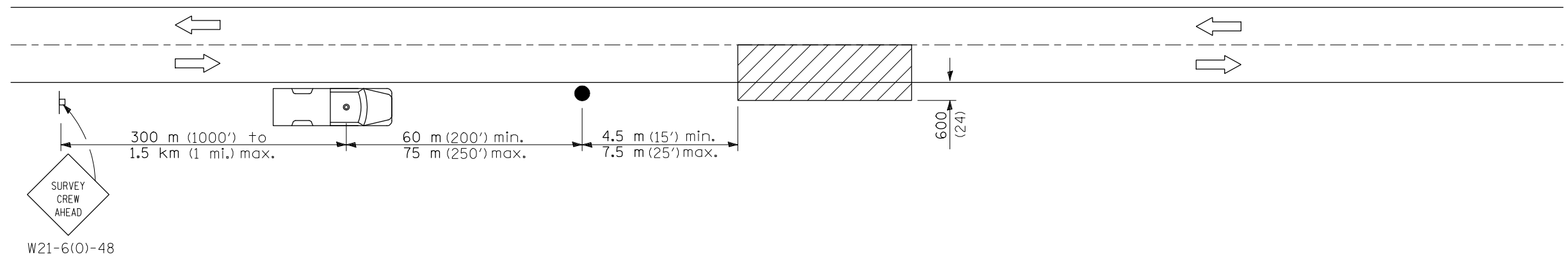
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DATE	REVISIONS	NAME



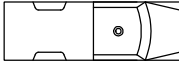

ILLINOIS DEPARTMENT OF TRANSPORTATION

POLE STANDARDS
LGTO08.M32

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
B16	6RS-1&(6BR)BR	DOUGLAS	176	69
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 90711				



SYMBOLS

-  Work area
-  Sign on portable or permanent support
-  Truck with flashing amber light and dual emergency flashers
-  Flagger with traffic control sign

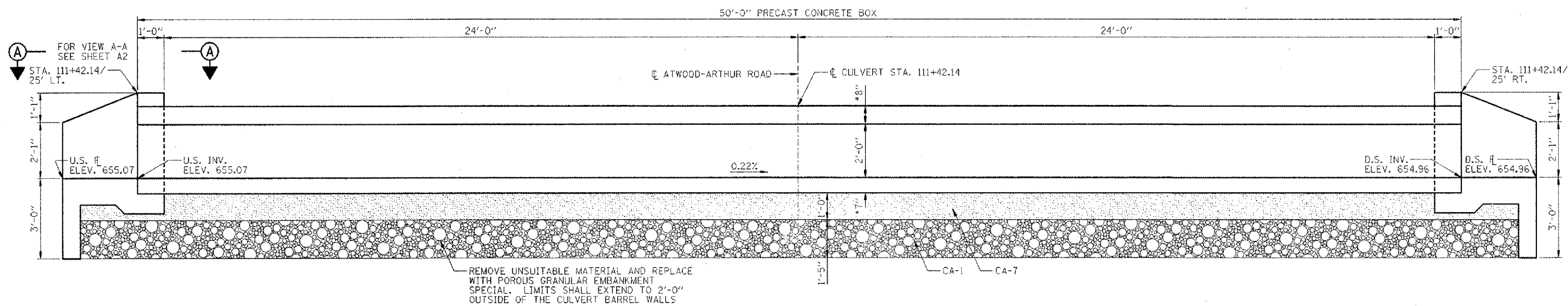
TYPICAL APPLICATIONS
Utility operations

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

DATE	REVISIONS	NAME	ILLINOIS DEPARTMENT OF TRANSPORTATION
			LIGHTING PLAN SHEET

PLOT DATE = 8/21/2008
FILE NAME = c:\projects\4506695\2007_08_13\submit\al102846_lighting.dgn
PLOT SCALE = 4:2,362" / IN.
USER NAME = kejarb

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	GRS-1 & (6BR)R	DOUGLAS	176	71
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 90711			SHEET NO. A1	
OF 3 SHEETS				



LONGITUDINAL SECTION

(LOOKING NORTH)
 * CONFIRM SLAB THICKNESS WITH PRECASTER

GENERAL NOTES:

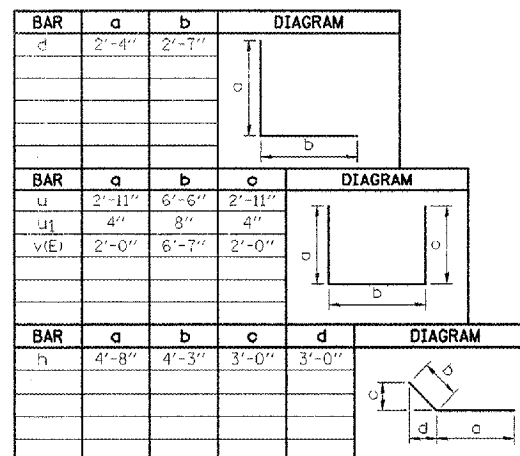
- CAST-IN-PLACE CONCRETE EXPOSED EDGES SHALL BE BEVELED 3/4 IN.
- CLASS SI CONCRETE SHALL BE USED THROUGHOUT (CONCRETE STRENGTH, f'c=3500 psi @ 28 DAYS).
- REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 Gr 60 (IL MODIFIED). SEE SPECIAL PROVISIONS.
- REINFORCEMENT BARS DENOTED (E) SHALL BE EPOXY COATED.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DIVERT THE STREAM FLOW DURING CONSTRUCTION IN ORDER TO KEEP THE CONSTRUCTION AREAS FREE OF WATER. THE METHOD OF WATER DIVERSION SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER AND THE COST SHALL BE INCLUDED WITH THE COST OF "PRECAST CONCRETE BOX CULVERTS, 5'x2' (M273)".
- SEE SHEET A3 FOR BORING DATA.
- STRUCTURAL SEAL IS FOR CAST-IN-PLACE PORTION OF STRUCTURE ONLY.
- THE PRECAST CONCRETE CULVERT SECTIONS SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH AASHTO M273 (ASTM C850).
- FOR BACKFILLING AND EMBANKMENT, SEE STANDARD SPECIFICATIONS.
- END OF PRECAST SECTION SHALL NOT HAVE A BELL OR SPIGOT.
- THE APRON END SECTIONS SHOWN SHALL BE CAST-IN-PLACE.
- THE PAY ITEM "REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL" SHALL INCLUDE THE EXCAVATION OF UNSUITABLE MATERIAL FOR A DEPTH TO 2'-5" BELOW THE STRUCTURE FOR A WIDTH OF APPROXIMATELY 10.0' WITHIN THE LIMITS OF THE CUTOFF WALLS AS SHOWN AND WITHIN THE LIMITS OF THE PROPOSED CAST-IN-PLACE APRON AS SHOWN. THE ACTUAL AMOUNT SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- THE PAY ITEM "POROUS GRANULAR EMBANKMENT SPECIAL" SHALL INCLUDE THE PLACEMENT OF THE CA-1 AND CA-7 AS SHOWN IN THE LONGITUDINAL SECTION. THE WIDTH FOR THE "POROUS GRANULAR EMBANKMENT SPECIAL" SHALL BE APPROXIMATELY 10.0' WIDE UNDER THE CULVERT. THE "POROUS GRANULAR EMBANKMENT SPECIAL" SHALL BE WITHIN THE LIMITS OF THE TOE WALL AS SHOWN UNDER THE PROPOSED CAST-IN-PLACE APRON. THE ACTUAL AMOUNT SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- CONTRACTOR TO CONFIRM ALL PRECAST CULVERT DIMENSIONS WITH THE SUPPLIER BEFORE STARTING CONSTRUCTION.
- THE BILL OF MATERIAL SHOWN IS FOR INFORMATION ONLY. END SECTIONS WILL BE PAID FOR AS "BOX CULVERT END SECTIONS" PER EACH, SEE SCHEDULE OF QUANTITY SHEETS.

BILL OF MATERIAL

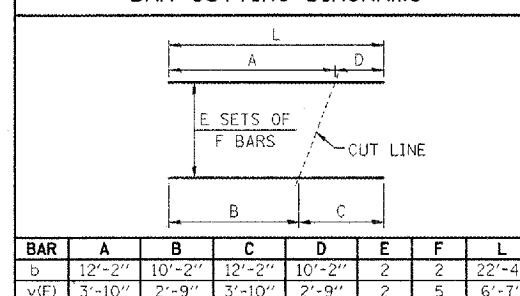
(NOTE: FOR 2 END SECTIONS)

BAR	NO.	SIZE	LENGTH	SHAPE
a	26	#5	2'-5"	—
b	4	#5	22'-4"	—
b1	6	#5	13'-3"	—
b2	6	#5	8'-10"	—
d	26	#5	4'-11"	—
h	4	#5	8'-11"	—
h1	12	#5	4'-3"	—
u	8	#5	12'-4"	—
u1	14	#5	1'-4"	—
v(E)	10	#5	10'-7"	L J
ITEM	UNIT	QUANTITY		
CONCRETE BOX CULVERTS	CU YD	6.0		
REINFORCEMENT BARS	POUND	640		
REINFORCEMENT BARS, EPOXY COATED	POUND	110		

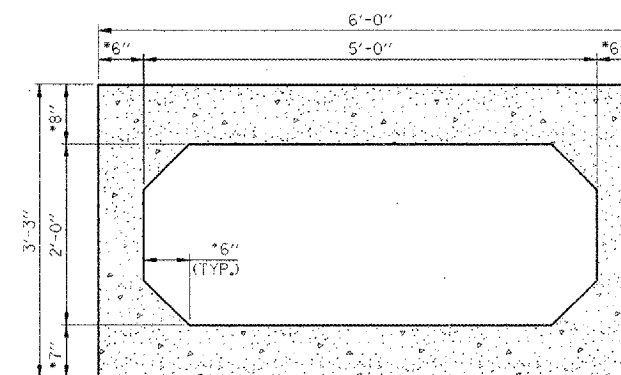
BAR BENDING DIAGRAMS



BAR CUTTING DIAGRAMS

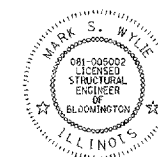


* CUT LENGTH OF v(E) BARS DOES NOT INCLUDE THE 2'-0" BENT LEGS.



SECTION THRU BARREL

* CONFIRM SLAB & WALL THICKNESS WITH PRECASTER



Mark S. Wylie Date 8/15/08

MARK S. WYLIE
 ILLINOIS STRUCTURAL ENGINEER
 NO. 081-005002
 Exp. Date 11/30/08

NOTE:

WORK THIS SHEET WITH SHEET A2.

REVISIONS	
NAME	DATE

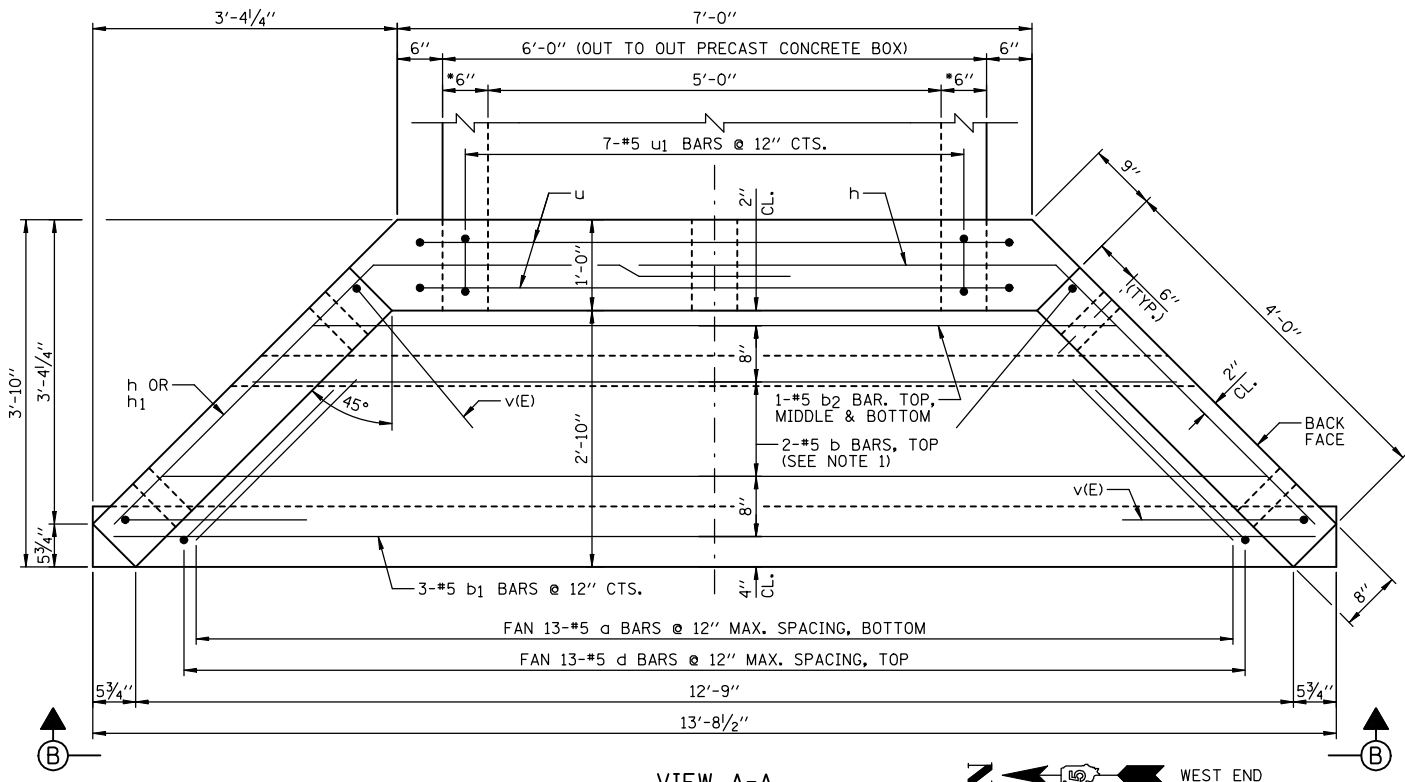
ILLINOIS DEPARTMENT OF TRANSPORTATION
CULVERT #1 REPLACEMENT
 (STA. 111+42.14)
 FAP ROUTE 816
 ATWOOD-ARTHUR RD
 SECTION 6RS-1 & (6BR)R
 DOUGLAS COUNTY

DATE: 11/24/03

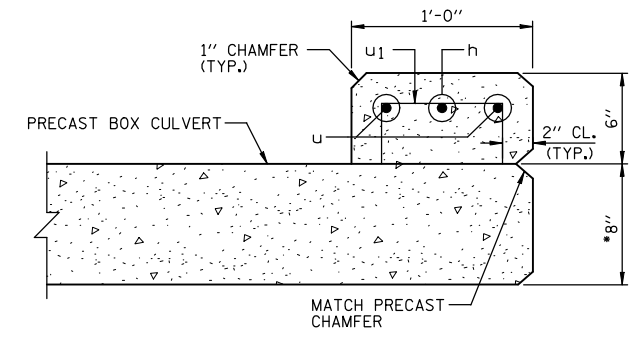
DRAWN BY: DJM
 CHECKED BY: MSW

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6RS-1 & (6BR)R	DOUGLAS	176	72
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 90711		SHEET NO. A2		

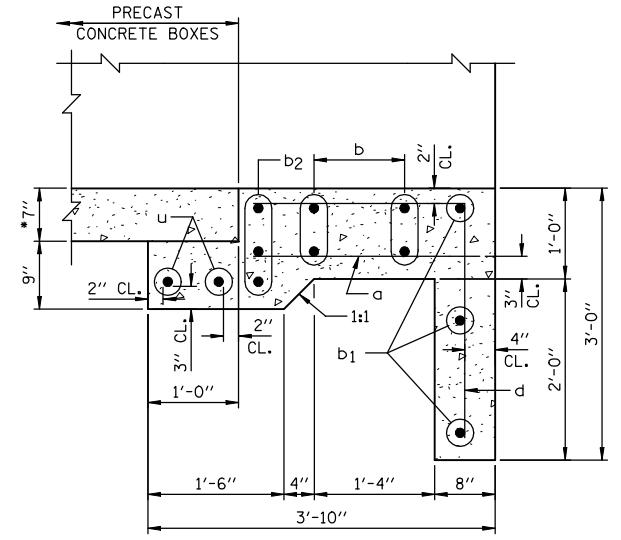
OF 3 SHEETS



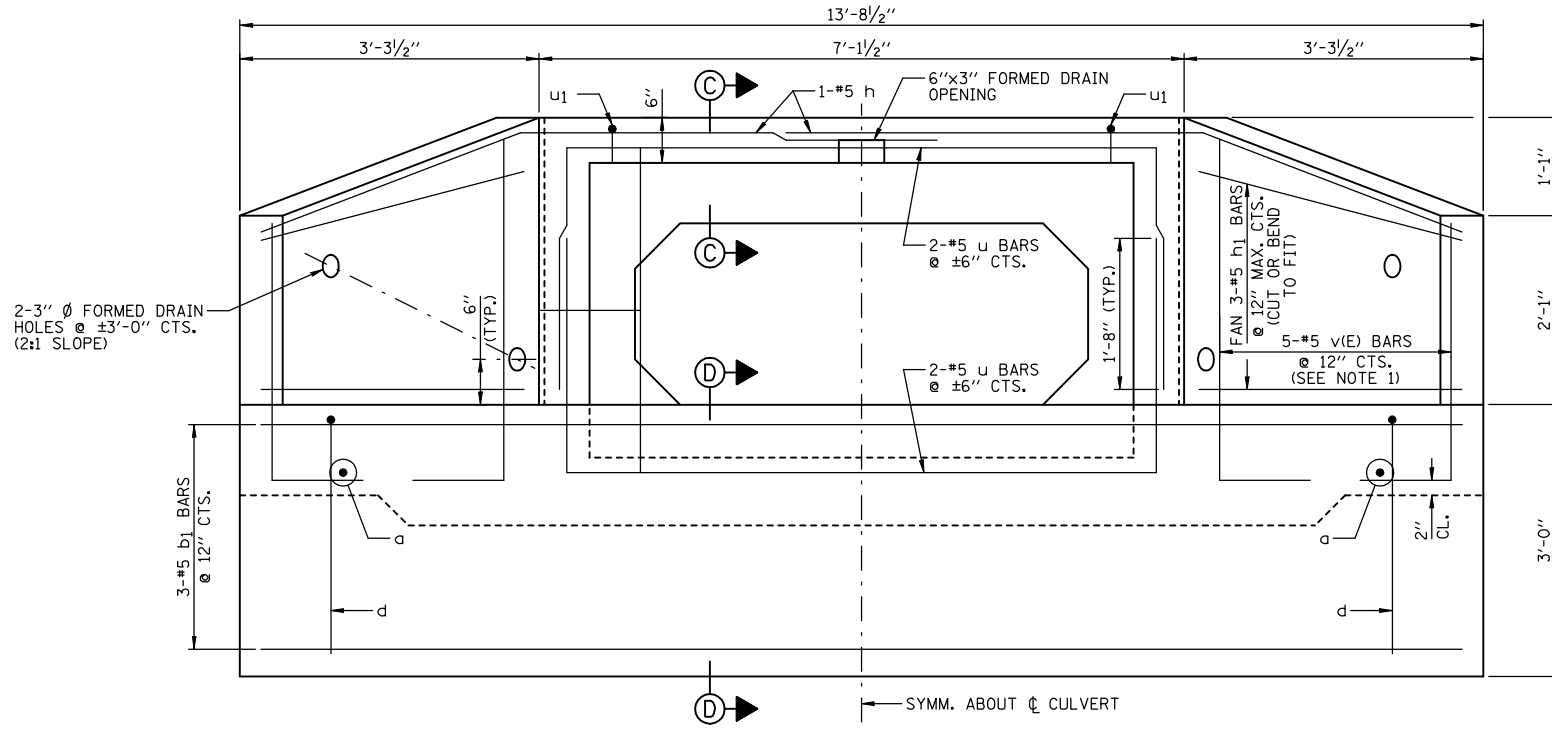
VIEW A-A
 • CONFIRM WALL THICKNESS WITH PRECASTER



SECTION C-C
 • CONFIRM SLAB THICKNESS WITH PRECASTER



SECTION D-D
 • CONFIRM SLAB THICKNESS WITH PRECASTER



END ELEVATION (VIEW B-B)

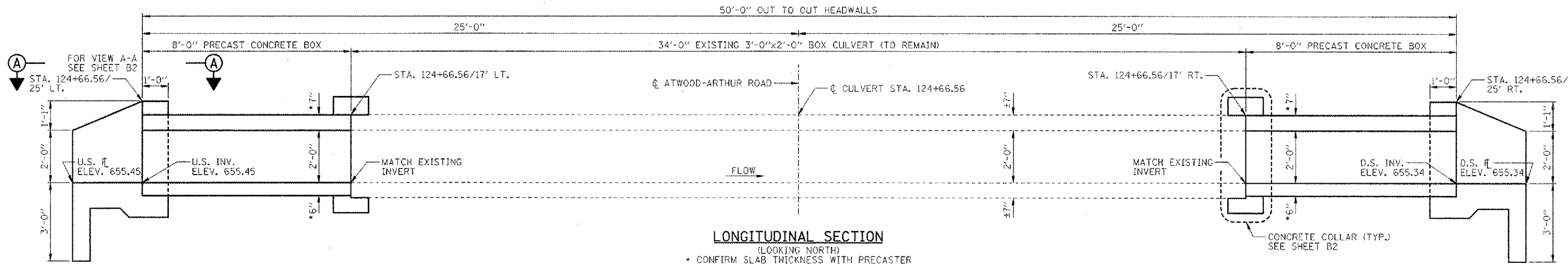
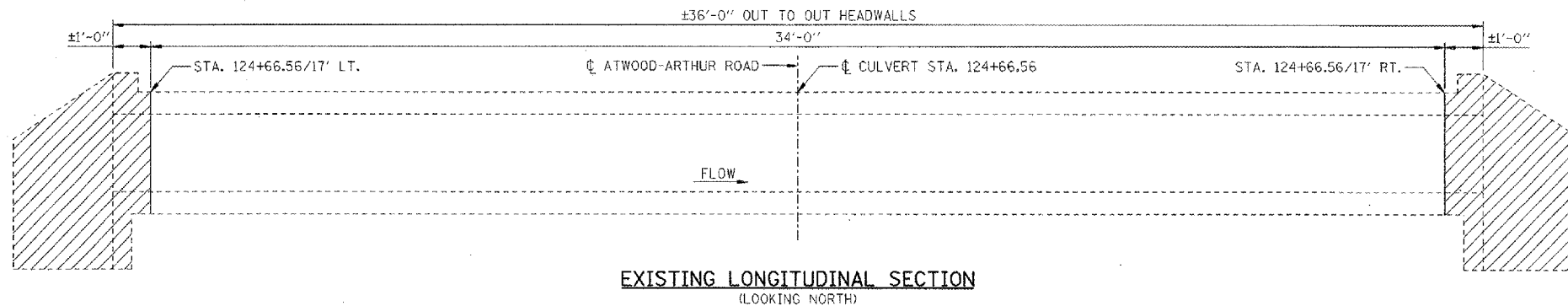
- NOTES:**
- 1.) ORDER b & v(E) BARS FULL LENGTH. CUT ACCORDING TO BAR CUTTING DIAGRAM ON SHEET A1. USE REMAINDER OF b BARS IN BOTTOM OF SLAB & REMAINDER OF v(E) BARS IN OPPOSITE WINGWALL.
 - 2.) MINIMUM BAR LAP: #5 = 1'-8"
 - 3.) WORK THIS SHEET WITH SHEET A1.
 - 4.) FOR LOCATION OF VIEW A-A SEE SHEET A1.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CULVERT #1 REPLACEMENT
 (STA. 111+42.14)
 FAP ROUTE 816
 ATWOOD-ARTHUR RD
 SECTION 6RS-1 & (6BR)R
 DOUGLAS COUNTY

DRAWN BY: DJM
 CHECKED BY: MSW
 DATE: 11/24/03

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6RS-1 & (6BR)R	DOUGLAS	176	74
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 90711		SHEET NO. B1		
OF 2 SHEETS				



GENERAL NOTES:

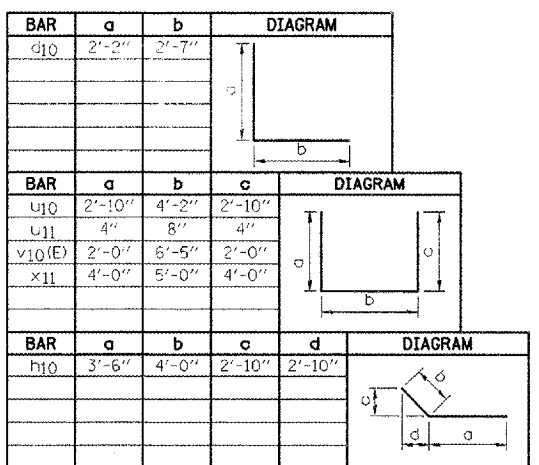
- CAST-IN-PLACE CONCRETE EXPOSED EDGES SHALL BE BEVELED 3/4" IN.
- CLASS SI CONCRETE SHALL BE USED THROUGHOUT (CONCRETE STRENGTH, f'c=3500 PSI @ 28 DAYS).
- REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 708 Gr 60 (IL MODIFIED). SEE SPECIAL PROVISIONS.
- REINFORCEMENT BARS DENOTED (E) SHALL BE EPOXY COATED.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DIVERT THE STREAM FLOW DURING CONSTRUCTION IN ORDER TO KEEP THE CONSTRUCTION AREAS FREE OF WATER. THE METHOD OF WATER DIVERSION SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER AND THE COST SHALL BE INCLUDED WITH THE COST OF "PRECAST CONCRETE BOX CULVERTS, 3'x2'".
- STRUCTURAL SEAL IS FOR CAST-IN-PLACE PORTION OF STRUCTURE ONLY.
- THE PRECAST CONCRETE CULVERT SECTIONS SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH AASHTO M259 (ASTM C789).
- FOR BACKFILLING AND EMBANKMENT, SEE STANDARD SPECIFICATIONS.
- END OF PRECAST SECTION SHALL NOT HAVE A BELL OR SPIGOT.
- THE APRON END SECTIONS SHOWN SHALL BE CAST-IN-PLACE.
- PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURE HAVE BEEN TAKEN FROM FIELD MEASUREMENTS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATION SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
- CONTRACTOR TO CONFIRM ALL PRECAST CULVERT DIMENSIONS WITH THE SUPPLIER BEFORE STARTING CONSTRUCTION.
- CONCRETE COLLAR QUANTITIES INCLUDED WITH CONCRETE BOX CULVERTS AND REINFORCEMENT BARS.
- COST TO REMOVE THE HATCHED PORTION OF THE EXISTING HEADWALLS AND WINGWALLS TO FACILITATE CONSTRUCTION OF COLLAR AND/OR PRECAST CONCRETE BOX CULVERTS IS INCLUDED WITH "PRECAST CONCRETE BOX CULVERTS 3'x2'".
- THE 36" Ø CMPS AT EACH END OF EXISTING CULVERT ARE TO BE REMOVED.
- THE BILL OF MATERIAL SHOWN IS FOR INFORMATION ONLY. END SECTIONS WILL BE PAID FOR AS "BOX CULVERT END SECTIONS" PER EACH. THE "CONCRETE COLLAR" WILL BE PAID FOR SEPARATELY, SEE SCHEDULE OF QUANTITY SHEETS.

BILL OF MATERIAL

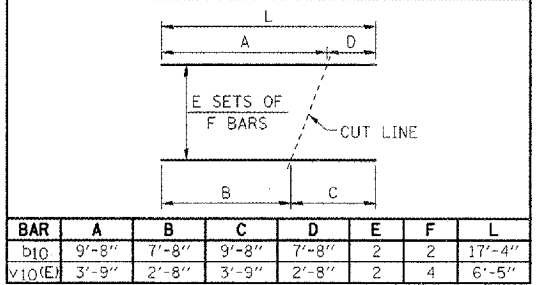
(NOTE: FOR 2 END SECTIONS & CONCRETE COLLAR)

BAR	NO.	SIZE	LENGTH	SHAPE
a10	22	#5	2'-3"	—
b10	4	#5	17'-4"	—
b11	6	#5	10'-7"	—
b12	6	#5	6'-6"	—
d10	22	#5	4'-9"	—
h10	4	#5	7'-6"	—
h11	12	#5	4'-0"	—
u10	8	#5	9'-10"	U
u11	8	#5	1'-4"	U
v10(E)	8	#5	10'-5"	L J
x10	44	#4	1'-0"	—
x11	12	#4	13'-0"	—
ITEM	UNIT	QUANTITY		
CONCRETE BOX CULVERTS	CU YD	4.8		
REINFORCEMENT BARS	POUND	650		
REINFORCEMENT BARS, EPOXY COATED	POUND	90		
CONCRETE COLLAR	CU YD	1.2		

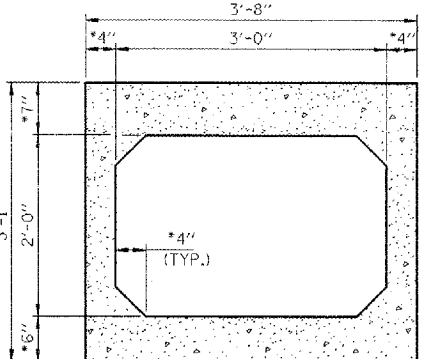
BAR BENDING DIAGRAMS



BAR CUTTING DIAGRAMS



* CUT LENGTH OF v10(E) BARS DOES NOT INCLUDE THE 2'-0" BENT LEGS.



SECTION THRU BARREL

* CONFIRM SLAB & WALL THICKNESS WITH PRECASTER



Mark S. Wylie Date 8/15/08
 MARK S. WYLIE
 ILLINOIS STRUCTURAL ENGINEER
 NO. 081-005002
 Exp. Date 11/30/08

NOTE:

WORK THIS SHEET WITH SHEET B2.

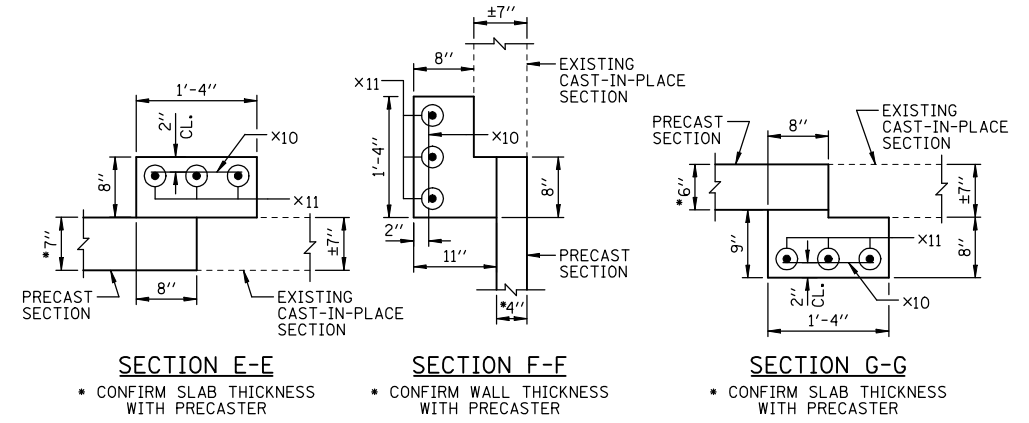
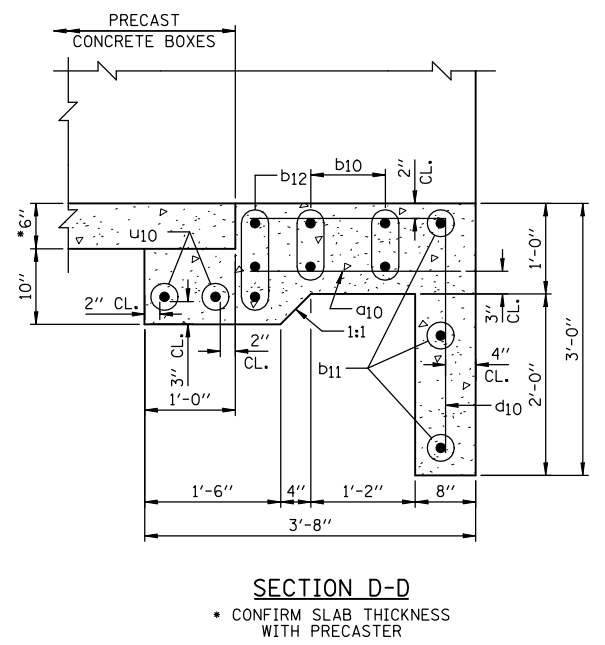
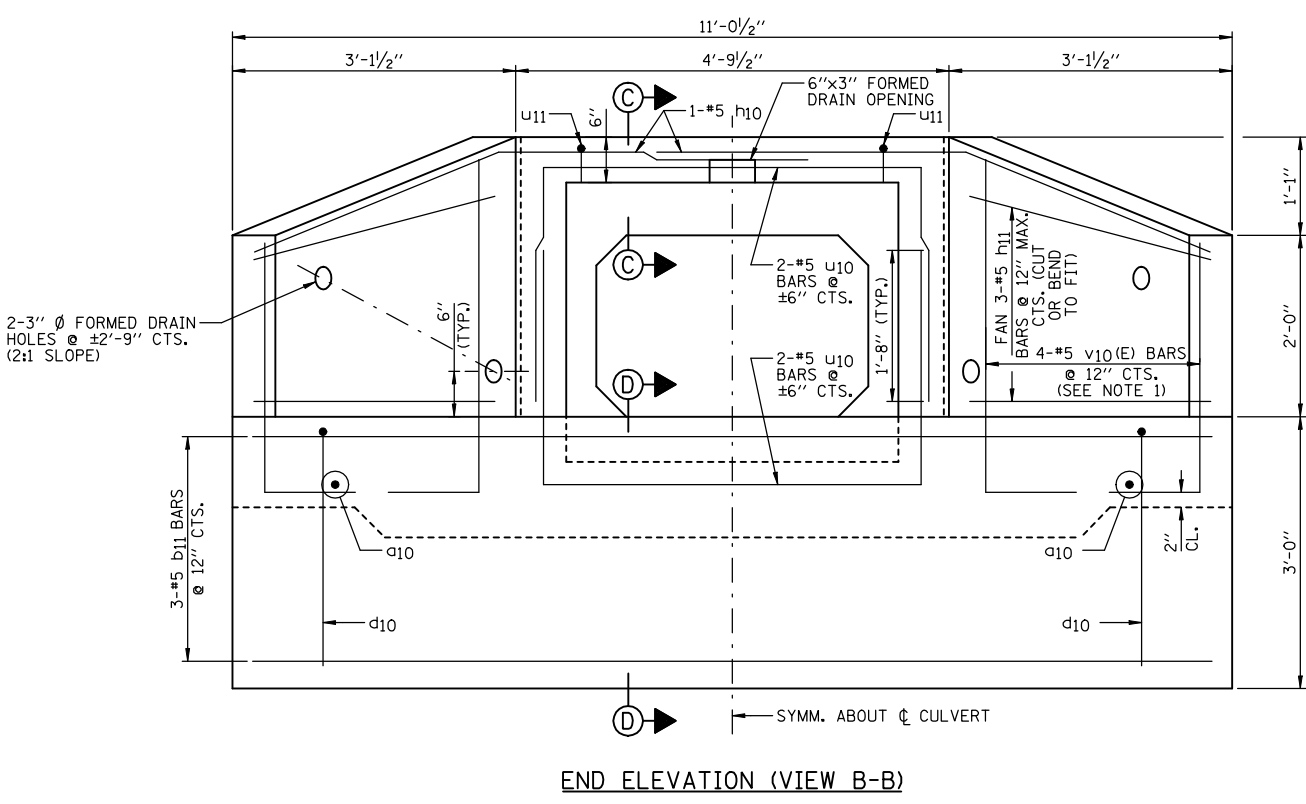
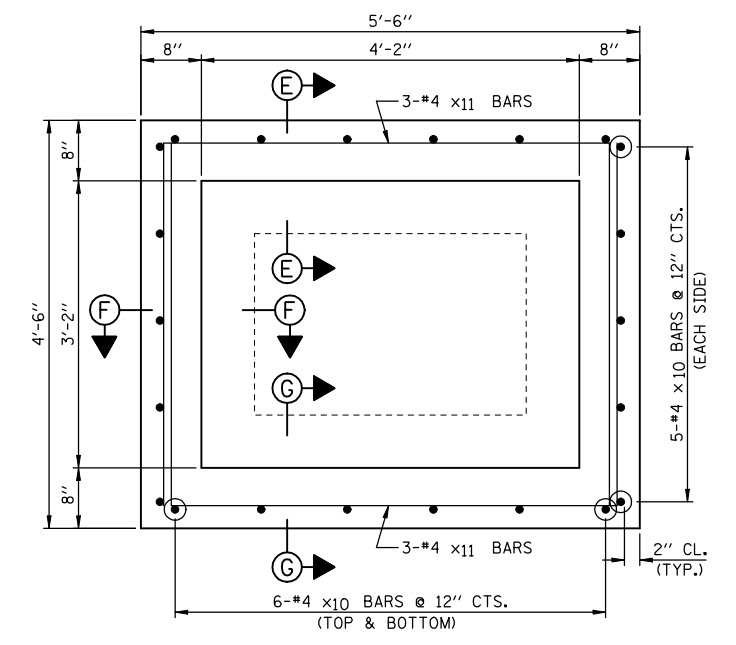
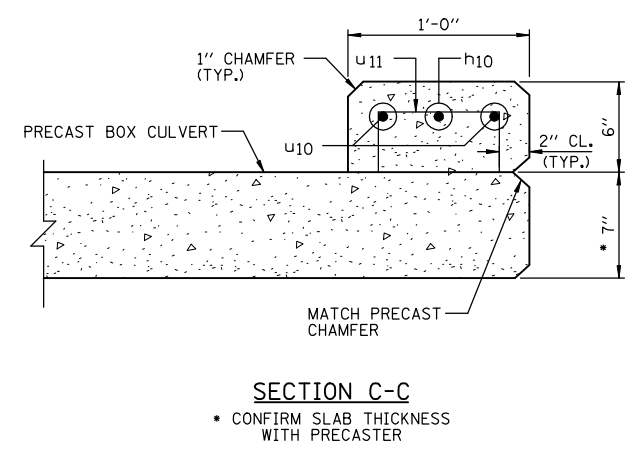
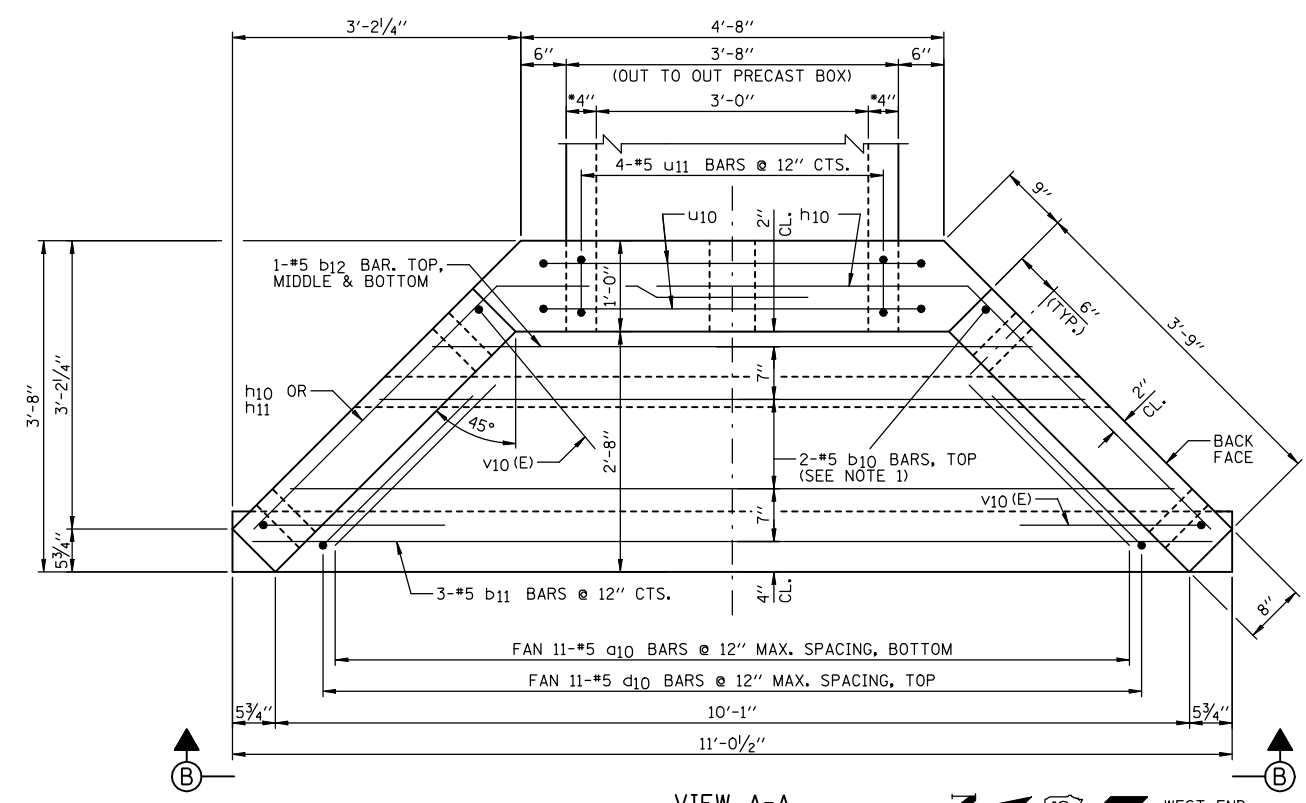
REVISIONS	DATE
NAME	

ILLINOIS DEPARTMENT OF TRANSPORTATION
CULVERT #2 EXTENSION
 (STA. 124+66.56)
 FAP ROUTE 816
 ATWOOD-ARTHUR RD
 SECTION 6RS-1 & (6BR)R
 DOUGLAS COUNTY

DATE: 11/24/03
 DRAWN BY: DJM
 CHECKED BY: MSW

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
B16	GRS-1 & (6BR)BR	DOUGLAS	176	75
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 90711		SHEET NO. B2		

OF 2 SHEETS



- NOTES:**
- 1.) ORDER b₁₀ & v₁₀(E) BARS FULL LENGTH. CUT ACCORDING TO BAR CUTTING DIAGRAM ON SHEET B1. USE REMAINDER OF b₁₀ BARS IN BOTTOM OF SLAB & REMAINDER OF v₁₀(E) BARS IN OPPOSITE WINGWALL.
 - 2.) MINIMUM BAR LAP: #5 = 1'-8"
 - 3.) WORK THIS SHEET WITH SHEET B1.
 - 4.) FOR LOCATION OF VIEW A-A SEE SHEET B1.
 - 5.) FOR LOCATION OF CONCRETE COLLARS SEE SHEET B1.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CULVERT #2 EXTENSION
 (STA. 124+66.56)
 FAP ROUTE 816
 ATWOOD-ARTHUR RD
 SECTION 6RS-1 & (6BR)BR
 DOUGLAS COUNTY

DATE: 11/24/03
 DRAWN BY: DJM
 CHECKED BY: MSW

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	GRS-1&6BR/BR	DOUGLAS	176	76A
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



Illinois Department of Transportation
Division of Highways
IDOT - Region 5/2nd 5

SOIL BORING LOG

Page 1 of 1

Date 9/21/69

ROUTE	FAS 659	DESCRIPTION	West Fork Kaskaskia River 1 mile North of Arthur		LOGGED BY	BAKER
SECTION	6 BR	LOCATION	NE, SEC. 24, TWP. 15N, RNG. 6E, 3rd PM			
COUNTY	Douglas & Moultrie	DRILLING METHOD	Hollow Stem Auger		HAMMER TYPE	Automatic
STRUCT. NO.	021-0088	D	B	U	M	
Station		E	L	C	O	
BORING NO.	1	P	O	S	I	
Station	144+90	T	W	S	S	
Offset	36.0 ft RT	H	S	Qu	T	
Ground Surface Elev.	654.7 ft	(ft)	(6")	(tsf)	(%)	
SURFACE WATER ELEV.						
Stream Bed Elev.						
GROUNDWATER ELEV.:						
First Encounter		642.7 ft ▼				
Upon Completion						
After 2.5 Hrs.						
		(ft)	(6")	(tsf)	(%)	
STIFF BROWN GRAY MOTTLED CLAY						
631.7						
44 7.2 12						
B						
HARD GRAY CLAY LOAM TILL						
629.2						
21 8.1 12						
S						
End of Boring						
649.2						
7 3.3 15						
B						
645.7						
10 3.4 13						
B						
13 4.1 13						
B						
15						
23 4.9 10						
S						
35 9.5 9						
S						
634.7						
50 10.3 10						
S						

An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available.
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)



Illinois Department of Transportation
Division of Highways
IDOT - Region 5/2nd 5

SOIL BORING LOG

Page 1 of 1

Date 9/21/69

ROUTE	FAS 659	DESCRIPTION	West Fork Kaskaskia River 1 mile North of Arthur		LOGGED BY	BAKER
SECTION	6 BR	LOCATION	NE, SEC. 24, TWP. 15N, RNG. 6E, 3rd PM			
COUNTY	Douglas & Moultrie	DRILLING METHOD	Hollow Stem Auger		HAMMER TYPE	Automatic
STRUCT. NO.	021-0088	D	B	U	M	
Station		E	L	C	O	
BORING NO.	2	P	O	S	I	
Station	144+25	T	W	S	S	
Offset	19.0 ft LT	H	S	Qu	T	
Ground Surface Elev.	659.0 ft	(ft)	(6")	(tsf)	(%)	
SURFACE WATER ELEV.						
Stream Bed Elev.						
GROUNDWATER ELEV.:						
First Encounter		644.0 ft ▼				
Upon Completion						
After _____ Hrs.						
		(ft)	(6")	(tsf)	(%)	
BLACK CLAY FILL						
636.5						
48 8.1 11						
S						
DENSE GRAY SAND						
635.0						
634.5						
STIFF BROWN MOTTLED CLAY						
634.5						
28 11.0 10						
NF						
HARD GRAY CLAY LOAM TILL						
623.5						
19 8.0 12						
E						
End of Boring						
646.5						
4 2.5 18						
B						
HARD GRAY CLAY LOAM TILL						
646.5						
10 2.1 14						
B						
14 4.7 12						
B						
16 6.0 12						
B						

An assumed centerline elevation of 100.00 and station of 10+00 is used when this information is not available.
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)

REVISIONS	
NAME	DATE

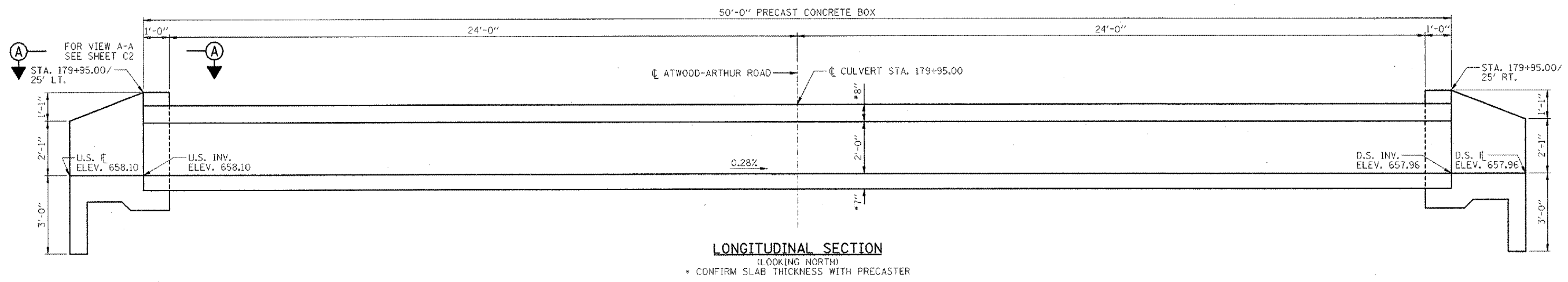
ILLINOIS DEPARTMENT OF TRANSPORTATION
BOX CULVERT SOIL BORINGS
STA 144+61.00

SCALE: VERT. HORIZ.
DATE

DRAWN BY
CHECKED BY

PLOT DATE = 8/13/2008
 FILE NAME = c:\projects\4562695\2007_08_13\submit\julia_sheets.dgn
 PLOT SCALE = 4:2.352" / 1"
 USER NAME = kejarb

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	GRS-1 & (6BR)R	DOUGLAS	176	77
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 90711		SHEET NO. C1		
OF 3 SHEETS				



LONGITUDINAL SECTION
(LOOKING NORTH)
* CONFIRM SLAB THICKNESS WITH PRECASTER

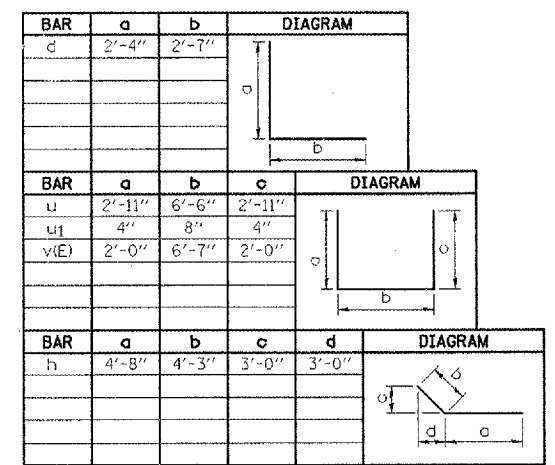
GENERAL NOTES:

- CAST-IN-PLACE CONCRETE EXPOSED EDGES SHALL BE BEVELED 1/4" IN.
- CLASS SI CONCRETE SHALL BE USED THROUGHOUT (CONCRETE STRENGTH, $f'c=3500$ psi @ 28 DAYS).
- REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 Gr 60 (IL MODIFIED). SEE SPECIAL PROVISIONS.
- REINFORCEMENT BARS DENOTED (E) SHALL BE EPOXY COATED.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DIVERT THE STREAM FLOW DURING CONSTRUCTION IN ORDER TO KEEP THE CONSTRUCTION AREAS FREE OF WATER. THE METHOD OF WATER DIVERSION SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER AND THE COST SHALL BE INCLUDED WITH THE COST OF "PRECAST CONCRETE BOX CULVERTS, 5'x2' (M273)".
- SEE SHEET C3 FOR BORING DATA.
- STRUCTURAL SEAL IS FOR CAST-IN-PLACE PORTION OF STRUCTURE ONLY.
- THE PRECAST CONCRETE CULVERT SECTIONS SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH AASHTO M273 (ASTM C850).
- FOR BACKFILLING AND EMBANKMENT, SEE STANDARD SPECIFICATIONS.
- END OF PRECAST SECTION SHALL NOT HAVE A BELL OR SPIGOT.
- THE APRON END SECTIONS SHOWN SHALL BE CAST-IN-PLACE.
- CONTRACTOR TO CONFIRM ALL PRECAST CULVERT DIMENSIONS WITH THE SUPPLIER BEFORE STARTING CONSTRUCTION.
- THE BILL OF MATERIAL SHOWN IS FOR INFORMATION ONLY. END SECTIONS WILL BE PAID FOR AS "BOX CULVERT END SECTIONS" PER EACH, SEE SCHEDULE OF QUANTITY SHEETS.

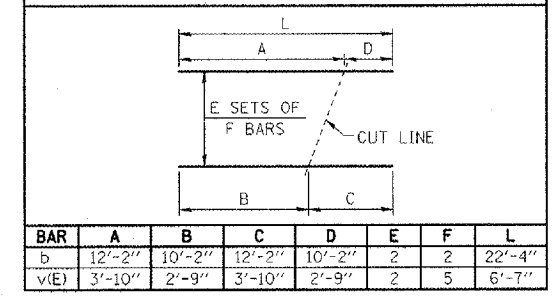
BILL OF MATERIAL
(NOTE: FOR 2 END SECTIONS)

BAR	NO.	SIZE	LENGTH	SHAPE
a	26	#5	2'-5"	—
b	4	#5	22'-4"	—
b1	6	#5	13'-3"	—
b2	6	#5	8'-10"	—
d	26	#5	4'-11"	—
h	4	#5	8'-11"	—
h1	12	#5	4'-3"	—
u	8	#5	12'-4"	—
u1	14	#5	1'-4"	—
v(E)	10	#5	10'-7"	L J
ITEM	UNIT	QUANTITY		
CONCRETE BOX CULVERTS	CU YD	6.0		
REINFORCEMENT BARS	POUND	640		
REINFORCEMENT BARS, EPOXY COATED	POUND	110		

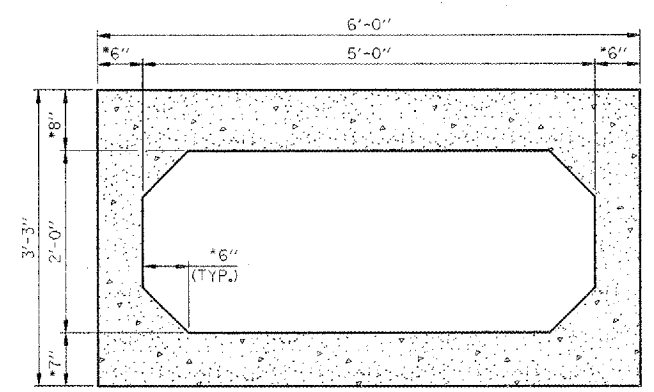
BAR BENDING DIAGRAMS



BAR CUTTING DIAGRAMS



* CUT LENGTH OF v(E) BARS DOES NOT INCLUDE THE 2'-0" BENT LEGS.



SECTION THRU BARREL
* CONFIRM SLAB & WALL THICKNESS WITH PRECASTER



Mark S. Wylie Date 8/15/08
MARK S. WYLIE
ILLINOIS STRUCTURAL ENGINEER
NO. 081-005002
Exp. Date 11/30/08

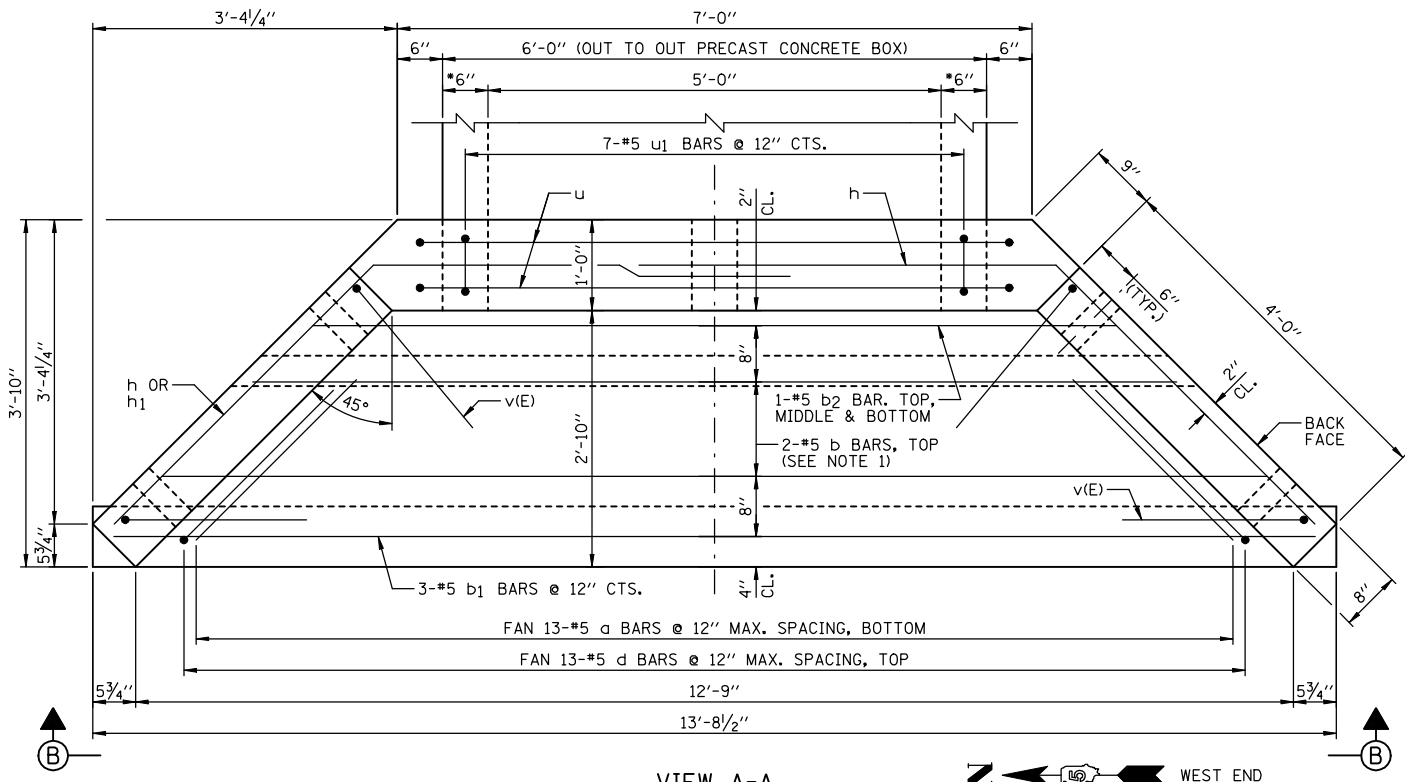
NOTE:
WORK THIS SHEET WITH SHEET C2.

REVISIONS	DATE
NAME	

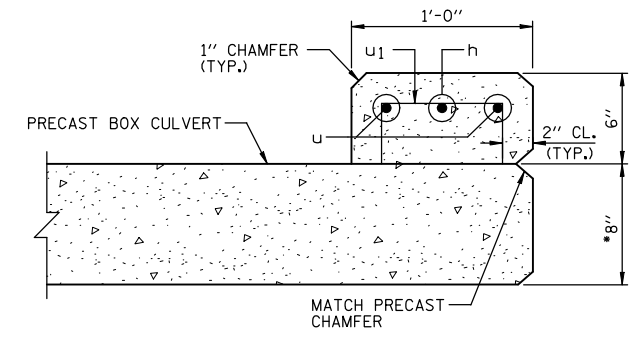
ILLINOIS DEPARTMENT OF TRANSPORTATION
CULVERT #3 REPLACEMENT
(STA. 179+95.00)
FAP ROUTE 816
ATWOOD-ARTHUR RD
SECTION 6RS-1 & (6BR)R
DOUGLAS COUNTY
DRAWN BY: DJM
CHECKED BY: MSW
DATE: 11/24/03

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
B16	6RS-1 & (6BR)R	DOUGLAS	176	78
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 90711		SHEET NO. C2		

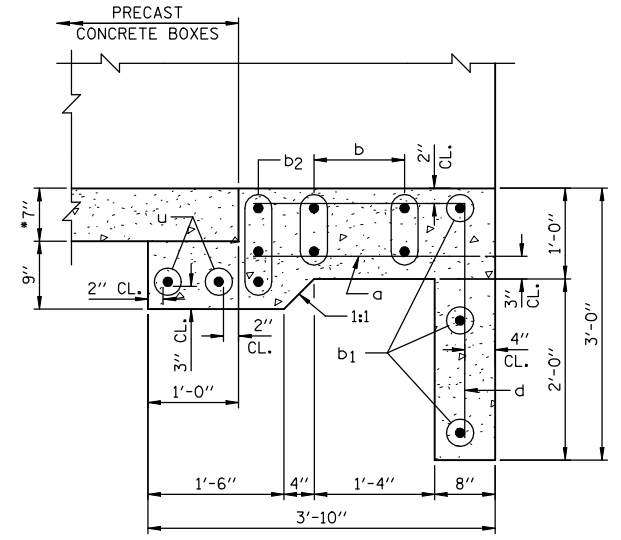
OF 3 SHEETS



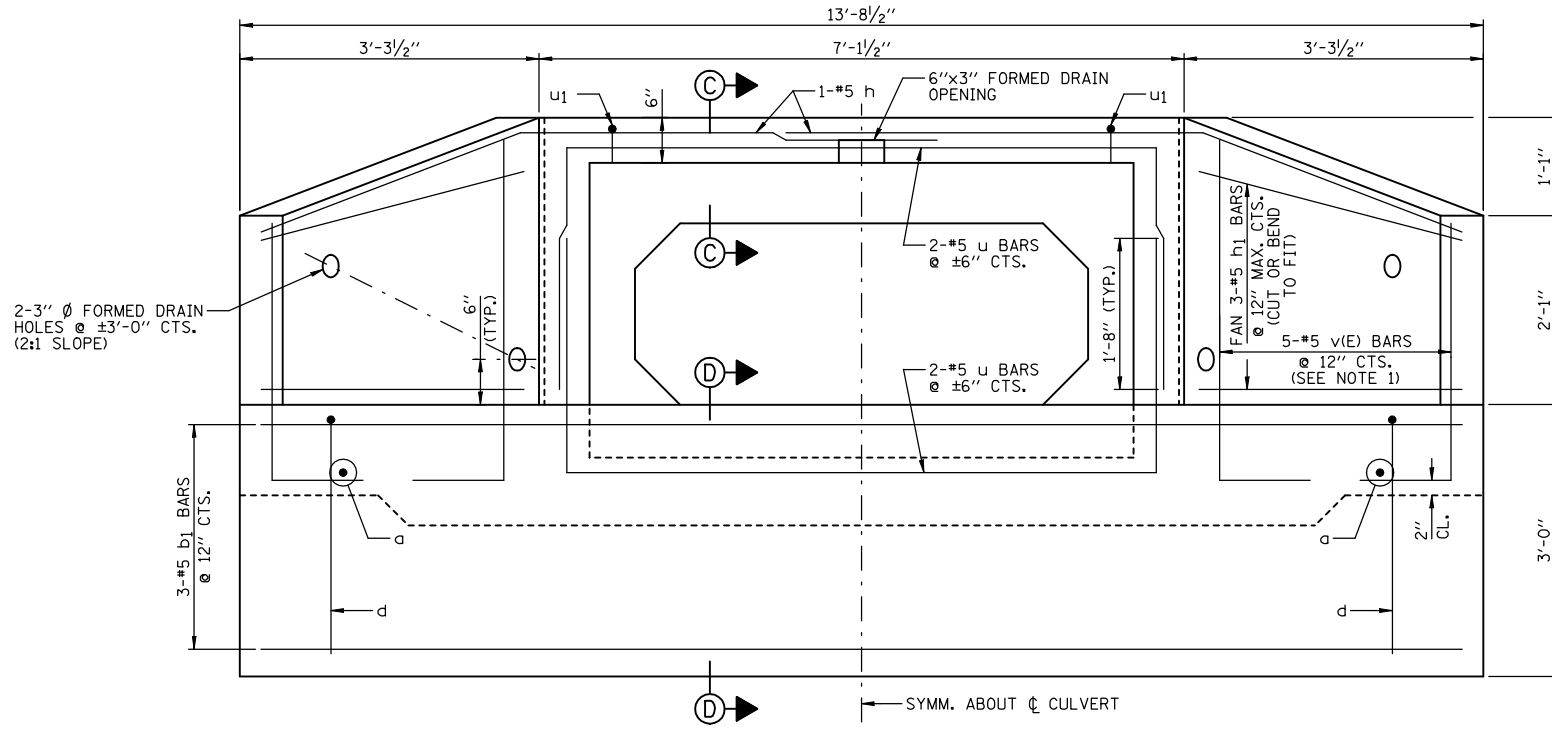
VIEW A-A
 • CONFIRM WALL THICKNESS WITH PRECASTER



SECTION C-C
 • CONFIRM SLAB THICKNESS WITH PRECASTER



SECTION D-D
 • CONFIRM SLAB THICKNESS WITH PRECASTER



END ELEVATION (VIEW B-B)

NOTES:

- 1.) ORDER b & v(E) BARS FULL LENGTH. CUT ACCORDING TO BAR CUTTING DIAGRAM ON SHEET C1. USE REMAINDER OF b BARS IN BOTTOM OF SLAB & REMAINDER OF v(E) BARS IN OPPOSITE WINGWALL.
- 2.) MINIMUM BAR LAP: #5 = 1'-8"
- 3.) WORK THIS SHEET WITH SHEET C1.
- 4.) FOR LOCATION OF VIEW A-A SEE SHEET C1.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CULVERT #3 REPLACEMENT
 (STA. 179+95.00)
 FAP ROUTE 816
 ATWOOD-ARTHUR RD
 SECTION 6RS-1 & (6BR)R
 DOUGLAS COUNTY

DATE: 11/24/03
 DRAWN BY: DJM
 CHECKED BY: MSW



Illinois Department of Transportation
Division of Highways
IDOT - Dist 5

SOIL BORING LOG

Page 1 of 1
Date 10/21/02

ROUTE FAP Route 816 (000E) DESCRIPTION 1.5 Miles North of Arthur LOGGED BY CNA
SECTION 6RS-1 LOCATION SW, SEC. 18, TWP. 15N, RNG. 7E, 3rd PM
COUNTY Douglas DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. Station	BORING NO. Station	Offset ft	Ground Surface Elev. ft	DEPTH (ft)	BLOW S	UCS (tsf)	MOIST (%)	Surface Water Elev. ft	Stream Bed Elev. ft	Groundwater Elev.: First Encounter Upon Completion After Hrs.
179+95	3 NE Boring	14.0	661.7	1				Dry	658.4	
				1	1.4	28				
				3	B					
179+98	3 NE Boring	14.0	656.7	1				Dry	658.4	
				1	0.7	26				
				2	B					
179+98	3 NE Boring	14.0	653.7	1				Dry	658.4	
				1	1.4	19				
				3	B					
179+98	3 NE Boring	14.0	651.2	2				Dry	658.4	
				4	4.5	13				
				6	B					
179+98	3 NE Boring	14.0	646.7	2				Dry	658.4	
				6	5.4	21				
				8	B					
End of Boring										

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)



Illinois Department of Transportation
Division of Highways
IDOT - Dist 5

SOIL BORING LOG

Page 1 of 1
Date 10/21/02

ROUTE FAP Route 816 (000E) DESCRIPTION 1.5 Miles North of Arthur LOGGED BY CNA
SECTION 6RS-1 LOCATION SW, SEC. 18, TWP. 15N, RNG. 7E, 3rd PM
COUNTY Douglas DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

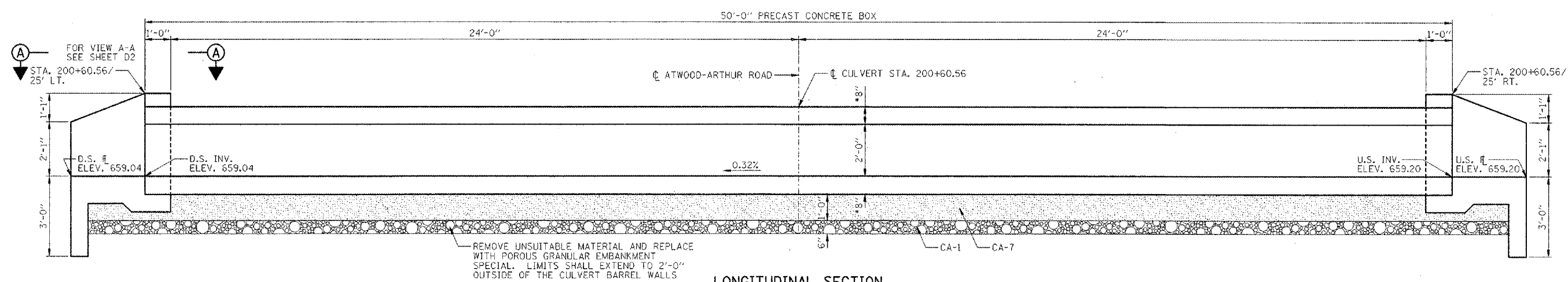
STRUCT. NO. Station	BORING NO. Station	Offset ft	Ground Surface Elev. ft	DEPTH (ft)	BLOW S	UCS (tsf)	MOIST (%)	Surface Water Elev. ft	Stream Bed Elev. ft	Groundwater Elev.: First Encounter Upon Completion After Hrs.
179+95	4 NW Boring	14.0	661.6	1				Dry	658.4	
				2	2.7	21				
				3	B					
179+95	4 NW Boring	14.0	656.6	1				Dry	658.4	
				2	0.7	21				
				2	B					
179+95	4 NW Boring	14.0	651.1	2				Dry	658.4	
				3	1.9	11				
				6	B					
179+95	4 NW Boring	14.0	651.1	3				Dry	658.4	
				3	4.5	12				
				6	B					
179+95	4 NW Boring	14.0	646.6	2				Dry	658.4	
				6	6.8	12				
				10	B					
End of Boring										

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)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BORING LOGS CULVERT #3
(STA. 179+95.00)
FAP ROUTE 816
ATWOOD-ARTHUR RD
SECTION 6RS-1 & (6BR)BR
DOUGLAS COUNTY
DRAWN BY: DJM
CHECKED BY: MSW
DATE: 11/24/03

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6RS-1 & 6BR1R	DOUGLAS	176	80
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 90711			SHEET NO. D1	
OF 3 SHEETS				



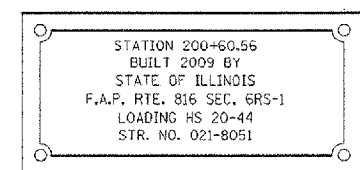
LONGITUDINAL SECTION
(LOOKING NORTH)
* CONFIRM SLAB THICKNESS WITH PRECASTER

GENERAL NOTES:

- CAST-IN-PLACE CONCRETE EXPOSED EDGES SHALL BE BEVELED 3/4 IN.
- CLASS SI CONCRETE SHALL BE USED THROUGHOUT (CONCRETE STRENGTH, f'c=3500 psi @ 28 DAYS).
- REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 Gr 60 (HL MODIFIED). SEE SPECIAL PROVISIONS.
- REINFORCEMENT BARS DENOTED (E) SHALL BE EPOXY COATED.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DIVERT THE STREAM FLOW DURING CONSTRUCTION IN ORDER TO KEEP THE CONSTRUCTION AREAS FREE OF WATER. THE METHOD OF WATER DIVERSION SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER AND THE COST SHALL BE INCLUDED WITH THE COST OF "PRECAST CONCRETE BOX CULVERTS, 7'x2' (M273)".
- SEE SHEET D3 FOR BORING DATA.
- STRUCTURAL SEAL IS FOR CAST-IN-PLACE PORTION OF STRUCTURE ONLY.
- THE PRECAST CONCRETE CULVERT SECTIONS SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH AASHTO M273 (ASTM C850).
- FOR BACKFILLING AND EMBANKMENT, SEE STANDARD SPECIFICATIONS.
- END OF PRECAST SECTION SHALL NOT HAVE A BELL OR SPIGOT.
- THE APRON END SECTIONS SHOWN SHALL BE CAST-IN-PLACE.
- THE PAY ITEM "REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL" SHALL INCLUDE THE EXCAVATION OF UNSUITABLE MATERIAL FOR A DEPTH TO 1'-6" BELOW THE STRUCTURE FOR A WIDTH OF APPROXIMATELY 12'-4" WITHIN THE LIMITS OF THE CUTOFF WALLS AS SHOWN AND WITHIN THE LIMITS OF THE PROPOSED CAST-IN-PLACE APRON AS SHOWN. THE ACTUAL AMOUNT SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- THE PAY ITEM "POROUS GRANULAR EMBANKMENT SPECIAL" SHALL INCLUDE THE PLACEMENT OF THE CA-1 AND CA-7 AS SHOWN IN THE LONGITUDINAL SECTION. THE WIDTH FOR THE "POROUS GRANULAR EMBANKMENT SPECIAL" SHALL BE APPROXIMATELY 12'-4" WIDE UNDER THE CULVERT. THE "POROUS GRANULAR EMBANKMENT SPECIAL" SHALL BE WITHIN THE LIMITS OF THE TOE WALL AS SHOWN UNDER THE PROPOSED CAST-IN-PLACE APRON. THE ACTUAL AMOUNT SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- CONTRACTOR TO CONFIRM ALL PRECAST CULVERT DIMENSIONS WITH THE SUPPLIER BEFORE STARTING CONSTRUCTION.
- THE BILL OF MATERIAL SHOWN IS FOR INFORMATION ONLY. END SECTIONS WILL BE PAID FOR AS "BOX CULVERT END SECTIONS" PER EACH, SEE SCHEDULE OF QUANTITY SHEETS.

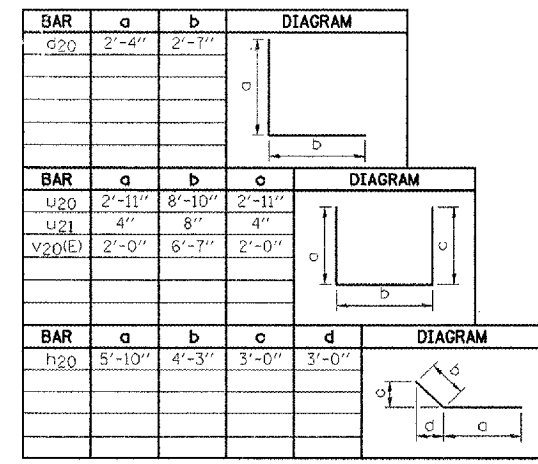
BILL OF MATERIAL
(NOTE: FOR 2 END SECTIONS)

BAR	NO.	SIZE	LENGTH	SHAPE
d20	32	#5	2'-5"	—
b20	4	#5	27'-0"	—
b21	6	#5	15'-6"	—
b22	6	#5	11'-2"	—
d20	32	#5	4'-11"	└
h20	4	#5	10'-1"	└
h21	12	#5	4'-3"	—
u20	8	#5	14'-8"	┌
u21	18	#5	1'-4"	┌
v20(E)	10	#5	10'-7"	L J
ITEM	UNIT	QUANTITY		
CONCRETE BOX CULVERTS	CU YD	6.9		
REINFORCEMENT BARS	POUND	770		
REINFORCEMENT BARS, EPOXY COATED	POUND	110		
NAME PLATES	EACH	1		

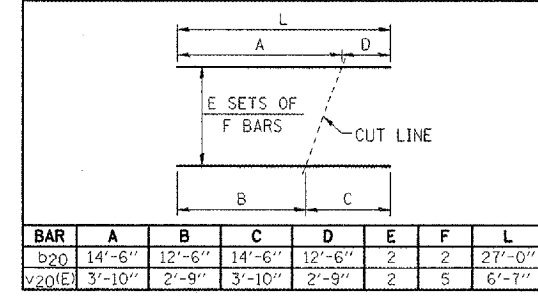


NAME PLATE
* See Highway Standard 515001-02 for dimensions and placement.
* Name Plate will be paid for at the contract unit price per "EACH" for "NAME PLATES".

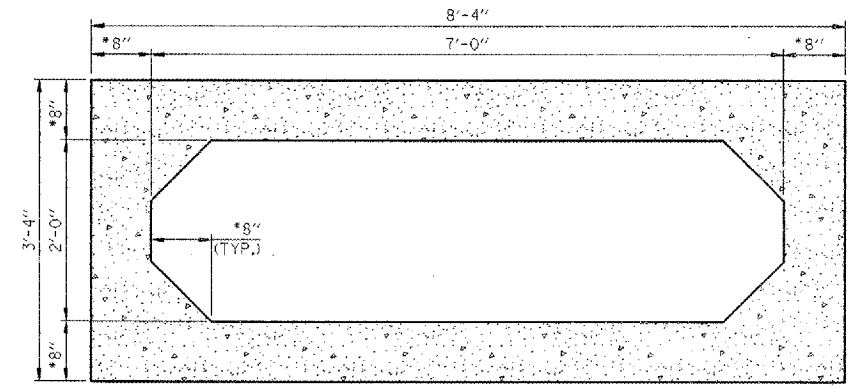
BAR BENDING DIAGRAMS



BAR CUTTING DIAGRAMS



* CUT LENGTH OF v20(E) BARS DOES NOT INCLUDE THE 2'-0" BENT LEGS.



SECTION THRU BARREL
* CONFIRM SLAB & WALL THICKNESS WITH PRECASTER



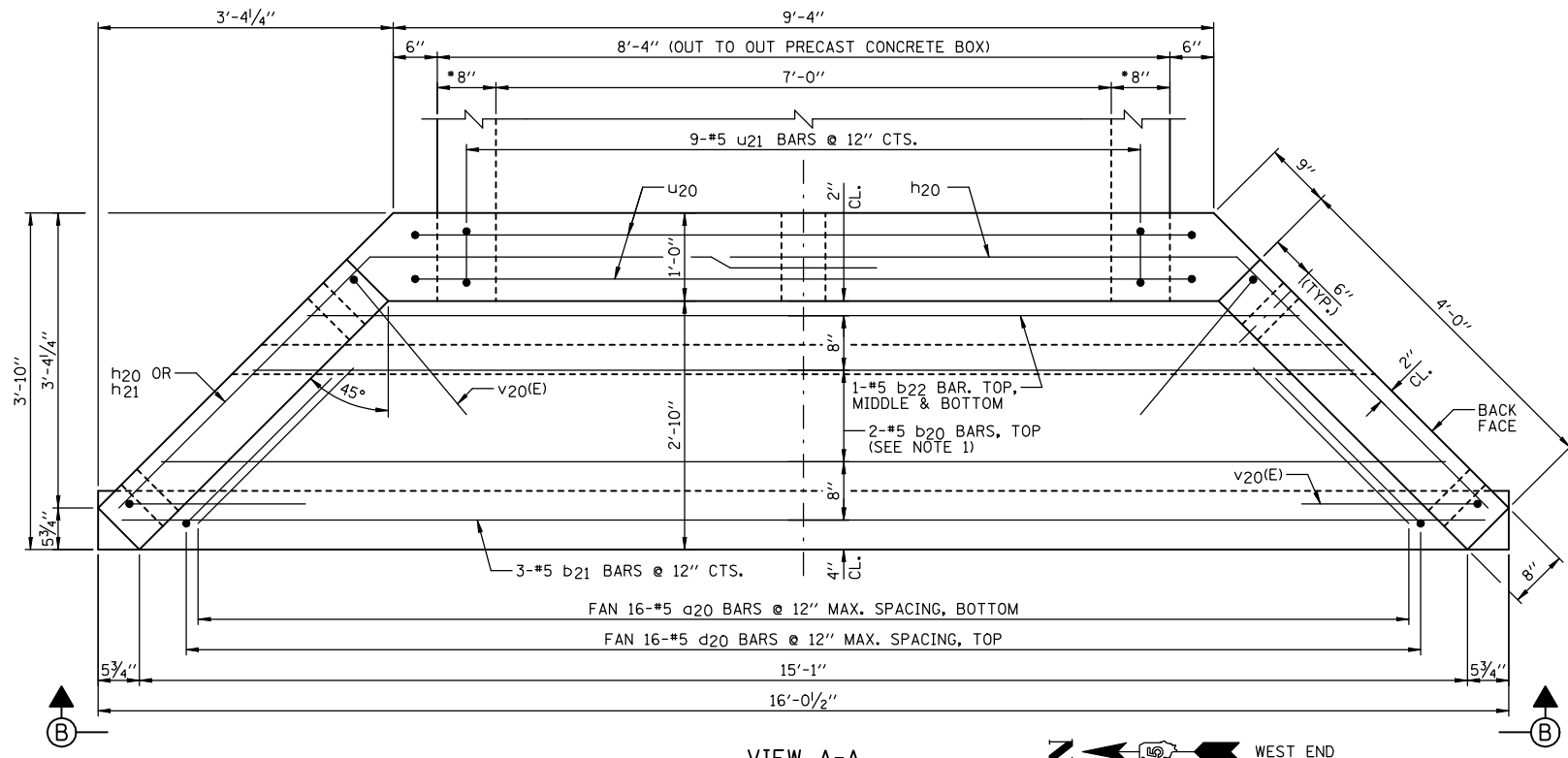
Mark S. Wylie Date 8/15/08
MARK S. WYLIE
ILLINOIS STRUCTURAL ENGINEER
NO. 081-005002
Exp. Date 11/30/08

NOTE:
WORK THIS SHEET WITH SHEET D2.

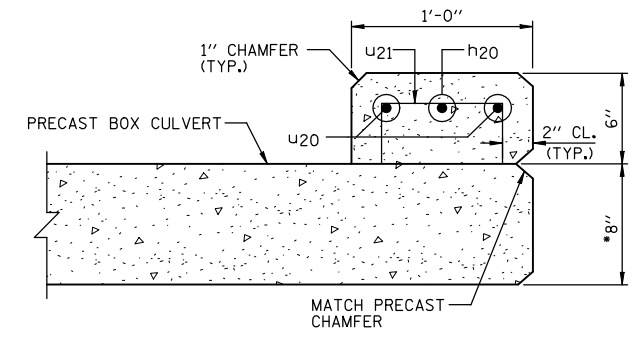
REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CULVERT #4 REPLACEMENT
(STA. 200+60.56)
FAP ROUTE 816
ATWOOD-ARTHUR RD
SECTION 6RS-1 & (6BR)BR
DOUGLAS COUNTY
PR. STR. 021-8051
DATE: 11/24/03
DRAWN BY: DJM
CHECKED BY: MSW

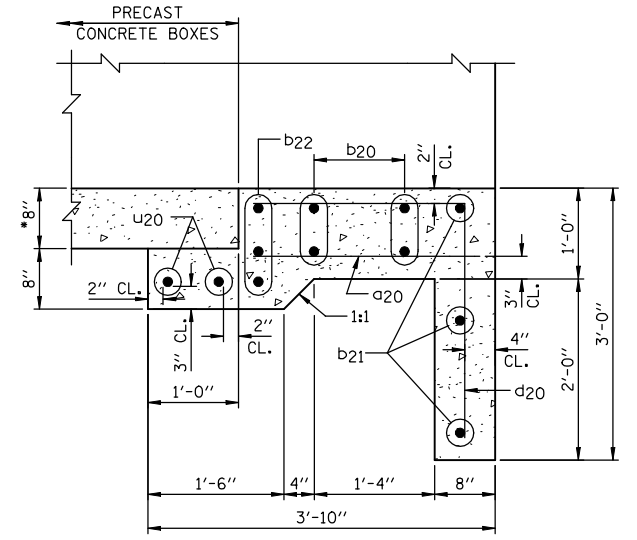
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
B16	6RS-1 & (6BR)R	DOUGLAS	176	81
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 90711		SHEET NO. D2		
OF 3 SHEETS				



VIEW A-A
 • CONFIRM WALL THICKNESS WITH PRECASTER

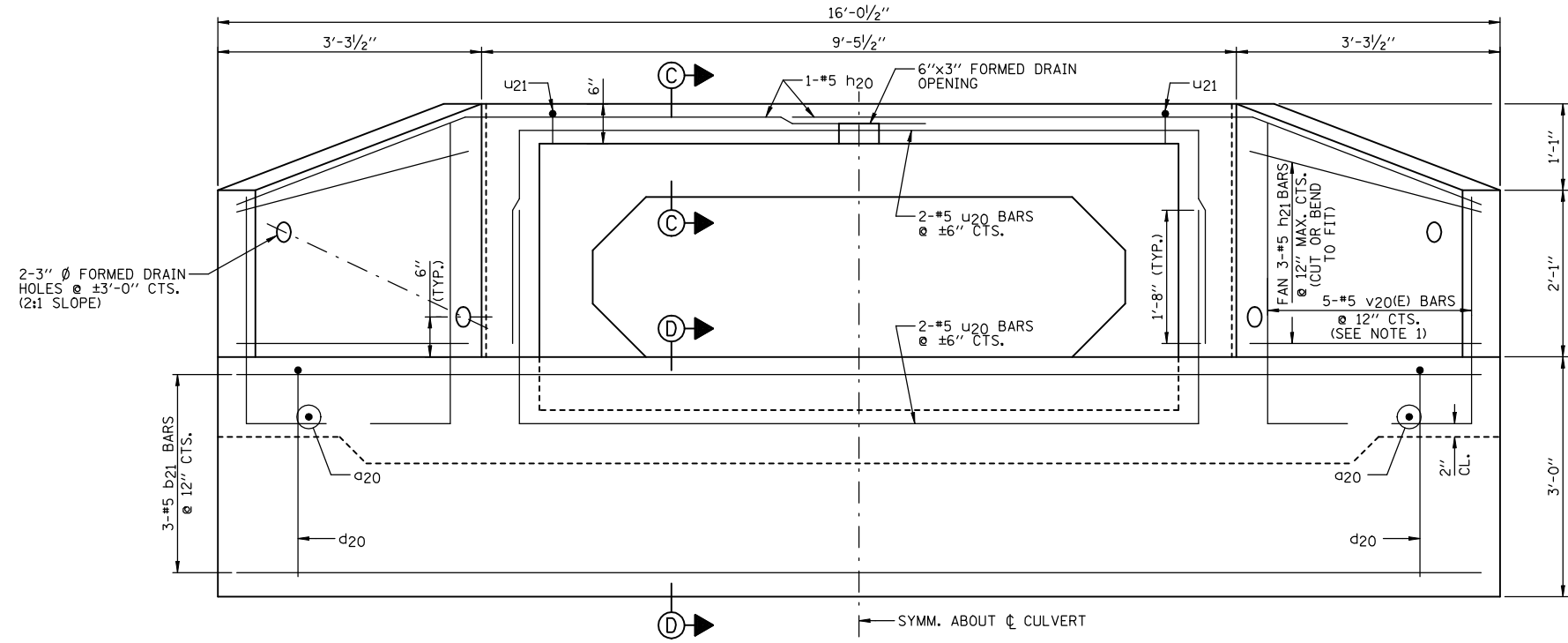


SECTION C-C
 • CONFIRM SLAB THICKNESS WITH PRECASTER



SECTION D-D
 • CONFIRM SLAB THICKNESS WITH PRECASTER

- NOTES:**
- 1.) ORDER b20 & v20(E) BARS FULL LENGTH. CUT ACCORDING TO BAR CUTTING DIAGRAM ON SHEET D1. USE REMAINDER OF b20 BARS IN BOTTOM OF SLAB & REMAINDER OF v20(E) BARS IN OPPOSITE WINGWALL.
 - 2.) MINIMUM BAR LAP: #5 = 1'-8"
 - 3.) WORK THIS SHEET WITH SHEET D1.
 - 4.) FOR LOCATION OF VIEW A-A SEE SHEET D1.



END ELEVATION (VIEW B-B)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CULVERT #4 REPLACEMENT
 (STA. 200+60.56)
 FAP ROUTE 816
 ATWOOD-ARTHUR RD
 SECTION 6RS-1 & (6BR)R
 DOUGLAS COUNTY
 PR. STR. 021-8051
 DATE: 11/24/03

DRAWN BY: DJM
 CHECKED BY: MSW



Illinois Department of Transportation
Division of Highways
IDOT - Dist 5

SOIL BORING LOG

Page 1 of 1

Date 10/21/02

ROUTE FAP Route 816 (000E) DESCRIPTION 2 Miles North of Arthur LOGGED BY CNA
SECTION 6RS-1 LOCATION NW, SEC. 18, TWP. 15N, RNG. 7E, 3rd PM
COUNTY Douglas DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	Station	D E P T H	B L O W S	U C S Qu	M O I S T	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After
		(ft)	(/6")	(tsf)	(%)	Dry			ft	ft	ft
	200+60.56										
BORING NO. 5 NE Boring	Station 200+63										
	Offset 14.0 ft Rt.										
	Ground Surface Elev. 662.9 ft										
Black Silty Clay											
	658.4	1	2	1.9	27						
Brown/Gray Mottled Silty Clay Loam											
	655.4	1	2								
Brown Mottled Sandy Clay Loam to Silt Loam (Mixed)											
	652.4	1	2	1.7	15						
Gray Clay Loam Till											
	647.9	2	4	4.3	12						
		6	6	6.0	10						
End of Boring		8									

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)



Illinois Department of Transportation
Division of Highways
IDOT - Dist 5

SOIL BORING LOG

Page 1 of 1

Date 10/21/02

ROUTE FAP Route 816 (000E) DESCRIPTION 2 Miles North of Arthur LOGGED BY CNA
SECTION 6RS-1 LOCATION NW, SEC. 18, TWP. 15N, RNG. 7E, 3rd PM
COUNTY Douglas DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	Station	D E P T H	B L O W S	U C S Qu	M O I S T	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After
		(ft)	(/6")	(tsf)	(%)	Dry			ft	ft	ft
	200+60.56										
BORING NO. 6 NW Boring	Station 200+65										
	Offset 14.0 ft Lt.										
	Ground Surface Elev. 662.8 ft										
Black Mottled Silty Clay											
	657.8	1	2	1.9	28						
Brown/Gray Mottled Silty Clay											
	655.4	1	2	1.4	22						
		1	1								
		1	1	0.6	33						
	651.8	3	6	6.9	11						
Gray Clay Loam Till											
	647.8	2	9	8.7	10						
		10									
End of Boring		15									

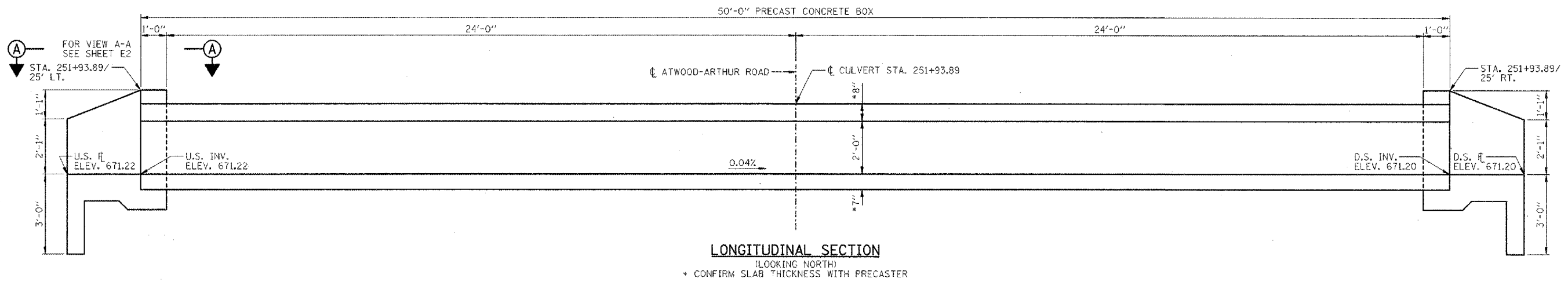
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BORING LOGS CULVERT #4
(STA. 200+60.56)
FAP ROUTE 816
ATWOOD-ARTHUR RD
SECTION 6RS-1 & (6BR)BR
DOUGLAS COUNTY
PR. STR. 021-8051
DATE: 11/24/03

DRAWN BY: DJM
CHECKED BY: MSW

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6RS-1 & 6BR/BR	DOUGLAS	176	83
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 90711			SHEET NO. E1	
OF 3 SHEETS				



LONGITUDINAL SECTION
(LOOKING NORTH)
* CONFIRM SLAB THICKNESS WITH PRECASTER

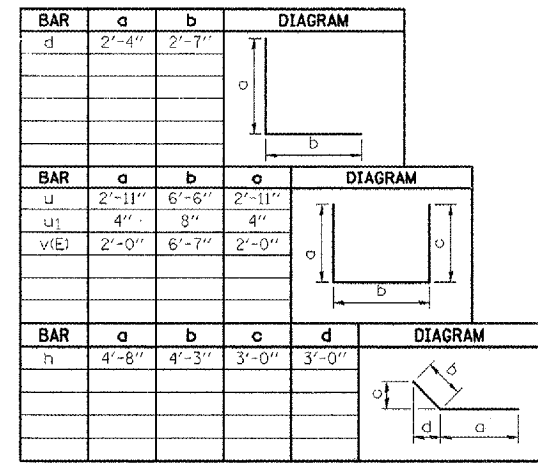
GENERAL NOTES:

- CAST-IN-PLACE CONCRETE EXPOSED EDGES SHALL BE BEVELED 3/4 IN.
- CLASS S1 CONCRETE SHALL BE USED THROUGHOUT (CONCRETE STRENGTH, $f'_c=3500$ psi @ 28 DAYS).
- REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 Gr 60 (IL MODIFIED). SEE SPECIAL PROVISIONS.
- REINFORCEMENT BARS DENOTED (E) SHALL BE EPOXY COATED.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DIVERT THE STREAM FLOW DURING CONSTRUCTION IN ORDER TO KEEP THE CONSTRUCTION AREAS FREE OF WATER. THE METHOD OF WATER DIVERSION SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER AND THE COST SHALL BE INCLUDED WITH THE COST OF "PRECAST CONCRETE BOX CULVERTS, 5'x2' (M273)".
- SEE SHEET E3 FOR BORING DATA.
- STRUCTURAL SEAL IS FOR CAST-IN-PLACE PORTION OF STRUCTURE ONLY.
- THE PRECAST CONCRETE CULVERT SECTIONS SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH AASHTO M273 (ASTM C850).
- FOR BACKFILLING AND EMBANKMENT, SEE STANDARD SPECIFICATIONS.
- END OF PRECAST SECTION SHALL NOT HAVE A BELL OR SPIGOT.
- THE APRON END SECTIONS SHOWN SHALL BE CAST-IN-PLACE.
- CONTRACTOR TO CONFIRM ALL PRECAST CULVERT DIMENSIONS WITH THE SUPPLIER BEFORE STARTING CONSTRUCTION.
- THE BILL OF MATERIAL SHOWN IS FOR INFORMATION ONLY. END SECTIONS WILL BE PAID FOR AS "BOX CULVERT END SECTIONS" PER EACH, SEE SCHEDULE OF QUANTITY SHEETS.

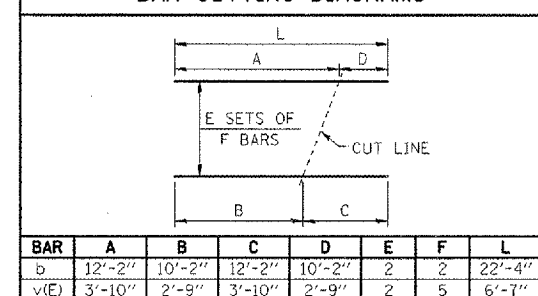
BILL OF MATERIAL
(NOTE: FOR 2 END SECTIONS)

BAR	NO.	SIZE	LENGTH	SHAPE
a	26	#5	2'-5"	—
b	4	#5	22'-4"	—
b1	6	#5	13'-3"	—
b2	6	#5	8'-10"	—
d	26	#5	4'-11"	—
h	4	#5	8'-11"	—
h1	12	#5	4'-3"	—
u	8	#5	12'-4"	—
u1	14	#5	1'-4"	—
v(E)	10	#5	10'-7"	L J
ITEM	UNIT	QUANTITY		
CONCRETE BOX CULVERTS	CU YD	6.0		
REINFORCEMENT BARS	POUND	640		
REINFORCEMENT BARS, EPOXY COATED	POUND	110		

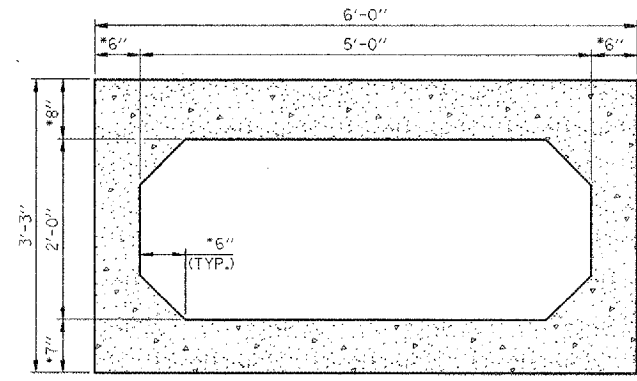
BAR BENDING DIAGRAMS



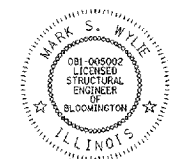
BAR CUTTING DIAGRAMS



* CUT LENGTH OF v(E) BARS DOES NOT INCLUDE THE 2'-0" BENT LEGS.



SECTION THRU BARREL
* CONFIRM SLAB & WALL THICKNESS WITH PRECASTER



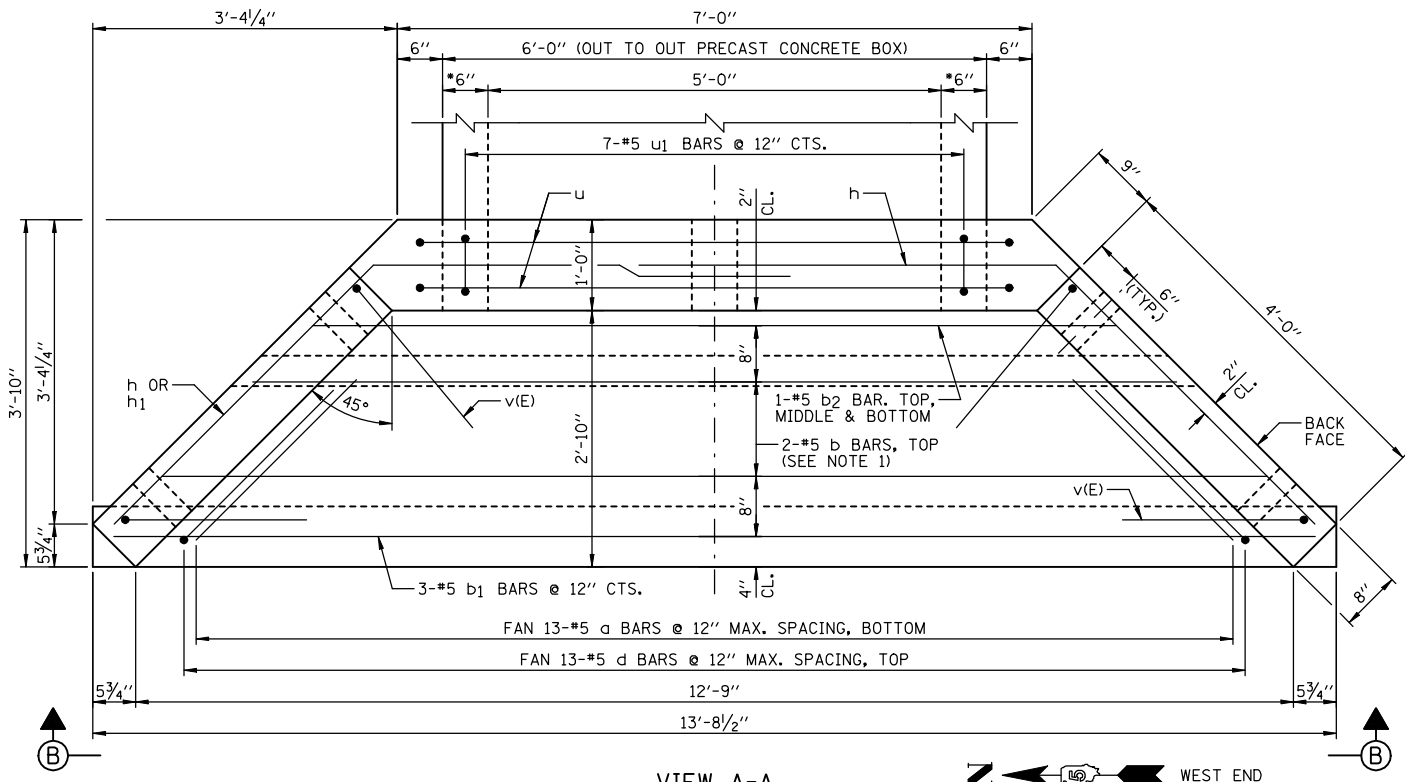
Mark Wylie Date 8/15/08
MARK S. WYLIE
ILLINOIS STRUCTURAL ENGINEER
NO. 081-005002
Exp. Date 11/30/08

NOTE:
WORK THIS SHEET WITH SHEET E2.

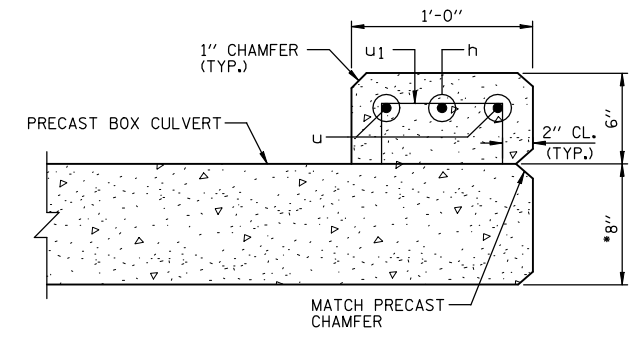
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CULVERT #5 REPLACEMENT
(STA. 251+93.89)
FAP ROUTE 816
ATWOOD-ARTHUR RD
SECTION 6RS-1 & (6BR)BR
DOUGLAS COUNTY
DRAWN BY: DJM
CHECKED BY: MSW
DATE: 11/24/03

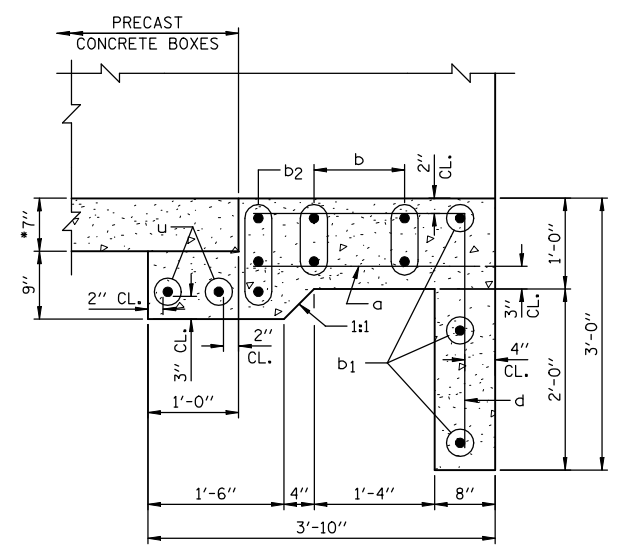
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
B16	6RS-1 & (6BR)R	DOUGLAS	176	84
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 90711		SHEET NO. E2		
OF 3 SHEETS				



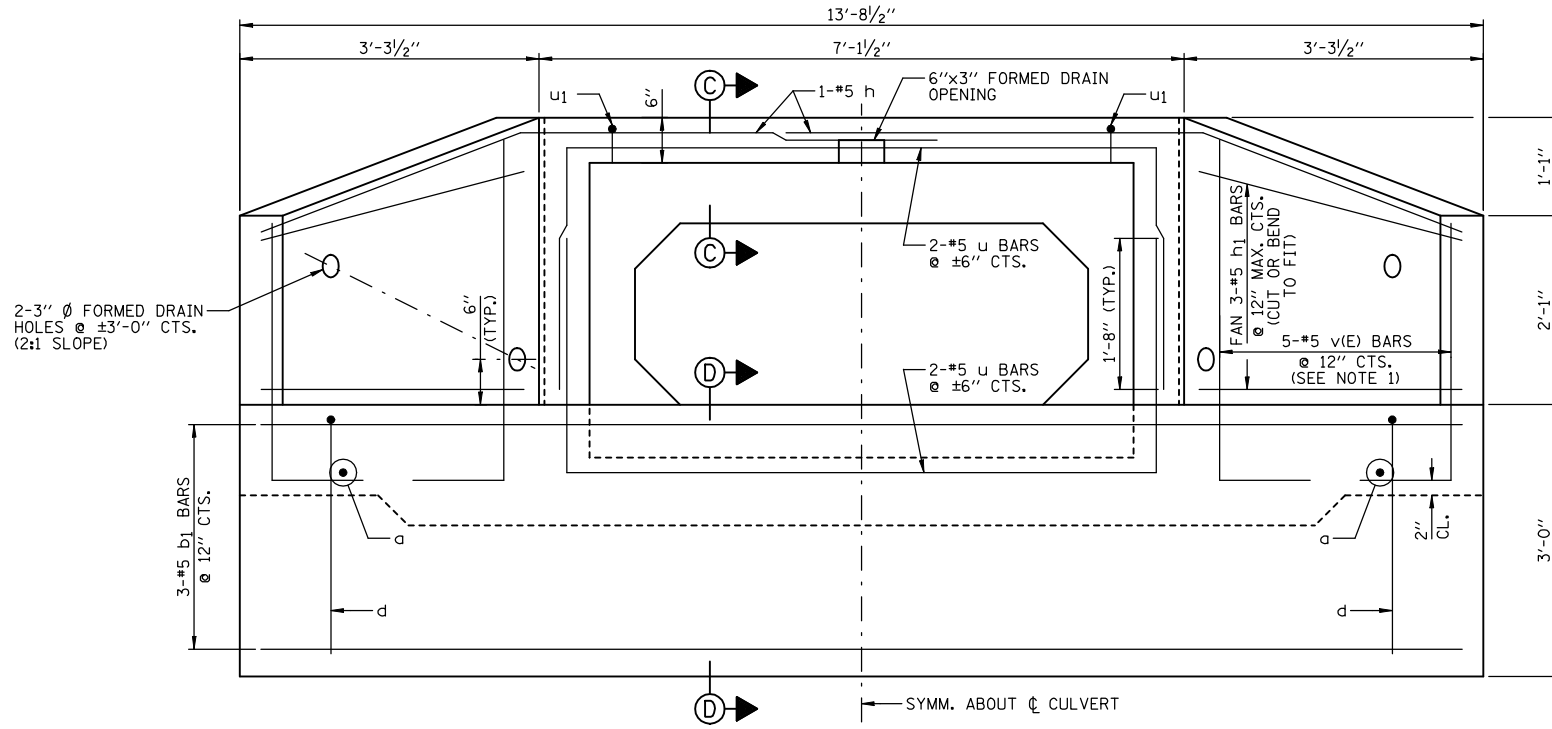
VIEW A-A
 • CONFIRM WALL THICKNESS WITH PRECASTER



SECTION C-C
 • CONFIRM SLAB THICKNESS WITH PRECASTER



SECTION D-D
 • CONFIRM SLAB THICKNESS WITH PRECASTER



END ELEVATION (VIEW B-B)

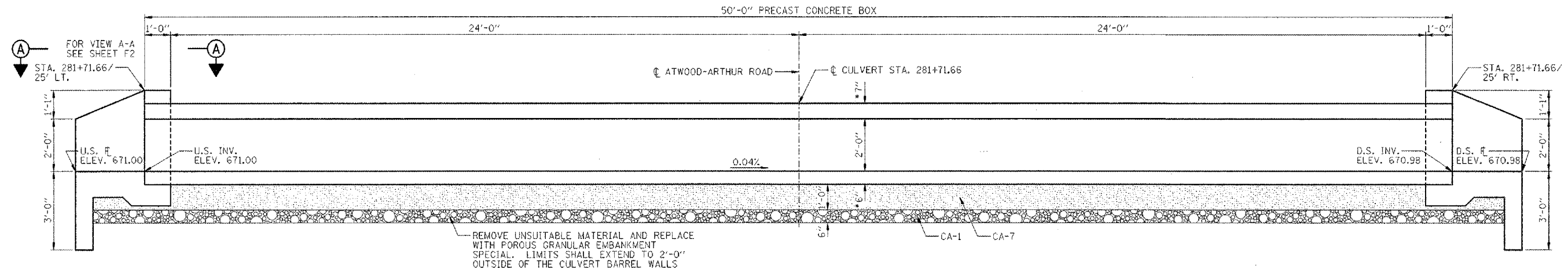
- NOTES:**
- 1.) ORDER b & v(E) BARS FULL LENGTH. CUT ACCORDING TO BAR CUTTING DIAGRAM ON SHEET E1. USE REMAINDER OF b BARS IN BOTTOM OF SLAB & REMAINDER OF v(E) BARS IN OPPOSITE WINGWALL.
 - 2.) MINIMUM BAR LAP: #5 = 1'-8"
 - 3.) WORK THIS SHEET WITH SHEET E1.
 - 4.) FOR LOCATION OF VIEW A-A SEE SHEET E1.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CULVERT #5 REPLACEMENT
 (STA. 251+93.89)
 FAP ROUTE 816
 ATWOOD-ARTHUR RD
 SECTION 6RS-1 & (6BR)R
 DOUGLAS COUNTY

DRAWN BY: DJM
 CHECKED BY: MSW
 DATE: 11/24/03

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6RS-1 & (6BR)BR	DOUGLAS	176	86
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 90711			SHEET NO. F1	
OF 3 SHEETS				



LONGITUDINAL SECTION
(LOOKING NORTH)
* CONFIRM SLAB THICKNESS WITH PRECASTER

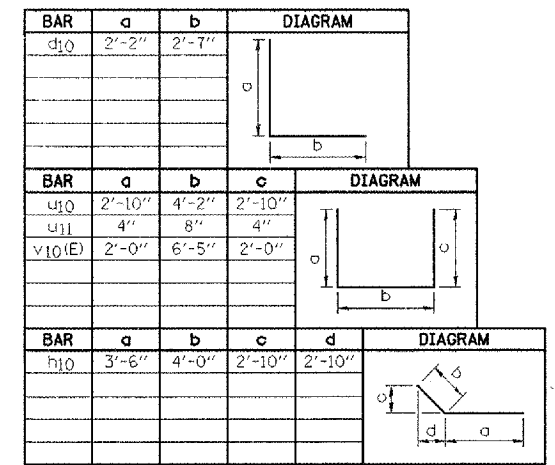
GENERAL NOTES:

- CAST-IN-PLACE CONCRETE EXPOSED EDGES SHALL BE BEVELED 3/4 IN.
- CLASS SI CONCRETE SHALL BE USED THROUGHOUT (CONCRETE STRENGTH, f'c=3500 psi @ 28 DAYS).
- REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 Gr 60 (IL MODIFIED). SEE SPECIAL PROVISIONS.
- REINFORCEMENT BARS DENOTED (E) SHALL BE EPOXY COATED.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DIVERT THE STREAM FLOW DURING CONSTRUCTION IN ORDER TO KEEP THE CONSTRUCTION AREAS FREE OF WATER. THE METHOD OF WATER DIVERSION SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER AND THE COST SHALL BE INCLUDED WITH THE COST OF "PRECAST CONCRETE BOX CULVERTS, 3'x2' (M273)".
- SEE SHEET F3 FOR BORING DATA.
- STRUCTURAL SEAL IS FOR CAST-IN-PLACE PORTION OF STRUCTURE ONLY.
- THE PRECAST CONCRETE CULVERT SECTIONS SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH AASHTO M273 (ASTM C850).
- FOR BACKFILLING AND EMBANKMENT, SEE STANDARD SPECIFICATIONS.
- END OF PRECAST SECTION SHALL NOT HAVE A BELL OR SPIGOT.
- THE APRON END SECTIONS SHOWN SHALL BE CAST-IN-PLACE.
- THE PAY ITEM "REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL" SHALL INCLUDE THE EXCAVATION OF UNSUITABLE MATERIAL FOR A DEPTH TO 1'-6" BELOW THE STRUCTURE FOR A WIDTH OF APPROXIMATELY 7'-8" WITHIN THE LIMITS OF THE CUTOFF WALLS AS SHOWN AND WITHIN THE LIMITS OF THE PROPOSED CAST-IN-PLACE APRON AS SHOWN. THE ACTUAL AMOUNT SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- THE PAY ITEM "POROUS GRANULAR EMBANKMENT SPECIAL" SHALL INCLUDE THE PLACEMENT OF THE CA-1 AND CA-7 AS SHOWN IN THE LONGITUDINAL SECTION. THE WIDTH FOR THE "POROUS GRANULAR EMBANKMENT SPECIAL" SHALL BE APPROXIMATELY 7'-8" WIDE UNDER THE CULVERT. THE "POROUS GRANULAR EMBANKMENT SPECIAL" SHALL BE WITHIN THE LIMITS OF THE TOE WALL AS SHOWN UNDER THE PROPOSED CAST-IN-PLACE APRON. THE ACTUAL AMOUNT SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- CONTRACTOR TO CONFIRM ALL PRECAST CULVERT DIMENSIONS WITH THE SUPPLIER BEFORE STARTING CONSTRUCTION.
- THE BILL OF MATERIAL SHOWN IS FOR INFORMATION ONLY. END SECTIONS WILL BE PAID FOR AS "BOX CULVERT END SECTIONS" PER EACH, SEE SCHEDULE OF QUANTITY SHEETS.

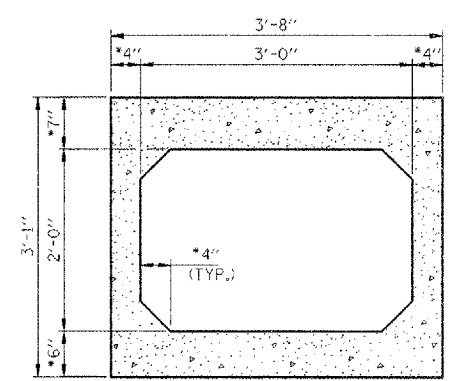
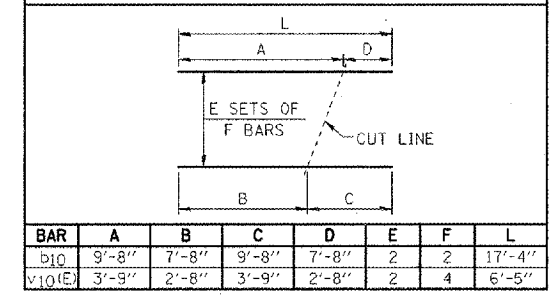
BILL OF MATERIAL
(NOTE: FOR 2 END SECTIONS)

BAR	NO.	SIZE	LENGTH	SHAPE
a10	22	#5	2'-3"	---
b10	4	#5	17'-4"	---
b11	6	#5	10'-7"	---
b12	6	#5	6'-6"	---
d10	22	#5	4'-9"	---
h10	4	#5	7'-6"	---
h11	12	#5	4'-0"	---
u10	8	#5	9'-10"	---
u11	8	#5	1'-4"	---
v10(E)	8	#5	10'-5"	L J
ITEM	UNIT	QUANTITY		
CONCRETE BOX CULVERTS	CU YD	4.8		
REINFORCEMENT BARS	POUND	510		
REINFORCEMENT BARS, EPOXY COATED	POUND	90		

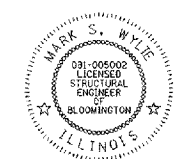
BAR BENDING DIAGRAMS



BAR CUTTING DIAGRAMS



SECTION THRU BARREL
* CONFIRM SLAB & WALL THICKNESS WITH PRECASTER



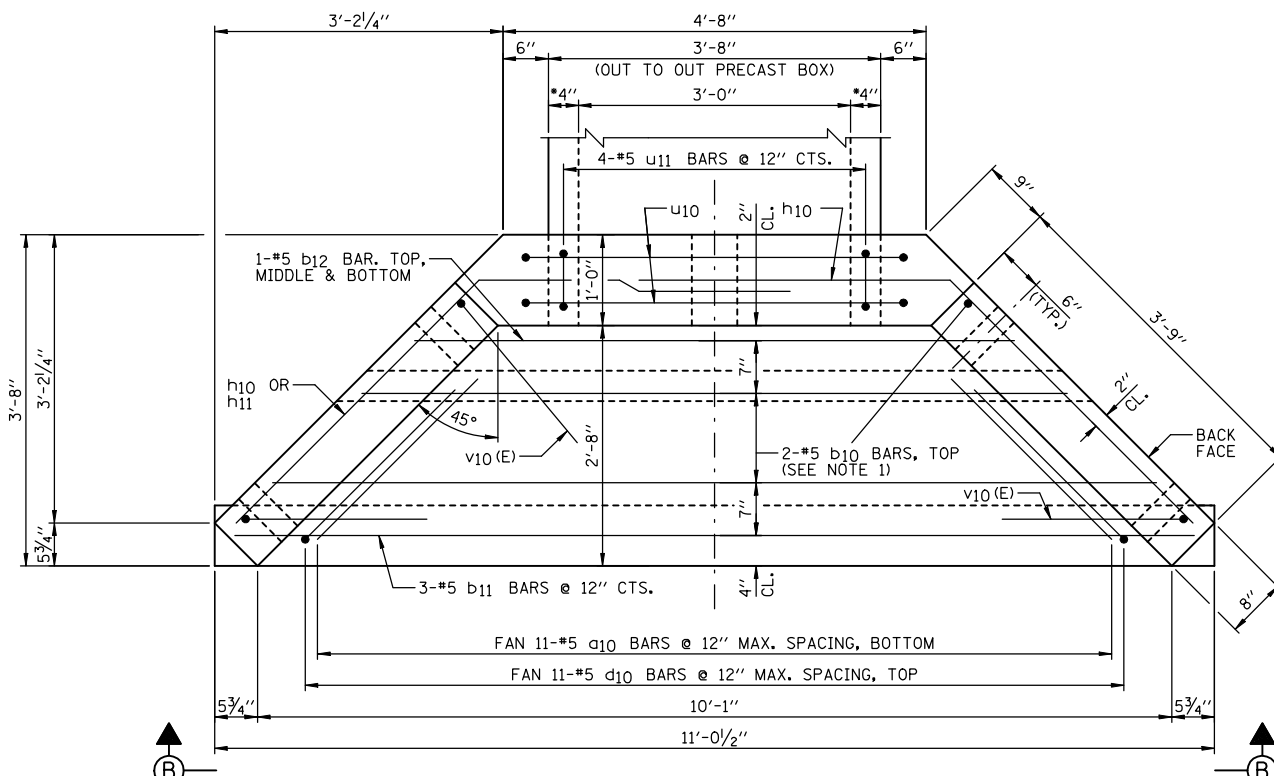
Mark S. Wylie Date 8/15/08
MARK S. WYLIE
ILLINOIS STRUCTURAL ENGINEER
NO. 081-005002
Exp. Date 11/30/08

NOTE:
WORK THIS SHEET WITH SHEET F2.

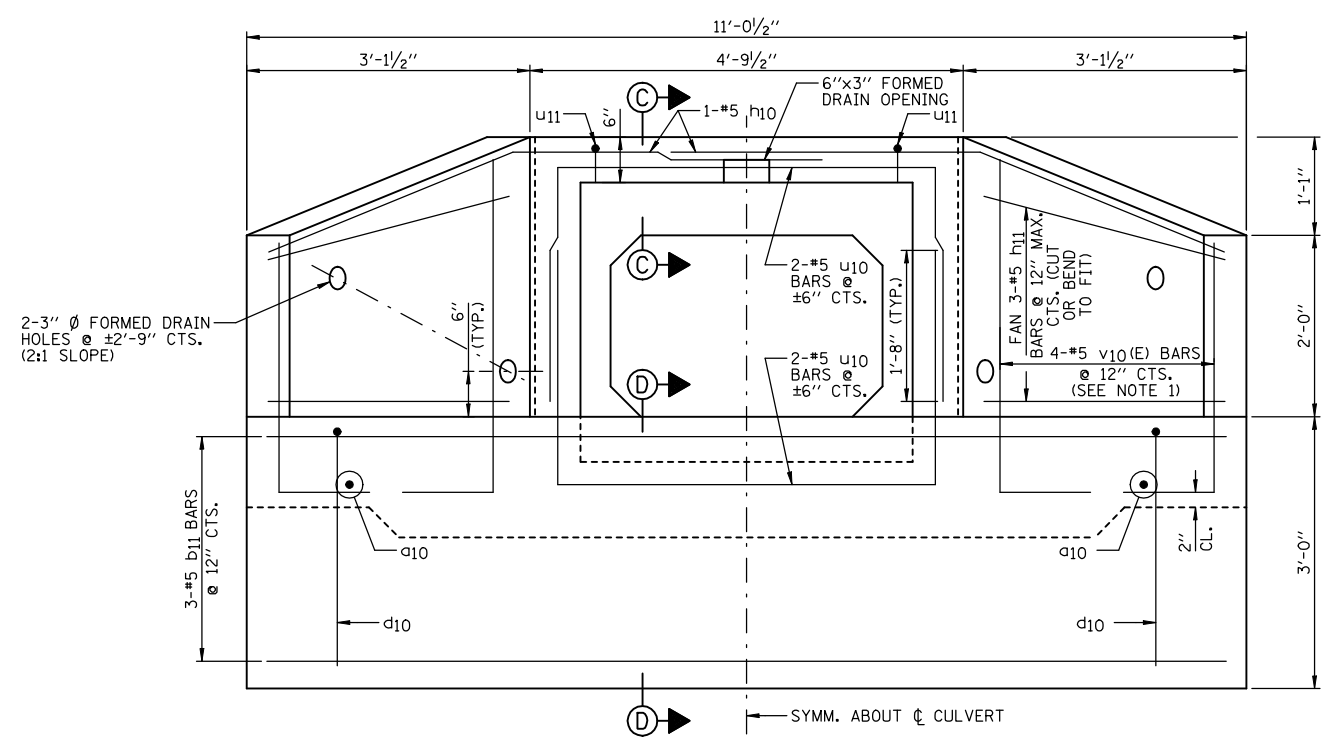
REVISIONS	DATE
NAME	

ILLINOIS DEPARTMENT OF TRANSPORTATION
CULVERT #6 REPLACEMENT
(STA. 281+71.66)
FAP ROUTE 816
ATWOOD-ARTHUR RD
SECTION 6RS-1 & (6BR)BR
DOUGLAS COUNTY
DRAWN BY: DJM
CHECKED BY: MSW
DATE: 11/24/03

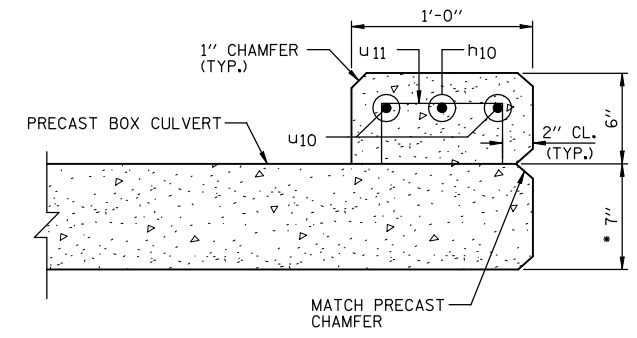
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
B16	GRS-1 & (6BR)BR	DOUGLAS	176	87
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 90711		SHEET NO. F2		
OF 3 SHEETS				



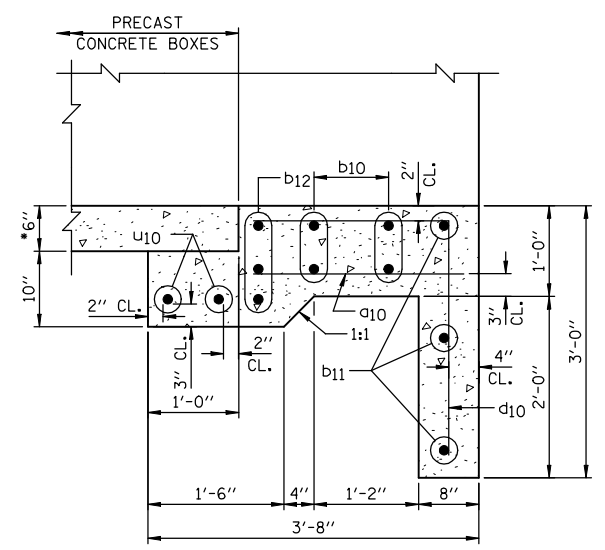
VIEW A-A
 • CONFIRM WALL THICKNESS WITH PRECASTER
 WEST END
 EAST END



END ELEVATION (VIEW B-B)



SECTION C-C
 • CONFIRM SLAB THICKNESS WITH PRECASTER



SECTION D-D
 • CONFIRM SLAB THICKNESS WITH PRECASTER

- NOTES:**
- 1.) ORDER b10 & v10(E) BARS FULL LENGTH. CUT ACCORDING TO BAR CUTTING DIAGRAM ON SHEET F1. USE REMAINDER OF b10 BARS IN BOTTOM OF SLAB & REMAINDER OF v10(E) BARS IN OPPOSITE WINGWALL.
 - 2.) MINIMUM BAR LAP: #5 = 1'-8"
 - 3.) WORK THIS SHEET WITH SHEET F1.
 - 4.) FOR LOCATION OF VIEW A-A SEE SHEET F1.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CULVERT #6 REPLACEMENT
 (STA. 281+71.66)
 FAP ROUTE 816
 ATWOOD-ARTHUR RD
 SECTION 6RS-1 & (6BR)BR
 DOUGLAS COUNTY
 DRAWN BY: DJM
 CHECKED BY: MSW
 DATE: 11/24/03



SOIL BORING LOG

Page 1 of 1

Date 10/22/02

ROUTE FAP Route 816 (000E) DESCRIPTION 3.5 Miles North Of Arthur LOGGED BY KWW
SECTION 6RS-1 LOCATION SW, SEC. 6, TWP. 15N, RNG. 7E, 3rd PM
COUNTY Douglas DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	Station	DEPTH (ft)	BLOW (6")	UCS (tsf)	MOIST (%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After
	281+71.66					Dry	671.2				
BORING NO. 9 NE Boring	Station 281+75										
	Offset 14.0 ft Rt.										
	Ground Surface Elev. 674.7										
Black Silty Clay											
			3								
	670.2		3	1.9	28						
Brown Gray Mottled Silty Clay			5	B							
			2								
			2	0.9	25						
	666.7		2	B							
Brown Silty Clay Loam			1								
			1	0.5	31						
			1	B							
	662.7		1								
Gray Silty Clay			1								
			2	1.0	22						
			2	B							
	659.7		2								
End of Boring											

S:\SOILBORING-180UGLA-180711.GPJ 10/25/02 10:18:24 AM

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

Page 1 of 1

Date 10/22/02

ROUTE FAP Route 816 (000E) DESCRIPTION 3.5 Miles North Of Arthur LOGGED BY KWW
SECTION 6RS-1 LOCATION SW, SEC. 6, TWP. 15N, RNG. 7E, 3rd PM
COUNTY Douglas DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	Station	DEPTH (ft)	BLOW (6")	UCS (tsf)	MOIST (%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After
	281+71.66					Dry	671.2				
BORING NO. 10 NW Boring	Station 281+75										
	Offset 14.0 ft Lt.										
	Ground Surface Elev. 674.6										
Black Silty Clay											
			1								
	670.1		2	1.9	27						
Brown Gray Mottled Silty Clay			3	B							
			1								
			1	0.9	28						
			2	B							
	664.6		1								
Brown Silty Clay			1	0.6	29						
			1	B							
	662.6		2								
Gray Clay Loam Till			6	5.4	20						
			2								
			4	5.6							
			7	B							
	659.6										
End of Boring											

S:\SOILBORING-180UGLA-180711.GPJ 10/25/02 10:18:24 AM

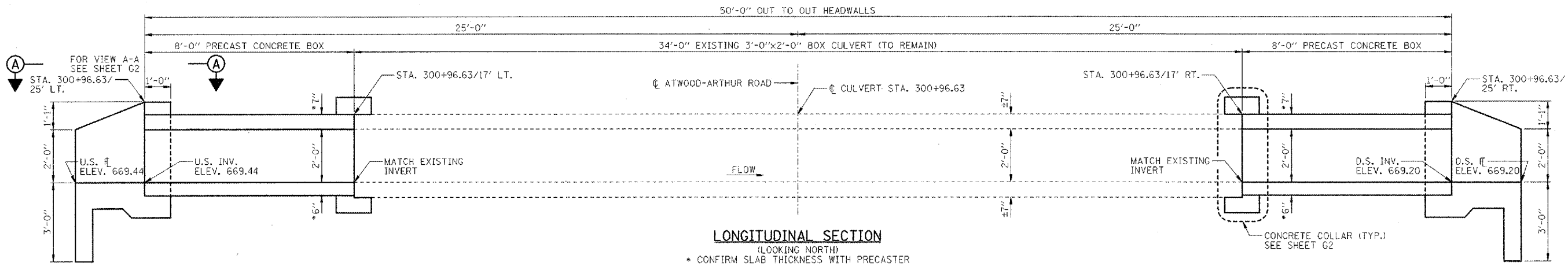
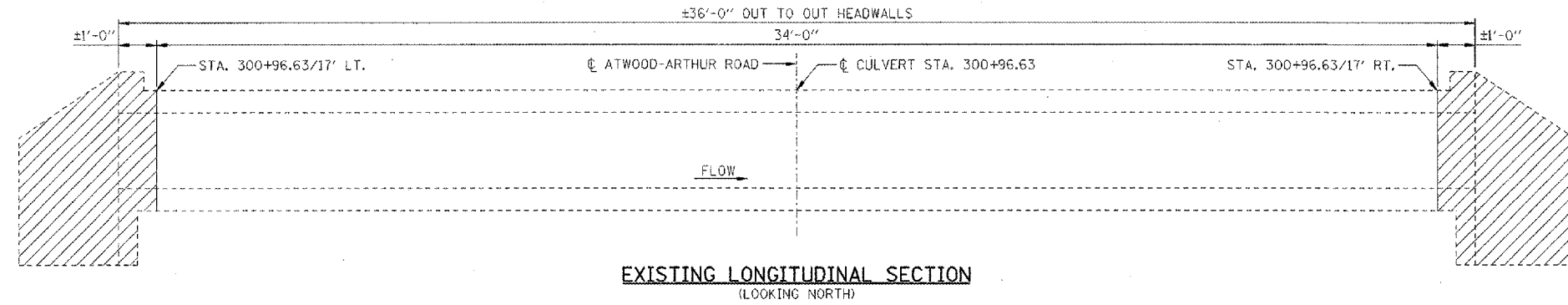
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BORING LOGS CULVERT #6
(STA. 281+71.66)
FAP ROUTE 816
ATWOOD-ARTHUR RD
SECTION 6RS-1 & (6BR)BR
DOUGLAS COUNTY

DRAWN BY: DJM
CHECKED BY: MSW
DATE: 11/24/03

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6RS-1 & (6BR)BR	DOUGLAS	176	89
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 90711		SHEET NO. 01		
OF 2 SHEETS				



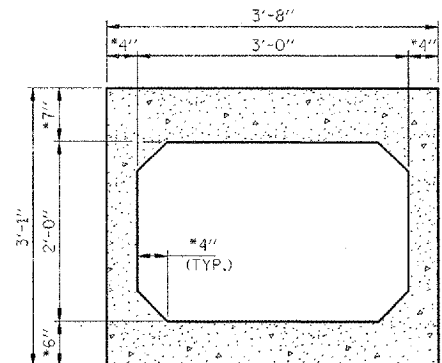
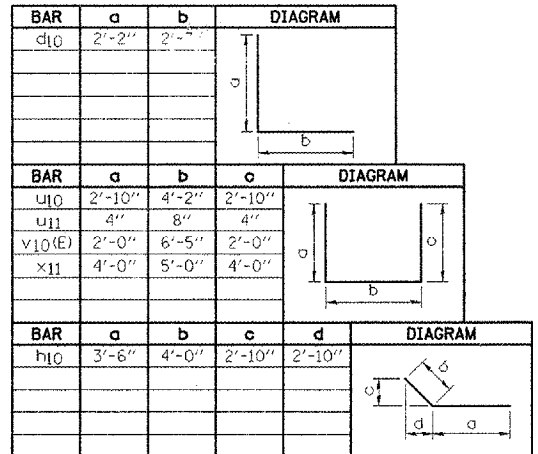
GENERAL NOTES:

- CAST-IN-PLACE CONCRETE EXPOSED EDGES SHALL BE BEVELED 3/4 IN.
- CLASS SI CONCRETE SHALL BE USED THROUGHOUT (CONCRETE STRENGTH, f'c=3500 psi @ 28 DAYS).
- REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 Gr 60 (IL MODIFIED). SEE SPECIAL PROVISIONS.
- REINFORCEMENT BARS DENOTED (E) SHALL BE EPOXY COATED.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DIVERT THE STREAM FLOW DURING CONSTRUCTION IN ORDER TO KEEP THE CONSTRUCTION AREAS FREE OF WATER. THE METHOD OF WATER DIVERSION SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER AND THE COST SHALL BE INCLUDED WITH THE COST OF "PRECAST CONCRETE BOX CULVERTS, 3'x2'".
- STRUCTURAL SEAL IS FOR CAST-IN-PLACE PORTION OF STRUCTURE ONLY.
- THE PRECAST CONCRETE CULVERT SECTIONS SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH AASHTO M259 (ASTM C789).
- FOR BACKFILLING AND EMBANKMENT, SEE STANDARD SPECIFICATIONS.
- END OF PRECAST SECTION SHALL NOT HAVE A BELL OR SPIGOT.
- THE APRON END SECTIONS SHOWN SHALL BE CAST-IN-PLACE.
- PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURE HAVE BEEN TAKEN FROM FIELD MEASUREMENTS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATION SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
- CONTRACTOR TO CONFIRM ALL PRECAST CULVERT DIMENSIONS WITH THE SUPPLIER BEFORE STARTING CONSTRUCTION.
- CONCRETE COLLAR QUANTITIES INCLUDED WITH CONCRETE BOX CULVERTS AND REINFORCEMENT BARS.
- COST TO REMOVE THE HATCHED PORTION OF THE EXISTING HEADWALLS AND WINGWALLS TO FACILITATE CONSTRUCTION OF COLLAR AND/OR PRECAST CONCRETE BOX CULVERTS IS INCLUDED WITH "PRECAST CONCRETE BOX CULVERTS, 3'x2'".
- THE BILL OF MATERIAL SHOWN IS FOR INFORMATION ONLY. END SECTIONS WILL BE PAID FOR AS "BOX CULVERT END SECTIONS" PER EACH. THE "CONCRETE COLLAR" WILL BE PAID FOR SEPARATELY, SEE SCHEDULE OF QUANTITY SHEETS.

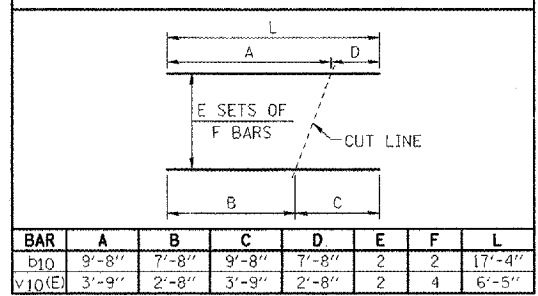
BILL OF MATERIAL
(NOTE: FOR 2 END SECTIONS & CONCRETE COLLAR)

BAR	NO.	SIZE	LENGTH	SHAPE
d10	22	#5	2'-3"	—
b10	4	#5	17'-4"	—
b11	6	#5	10'-7"	—
b12	6	#5	6'-6"	—
d10	22	#5	4'-9"	—
h10	4	#5	7'-6"	—
h11	12	#5	4'-0"	—
u10	8	#5	9'-10"	—
u11	8	#5	1'-4"	—
v10(E)	8	#5	10'-5"	L J
x10	44	#4	1'-0"	—
x11	12	#4	13'-0"	—
ITEM	UNIT	QUANTITY		
CONCRETE BOX CULVERTS	CU YD	4.8		
REINFORCEMENT BARS	POUND	650		
REINFORCEMENT BARS, EPOXY COATED	POUND	90		
CONCRETE COLLAR	CU YD	1.2		

BAR BENDING DIAGRAMS



BAR CUTTING DIAGRAMS



Mark S. Wylie Date 8/15/08
 MARK S. WYLIE
 ILLINOIS STRUCTURAL ENGINEER
 NO. 081-005002
 Exp. Date 11/30/08

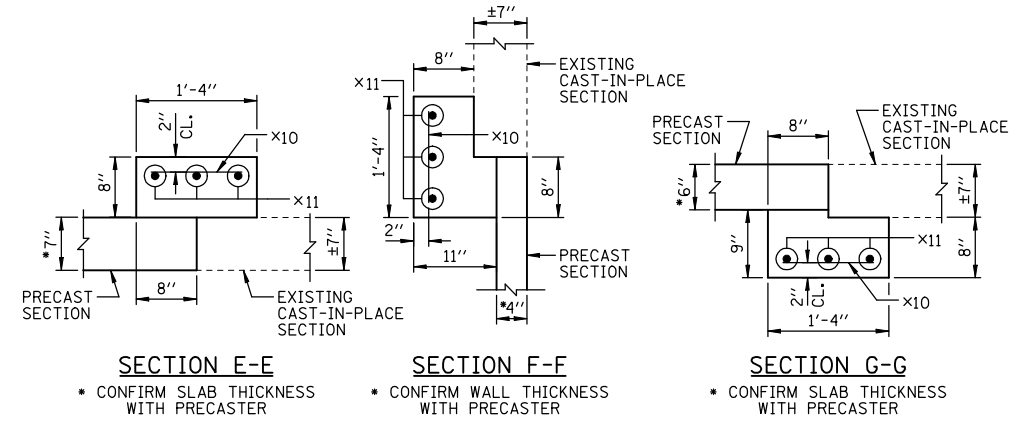
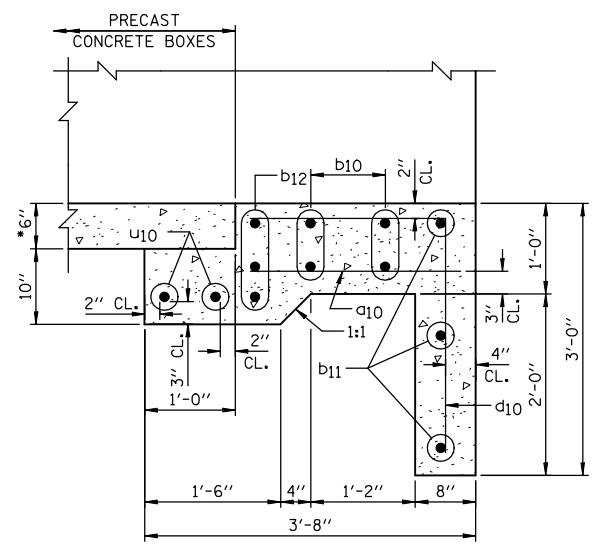
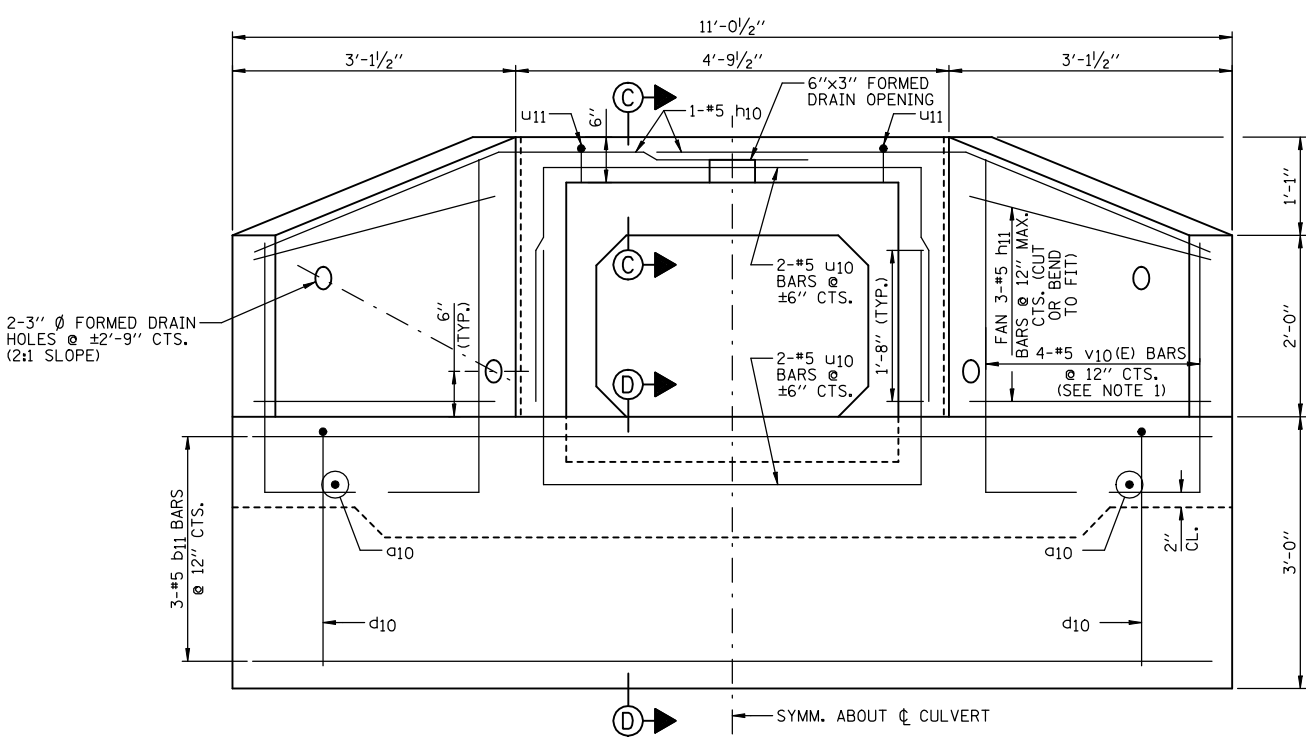
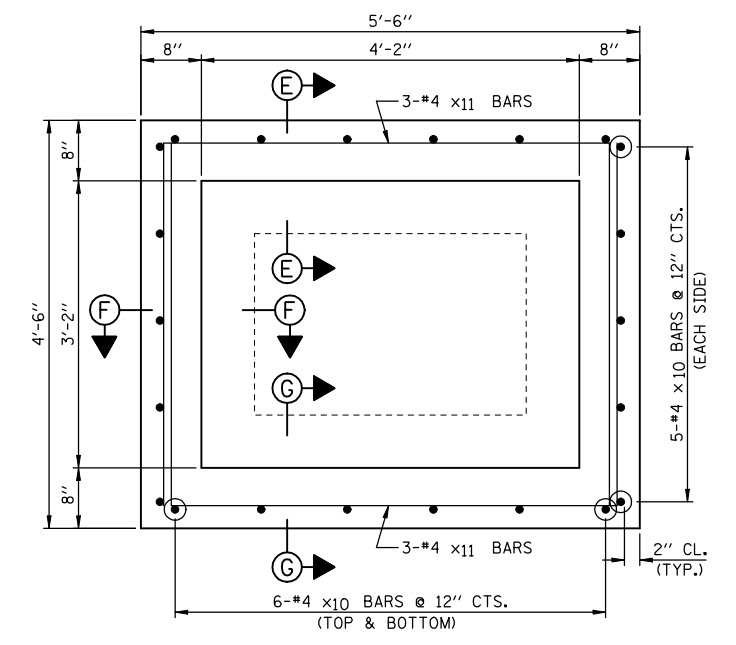
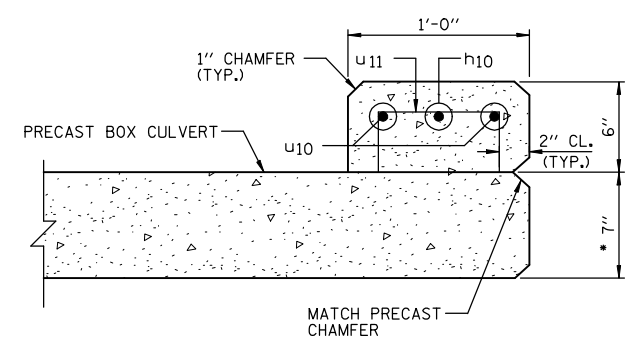
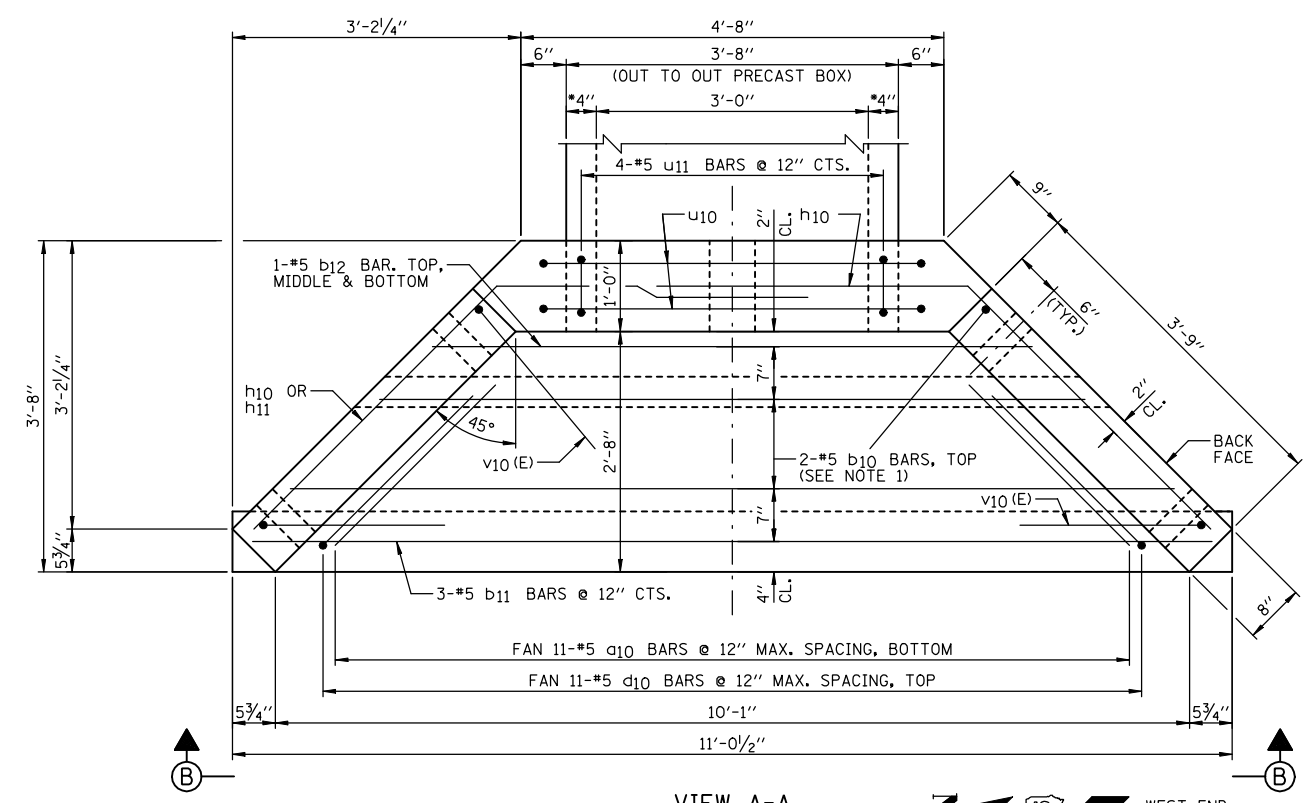
NOTE:
 WORK THIS SHEET WITH SHEET G2.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CULVERT #7 EXTENSION
 (STA. 300+96.63)
 FAP ROUTE 816
 ATWOOD-ARTHUR RD
 SECTION 6RS-1 & (6BR)BR
 DOUGLAS COUNTY
 DRAWN BY: DJM
 CHECKED BY: MSW
 DATE: 11/24/03

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
B16	GRS-1 & (6BR)BR	DOUGLAS	176	90
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 90711		SHEET NO. G2		

OF 2 SHEETS



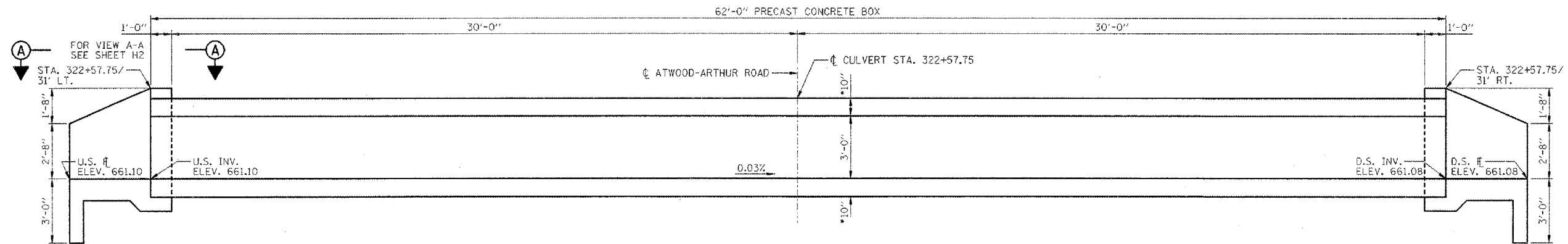
- NOTES:**
- 1.) ORDER b₁₀ & v₁₀(E) BARS FULL LENGTH. CUT ACCORDING TO BAR CUTTING DIAGRAM ON SHEET G1. USE REMAINDER OF b₁₀ BARS IN BOTTOM OF SLAB & REMAINDER OF v₁₀(E) BARS IN OPPOSITE WINGWALL.
 - 2.) MINIMUM BAR LAP: #5 = 1'-8"
 - 3.) WORK THIS SHEET WITH SHEET G1.
 - 4.) FOR LOCATION OF VIEW A-A SEE SHEET G1.
 - 5.) FOR LOCATION OF CONCRETE COLLARS SEE SHEET G1.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CULVERT #7 EXTENSION
 (STA. 300+96.63)
 FAP ROUTE 816
 ATWOOD-ARTHUR RD
 SECTION 6RS-1 & (6BR)BR
 DOUGLAS COUNTY

DATE: 11/24/03
 DRAWN BY: DJM
 CHECKED BY: MSW

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6RS-1 & 6BR/BR	DOUGLAS	176	91
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 90711		SHEET NO. H1		
OF 3 SHEETS				



LONGITUDINAL SECTION
(LOOKING NORTH)

* CONFIRM SLAB THICKNESS WITH PRECASTER

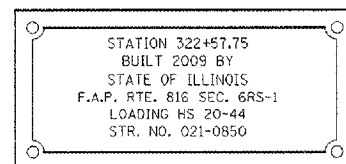
GENERAL NOTES:

- 1.) CAST-IN-PLACE CONCRETE EXPOSED EDGES SHALL BE BEVELED 3/4 IN.
- 2.) CLASS S1 CONCRETE SHALL BE USED THROUGHOUT (CONCRETE STRENGTH, f'c=3500 psi @ 28 DAYS).
- 3.) REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 Gr 60 (IL MODIFIED). SEE SPECIAL PROVISIONS.
- 4.) REINFORCEMENT BARS DENOTED (E) SHALL BE EPOXY COATED.
- 5.) IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DIVERT THE STREAM FLOW DURING CONSTRUCTION IN ORDER TO KEEP THE CONSTRUCTION AREAS FREE OF WATER. THE METHOD OF WATER DIVERSION SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER AND THE COST SHALL BE INCLUDED WITH THE COST OF "PRECAST CONCRETE BOX CULVERTS, 10'x3' (M273)".
- 6.) SEE SHEET H3 FOR BORING DATA.
- 7.) STRUCTURAL SEAL IS FOR CAST-IN-PLACE PORTION OF STRUCTURE ONLY.
- 8.) THE PRECAST CONCRETE CULVERT SECTIONS SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH AASHTO M273 (ASTM C850).
- 9.) FOR BACKFILLING AND EMBANKMENT, SEE STANDARD SPECIFICATIONS.
- 10.) END OF PRECAST SECTION SHALL NOT HAVE A BELL OR SPIGOT.
- 11.) THE APRON END SECTIONS SHOWN SHALL BE CAST-IN-PLACE.
- 12.) CONTRACTOR TO CONFIRM ALL PRECAST CULVERT DIMENSIONS WITH THE SUPPLIER BEFORE STARTING CONSTRUCTION.
- 13.) THE BILL OF MATERIAL SHOWN IS FOR INFORMATION ONLY. END SECTIONS WILL BE PAID FOR AS "BOX CULVERT END SECTIONS" PER EACH, SEE SCHEDULE OF QUANTITY SHEETS.

BILL OF MATERIAL
(NOTE: FOR 2 END SECTIONS)

BAR	NO.	SIZE	LENGTH	SHAPE
d30	42	#5	3'-6"	—
b30	6	#5	35'-10"	—
b31	6	#5	21'-0"	—
b32	6	#5	14'-6"	—
d30	42	#5	5'-11"	—
h30	4	#5	13'-4"	—
h31	16	#5	5'-8"	—
u30	8	#5	19'-4"	—
u31	24	#5	1'-4"	—
v30(E)	12	#5	12'-4"	—
ITEM	UNIT	QUANTITY		
* CONCRETE BOX CULVERTS	CU YD	11.3		
* REINFORCEMENT BARS	POUND	1200		
* REINFORCEMENT BARS, EPOXY COATED	POUND	150		
* NAME PLATES	EACH	1		

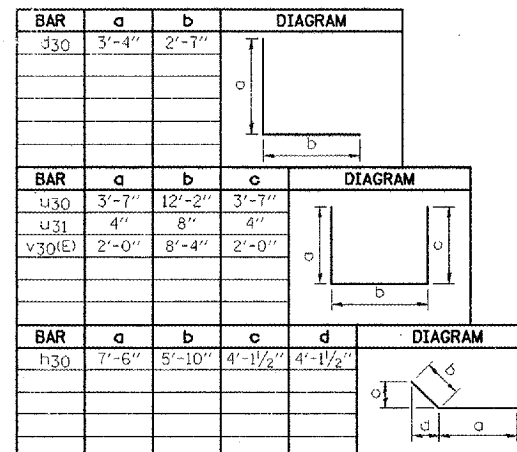
* FOR 2 END SECTIONS



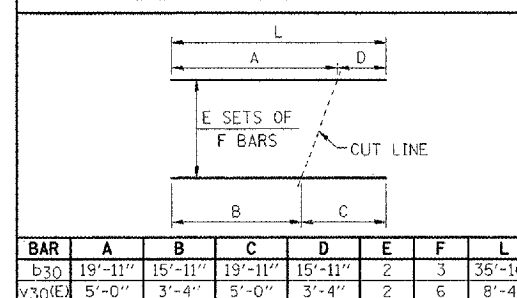
NAME PLATE

* See Highway Standard 515001-02 for dimensions and placement.
* Name Plate will be paid for at the contract unit price per "EACH" for "NAME PLATES".

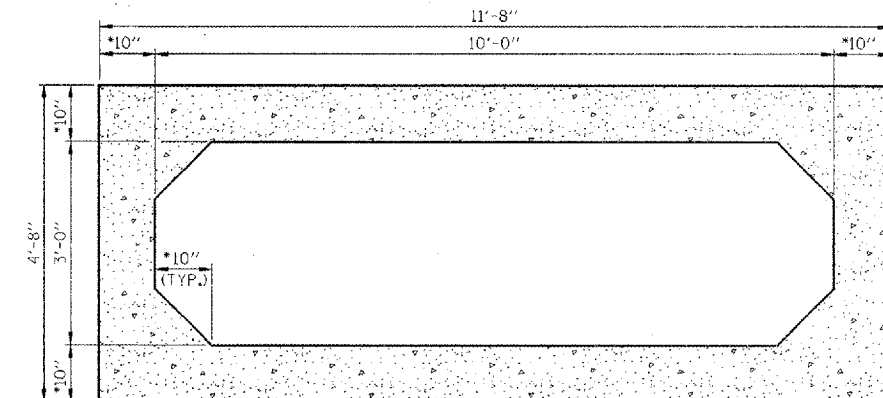
BAR BENDING DIAGRAMS



BAR CUTTING DIAGRAMS



* CUT LENGTH OF v30(E) BARS DOES NOT INCLUDE THE 2'-0" BENT LEGS.



SECTION THRU BARREL

* CONFIRM SLAB & WALL THICKNESS WITH PRECASTER



Mark S. Wylie Date 8/15/08
MARK S. WYLIE
ILLINOIS STRUCTURAL ENGINEER
NO. 081-005002
Exp. Date 11/30/08

NOTE:

WORK THIS SHEET WITH SHEET H2.

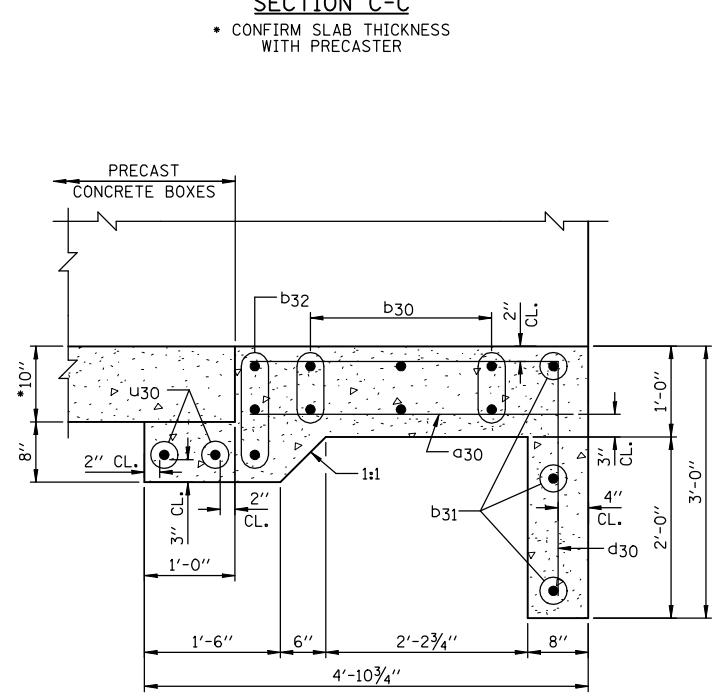
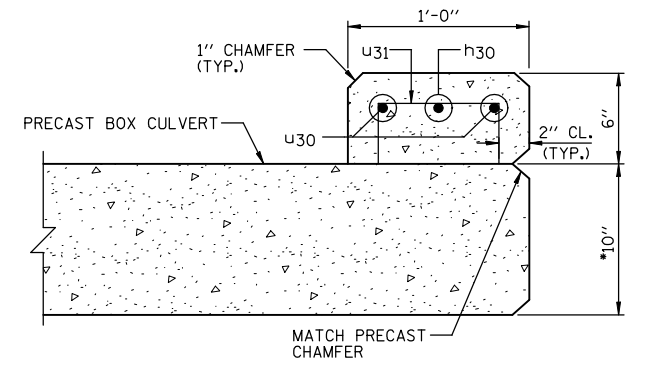
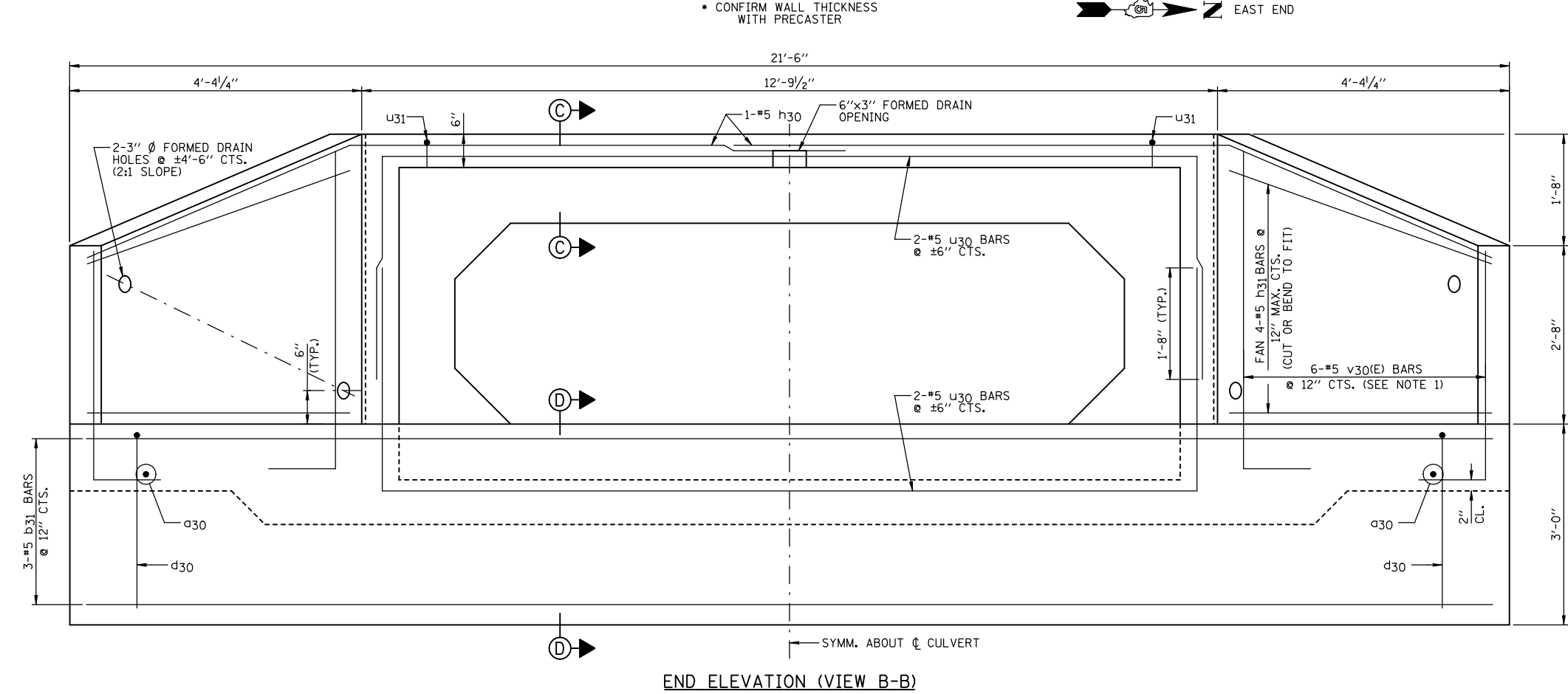
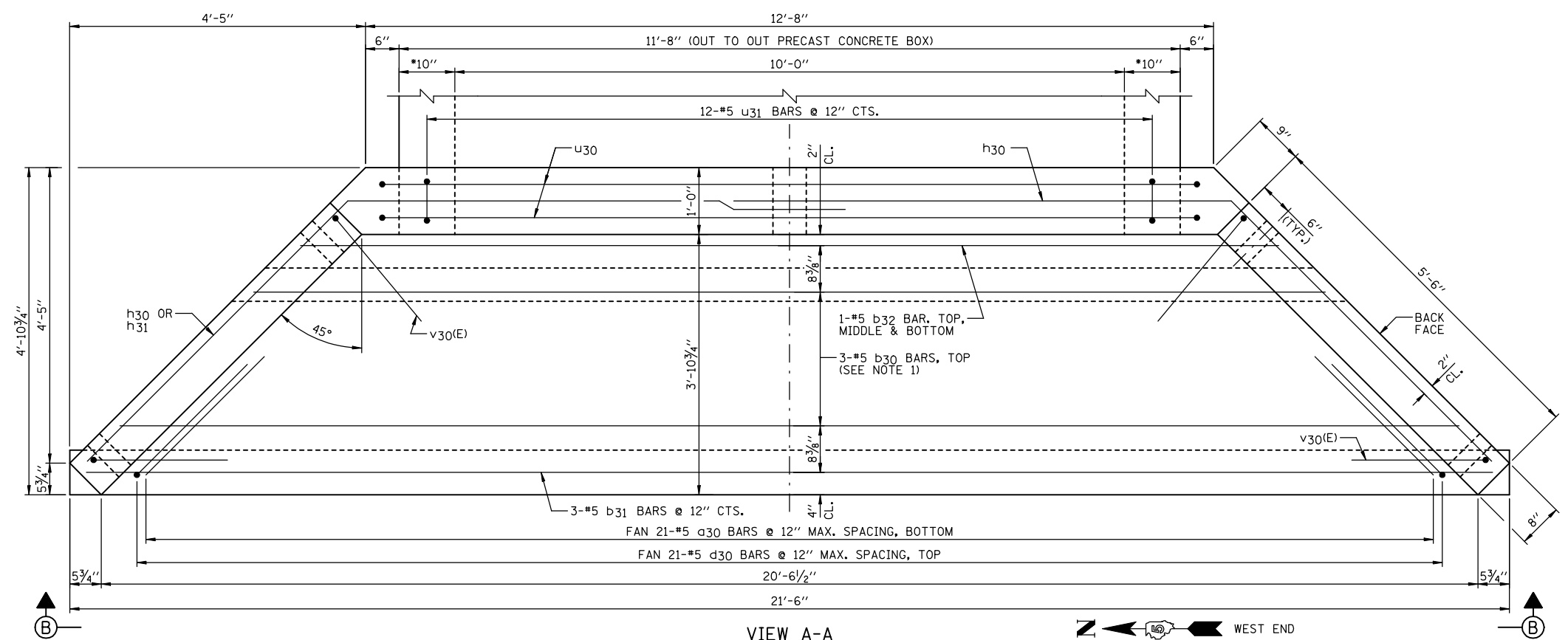
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CULVERT #8 REPLACEMENT
(STA. 322+57.75)
FAP ROUTE 816
ATWOOD-ARTHUR RD
SECTION 6RS-1 & (6BR)BR
DOUGLAS COUNTY

PR. STR. 021-8050
DATE: 11/24/03

DRAWN BY: DJM
CHECKED BY: MSW

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6RS-1 & (6BR)R	DOUGLAS	176	92
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 90711		SHEET NO. H2		
OF 3 SHEETS				



- NOTES:**
- 1.) ORDER b30 & v30(E) BARS FULL LENGTH. CUT ACCORDING TO BAR CUTTING DIAGRAM ON SHEET H1. USE REMAINDER OF b30 BARS IN BOTTOM OF SLAB & REMAINDER OF v30(E) BARS IN OPPOSITE WINGWALL.
 - 2.) MINIMUM BAR LAP: #5 = 1'-8"
 - 3.) WORK THIS SHEET WITH SHEET H1.
 - 4.) FOR LOCATION OF VIEW A-A SEE SHEET H1.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CULVERT #8 REPLACEMENT
 (STA. 322+57.75)
 FAP ROUTE 816
 ATWOOD-ARTHUR RD
 SECTION 6RS-1 & (6BR)R
 DOUGLAS COUNTY
 PR. STR. 021-8050
 DATE: 11/24/03
 DRAWN BY: DJM
 CHECKED BY: MSW



Illinois Department of Transportation
Division of Highways
IDOT - Dist 5

SOIL BORING LOG

Page 1 of 1

Date 10/22/02

ROUTE FAP Route 816 (000E) DESCRIPTION 5.5 Miles North of Arthur LOGGED BY KWW

SECTION 6RS-1 LOCATION NW, SEC. 6, TWP. 15N, RNG. 7E, 3rd PM

COUNTY Douglas DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 322+58
Station 322+58
BORING NO. 13 NE Boring
Station 322+61
Offset 14.0 ft Rt.
Ground Surface Elev. 665.4 ft

Surface Water Elev. Dry ft
Stream Bed Elev. 661.0 ft
Groundwater Elev.:
First Encounter _____ ft
Upon Completion _____ ft
After _____ Hrs. _____ ft

SOIL DESCRIPTION	DEPTH (ft)	BLOWS (6")	UCS (tsf)	MOISTURE (%)
Black Silty Clay	1			
	2	2.1	26	
	3	B		
660.4	-5			
Brown/Gray Mottled Silty Clay	1			
	2	1.0	26	
	2	B		
658.4				
Brown Clay Loam Till	1			
	3	3.1	12	
	4	B		
	-10			
654.4				
Gray Clay Loam Till	1			
	3	5.0	12	
	5	B		
	1			
	4	4.7		
	8	B		
650.4	-15			
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)



Illinois Department of Transportation
Division of Highways
IDOT - Dist 5

SOIL BORING LOG

Page 1 of 1

Date 10/22/02

ROUTE FAP Route 816 (000E) DESCRIPTION 5.5 Miles North of Arthur LOGGED BY KWW

SECTION 6RS-1 LOCATION NW, SEC. 6, TWP. 15N, RNG. 7E, 3rd PM

COUNTY Douglas DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 322+58
Station 322+58
BORING NO. 14 NW Boring
Station 322+61
Offset 14.0 ft Lt.
Ground Surface Elev. 665.7 ft

Surface Water Elev. Dry ft
Stream Bed Elev. 661.0 ft
Groundwater Elev.:
First Encounter _____ ft
Upon Completion _____ ft
After _____ Hrs. _____ ft

SOIL DESCRIPTION	DEPTH (ft)	BLOWS (6")	UCS (tsf)	MOISTURE (%)
Brown Silty Clay	1			
	2	1.9	27	
	4	B		
660.7	-5			
Brown/Gray Mottled Silty Clay	1			
	2	0.9	27	
	2	B		
657.7				
Brown Clay Loam Till	1			
	2	1.2	17	
	3	B		
	-10			
654.7				
Gray Clay Loam Till	1			
	2	24.0	12	
	3	B		
	1			
	4	3.3	12	
	5	B		
650.7	-15			
End of Boring				
	-20			

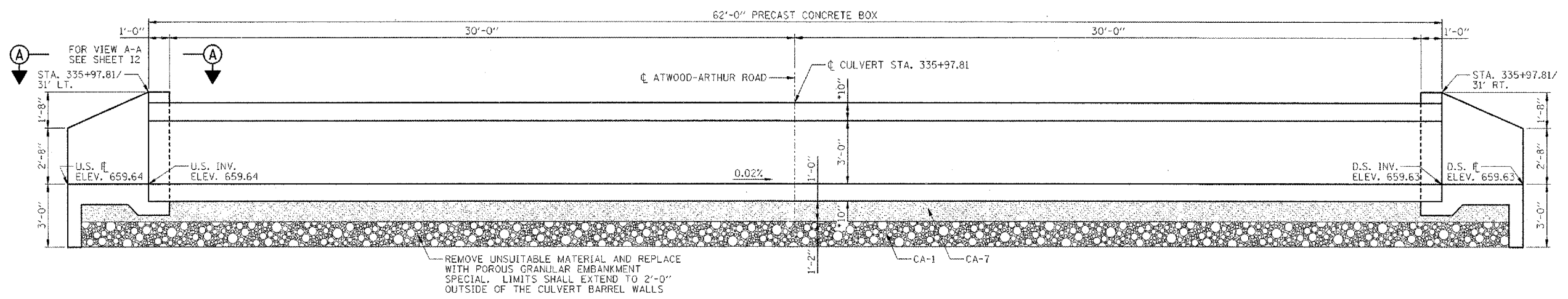
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BORING LOGS CULVERT #8
(STA. 322+57.75)
FAP ROUTE 816
ATWOOD-ARTHUR RD
SECTION 6RS-1 & (6BR)BR
DOUGLAS COUNTY

DRAWN BY: DJM
CHECKED BY: MSW
DATE: 11/24/03

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6RS-1 & 6BR/BR	DOUGLAS	176	94
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 90711		SHEET NO. 11		
OF 3 SHEETS				



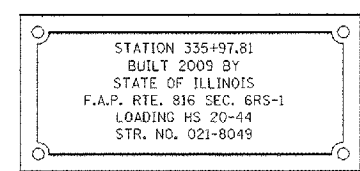
LONGITUDINAL SECTION
(LOOKING NORTH)
* CONFIRM SLAB THICKNESS WITH PRECASTER

GENERAL NOTES:

- 1.) CAST-IN-PLACE CONCRETE EXPOSED EDGES SHALL BE BEVELED 3/4 IN.
- 2.) CLASS SI CONCRETE SHALL BE USED THROUGHOUT (CONCRETE STRENGTH, f'c=3500 psi @ 28 DAYS).
- 3.) REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 OR 60 (IL MODIFIED). SEE SPECIAL PROVISIONS.
- 4.) REINFORCEMENT BARS DENOTED (E) SHALL BE EPOXY COATED.
- 5.) IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DIVERT THE STREAM FLOW DURING CONSTRUCTION IN ORDER TO KEEP THE CONSTRUCTION AREAS FREE OF WATER. THE METHOD OF WATER DIVERSION SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER AND THE COST SHALL BE INCLUDED WITH THE COST OF "PRECAST CONCRETE BOX CULVERTS, 10'x3' (M273)".
- 6.) SEE SHEET 13 FOR BORING DATA.
- 7.) STRUCTURAL SEAL IS FOR CAST-IN-PLACE PORTION OF STRUCTURE ONLY.
- 8.) THE PRECAST CONCRETE CULVERT SECTIONS SHALL BE DESIGNED AND MANUFACTURED IN ACCORDANCE WITH AASHTO M273 (ASTM C850).
- 9.) FOR BACKFILLING AND EMBANKMENT, SEE STANDARD SPECIFICATIONS.
- 10.) END OF PRECAST SECTION SHALL NOT HAVE A BELL OR SPIGOT.
- 11.) THE APRON END SECTIONS SHOWN SHALL BE CAST-IN-PLACE.
- 12.) THE PAY ITEM "REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL" SHALL INCLUDE THE EXCAVATION OF UNSUITABLE MATERIAL FOR A DEPTH TO 2'-2" BELOW THE STRUCTURE FOR A WIDTH OF APPROXIMATELY 15'-8" WITHIN THE LIMITS OF THE CUTOFF WALLS AS SHOWN AND WITHIN THE LIMITS OF THE PROPOSED CAST-IN-PLACE APRON AS SHOWN. THE ACTUAL AMOUNT SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 13.) THE PAY ITEM "POROUS GRANULAR EMBANKMENT SPECIAL" SHALL INCLUDE THE PLACEMENT OF THE CA-1 AND CA-7 AS SHOWN IN THE LONGITUDINAL SECTION. THE WIDTH FOR THE "POROUS GRANULAR EMBANKMENT SPECIAL" SHALL BE APPROXIMATELY 15'-8" WIDE UNDER THE CULVERT. THE "POROUS GRANULAR EMBANKMENT SPECIAL" SHALL BE WITHIN THE LIMITS OF THE TOE WALL AS SHOWN UNDER THE PROPOSED CAST-IN-PLACE APRON. THE ACTUAL AMOUNT SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 14.) CONTRACTOR TO CONFIRM ALL PRECAST CULVERT DIMENSIONS WITH THE SUPPLIER BEFORE STARTING CONSTRUCTION.
- 15.) THE BILL OF MATERIAL SHOWN IS FOR INFORMATION ONLY. END SECTIONS WILL BE PAID FOR AS "BOX CULVERT END SECTIONS" PER EACH. SEE SCHEDULE OF QUANTITY SHEETS.

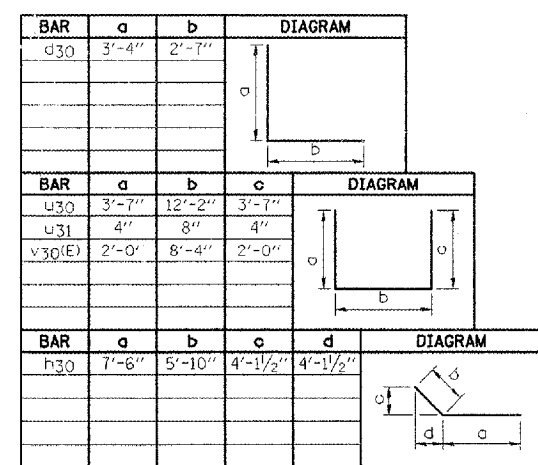
BILL OF MATERIAL
(NOTE: FOR 2 END SECTIONS)

BAR	NO.	SIZE	LENGTH	SHAPE
a30	42	#5	3'-6"	—
b30	6	#5	35'-10"	—
b31	6	#5	21'-0"	—
b32	6	#5	14'-6"	—
d30	42	#5	5'-11"	—
h30	4	#5	13'-4"	—
h31	16	#5	5'-8"	—
u30	8	#5	19'-4"	—
u31	24	#5	1'-4"	—
v30(E)	12	#5	12'-4"	L J
ITEM	UNIT	QUANTITY		
CONCRETE BOX CULVERTS	CU YD	11.3		
REINFORCEMENT BARS	POUND	1200		
REINFORCEMENT BARS, EPOXY COATED	POUND	150		
NAME PLATES	EACH	1		

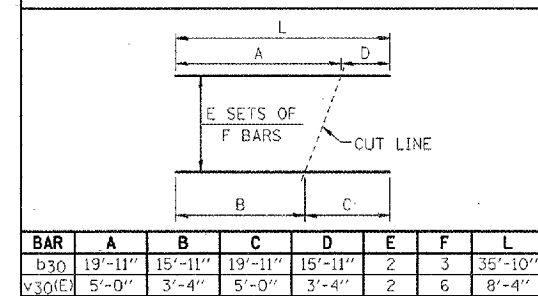


NAME PLATE
* See Highway Standard 515001-02 for dimensions and placement.
* Name Plate will be paid for at the contract unit price per "EACH" for "NAME PLATES".

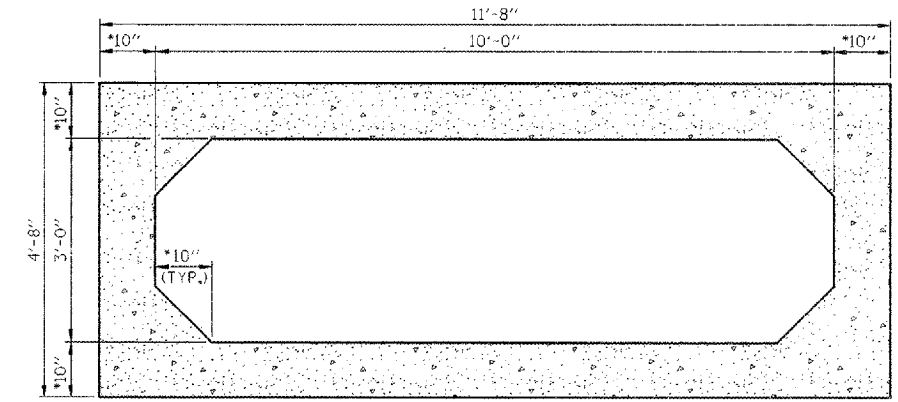
BAR BENDING DIAGRAMS



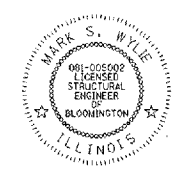
BAR CUTTING DIAGRAMS



* CUT LENGTH OF v30(E) BARS DOES NOT INCLUDE THE 2'-0" BENT LEGS.



SECTION THRU BARREL
* CONFIRM SLAB & WALL THICKNESS WITH PRECASTER



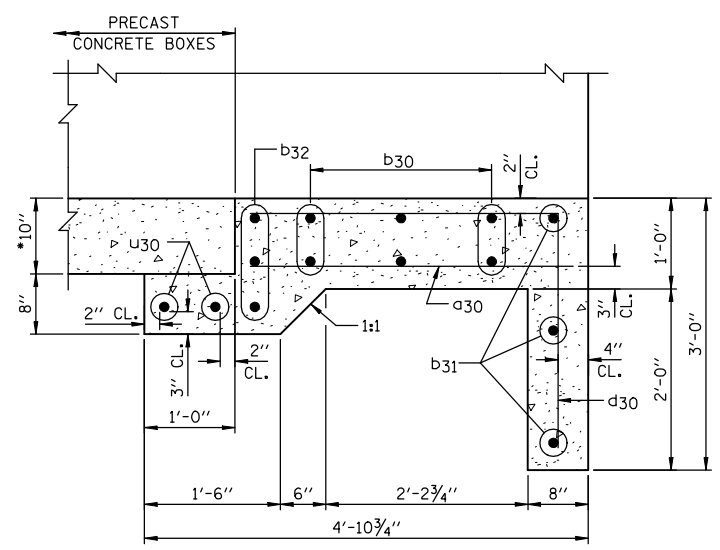
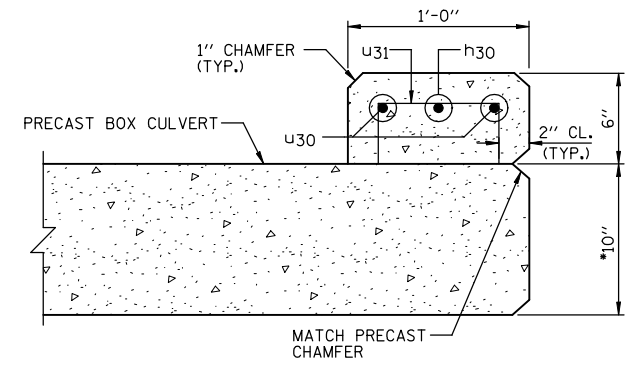
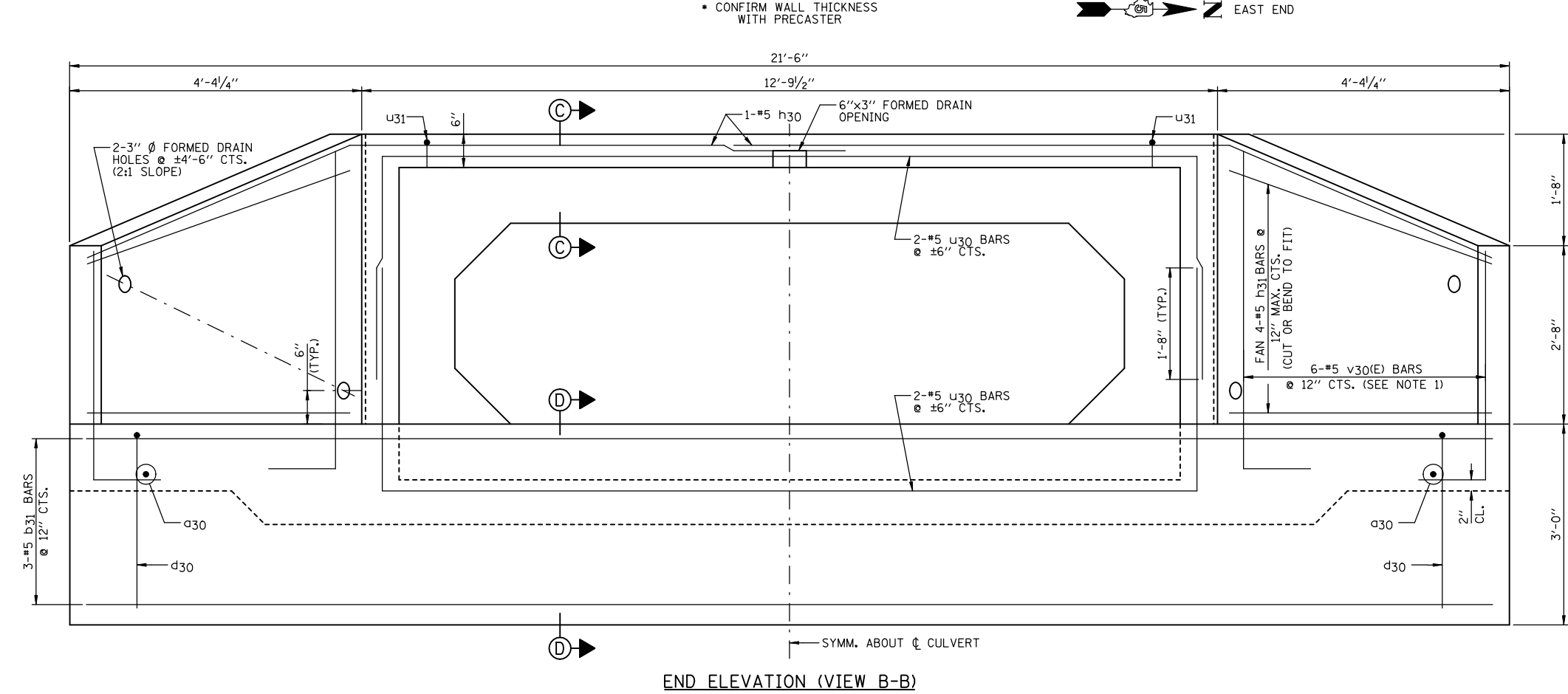
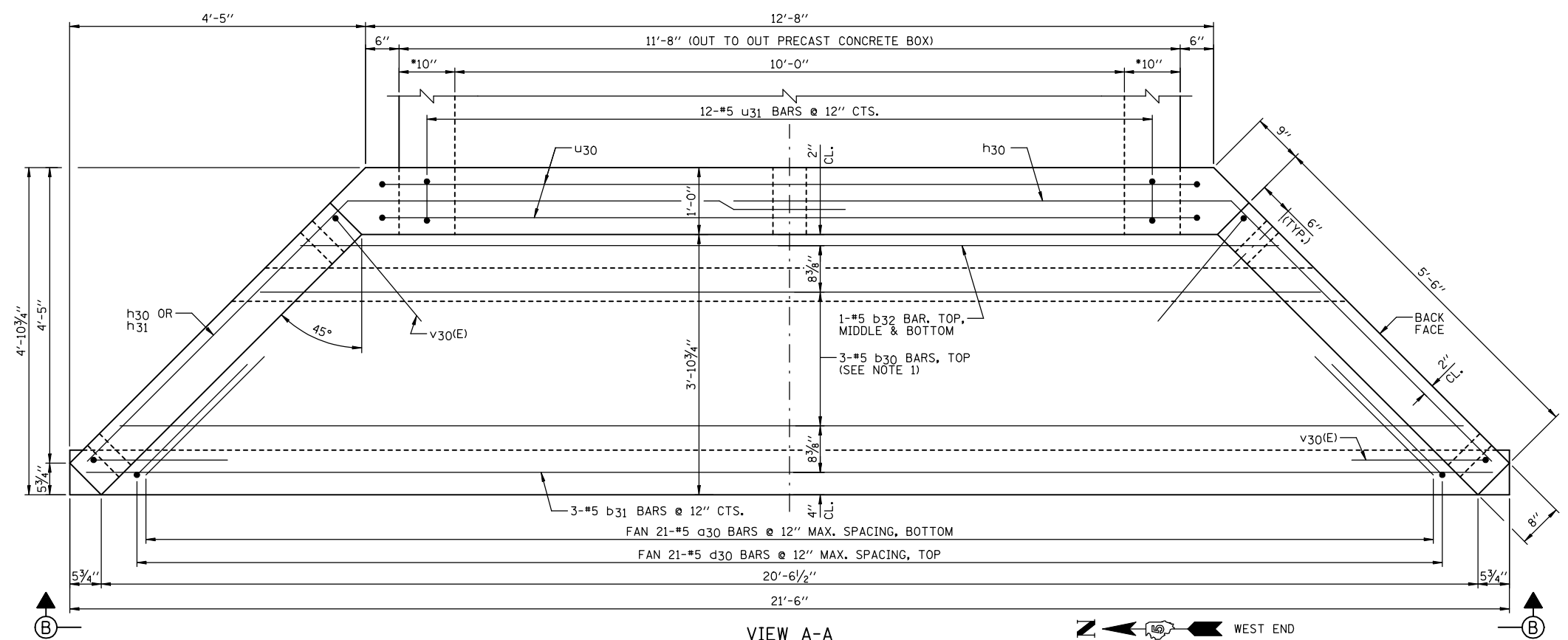
Mark S. Wylie Date 8/15/08
MARK S. WYLIE
ILLINOIS STRUCTURAL ENGINEER
NO. 081-005002
Exp. Date 11/30/08

NOTE:
WORK THIS SHEET WITH SHEET 12.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CULVERT #9 REPLACEMENT
(STA. 335+97.81)
FAP ROUTE 816
ATWOOD-ARTHUR RD
SECTION 6RS-1 & (6BR)BR
DOUGLAS COUNTY
PR. STR. 021-8049
DATE: 11/24/03
DRAWN BY: DJM
CHECKED BY: MSW

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	6RS-1 & (6BR)R	DOUGLAS	176	95
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS		FED. AID PROJECT	
CONTRACT NO. 90711			SHEET NO. 12	
OF 3 SHEETS				



- NOTES:**
- 1.) ORDER b30 & v30(E) BARS FULL LENGTH. CUT ACCORDING TO BAR CUTTING DIAGRAM ON SHEET 11. USE REMAINDER OF b30 BARS IN BOTTOM OF SLAB & REMAINDER OF v30(E) BARS IN OPPOSITE WINGWALL.
 - 2.) MINIMUM BAR LAP: #5 = 1'-8"
 - 3.) WORK THIS SHEET WITH SHEET 11.
 - 4.) FOR LOCATION OF VIEW A-A SEE SHEET 11.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CULVERT #9 REPLACEMENT
 (STA. 335+97.81)
 FAP ROUTE 816
 ATWOOD-ARTHUR RD
 SECTION 6RS-1 & (6BR)R
 DOUGLAS COUNTY
 PR. STR. 021-8049
 DATE: 11/24/03

DRAWN BY: DJM
 CHECKED BY: MSW



SOIL BORING LOG

Page 1 of 1

Date 10/22/02

ROUTE FAP Route 816 (000E) DESCRIPTION 6 Miles North of Arthur LOGGED BY KWW
 SECTION 6RS-1 LOCATION NW, SEC. 6, TWP. 15N, RNG. 7E, 3rd PM
 COUNTY Douglas DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	DEPTH	BLOWS	UCS	MOIST	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:
Station	(ft)	(/6")	(tsf)	(%)	Dry ft	ft	First Encounter ft
11 NE Boring							Upon Completion ft
336+01							After Hrs. ft
14.0 ft Lt.							
Ground Surface Elev. 664.1 ft							
Brown Silty Clay							
	1						
	2	1.7	29				
	3	B					
659.1							
Brown/Gray Silty Clay							
	1						
	2	0.8	22				
	3	B					
656.1							
Brown/Gray Clay Loam Till							
	1						
	2	1.9	17				
	4	B					
653.1							
Gray Clay Loam Till							
	1						
	2	2.3	13				
	4	B					
	2						
	5	5.0	11				
	6	B					
649.1							
End of Boring							

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

Page 1 of 1

Date 10/22/02

ROUTE FAP Route 816 (000E) DESCRIPTION 6 Miles North of Arthur LOGGED BY KWW
 SECTION 6RS-1 LOCATION NW, SEC. 6, TWP. 15N, RNG. 7E, 3rd PM
 COUNTY Douglas DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO.	DEPTH	BLOWS	UCS	MOIST	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:
Station	(ft)	(/6")	(tsf)	(%)	Dry ft	ft	First Encounter ft
12 NW Boring							Upon Completion ft
336+00							After Hrs. ft
14.0 ft Lt.							
Ground Surface Elev. 664.1 ft							
Brown Silty Clay							
	1						
	2	1.2	29				
	3	B					
656.1							
Brown Clay Loam Till							
	1						
	2	1.2	18				
	2	B					
653.1							
Gray Clay Loam Till							
	1						
	3	3.5	14				
	4	B					
	3						
	5	6.2	11				
	9	B					
649.1							
End of Boring							

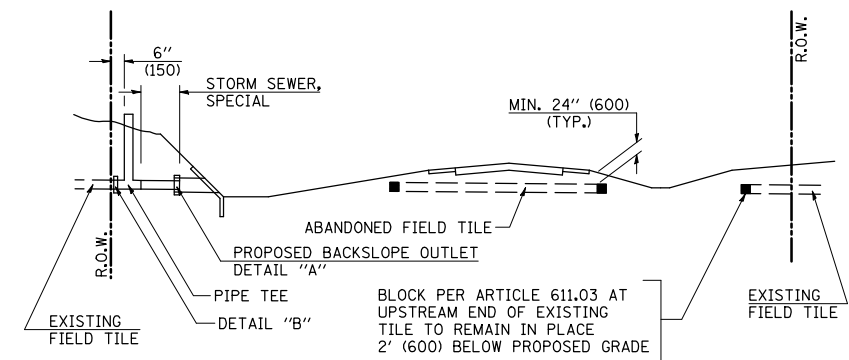
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 BBS, from 137 (Rev. 8-99)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
BORING LOGS CULVERT #9
 (STA. 335+97.81)
 FAP ROUTE 816
 ATWOOD-ARTHUR RD
 SECTION 6RS-1 & (6BR)BR
 DOUGLAS COUNTY
 DRAWN BY: DJM
 CHECKED BY: MSW
 DATE: 11/24/03

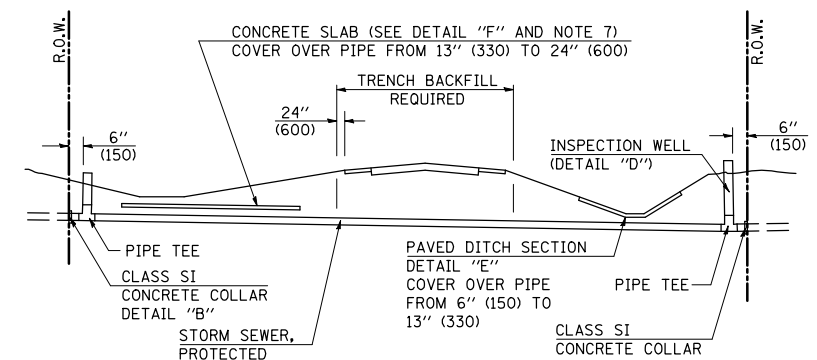
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
816	•	DOUGLAS	176	97
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 90711
• 6RS-1 & (6BR)BR



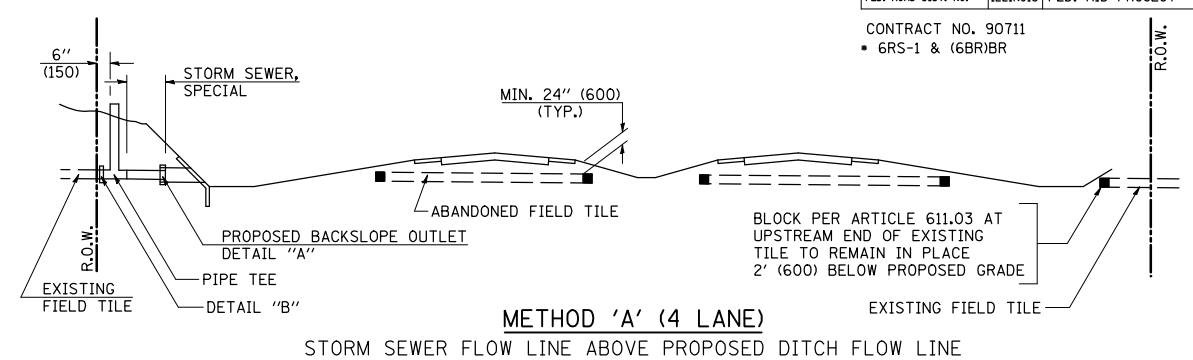
METHOD 'A' (2 LANE)

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE



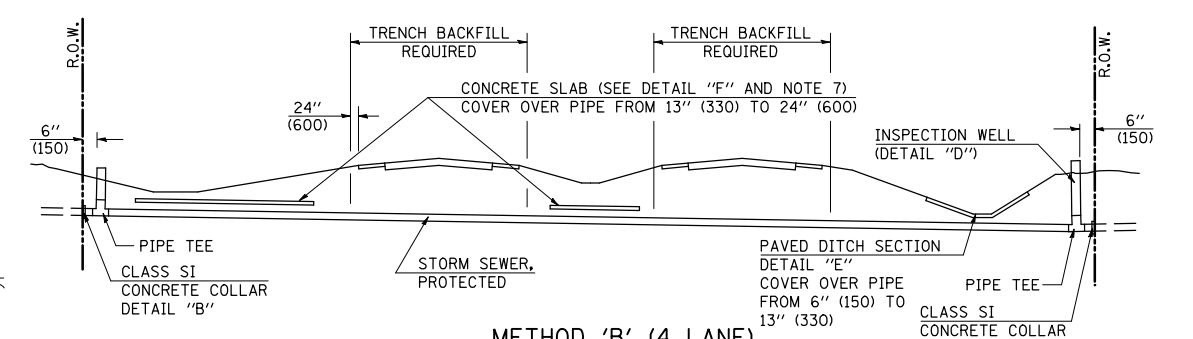
METHOD 'B' (2 LANE)

STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENT AND PAVED DITCH



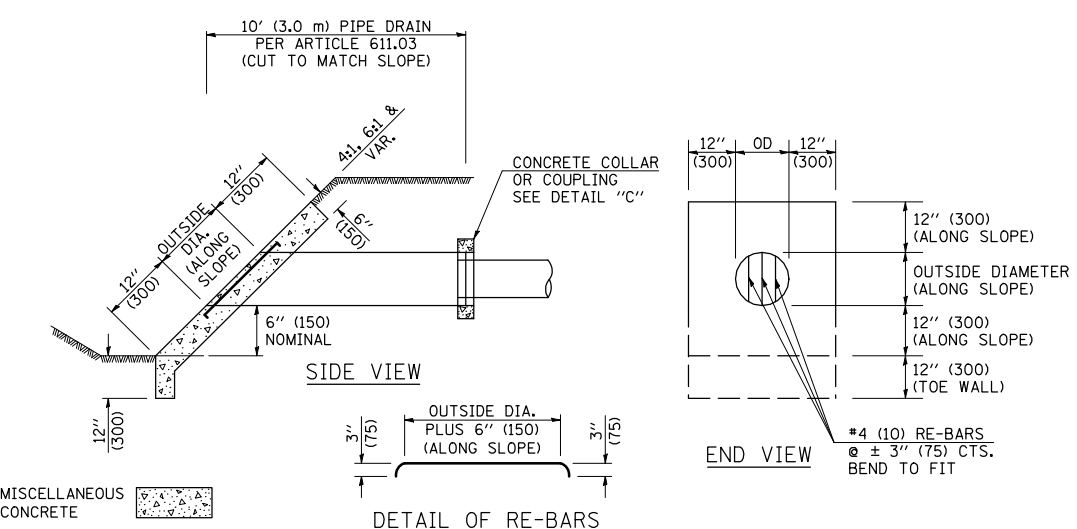
METHOD 'A' (4 LANE)

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE

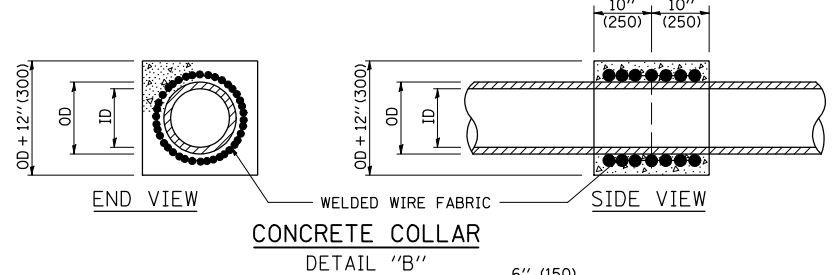


METHOD 'B' (4 LANE)

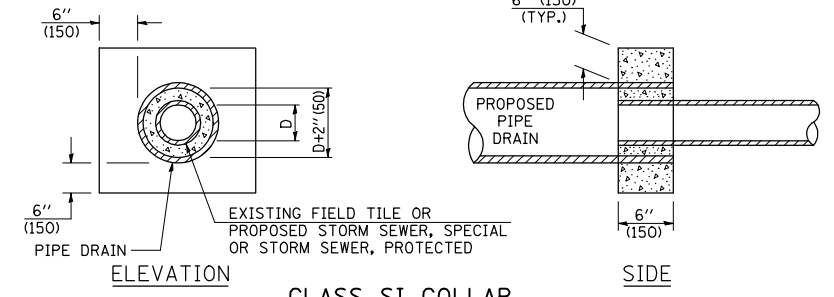
STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENTS AND PAVED DITCHES



HEADWALL FOR BACKSLOPE OUTLET
DETAIL "A"



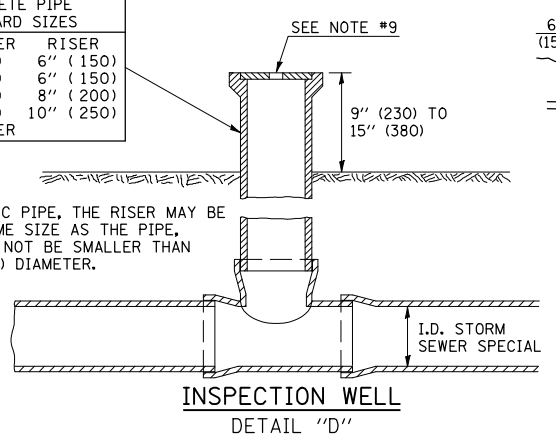
CONCRETE COLLAR
DETAIL "B"



CLASS SI COLLAR
DETAIL "C"

CONCRETE PIPE STANDARD SIZES	
STORM SEWER	RISER
6" (150)	6" (150)
8" (200)	6" (150)
10" (250)	8" (200)
12" (300)	10" (250)
OR GREATER	

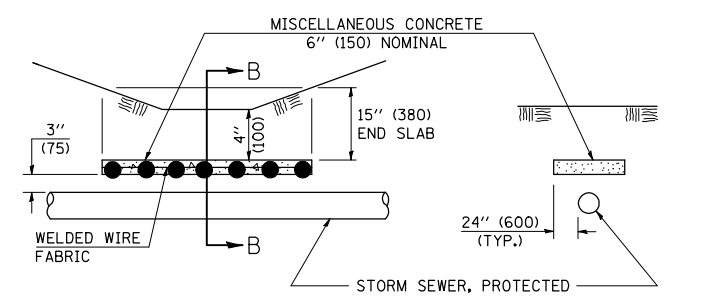
FOR PLASTIC PIPE, THE RISER MAY BE OF THE SAME SIZE AS THE PIPE, BUT SHALL NOT BE SMALLER THAN 4" (100 mm) DIAMETER.



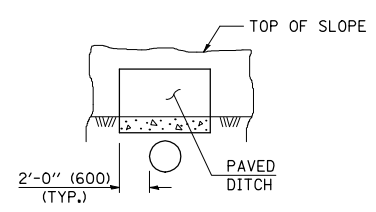
INSPECTION WELL
DETAIL "D"

GENERAL NOTES

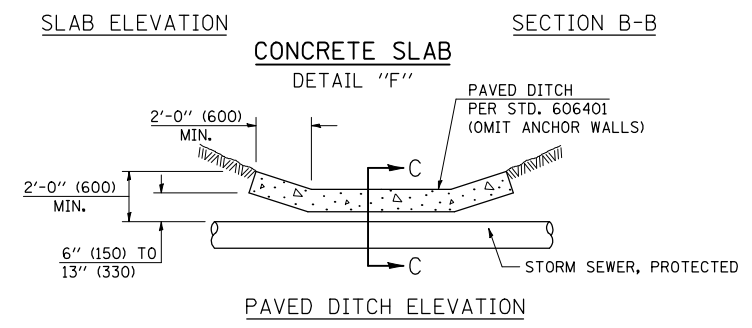
- EXISTING FIELD TILE ENCOUNTERED BY EXPLORATION TRENCH SHALL BE INSPECTED BY THE ENGINEER FOR UNOBSTRUCTED FLOW WITHIN THE LIMITS OF THE RIGHT-OF-WAY.
- ONLY FIELD TILE THAT DOES NOT HAVE SATISFACTORY FLOW AND OR HAS VISIBLE SIGNS OF DETERIORATION (SINK HOLES, ETC.) SHALL BE REPLACED WITHIN THE LIMITS OF THE RIGHT-OF-WAY IN ACCORDANCE WITH METHOD "B".
- INSPECTION WELLS SHALL BE CONSTRUCTED APPROXIMATELY 6" (150 mm) INSIDE OF BOTH RIGHT-OF-WAY LINES AT ALL FIELD TILE LOCATIONS.
- EXISTING FIELD TILE ABANDONED UNDER EXISTING PAVEMENTS OR PAVED SHOULDERS SHALL BE FILLED WITH FLOWABLE GROUT AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.
- NON-CIRCULAR FIELD TILE SHALL BE REPLACED WITH STORM SEWER, SPECIAL OF AT LEAST THE SAME CROSS SECTIONAL AREA. ALL EXISTING FIELD TILE SHALL BE REPLACED WITH STORM SEWER OF THE TYPE REQUIRED FOR THE MINIMUM DEPTH OF COVER.
- THE 6" (150 mm) CONCRETE SLAB OR DITCH LINING SHALL BE POURED THE LENGTH OF THE TRENCH AT ALL DITCH FLOW LINE LOCATIONS WITHIN THE RIGHT-OF-WAY WITH LESS THAN 2' (600 mm) OF EARTH COVER. MISCELLANEOUS CONCRETE SHALL BE USED ACCORDING TO SECTION 611.
- ALL MISCELLANEOUS SLABS, APRONS AND DITCH LININGS SHALL BE REINFORCED WITH WELDED WIRE FABRIC AS SHOWN FOR PAVED DITCH IN STANDARD 606401.
- HEADWALL FOR BACKSLOPE OUTLET MAY BE USED FOR PIPE DRAIN DIAMETERS UP TO 10" (250 mm). SPECIAL DESIGNS WILL BE REQUIRED FOR LARGER SIZES.
- THE INSPECTION WELL LID FOR P.C.C. PIPE SHALL BE CONSTRUCTED OF 3/8" (10 mm) CAST IRON AND PROVIDED WITH A 1" (25 mm) DIAMETER HOLE IN CENTER. THE LID FOR THE OTHER PIPE MATERIALS SHALL BE A GRATE ASSEMBLY PREFABRICATED FOR AND COMPATIBLE WITH THE PIPE SYSTEM.



SLAB ELEVATION



SECTION C-C
PAVED DITCH
DETAIL "E"



CONCRETE SLAB
DETAIL "F"

PAVED DITCH ELEVATION

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

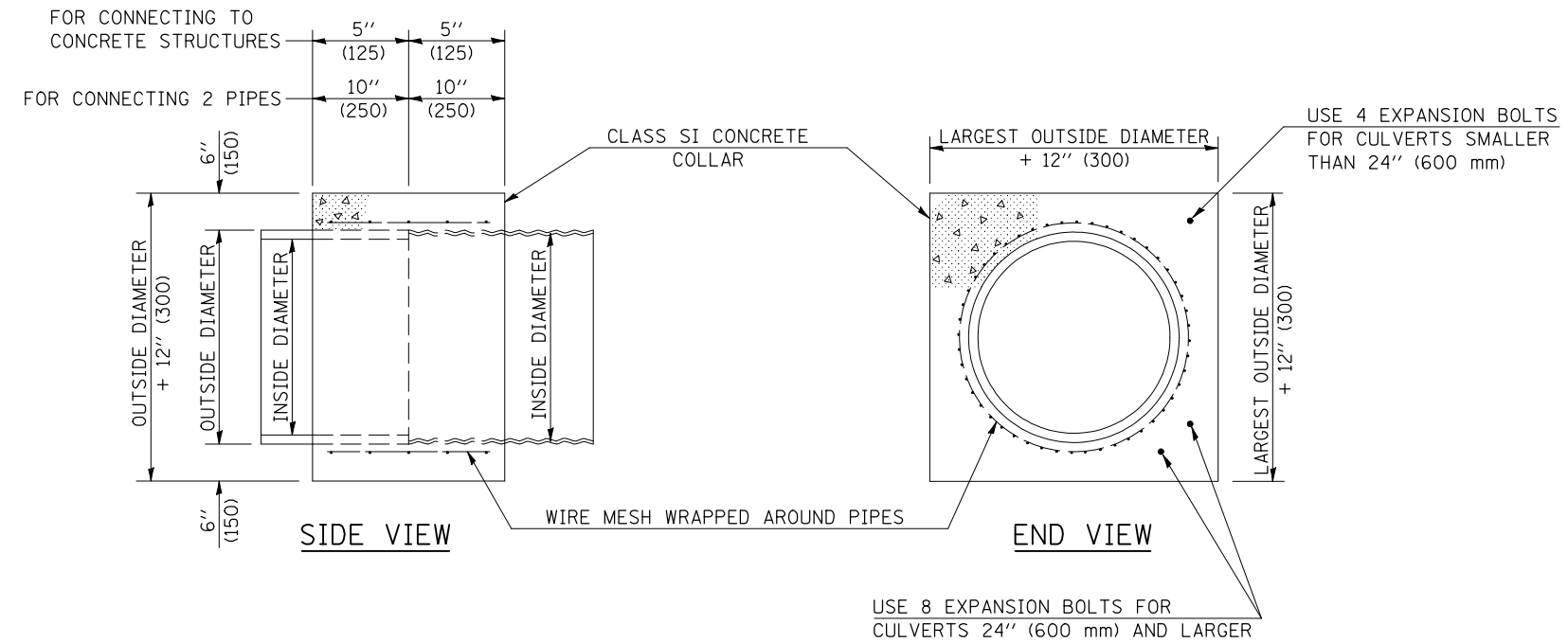
DATE	REVISIONS	NAME
11/06	REPLACED DETAIL A-18.02	TJB

ILLINOIS DEPARTMENT OF TRANSPORTATION
FIELD TILE SYSTEMS
(TREATMENT OF EXISTING)
DISTRICT 5 DETAIL NO. 61101011A

PLOT DATE = 7/25/2008
 FILE NAME = c:\p\projects\61101011A\2007_06_13_submittal\1102846_misc_detail1101-930.dgn
 PLOT SCALE = 1/8" = 1'-0"
 USER NAME = kejarb

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
B16	*	DOUGLAS	176	98
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 90711
 • 6RS-1 & 6BR/BR



GENERAL NOTES

1. CLASS SI CONCRETE SHALL BE USED THROUGHOUT.
2. WHEN CONCRETE COLLARS ARE USED TO CONNECT PIPES OF DIFFERENT OUTSIDE DIAMETERS, THE CONCRETE COLLAR SHALL BE FORMED USING THE LARGEST OUTSIDE DIAMETER (SEE END VIEW).
3. THE WIRE MESH SHALL WEIGH NOT LESS THAN 54#/100 SQ. FT. (2.63 kg/m²).
4. WHEN CONCRETE COLLARS ARE CONSTRUCTED ADJACENT TO AN EXISTING CONCRETE STRUCTURE (HEADWALLS, ETC.) EXPANSION BOLTS, SHALL BE USED AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE, EACH, FOR EXPANSION BOLTS OF THE SIZE SPECIFIED IN THE PLANS.
5. CONCRETE COLLARS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE, PER CUBIC YARD (CUBIC METER), FOR CONCRETE COLLARS INCLUDING ALL MATERIAL AND LABOR SPECIFIED TO COMPLETE THE WORK IN PLACE.

QUANTITIES FOR CONCRETE PIPES	
INSIDE DIAMETER OF PIPE	ESTIMATED CLASS SI CONCRETE REQUIRED
INCH (mm)	20" (500 mm) WIDTH CU. YD. (m ³)
4" (100)	0.14 (0.11)
6" (150)	0.16 (0.12)
8" (200)	0.19 (0.14)
10" (250)	0.22 (0.17)
12" (300)	0.25 (0.19)
15" (375)	0.30 (0.23)
18" (450)	0.35 (0.27)
24" (600)	0.45 (0.35)
30" (750)	0.57 (0.43)
36" (900)	0.69 (0.53)
42" (1050)	0.83 (0.63)
48" (1200)	0.97 (0.74)
54" (1350)	1.12 (0.86)
60" (1500)	1.28 (0.98)

QUANTITIES FOR METAL PIPES	
INSIDE DIAMETER OF PIPE	ESTIMATED CLASS SI CONCRETE REQUIRED
INCH (mm)	20" (500 mm) WIDTH CU. YD. (m ³)
4" (100)	0.12 (0.09)
6" (150)	0.14 (0.11)
8" (200)	0.16 (0.12)
10" (250)	0.19 (0.14)
12" (300)	0.21 (0.16)
15" (375)	0.25 (0.19)
18" (450)	0.29 (0.22)
24" (600)	0.38 (0.29)
30" (750)	0.47 (0.36)
36" (900)	0.59 (0.45)
42" (1050)	0.69 (0.53)
48" (1200)	0.81 (0.62)
54" (1350)	0.93 (0.71)
60" (1500)	1.05 (0.81)

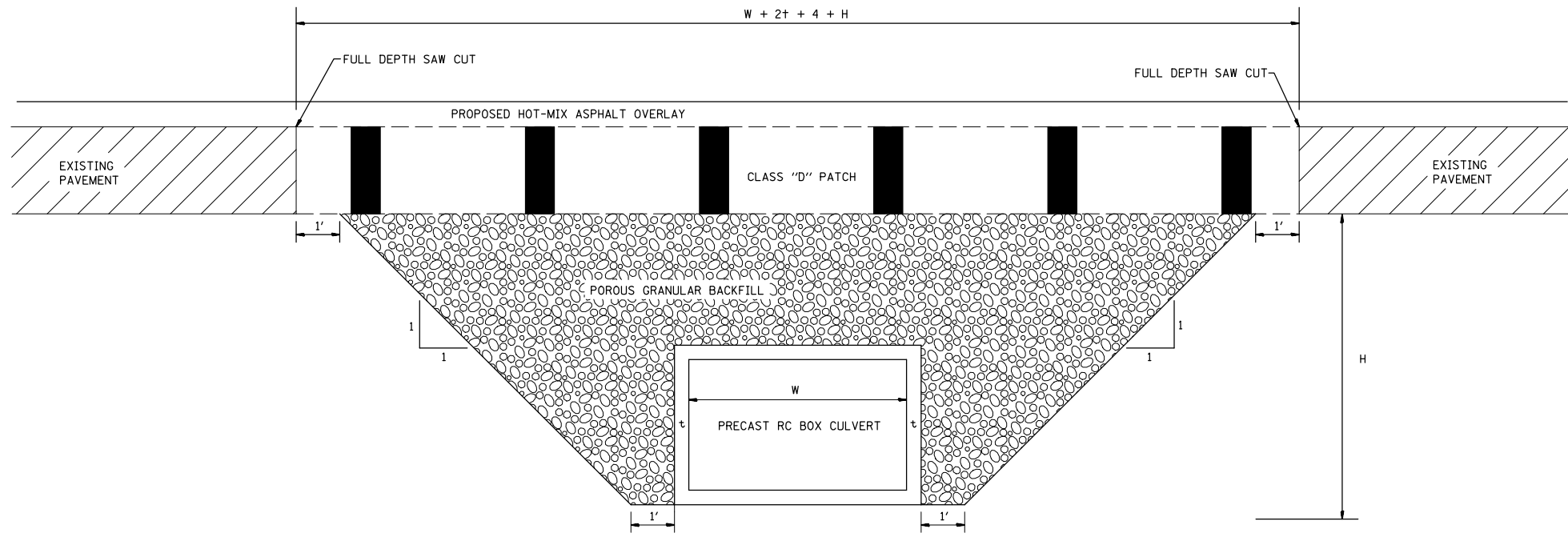
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DATE	REVISIONS	NAME	ILLINOIS DEPARTMENT OF TRANSPORTATION
12/06	REPLACED DETAIL J-5.45	TJB	
			CONCRETE COLLAR
DISTRICT 5 DETAIL NO. 54248510			

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
B16	•	DOUGLAS	176	99
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 90711
• 6RS-1 & 6BR/BR

DETAIL FOR CLASS "D" PATCH, EXCAVATION AND POROUS GRANULAR BACKFILL



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

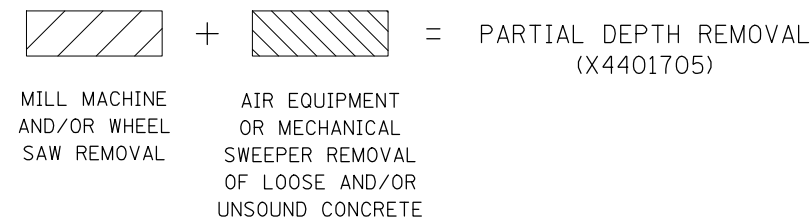
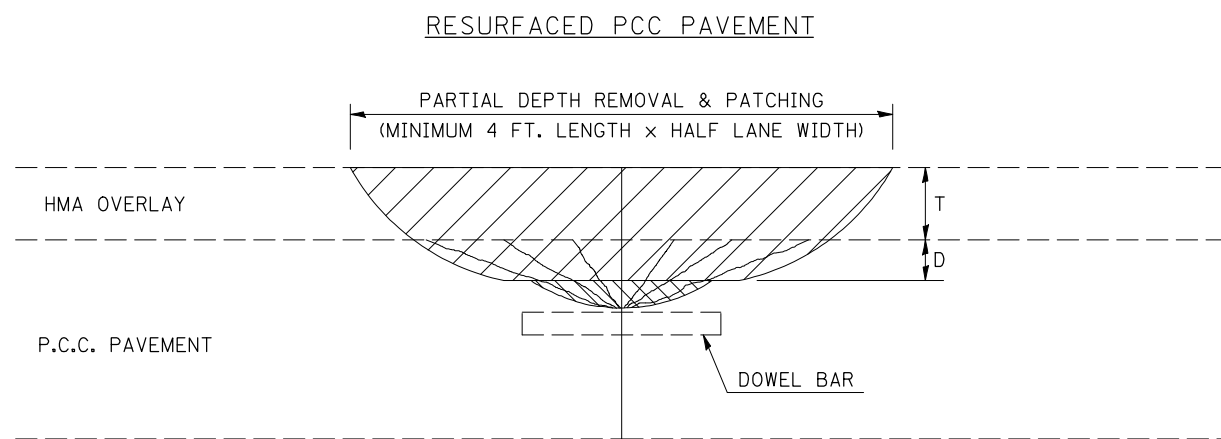
DETAIL FOR CLASS "D" PATCH
EXCAVATION AND POROUS GRANULAR BACKFILL

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	100

STA.	TO STA.
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT

CONTRACT NO. 90711
• 6RS-1 & 6BR/BR



DESIGN NOTES

PARTIAL DEPTH HMA PATCHING SHALL NOT BE USED WHEN HMA OVERLAY THICKNESS (T) ON PCC PAVEMENT EXCEEDS 4 3/4 INCHES (145 mm) OR ON CRC PAVEMENT.

GENERAL NOTES

ALL VOLUME OF PARTIAL DEPTH REMOVAL SHALL BE REPLACED WITH HOT-MIX ASPHALT (HMA) AND PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR PARTIAL DEPTH PATCHING.

T = THICKNESS OF HMA OVERLAY(S). SEE EXISTING TYPICAL CROSS SECTION.

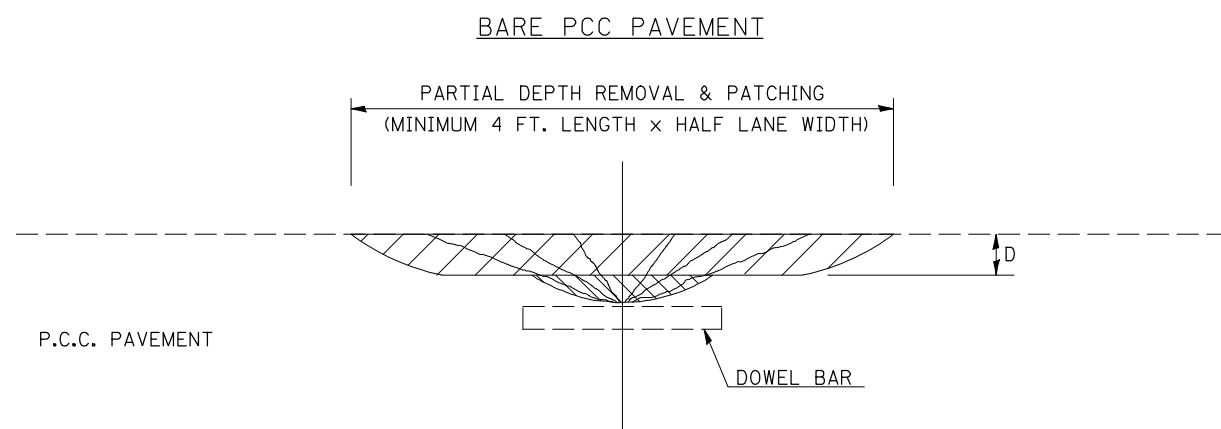
GENERAL NOTE 406H SHALL INCLUDE MIXTURE REQUIREMENTS FOR PARTIAL DEPTH PATCHING.

HMA REPLACEMENT IN RESURFACED PCC PAVEMENT LOCATIONS SHALL BE ACCORDING TO SECTION 406 OF THE STANDARD SPECIFICATIONS.

D = DEPTH OF PARTIAL DEPTH REMOVAL INTO EXISTING PCC PAVEMENT. (3" (75 mm) ± OR TO SOUND CONCRETE)

TRANSVERSE CONTRACTION JOINT SHOWN - OTHER LOCATIONS SIMILAR.

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



DATE	REVISIONS	NAME	ILLINOIS DEPARTMENT OF TRANSPORTATION
11/06	REPLACED DETAIL C-5.01	TJB	PCC PARTIAL DEPTH HOT-MIX ASPHALT PATCHING
			DISTRICT 5 DETAIL NO. XX442100

PLOT DATE = 7/25/2008
FILE NAME = c:\projects\4502695\2007_08_13\submit\0102846.mxd\detail14(91-93).dgn
PLOT SCALE = 1/8"=1'-0"
USER NAME = kejarb