

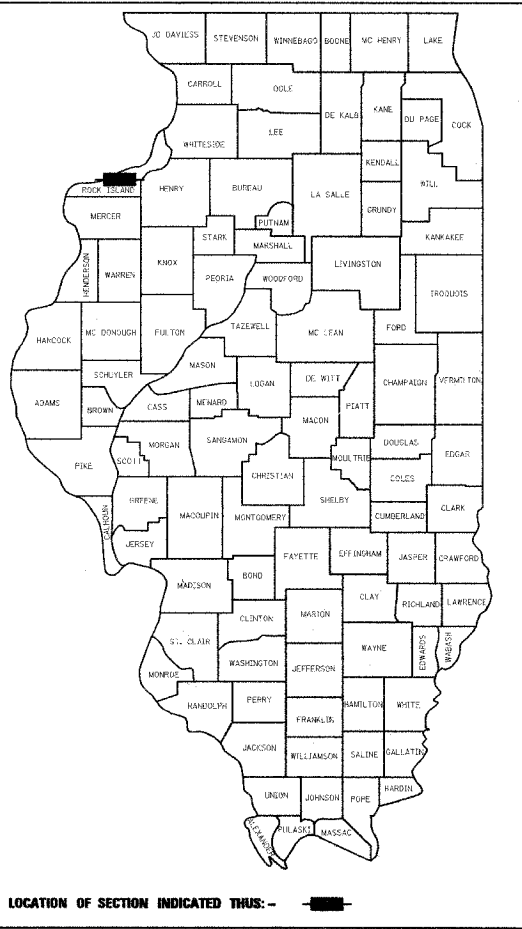
6464

FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	*	ROCK ISLAND	90	1
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
42MFT-BR, (9BR-2)M			D-92-100-00	
42MFT-T				

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED  
FEDERAL AID HIGHWAY

SECTION 42MFT-BR, (9BR-2)M, 42MFT-T  
PROJECT NO. ACF-0599(019)  
ROCK ISLAND COUNTY  
C-92-023-05



LOCATION OF SECTION INDICATED THUS: - ■ -

DESIGN DESIGNATOR  
FAP 599 - 7900(23) MINOR ARTERIAL - 3.81(FD-20)  
ADT - 6900 (2003) 9.0% TRUCKS  
DESIGN SPEED = 60 MPH SECTION 42MFT-BR  
30 MPH SECTION 42MFT-T

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED September 6, 2005  
Egory Z. Mowbray DISTRICT ENGINEER

PASSED October 14, 2005  
Mike Hine ENGINEER OF DESIGN AND ENVIRONMENT

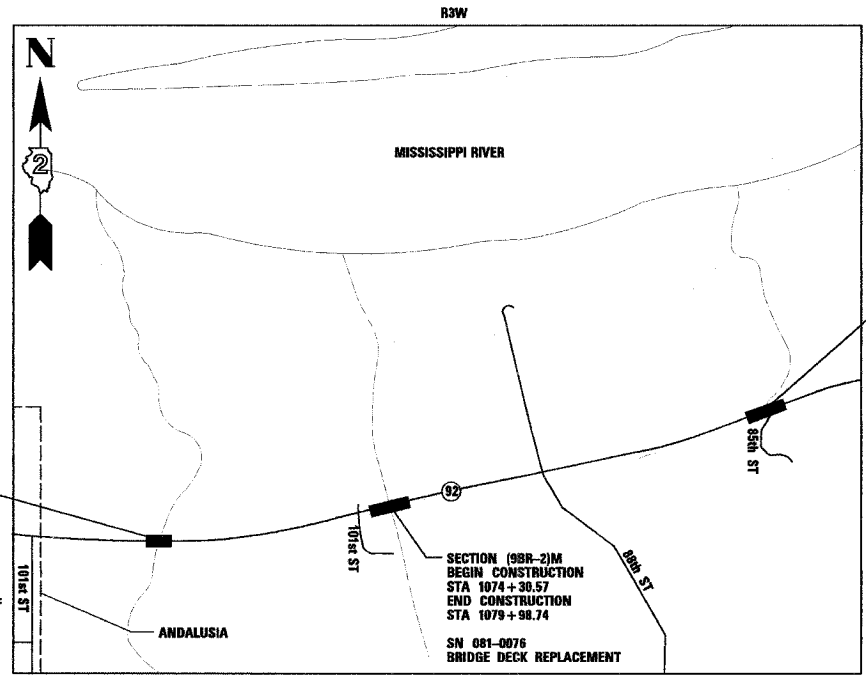
APPROVED October 14, 2005  
Eric E. Hansen DEPUTY DIRECTOR, DIVISION OF HIGHWAYS

DISTRICT 2 - DIXON, IL

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

SEE SHEET 2 FOR INDEX OF SHEETS

- STATE STANDARDS
- 000001-04 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
  - 001001 AREAS OF REINFORCEMENT REBARS
  - 001006 DECIMAL OF AN INCH AND A FOOT
  - 280001-02 TEMPORARY EROSION CONTROL SYSTEMS
  - 515001-02 NAME PLATE FOR BRIDGES
  - 542301 PRECAST REINFORCED CONCRETE FLARED END SECTION
  - 542401 METAL END SECTION FOR PIPE CULVERTS
  - 602001 CATCH BASIN TYPE A
  - 602011 CATCH BASIN TYPE C
  - 602601 PRECAST REINFORCED CONCRETE FLAT SLAB TOP
  - 602701 CAST IRON STEPS
  - 604036-01 GRATE TYPE B
  - 604051-01 FRAME AND GRATE TYPE 11
  - 606001-02 CONCRETE CURB TYPE B AND COMBINATION CURB AND GUTTER
  - 606201 TYPE B GUTTER (INLET, OUTLET & ENTRANCE)
  - 606211-01 OUTLETS TYPE 2 FOR TYPE B GUTTER
  - 630001-05 STEEL PLATE BEAM GUARDRAIL
  - 630301-03 SHOULDER WIDENING FOR TYPE 1 GUARDRAIL TERMINALS
  - 631032-01 TRAFFIC BARRIER TERMINAL, TYPE 6A
  - 635001 DELINEATORS
  - 635006-02 REFLECTOR AND TERMINAL MARKER REPLACEMENT
  - 635011-01 REFLECTOR MARKER AND MOUNTING DETAILS
  - 667101 PERMANENT SURVEY MARKERS
  - 701006-02 OFF-RD OPERATIONS 2L, 2W 4.5 m (15') TO PAVEMENT EDGE
  - 701011-01 OFF-RD MOVING OPERATIONS 2L, 2W DAY ONLY
  - 701201-02 LANE CLOSURE 2L, 2W, DAY ONLY FOR SPEEDS  $\geq$  45 MPH
  - 701301-02 LANE CLOSURE 2L, 2W SHORT TIME OPERATIONS
  - 701306-01 LANE CLOSURE 2L, 2W SLOW MOVING OPERATIONS - DAY ONLY FOR SPEEDS  $\geq$  45 MPH
  - 701311-02 LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
  - 701321-08 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
  - 701326-02 LANE CLOSURE 2L, 2W PAVEMENT WIDENING FOR SPEEDS  $\geq$  45 MPH
  - 701331-02 LANE CLOSURE 2L, 2W WITH RUN-AROUND FOR SPEEDS  $\geq$  45 MPH
  - 702001-05 TRAFFIC CONTROL DEVICES
  - 720011 METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
  - 780001-01 TYPICAL PAVEMENT MARKINGS
  - 781001-02 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
  - 886001 DETECTOR LOOP INSTALLATIONS
  - 886006 TYPICAL LAYOUT FOR DETECTOR LOOPS



SECTION 42MFT-BR  
BEGIN CONSTRUCTION  
STA 404+30  
END CONSTRUCTION  
STA 411+46

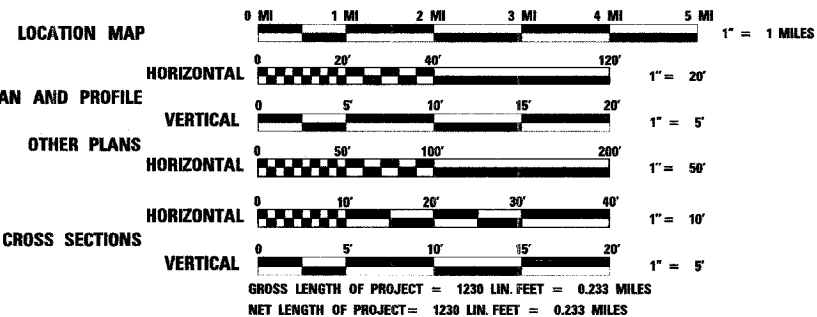
INCLUDES THE REMOVAL OF THE EXISTING STRUCTURE NO. 081-0075, A SINGLE SPAN T-BEAM BRIDGE AND CONSTRUCTION OF THE NEW STRUCTURE NO. 081-1008, A THREE SIDED PRECAST STRUCTURE AT STATION 408+41.00

SECTION (9BR-2)M  
BEGIN CONSTRUCTION  
STA 1074+30.57  
END CONSTRUCTION  
STA 1079+98.74

SN 081-0076  
BRIDGE DECK REPLACEMENT

SECTION 42MFT-T  
BEGIN CONSTRUCTION  
STA 326+50  
END CONSTRUCTION  
STA 336+10

INCLUDES THE REMOVAL OF THE EXISTING STRUCTURE NO. 081-1001, A SINGLE SPAN SLAB BRIDGE AND CONSTRUCTION OF THE NEW STRUCTURE NO. 081-1008, A CAST IN PLACE DUAL CELL BOX CULVERT AT STATION 332+98.8.



Except sheets:  
12, 13, 18, 23-25, 31, 32  
License expires 11-30-05

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123

ANDALUSIA TOWNSHIP, SECTIONS 26 & 27  
CONTRACT NO. 64641

PROJECT ENGINEER: ROBERT J WAGNER  
SENIOR ENGINEER: THOMAS HALLA  
HOMER L. CHASTAIN & ASSOCIATES  
DAN JEDRZEJAK 773-714-0050



**GENERAL NOTES**

1. SEE CROSS SECTIONS FOR SPECIAL DITCHES AND BACKSLOPES.
2. AT THE LOCATIONS WHERE EXCAVATION QUANTITIES ON THE PLANS ARE INDICATED AS HAVING BEEN ESTIMATED, THE ENGINEER WILL OBTAIN ORIGINAL AND FINAL CROSS SECTIONS TO DETERMINE PAY QUANTITIES.
3. THE REMOVAL OF BITUMINOUS SURFACING NOT ON A RIGID TYPE BASE REMOVED IN CONJUNCTION WITH THE BASE SHALL BE REMOVED AS EARTH EXCAVATION. THE REMOVAL OF BITUMINOUS SURFACING ON A RIGID TYPE BASE REMOVED IN CONJUNCTION WITH THE BASE SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR PAVEMENT REMOVAL.
4. THE FINAL TOP FOUR INCHES OF SOIL IN ANY RIGHT-OF-WAY AREA DISTURBED BY THE CONTRACTOR MUST BE CAPABLE OF SUPPORTING VEGETATION. THE SOIL MUST BE FROM THE 'A' HORIZON (ZERO TO 2' DEEP) OF SOIL PROFILES OF LOCAL SOILS.
5. IT IS ESTIMATED THAT 3,522 CUBIC YARDS OF EARTH WILL BE HAULED TO THE JOB FROM OUTSIDE THE PROJECT LIMITS. A SHRINKAGE FACTOR OF 20% HAS BEEN USED.
6. THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS. SEEDING CLASS 4 OR 6 (MODIFIED) SHALL BE USED, EXCEPT IN FRONT OF PROPERTIES WHERE THE GRASS WILL BE MOWED, THEN USE SEEDING, CLASS 1 (MODIFIED). CLASS 6 (MODIFIED) SHALL BE USED ON FRONT SLOPES AND DITCH BOTTOMS. CLASS 4 SHALL BE USED BEHIND GUTTER OR CURB AND GUTTER, ON ALL BACKSLOPES AND AREAS BEHIND THE BACKSLOPE, AND BEYOND THE TOE OF FRONT SLOPE ON FILL SECTIONS WITHOUT DITCHES.
7. FERTILIZER NUTRIENTS SHALL BE APPLIED AT THE RATE SPECIFIED IN SECTIONS 250 AND 252 OF THE STANDARD SPECIFICATIONS. THIS SHALL BE INCLUDED IN THE COST OF THE SEEDING OR SODDING.
8. WHEN MULCH WITH EMULSIFIED ASPHALT IS APPLIED, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO COVER OR PROTECT ALL TRAFFIC SIGNS, GUARDRAIL AND CURBS. ANY SIGNS, GUARDRAIL OR CURBS WHICH BECOME COVERED WITH ASPHALTIC MATERIAL SHALL BE CLEANED BY THE CONTRACTOR AT HIS OWN EXPENSE.
9. MULCH ON TEMPORARY SEEDING SHALL BE MULCH METHOD 2. THE QUANTITIES FOR MULCH METHOD 2 INCLUDES BOTH TEMPORARY AND PERMANENTLY SEEDED AREAS.
10. PREVIOUSLY PUGMILLED STOCKPILES OF "TYPE A" OLDER THAN 1 MONTH WILL NOT BE APPROVED FOR USE UNTIL A MOISTURE CHECK IS RUN TO VERIFY MOISTURE CONTENT. MATERIAL SHIPPED TO PROJECTS WITHOUT BEING TESTED WILL NOT BE ACCEPTED.
11. THE SUBGRADE ON THIS PROJECT, EXCLUSIVE OF ROCK CUT AREAS IS SCHEDULED TO BE IMPROVED TO A 12" DEPTH ACCORDING TO MECHANISTIC PAVEMENT DESIGN. THE AREAS SCHEDULED TO BE IMPROVED TO A DEPTH GREATER THAN 12" ARE ESTIMATED BASED ON THE ORIGINAL GEOTECHNICAL INVESTIGATION. THE SUBGRADE SHALL BE PROCESSED IN ACCORDANCE WITH ARTICLE 301.03 OF THE STANDARD SPECIFICATIONS BEFORE THE ENGINEER SHALL DETERMINE THE LIMITS AND THE ADDITIONAL THICKNESS OF IMPROVEMENT REQUIRED, IF ANY.
12. EXCEPT FOR THE TOP 3", ALL AGGREGATE BASES AND SUBBASES 12" IN THICKNESS SHALL BE CONSTRUCTED OF AGGREGATE GRADATION CA-2. IF THE SPECIFIED THICKNESS EXCEEDS 12", THE BASES OR SUBBASES SHALL BE CONSTRUCTED OF TOPSIZE 6" BREAKER-RUN CRUSHED STONE WITH 15% TO 40% BY WEIGHT PASSING THE 2" SIZE SIEVE. EXCEPT FOR THE TOP 3", THE BREAKER-RUN CRUSHED STONE SHALL BE REASONABLY UNIFORMLY GRADED FROM COARSE TO FINE AND BE TAKEN FROM A QUARRY LEDGE CAPABLE OF PRODUCING CLASS "D" QUALITY AGGREGATE. THE TOP 3" SHALL BE GRADATION CA-6 OR CA-10 REGARDLESS OF THICKNESS. THE WATER NECESSARY TO ACHIEVE COMPACTION IN ALL BUT THE TOP 3" LAYER MAY BE ADDED AFTER THE SUBBASE OR BASE COURSE IS PLACED ON THE GRADE.
13. ALL EMBANKMENT CONSTRUCTED OF COHESIVE SOIL SHALL BE CONSTRUCTED WITH NOT MORE THAN 110% OF OPTIMUM MOISTURE CONTENT, DETERMINED BY THE STANDARD PROCTOR TEST. COHESIVE SOIL SHALL BE DEFINED AS ANY SOIL WHICH CONTAINS GREATER THAN 10% PARTICLES BY WEIGHT PASSING THE #200 SIEVE. THE 110% OF OPTIMUM MOISTURE LIMIT MAY BE WAIVED IF FREE-DRAINING GRANULAR MATERIAL WHEN APPROVED BY THE ENGINEER.
14. A NATIONWIDE 404 PERMIT HAS BEEN ISSUED FOR THIS PROJECT AND THE CONDITIONS OF THAT PERMIT MUST BE ADHERED TO.
15. THE NEW NUMBERS FOR THE CULVERT STRUCTURES ARE 081-1008 (EX 081-1001) AND 081-1009 (EX 081-0075).
16. THE CONTRACTOR SHALL SUBMIT FOUR COPIES OF THE REQUIRED SHOP DRAWINGS FOR REVIEW AND APPROVAL TO THE BUREAU OF BRIDGES AND STRUCTURES, 2300 SOUTH DIRKSEN PARKWAY, SPRINGFIELD, IL 62764. AFTER APPROVAL OF INITIAL SUBMITTAL, THE CONTRACTOR SHALL SUBMIT ONE SET OF SHOP DRAWINGS TO ERIC HARM, ENGINEER OF MATERIALS, 126 EAST ASH STREET, SPRINGFIELD, IL 62706, AND EIGHT (8) SETS OF SHOP DRAWINGS TO BE DISTRIBUTED TO:  
DISTRICT 2 DISTRICT ENGINEER (1)  
FABRICATOR (1)  
CONTRACTOR (2)  
RESIDENT ENGINEER (2)  
DISTRICT 2 BUREAU OF MATERIALS (2)
17. THE BORING LOGS FOR THIS STRUCTURE INDICATE THAT GROUNDWATER LEVELS MAY ENCROACH ON THE CONSTRUCTION LIMITS OF THESE STRUCTURES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL THE GROUND WATER AND DIVERT THE STREAM FLOW DURING CONSTRUCTION IN ORDER TO KEEP THE CONSTRUCTION AREA FREE OF WATER. THE METHOD OF CONTROLLING THE WATER SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER AND THE COST SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR CONCRETE BOX CULVERTS OR THREE SIDED PRECAST CONCRETE STRUCTURE.
18. A PRECAST BOX CULVERT IS NOT AN OPTION FOR SN 081-1008 DUE TO SOIL CONDITIONS.
19. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL CORRUGATED METAL PIPE CULVERTS AS SHOWN IN THE PLANS. COST OF THE WORK TO BE INCLUDED IN THE CONTRACT UNIT PRICE FOR EARTH EXCAVATION.
20. THE PROPOSED PIPES FOR ENTRANCES AND SIDE ROADS SHALL BE PLACED IN LINE WITH THE EXISTING OR PROPOSED DITCH LINE.
21. BITUMINOUS AND AGGREGATE PRIME COAT REQUIRED FOR SURFACE, LEVELING BINDER, AND BINDER ON EXISTING SURFACES SHALL BE PLACED IN ACCORDANCE WITH SECTION 406 OF THE STANDARD SPECIFICATIONS. THE COST OF THE PRIME COATS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER TON FOR BITUMINOUS CONCRETE SURFACE COURSE, LEVELING BINDER (MACHINE METHOD), LEVELING BINDER (HAND METHOD), AND BITUMINOUS CONCRETE BINDER COURSE OF THE TYPES SPECIFIED. BITUMINOUS AND AGGREGATE PRIME COAT REQUIRED FOR PRIVATE ENTRANCES SHALL BE IN ACCORDANCE WITH SECTION 408 OF THE STANDARD SPECIFICATIONS. THE COST OF THE PRIME COATS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER TON FOR INCIDENTAL BITUMINOUS SURFACING, SUPERPAVE.

22. THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

**BITUMINOUS MIXTURE DESCRIPTION**

MIX USES	SURFACE COURSE	BINDER COURSE	LEVELING BINDER	TOP SHOULDER	BOTTOM SHOULDER
PG	64-22	64-22	64-22	58-22	58-22
RAPZ (MAX)	15	25	25	30	50
DESIGN AIR VOIDS(%)	4.2 AT N50	4.2 AT N50	4.2 AT N50	3 AT N50	2 AT N50
MIXTURE COMPOSITION	IL 9.5 OR 12.5	IL 19.0	IL 9.5	IL 9.5 OR 12.5	BAM
FRICTION AGGREGATE	D	N/A	N/A	C	N/A
20 YEAR ESAL	2.04	2.04	2.04	N/A	N/A

23. PAVEMENT MARKING SHALL BE DONE ACCORDING TO STANDARD 780001, EXCEPT AS FOLLOWS:
  1. ALL WORDS, SUCH AS ONLY, SHALL BE 8 FEET HIGH.
  2. ALL NON-FREEWAY ARROWS SHALL BE THE LARGE SIZE.
  3. THE DISTANCE BETWEEN YELLOW NO-PASSING LINES SHALL BE 8", NOT 7" AS SHOWN IN THE DETAIL OF TYPICAL LANE AND EDGE LINES.
24. THE CONTRACTOR WILL BE REQUIRED TO FURNISH 5-1/2" HIGH BRASS STENCILS AS APPROVED BY THE ENGINEER AND INSTALL STATIONING AT 250' INTERVALS. STATIONING SHALL BE PLACED ON BOTH LANES OF 2 LANE HIGHWAYS AND ON THE OUTSIDE LANES IN BOTH DIRECTIONS OF 4 LANE HIGHWAYS. THE STATIONS SHALL BE PLACED 6" INSIDE THE PAVEMENT MARKING EDGE SO THEY CAN BE READ FROM THE SHOULDER. THIS WORK WILL BE INCLUDED IN THE COST OF THE FINAL PAVEMENT SURFACE.
25. PERMANENT SURVEY MARKERS, TYPE II SHALL BE CAST-IN-PLACE AS SHOWN ON HIGHWAY STANDARD 667101. A MARKER SHALL BE PLACED NEAR EACH STRUCTURE AS DIRECTED BY THE ENGINEER.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123. THE FOLLOWING LISTED UTILITIES LOCATED WITHIN THE PROJECT LIMITS OR IMMEDIATELY ADJACENT TO THE PROJECT CONSTRUCTION LIMITS ARE MEMBERS OF JULIE:
 

SBC/AMERITECH TELEPHONE COMPANY	MR. JEREMY SCHNACK	(309)-793-4456
MIDAMERICAN ENERGY COMPANY - ELECTRIC	MR. JEFF THOMAS	(309)-793-3763
MIDAMERICAN ENERGY COMPANY - GAS	MR. SCOTT BULL	(309)-793-3870
VILLAGE OF ANDALUSIA - WATER & SEWER	MR. MIKE WELLS	(309)-798-2887
27. THE CONTRACTOR SHALL ONLY USE STATE ROUTES AND DETOUR ROUTES FOR HAULING MATERIALS AND EQUIPMENT. THERE WILL BE NO EXCEPTIONS UNLESS WRITTEN PERMISSION IS GIVEN FROM A JURISDICTION, TOWNSHIP OR COUNTY. A RECORD OF THIS AUTHORIZATION SHALL BE GIVEN TO THE RESIDENT ENGINEER.
28. THE RESIDENT ENGINEER PRIOR TO CLOSING THE ROAD AND AFTER THE PROJECT IS FINISHED SHALL CONTACT THE ROCK ISLAND COUNTY ENGINEER AND THE CITY OF ROCK ISLAND TO VIDEO TAPE THE FOLLOWING ROADS: 108TH ST. WEST/105 STREET WEST AND TURKEY HOLLOW RD.
29. THE ROADWAY SHALL NOT BE CLOSED PRIOR TO APRIL 18, 2006 AND WHEN RESTRICTED WEIGHT LIMITS ARE REMOVED FROM SURROUNDING ROADS.
30. CADD DATA WILL BE AVAILABLE TO CONTRACTORS AND CONSULTANTS WORKING ON THIS PROJECT. THIS INFORMATION WILL BE PROVIDED UPON REQUEST AS MICROSTATION CADD FILES AND GEOPAK COORDINATE GEOMETRY FILES ONLY. IF DATA IS REQUIRED IN OTHER FORMATS IT WILL BE YOUR RESPONSIBILITY TO MAKE THESE CONVERSIONS. IF ANY DISCREPANCY OR INCONSISTENCY ARISES BETWEEN THE ELECTRONIC DATA AND THE INFORMATION ON THE HARD COPY, THE INFORMATION ON THE HARD COPY SHOULD BE USED. CONTACT THE DISTRICT'S PROJECT ENGINEER TO REQUEST THESE FILES.
31. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
32. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
33. ALL DIMENSIONS SHOWN ARE IN FEET UNLESS OTHERWISE NOTED. PAVEMENT THICKNESS, CULVERT SIZE, CONDUIT SIZE AND MARKING WIDTHS ARE SHOWN IN INCHES UNLESS NOTED.
34. WHERE SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS OR OTHERWISE REFERENCE THEIR LOCATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUB-SECTION MONUMENTS DESTROYED BY HIS OPERATIONS.
35. ONLY THOSE TREES DESIGNATED BY THE ENGINEER SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.
36. ALL SAW CUTTING OF EXISTING PAVEMENT SHALL BE CONSIDERED INCLUDED IN PAVEMENT REMOVAL. THE MINIMUM SAW CUT DEPTH IN THE PAVEMENT SHALL BE FULL DEPTH OF THE EXISTING PAVEMENT UNLESS OTHERWISE SPECIFIED IN A DETAIL IN THE PLANS OR BY THE ENGINEER.
37. ACCORDING TO IDOT BDE PROCEDURE MEMORANDUM 99-34 AND OPERATIONS POLICY 5-1800, ALL UNMOWED AREAS SHOULD BE DESIGNATED IN THE PLANS AND SEEDED WITH THE APPROPRIATE NATIVE SEEDING SELECTIONS FROM CLASS 4, PER DIRECTIVE OF THE DECEMBER 8, 1999 STUDIES AND PLANS ENGINEER'S MEMORANDUM.
38. QUANTITY OF TRENCH BACKFILL IS PROVIDED IN THE PLANS FOR THE STRUCTURES. PLACEMENT AND COMPACTION OF TRENCH BACKFILL FOR ACROSS ROAD (AR) CULVERTS, INCLUDING THE THREE SIDED PRECAST CONCRETE STRUCTURE, SHALL CONFORM TO ARTICLE 502.10 OF THE STANDARD SPECIFICATIONS EXCEPT THAT THE MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 95% OF THE STANDARD LABORATORY DENSITY. THE ENTIRE EXCAVATION WITHIN 2' OUTSIDE OF EACH SHOULDER SHALL BE BACKFILLED WITH TRENCH BACKFILL MATERIAL. THE PAY LIMITS FOR TRENCH BACKFILL SHALL EXTEND FROM 2' OUTSIDE EACH VERTICAL CULVERT WALL AT THE BASE OF THE CULVERT FLOOR AND SHALL EXTEND VERTICALLY TO THE BOTTOM OF THE PROPOSED SUBGRADE. THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE PER CUBIC YARD FOR TRENCH BACKFILL.
39. THE CURB OF ALL PROPOSED CURB AND GUTTER SHALL TRANSITION IN 6' FROM FULL HEIGHT TO THE GRADES OF ABUTTING SHOULDERS AND ENTRANCES. THE COST OF THIS TRANSITION SHALL BE INCLUDED IN THE UNIT PRICE PER FOOT FOR "COMBINATION CURB AND GUTTER" OF THE TYPE SPECIFIED.
40. STATION AND OFFSET FOR CATCH BASINS IN PAVED AREAS ARE AT THE EDGE OF SHOULDER. STATION AND OFFSET OF CATCH BASINS IN NON-PAVED AREAS ARE AT THE CENTER OF STRUCTURE. STATION AND OFFSET FOR FLARED END SECTIONS ARE AT THE CONNECTION WITH THE PIPE.
41. THE FOLLOWING QUANTITIES HAVE BEEN ESTIMATED FOR THE GOOD NEIGHBOR POLICY AS NEEDED: 66300105 CALCIUM CHLORIDE APPLIED - 14 TON, 40600810 BITUMINOUS SURFACE COARSE MIX C, CLASS 1, TYPE 1 N50 - 230 TONS, 31101000 SUB-BASE GRANULAR MATERIAL TYPE B - 100 TON.
42. REFLECTIVE STRIP CRACK CONTROL SHALL BE PLACED ON THE EDGE OF EXISTING SURFACE PRIOR TO ANY RESURFACING, UNLESS PAVEMENT IS MILLED, THEN IT WILL BE PLACED ON THE BINDER COURSE.
43. DUE TO ENVIRONMENTAL CONCERNS THE FOLLOWING SHALL BE STRICTLY ADHERED TO AT FANCY CREEK
  - 1) ALL WORK SHALL BE PERFORMED FROM THE EXISTING DECK AND NO WORK SHALL TAKE PLACE BELOW THE EXISTING STRUCTURE ON THE GROUND BY FANCY CREEK.
  - 2) NO FILL SHALL BE PLACED IN OR AROUND FANCY CREEK.

**POLICY GUIDELINES:**  
ALL TREES REMOVED FROM THE PROJECT AREA (25 TREES, MAX.) FOR CONSTRUCTION OR MAINTENANCE PURPOSES WILL BE REPLACED WITH DECIDUOUS TREE SPECIES WHICH ARE NATIVE TO THE DISTRICT 2 AREA. TREES WILL BE REPLACED ACCORDING TO THE IDOT DEPARTMENTAL POLICY D & E - 18 (SEPTEMBER 18, 2002). THE LOCATION OF THE REPLACEMENT TREES SHALL BE DETERMINED BY THE DISTRICT 2 LANDSCAPE ARCHITECT.

**COMMITMENTS:**

42MFT-BR	NONE
42MFT-T	NONE
(9BR-2)M	NONE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
FAP ROUTE 599 (IL 92)  
SECTION 42MFT-BR. (9BR-2)M & 42MFT-T  
ROCK ISLAND COUNTY  
GENERAL NOTES  
DRAWN BY: HLC

**REVISIONS**

NAME	DATE

PLAN NO. \_\_\_\_\_  
 DATE \_\_\_\_\_  
 SURVEYED BY \_\_\_\_\_  
 ALIGNED CHECKED \_\_\_\_\_  
 PAVED FILED \_\_\_\_\_  
 NO. \_\_\_\_\_

0/31/2006  
 5:31:20 AM  
 42MFT-BR  
 42MFT-T  
 (9BR-2)M  
 REF

FAP NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599		ROCK ISLAND	90	3
STA.	TO STA.			
EXISTING CONDITIONS:				
• 42MFT-BR, (9BR-2)M & 42MFT-T				
<b>CONTRACT 64641</b>				

# SUMMARY OF QUANTITIES

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599		ROCK ISLAND	90	4
STA.	TO STA.			
EXISTING CONDITIONS:				
42MET-2M, 198R-2M				
				CONTRACT 64641

← 80% FED 20% STATE →

CODE NUMBER	ITEM	UNITS	TOTAL	1000-2A	SN 081-1009 X028-2A	Y060 VILLAGE OF ANDALUSIA 100% Village	SN 081-1008 X028-2A 80 % FED 20 % STATE	SN 081-0076 SFTY-2A 80 % FED 20 % STATE
* A2006514 B2003516 20100110 B2005316 20200100	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 1- 3/4" CALIPER, BALLED AND BURLAPPED TREE, MALUS HARVEST GOLD (HARVEST GOLD CRABAPPLE), 2" CALIPER, TREE FORM, BALLED & BURLAPPED TREE REMOVAL (6 TO 15 UNITS DIAMETER) TREE, MALUS ZUMI CALOCARPA (REDBOW ZUMI CRABAPPLE), 2" CALIPER, TREE FORM, BALLED & BURLAPPED EARTH EXCAVATION	EACH EACH UNIT EACH CU YD	25 4 300 4 3,694	25 4 300 4 3,650			44	
20300100	CHANNEL EXCAVATION	CU YD	192	192			316	
20400800	FURNISHED EXCAVATION	CU YD	3,004	2,688				
20800150	TRENCH BACKFILL	CU YD	560	560			360	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	8,068	7,708				
21301052	EXPLORATION TRENCH 52" DEPTH	FOOT	50	50			0.25	
25000200	SEEDING, CLASS 2	ACRE	0.25					
25000310	SEEDING, CLASS 4	ACRE	1.75	1.75				
25000750	MOWING	ACRE	1.75	1.75				
25000910	SEEDING, CLASS 1 (MODIFIED)	ACRE	1.00	1.00				
25001830	SEEDING, CLASS 6 (MODIFIED)	ACRE	0.75	0.75				
25100115	MULCH, METHOD 2	ACRE	10.50	10.50				
25100630	EROSION CONTROL BLANKET	SQ YD	1,084	1,084				
25200110 28000250	SEEDING, SALT TOLERANT TEMPORARY EROSION CONTROL SEEDING	SQ YD POUND	776 720	776 700			20	
28000300	TEMPORARY DITCH CHECKS	EACH	17	17			855	
28000400	PERIMETER EROSION BARRIER	FOOT	2,891	2,036				
28000500	INLET AND PIPE PROTECTION	EACH	10	10				
28100109	STONE RIPRAP, CLASS A5	SQ YD	273	273				
28200300	FILTER FABRIC	SQ YD	273	273				
31100300	SUB-BASE GRANULAR MATERIAL, TYPE A, 4"	SQ YD	407	407				
31100910	SUB-BASE GRANULAR MATERIAL, TYPE A, 12"	SQ YD	2,825	2,825				
31101000	SUB-BASE GRANULAR MATERIAL, TYPE B	TON	100	100				
35101400	AGGREGATE BASE COURSE, TYPE B	TON	1,265	1,265				
<del>40600910</del>	<del>BITUMINOUS CONCRETE SURFACE COURSE, MIXTURE C, CLASS I, TYPE 1 N50</del>	<del>TON</del>	<del>230</del>	<del>230</del>				
40600990	TEMPORARY RAMP	SQ YD	36	36			115	
44000007	BITUMINOUS SURFACE REMOVAL 2"	SQ YD	115					
44000030	BITUMINOUS SURFACE REMOVAL (VARIABLE DEPTH)	SQ YD	1,059	1,059				
44000100	PAVEMENT REMOVAL	SQ YD	2,744	2,744				
44000400	GUTTER REMOVAL	FOOT	305	305				
44000075	BITUMINOUS CONCRETE SURFACE REMOVAL COMPLETE	SQ YD	236	0			236	
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	1,692	1,692			280	
48101200	AGGREGATE SHOULDERS, TYPE B	TON	515	235				
48202400	BITUMINOUS SHOULDERS SUPERPAVE 6"	SQ YD	620	620				
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1			1		
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1			1		
50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	329			173		
50300225	CONCRETE STRUCTURES	CU YD	110			110		
50300260	BRIDGE DECK GROOVING	SQ YD	257				257	
50300265	SEAL COAT CONCRETE	CU YD	7			7		
50300300	PROTECTIVE COAT	SQ YD	266				266	
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	327					327
50800105	REINFORCEMENT BARS	POUND	56,970		56,970			
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3,530				3,530	
50901005	STEEL BRIDGE RAIL, TYPE SM	FOOT	109				109	
51500100	NAME PLATES	EACH	3			2		1
54003000	CONCRETE BOX CULVERTS	CU YD	271.9			271.9		

NON-PARTICIPATING  
 \* SPECIALTY ITEM  
 + SFTY-3N ITEM

# SUMMARY OF QUANTITIES

SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	ROCK ISLAND	90	5
EXISTING CONDITIONS:			
* 20% F-1, SBR-2M			
			CONTRACT 64641

←80% FED — 20% STATE →

CODE NUMBER	ITEM	UNITS	TOTAL	I000-2A	X028-2A SN 081-1009	Y060 VILLAGE OF ANDALUSIA 100% Village	SN 081-1008 X028-2A 80 % FED 20 % STATE	SN 081-0076 SFTY-2A 80 % FED 20 % STATE
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	1	1				
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	1	1				
54213870	STEEL END SECTIONS 15"	EACH	9	9				
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	112	112				
542D1060	PIPE CULVERTS, CLASS D, TYPE 2 15"	FOOT	44	44				
542D1111	PIPE CULVERTS, CLASS D, TYPE 2 66"	FOOT	120	120				
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	742	742				
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	116	116				
* 56103100	DUCTILE IRON WATER MAIN 8"	FOOT	375			375		
* 56105000	WATER VALVES 8"	EACH	2			2		
* 56400400	FIRE HYDRANTS TO BE RELOCATED	EACH	1			1		
* 56400700	FIRE HYDRANTS (SPECIAL)	EACH	1	1				
60100915	PIPE DRAINS 6"	FOOT	50	50				
60100925	PIPE DRAINS 8"	FOOT	50	50				
60100935	PIPE DRAINS 10"	FOOT	50	50				
60100945	PIPE DRAINS 12"	FOOT	50	50				
60100955	PIPE DRAINS 15"	FOOT	54	54				
60200805	CATCH BASINS, TYPE A, 4' - DIAMETER, TYPE 8 GRATE	EACH	2	2				
60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	1	1				
60209510	CATCH BASINS, TYPE C, WITH SPECIAL FRAME AND GRATE	EACH	6	6				
60249500	VALVE BOXES 8"	EACH	2			2		
60405900	GRATES AND COVERS, TYPE 2B	EACH	1	1				
60500060	REMOVING INLETS	EACH	1	1				
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	2.2	2.2				
60602800	CONCRETE GUTTER, TYPE B	FOOT	362	362				
60900515	CONCRETE THRUST BLOCKS	EACH	5			5		
61100605	MISCELLANEOUS CONCRETE	CU YD	1	1				
61133200	FIELD TILE JUNCTION VAULTS, 3' DIA.	EACH	1	1				
* 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	350				350	
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4				4	
* 63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	4				4	
63200310	GUARDRAIL REMOVAL	FOOT	790	423			367	
63500105	DELINEATORS	EACH	7	3			4	
66300105	CALCIUM CHLORIDE APPLIED	TON	14	14				
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	15	15				
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	4	2			2	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	9	9				
67100100	MOBILIZATION	L SUM	1	0.67			0.33	
70100405	TRAFFIC CONTROL AND PROTECTION STD 701321	EACH	1				1	
70100450	TRAFFIC CONTROL AND PROTECTION STD. 701201	L SUM	1				1	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1				
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1				
70101700	TRAFFIC CONTROL AND PROTECTION	L SUM	1	1				
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DAY	270	270				
70106500	TEMPORARY BRIDGE SIGNALS	EACH	1				1	
* 70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	446	446				
+ 70300625	TEMPORARY PAINT PAVEMENT MARKING LINE 4"	FOOT	6,844	6,844				
70400100	TEMPORARY CONCRETE BARRIER	FOOT	960	650			310	

\* SPECIALTY ITEM  
+ SFTY-3N ITEM

# SUMMARY OF QUANTITIES

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	ROCK ISLAND	90	6
STA.	TO STA.		
EXISTING CONDITIONS:			
* 42M-T-2R, 19BR-2M 42M-T-1			

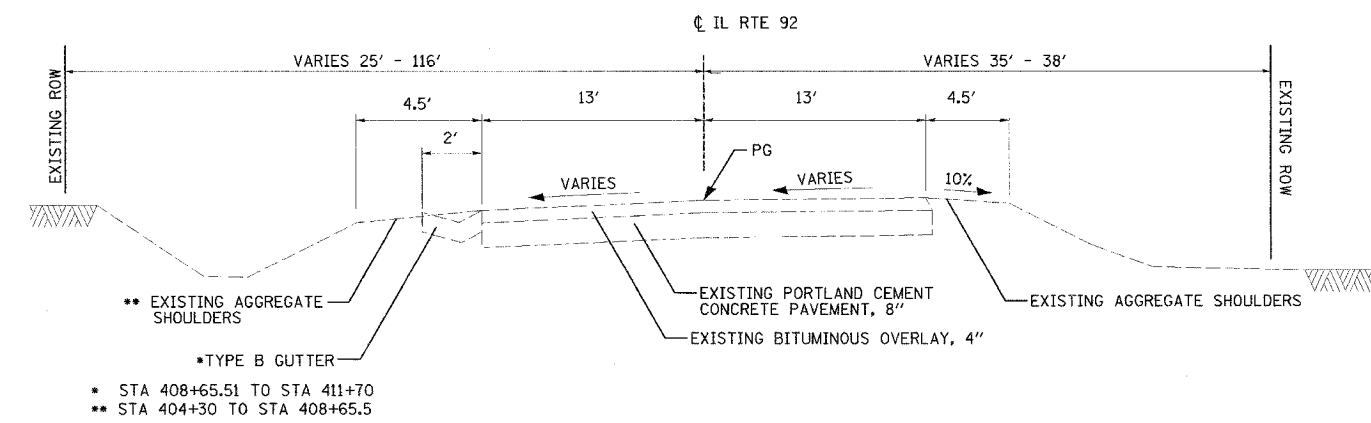
**CONTRACT 64641**

← 80% FED. — 20% STATE →

CODE NUMBER	ITEM	UNITS	TOTAL	I000-2A	X028-2A SN 081-1009	Y060 VILLAGE OF ANDALUSIA 100% Village	SN 081-1008 X028-2A 80 % FED 20 % STATE	SN 081-0076 SFTY-2A 80 % FED 20 % STATE
* 70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	535	225			310	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	14,025	13,408			617	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	48	44			4	
78200410	GUARDRAIL MARKERS, TYPE A	EACH	16				16	
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4				4	
78300500	PAINT PAVEMENT MARKING REMOVAL	SQ FT	120				120	
X0301335	WATER MAIN REMOVAL 8"	FOOT	367			367		
X0320047	REMOVAL OF EXISTING PRECAST PRESTRESSED CONCRETE DECK BEAMS	SQ FT	327					327
X0320887	POLYMER CONCRETE	CU FT	3.4				3.4	
X0322752	WORK ZONE PAVEMENT MARKING REMOVAL	FOOT	249	249				
X0323076	SILICONE JOINT SEALER, 1 3/4"	FOOT	47				47	
X0323330	PRECAST CONCRETE SUBSTRUCTURE	L SUM	1		0.5		0.5	
X0323557	BRIDGE JOINT SYSTEM EXPANSION 1"	FOOT	36				36	
X0323988	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	272		272			
X4066414	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	TON	123	103			20	
X4066424	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N50	TON	276	276				
X4066614	BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL- 19.0, N50	TON	259	259				
X4066735	LEVELING BINDER (HAND METHOD), SUPERPAVE N50	TON	3	3				
X4066765	LEVELING BINDER (MACHINE METHOD), SUPERPAVE N50	TON	19	19				
X4073121	BITUMINOUS CONCRETE PAVEMENT (FULL-DEPTH), SUPERPAVE, 12"	SQ YD	2,399	2,399				
X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	262				262	
X6063401	COMBINATION CONCRETE CURB AND GUTTER, TYPE M- 4.12	FOOT	667	667				
X7013015	TRAFFIC CONTROL FOR ROAD CLOSURE	L SUM	1	1				
* XX003345	WATER MAIN ENCASEMENT	FOOT	20			20		
XX003516	CONNECTIONS TO EXISTING WATER MAINS (NON-PRESSURE) - 8"	EACH	2			2		
XX004949	INCIDENTAL BITUMINOUS SURFACING, SUPERPAVE	TON	213	213				
XX004970	TEMPORARY PAVEMENT SUPERPAVE	SQ YD	1,318	1,318				
Z0000990	AGGREGATE FOR TEMPORARY ACCESS	TON	3,250	3,250				
* Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	2				2	
Z0002600	BAR SPLICERS	EACH	83		26			57
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.67			0.33	
+ Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	6	4			2	
+ Z0017300	DOWEL REPAIR	EACH	26	2			2	26
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LOAD 3	EACH	4					
Z0003700	BEARING PAD ADJUSTMENT	EACH	26					26
X0325133	THREE-SIDED PRECAST CONCRETE STRUCTURE, 32' X 6' -6"	FOOT	85		85			
Z0032700	KEYWAY REPAIR	FOOT	654					654

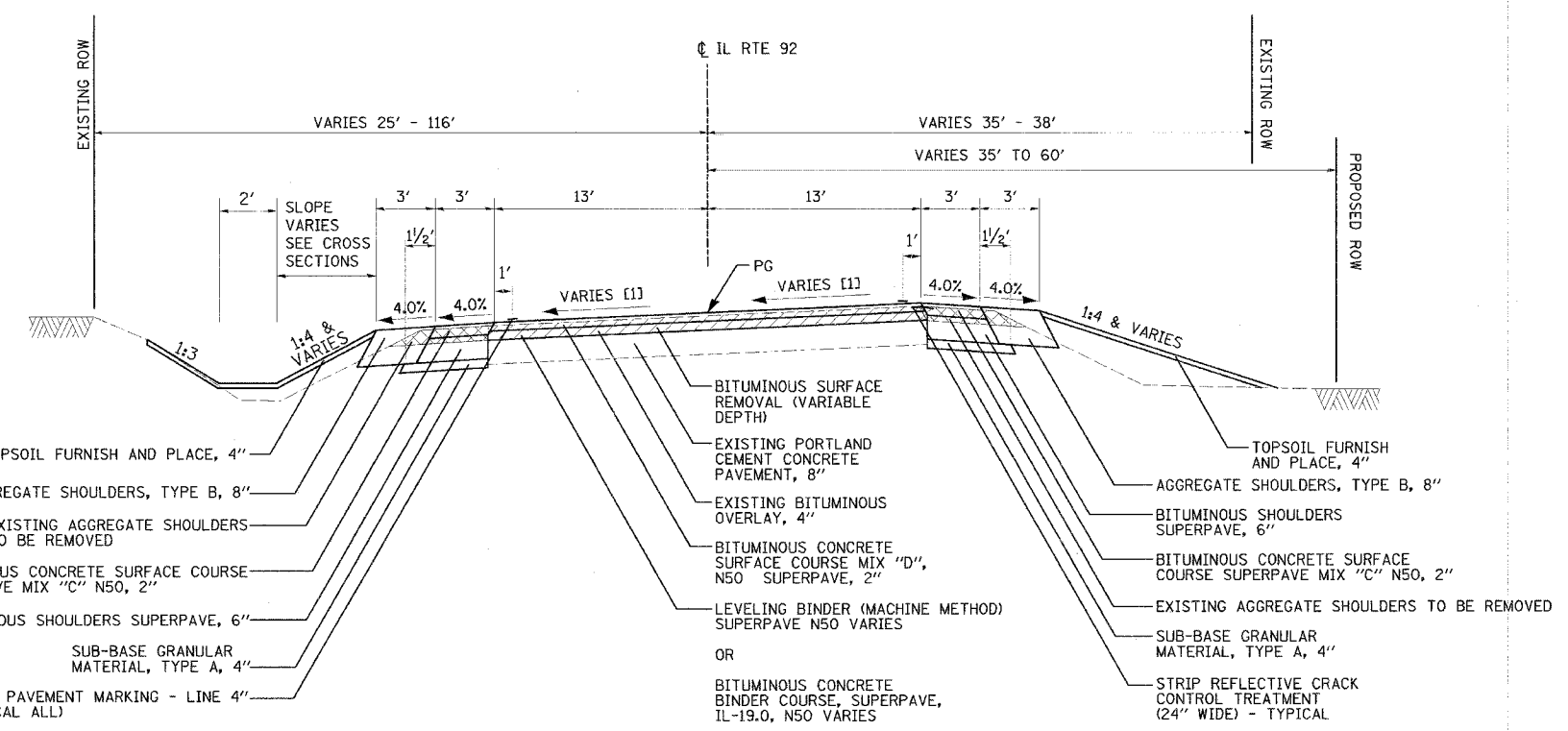
\* SPECIALTY ITEM  
+ SFTY-3N ITEM

09/09/2005  
DATE TIME  
JOB SHEET  
REF.



EXISTING TYPICAL ROADWAY SECTION

NOT TO SCALE  
 STA 404+30.00 TO STA 408+20.86  
 STA 408+20.86 TO STA 408+50.11 EX BRIDGE OMISSION  
 STA 408+50.11 TO STA 411+46.00



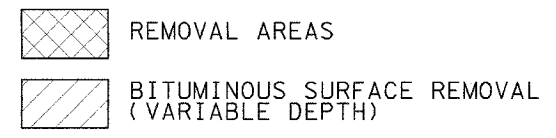
PROPOSED TYPICAL ROADWAY SECTION

NOT TO SCALE  
 STA 404+30.00 TO STA 407+70.00  
 [1] SEE PAVEMENT TRANSITION SCHEDULE

STA	CROSS SLOPE		PAVEMENT ELEVATIONS			EDGE OF BITUMINOUS SHOULDER ELEVATIONS	
	LT	RT	PG	LT	RT	LT	RT
404+30.00	1.50%	1.50%	574.14	573.95	573.95	573.83	573.83
405+58.50	1.50%	1.50%	573.75	573.56	573.56	573.44	573.44
405+96.00	1.50%	0.00%	573.64	573.45	573.64	573.33	573.52
406+33.50	1.50%	1.50%	573.53	573.34	573.73	573.22	573.61
406+96.00	4.00%	4.00%	573.34	572.82	573.86	572.70	573.74
410+83.50	4.00%	4.00%	573.54	573.02	574.06	572.90	573.94
411+15.25	4.00%	2.73%	573.64	573.12	573.99	573.00	573.87
411+46.00	5.23%	1.50%	573.75	573.07	573.95	572.95	573.83

**STRUCTURAL DESIGN DATA**

TYPE OF CONSTRUCTION: PAVEMENT DESIGN: ROAD CLASSIFICATION	
STRUCTURAL DESIGN TRAFFIC:	
YEAR	2003
PV	6,280
SU	345
MU	275
% SDT IN DESIGN LANE	
PV	91.0%
SU	5.0%
MU	4.0%
TRAFFIC FACTOR	3.81
MINIMUM SOIL SUPPORT:	IBR = 2.95
STRUCTURAL NUMBER:	Dt = 5.2
PAVEMENT STRUCTURE	
BC SC SUPER "D" N50 (0.40)	2"
BCBC SUP IL- 19.0 N50 (0.33)	10"
SUB GRAN MAT A (0.11)	12"



- NOTE:
1. BITUMINOUS CONCRETE PAVEMENT (FULL DEPTH) SUPERPAVE, 12" CONSISTS OF BITUMINOUS CONCRETE SURFACE COURSE MIX "D", N50 SUPERPAVE, 2" AND BITUMINOUS CONCRETE BINDER COURSE IL-19.0, N50, 10"
  2. SEE SHEET 6 FOR APPLICATION RATES.

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 FAP ROUTE 599 (IL 92)  
 SECTION 42MFT-BR  
 ROCK ISLAND COUNTY

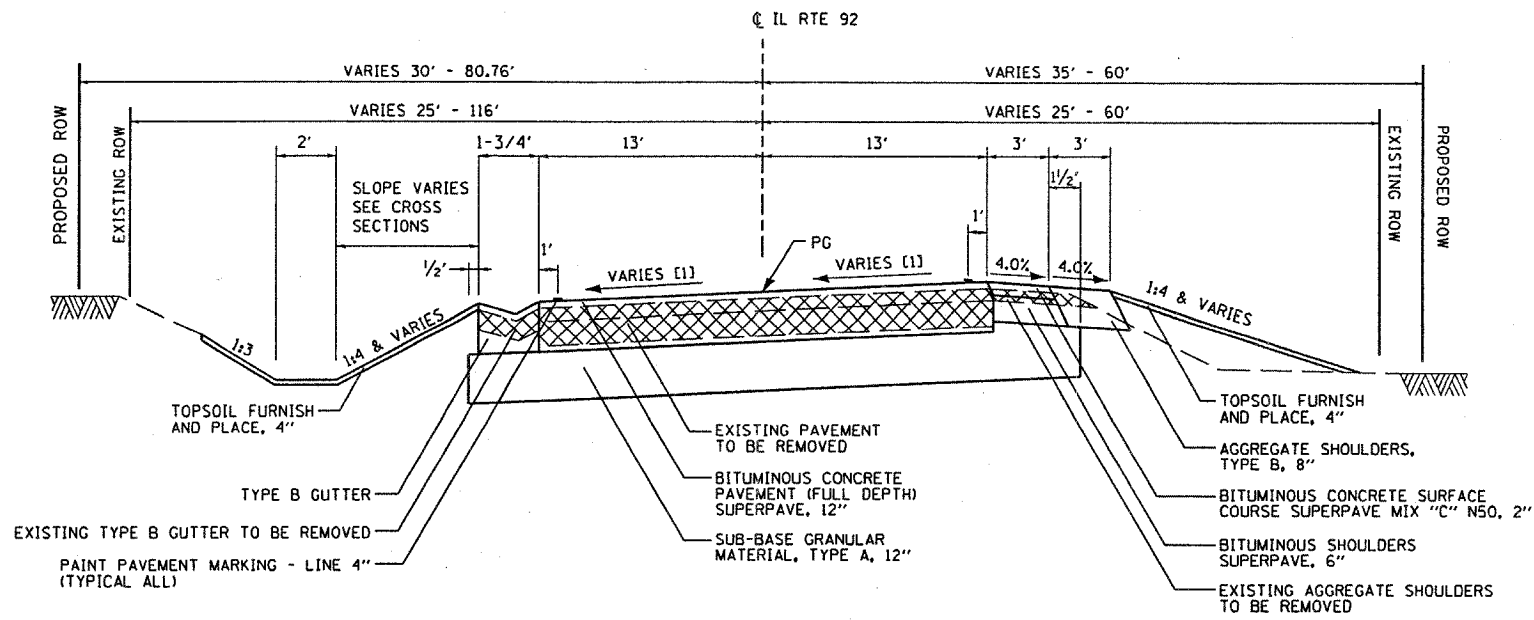
TYPICAL SECTIONS

DRAWN BY: HLC

REVISIONS	
NAME	DATE

PLAN  
 CHECKED  
 DATE  
 BY  
 NO.

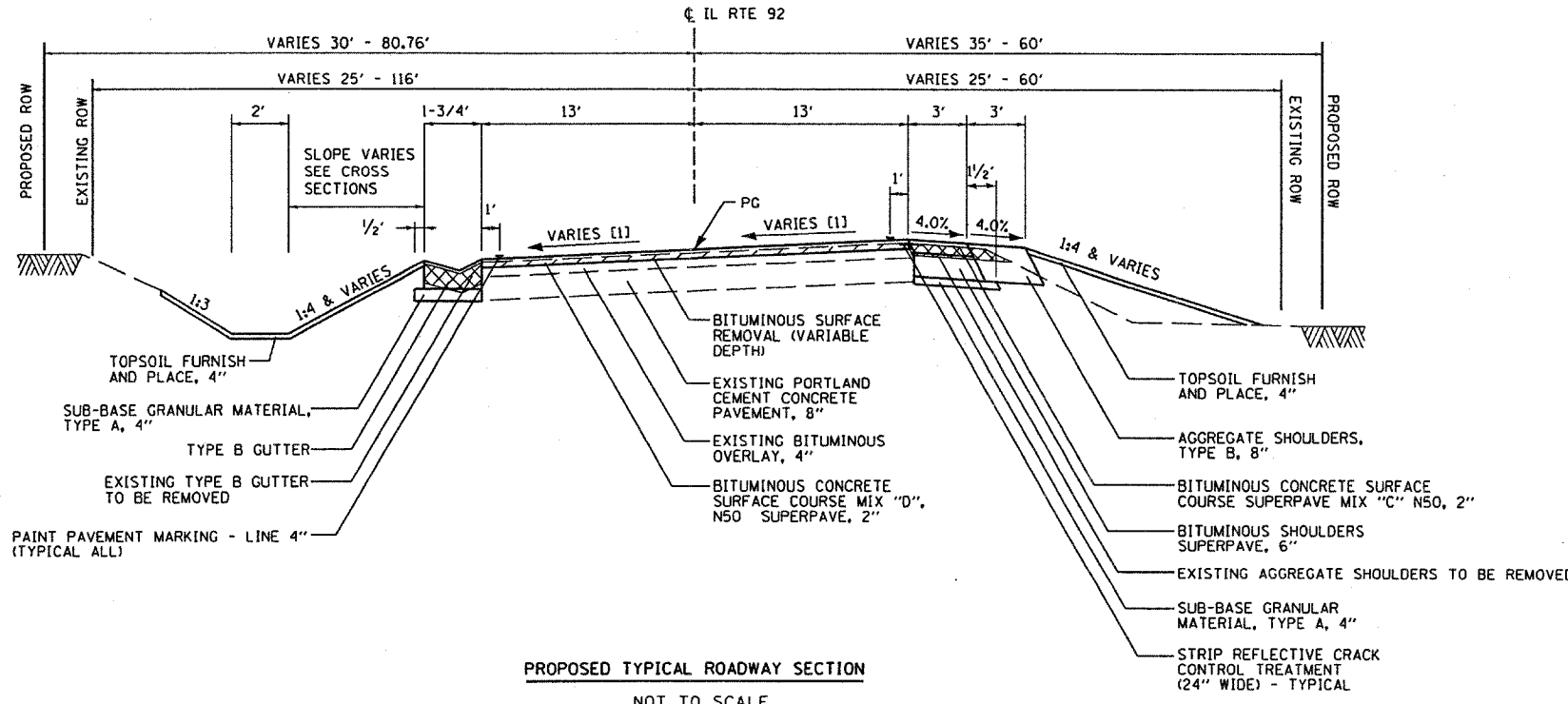
FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	42MFT-BR	ROCK ISLAND	90	8
STA. 407+30		TO STA. 410+00		
EXISTING CONDITIONS:				
CONTRACT 64641				



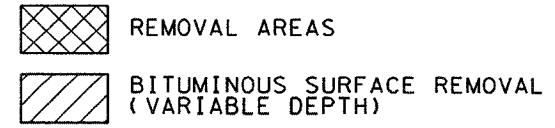
**PROPOSED TYPICAL ROADWAY SECTION**  
 NOT TO SCALE  
 STA 407+70.00 TO STA 411+00.00  
 [1] SEE PAVEMENT TRANSITION SCHEDULE ON SHEET 4

**STRUCTURAL DESIGN DATA**

TYPE OF CONSTRUCTION:	RECONSTRUCTION
PAVEMENT DESIGN:	FLEXIBLE
ROAD CLASSIFICATION	CLASS III
STRUCTURAL DESIGN TRAFFIC:	
YEAR	2003
PV	6,280
SU	345
MU	275
% SDT IN DESIGN LANE	
PV	91.0%
SU	5.0%
MU	4.0%
TRAFFIC FACTOR	
MINIMUM SOIL SUPPORT:	IBR = 2.95
STRUCTURAL NUMBER:	Dt = 5.2
PAVEMENT STRUCTURE	
BC SC SUPER "D" N50 (0.40)	2"
BCBC SUP IL- 19.0 N50 (0.33)	10"
SUB GRAN MAT A (0.11)	12"



**PROPOSED TYPICAL ROADWAY SECTION**  
 NOT TO SCALE  
 STA 411+00.00 TO STA 411+46.00  
 [1] SEE PAVEMENT TRANSITION SCHEDULE ON SHEET 4



- NOTE:
1. BITUMINOUS CONCRETE PAVEMENT (FULL DEPTH) SUPERPAVE, 12" CONSISTS OF BITUMINOUS CONCRETE SURFACE COURSE MIX "D", N50 SUPERPAVE, 2" AND BITUMINOUS CONCRETE BINDER COURSE IL-19.0, N50, 10"
  2. SEE SHEET 6 FOR APPLICATION RATES.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 FAP ROUTE 599 (IL 92)  
 SECTION 42MFT-BR  
 ROCK ISLAND COUNTY

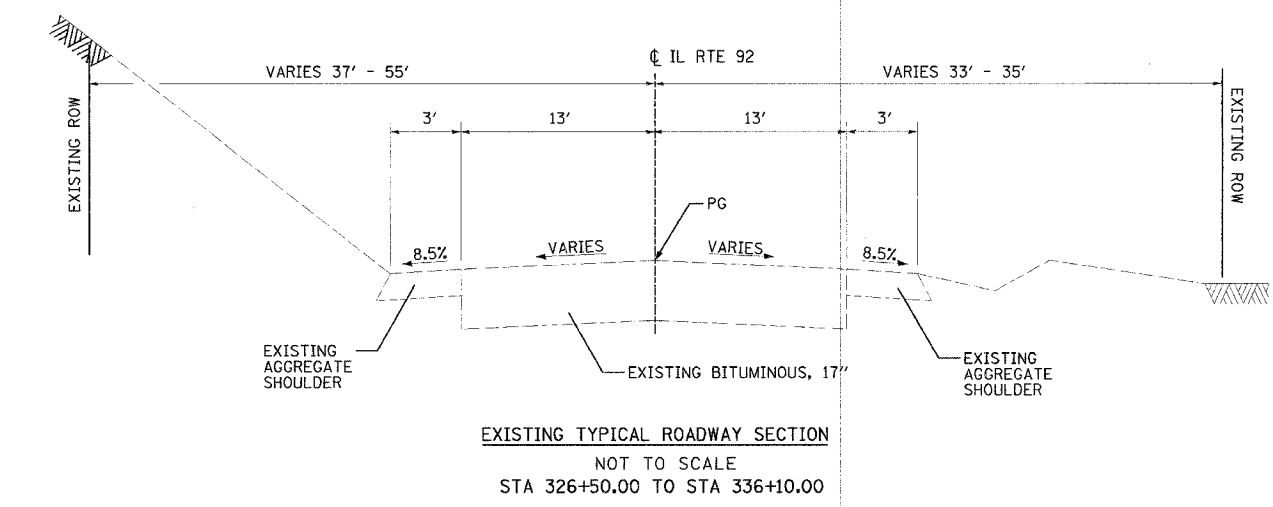
**TYPICAL SECTIONS**

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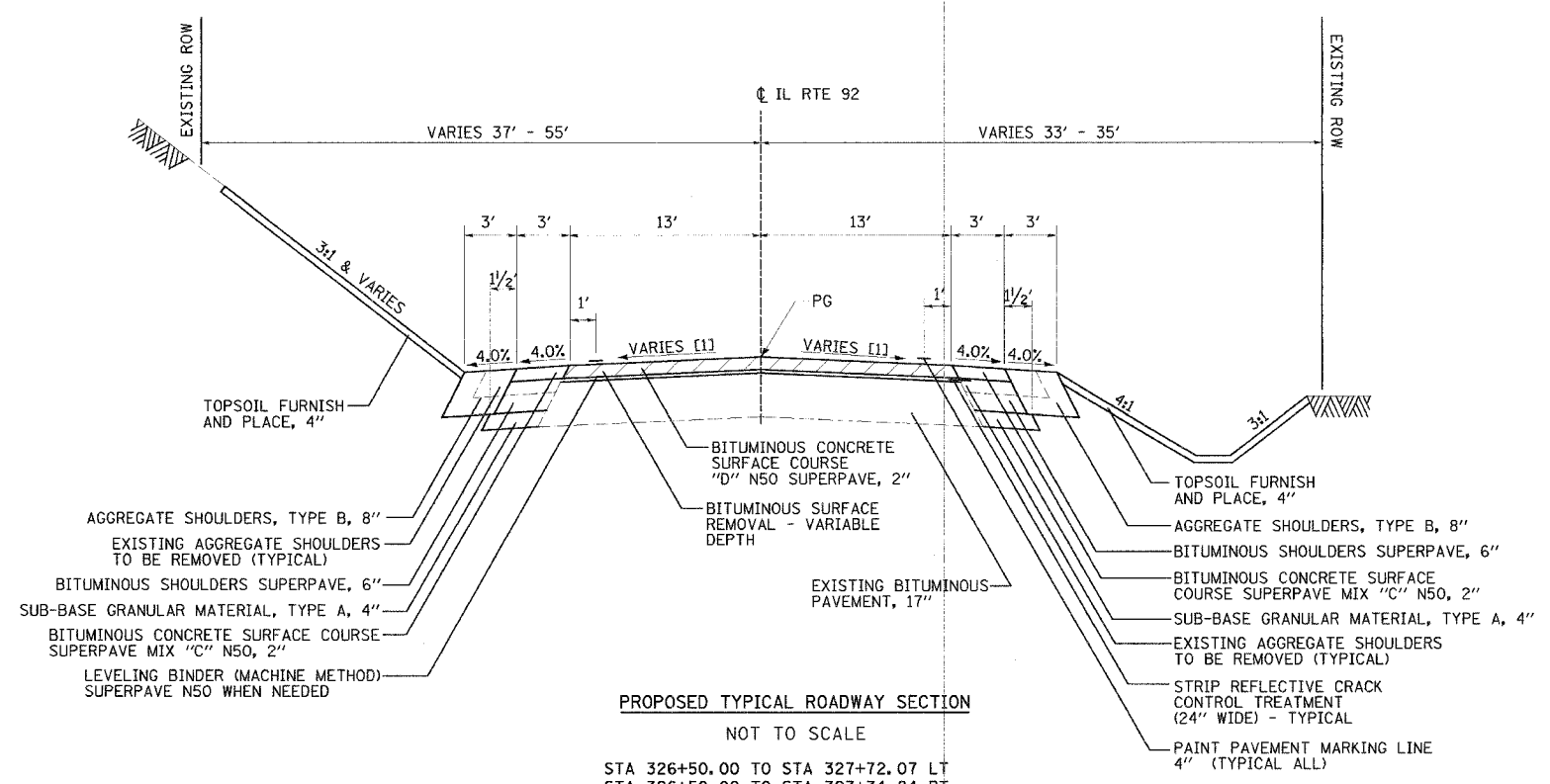
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 BY: \_\_\_\_\_  
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 CHECKED: \_\_\_\_\_  
 PLAN: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
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DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 PLAN: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 NO. \_\_\_\_\_





**EXISTING TYPICAL ROADWAY SECTION**  
NOT TO SCALE  
STA 326+50.00 TO STA 336+10.00



**PROPOSED TYPICAL ROADWAY SECTION**  
NOT TO SCALE

STA 326+50.00 TO STA 327+72.07 LT  
STA 326+50.00 TO STA 327+34.84 RT  
STA 335+00.00 TO STA 336+10.00

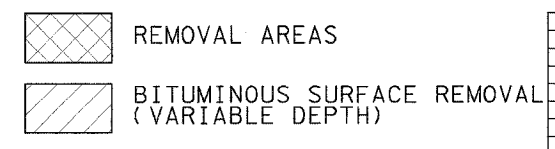
[1] SEE PAVEMENT TRANSITION SCHEDULE

**PAVEMENT TRANSITION SCHEDULE**

STA	CROSS SLOPE		PAVEMENT ELEVATIONS			EDGE OF BITUMINOUS SHOULDER ELEVATIONS	
	LT	RT	PG	LT	RT	LT	RT
326+50.00	2.30%	0.37%	593.11	592.81	593.16	592.69	593.04
326+98.25	2.30%	2.30%	592.34	592.04	592.64	591.92	592.52
327+40.75	4.00%	4.00%	591.52	591.00	592.04	590.88	591.92
328+96.58	4.00%	4.00%	587.64	587.12	588.16	587.00	588.04
329+46.58	2.00%	2.00%	586.52	586.26	586.78	586.14	586.66
329+96.58	2.00%	0.00%	585.58	585.32	585.58	585.20	585.46
330+46.58	2.00%	2.00%	584.82	584.56	584.56	584.44	584.44
331+25.00	2.00%	2.00%	583.99	583.73	583.73	583.61	583.61
331+50.00	1.50%	1.50%	583.82	583.63	583.63	583.51	583.51
335+63.75	1.50%	1.50%	587.56	587.37	587.37	587.25	587.25
335+95.75	0.22%	1.50%	588.25	588.22	588.06	588.10	587.94
336+10.00	0.35%	0.93%	588.56	588.61	588.44	588.49	588.32

**NOTE:**

- BITUMINOUS CONCRETE PAVEMENT (FULL DEPTH) SUPERPAVE, 12" CONSISTS OF BITUMINOUS CONCRETE SURFACE COURSE MIX "D", N50 SUPERPAVE, 2" AND BITUMINOUS CONCRETE BINDER COURSE IL-19.0, N50, 10"
- SEE SHEET 6 FOR APPLICATION RATES.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
FAP ROUTE 599 (IL 92)  
SECTION 42MFT-T  
ROCK ISLAND COUNTY

TYPICAL SECTIONS

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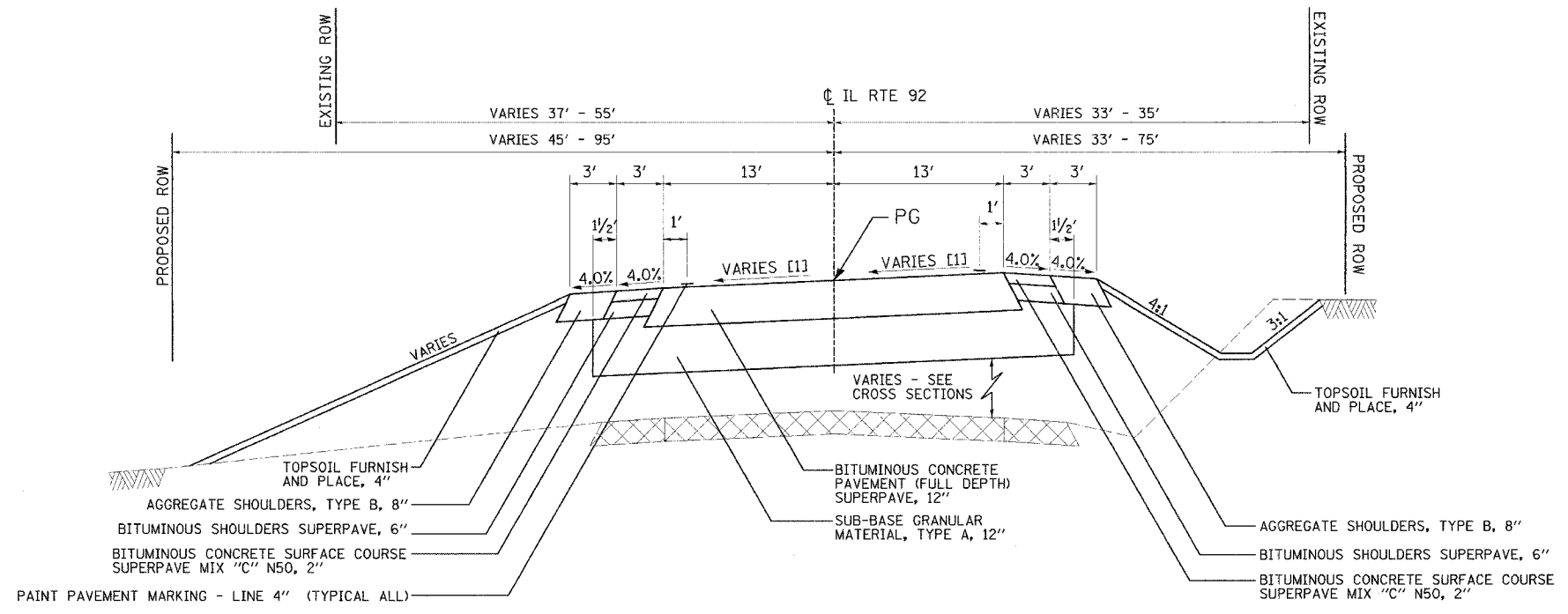
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DATE \_\_\_\_\_  
BY \_\_\_\_\_  
CHECKED \_\_\_\_\_  
DATE \_\_\_\_\_  
DESIGNED \_\_\_\_\_  
DATE \_\_\_\_\_  
DRAWN \_\_\_\_\_  
DATE \_\_\_\_\_

08/31/2005  
DATE TIME  
\*DGN-SPEC\*  
\*REF-ARE\*



F&P ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	42MFT-T	ROCK ISLAND	90	11
STA. 331+02.50 TO STA. 335+00				
STA. 11+50 TO STA. 13+04.22				
EXISTING CONDITIONS:				

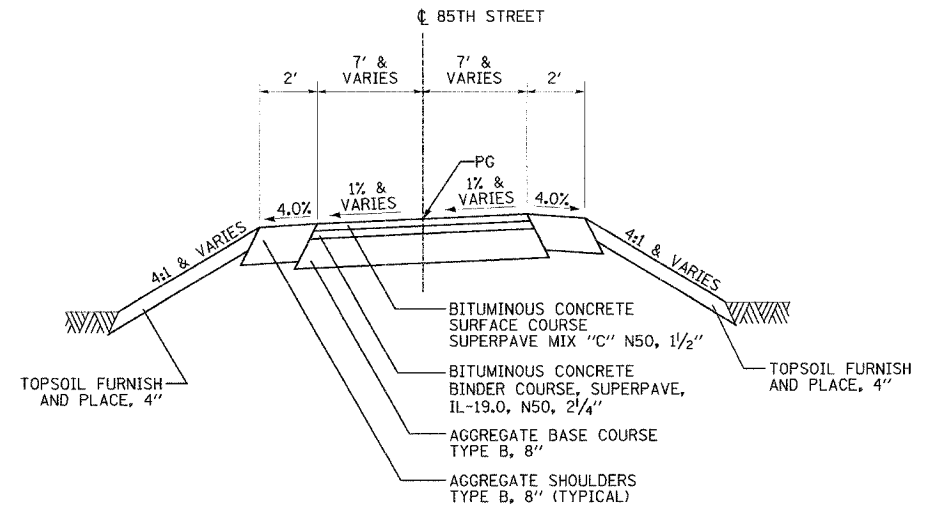
CONTRACT 64641



**PROPOSED TYPICAL ROADWAY SECTION**  
NOT TO SCALE

STA 331+02.50 TO STA 335+00.00 LT  
STA 331+20.60 TO STA 335+00.00 RT

[1] SEE PAVEMENT TRANSITION SCHEDULE ON SHEET 6



**PROPOSED TYPICAL ROADWAY SECTION - 85TH STREET**

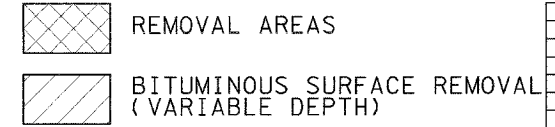
STA 11+50.00 TO STA 13+04.22 LT  
NOT TO SCALE

**APPLICATION RATES**

LEVELING BINDER	112 LBS/SQ YD IN
AGGREGATE SHOULDERS, TYPE B	2.05 TONS/CU YD
AGGREGATE BASE COURSE, TYPE B	2.05 TONS/CU YD
BITUMINOUS CONCRETE BINDER COURSE	115 LBS/SQ YD IN
BITUMINOUS CONCRETE SURFACE COURSE	112 LBS/SQ YD IN
INCIDENTAL BITUMINOUS SURFACING	112 LBS/SQ YD IN
ROCK FILL	1.5 TON/CU YD

**NOTE:**

1. BITUMINOUS CONCRETE PAVEMENT (FULL DEPTH) SUPERPAVE, 12" CONSISTS OF BITUMINOUS CONCRETE SURFACE COURSE MIX "D", N50 SUPERPAVE, 2" AND BITUMINOUS CONCRETE BINDER COURSE IL-19.0, N50, 10"



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
FAP ROUTE 599 (IL 92)  
SECTION 42MFT-T  
ROCK ISLAND COUNTY

TYPICAL SECTIONS

DRAWN BY: HLC

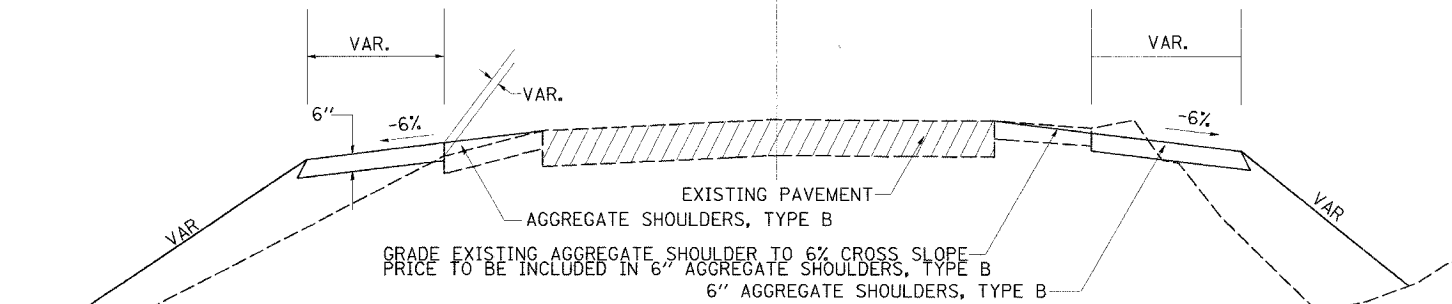
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-REV-

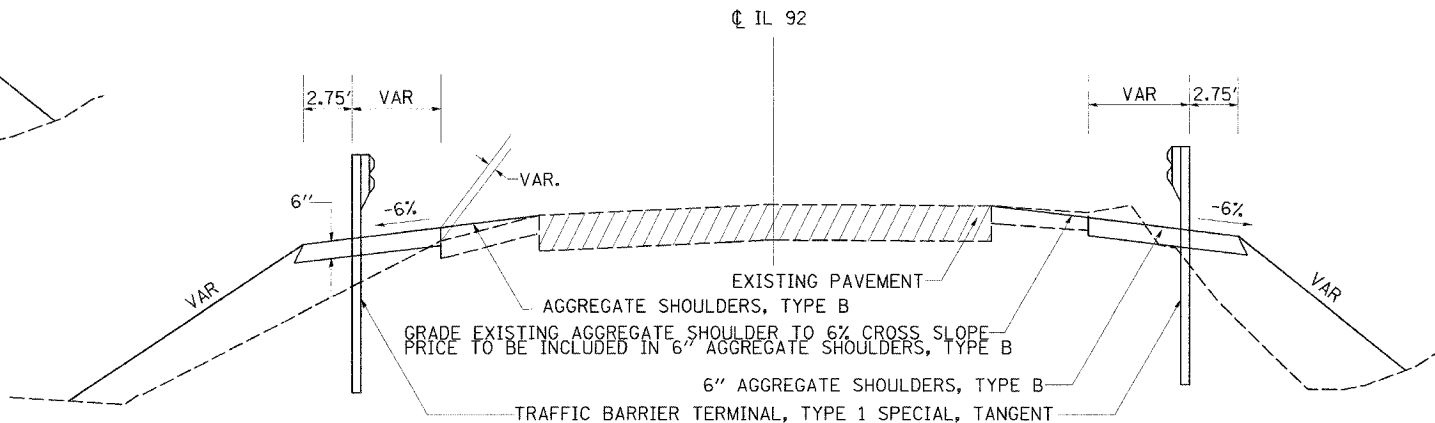
F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	*	ROCK ISLAND	90	12
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

# TYPICAL SECTIONS

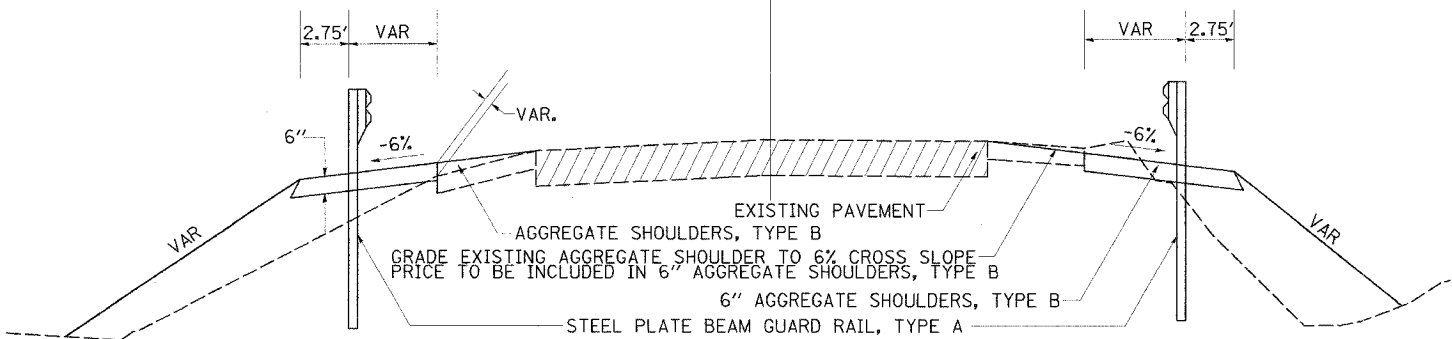
LT STA. 1074+31.28 - LT STA. 1074+85.78  
 RT STA. 1075+03.86 - RT STA. 1075+13.08  
 RT STA. 1078+46.03 - RT STA. 1079+31.31  
 LT STA. 1079+47.01 - LT STA. 1079+98.74  
 CL IL 92



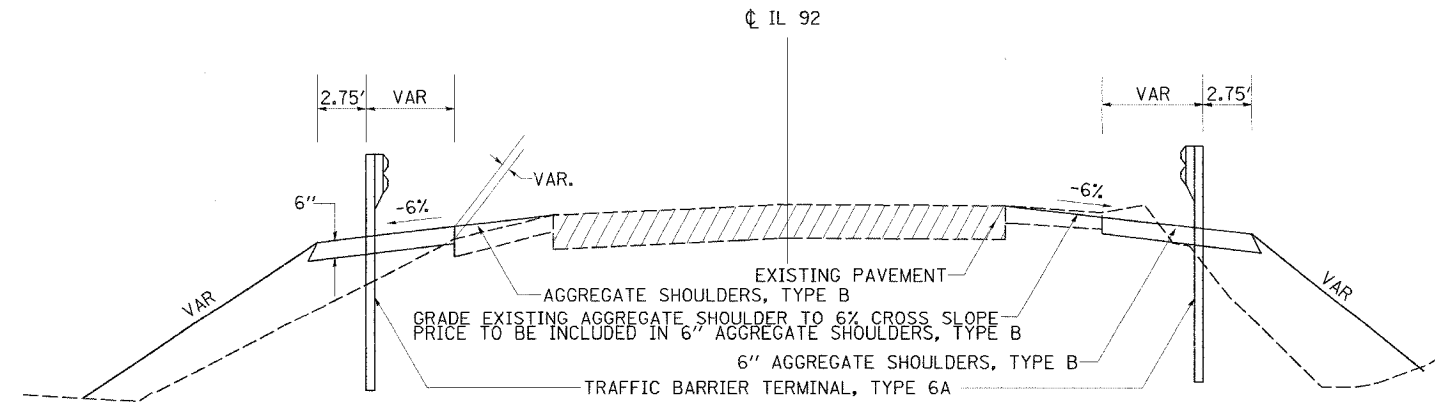
LT STA. 1074+86.58 - LT STA. 1075+35.98  
 RT STA. 1075+13.08 - RT STA. 1075+62.86  
 RT STA. 1077+96.25 - RT STA. 1078+46.03  
 LT STA. 1078+96.79 - RT STA. 1079+47.01  
 CL IL 92



LT STA. 1075+36.00 - LT STA. 1076+09.27  
 RT STA. 1075+62.86 - RT STA. 1076+00.24  
 RT STA. 1077+21.54 - RT STA. 1077+96.25  
 LT STA. 1077+33.69 - LT STA. 1078+96.79  
 CL IL 92



RT STA. 1076+00.24 - RT STA. 1076+33.86  
 LT STA. 1076+08.27 - LT STA. 1076+43.15  
 RT STA. 1076+87.92 - RT STA. 1077+21.54  
 LT STA. 1076+99.80 - LT STA. 1077+33.69  
 CL IL 92



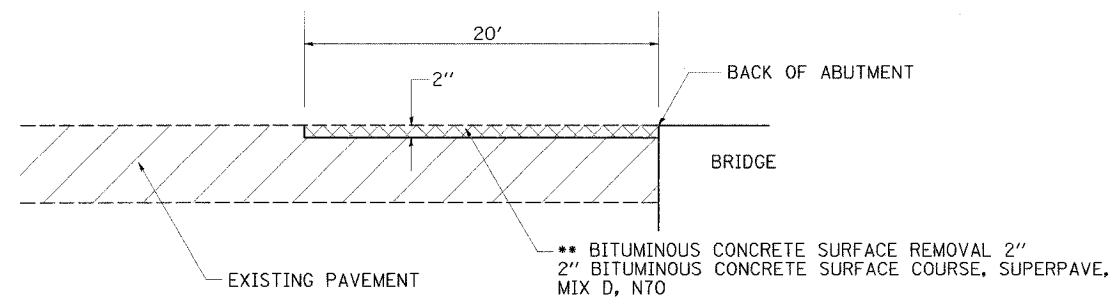
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 PLOT SCALE = 1/4" = 10'-0"  
 USER NAME = #105819

F.A. P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	*	ROCK ISLAND	90	13
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

# TYPICAL SECTIONS

## BITUMINOUS SURFACE REMOVAL - BUTT JOINT

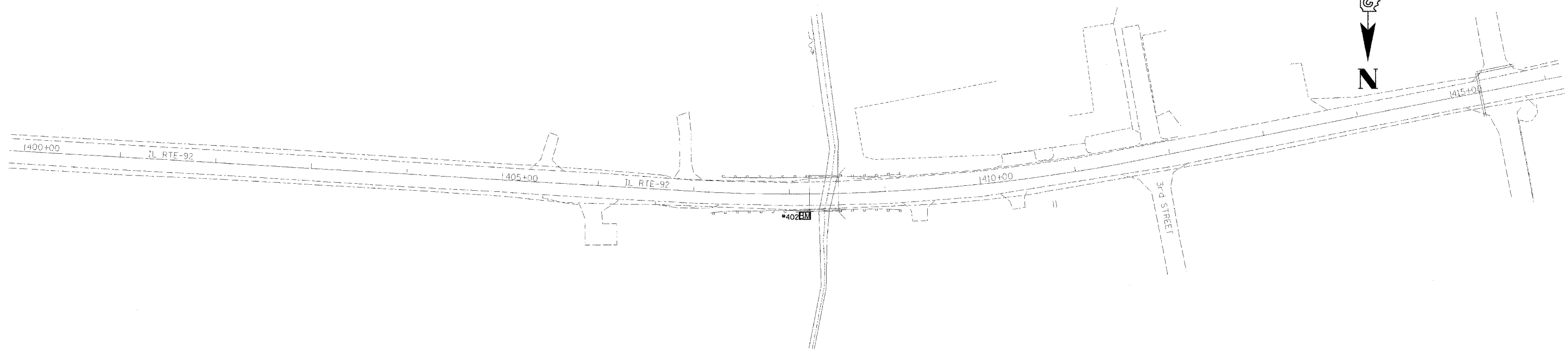
STA 1076+19.54 TO STA 1076+39.54  
 STA 1076+93.71 TO STA 1077+13.71



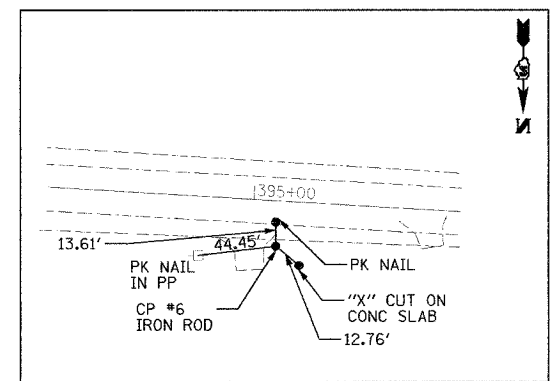
• 112 LBS/ IN / SQ YD

PLOT DATE = 8/31/2005  
 PLOT SCALE = 1/8" = 1'-0"  
 USER NAME = #105118

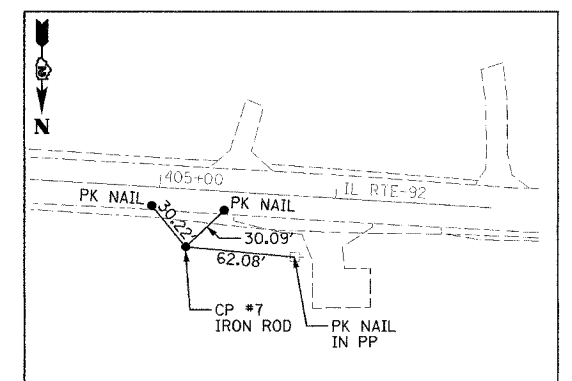
FAP NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-BR	ROCK ISLAND	90	14
STA. 404+30		TO STA. 411+46		
EXISTING CONDITIONS:				
CONTRACT 64641				



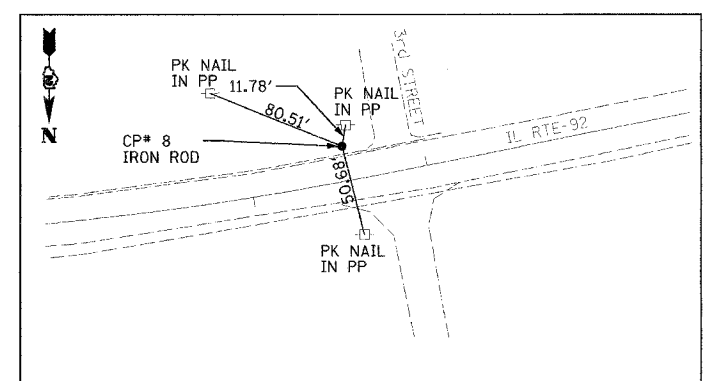
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BY	
DESIGNED	
CHECKED	
IN CHARGE	
DATE	
BY	
DESIGNED	
CHECKED	
IN CHARGE	



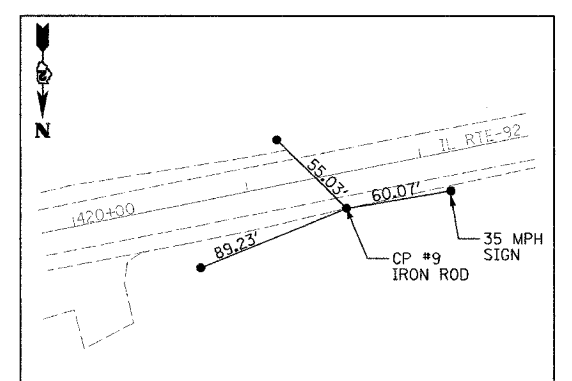
CONTROL POINT #6  
 STA 395+13.89, 25.46 RT  
 N 1738880.72  
 E 2147608.30  
 ELEV. 580.10



CONTROL POINT #7  
 STA 405+16.79, 32.33 RT  
 N 1738947.22  
 E 2146607.52  
 ELEV. 570.23



CONTROL POINT #8  
 STA 411+54.44 19.73' LT  
 N 1738876.68  
 E 2145973.68  
 ELEV. 573.81



CONTROL POINT #9  
 STA 421+53.26 19.94' LT  
 N 1738720.66  
 E 2144986.57  
 ELEV. 570.97

**BENCHMARKS**

BM 402 CHIS "□" ON NORTHEAST WINGWALL OF BRIDGE JUST EAST OF ANDALUSIA STA. 408+20.3 20.4 LT ELEV. 574.03

BM 403 NORTHEAST BOLT @ ABANDONED TEXACO SOUTHWEST QUAD 3rd ST. & IL 92 (BASE FOR GAS SIGN) STA. ELEV. 574.37

NOTE:  
 BASIS OF BEARINGS AND COORDINATES IS ILLINOIS STATE PLANE (NAD83) WEST ZONE. GROUND VALUES SHOWN (COMBINED GRID FACTOR FOR PROJECT AREA 0.999942580). NGS MONUMENTS BUR40-1A & BUR40-1B WERE USED FOR CONTROL.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 FAP 599 (IL 92)  
 SECTION 42MFT-BR  
 ROCK ISLAND COUNTY  
 ALIGNMENT & TIES  
 BENCHMARKS  
 DRAWN BY: HLC

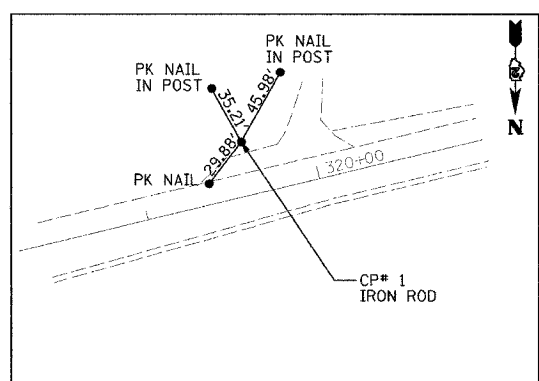
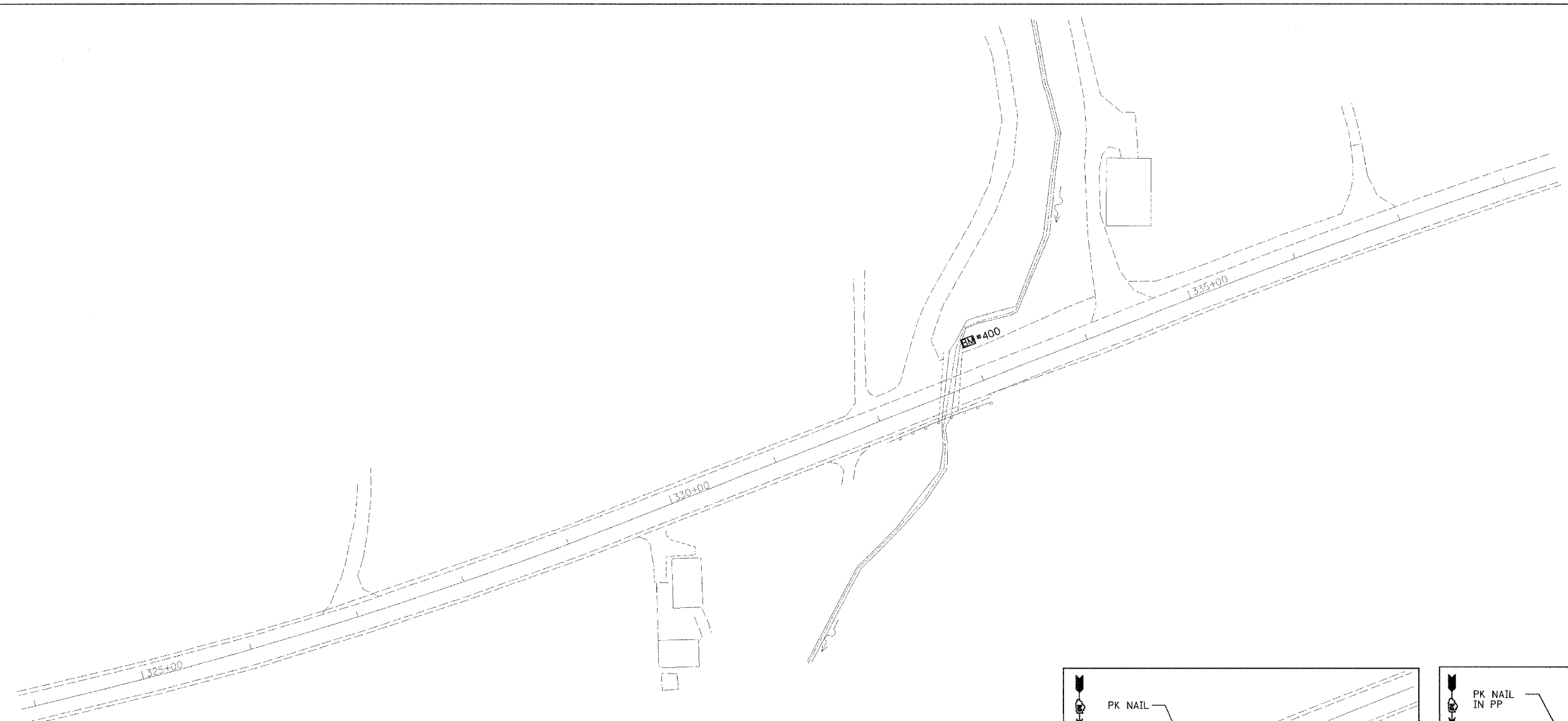
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FAP NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-T	ROCK ISLAND	90	15
STA. 326+50		TO STA. 336+10		

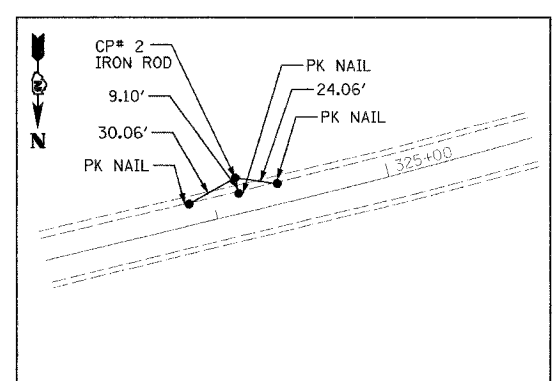
EXISTING CONDITIONS: CONTRACT 64641



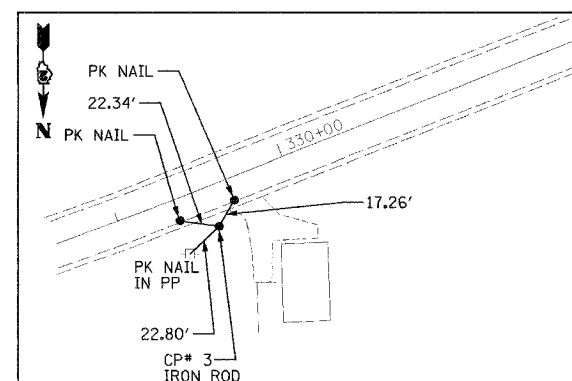
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PLAN	DATE
SURVEYED	
NOTE G.O.K. ALIGNMENT CHECKED	



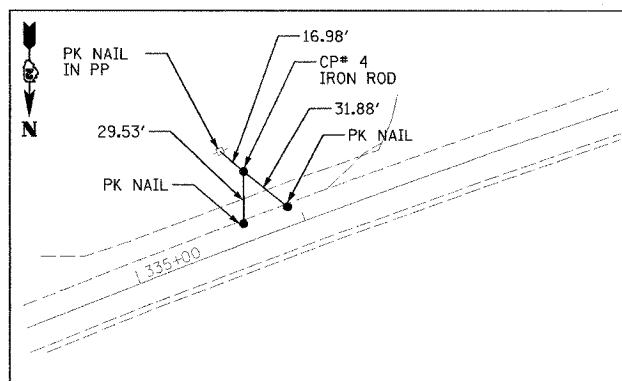
**CONTROL POINT #1**  
 STA 319+61.77, 30.64 LT  
 N 1740274.38  
 E 2154966.55  
 ELEV. 589.62



**CONTROL POINT #2**  
 STA 324+15.05, 20.37 LT  
 N 1740178.69  
 E 2154523.33  
 ELEV. 595.51



**CONTROL POINT #3**  
 STA 329+52.68, 23.18 RT  
 N 1740060.24  
 E 2153997.29  
 ELEV. 585.98



**CONTROL POINT #4**  
 STA 335+77.21, 38.46 LT  
 N 1739774.26  
 E 2153438.02  
 ELEV. 589.74

**BENCHMARKS**

BM 400 CUT "□" SOUTH EAST CORNER OF WEST WINGWALL @ SOUTH WEST QUAD OF IL 92 & 85th ST WEST STA. 332+97.0 37.8 LT ELEV. 579.76

BM 401 CUT "□" ON SOUTH HEADWALL .2 MILES WEST OF 85th ST WEST STA. 344+60.3 17.9 LT ELEV. 589.23

**NOTE:**  
 BASIS OF BEARINGS AND COORDINATES IS ILLINOIS STATE PLANE (NAD83) WEST ZONE. GROUND VALUES SHOWN (COMBINED GRID FACTOR FOR PROJECT AREA 0.999942580). NGS MONUMENTS BUR40-1A & BUR40-1B WERE USED FOR CONTROL.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 FAP 599 (IL 92)  
 SECTION 42MFT-T  
 ROCK ISLAND COUNTY  
 ALIGNMENT & TIES  
 BENCHMARKS  
 DRAWN BY: HLC

08/31/2005  
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PAVEMENT SCHEDULE

FAP NO:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-BR & 42MFT-T	ROCK ISLAND	90	16
STA.	TO STA.			
EXISTING CONDITIONS:				
<b>CONTRACT 64641</b>				

LOCATION	LENGTH	BIT SUR RM (VAR DP) (SQ YD)	PAVEMENT REMOVAL (SQ YD)	SUB GRAN MAT A 12 (SQ YD)	SUB GRAN MAT A 4 (SQ YD)	BIT C PVT FD SUP 12 (SQ YD)	LEV BIND MM SUPER N50 (TON)	LEV BIND HM SUPER N50 (TON)	BC BC SUP IL-19.0 N50 (TON)	BC SC SUPER "D", N50 (TON)	BC SC SUPER "C", N50 (TON)	BIT SHLD SUPER 6 (SQ YD)	AGG SHLDS B (TON)	INCD BIT SUR SUPER (TON)	AGG BASE CSE B (TON)
SECTION 42MFT-BR															
404+30.00	405+00.00	70.0	200.7				10.3	1.1		22.7					
411+00.00	411+46.00	46.0	132.4		34.5					14.9					
405+00.00	407+70.00	270.0							112.2	87.7					
404+30.00	407+70.00	340.0			179.7										
407+70.00	411+00.00	330.0	936.3	1,205.7		953.3									
404+30.00	411+46.00	716.0								18.1		161.1	102.6		
405+50.00	LT ENTRANCE													10.4	42.3
406+85.00	LT ENTRANCE													17.9	72.7
406+00.00	RT ENTRANCE													12.4	50.4
406+91.00	RT ENTRANCE													5.5	22.2
410+37.00	LT ENTRANCE													55.4	224.5
(INCLUDES PARKING LOT)															
409+35.00 & 410+37.00	RT ENTRANCE													28.2	114.4
SUBTOTAL SECTION 42MFT-BR		333.1	936.3	1,205.7	214.2	953.3	10.3	1.1	112.2	125.3	18.1	161.1	102.6	129.8	526.5
ROUNDED SUBTOTAL SECTION 42MFT-BR		334	937	1,206	215	954	11	2	113	126	19	162	103	130	527
326+50.00	329+50.00	300.0	645.0												
335+55.00	336+10.00	55.0	79.4												
330+00.00	335+00.00	500.0		1,455.8	1,611.1										
327+77.00	331+02.50	325.5				1,444.4									
327+00.00	328+00.00	100.0					4.5	0.4							
335+60.00	336+00.00	40.0					3.5	0.4							
328+00.00	330+00.00	200.0							70.7						
335+00.00	335+60.00	60.0							39.0						
326+50.00	330+00.00	350.0								113.6					
335+00.00	336+10.00	110.0								35.7					
326+50.00	336+10.00	960.0									51.4	457.4	131.3		154.5
11+50.00	13+04.20	154.2	351.1						35.7		31.8				
332+30.00	RT DRAIN FOR AGGREGATE BASE COURSE				3.3										
332+30.00	LT DRAIN FOR AGGREGATE BASE COURSE				4.0										
327+10.00	RT ENTRANCE													4.5	18.3
327+10.00	LT ENTRANCE													23.2	94.1
329+78.00	RT ENTRANCE													13.9	56.5
331+52.00	RT ENTRANCE														105.9
332+00.00	LT ENTRANCE													12.4	50.3
334+31.00	LT ENTRANCE													28.4	115.3
100+00.00	101+00.00 EMERGENCY ACCESS BYPASS	100.0													142.3
SUBTOTAL SECTION 42MFT-T		724.4	1,806.9	1,618.4	191.2	1,444.4	8.0	0.8	145.4	149.3	83.2	457.4	131.3	82.4	737.2
ROUNDED SUBTOTAL SECTION 42MFT-T		725	1,807	1,619	192	1,445	8	1	146	150	84	458	132	83	738
SCHEDULE TOTAL		1,059	2,744	2,825	407	2,399	19	3	259	276	103	620	235	213	1,265

TREE REMOVAL SCHEDULE

LOCATION	TREE REMOVAL (6-15 UNITS DIAMETER) (UNITS)	
SECTION 42MFT-BR		
408+54.9	54.40 LT	12
408+61.8	56.80 LT	12
SUBTOTAL SECTION 42MFT-BR		24
SECTION 105-T		
332+63.8	40.9 RT	12
332+55.4	52.2 RT	12
332+73.7	60.5 RT	12
332+67.0	64.9 RT	12
332+52.9	66.9 RT	12
332+48.2	62.8 RT	12
332+46.1	68.1 RT	12
332+38.7	45.1 RT	12
332+28.7	46.2 RT	12
332+26.4	46.5 RT	12
332+19.2	50.5 RT	12
332+16.9	50.9 RT	12
332+13.2	50.2 RT	12
332+06.2	47.4 RT	12
332+02.2	48.1 RT	12
332+00.0	41.4 RT	12
332+28.7	54.4 RT	12
332+25.1	57.5 RT	12
332+22.4	61.3 RT	12
332+14.4	62.0 RT	12
332+03.1	59.6 RT	12
333+84.2	78.8 LT	12
333+83.8	81.3 LT	12
SUBTOTAL SECTION MFT-T		276
SCHEDULE TOTAL		300

PIPE CULVERT SCHEDULE

LOCATION	PIPE CULVERTS CLASS D TYPE 1, 15" (FOOT)	PIPE CULVERTS CLASS D TYPE 2, 15" (FOOT)	STEEL END SECTIONS 15" (EACH)			
SECTION 42MFT-BR						
405+36.98	32.91 LT	405+64.90	35.03 LT	28		2
409+19.06	35.21 RT	409+47.89	31.51 RT	30		2
406+65.15	45.40 LT	407+08.07	50.14 LT		44	2
SUBTOTAL SECTION 42MFT-BR				58	44	6
SECTION 42MFT-T						
334+55.5	42.6 LT	334+05.5	61.5 LT	54		2
SUBTOTAL SECTION 42MFT-T				54		2
FROM OTHER SCHEDULES						1
SCHEDULE TOTAL				112	44	9

DELINEATOR SCHEDULE

STATION	OFFSET	DELINEATORS (EACH)
SECTION 42MFT-BR		
408+70.30	38.9 RT	1
SUBTOTAL SECTION 42MFT-BR		1
SECTION 42MFT-T		
331+92.9	63.6 RT	1
332+96.6	53.9 LT	1
SUBTOTAL SECTION 42MFT-T		2
SCHEDULE TOTAL		3

PERMANENT SURVEY MARKERS  
TYPE II SCHEDULE

LOCATION	PERMANENT SURVEY MARKERS TYPE II (EACH)
SECTION 42MFT-BR	
SECTION 42MFT-T	1
SCHEDULE TOTAL	2
NOTE: LOCATIONS TO BE DETERMINED BY THE ENGINEER	

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
FAP ROUTE 599 (IL 92)  
SECTION 42MFT-BR & 42MFT-T  
ROCK ISLAND COUNTY  
SCHEDULE OF QUANTITIES  
DRAWN BY: HLC



EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION (CU YD)	CHANNEL EXCAVATION (CU YD)	EARTH EXCAVATION TO BE USED AS EMBANKMENT ADJUSTED FOR SHRINKAGE * (CU YD)	EMBANKMENT * (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) * (CU YD)	TOPSOIL FURNISH AND PLACE 4" (SQ YD)
SECTION 42MFT-BR						
STAGE 1	449		359	364	-5	
STAGE 2	706		565	366	199	1,035
STAGE 3	117		93		93	
STAGE 4	774		619	398	221	1,638
CHANNEL		80				
SUBTOTAL SECTION 42MFT-BR	2,046	80	1,636	1,128	508	2,673
SECTION 42MFT-T						
STA 326+00 TO 336+50	1,358		1,086	3,851	-2,765	3,870
85TH STREET	12		10	383	-373	531
CHANNEL		112		12	-12	
EMERGENCY ACCESS BYPASS - CONSTRUCTION	7		6	227	-221	
EMERGENCY ACCESS BYPASS - REMOVAL	227		182	7	175	634
SUBTOTAL SECTION 42MFT-T	1,604	112	1,284	4,480	-3,196	5,035
SCHEDULE TOTAL	3,650	192	2,920	5,608	-2,688	7,708

NOTES:  
1. SHRINKAGE FACTOR USED = 20%  
2. TOPSOIL FURNISH AND PLACE IS NOT INCLUDED IN ANY OTHER QUANTITIES.  
3. (\*) PROVIDED FOR INFORMATION ONLY.  
4. IF QUANTITY FOR EARTHWORK BALANCE IS NEGATIVE (-), THEN THIS QUANTITY IS TO BE PAID FOR AS FURNISHED EXCAVATION.

PAVEMENT MARKING SCHEDULE

LOCATION	PAINT PAVEMENT MARKING - LINE 4				RAISED REF PVT MKR (EACH)
	STATION	OFFSET	TO STATION	OFFSET	
SECTION 42MFT-BR					
404+30.00	12	LT	411+46.00	12	LT
404+30.00	12	RT	411+46.00	12	RT
404+30.00	0		411+46.00	0	
FIRST APPLICATION SUBTOTAL					2,864
SECOND APPLICATION SUBTOTAL					2,864
SECTION 42MFT-BR SUBTOTAL					19
SECTION 42MFT-T					
326+50.00	12	LT	336+10.00	12	LT
326+50.00	12	RT	326+10.00	12	RT
326+50.00	0.3	LT	326+10.00	0.3	LT
326+50.00	0.3	RT	326+10.00	0.3	RT
326+50.00	0		326+10.00		
FIRST APPLICATION SUBTOTAL					3,840
SECOND APPLICATION SUBTOTAL					3,840
SECTION 42MFT-T SUBTOTAL					25
SCHEDULE TOTAL					44

GUARDRAIL REMOVAL

LOCATION	GUARDRAIL REMOVAL (FOOT)
SECTION 42MFT-BR	
407+29.37 15.91 LT	90.5
408+53.04 16.51 LT	38.6
408+91.66 15.45 LT	25.9
407+18.49 21.89 RT	24.4
407+42.71 19.22 RT	78.6
408+51.94 18.04 RT	38.9
408+90.79 18.59 RT	25.1
SUBTOTAL SECTION 42MFT-BR	322.0
ROUNDED SUBTOTAL 42MFT-BR	322
SECTION 42MFT-T	
331+99.32 20.42 RT	25.3
332+24.61 19.33 RT	50.2
332+74.80 19.27 RT	25.0
SUBTOTAL SECTION 42MFT-T	100.5
ROUNDED SUBTOTAL 42MFT-T	101
SCHEDULE TOTAL	423

FIELD TILE \*

LOCATION	EXPLORATION TRENCH 52" DEPTH (FT)	PIPE DRAINS				FIELD TILE JUNCTION VAULTS 3' DIA (EACH)	MISCELLANEOUS CONCRETE (CU YD)
		6" (FT)	8" (FT)	10" (FT)	12" (FT)		
SECTION 42MFT-T	50	50	50	50	50	1	1
SCHEDULE TOTAL	50	50	50	50	50	1	1

\* CONTINGENCY QUANTITIES IN THE EVENT FIELD TILE IS ENCOUNTERED.

CONCRETE GUTTER, TYPE B & CLASS SI (OUTLET), SPECIAL

LOCATION	GUTTER TYPE B (FOOT)	CLASS SI CONCRETE (OUTLET), SPECIAL (CUBIC YARD)	GRATES & COVERS, TY 2B (EACH)	PIPE DRAINS 15" (FOOT)	STEEL END SECTIONS 15" (EACH)
SECTION 42MFT-BR					
407+70.00 TO 408+50.60 LT	80.6				
408+50.60 TO 408+89.40 LT		2.2			
408+89.40 TO 411+70.10 LT	280.7				
408+70.00 LT			1	54	1
FROM OTHER SCHEDULES					8
SCHEDULE TOTAL	362	2.2	1	54	9

TEMPORARY RAMP SCHEDULE

LOCATION	AREA (SQ YD)
SECTION 42MFT-BR	
404+30.00 TO 404+33.00	9
411+43.00 TO 411+46.00	9
SECTION 42MFT-BR SUBTOTAL	18
SECTION 42MFT-T	
326+50.00 TO 326+53.00	9
336+07.00 TO 336+10.00	9
SECTION 42MFT-T SUBTOTAL	18
SCHEDULE TOTAL	36

RIP RAP SCHEDULE

LOCATION	STONE RIP RAP CLASS A5 (SQ YD)	FILTER FABRIC FOR USE WITH RIP RAP (SQ YD)
SECTION 42MFT-T		
332+54.00 RT	170	170
333+42.00 LT	103	103
SCHEDULE TOTAL	273	273

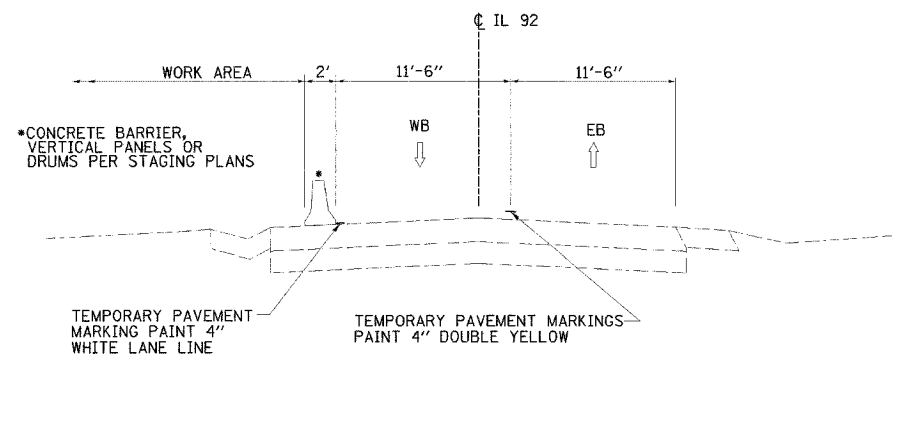
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
FAP ROUTE 599 (IL 92)  
SECTION 42MFT-BR & 42MFT-T  
ROCK ISLAND COUNTY  
SCHEDULE OF QUANTITIES  
DRAWN BY: HLC

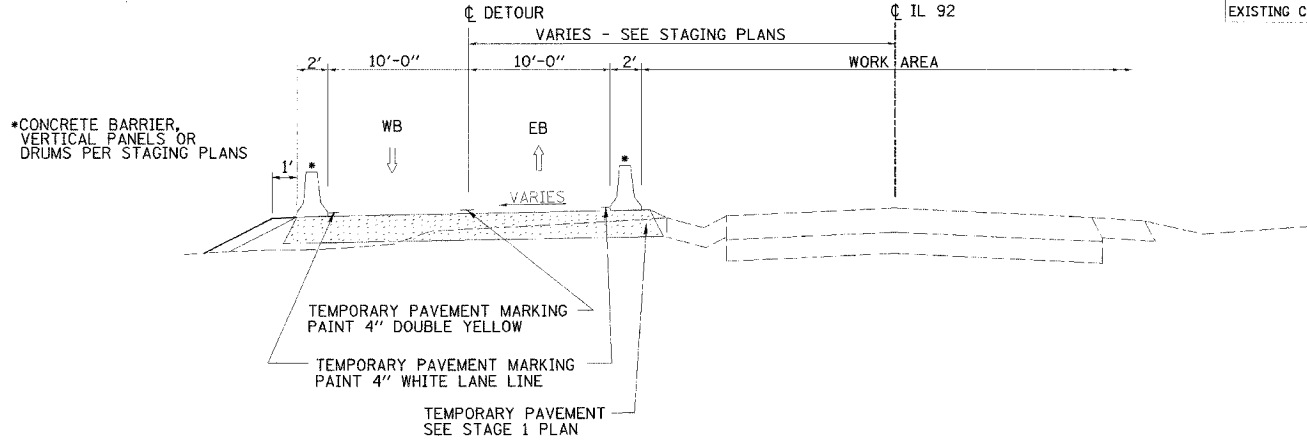


FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	42MFT-BR	ROCK ISLAND	90	19
STA. 404+30		TO STA. 411+46		
EXISTING CONDITIONS:				

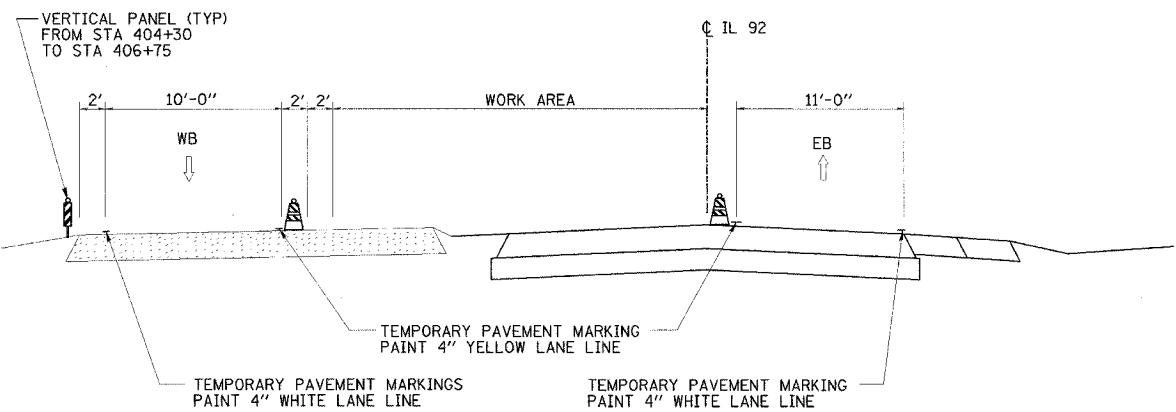
CONTRACT 64641



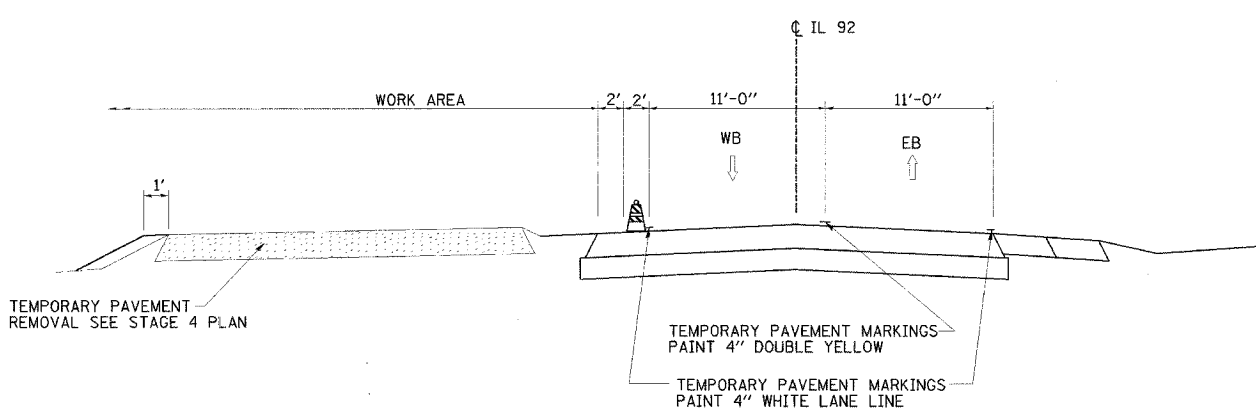
**STAGE 1**  
STA 406+25 TO STA 408+54



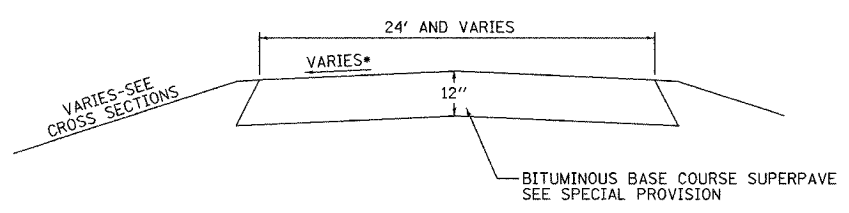
**STAGE 2**  
STA 404+30 TO STA 411+63.5



**STAGE 3**  
STA 409+20 TO STA 410+40



**STAGE 4**  
STA 404+30 TO STA 411+63.5



**TEMPORARY PAVEMENT TYPICAL SECTION**

\* SEE STAGE 1 PLAN TEMPORARY PAVEMENT SCHEDULE FOR STATION, OFFSET, ELEVATION AND CROSS SLOPE.

MAINTAIN TRAFFIC ON IL 92 WITH DAYTIME LANE CLOSURES IN ACCORDANCE WITH STANDARD 701306 FOR PLACEMENT OF FINAL WEARING SURFACE AND PAVEMENT MARKINGS.  
LANDSCAPING OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH STANDARD 701101.

**STAGE 5**  
STA 404+30 TO STA 411+46

**TRAFFIC CONTROL NOTES**

1. DURING THE CONSTRUCTION PERIOD IT IS THE INTENTION OF THE DEPARTMENT THAT IL 92 AND ALL ADJACENT SIDE STREETS REMAIN OPEN TO TWO-WAY THROUGH TRAFFIC AT ALL TIMES EXCEPT AS DESCRIBED HEREIN. THIS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH ARTICLE 107.14 OF THE STANDARD SPECIFICATIONS AND AS SHOWN AND DESCRIBED IN THESE PLANS.
2. THE CONTRACTOR SHALL ORGANIZE THE CONSTRUCTION ACTIVITIES SO THAT CONSTRUCTION PROCEEDS IN AN EXPEDITIOUS MANNER SO CLOSURES AND ADVERSE TRAVEL PERIODS ARE MINIMIZED.
3. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE STAGE CONSTRUCTION OF ALL CULVERTS AND APPURTENANT DRAINAGE ITEMS TO ENSURE NO CONFLICT WITH THE ROADWAY CONSTRUCTION STAGES AND TRAFFIC MOVEMENTS. THE CONTRACTOR SHALL MAINTAIN DRAINAGE AT ALL TIMES DURING THE VARIOUS STAGES OF CONSTRUCTION. PONDING OF WATER ON THE ROADWAY WILL NOT BE ALLOWED.

4. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN ACCESS TO THE PRIVATE, FIELD, AND COMMERCIAL ENTRANCES TO PROPERTIES ABUTTING THE ROADWAY BEING IMPROVED IN ACCORDANCE WITH ARTICLE 107.09 OF THE STANDARD SPECIFICATIONS. ACCESS TO THE COMMERCIAL PROPERTIES SHALL, AT NO TIME, BE SHUT OFF COMPLETELY. GAP WIDENING, HALF-WIDTH CONSTRUCTION, AND TEMPORARY GRAVEL SURFACES SHALL BE USED TO PROVIDE ALL-WEATHER ACCESS TO THE ABOVE LOCATIONS. AT NO TIME SHALL A PRIVATE ENTRANCE BE CLOSED FOR MORE THAN EIGHT HOURS. THE COST OF PROVIDING ACCESS TO ENTRANCES DURING CONSTRUCTION SHALL BE PAID AT THE CONTRACT UNIT PRICE FOR "TEMPORARY ACCESS" OF THE TYPE SPECIFIED AS DESCRIBED IN THE SPECIAL PROVISIONS.
5. TEMPORARY PAVEMENT MARKING, PAINT SHALL NOT BE USED ON THE FINAL WEARING SURFACE OR ON ANY EXISTING SURFACE TO REMAIN. USE PAVEMENT MARKING TAPE, TYPE III ON THE FINAL WEARING SURFACE AND EXISTING SURFACE TO REMAIN AS REQUIRED.
6. REPLACEMENT OF DAMAGED OR UNSERVICEABLE TEMPORARY IMPACT ATTENUATORS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR "IMPACT ATTENUATORS, TEMPORARY" OF THE TYPE SPECIFIED.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
FAP 599 (IL 92)  
SECTION 42MFT-BR  
ROCK ISLAND COUNTY

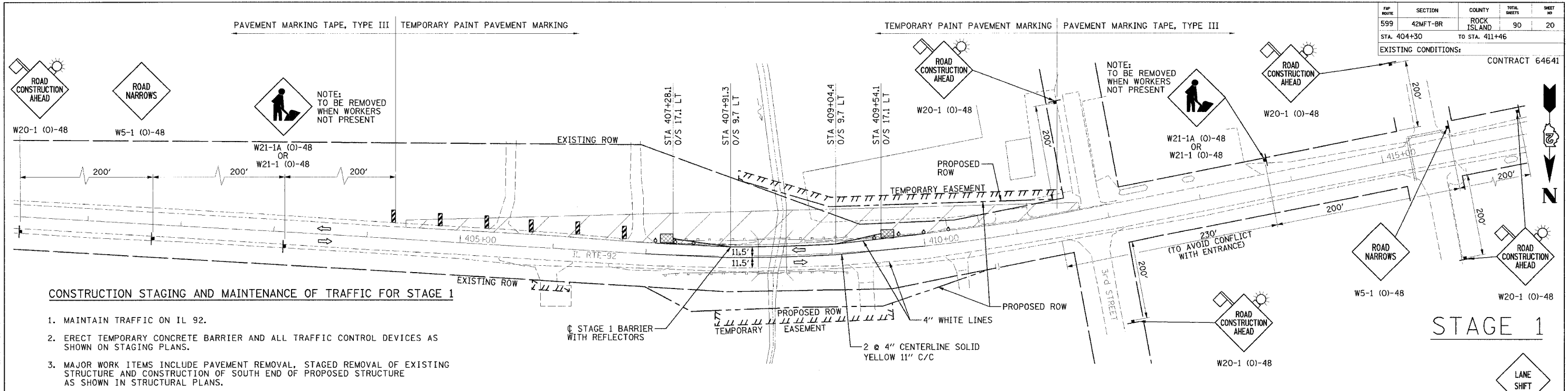
**MAINTENANCE OF TRAFFIC**

DRAWN BY: HLC

DATE	
BY	
SURVEYED	
DESIGNED	
CHECKED	
APPROVED	
PLANNING	
NO.	

08/31/2005  
08:53:35 PM  
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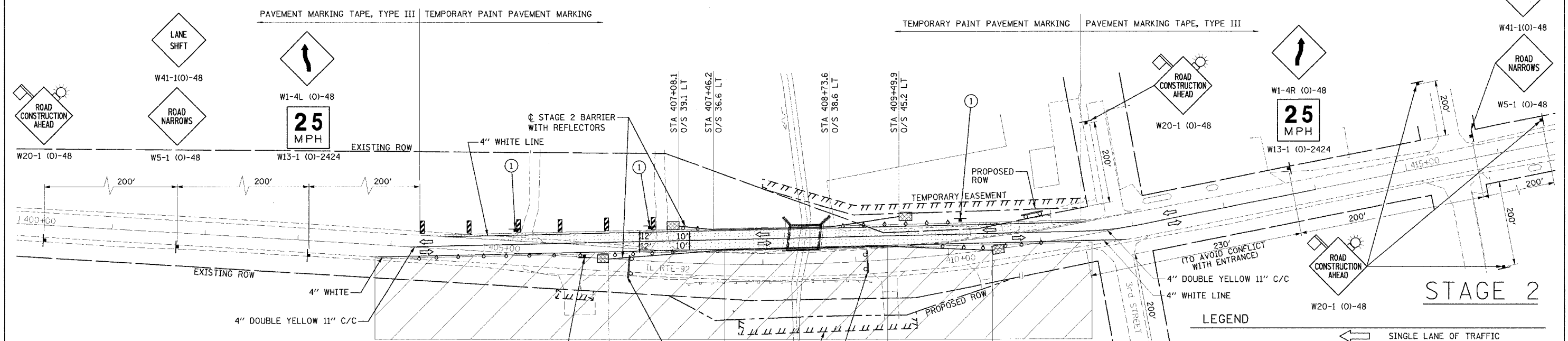
FAP NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-BR	ROCK ISLAND	90	20
STA. 404+30		TO STA. 411+46		
EXISTING CONDITIONS:				
CONTRACT 64641				



### STAGE 1

#### CONSTRUCTION STAGING AND MAINTENANCE OF TRAFFIC FOR STAGE 1

1. MAINTAIN TRAFFIC ON IL 92.
2. ERECT TEMPORARY CONCRETE BARRIER AND ALL TRAFFIC CONTROL DEVICES AS SHOWN ON STAGING PLANS.
3. MAJOR WORK ITEMS INCLUDE PAVEMENT REMOVAL, STAGED REMOVAL OF EXISTING STRUCTURE AND CONSTRUCTION OF SOUTH END OF PROPOSED STRUCTURE AS SHOWN IN STRUCTURAL PLANS.



### STAGE 2

#### TEMPORARY PAVEMENT SCHEDULE

STATION	LT EDGE OF TEMPORARY PAVEMENT		RT EDGE OF TEMPORARY PAVEMENT		CROSS SLOPE
	ELEVATION	OFFSET	ELEVATION	OFFSET	
404+31.70	BEGIN LEFT EDGE OF TEMPORARY PAVEMENT	N/A	N/A	N/A	N/A
405+00.00	573.34	18.53 LT	MATCH EX EDGE OF PAVEMENT		1.50%
406+00.00	572.58	26.79 LT	MATCH EX EDGE OF PAVEMENT		
407+00.00	572.12	34.91 LT	MATCH EX EDGE OF PAVEMENT		
408+00.00	572.60	39.40 LT	572.96	15.40 LT	
408+10.28	572.65	39.59 LT	573.01	15.59 LT	
408+23.03	572.71	39.74 LT	573.07	15.74 LT	
408+41.00	572.57	39.80 LT	572.93	15.80 LT	
408+58.05	572.66	39.75 LT	573.02	15.75 LT	
408+73.29	572.74	39.56 LT	573.10	15.56 LT	
409+00.00	572.87	38.96 LT	573.23	14.96 LT	
410+00.00	573.04	33.58 LT	MATCH EX EDGE OF PAVEMENT		1.50%
411+00.00	573.09	23.20 LT	MATCH EX EDGE OF PAVEMENT		
411+40.00	573.07	16.68 LT	MATCH EX EDGE OF PAVEMENT		
411+63.40	END LEFT EDGE OF TEMPORARY PAVEMENT	N/A	N/A	N/A	N/A

#### CONSTRUCTION STAGING AND MAINTENANCE OF TRAFFIC FOR STAGE 2

1. MAINTAIN TRAFFIC ON IL 92.
2. REMOVE LEFT SHOULDER AND CONSTRUCT TEMPORARY PAVEMENT IN ACCORDANCE WITH STANDARD 701326-01.
3. ERECT TEMPORARY CONCRETE BARRIER AND ALL TRAFFIC CONTROL DEVICES AS SHOWN ON STAGING PLANS.
4. SHIFT TRAFFIC ONTO TEMPORARY PAVEMENT
5. MAJOR WORK ITEMS INCLUDE PAVEMENT REMOVAL, REMOVAL OF REMAINING EXISTING STRUCTURE, CONSTRUCT BALANCE OF CULVERT AND CONSTRUCT WB FULL DEPTH PAVEMENT (EXCEPT FINAL WEARING SURFACE) FROM STA 407+70 TO STA 411+00 AND EB FULL DEPTH PAVEMENT (EXCEPT FINAL WEARING SURFACE) FROM STA 407+70 TO STA 409+20, RIGHT SIDE SHOULDERS AND ENTRANCES.

#### LEGEND

- SINGLE LANE OF TRAFFIC
- TYPE 3 BARRICADE W/STEADY BURN LIGHTS - QUANTITY AS REQUIRED FOR PROPER CLOSURE
- DRUM W/STEADY BURNING LIGHT AT 25' SPACING
- VERTICAL PANEL W/STEADY BURNING LIGHT AT 50' SPACING
- TEMPORARY PAVEMENT
- WORK AREA
- TEMPORARY IMPACT ATTENUATORS IN COMPLIANCE WITH NCHRP 350 FOR THE POSTED SPEED LIMIT

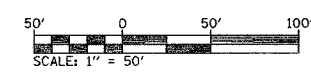
AT ALL ENTRANCES  
NOTE: ABOVE SIGNS SHALL BE BLACK ON ORANGE REFLECTIVE BACKGROUND

ILLINOIS DEPARTMENT OF TRANSPORTATION  
FAP 599 (IL 92)  
SECTION 42MFT-BR  
ROCK ISLAND COUNTY

### MAINTENANCE OF TRAFFIC

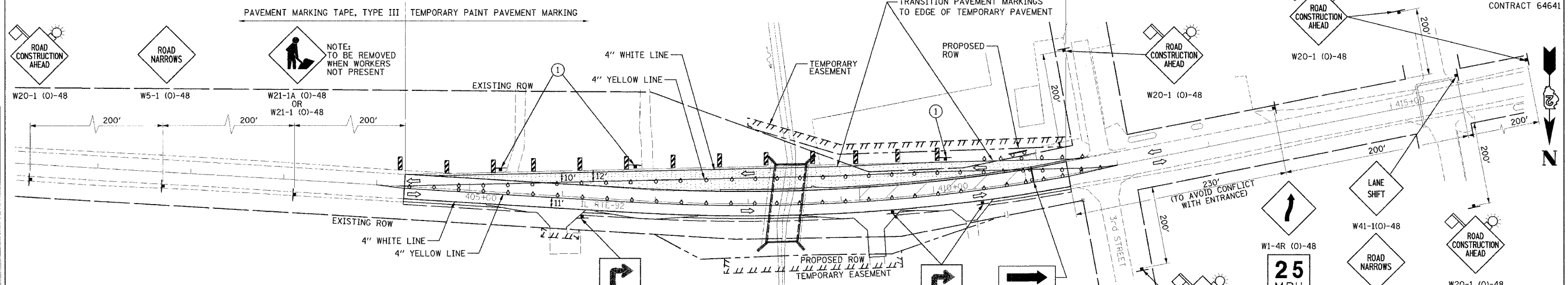
DRAWN BY: HLC

REVISIONS	
NAME	DATE



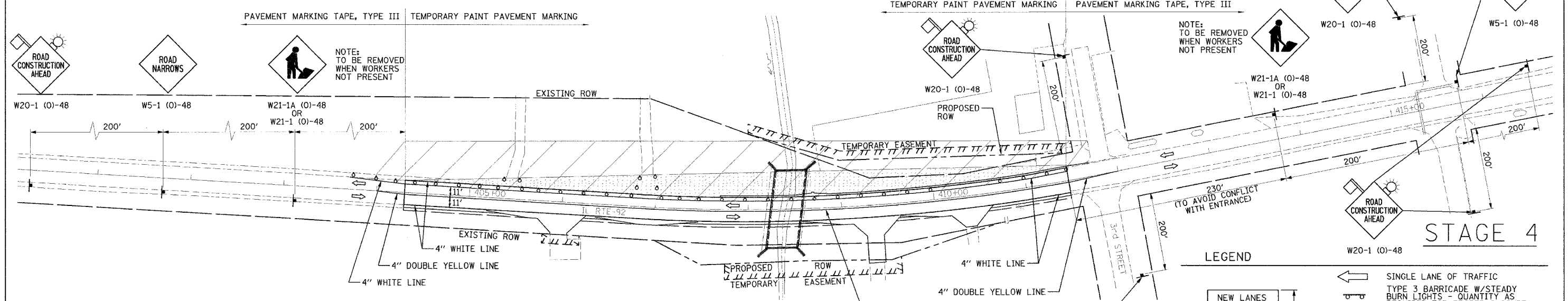
FAP NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-BR	ROCK ISLAND	90	21
STA. 404+30		TO STA. 411+46		

EXISTING CONDITIONS: CONTRACT 64641



**CONSTRUCTION STAGING AND MAINTENANCE OF TRAFFIC FOR STAGE 3**

1. MAINTAIN EB TRAFFIC ON TEMPORARY PAVEMENT AND SHIFT WB TRAFFIC ONTO IL 92. ERECT ALL TRAFFIC CONTROL DEVICES AS SHOWN ON STAGING PLANS.
2. MAJOR WORK ITEMS INCLUDE PAVEMENT REMOVAL AND CONSTRUCT EB FULL DEPTH PAVEMENT (EXCEPT FINAL WEARING SURFACE) FROM STA 409+20 TO STA 411+00.



**CONSTRUCTION STAGING AND MAINTENANCE OF TRAFFIC FOR STAGE 4**

1. SHIFT EB TRAFFIC ONTO IL 92 AND ERECT ALL TRAFFIC CONTROL DEVICES AS SHOWN ON STAGING PLANS.
2. MAJOR WORK ITEMS INCLUDE TEMPORARY PAVEMENT REMOVAL; CONSTRUCT TYPE B GUTTER, SHOULDERS AND ENTRANCES; AND RECONSTRUCT PORTION OF PARKING LOT AFFECTED BY TEMPORARY PAVEMENT.

**CONSTRUCTION STAGING AND MAINTENANCE OF TRAFFIC FOR STAGE 5**

1. MAINTAIN TRAFFIC ON IL 92 WITH DAYTIME LANE CLOSURES IN ACCORDANCE WITH STANDARD 701306. PAVEMENT MARKING AND LANDSCAPING OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH STANDARD 701311-02.
2. MAJOR WORK ITEMS INCLUDE BITUMINOUS SURFACE REMOVAL AND FINAL WEARING SURFACE PLACEMENT, PAVEMENT MARKING AND LANDSCAPING.

**LEGEND**

- ← SINGLE LANE OF TRAFFIC
- ⚡ TYPE 3 BARRICADE W/STEADY BURN LIGHTS - QUANTITY AS REQUIRED FOR PROPER CLOSURE
- ⊙ DRUM W/STEADY BURNING LIGHT AT 25' SPACING
- ⊙ VERTICAL PANEL W/STEADY BURNING LIGHT AT 50' SPACING
- ▨ TEMPORARY PAVEMENT
- ▨ WORK AREA
- ▨ TEMPORARY IMPACT ATTENUATORS IN COMPLIANCE WITH NCHRP 350 FOR THE POSTED SPEED LIMIT

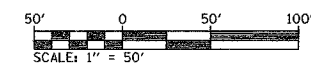
**AT ALL ENTRANCES**  
NOTE: ABOVE SIGNS SHALL BE BLACK ON ORANGE REFLECTIVE BACKGROUND

ILLINOIS DEPARTMENT OF TRANSPORTATION  
FAP 599 (IL 92)  
SECTION 42MFT-BR  
ROCK ISLAND COUNTY

**MAINTENANCE OF TRAFFIC**

DRAWN BY: HLC



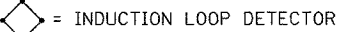

REVISIONS	
NAME	DATE



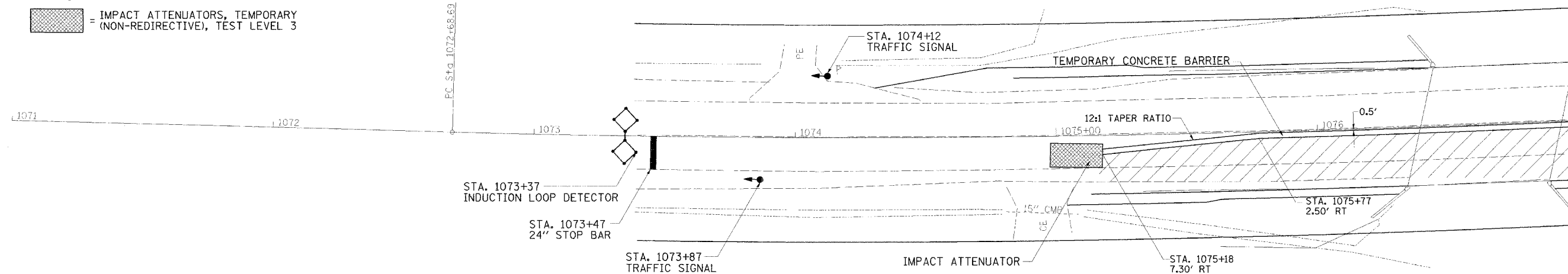


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	*	ROCK ISLAND	90	23
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

# STAGING SHEETS

-  = WORK ZONE
-  = TRAFFIC SIGNAL
-  = INDUCTION LOOP DETECTOR
-  = IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

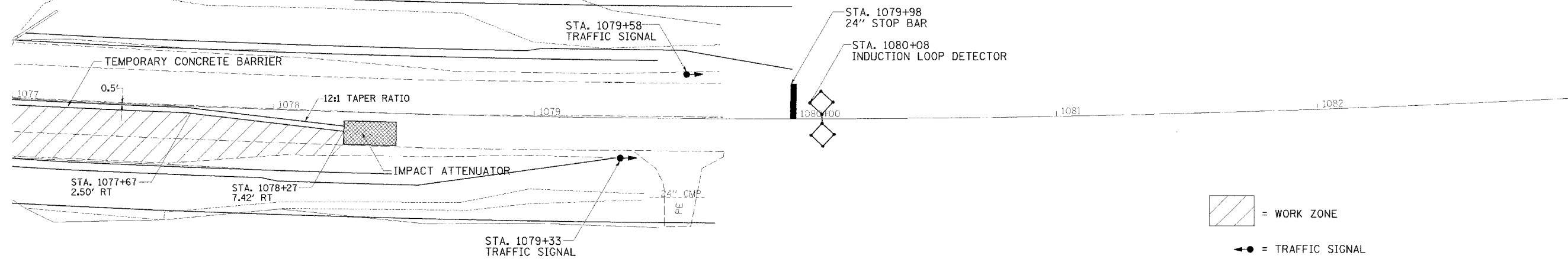
EXIST. CURVE 220  
 P.I. STA. = 1080+91.84  
 $\Delta = 16^\circ 22' 06''$  (LT)  
 $D = 1^\circ 00' 04''$   
 $R = 5,723.53'$   
 $T = 823.15'$   
 $L = 1,635.10'$   
 $E = 58.89'$   
 $\theta = \dots$   
 $T.R. = \dots$   
 $S.F. RUN = \dots$   
 $P.C. STA. = 1072+68.69$   
 $P.T. STA. = 1089+03.78$



**NOTE:**



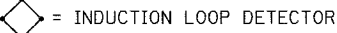

THIS TRAFFIC CONTROL AND PROTECTION SHALL BE SET UP AND PAID FOR ACCORDING TO STANDARD 701321

EXIST. CURVE 220  
 P.I. STA. = 1080+91.84  
 $\Delta = 16^\circ 22' 06''$  (LT)  
 $D = 1^\circ 00' 04''$   
 $R = 5,723.53'$   
 $T = 823.15'$   
 $L = 1,635.10'$   
 $E = 58.89'$   
 $\theta = \dots$   
 $T.R. = \dots$   
 $S.F. RUN = \dots$   
 $P.C. STA. = 1072+68.69$   
 $P.T. STA. = 1089+03.78$



**NOTE:**





THIS TRAFFIC CONTROL AND PROTECTION SHALL BE SET UP AND PAID FOR ACCORDING TO STANDARD 701321

-  = WORK ZONE
-  = TRAFFIC SIGNAL
-  = INDUCTION LOOP DETECTOR
-  = IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

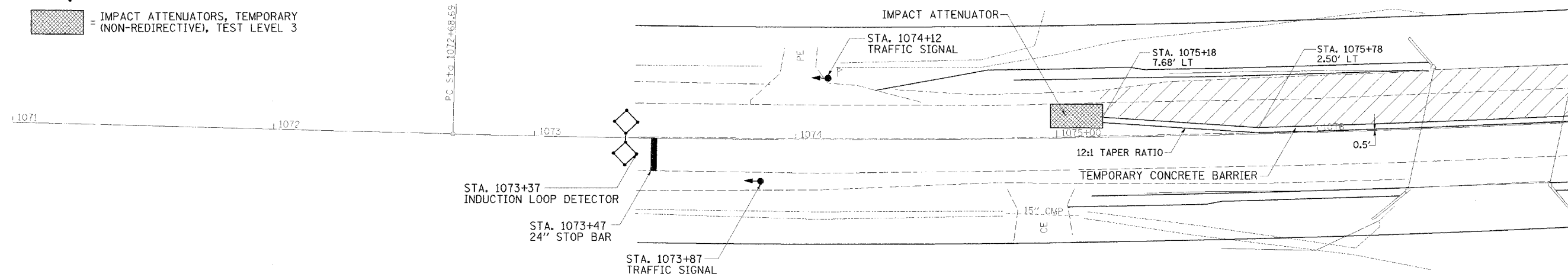
PLOT DATE = 6/3/2003  
 PLOT SCALE = 1/8\"/>

F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	*	ROCK ISLAND	90	24
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

# STAGING SHEETS

-  = WORK ZONE
-  = TRAFFIC SIGNAL
-  = INDUCTION LOOP DETECTOR
-  = IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

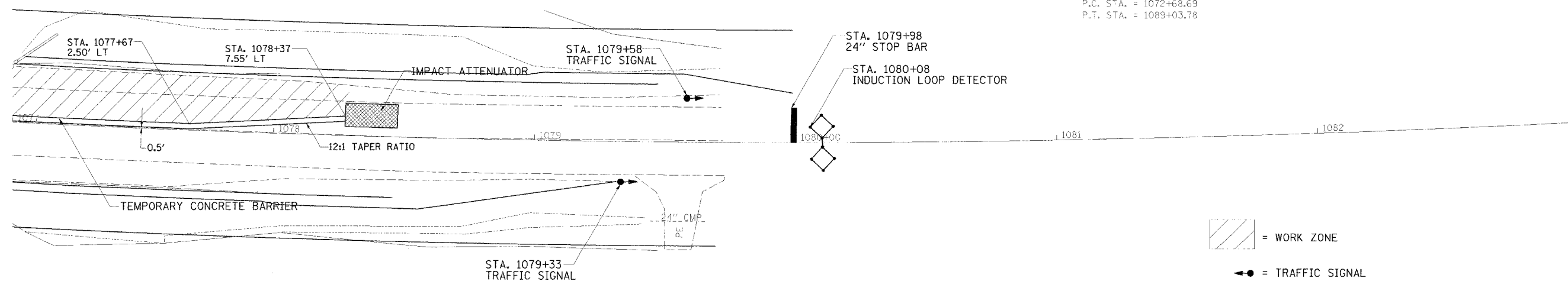
EXIST. CURVE 220  
 PI STA. = 1080+91.84  
 $\Delta = 16^\circ 22' 06''$  (LT)  
 $D = 1^\circ 00' 04''$   
 $R = 5,723.53'$   
 $T = 823.15'$   
 $L = 1,635.10'$   
 $E = 58.89'$   
 $e =$  -----  
 T.R. = -----  
 S.E. RUN = -----  
 P.C. STA. = 1072+68.69  
 P.T. STA. = 1089+03.78







**NOTE:**

THIS TRAFFIC CONTROL AND PROTECTION SHALL BE SET UP AND PAID FOR ACCORDING TO STANDARD 701321

EXIST. CURVE 220  
 PI STA. = 1080+91.84  
 $\Delta = 16^\circ 22' 06''$  (LT)  
 $D = 1^\circ 00' 04''$   
 $R = 5,723.53'$   
 $T = 823.15'$   
 $L = 1,635.10'$   
 $E = 58.89'$   
 $e =$  -----  
 T.R. = -----  
 S.E. RUN = -----  
 P.C. STA. = 1072+68.69  
 P.T. STA. = 1089+03.78



-  = WORK ZONE
-  = TRAFFIC SIGNAL
-  = INDUCTION LOOP DETECTOR
-  = IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3

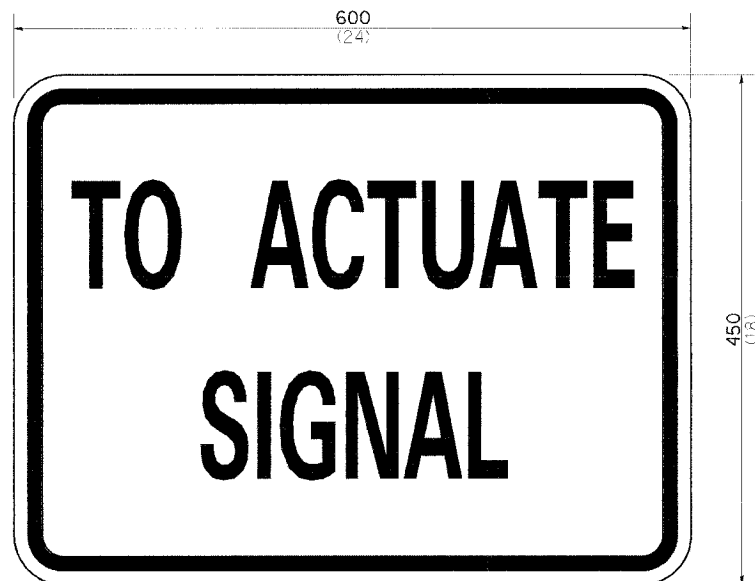
**NOTE:**

THIS TRAFFIC CONTROL AND PROTECTION SHALL BE SET UP AND PAID FOR ACCORDING TO STANDARD 701321

PLOT DATE = 8/31/2005  
 PLOT SCALE = 1/4\"/>



# STOP LINE SIGN FOR TEMPORARY SIGNALS



SIZE: 600(24) x 450(18)  
 100(4) CAPITAL LETTERS - BLACK  
 13 (1/2) BORDER - BLACK  
 WHITE REFLECTIVE - TYPE B  
 ENGINEERING GRADE SHEETING

GENERAL NOTE:

THIS SIGN SHALL BE INSTALLED AT THE  
 STOP LINE AS DIRECTED BY ENGINEER.  
 ALL DIMENSIONS ARE IN MILLIMETERS (INCHES)  
 UNLESS OTHERWISE NOTED.

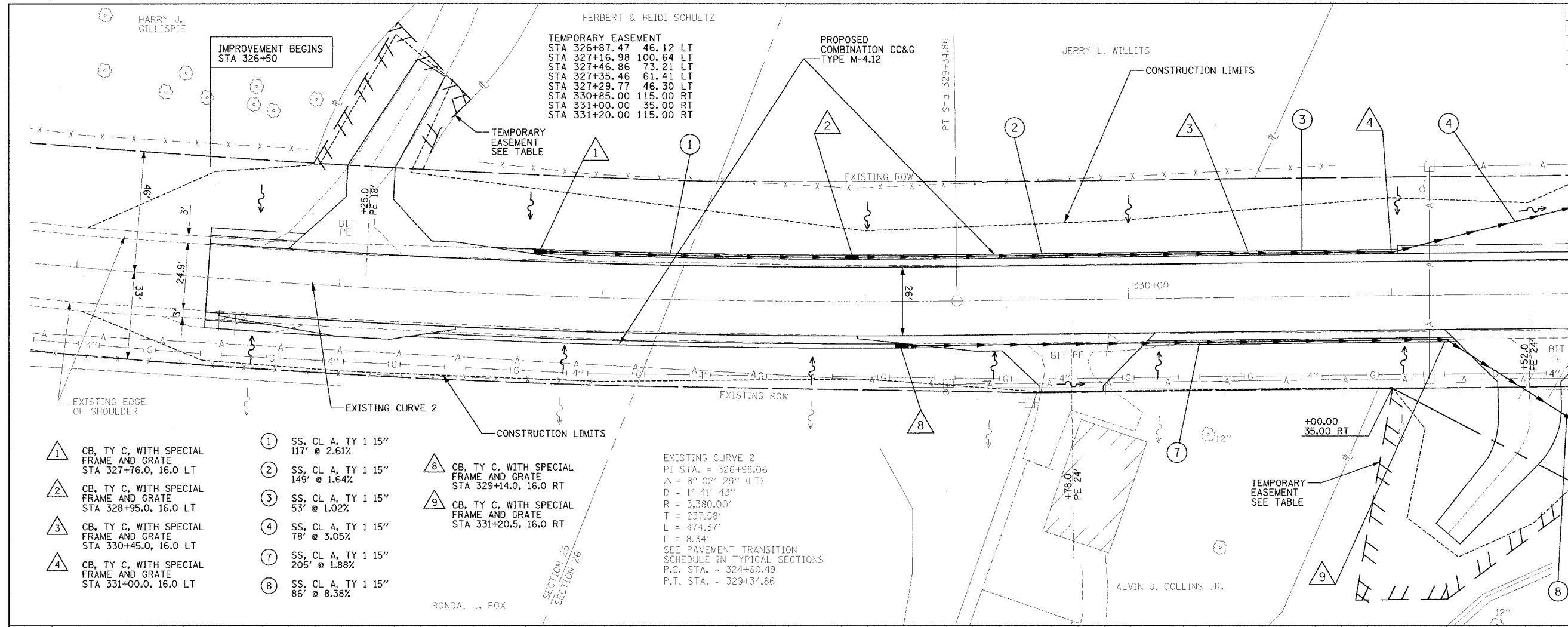
**STOP LINE SIGN FOR TEMPORARY SIGNALS 99.4**

REVISED 8-7-90

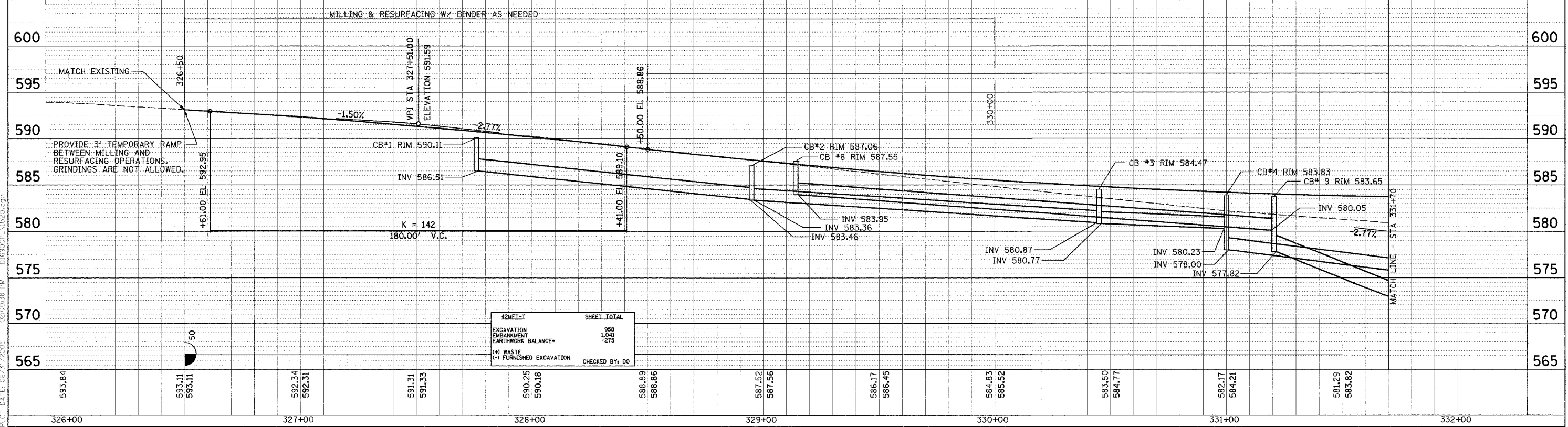
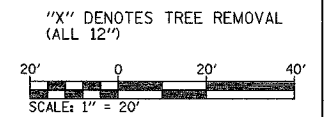




F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-T	ROCK ISLAND	90	28
STA. 326+50		TO STA. 331+70		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		CONTRACT 64641	



- 1 CB, TY C, WITH SPECIAL FRAME AND GRATE STA 327+76.0, 16.0 LT
- 2 SS, CL A, TY 1 15" 117' @ 2.61%
- 3 SS, CL A, TY 1 15" 149' @ 1.64%
- 4 SS, CL A, TY 1 15" 53' @ 1.02%
- 5 SS, CL A, TY 1 15" 78' @ 3.05%
- 6 SS, CL A, TY 1 15" 205' @ 1.88%
- 7 SS, CL A, TY 1 15" 86' @ 8.38%
- 8 CB, TY C, WITH SPECIAL FRAME AND GRATE STA 329+14.0, 16.0 RT
- 9 CB, TY C, WITH SPECIAL FRAME AND GRATE STA 331+20.5, 16.0 RT





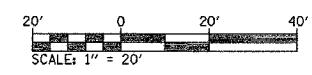
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-T	ROCK ISLAND	90	30
STA. 10+00	TO STA. 13+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT 64641				

STATION EQUATION  
STA 332+50 IL 92 = STA 13+17 85TH ST

EXISTING CURVE 85-1  
PI STA = 10+80.41  
 $\Delta = 38^\circ 18' 21''$  (RT)  
D = 28° 38' 52"  
T = 69.46'  
R = 200.00'  
L = 133.71'  
E = 11.72'  
PC STA = 10+10.94  
PT STA = 11+44.65

PROPOSED CURVE 85-2  
PI STA = 12+67.54  
 $\Delta = 51^\circ 09' 06''$  (LT)  
D = 114° 35' 30"  
T = 23.93'  
R = 50.00'  
L = 44.64'  
E = 5.43'  
PC STA = 12+43.61  
PT STA = 12+88.25

"X" DENOTES TREE REMOVAL (ALL 12")



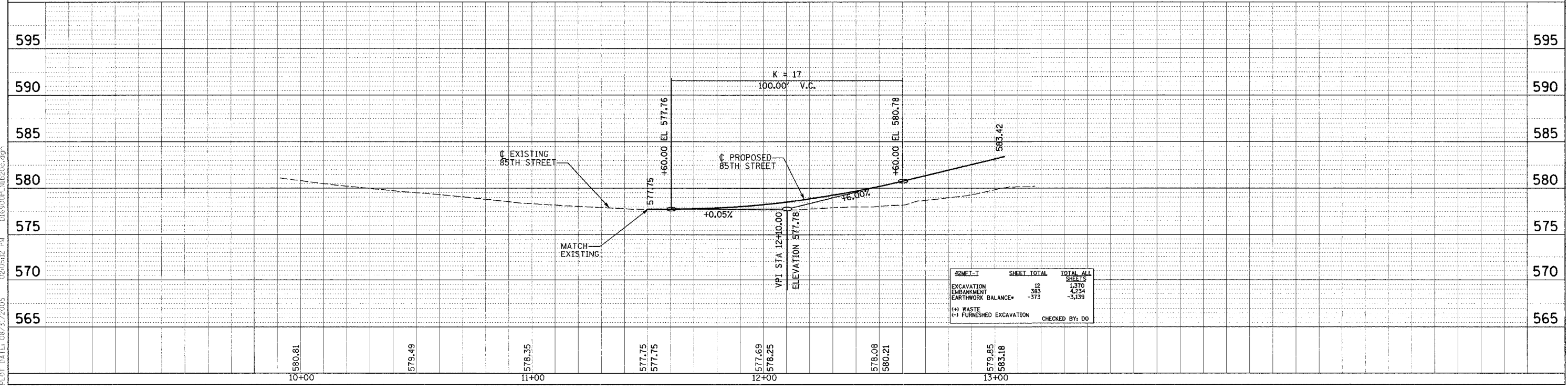
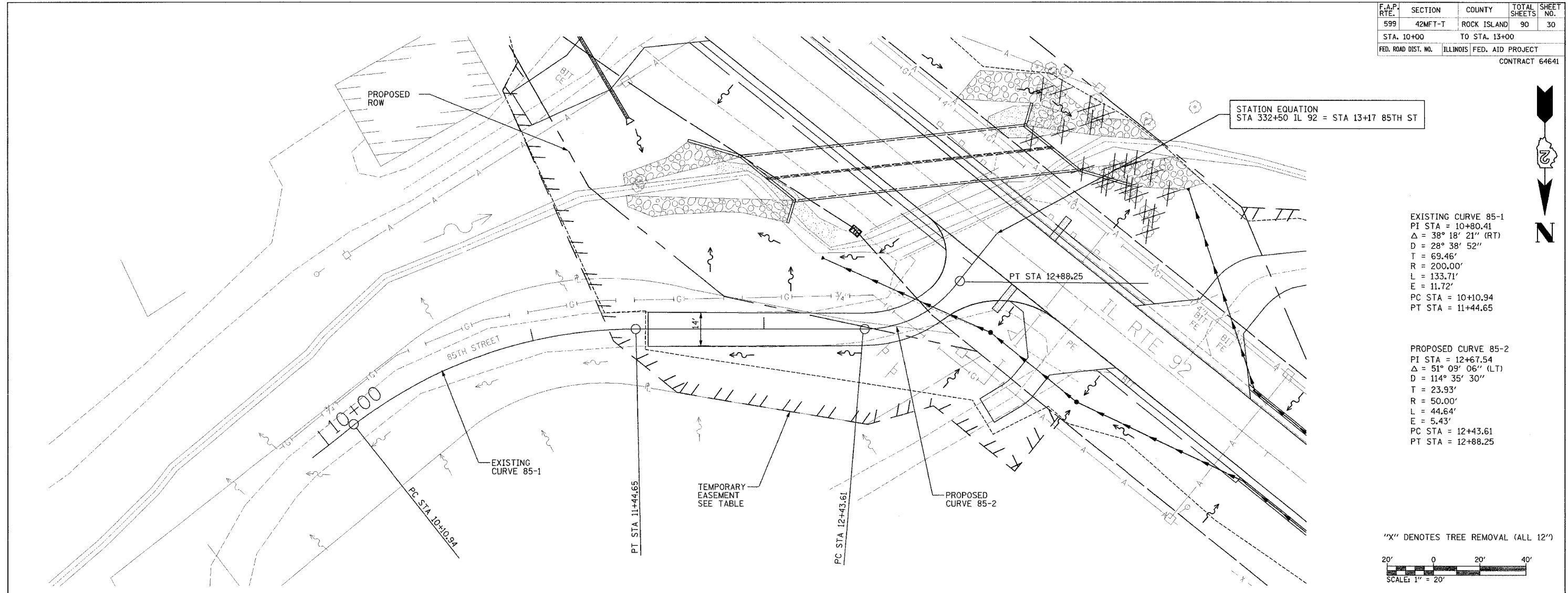
PLAN

DESIGNED BY	DATE
PLOTTED BY	
ALIGNED CHECKED BY	
NOTE BOOK NO.	
FIELD FILE NAME	

PROFILE

DESIGNED BY	DATE
PLOTTED BY	
GRADES CHECKED BY	
NOTE BOOK NO.	
FIELD FILE NAME	

PLOT DATE: 08/31/2005 02:05:12 PM D:\6500\PI\NID20c.dgn



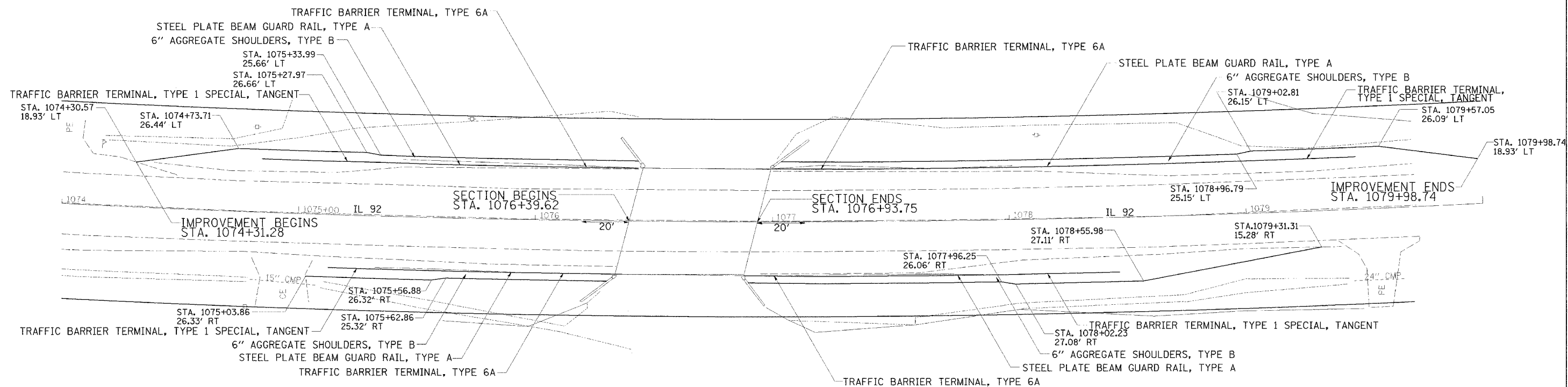
42MFT-T	SHEET TOTAL	TOTAL ALL SHEETS
EXCAVATION	225	1,370
EMBANKMENT	383	4,234
EARTHWORK BALANCE*	-373	-3,139
(*) WASTE (-) FURNISHED EXCAVATION CHECKED BY: DO		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	*	ROCK ISLAND	90	31
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

# PLAN SHEETS



EXIST. CURVE 220  
 PI STA. = 1080+91.84  
 $\Delta = 16^\circ 22' 06''$  (LT)  
 $D = 1^\circ 00' 04''$   
 $R = 5,723.53'$   
 $T = 823.15'$   
 $L = 1,635.10'$   
 $E = 58.89'$   
 $\phi = \text{-----}$   
 $T.P. = \text{-----}$   
 $S.E. \text{ RUN} = \text{-----}$   
 $P.C. \text{ STA.} = 1072+68.69$   
 $P.T. \text{ STA.} = 1089+03.78$

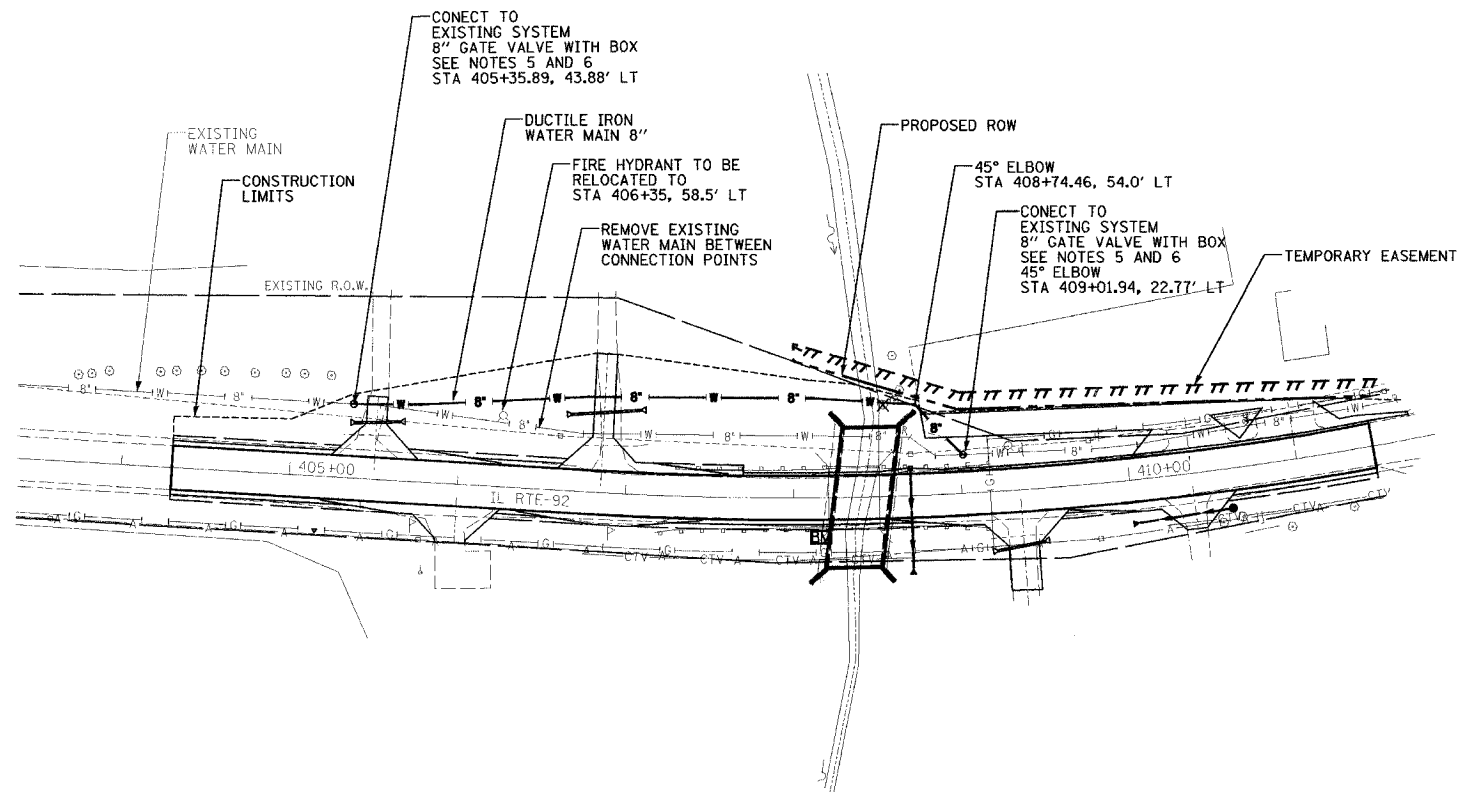


PLOT DATE = 8/31/2005  
 PLOT SCALE = 1"=40'  
 USER NAME = JLSB05

NOTES:

1. REFER TO STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (MAY 1996 EDITION)
2. ALL ELEVATIONS ARE ON AN ASSUMED DATUM.
3. LAY PIPE WITH 5'-6' MINIMUM EARTH COVER OVER TOP OF PIPE
4. VERIFY DEPTH AND LOCATION OF ALL EXISTING UTILITIES.
5. COORDINATE CONNECTIONS TO EXISTING SYSTEM WITH THE VILLAGE OF ANDALUSIA. CONNECTION TO EXISTING SYSTEM MAY BE REQUIRED DURING OFF PEAK HOURS.
6. INSTALL VALVES IN CLOSED POSITION. ONLY THE VILLAGE OF ANDALUSIA'S REPRESENTATIVE SHALL OPERATE VALVES.
7. EXCAVATED MATERIAL FOR BACKFILL, WHEN SPECIFIED: FINELY DIVIDED MATERIAL FREE FROM DEBRIS, STONES, ORGANIC MATTER OR FROZEN LUMPS; PIPE BEDDING OR SAND MAY BE USED AS SUBSTITUTE.
8. MINIMUM CONCRETE COMPRESSIVE STRENGTH: 2500 PSI.
9. PROVIDE MINIMUM CONCRETE COVER OF 8" AT PIPE EXTREMITIES. TRENCH WALLS MAY BE USED TO FORM CONCRETE.
10. CONCRETE ENCASMENT: USED WHERE SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER. PAYMENT WILL BE MADE ON UNIT PRICE OR UNIT ADJUSTMENT PRICE BASIS.
11. MAKE PIPE JOINT IN SAME MANNER SPECIFIED FOR PIPE NOT ENCASED.
12. PROVIDE MINIMUM OF 2 TEMPORARY PIPE SUPPORTS UNDER BARREL PER PIPE LENGTH; PROVIDE TIES AND BRACES TO PREVENT DISPLACEMENT OR FLOTATION DURING BEDDING OR ENCASMENT PROCEDURES.

# HIGHWAY IL-92 WATER MAIN REPLACEMENT ANDALUSIA, ILLINOIS



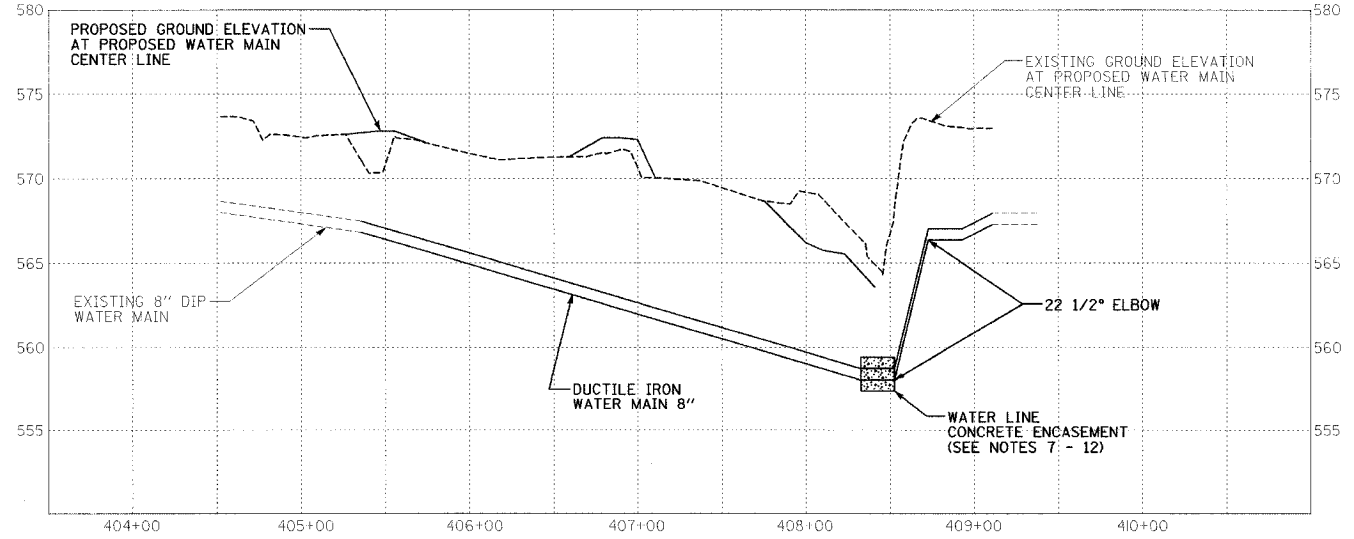
GENERAL NOTES

1. ALL ELEVATIONS ARE TO AN ASSUMED DATUM.
2. REMOVE AND REPLACE ALL STREET SIGNS AS DIRECTED BY ENGINEER. COST IS INCIDENTAL TO CONSTRUCTION.
3. SHAPE ALL DITCHES TO DRAIN AFTER CONSTRUCTION.
4. CONFIRM LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND UTILITIES AS REQUIRED TO ELIMINATE CONFLICTS PRIOR TO CONSTRUCTION. ALLOW UTILITY PERSONNEL TO RELOCATE UTILITIES WHERE CONFLICTS OCCUR.
5. DO NOT INTERRUPT EXISTING UTILITIES OR INDIVIDUAL SERVICES UNLESS DIRECTED BY ENGINEER.
6. LOCATIONS OF CONSTRUCTION LIMIT LINES SHOWN ON PLANS ARE APPROXIMATE. ENGINEER WILL LOCATE CONSTRUCTION LIMITS IN FIELD. CONFINE ALL CONSTRUCTION OPERATIONS, INCLUDING ACCESS TO WORK, TO CONSTRUCTION LIMITS.
7. SET MANHOLE COVERS FLUSH WITH PROPOSED GRADES UNLESS OTHERWISE NOTED.
8. STATIONING IS ALONG CENTER LINE OF PAVEMENT, UNLESS OTHERWISE NOTED.
9. PROTECT UTILITY POLES, LINES AND APPURTENANCES NOT SHOWN FOR RELOCATION.
10. RESET ALL PROPERTY PINS DISTURBED BY CONSTRUCTION; PINS RESET BY REGISTERED LAND SURVEYOR; COST IS INCIDENTAL TO CONSTRUCTION.
11. PROTECT ALL SURFACING, NOT INDICATED BY SHADING FOR REMOVAL AND REPLACEMENT FROM DAMAGE DURING CONSTRUCTION.

PROTECTION OF VEGETATION

TREES AND OTHER VEGETATION WHICH MAY BE REMOVED ARE MARKED WITH AN "X" OVER THE APPROPRIATE SYMBOL. FOR EXAMPLE X 12" INDICATES THE REMOVAL OF A 12" TREE. REPLACEMENT, BY CONTRACTOR, OF THESE ITEMS IS NOT REQUIRED.

TUNNEL, INSTALL TIGHT SHEETING, HAND EXCAVATE OR EMPLOY OTHER MEANS APPROVED BY ENGINEER TO PROTECT EXPOSED PORTIONS AND ROOT SYSTEMS OF TREES AND OTHER VEGETATION NOT SCHEDULED FOR REMOVAL. IF TREES AND OTHER VEGETATION NOT SCHEDULED FOR REMOVAL ARE DAMAGED DURING CONSTRUCTION, REPLACE IN KIND AND SIZE AT NO COST TO CITY OR PROPERTY OWNER.



*Leo F. Foley*  
Signature

8/24/2005  
Date

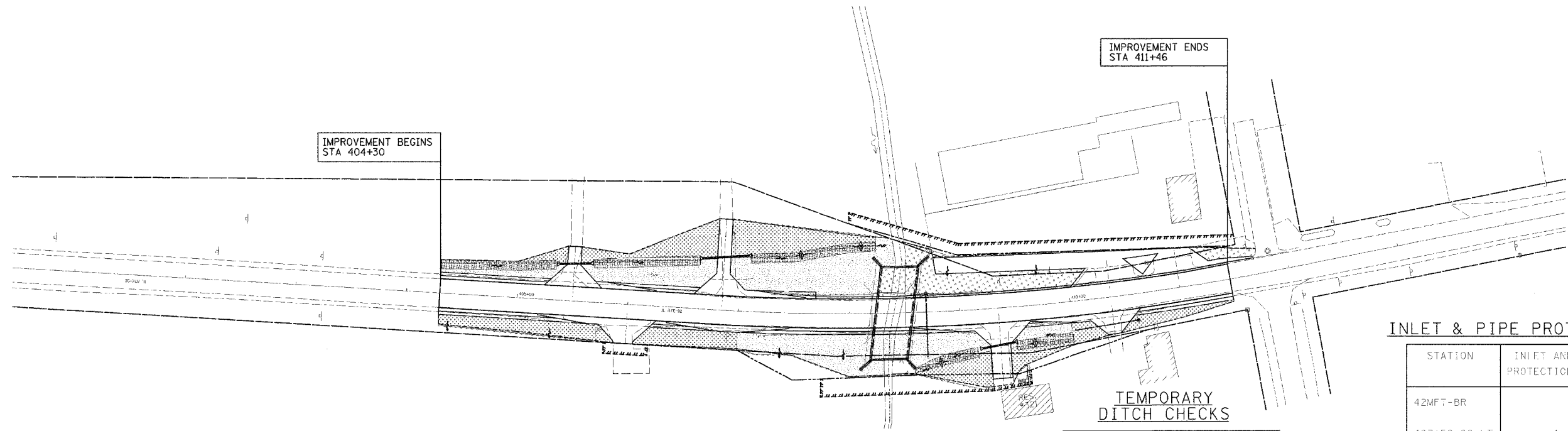
License Expires 8-30-2005

BENCHMARK	ELEVATION	DATE	REVISIONS	SCALE 1" = 50'	DRAWN ARF	CHECKED LFF	APPROVED LFF	DATE 5/10/05	A.C.	DATE	VEENSTRA & KIMM, INC.	1530 46TH Avenue - Suite 2B • Moline, Illinois 61265-7019 309-797-0171 • 309-797-0996 (FAX) • 877-797-0171 (WATS)	DWG. NO. 32 of 90





DATE: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 PLAN: \_\_\_\_\_  
 NOTE BOOK NO.: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 DATE: \_\_\_\_\_



**EROSION CONTROL**

DESCRIPTION	ON-SITE		BORROW SITE (ESTIMATED)	TOTAL
	42MFT-BR	42MFT-T		
SEEDING CLASS 1 (MODIFIED) (ACRE)	0.25	0.50	-	0.75
SEEDING CLASS 4 (ACRE)	0.25	0.50	0.75	1.50
SEEDING CLASS 6 (MODIFIED) (ACRE)	0.25	0.25	-	0.50
MULCH METHOD 2* (ACRE)	2.25	1.25	2.25	5.75
MOWING (ACRES)	0.50	0.75	-	1.25
EROSION CONTROL BLANKET (SQUARE YARD)	209	698	-	907
TEMPORARY EROSION** CONTROL SEEDING (LBS)	150	150	250	550

NOTE: ESTIMATED QUANTITIES OF EROSION CONTROL PAY ITEMS FOR USE AT CONTRACTOR BORROW/WASTE/USE SITE AS NEEDED AND DIRECTED BY THE ENGINEER.

\* INCLUDES TEMPORARY MULCH PER ARTICLE 280.06  
 \*\* ASSUMES TWO APPLICATIONS

**TEMPORARY DITCH CHECKS**

STATION	TEMPORARY DITCH CHECKS (EACH)
42MFT-BR	
407+52.00 LT	1
408+10.00 LT	1
408+81.00 RT	1
409+65.00 RT	1
42MFT-T	
334+75.00 LT	1
335+00.00 LT	1
335+25.00 LT	1
335+50.00 LT	1
335+75.00 LT	1
336+00.00 LT	1
333+00.00 RT	1
333+50.00 RT	1
334+00.00 RT	1
334+50.00 RT	1
335+00.00 RT	1
335+50.00 RT	1
11+50.00 RT	1
TOTAL	17

**INLET & PIPE PROTECTION**

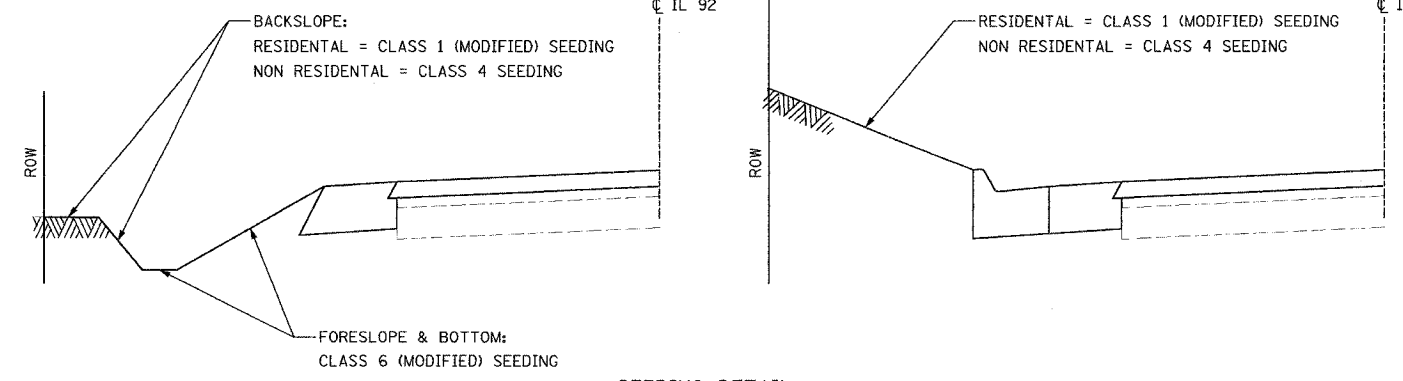
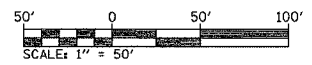
STATION	INLET AND PIPE PROTECTION (EACH)
42MFT-BR	
407+52.00 LT	1
42MFT-T	
327+76.00 LT	1
328+95.00 LT	1
330+45.00 LT	1
331+00.00 LT	1
331+77.80 LT	1
332+25.00 LT	1
329+14.00 RT	1
331+20.50 RT	1
TOTAL	9

**EROSION AND SEDIMENT CONTROL GENERAL NOTES**

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT SEDIMENT TRANSPORT OFF THE SITE IS REDUCED BY A COMBINATION OF MINIMIZATION OF EROSION AT THE SOURCE AND INSTALLATION OF SPECIFIC MEASURES TO CONTROL OR REDUCE THE TRANSPORT OF SEDIMENT. A COPY OF THE EROSION AND SEDIMENT CONTROL SCHEDULE BEING IMPLEMENTED BY THE CONTRACTOR WILL BE ON THE CONSTRUCTION SITE AT ALL TIMES.
- TO THE MAXIMUM EXTENT POSSIBLE, ALL FLOWS ORIGINATING OFF THE CONSTRUCTION SITE WILL BE DIVERTED AROUND DISTURBED AREAS OR WILL BE CONVEYED THROUGH THE SITE IN SUCH A MANNER THAT UNTREATED ON-SITE RUNOFF DOES NOT MIX WITH THE OFF-SITE RUNOFF.
- ALL RUNOFF ORIGINATING ON DISTURBED AREAS ASSOCIATED WITH THIS PROJECT WILL PASS THROUGH ONE OR MORE MEASURES THAT WILL MINIMIZE THE OFF-SITE SEDIMENT IMPACTS OF THE CONSTRUCTION ACTIVITY.
- TOPSOIL, EROSION CONTROL BLANKET AND FERTILIZER NUTRIENTS ARE NOT REQUIRED FOR TEMPORARY EROSION CONTROL SEEDING. SEED BED PREPARATION WILL NOT BE REQUIRED FOR TEMPORARY SEEDING IF THE SOIL IS IN A LOOSE CONDITION. LIGHT DISKING SHALL BE DONE IF THE SOIL IS HARD OR CAKED. BROADCASTING OF THE SEED BY MACHINE OR HAND METHODS AND HYDRAULIC SEEDING OR OTHER METHODS APPROVED BY THE ENGINEER WILL BE ALLOWED FOR TEMPORARY EROSION CONTROL SEEDING.
- THE CONTRACTOR SHALL DESIGNATE ONE OF HIS EMPLOYEES AS RESPONSIBLE FOR IMPLEMENTATION OF THE EROSION AND SEDIMENT CONTROL PLAN ON ALL DISTURBED AREAS. THIS PERSON IS TO BE KNOWLEDGEABLE ABOUT INSTALLATION AND MAINTENANCE OF THE REQUIRED MEASURES. THIS EMPLOYEE IS TO HAVE THE AUTHORITY TO CARRY OUT THE IMPLEMENTATION OF ANY INSTRUCTIONS CONCERNING THE EROSION AND SEDIMENT CONTROL PLAN GIVEN BY THE ENGINEER. ALL MEASURES WILL BE INSPECTED BY THIS INDIVIDUAL AND THE ENGINEER ON A REGULAR BASIS (AT LEAST ONCE EVERY 7 DAYS) AND AFTER ANY RAINFALL EVENT GREATER THAN 0.5 INCHES.
- ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE CONSIDERED TEMPORARY. THESE MEASURES WILL BE REMOVED BY THE CONTRACTOR UNLESS DESIGNATED PERMANENT ON THE PLANS OR BY THE ENGINEER.

**LEGEND**

- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK
- INLET AND PIPE PROTECTION
- EROSION CONTROL BLANKET
- SEEDING CLASS 1 (MODIFIED) AND MULCH METHOD 2
- SEEDING CLASS 4 AND MULCH METHOD 2
- SEEDING CLASS 6 (MODIFIED) AND MULCH METHOD 2
- PROPOSED FLOW LINES
- EXISTING FLOW LINES



**SEEDING DETAIL**

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 FAP ROUTE 599 (IL 92)  
 SECTION 42MFT-BR  
 ROCK ISLAND COUNTY

**EROSION CONTROL PLAN**

DRAWN BY: HLC



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Sheet No. 1  
of 7 Sheets

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 599	*	ROCK ISLAND	90	35
FEDERAL DIST. NO.	ILLINOIS	PROJECT		
*42 MFT-BR		CONTRACT NO. 64641		

Bench Mark #402:  
Chiseled "□" on NE wingwall of  
bridge just east of Andalusia  
Elev 574.03

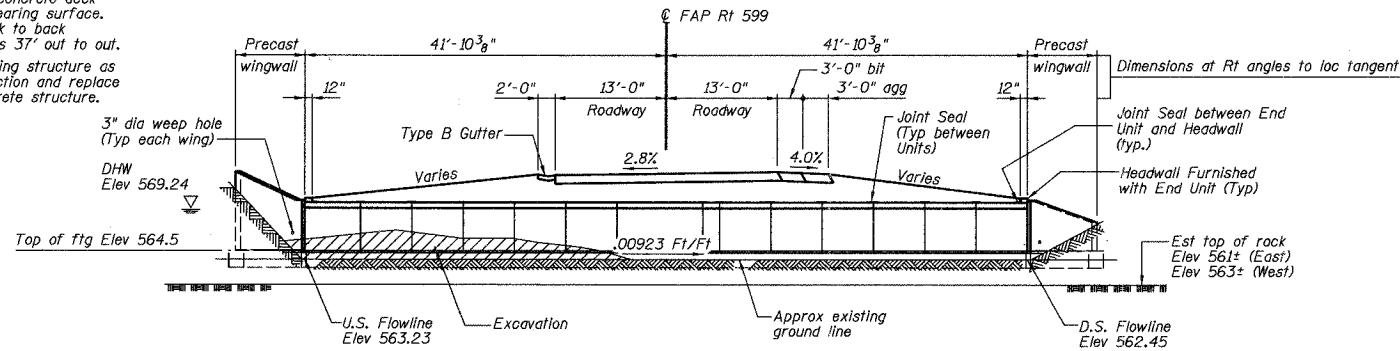
Existing Structure (SN 081-0075):  
A single span, cast in place concrete  
tee beam bridge with a 6" concrete deck  
and a bituminous concrete wearing surface.  
The bridge length is 33' back to back  
of abutments and the width is 37' out to out.  
Contractor shall remove existing structure as  
required using stage construction and replace  
with a 3-sided precast concrete structure.

No salvage.

570

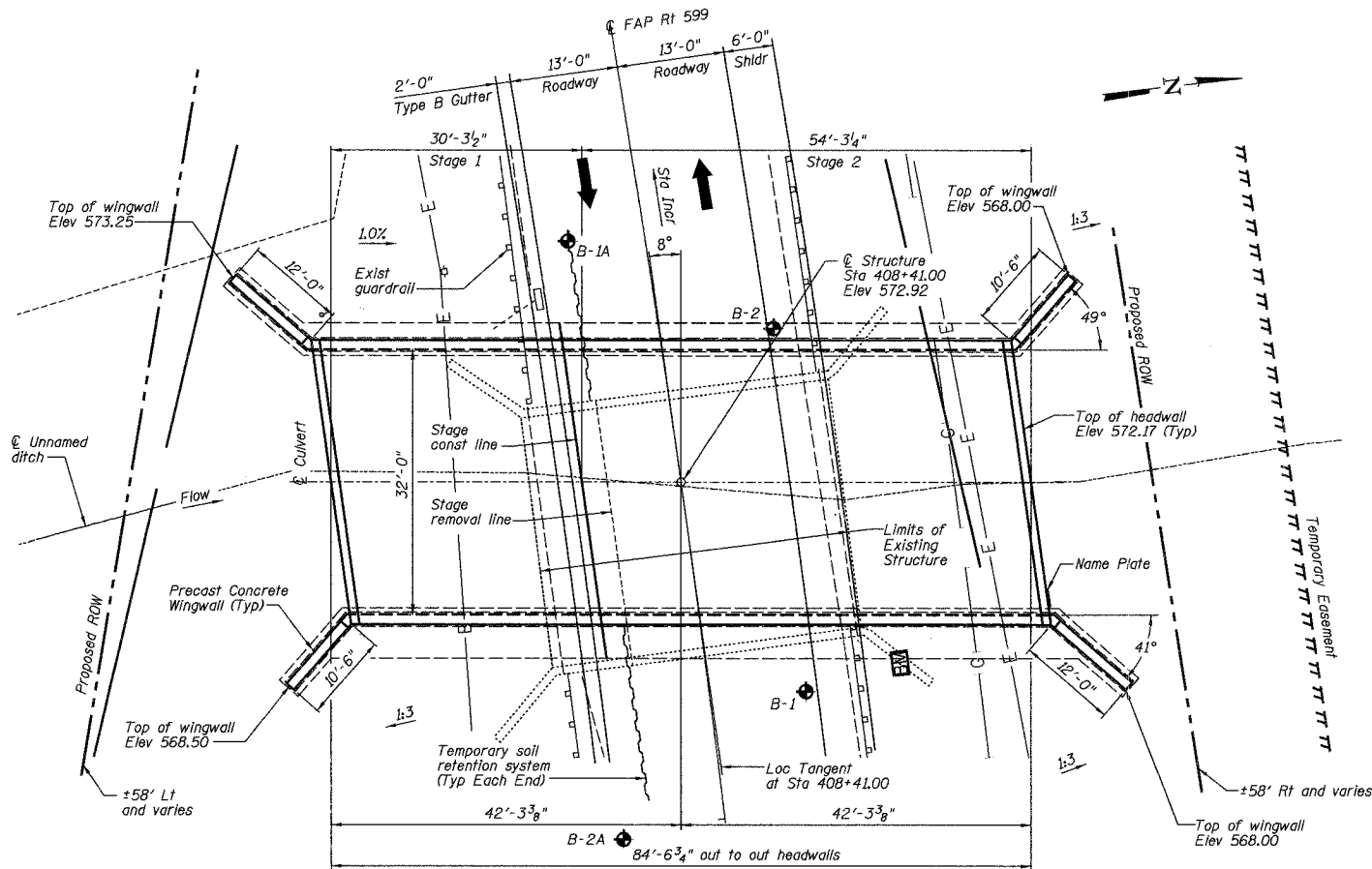
565

560



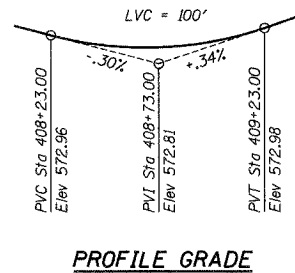
LONGITUDINAL SECTION

Max. Allowable  
Bearing Pressure = 5.0 TSF



PLAN

EX CURVE 1  
PI STA 409+32.70  
 $\Delta = 14^\circ 39' 17''$  (LT)  
D = 2° 52' 38"  
T = 256.06'  
R = 1,991.30'  
L = 509.32'  
E = 16.40'  
e = 0.04 (AVERAGE)  
PC STA 406+76.64  
PT STA 411+85.97



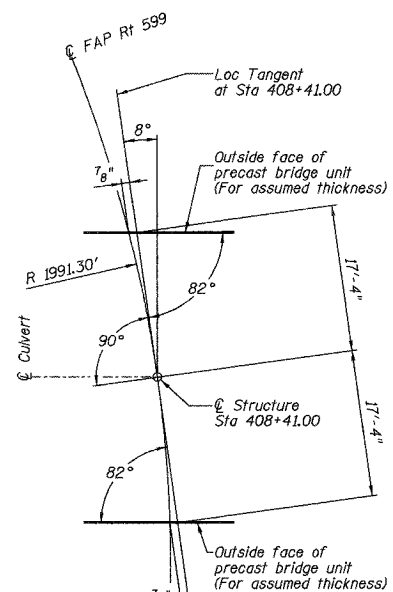
PROFILE GRADE

WATERWAY INFORMATION

Drainage Area = 1.95 sq mi		Low Grade Elev 573.00 @ Sta 407+00					
Flood Yr	Q	Opening Sq Ft	Nat. H.W.E.	Head-Ft	Headwater El	Exist Prop	Exist Prop
Design	50	1411	105.8	192.3	569.24	1.01	0.98
Base	100	1639	113.0	198.1	569.42	1.31	1.36
Max	500	2192	127.2	215.4	569.96	2.17	2.26

STATION 408+41.00  
BUILT 200 BY  
STATE OF ILLINOIS  
FAP ROUTE 599  
SECTION 42-MFT-BR  
LOADING HS20  
STR. NO. 081-1009

NAME PLATE  
See Std. 515001



OFFSET SKETCH

DESIGN SPECIFICATIONS

2002 AASHTO

LOADING HS20-44

Allow 50# / sq. ft. for future wearing surface.

DESIGN STRESSES

FIELD UNITS

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

PRECAST UNITS

$f'_c = 5,000$  psi  
 $f_y = 60,000$  psi (reinforcement)  
 $f_y = 65,000$  psi (welded wire fabric)

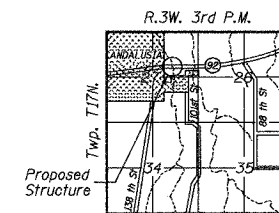
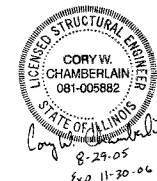
SEISMIC DATA

Seismic Performance Category (SPC) = A  
Bedrock Acceleration Coefficient (A) = .033  
Site Coefficient (S) = 1.0

Max. Allowable  
Bearing Pressure = 5.0 TSF

APPROVED  
FOR STRUCTURAL ADEQUACY ONLY

*Ralph E. Anderson*  
ENGINEER OF BRIDGES AND STRUCTURES



LOCATION SKETCH

GENERAL NOTES

Reinforcement bars shall conform to the requirements of AASHTO M31 or M322 Grade 60.

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

All Construction Joints shall be banded.

Excavation behind existing abutment walls shall be done before removing the existing superstructure. The Contractor shall sawcut the existing abutments at the stage removal line before Stage 1 removal.

The footing design for the precast structure is based on the following maximum service load reactions applied at the top of the footing/pedestal walls:  
Vertical: 9.8 kips/ft  $\perp$  + 4.6 kips/ft  $\parallel$   
Horizontal: 7.2 kips/ft  $\perp$  + 2.9 kips/ft  $\parallel$

The Contractor shall verify that the selected structure meets these design parameters. If the design parameters are exceeded, a complete footing design with calculations, details and the required seals shall be submitted for review and approval.

After the keyways have been grouted and cured, the joints on all three sides of the structure shall be externally sealed using 12" wide external sealing bands conforming to Article 1057.01. Cost included with Three Sided Precast Concrete Structures.

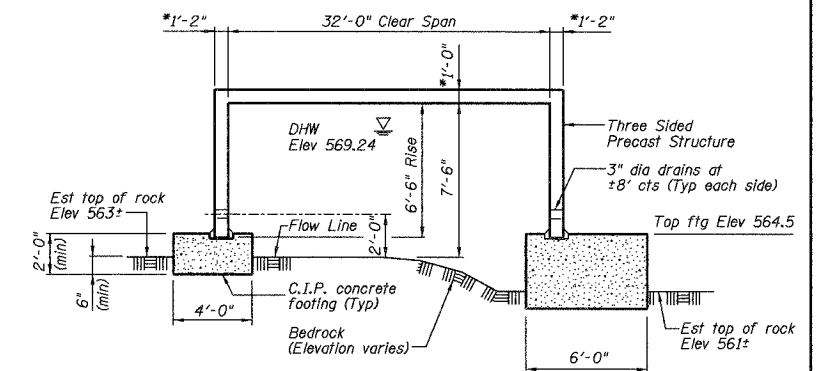
The option of using precast footings is not allowed. Portions of footings set in rock shall be poured against in-place rock.

The Contractor will fill any scour holes in the rock in the area of the structure with Class S1 Concrete. Cost included with Concrete Structures.

The minimum gross clear area of the opening of the structure shall be 192 sq ft.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures No. 1	Each	1	--	1
Rock Excavation for Structures	Cu Yd	--	18.4	18.4
Concrete Structures	Cu Yd	--	110.4	110.4
Reinforcement Bars	Pound	--	5670	5670
Name Plates	Each	1	--	1
Three Sided Precast Concrete Structure 32' x 6'-6"	Foot	84.6	--	84.6
Precast Concrete Substructure	L Sum	--	1	1
Temporary Soil Retention System	Sq Ft	--	271.8	271.8
Bar Splitters	Each	--	26	26



SECTION THRU BARREL LOOKING DOWNSTREAM

\*Assumed dimensions for three sided precast concrete structure. Dimensions may vary.

ILLINOIS ROUTE 92 OVER AN UNNAMED DITCH

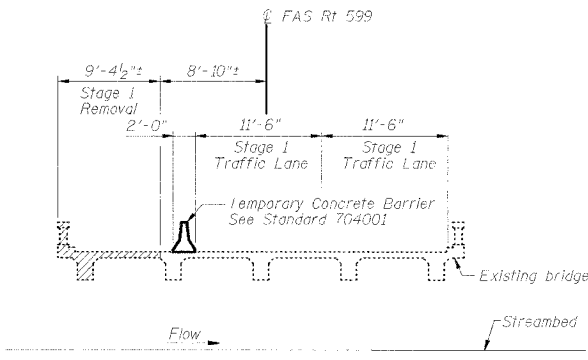
GENERAL PLAN AND ELEVATION

REVISIONS	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	DRAWN BY DATE R King 2/05
1	FAP ROUTE 599	CHECKED BY DATE BWP 2/05
2	SECTION 42-MFT-BR	DATE BY DATE CWC 2/05
3	SN 081-1009	BOOK NUMBER
4	STA 408+41.00	PROJECT NO. 4858-4
5	ROCK ISLAND COUNTY	SHEET NO. 35
6	HOMER L. CHASTAIN & ASSOCIATES, LLP CONSULTING ENGINEERS 184-001397	

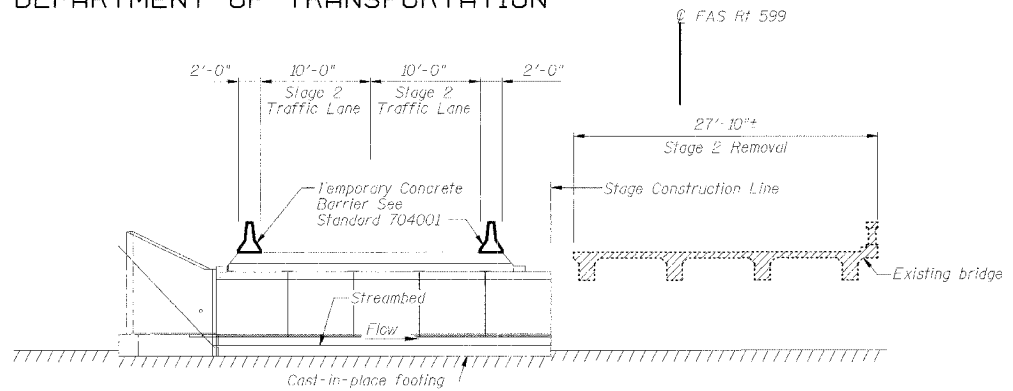
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Sheet No. 2  
of 7 Sheets

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 599	*	ROCK ISLAND	90	36
ILLINOIS DIST. NO.		PROJECT		
*42 MFT-BR		CONTRACT NO. 64641		

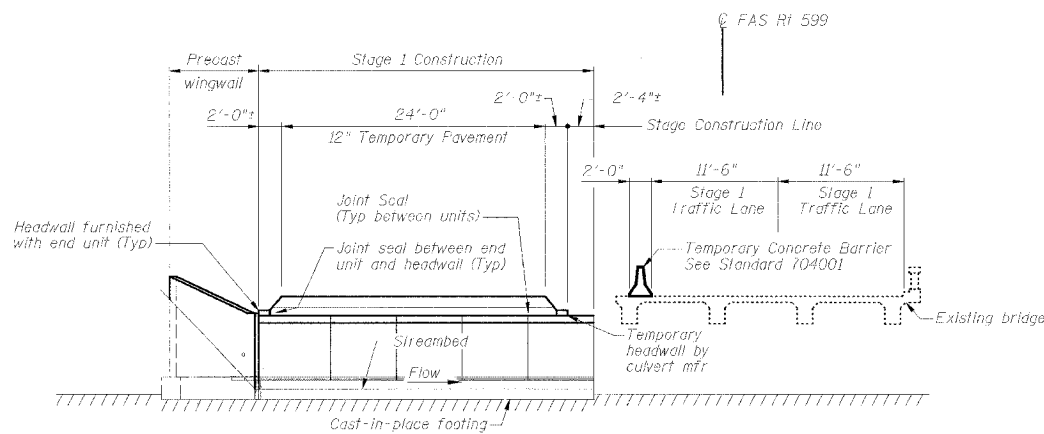


**STAGE 1 REMOVAL**  
(Looking Upstation)

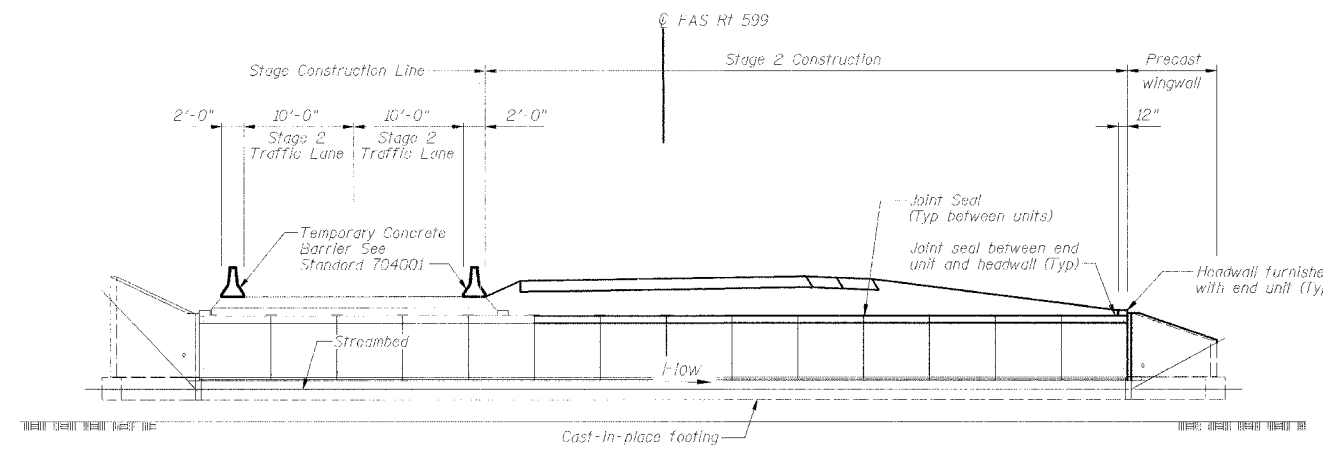


**STAGE 2 REMOVAL**  
(Looking Upstation)

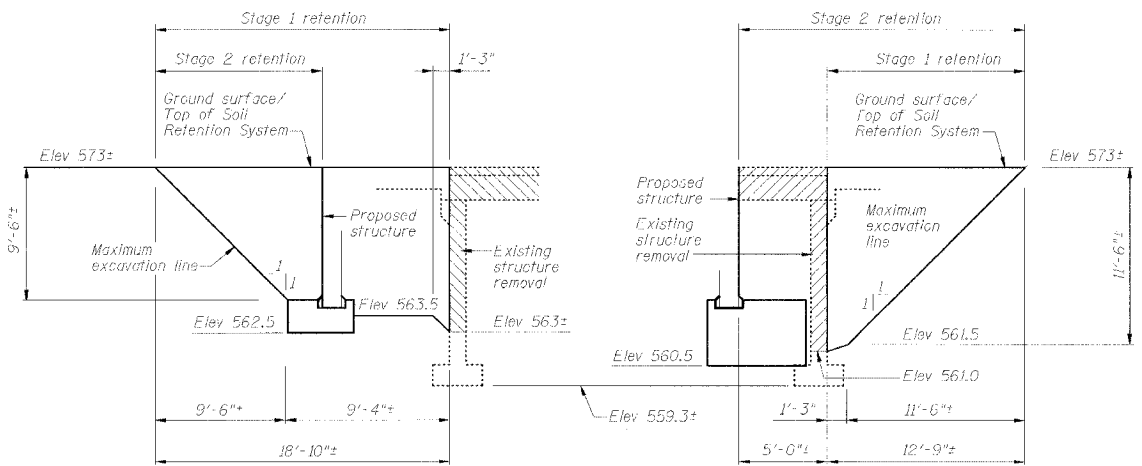
- NOTES**
1. For quantity and location of Temporary Concrete Barrier see Roadway Plans.
  2. Hatched areas indicate Removal of Existing Structure.
  3. Horizontal dimensions are at right angles to  $\odot$  Roadway.
  4. Stage 3 omitted. No work performed at structure during Stage 3. See Maintenance of Traffic Plans for Stage 3 details.



**STAGE 1 CONSTRUCTION**  
(Looking Upstation)

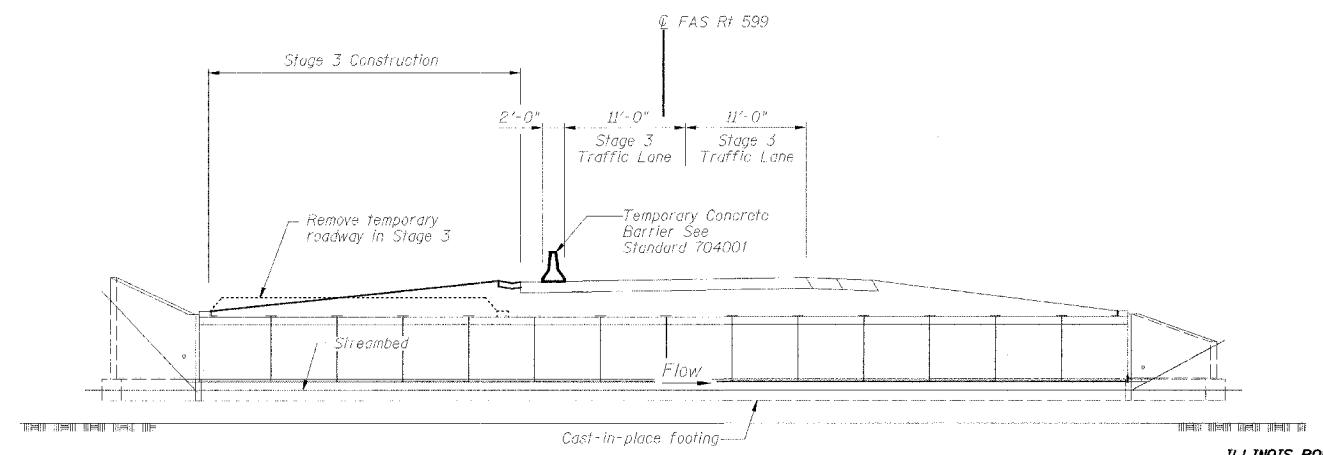


**STAGE 2 CONSTRUCTION**  
(Looking Upstation)



**TEMPORARY SOIL RETENTION DETAILS**

(Slope and horizontal dimensions are measured parallel to  $\odot$  Roadway)  
A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and approval by the Engineer. Approval requires 4 to 6 weeks.



**STAGE 4 CONSTRUCTION**  
(Looking Upstation)

ILLINOIS ROUTE 92 OVER AN UNNAMED DITCH

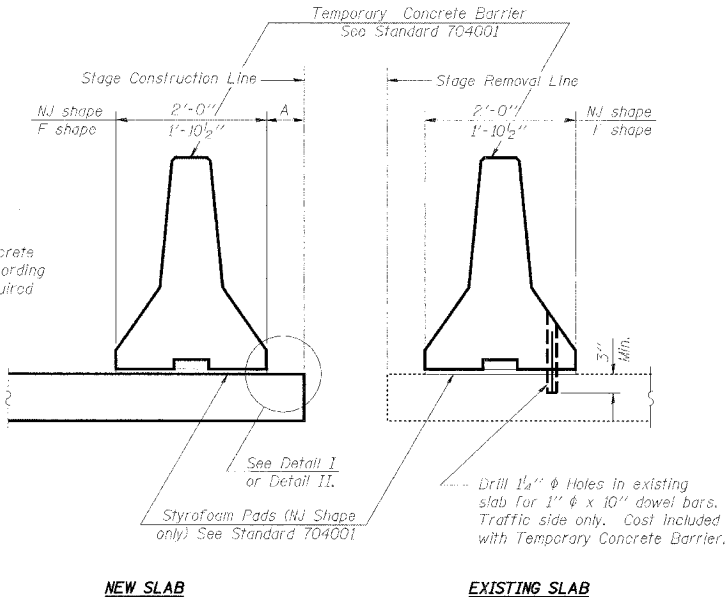
**CONSTRUCTION STAGING**

REVISIONS	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	DRAWN BY R King 2/05
1	FAP ROUTE 599	CHECKED BY BWP 2/05
2	SECTION 42 MFT-BR	DESIGNED BY CWC 2/05
3	SN 081-1009	BOOK NUMBER
4	STA 408+41.00	PROJECT NO.
5	ROCK ISLAND COUNTY	<b>4858-4</b>
6	HOMER L. CHASTAIN & ASSOCIATES, LLP CONSULTING ENGINEERS 84-001397	SHEET NO.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Sheet No. 3  
of 7 Sheets

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 599	*	ROCK ISLAND	90	37
FED. ROAD DIST. NO.		ILLINOIS	PROJECT	
*42 MFT-BR		CONTRACT NO. 64611		

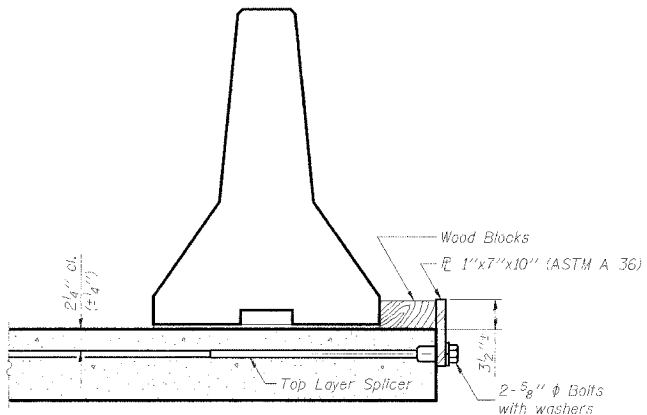


When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".

SECTIONS THRU SLAB

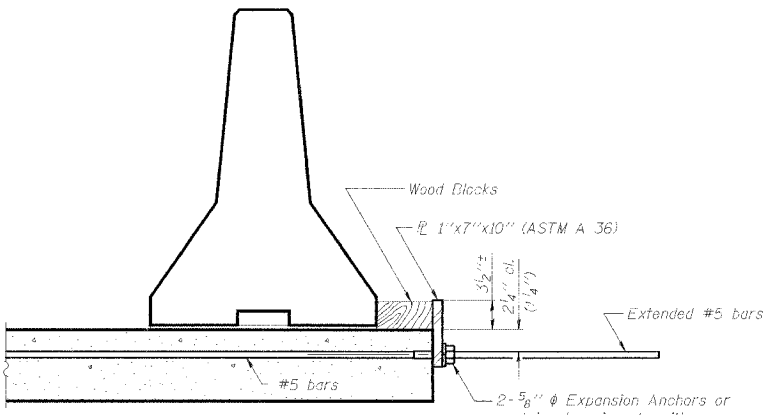
NOTES

- Detail I - With Bar Splicer or Couplers:  
Connect one (1) 1"x7"x10" steel plate to the top layer of couplers with 2-5/8" diameter bolts screwed to coupler at approximate center of each barrier panel.
- Detail II - With Extended Reinforcement Bars:  
Connect one (1) 1"x7"x10" steel plate to the concrete slab with 2-5/8" diameter Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate center of each barrier panel.  
Cost of anchorage is included with Temporary Concrete Barrier.



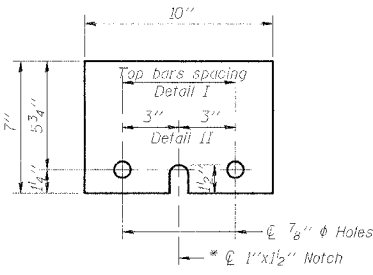
DETAIL I

The 1"x7"x10" Plate shall not be removed until Stage II Construction forms and reinforcement bars are in place.



DETAIL II

The 1"x7"x10" Plate shall not be removed until Stage II Construction forms and all reinforcement bars are in place and the concrete is ready to be placed.



1" x 7" x 10"

\* Required only with Detail II

ILLINOIS ROUTE 92 OVER AN UNNAMED DITCH

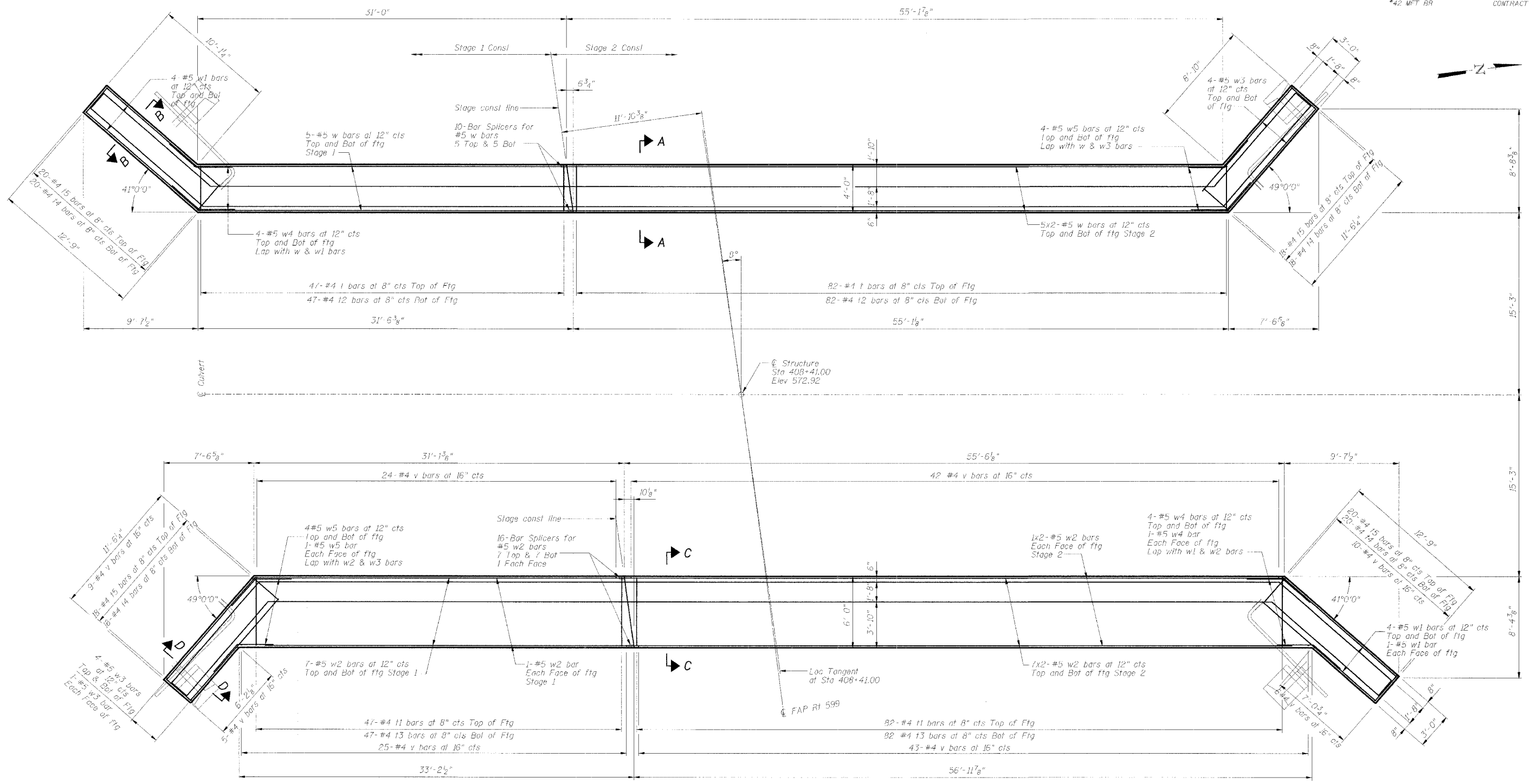
TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION

REVISIONS	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	DESIGNED BY DATE H King 2/05
1		CHECKED BY DATE BWP 2/05
2		DRAWN BY DATE CWC 2/05
3		BOOK NUMBER
4	FAP ROUTE 599 SECTION 42 MFT-BR	
5	SN 081-1009	
6	STA 408+41.00 ROCK ISLAND COUNTY	PROJECT NO. 4858-4
7	HOMER L. CHASTAIN & ASSOCIATES, LLP	SHEET NO.
8	CONSULTING ENGINEERS 184-001397	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Sheet No. 4  
of 7 Sheets

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 599	*	ROCK ISLAND	90	38
FEDERAL DISTRICT		ILLINOIS	PROJECT	
*42 MFT BR		CONTRACT NO. 64641		



FOOTING PLAN

**MAXIMUM BEARING PRESSURE**  
Applied = 3.5 ksf (at West Footing)  
Applied = 6.2 ksf (at East Footing)  
Applied = 3 ksf estimated (at Wingwall)

**MIN BAR LAP**  
#5 bars - 2'-2"

**NOTES**  
Structure footing is to be poured monolithically with wingwall footing.  
The new footings shall be set 6" minimum into sound rock. The thickness of the footings shall be increased if required to maintain this embedment.

ILLINOIS ROUTE 92 OVER AN UNNAMED DITCH

FOOTING DETAILS

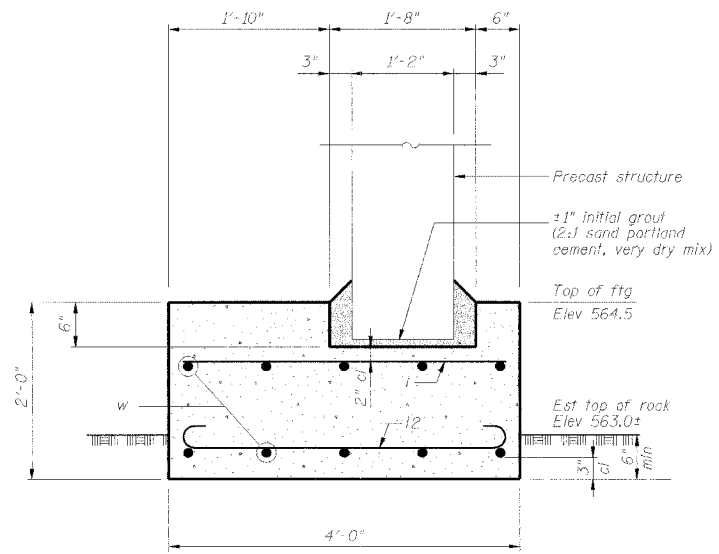
REVISIONS NO. DATE DETAILS 1 2 3 4 5 6 7 8 9 10 11 12		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS FAP ROUTE 599 STA 408+41.00	SECTION 42 MFT-BR SN 081-1009 ROCK ISLAND COUNTY	DRAWN BY DATE R King 2/05 CHECKED BY DATE BWP 2/05 DESIGNED BY DATE CWC 2/05 BOOK NUMBER PROJECT No. <b>4858-4</b> SHEET No.
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HOMER L. CHASTAIN & ASSOCIATES, LLP  
CONSULTING ENGINEERS  
04-001391

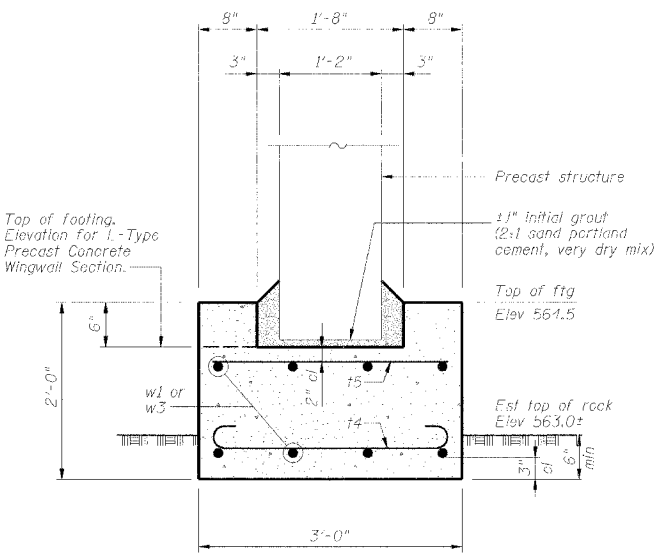
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Sheet No. 5  
of 7 Sheets

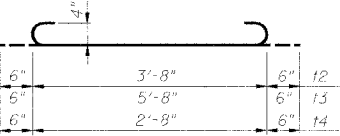
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 599	*	ROCK ISLAND	90	39
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		
*42 MFT BR		CONTRACT NO. 64541		



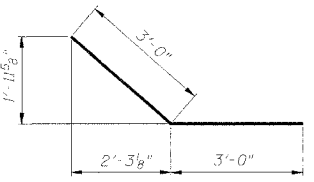
SECTION A-A



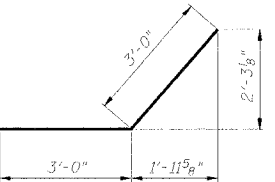
SECTION B-B



BARS t2, t3 & t4



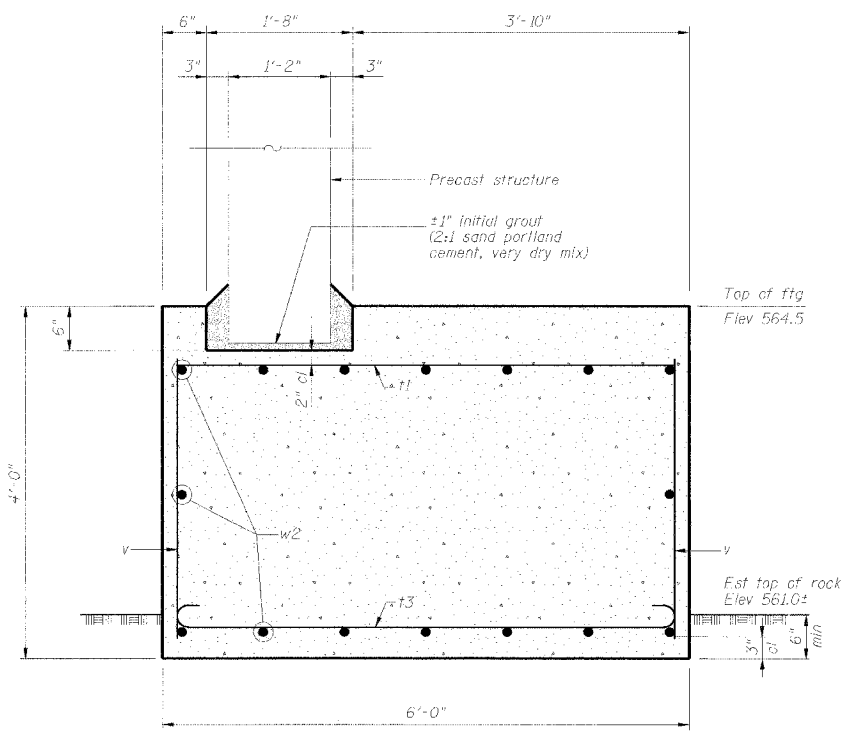
BAR w4



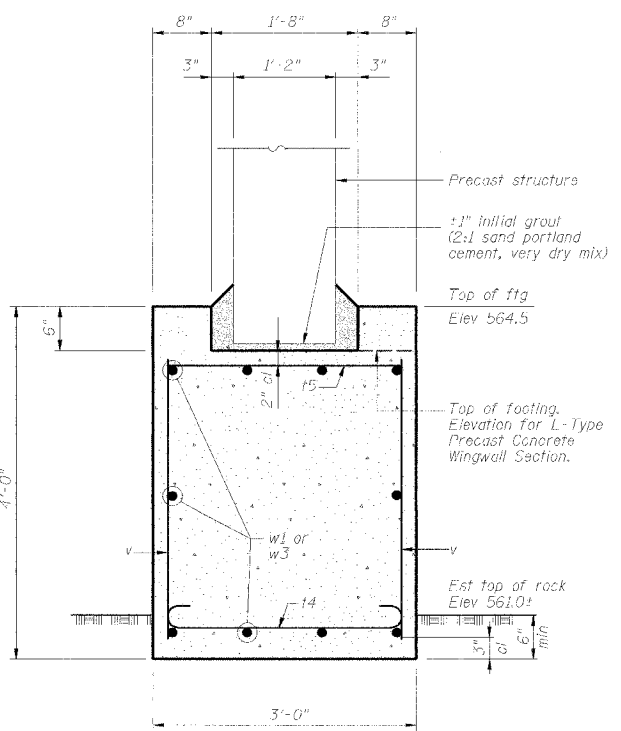
BAR w5

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
t	128	#4	3'-8"	—
t1	129	#4	5'-8"	—
t2	129	#4	4'-8"	—
t3	129	#4	6'-8"	—
t4	76	#4	3'-8"	—
t5	76	#4	2'-8"	—
v	164	#4	3'-7"	—
w	30	#5	30'-0"	—
w1	18	#5	12'-9"	—
w2	48	#5	31'-1"	—
w3	18	#5	11'-6"	—
w4	18	#5	6'-0"	—
w5	18	#5	6'-0"	—
Concrete Structures		Cu. Yd.	110.4	
Reinforcement Bars		Pound	5670	
Rock Excavation for Structures		Cu. Yd.	18.1	



SECTION C-C



SECTION D-D

ILLINOIS ROUTE 92 OVER AN UNNAMED DITCH

FOUNDATION DETAILS

REVISIONS	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	DRAWN BY DATE R King 2/05
1		CHECKED BY DATE BWP 2/05
2		DATE BY DATE CWC 2/05
3		BOOK NUMBER
4	FAP ROUTE 599 SECTION 42 MFT-BR	PROJECT NO. 4858-4
5	SN 081-1009	
6	STA 408+41.00 ROCK ISLAND COUNTY	
7	HOMER L. CHASTAIN & ASSOCIATES, LLP CONSULTING ENGINEERS 184-001397	SHEET NO.
8		
9		
10		
11		
12		

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Sheet No. 6  
of 7 Sheets

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 599	*	ROCK ISLAND	90	40
FED. ROAD DIST. NO.	ILLINOIS	PROJECT		
42 MFT-BR		CONTRACT NO. 64641		

The diameter of this part is the same as the diameter of the bar spliced.

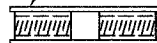
The diameter of this part is equal or larger than the diameter of bar spliced.

**ROLLED THREAD DOWEL BAR**



**\*\* ONE PIECE**

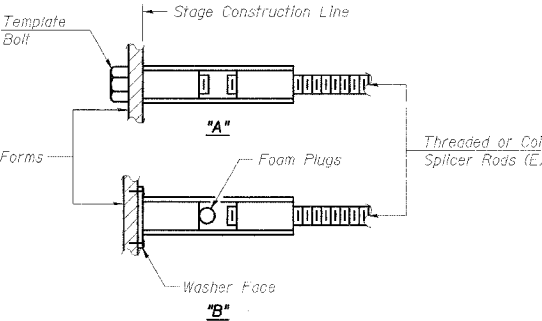
Wire Connector



**WELDED SECTIONS**

**BAR SPLICER ASSEMBLY ALTERNATIVES**

\*\* Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



**INSTALLATION AND SETTING METHODS**

"A": Set bar splicer assembly by means of a template bolt.  
"B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
(E): Indicates epoxy coating.

**NOTES**

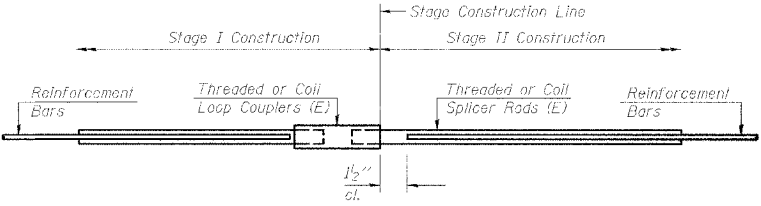
Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.  
Splicer rods shall be of minimum 60 ksi yield strength, threaded or called full length.  
All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.  
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.  
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- ① Minimum Capacity (Tension in kips) =  $1.25 \times f_y \times A_t$
- ② Minimum \*Full-out Strength (Tension in kips) =  $1.25 \times f_{s_{allow}} \times A_t$

Where  $f_y$  = Yield strength of lapped reinforcement bars in ksi.  
 $f_{s_{allow}}$  = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)  
 $A_t$  = Tensile stress area of lapped reinforcement bars.  
\* = 28 day concrete

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	5.9
#5	2'-0"	23.0	9.2
#6	2'-7"	33.1	13.3
#7	3'-5"	45.1	18.0
#8	4'-6"	58.9	23.6
#9	5'-9"	75.0	30.0
#10	7'-3"	95.0	38.0
#11	9'-0"	117.4	46.8

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."



**STANDARD**

Bar Size	No. Assemblies Required	Location
#5	10	West Footing
#5	16	East Footing

ILLINOIS ROUTE 92 OVER AN UNNAMED DITCH

**BAR SPLICER ASSEMBLY DETAILS**

REVISIONS	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	DRAWN BY R King 2/05
1	FAP ROUTE 599 SECTION 42 MFT-BR	CHECKED BY RWP 2/05
2	SN 081-1009	DATE 2/05
3	STA 408+41.00 ROCK ISLAND COUNTY	BY CWC 2/05
4	HOMER L. CHASTAIN & ASSOCIATES, LLP CONSULTING ENGINEERS 184-001397	DOOR NUMBER
5		PROJECT No. <b>4858-4</b>
6		SHEET No.
7		
8		
9		
10		
11		
12		



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Sheet No. 7  
of 7 Sheets

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 599	*	ROCK ISLAND	50	41
FEDERAL DIST. NO.		ILLINOIS PROJECT		
*42 MFT-BR		CONTRACT NO. 64641		

Illinois Department of Transportation  
Bridge Foundation Boring Log

Andalusia Twp. - Sec. 27 - T17N, R3W  
Elev. @ Center of Structure - 100.0  
PROJECT BRIDGE 081-0075 Date 07/07/94 Sh. 1 of 1  
ROUTE SA 9 Ditch on the east edge of Andalusia Bored by J. Twardowski  
SEC. 42 MFT STA. 408 + 35 Checked By T. Bratt

COUNTY Rock Island

STRUCT. NO. 081-0075  
Station 408+35  
Boring No. B-1  
Sta 408 + 34  
O/S 11' Rt

Surf Wat El. 91.5  
Groundwater El. at Compl

DEPTH	DESCRIPTION	Q <sub>u</sub>	W	At	Hrs
0	Ground Surface 93.9				
0.6	14 SILTY CLAY LOAM	0.6	14		
2.0	2 MEDIUM dark brown SILTY CLAY LOAM	0.6	13		
3.0	3				
5.0	5 MEDIUM brown SILTY CLAY LOAM	0.6	19		
3.0	3 VERY SOFT brown SANDY LOAM	0.2	15		
2.0	2				
1.0	1 Streambed Elev. - 91.7 First Encounter SOFT dark gray SILTY CLAY w/SAND lens	0.3	25		
2.0	2				
100 - 1'	100 - 1' pent SHALE				
15'	15' END OF BORING - AUGER REFUSAL				

1-Std Penetr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

Illinois Department of Transportation  
SOIL BORING LOG

Andalusia Twp. - NE 1/4 SEC. 27, T17N, R3E, W3  
PROJECT P92-169-00 IL 92 over ditch, east city limits of Andalusia Date 8/27/01  
ROUTE FAP 599 DESCRIPTION P92-169-00 IL 92 over ditch, east city limits of Andalusia LOGGED BY C. Jenkins  
SECTION 42MFT-1 LOCATION Andalusia Twp. - NE 1/4 SEC. 27, T17N, R3E, W3  
COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 081-0075  
Station 408+35  
Boring No. B-2  
Sta 408 + 38  
O/S 13' Rt

Surf Water Elev. 90.7 ft  
Stream Bed Elev. 90.5 ft  
Groundwater Elev. None ft  
First Encounter Upon Completion Dry ft  
After Hrs. ft

DEPTH	DESCRIPTION	Q <sub>u</sub>	W	At	Hrs
0.6	0.6 MEDIUM black SILTY LOAM	0.6	11		
92.0	92.0 MEDIUM brown/black SANDY LOAM	2.5	6.8	13	
95.0	95.0				
97.0	97.0 LOOSE tan SAND with some GRAVEL	2.3	5		
97.0	97.0 LOOSE tan/gray SAND	2.4			
98.0	98.0				
98.0	98.0 VERY DENSE gray SHALE	2.4			
97.0	97.0 Auger Refusal				
97.0	97.0 End of Boring				

The Unconfined Compressive Strength (UCS) Failure Mode is Indicated by @-Bulge, S-Shear, P-Penetrometer  
The SPT (N) value is the sum of the last two blow values in each sampling zone (ASTM D206) 685, from 137 Rev. 8-99

Illinois Department of Transportation  
SOIL BORING LOG

Andalusia Twp. - Sec. 27 - T17N, R3W  
PROJECT BRIDGE 081-0075 Date 07/07/94 Sh. 1 of 1  
ROUTE SA 9 Ditch on the east edge of Andalusia Bored by J. Twardowski  
SEC. 42 MFT STA. 408 + 35 Checked By T. Bratt

COUNTY Rock Island

STRUCT. NO. 081-0075  
Station 408+35  
Boring No. B-2  
Sta 408 + 38  
O/S 13' Rt

Surf Wat El. 91.5  
Groundwater El. at Compl 98.2

DEPTH	DESCRIPTION	Q <sub>u</sub>	W	At	Hrs
0	0 Ground Surface 100.4				
0.5	0.5 12 SOFT dark brown SILTY CLAY LOAM	0.5	12		
5.0	5 MEDIUM dark brown SANDY LOAM	1.0	11		
4.0	4				
3.0	3 same as above	0.7	14		
3.0	3				
3.0	3 VERY SOFT dark brown SANDY LOAM	0.2	14		
3.0	3				
5.0	5 Streambed Elev. - 91.2				
9.0	9 VERY DENSE dark gray SHALE	21			
21.0	21				
80.0	80				
100 - 1'	100 - 1' pent VERY DENSE dark gray SHALE				
15'	15' END OF BORING - AUGER REFUSAL				

1-Std Penetr Test: 2" OD Sampler, 140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

Illinois Department of Transportation  
SOIL BORING LOG

Andalusia Twp. - NE 1/4 SEC. 27, T17N, R3E, W3  
PROJECT P92-169-00 IL 92 over ditch, east city limits of Andalusia Date 8/27/01  
ROUTE FAP 599 DESCRIPTION P92-169-00 IL 92 over ditch, east city limits of Andalusia LOGGED BY C. Jenkins  
SECTION 42MFT-1 LOCATION Andalusia Twp. - NE 1/4 SEC. 27, T17N, R3E, W3  
COUNTY Rock Island DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 081-0075  
Station 408+35  
Boring No. B-2a  
Sta 408 + 34  
O/S 13.00ft Lt Cl

Surf Water Elev. 90.7 ft  
Stream Bed Elev. 90.5 ft  
Groundwater Elev. Dry ft  
First Encounter Upon Completion Dry ft  
After Hrs. ft

Rock Probe

Shale @ 10'

End of Rock Probe Auger Refusal @ 10.2'

End of Boring

The Unconfined Compressive Strength (UCS) Failure Mode is Indicated by @-Bulge, S-Shear, P-Penetrometer  
The SPT (N) value is the sum of the last two blow values in each sampling zone (ASTM D206) 685, from 137 Rev. 8-99

NOTE:  
The elevation datum on boring logs 100.00 = Elev 573.2 on plans.

ILLINOIS ROUTE 92 OVER AN UNNAMED DITCH

SOIL BORING LOGS

REVISIONS	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	DRAWN BY DATE R King 2/05
1	FAP ROUTE 599 SECTION 42 MFT-BR	CHECKED BY DATE BWP 2/05
2	SN 081-1009	DATE BY DATE CWC 2/05
3	STA 408+41.00 ROCK ISLAND COUNTY	BOOK NUMBER
4	HOMER L. CHASTAIN & ASSOCIATES, LLP CONSULTING ENGINEERS 184-001397	PROJECT No. 4858-4
5		SHEET No.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

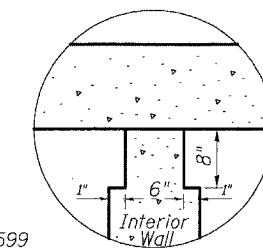
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 599	42 MFT-T	ROCK ISLAND	90	42
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

Contract NO: 64641

Bench Mark #400:  
Cut "□" SE corner of west wingwall  
at SW quad of 11 92 & 85th St West  
Elev 579.76

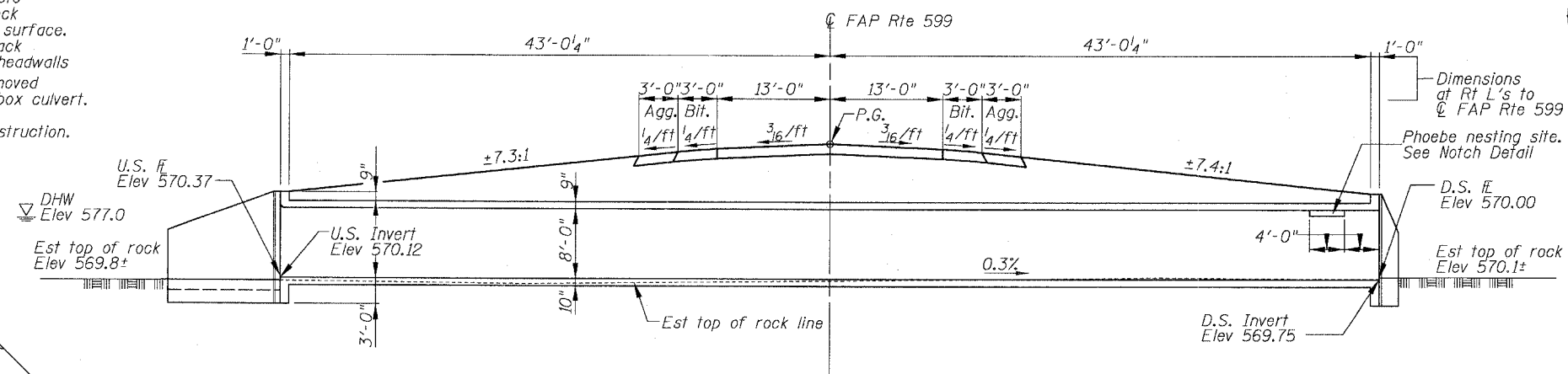
Existing Structure (SN 081-1001):  
A single span, cast in place concrete  
slab bridge with a 20" concrete deck  
and a bituminous concrete wearing surface.  
The bridge length is 21' back to back  
of abutments and 53'-6" between headwalls.  
The existing structure is to be removed  
and replaced with a double 10'x8' box culvert.

The road will be closed during Construction.  
No salvage.



NOTCH DETAIL

- GENERAL NOTES**
- Reinforcement bars shall conform to the requirements of AASHTO M31, or M322 Grade 60.
  - Excavation behind existing abutment walls shall be done before removing the existing superstructure.
  - Precast concrete culvert construction option will not be allowed.
  - All Construction joints shall be bonded.
  - Excavate 1' underneath the proposed cutoff walls and the stem of the short wing walls into shale. The footprint of excavation shall extend 1' outside of each element. Use granular backfill as a replacement material.
  - Over excavate 6" below the toe of the L type walls and restore the over excavation with seal coat concrete. The excavated area at the front face of the wall shall be filled with granular backfill. No over-excavation should occur behind the wing to allow the rear face of the stem and footing to be placed against the excavated shale surface.



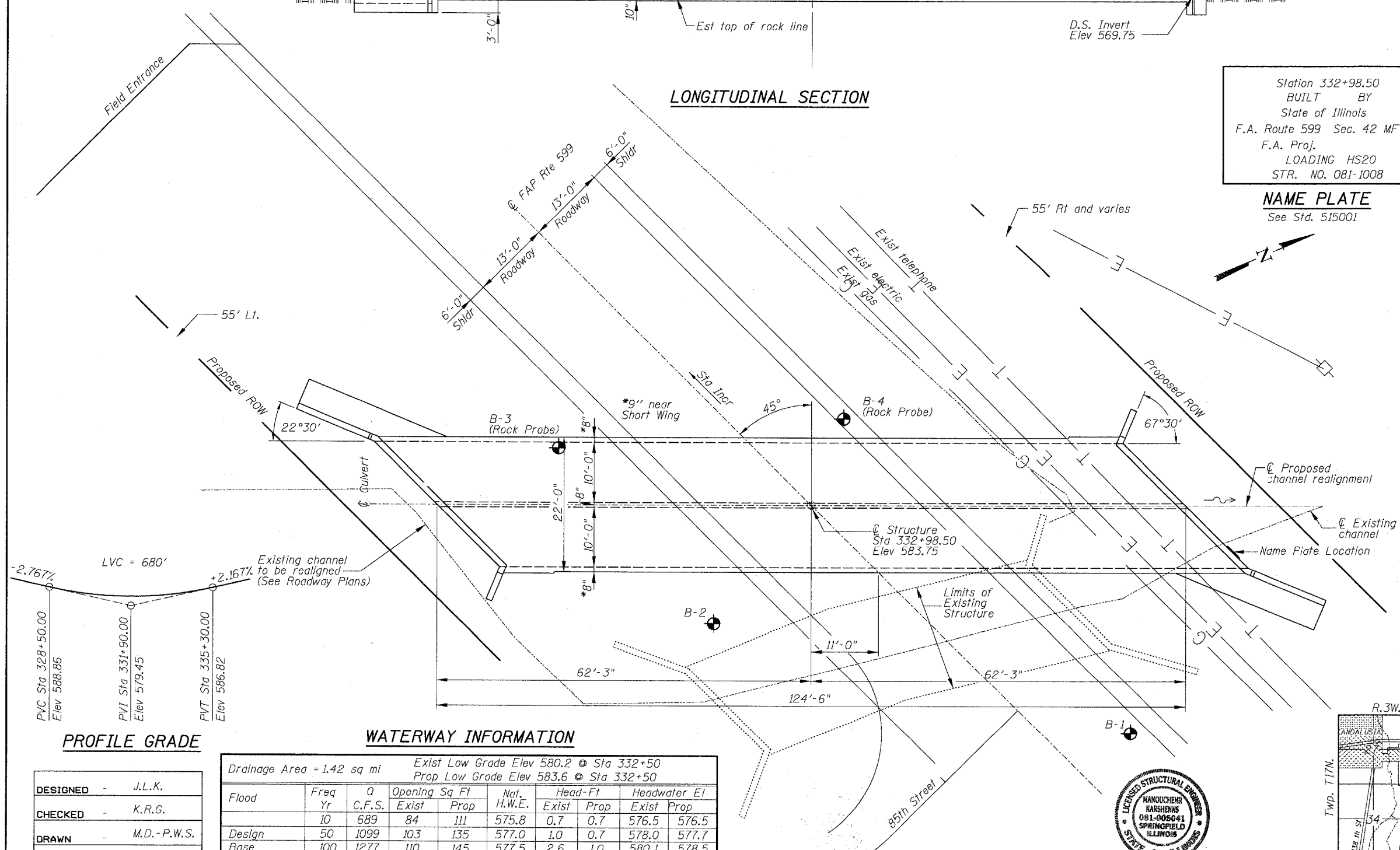
LONGITUDINAL SECTION

Station 332+98.50  
BUILT BY  
State of Illinois  
F.A. Route 599 Sec. 42 MFT-T  
F.A. Proj.  
LOADING HS20  
STR. NO. 081-1008

NAME PLATE  
See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures No. 2	Each	1
Concrete Box Culverts	Cu.Yd.	271.9
Reinforcement Bars	Pound	51160
Name Plates	Each	1
Rock Excavation for Structures	Cu. Yd.	14.5



PLAN

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications  
LOADING HS20-44

Allow 50#/sq. ft. for future wearing surface.

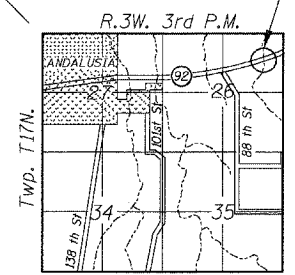
DESIGN STRESSES

FIELD UNITS  
f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)

SEISMIC DATA

Seismic Performance Category (SPC) = A  
Bedrock Acceleration Coefficient (A) = .033  
Site Coefficient (S) = 1.0

APPROVED  
FOR STRUCTURAL ADEQUACY ONLY  
*Ralph E. Anderson*  
ENGINEER OF BRIDGES AND STRUCTURES



LOCATION SKETCH

GENERAL PLAN AND ELEVATION  
FAP ROUTE 599 - SECTION 42 MFT-T  
ROCK ISLAND COUNTY  
STATION 332+98.50  
STRUCTURE NO. 081-1008

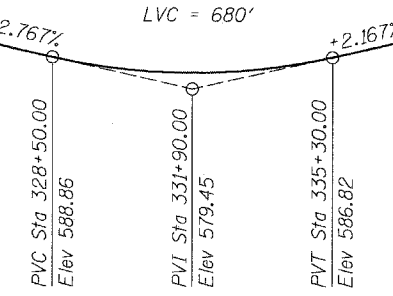
MID-AMERICA ENGINEERING SERVICES  
975 South Durkin Dr, Springfield IL 62704



*m. J. Karshenas*  
Date

Illinois Structural No.

PROFILE GRADE



WATERWAY INFORMATION

Drainage Area = 1.42 sq mi  
Exist Low Grade Elev 580.2 @ Sta 332+50  
Prop Low Grade Elev 583.6 @ Sta 332+50

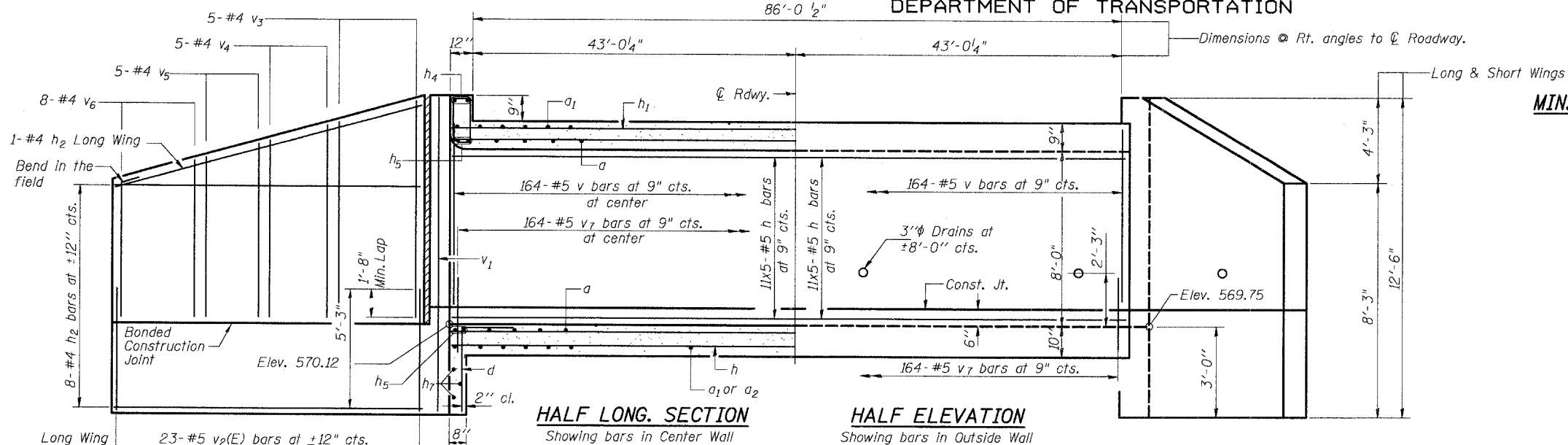
Flood	Freq Yr	Q C.F.S.	Opening Sq Ft		Nat. H.W.E.	Head-Ft		Headwater El	
			Exist	Prop		Exist	Prop	Exist	Prop
Design	10	689	84	111	575.8	0.7	0.7	576.5	576.5
Base	50	1099	103	135	577.0	1.0	0.7	578.0	577.7
Overtop (E)	100	1277	110	145	577.5	2.6	1.0	580.1	578.5
Max Calc	125	1300	112	145	577.6	2.6	1.0	580.2	580.2
	500	1707	124	160	578.4	2.9	2.0	581.3	580.4

DESIGNED	-	J.L.K.
CHECKED	-	K.R.G.
DRAWN	-	M.D.-P.W.S.
CHECKED	-	K.R.G.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	STATION	SHEET NO.	SHEET NO. 2 4 SHEETS
FAP 599	42 MFT-T	ROCK ISLAND	90	43	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

Contract No. 64641



**MIN. REBAR LAP LENGTH**

Unless Noted otherwise  
#4 Bar Size = 1'-4"  
#5 Bar Size = 1'-8"

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a	300	#7	23'-5"	U
a1	374	#8	9'-8"	U
a2	114	#4	7'-4"	U
d	40	#4	4'-6"	L
h	385	#5	26'-3"	U
h1	136	#5	32'-4"	U
h2	20	#4	22'-4"	U
h3	26	#8	8'-10"	L
h4	4	#9	30'-0"	U
h5	8	#7	30'-6"	U
h6	20	#8	12'-11"	L
h7	6	#6	30'-0"	U
s	60	#4	4'-7"	U
v	494	#5	8'-0"	U
v1	14	#4	12'-2"	U
v2(E)	46	#5	5'-3"	U
v3	10	#4	8'-9"	U
v4	10	#4	7'-9"	U
v5	10	#4	6'-10"	U
v6	16	#4	5'-11"	U
v7	494	#5	3'-0"	U
w	32	#5	21'-0"	U
z	80	#7	8'-8"	L
Concrete Box Culverts			Cu. Yd.	271.9
Reinforcement Bars			Pound	51160

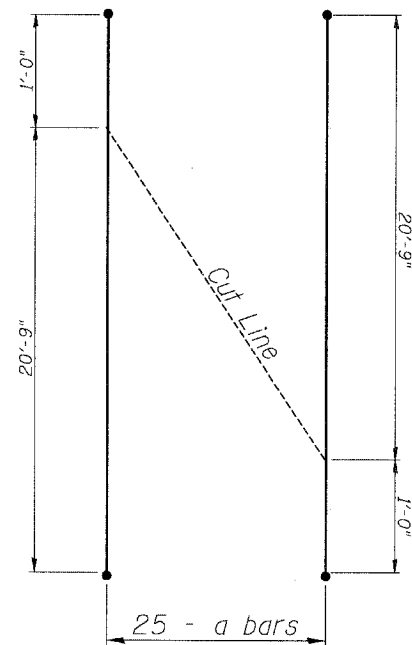
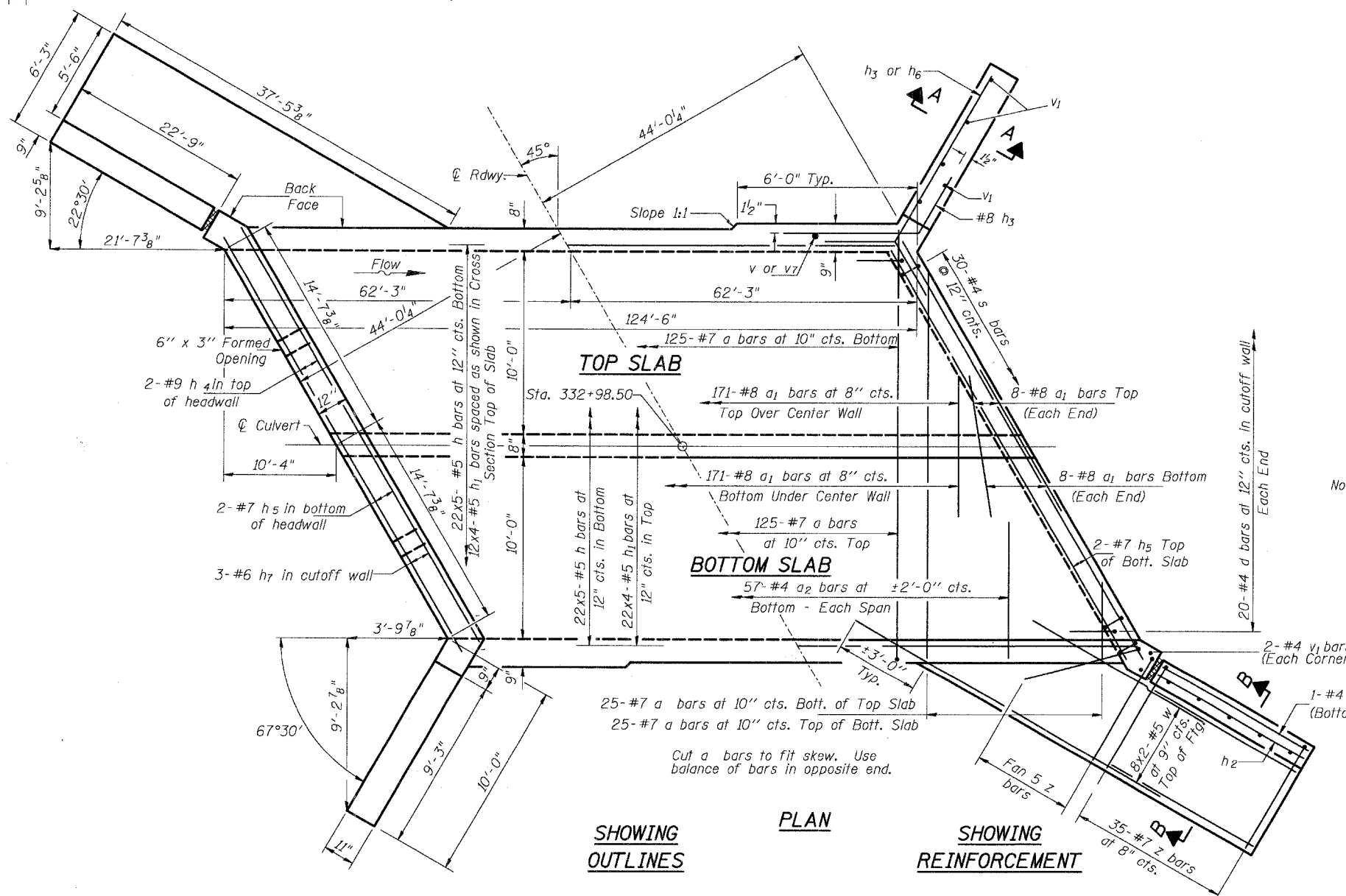
\* Reinforcement bars designated (E) shall be epoxy coated. The cost of Epoxy Coating is included in the pay item "Reinforcement Bars".

Notes: A distance of half the length of the short wingwall but not less than six feet of the barrel shall be poured monolithically with the short wingwalls.  
Bars indicated thus 12x4-#5 etc. indicates 12 lines of bars with 4 lengths per line.

The cost of porous granular backfill in the excavated areas around the cut off wall and the horizontal cantilever wall stem and the seal coat concrete below the toe & the porous granular backfill in front of the L-Type wing is included in the pay item "Concrete Box Culverts".

**CULVERT DETAILS**  
FAP ROUTE 599 - SECTION 42 MFT-T  
ROCK ISLAND COUNTY  
STATION 332+98.50  
STRUCTURE NO. 081-1008

MID-AMERICA ENGINEERING SERVICES  
975 South Durkin Dr, Springfield IL 62704



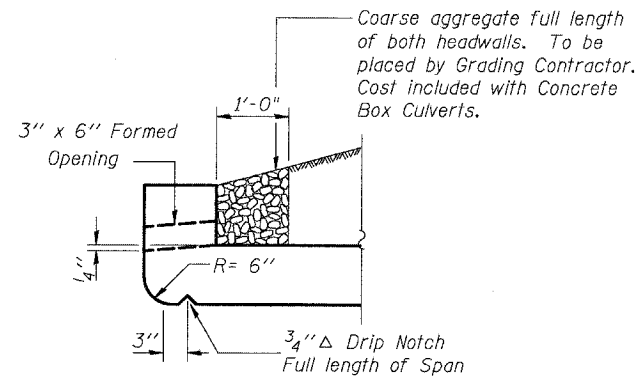
Bar Cutting Diagram

DESIGNED	-	J.L.K.
CHECKED	-	K.R.G.
DRAWN	-	M.D.-P.W.S.
CHECKED	-	K.R.G.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

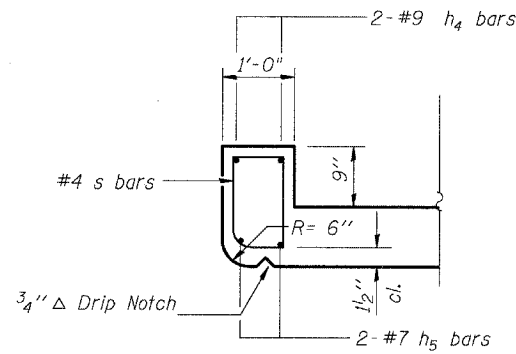
ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
FAP 599	42 MFT-T	ROCK ISLAND	90	44
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

Contract No. 64641



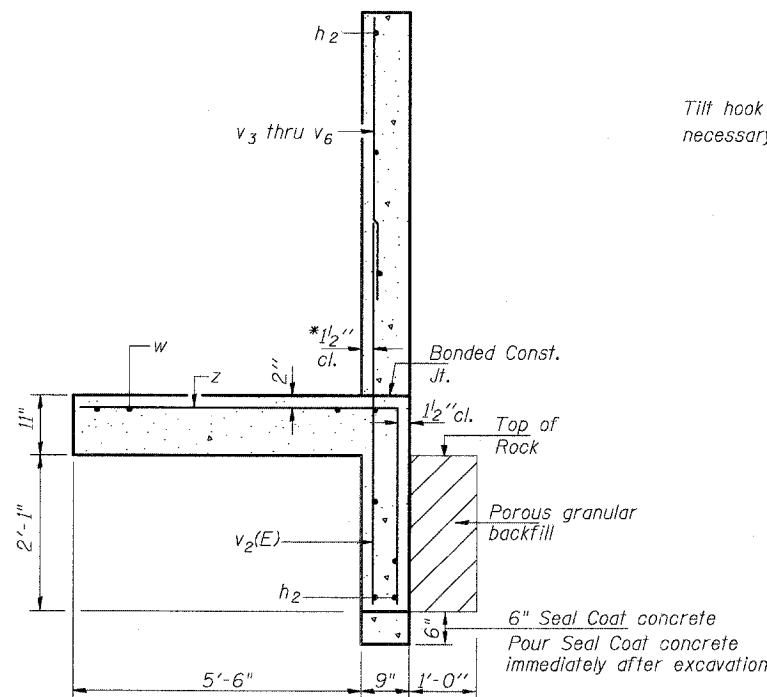
**DRAIN DETAIL**

Upstream & Downstream Ends



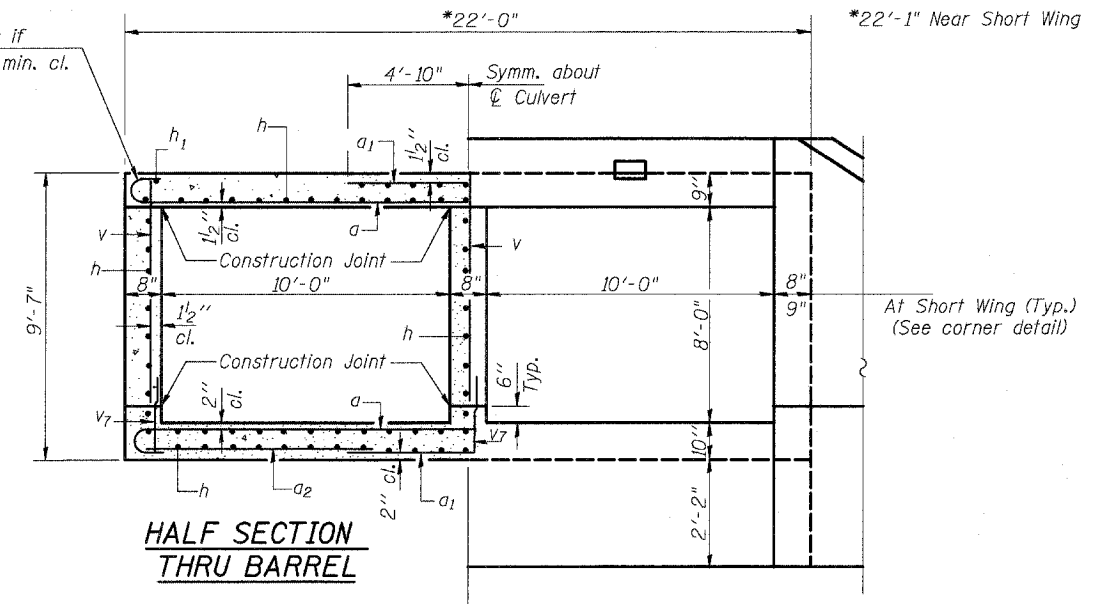
**HEADWALL REINFORCEMENT DETAIL**

Upstream & Downstream Ends



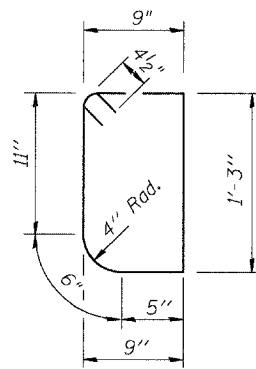
**SECTION B-B**

\*  $v_2(E)$  bars shall not be placed more than  $1\frac{1}{2}$ " cl. from back face of wingwalls.  
Maximum footing pressure = 3060 lbs/sq. ft.

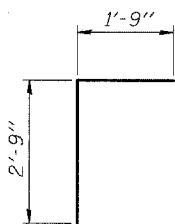


**HALF SECTION THRU BARREL**

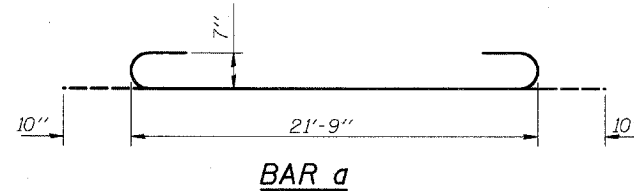
**HALF END ELEVATION**



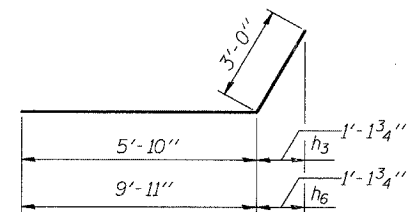
**BAR s**



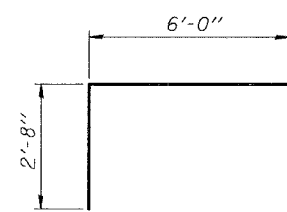
**BAR d**



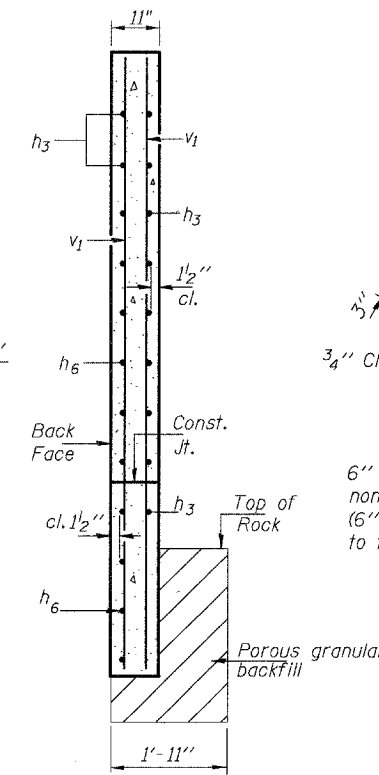
**BAR a**



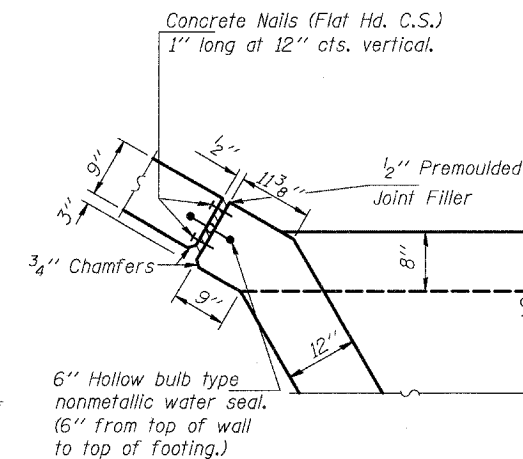
**BARS  $h_3$  &  $h_6$**



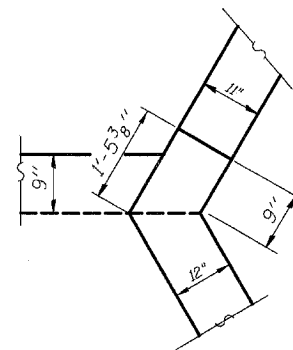
**BAR z**



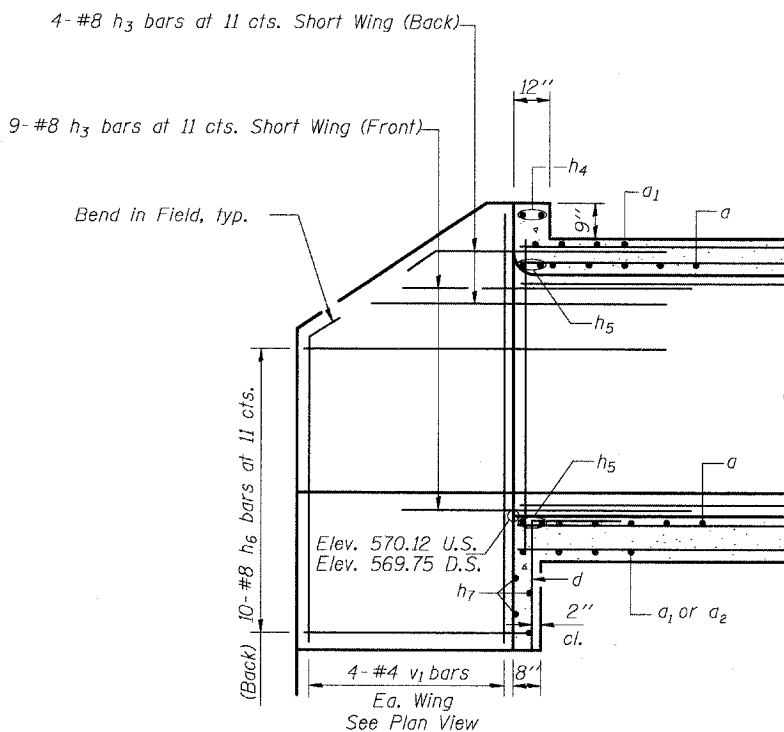
**SECTION A-A**



**CORNER DETAIL (LONG WING)**



**CORNER DETAIL (SHORT WING)**



**REINFORCEMENT DETAILS SHORT WING**

DESIGNED	-	J.L.K.
CHECKED	-	K.R.G.
DRAWN	-	M.D.-P.W.S.
CHECKED	-	K.R.G.

MISCELLANEOUS DETAILS  
FAP ROUTE 599 - SECTION 42 MFT-T  
ROCK ISLAND COUNTY  
STATION 332+98.50  
STRUCTURE NO. 081-1008

MID-AMERICA ENGINEERING SERVICES  
975 South Durkin Dr, Springfield IL 62704

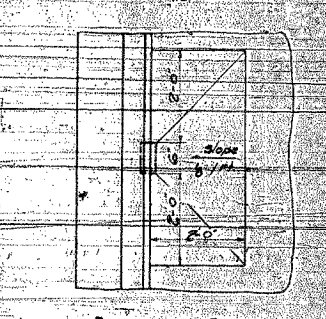
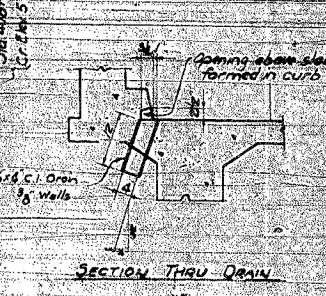
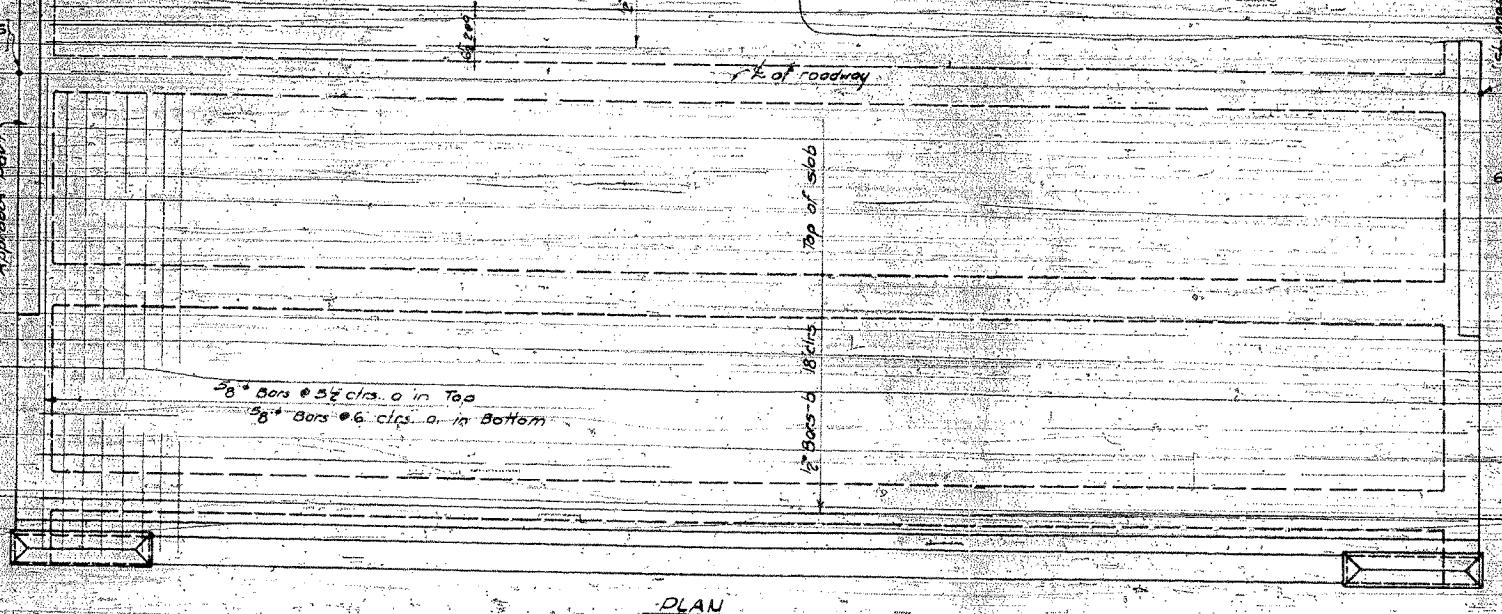
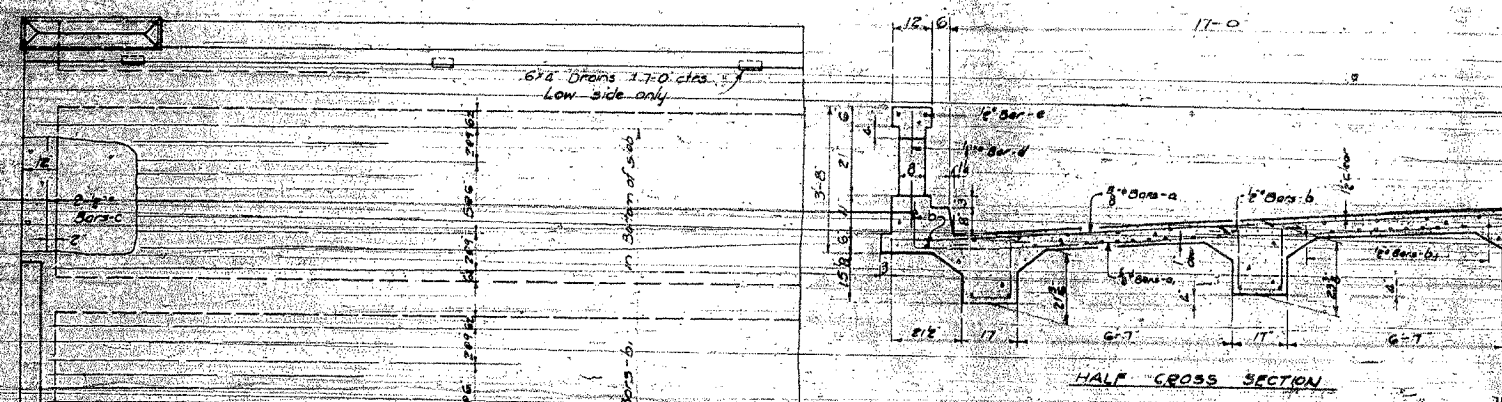
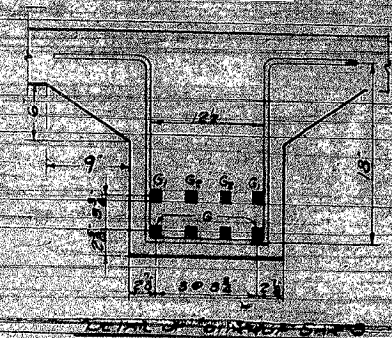
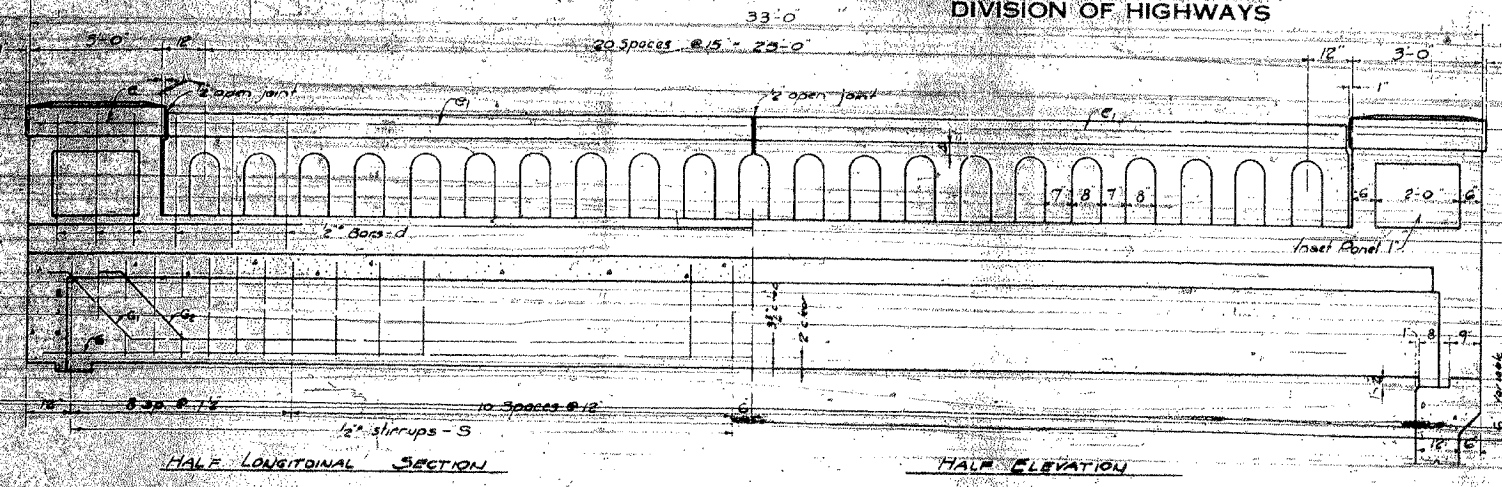
Work this Sheet with Sheet No. 2 of 4.



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

MAP SHEET	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-BR & 42MFT-T	ROCK ISLAND	90	46
STA.		TO STA.		

EXISTING CONDITIONS:  
**CONTRACT 64641**  
**FOR INFORMATION ONLY**



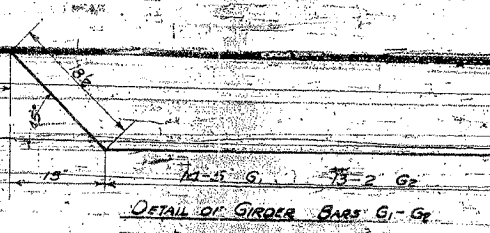
**BILL OF MATERIAL**

BAR	NO.	SIZE	LENGTH
a	70	2"	19'-3"
a1	64	"	20'-0"
b	40	1/2"	16'-9"
b1	80	"	16'-9"
c	8	"	19'-0"
d	56	"	3'-0"
e	8	"	3'-0"
e1	8	"	3'-0"
g	20	1 1/2"	32'-6"
g1	10	"	32'-9"
g2	10	"	30'-3"
g3	140	1/2"	6'-0"

Class X Concrete - C.I. 497  
Handrail Concrete - C.I. 36  
Reinforcing Steel - Lbs. 12600  
Floor Drains - Each 6  
Machine Plate - Each 1

Use class X concrete throughout.  
Concrete above top of roll base designated as 'Handrail' concrete.  
Aggregate which is to be used in handrails must be absolutely free of chert, flint, lignite, ironite and soft sandstone.  
Reinforcement bars shall be placed and fastened according to Art. 45-3 of 3rd Spec. Concrete. Bars shall be given a rough finish according to Art. 45-3(c) 3rd Specifications.

COMPUTED	PPR	EXAMINED	19-25
STANDARD	CHECKED	PASSED	ENTRUST ENGINEER
	DRAWN	PASSED	ENTRUST ENGINEER
	CHECKED	PASSED	ENTRUST ENGINEER
SPECIAL	ASSEMBLED	APPROVED	ENGINEER OF DESIGN
	CHECKED	APPROVED	CHIEF SURVEY ENGINEER



S.A. ROUTE 9th SEC 42-B M.F.T.  
ROCK ISLAND COUNTY  
STA 408+35

Existing concrete thru girder 25 span  
 22' rdy to be removed by Contractor  
 S.M. Top E. end of 3 Headwall Bridge  
 at Sta 408+35 Elev 574.72

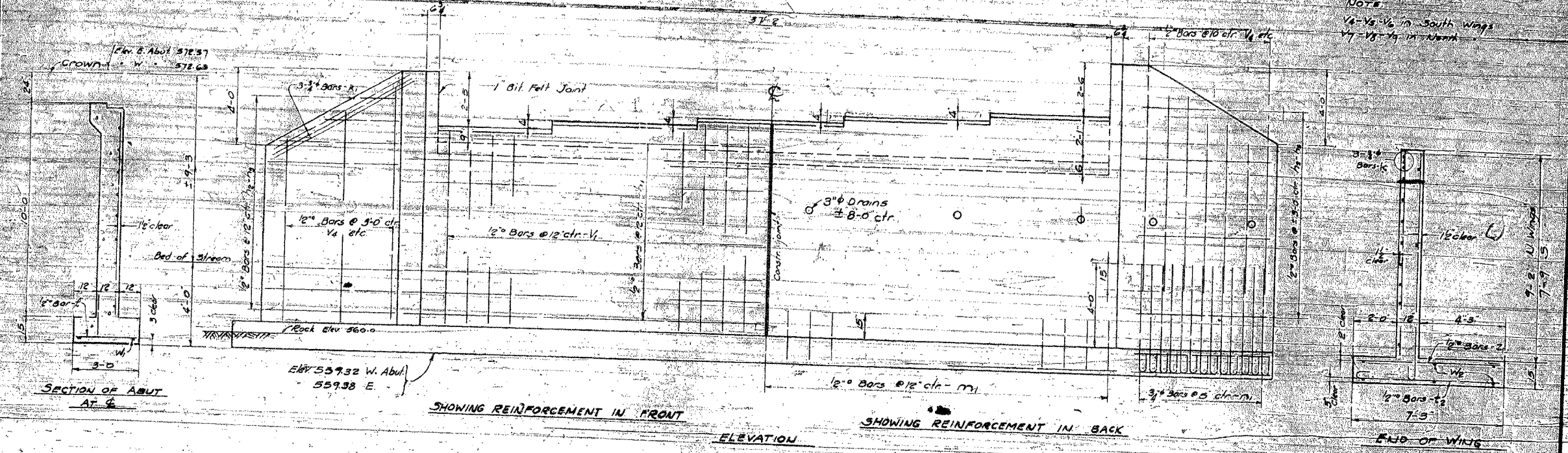
STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
 DIVISION OF HIGHWAYS

F&P ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-RR & 42MFT-1-7	ROCK ISLAND	90	47
STA.	TO STA.			

EXISTING CONDITIONS:  
 CONTRACT 64641  
 FOR INFORMATION ONLY

SHEET NO. 2  
 2 SHEETS

NOTE:  
 1/4" - 1/2" in South Wings  
 1/4" - 1/2" in North



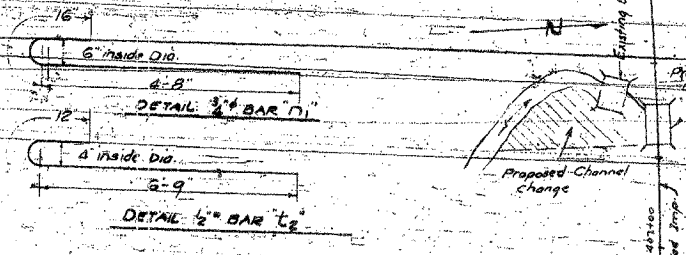
BILL OF MATERIAL

BAR	NO	SIZE	LENGTH
V1	34	1/2"	9'-0"
V2	32	1/2"	9'-9"
V3	16	1/2"	10'-6"
V4	10	1/2"	8'-0"
V5	10	1/2"	6'-6"
V6	10	1/2"	5'-0"
V7	10	1/2"	9'-3"
V8	10	1/2"	7'-9"
V9	10	1/2"	6'-3"
H1	42	1/2"	14'-9"
H2	40	1/2"	14'-0"
H3	12	1/2"	6'-0"
K	12	3/4"	9'-9"
M	92	1/2"	6'-0"
M1	74	1/2"	2'-6"
L1	30	1/2"	2'-9"
L2	40	1/2"	7'-9"
Z1	30	1/2"	7'-0"
W1	16	1/2"	21'-0"
W2	28	1/2"	10'-0"
D	64	1/2"	5'-6"

Class I Concrete - Cures 7/5  
 Reinforcing Steel - Libs 2000  
 Rock Excavation - Cures 13.0  
 Removal of Old Bridge - Pa 1

DETAIL OF BRIDGE SEAT

COMPUTED	RR Patterson	EXAMINED	
CHECKED		PASSED	
DRAWN	RRP	APPROVED	
CHECKED			
SPECIAL ASSEMBLED			
CHECKED			



CURVE DATA  
 Δ = 74°-41'  
 D = 3°-00'  
 E = 1710.00'  
 F = 246.1'  
 L = 487.8'  
 S = 0.03/ft

Use Class Concrete throughout  
 Reinforcement bars shall be placed and  
 fastened according to Art. 43.5 of the S.D. Spec.

LOCATION SKETCH

S.A. ROUTE 9 - SEC. 12-B M.P.T  
 ROCK ISLAND COUNTY  
 STA. 408+35

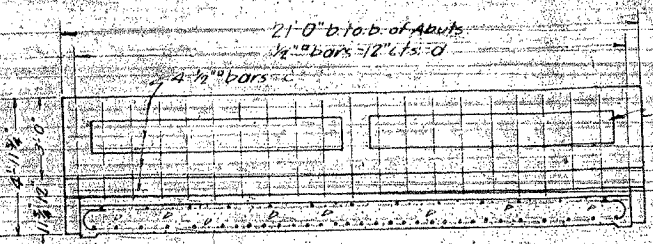
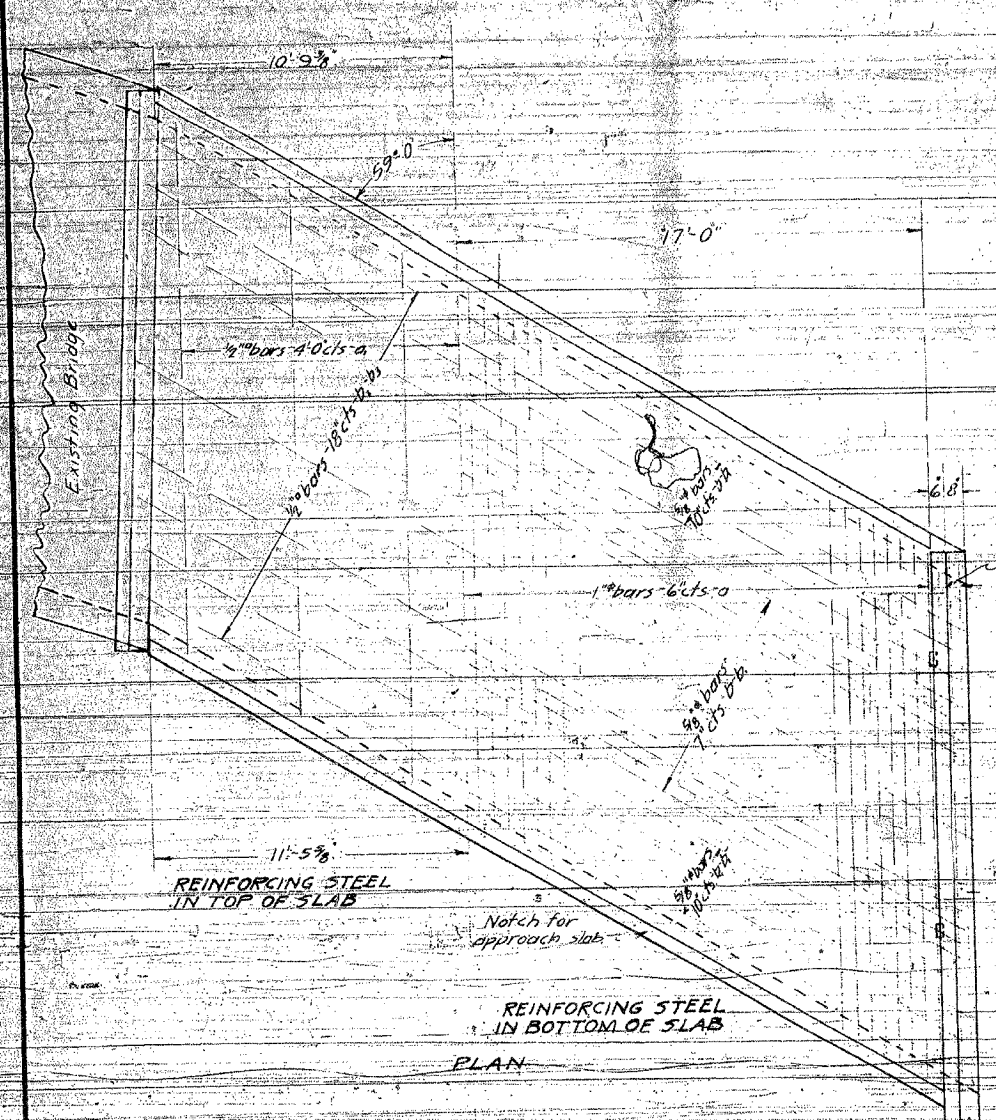
STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

SHEET NO. 2 SHEETS

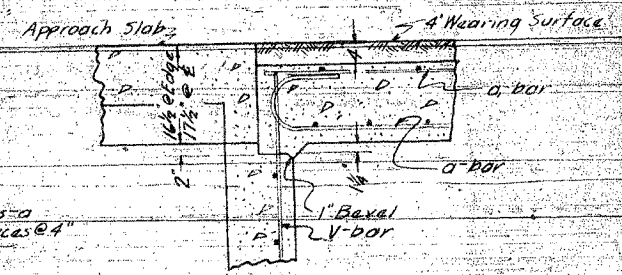
FAP NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-BR & 42MFT-T	ROCK ISLAND	90	48

STA. TO STA.

EXISTING CONDITIONS:  
CONTRACT 64641  
FOR INFORMATION ONLY



LONGITUDINAL SECTION



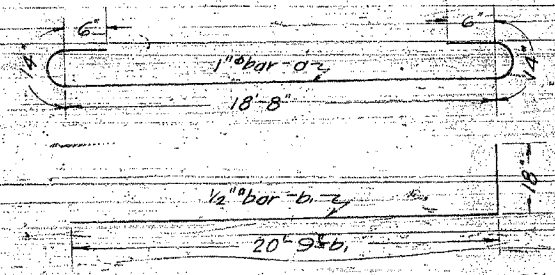
DETAIL OF APPROACH SLAB

SUPERSTRUCTURE  
BILL OF MATERIAL

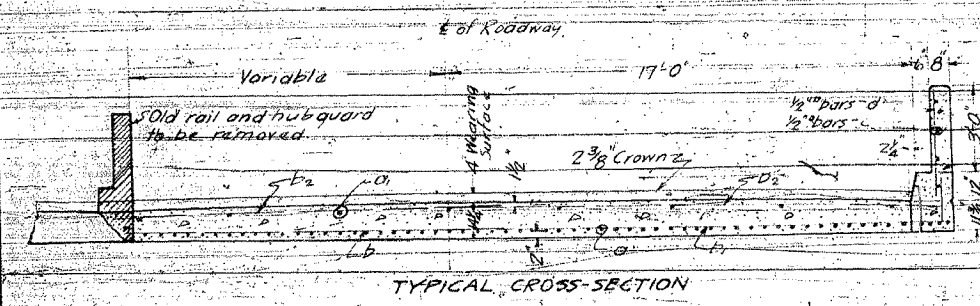
Bar	No.	Size	Length
a	60	1"Ø	27'-0"
a	7	3/4"Ø	19'-3"
b	27	3/8"Ø	21'-0"
b	27	1/4"Ø	13'-0"
b <sub>1</sub>	13	1/4"Ø	21'-0"
b <sub>2</sub>	13	1/4"Ø	13'-0"
c	8	1/2"Ø	20'-6"
d	44	1/2"Ø	17'-3"

Class A Conc. Cu. Yds. 75.3  
Hand Rail Conc. Cu. Yds. 1.6  
Reinforcing Steel lbs 5070  
F.P.C. Pavement Sq Yds 690

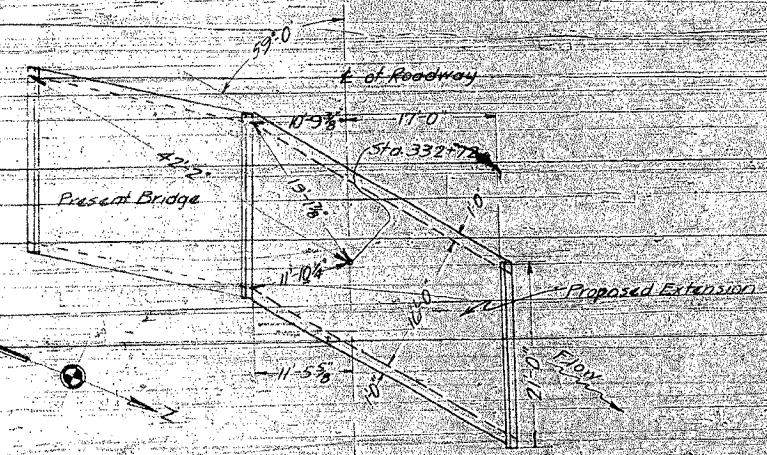
Class A Concrete shall be used throughout. Reinforcing steel shall be placed and fastened according to Article 43.5 5th Specifications. Old reinforcing steel shall be bent into new concrete where possible to tie them together. In joining the old structure with the new structure Article 44.12 of 5th Specifications shall be followed.



DETAIL OF DRAINS



TYPICAL CROSS-SECTION



GENERAL LAYOUT

COMPUTED: <i>M. G. Peter</i>	EXAMINED	APPROVED
CHECKED	PASSED	
DRAWN: <i>M. G. Peter</i>		
CHECKED		
SPECIAL ASSEMBLED		
CHECKED		

BUYER BRIDGE  
S.A.R.T. 9 SEC. 41-B.M.P.T.  
ROCK ISLAND CO.  
STA. 332+72

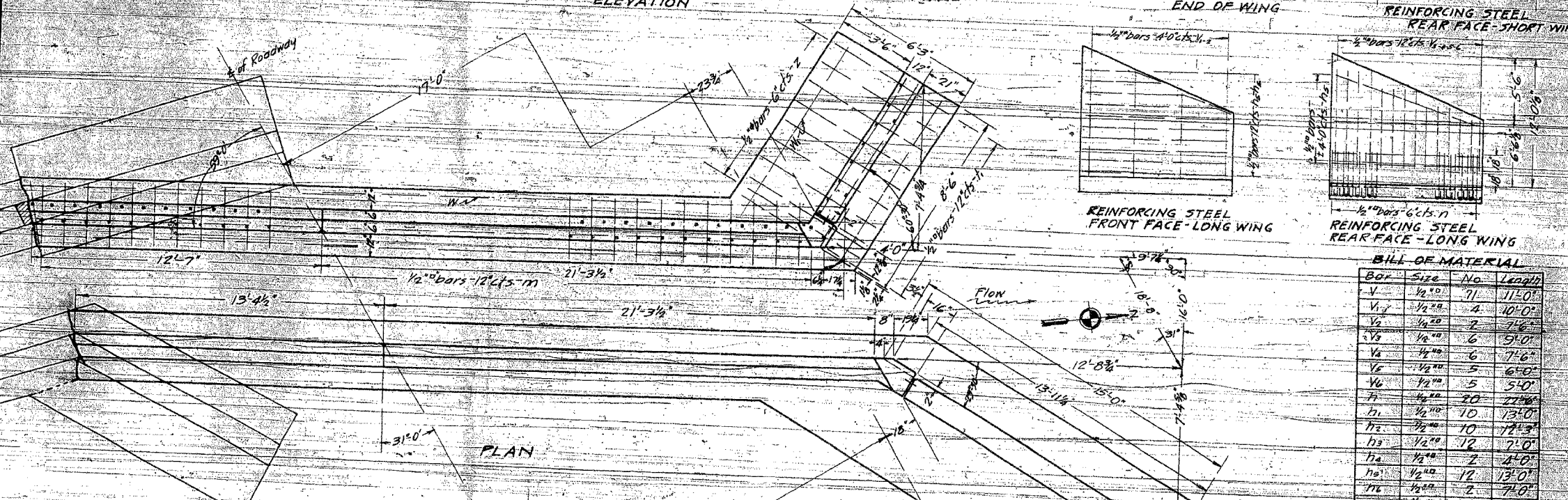
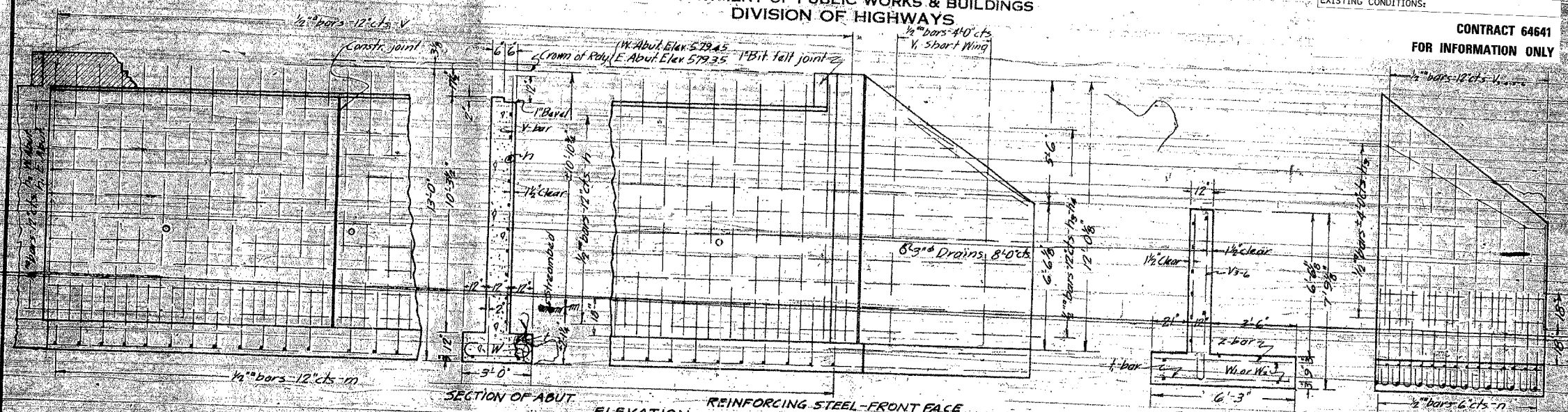


B.M. East end of South H.W. Sta 592+71 Elev 588.61  
 Existing structure K.C. Slab span 18'-2 1/2" roadway 22'-0"  
 to be widened on North side.

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

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
42MFT-BR & 42MFT-T	ROCK ISLAND	90	49

CONTRACT 64641  
 FOR INFORMATION ONLY

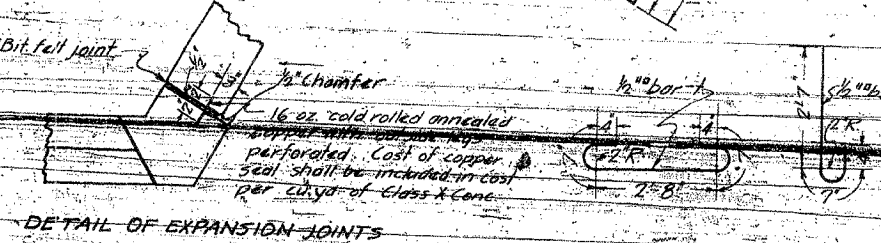


**BILL OF MATERIAL**

Bar	Size	No.	Length
V	1/2"	71	11'-0"
V1	1/2"	4	10'-0"
V2	1/2"	2	7'-6"
V3	1/2"	6	9'-0"
V4	1/2"	6	7'-6"
V5	1/2"	5	6'-0"
V6	1/2"	5	5'-0"
V7	1/2"	20	7'-6"
H1	1/2"	10	13'-0"
H2	1/2"	10	17'-3"
H3	1/2"	12	7'-0"
H4	1/2"	2	4'-0"
H5	1/2"	12	13'-0"
H6	1/2"	2	7'-0"
M	1/2"	11	2'-6"
N	1/2"	44	3'-6"
P	1/2"	12	4'-3"
H	1/2"	23	6'-0"
Z	1/2"	43	6'-0"
W	1/2"	8	19'-3"
W1	1/2"	4	8'-6"
W2	1/2"	4	14'-0"

Class X Concrete shall be used throughout.  
 Reinforcing steel shall be placed and fastened according to Article 43.5 Std. Specifications.  
 Old reinforcing steel shall be bent into new concrete where possible.  
 In joining the old structure with the new structure Article 42.12 of Std. Specifications shall be followed.  
 The North wing of old structure shall be removed.

COMPLETED	1/11 G. Peter	EXAMINED	1936
STANDARD	CHECKED	PASSED	
	DRAWN 1/11 G. Peter	APPROVED	
	CHECKED		
SPECIAL	ASSEMBLED		
	CHECKED		



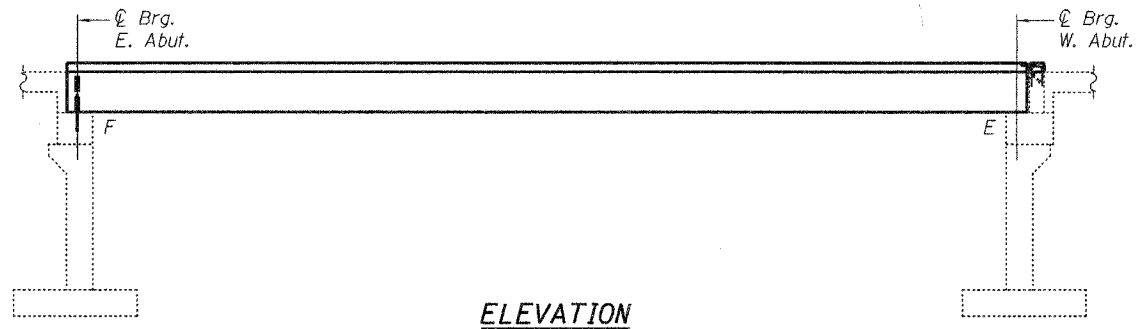
Reinforcing Steel - Lbs. 2370  
 Class X Conc. - Cu. Yds. 54.0  
 Rock Excavation - Cu. Yds. 278

GUYER BRIDGE  
 S.A.R.T. SEC. 41-B.M.F.T.  
 ROCK ISLAND CO.  
 STA. 332+71

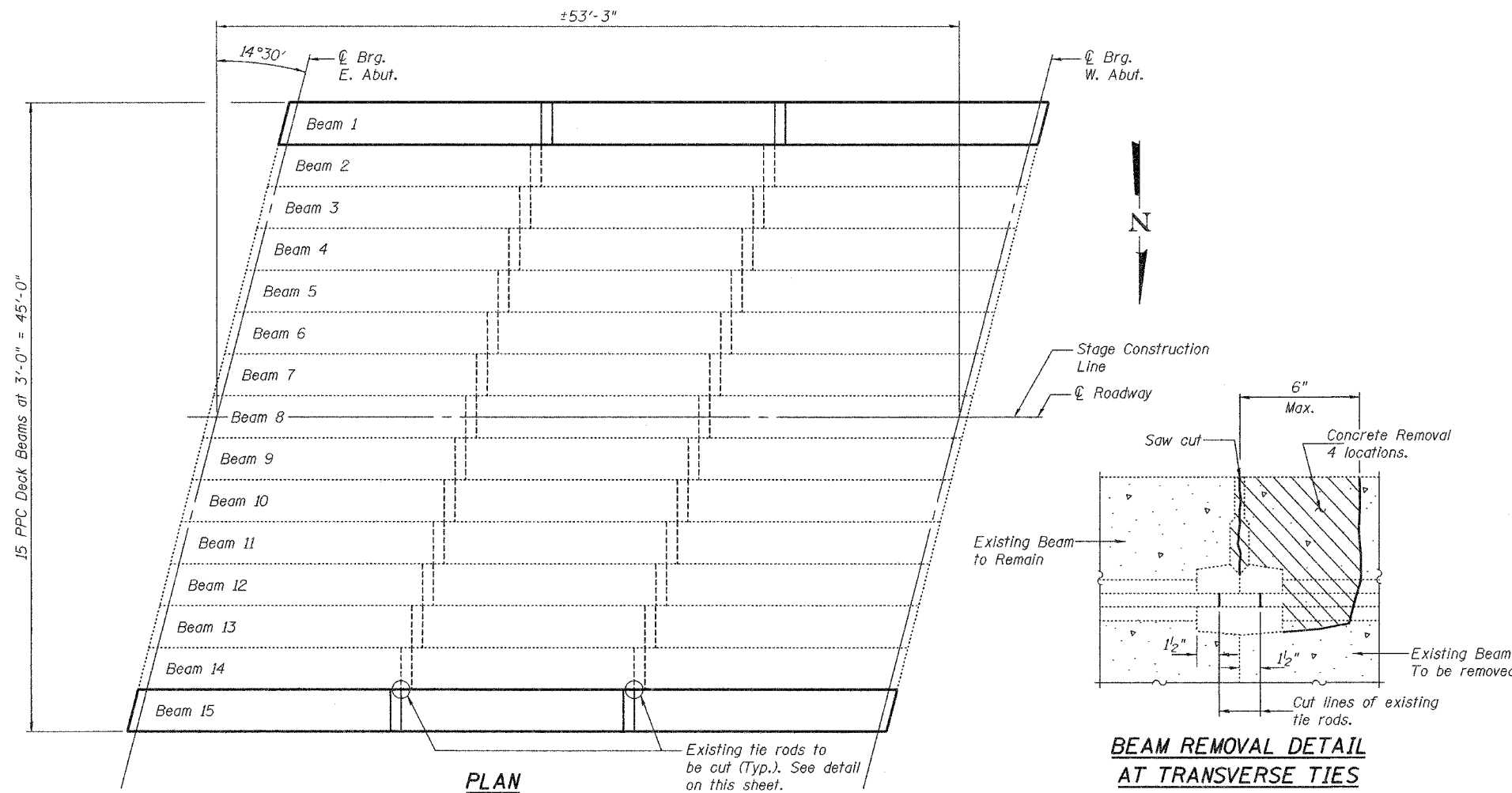
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1
		Rock Island	90	50	5 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-			

Contract Number: 64641

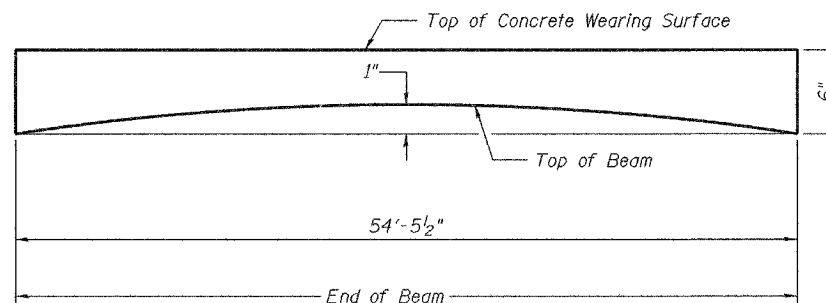


ELEVATION



PLAN

BEAM REMOVAL DETAIL AT TRANSVERSE TIES



ANTICIPATED INITIAL CAMBER DIAGRAM

GENERAL NOTES

Plan dimensions and details relative to existing structure have been taken from existing plans 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 variations 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.

The minimum thickness of the Concrete overlay shall be 5" and varies as required to adjust for the new profile grade and beam camber.

Reinforcement bars shall conform to the requirements of AASHTO M31 or M322, Grade 60.

All construction joints shall be bonded.

Any damage done to the bridge during beam removal shall be repaired by the Contractor. Cost to be included in the cost of "Removal of Existing P.P.C. Deck Beams".

Temporary concrete barrier shall only be anchored into the overlay and not into the P.P.C. Deck Beams.

The cut strands at each beam end shall be given two coats of zinc dust spray or paint meeting the requirements of ASTM A780. The zinc dust spray or paint shall be applied before corrosion appears and allowed to dry according to manufacturer's specifications prior to another coat of zinc. A concrete sealer meeting the requirements of Section 587 of the Standard Specifications shall be applied to the exterior face and 9" in on the underside of each fascia beam. The sealer shall be applied after visible crack growth has subsided. This work shall be performed by the producer and included with the cost of the beam.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Removal of Existing PPC Deck Beams	Sq. Ft.	327
Bituminous Concrete Surface Removal Complete	Sq. Yd.	236
Asbestos Bearing Pad Removal	Each	2
PPC Deck Beams (27" Depth)	Sq. Ft.	327
Reinforcement Bars, Epoxy Coated	Pound	3,530
Steel Bridge Rail, Type SM	Foot	109
Concrete Wearing Surface, 5"	Sq. Yd.	262.0
Bridge Deck Grooving	Sq. Yd.	256.4
Silicone Joint Sealer, 1 3/4"	Foot	47
Polymer Concrete	Cu. Ft.	3.4
Bar Splicers	Each	57
* Keyway Repair	Foot	654
Bearing Pad Adjustment	Each	26
Dowel Repair	Each	26
Protective Coat	Sq. Yd.	266

\* Quantity shown is for the full length of all existing keyways. Actual locations to be repaired will be determined by the Engineer after removal of the existing wearing surface and waterproofing membrane.

DESIGN STRESSES  
PRESTRESS UNITS

f'c = 5,000 psi  
f'ci = 4,000 psi  
f's = 270,000 psi (1/2" φ low lax strands)  
f'si = 201,960 psi (1/2" φ low lax strands)

PLAN AND ELEVATION  
IL 92  
ROCK ISLAND COUNTY  
SN 081-0076

DESIGNED Victor H. Veitz  
CHECKED Mike J. Tuello  
DRAWN [Signature]  
CHECKED VHV

September 23, 2005  
EXAMINED John A. Morris  
ENGINEER OF STRUCTURAL SERVICES  
PASSED Robert C. Anderson  
ENGINEER OF BRIDGES AND STRUCTURES



Expires: November 30, 2006

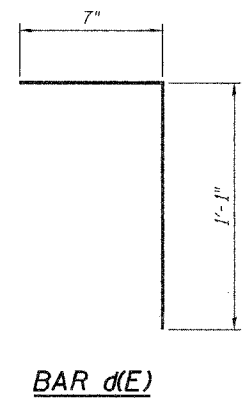
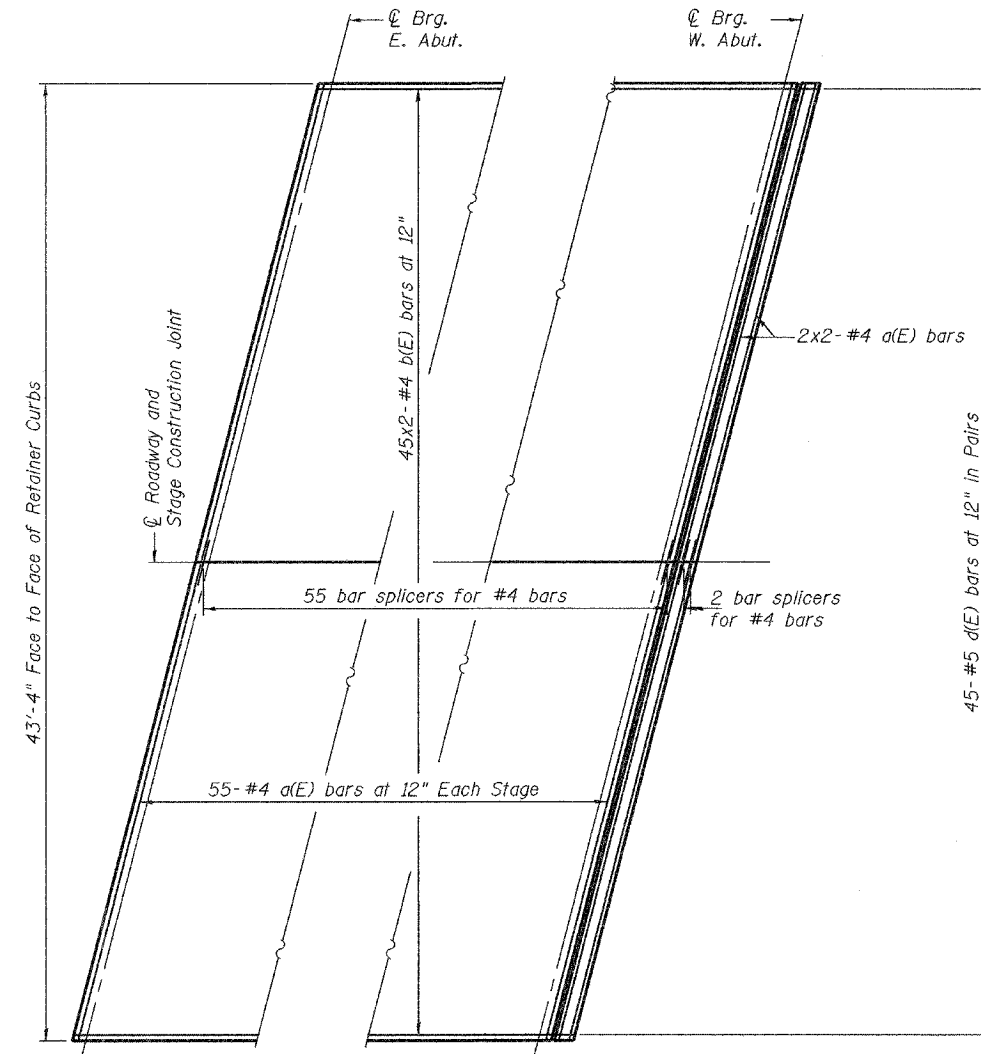
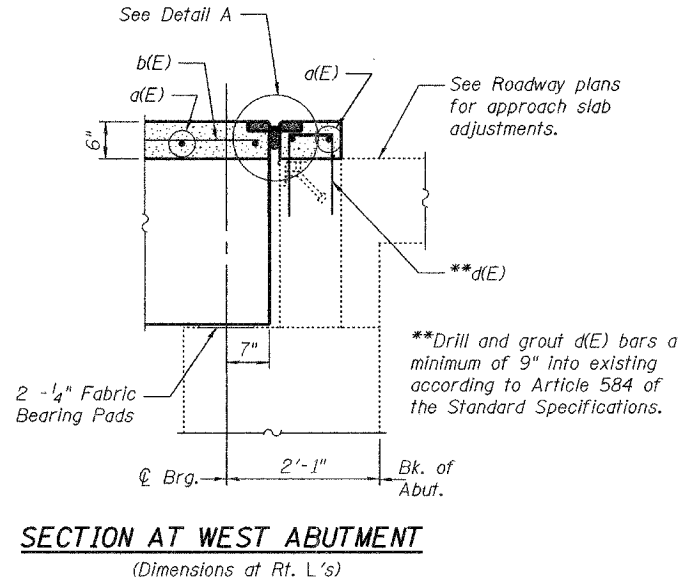
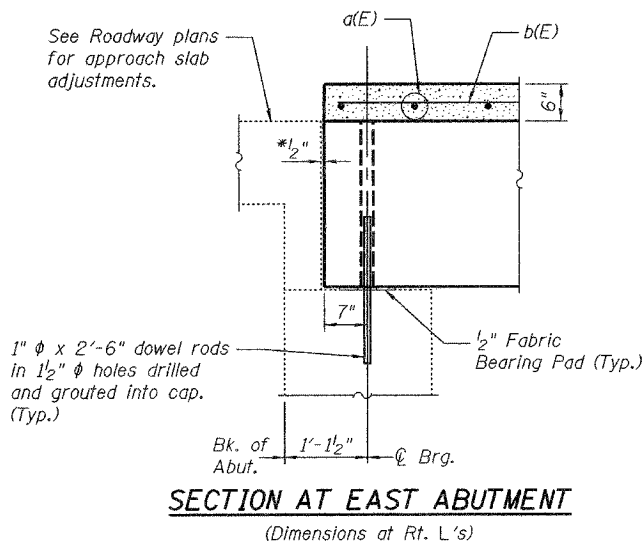
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	LENGTH	SHEET	SHEET NO. 2 5 SHEETS
		Rock Island	90	S1	
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT-	

Contract Number: 64641

Note:  
After beams have been erected, holes shall be drilled into substructure and anchor dowels placed 1'-3" minimum into existing caps. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure a minimum of 24 hours prior to grouting the shear keys.

\*Joint shall be filled with non-shrink grout. This dimension may vary plus or minus to accommodate tolerance in beam lengths.

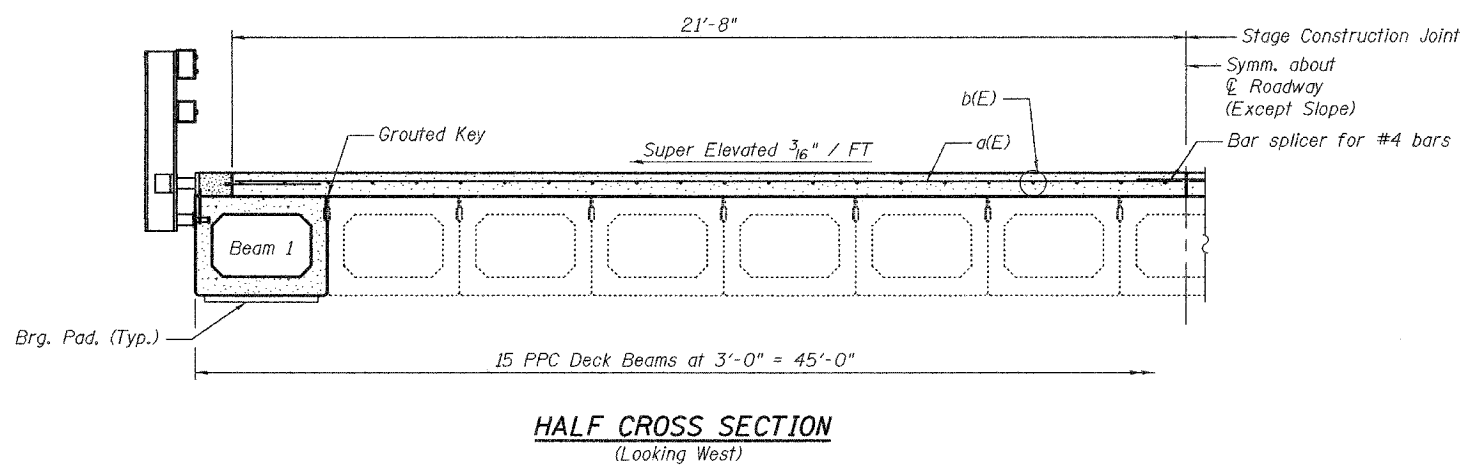
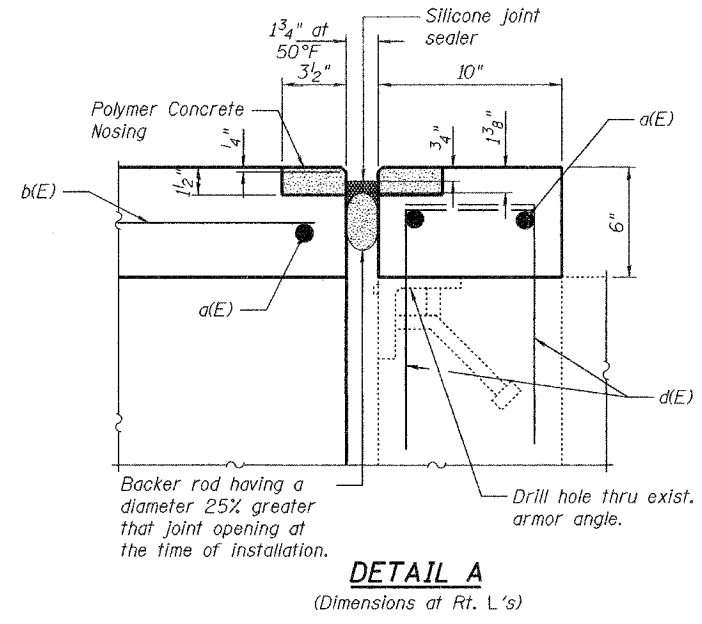


**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	114	#4	22'-3"	—
b(E)	90	#4	27'-11"	—
d(E)	90	#5	1'-8"	L
Reinforcement Bars, Epoxy Coated			Lbs.	3,530

Reinforcement bars designated (E) shall be epoxy coated.  
Bars indicated thus 1 x 2-#5 etc. indicates 1 line of bars with 2 lengths per line.

**MIN BAR LAP**  
#4 = 1'-4"



DESIGNED	V.H.V.	September 23, 2005
CHECKED	M.J.T.	EXAMINED <i>John A. Morris</i> ENGINEER OF STRUCTURAL SERVICES
DRAWN	Drew Christopher	PASSED <i>Ralph E. Anderson</i> ENGINEER OF BRIDGES AND STRUCTURES
CHECKED	V.H.V. M.J.T.	

**OVERLAY AND JOINT DETAILS**  
IL 92  
ROCK ISLAND COUNTY  
SN 081-0076



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	POSTS	SHEET NO.	SHEET NO. 4 5 SHEETS
		Rock Island	90	53	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-		

Contract Number: 64641

3/8" x 2 1/2" x 1'-8"  
Top & Bottom

3/8" x 2 1/2" x 1'-8"  
Top & Bottom

3/8" x 4 7/8" x 1'-8"  
Each Side

3/8" x 6 7/8" x 1'-8"  
Each Side

5/8" x 1 3/4" Cap Screw  
with flat washer

5/8" x 1 3/4" Cap Screw  
with flat washer

3/4" Holes in  
tubing

3/4" Holes in  
tubing

3/16" Typ.

Locknut

Locknut

Locknut

Locknut

Locknut

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Locknut

Contract Number: 64641

3/8" x 2 1/2" x 1'-8"  
Top & Bottom

3/8" x 2 1/2" x 1'-8"  
Top & Bottom

3/8" x 4 7/8" x 1'-8"  
Each Side

3/8" x 6 7/8" x 1'-8"  
Each Side

5/8" x 1 3/4" Cap Screw  
with flat washer

5/8" x 1 3/4" Cap Screw  
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3/4" Holes in  
tubing

3/4" Holes in  
tubing

3/16" Typ.

Locknut

Locknut

Locknut

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SECTIONS AT RAIL SPLICE

NOTES

Hollow structural sections shall conform to the requirements of ASTM designation A 500 Grade B Structural Steel Tubing and shall meet the longitudinal CVN requirements of 15 ft-lbs at 0° F.

All other steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36 except posts and angles shall conform to AASHTO M 270, Grade 50.

Bolts, cap screws, and nuts shall conform to the requirements of ASTM designation A 307 except for high strength bolts, nuts and washers noted which shall conform to AASHTO M 164.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized according to AASHTO M 232.

All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM A 385. Galvanized rail shall not be painted.

Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot for Steel Bridge Rail, Type SM.

All field drilled holes shall be coated with an approved zinc rich paint before erection.

For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Bridge Rail, Type SM.

The 1/2" x 7" x 6" plates that come in contact with concrete shall receive two coats of asphalt paint conforming to Section 1060.07 Type II or place 1/8" fabric bearing pads between the plates and concrete.

The 3/4" high strength bolts used to connect the 6 x 4 x 3/4 angles to the post shall be tightened according to Article 505.04(f)(2) of the Standard Specifications. The 1" high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional 1/2 turn. The 5/8" cap screws in bottom of posts shall be tightened to a snug fit only.

East End of Rail and Beam 1'-4 1/4" 9 Rail Post spaces at 5'-9" = 51'-9" West End of Rail and Beam

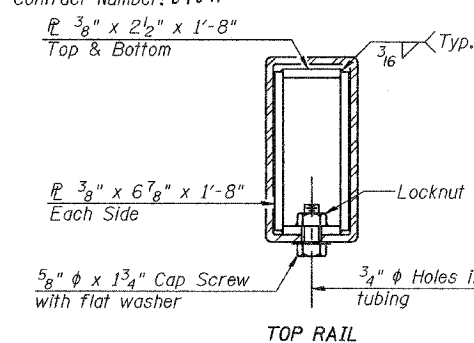
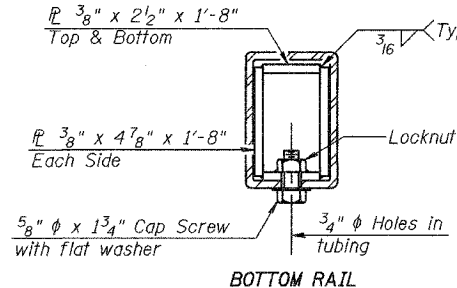
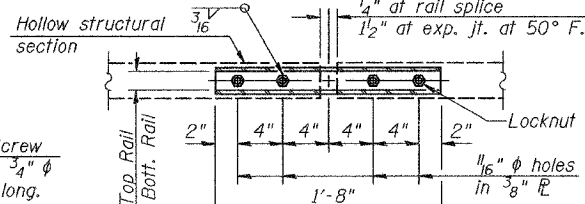
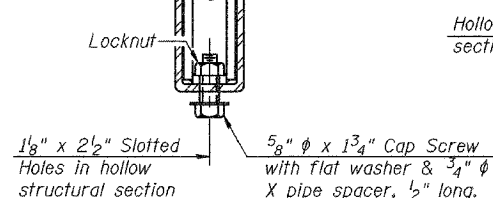
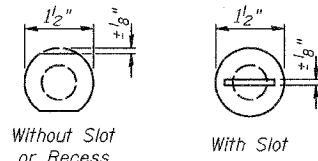
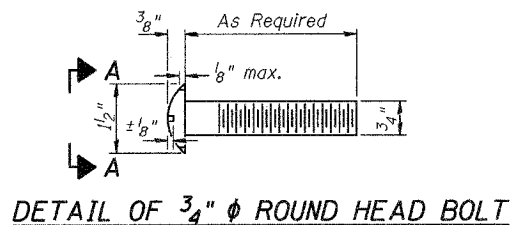
RAIL POST SPACING

BILL OF MATERIAL

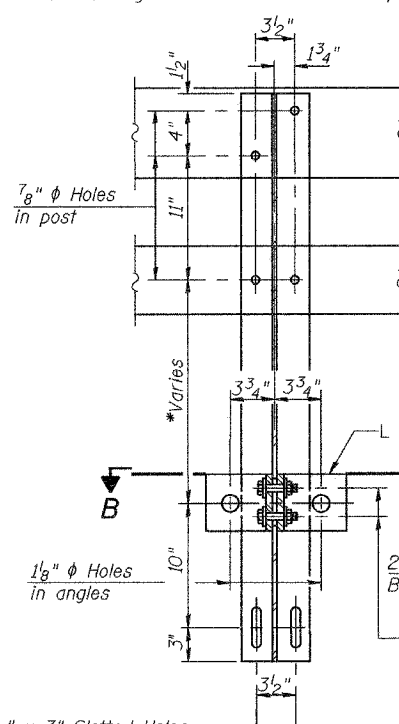
Item	Unit	Quantity
Steel Bridge Rail, Type SM	Foot	109

RAIL DETAILS

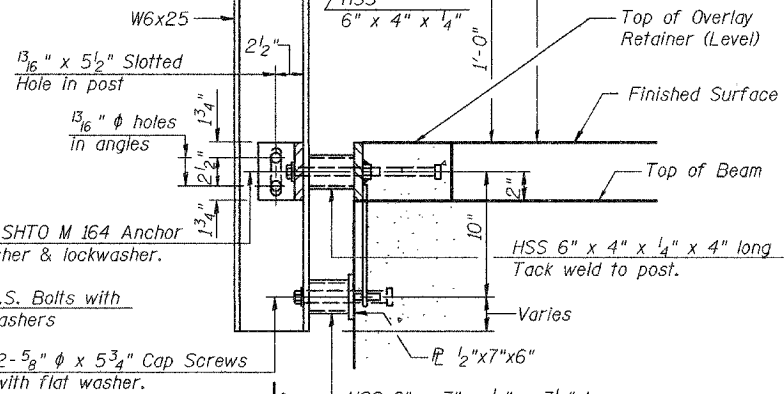
IL 92  
ROCK ISLAND COUNTY  
SN 081-0076



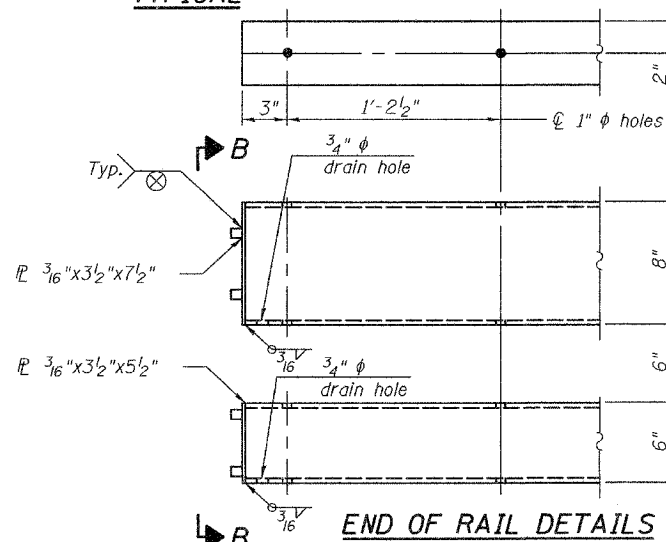
\*1'-6" min at midspan. Dimension is based on a 5" wearing surface thickness at midspan.



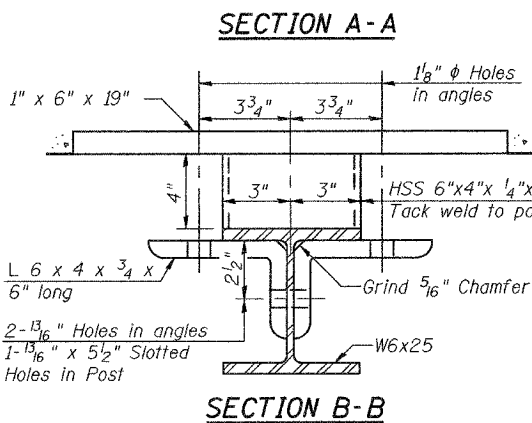
4-3/4" x 6" Round Head Bolts (With slot or approved recess in head) with locknut & flat washer. 7/8" Holes in hollow structural section may be drilled in the field.



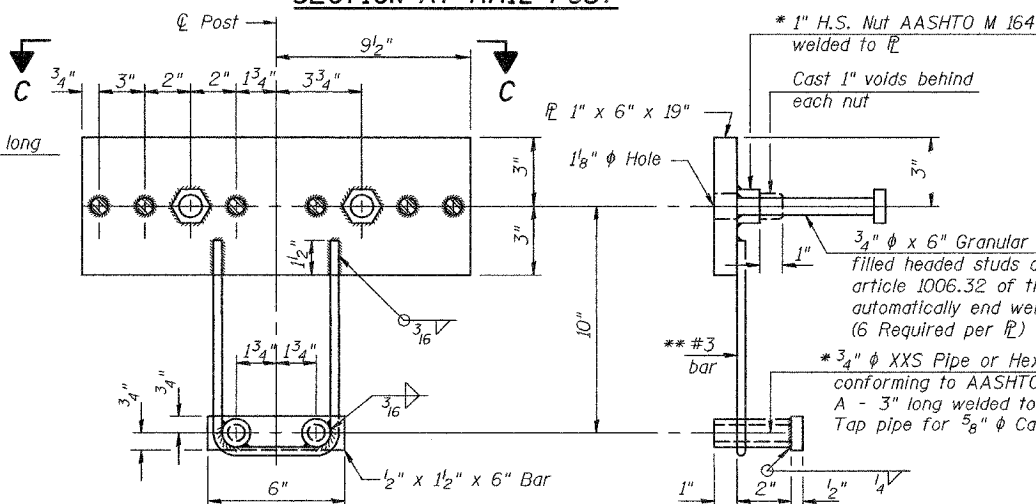
SECTION AT RAIL POST



END OF RAIL DETAILS



SECTION B-B



ANCHOR DEVICE

\*1" H.S. Nut AASHTO M 164 welded to P. Cast 1" voids behind each nut.

3/4" x 6" Granular or solid flux filled headed studs conforming to article 1006.32 of the Std. Specs. automatically end welded. (6 Required per P)

\*3/4" XXS Pipe or Hex Coupler Nuts conforming to AASHTO M291, Grade A - 3" long welded to #3 bar and Tap pipe for 5/8" Cap Screw.

DESIGNED	V.H.V.
CHECKED	M.J.T.
DRAWN	Drew Christopher
CHECKED	V.H.V. M.J.T.

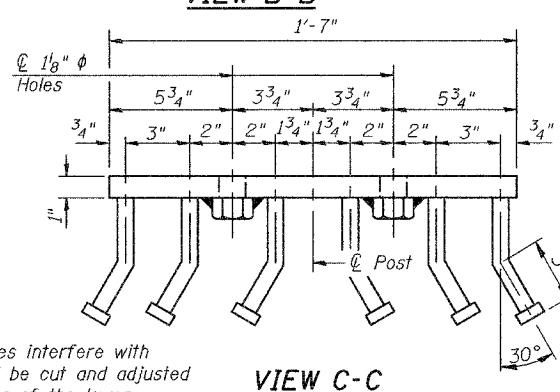
September 23, 2005
EXAMINED John A. Morris
PASSED Ralph E. Anderson

\* Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.

\*\* Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 1/2".

(6'-3" Max Post Spacing)

VIEW C-C



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		Rock Island	90	54
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 5

5 SHEETS

Contract Number: 64641

**NOTES**

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.  
Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.  
All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.  
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.  
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

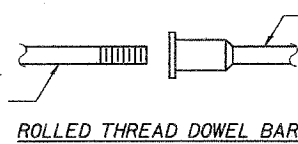
- ① Minimum Capacity =  $1.25 \times f_y \times A_t$   
(Tension in kips)
- ② Minimum \*Pull-out Strength =  $1.25 \times f_{s_{allow}} \times A_t$   
(Tension in kips)

Where  $f_y$  = Yield strength of lapped reinforcement bars in ksi.  
 $f_{s_{allow}}$  = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)  
 $A_t$  = Tensile stress area of lapped reinforcement bars.  
\* = 28 day concrete

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	5.9
#5	2'-0"	23.0	9.2
#6	2'-7"	33.1	13.3
#7	3'-5"	45.1	18.0
#8	4'-6"	58.9	23.6
#9	5'-9"	75.0	30.0
#10	7'-3"	95.0	38.0
#11	9'-0"	117.4	46.8

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."

The diameter of this part is the same as the diameter of the bar spliced.



ROLLED THREAD DOWEL BAR



\*\* ONE PIECE

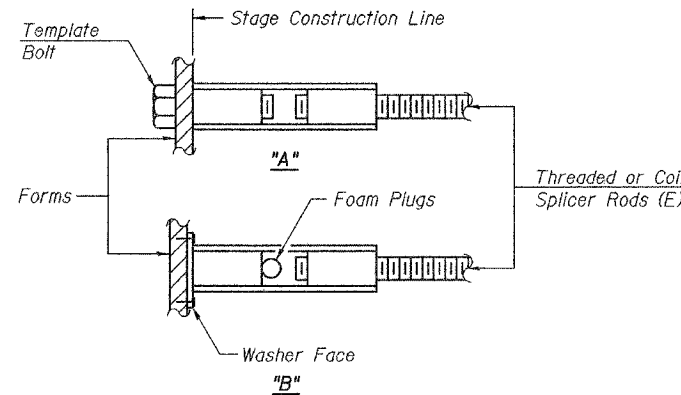
Wire Connector



WELDED SECTIONS

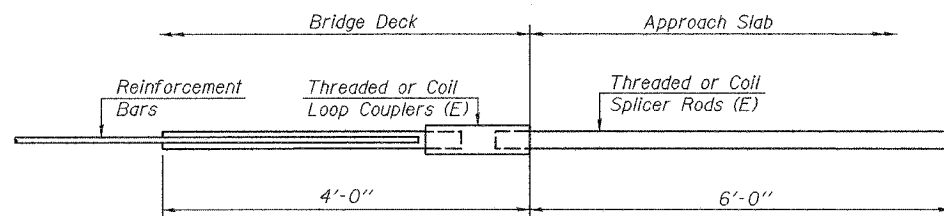
**BAR SPLICER ASSEMBLY ALTERNATIVES**

\*\* Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



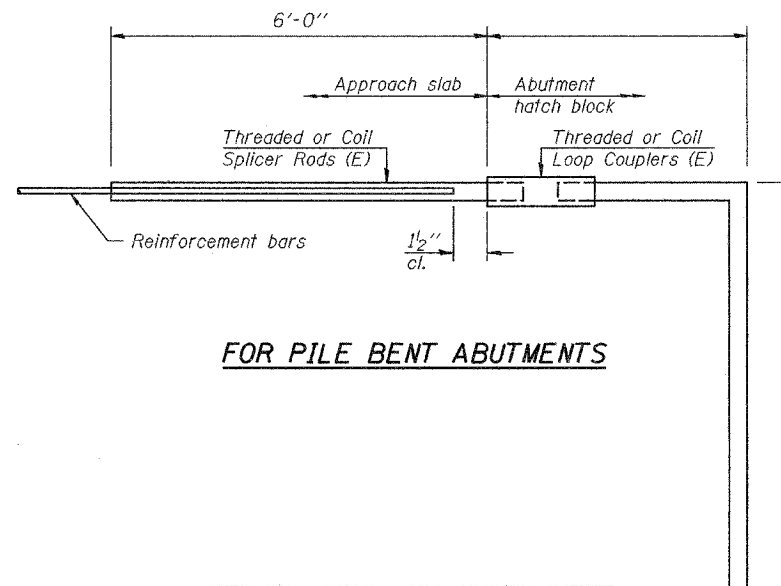
**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.  
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.  
(E) : Indicates epoxy coating.



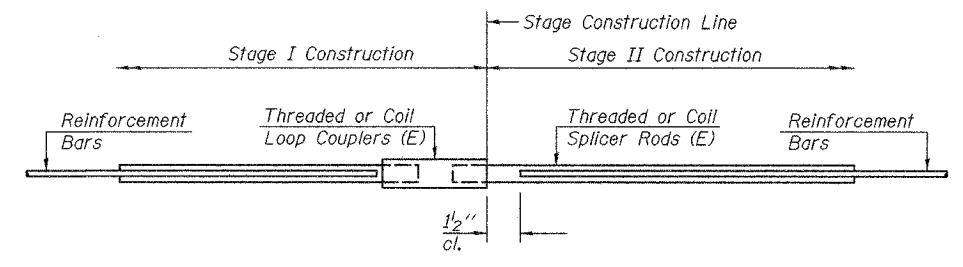
**FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS**

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required =



**FOR PILE BENT ABUTMENTS**

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required =



**STANDARD**

Bar Size	No. Assemblies Required	Location
#4	57	Deck

DESIGNED	V.H.V.
CHECKED	M.J.T.
DRAWN	Drew Christopher
CHECKED	V.H.V. M.J.T.

September 23, 2005  
EXAMINED *John A. Morris*  
ENGINEER OF STRUCTURAL SERVICES  
PASSED *Ralph E. Anderson*  
ENGINEER OF BRIDGES AND STRUCTURES

BSD-1 10-22-04

BAR SPLICER DETAILS  
IL 92  
ROCK ISLAND COUNTY  
SN 081-0076

# STORM WATER POLLUTION PREVENTION PLAN EROSION CONTROL PLAN

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	*	ROCK ISLAND	90	55
STA. 404+30 & 328+50		TO STA. 411+46 +& 336+10		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

\* 42MFT-BR, (9BR-2)M & 42MFT-T

THE FOLLOWING PLAN WAS ESTABLISHED AND INCLUDED IN THESE PLANS TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES.

THE PURPOSE OF THIS PLAN IS TO MINIMIZE SILTATION WITHIN THE CONSTRUCTION ZONE AND TO ELIMINATE SEDIMENTS FROM ENTERING AND LEAVING THE CONSTRUCTION ZONE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME.

CERTAIN ITEMS, AS SHOWN IN THIS PLAN AND REFERENCED BY THE LEGEND, SHALL BE PLACED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE PLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE SITUATION RESULTING FROM THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL PLACE PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A REASONABLE AMOUNT OF TIME; THEREFORE, REDUCING THE AMOUNT OF AREA BEING OPEN TO THE POSSIBILITY OF EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING. THE RESIDENT ENGINEER WILL DETERMINE IF TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED, THE SIZE OF THE PROPOSED DITCH CHECKS, THE PROPER METHOD OF INSTALLATION, AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS SHALL BE ADDED WHICH ARE NOT INCLUDED IN THE PLANS. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN STANDARD 280001 OF THE PLANS.

## SITE DESCRIPTION

### DESCRIPTION OF CONSTRUCTION ACTIVITY:

THIS PROJECT CONSISTS OF REMOVAL AND REPLACEMENT OF A SINGLE SPAN CONCRETE TEE BEAM BRIDGE WITH A 3-SIDED PRECAST CONCRETE STRUCTURE, THE REMOVAL AND REPLACEMENT OF A SINGLE SPAN SLAB BRIDGE WITH A CAST-IN-PLACE BOX CULVERT AND THE BRIDGE DECK REMOVAL AND REPLACEMENT. WORK ALSO INCLUDES EARTHWORK, PAVEMENT REMOVAL, FULL-DEPTH BITUMINOUS PAVEMENT, BITUMINOUS BASE & SURFACE COURSES, PAVEMENT MARKINGS, LANDSCAPING & OTHER MISCELLANEOUS TASKS.

### DESCRIPTION OF INTENDED SEQUENCE OF ACTIVITIES:

THE SEQUENCE OF EVENTS ARE AS FOLLOW: CLEARING, EMBANKMENT, EXCAVATION, GRADING AND PAVING. THIS PROJECT WILL BE CONSTRUCTED IN SEGMENTS AS SHOWN IN THE "STAGING PLANS".

TOTAL CONSTRUCTION SITE (CONSTRUCTION LIMIT TO CONSTRUCTION LIMIT) 3.74 ACRES

PROPOSED R.O.W (TOTAL PARCEL AREA) 4.28 ACRES

DISTURBED BY EXCAVATION (E.O.P TO CONSTRUCTION LIMIT) 2.30 ACRES

## SUPPORTING REPORTS AND PLANS

THE FOLLOWING ASSISTED IN DEVELOPING THE EROSION CONTROL PLAN AS REFERENCED DOCUMENTS:

SOIL PROFILE SHEETS, SOILS REPORTS, BORING LOGS  
USGS DRAINAGE MAPS, PROJECT PLAN DOCUMENTS

DRAINAGE TRIBUTARIES RECEIVING WATER FROM CONSTRUCTION SITE

**THREE UNNAMED DRAINAGE DITCHES UNDER FAPS 599 (IL 92): 1. AT THE EAST EDGE OF THE**

**VILLAGE LIMITS OF ANDALUSIA. 2. APPROXIMATELY 1.5 MILES EAST OF ANDALUSIA;**

**AND FANCY CREEK APPROXIMATELY 0.5 MILES EAST OF ANDALUSIA.**

EROSION CONTROLS AND SEDIMENT CONTROL PROCEDURES

STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION:

PERIMETER EROSION CONTROL SHALL BE PLACED PRIOR TO BEGINNING EARTHWORK.

STABILIZATION PRACTICES DURING CONSTRUCTION:

AS EARTH EXCAVATION AND EMBANKMENT ARE BEING COMPLETED THE CONTRACTOR SHALL PLACE DITCH CHECKS, INLET AND PIPE PROTECTION, EROSION CONTROL BLANKET, AND SEEDING AS STAGES OF THE PROJECT ARE COMPLETED. PERIMETER EROSION BARRIER WILL BE INSTALLED AT ADDITIONAL LOCATIONS AS THE PROJECT PROGRESSES. SEEDING SHALL BE COMPLETED AS SPECIFIED IN THE EROSION CONTROL/ SEEDING MOBILIZATION AND TEMPORARY SEEDING SPECIAL PROVISION.

MAINTENANCE AFTER FINAL GRADING

TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS SEEDED AND ESTABLISHED WITH THE PROPER STAND. ONCE PERMANENT EROSION CONTROL SYSTEMS AS PROPOSED IN THE PLANS ARE FUNCTIONAL AND ESTABLISHED, TEMPORARY ITEMS SHALL BE REMOVED, CLEANED UP AND DISTURBED TURF RESEDED.

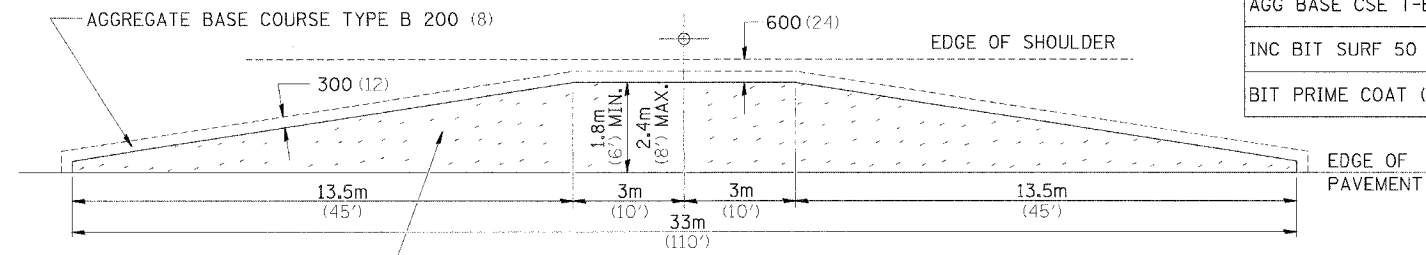
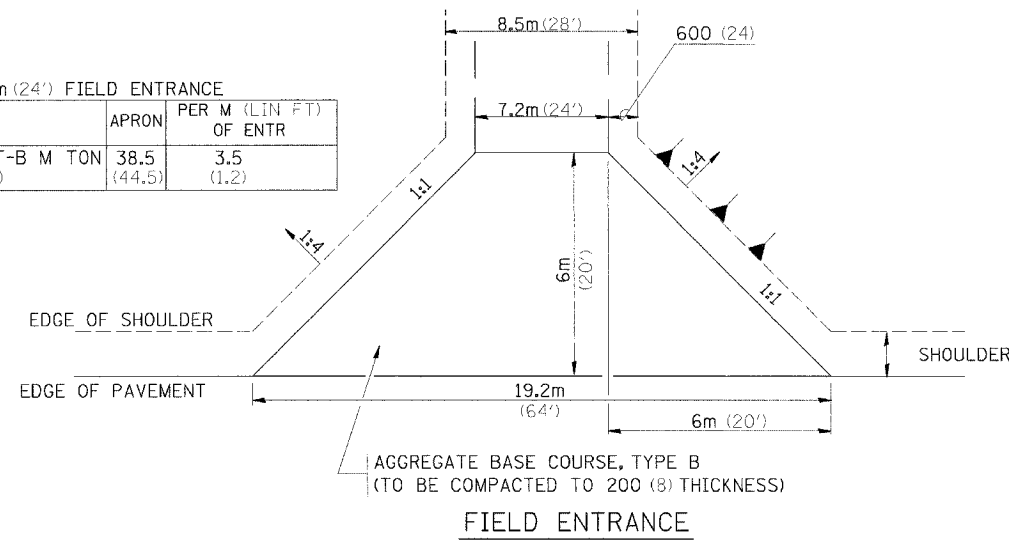
REVISED 5-12-04 2.1

# BITUMINOUS APPROACHES & MAILBOX RETURNS

F.A.P. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
699	42MFT-BR & 42MFT-T	ROCK ISLAND	90	56
STA. 404+30 & 326+50		TO STA. 411+46 +& 336+10		
FED. ROAD DIST. NO. 1		ILLINOIS		

	1.8m (6')	2.4m (8')
AGG BASE CSE T-B (TON)	22.2 (24.5)	28.2 (31.1)
INC BIT SURF 50 (2) (TON)	5.3 (5.8)	7.1 (7.8)
BIT PRIME COAT (TON)	0.05 (0.06)	0.07 (0.08)

7.2m (24') FIELD ENTRANCE		
	APRON	PER M (LIN FT) OF ENTR
AGG BASE CSE T-B M TON (TON)	38.5 (44.5)	3.5 (1.2)

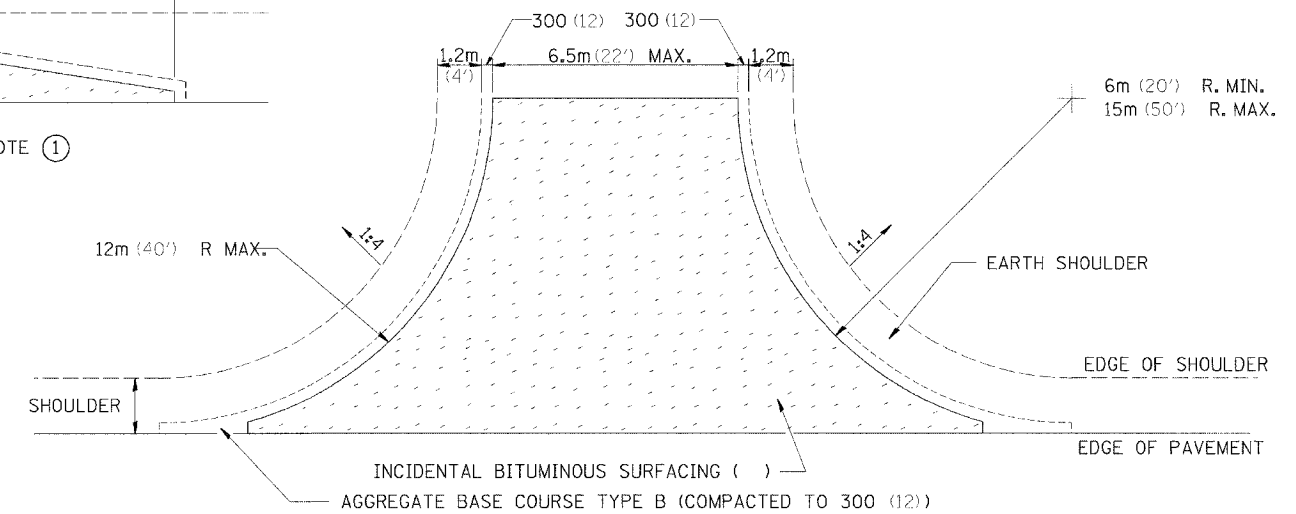
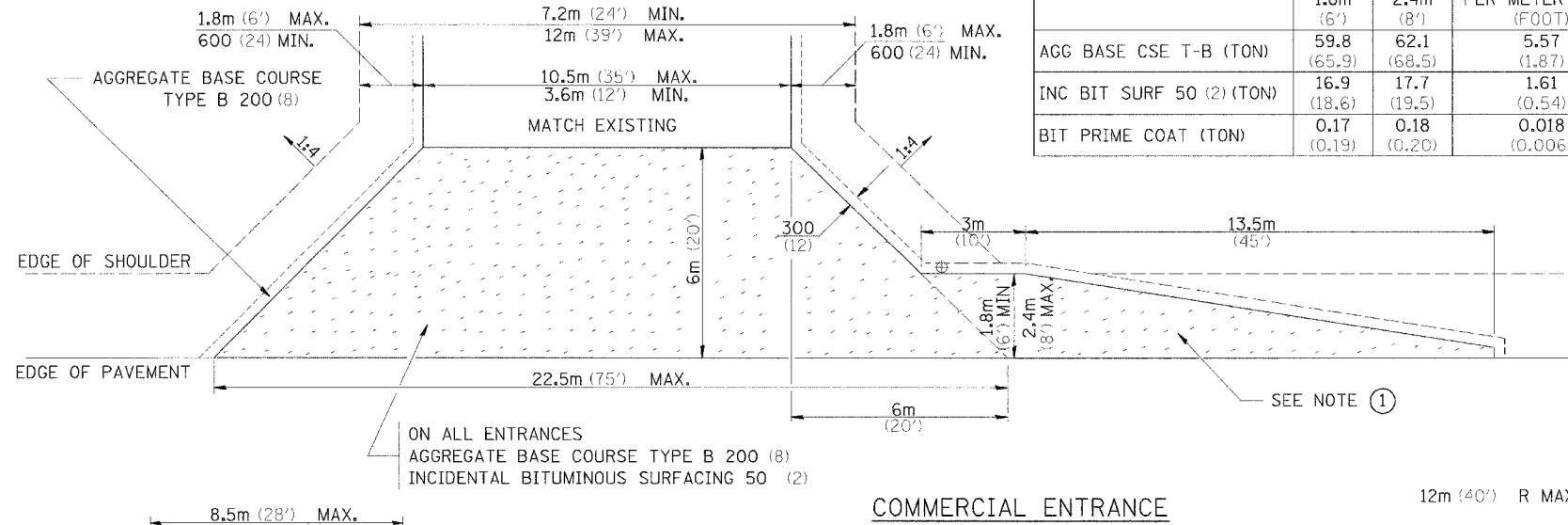


ON ALL ENTRANCES  
AGGREGATE BASE COURSE TYPE B 200 (8)  
INCIDENTAL BITUMINOUS SURFACING 50 (2)

**NOTE**

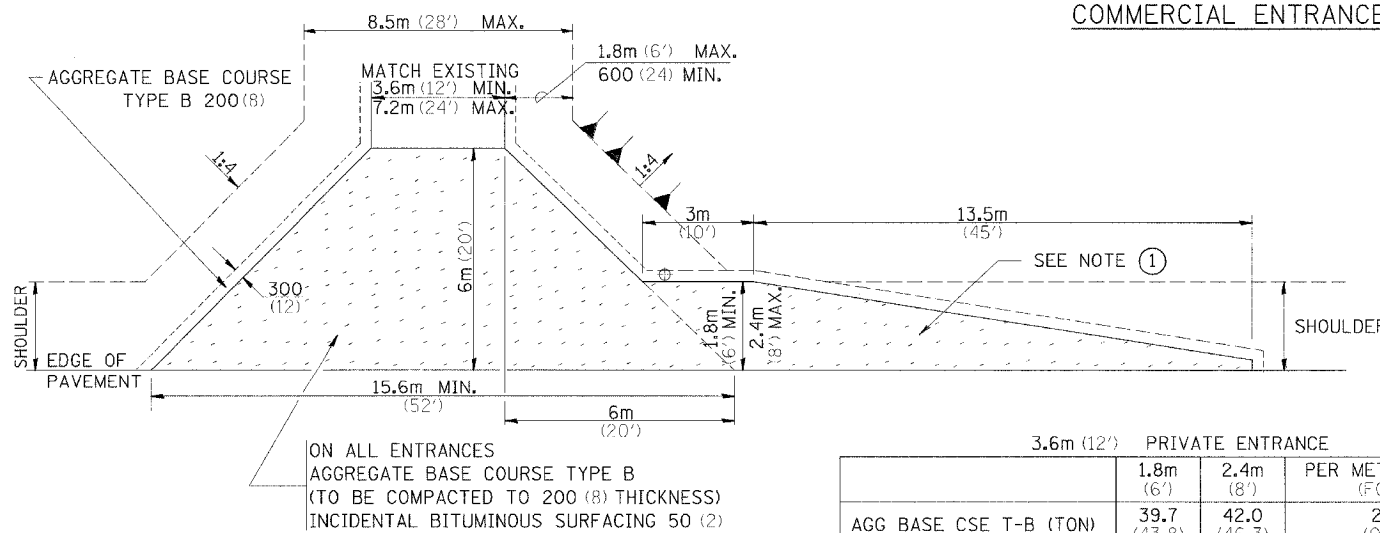
- ① TURNOUTS ARE TO BE CONSTRUCTED ON THE APPROACH SIDE OF ALL PE & CE REGARDLESS IF A MAILBOX IS PRESENT.
- ② ALL PE & CE ARE TO BE SURFACED TO RIGHT OF WAY LINE. AREA BEHIND RIGHT OF WAY SHALL MATCH EXISTING SURFACE.
- ③ FE ARE TO BE AGGREGATE TO RIGHT OF WAY OR TOUCH DOWN, WHICH EVER IS GREATEST.
- ④ QUANTITIES ARE CALCULATED WITH 1' BITUMINOUS SHOULDER IN PLACE. AGGREGATE QUANTITIES SHOWN ARE FOR NEW CONSTRUCTION.
- ⑤ EXCAVATION REQUIRED FOR PLACEMENT OF AGGREGATE BASE COURSE SHALL BE CONSIDERED INCIDENTAL TO THE AGGREGATE BASE COURSE.
- ⑥ ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

10.5m (35') COMMERCIAL ENTRANCE			
	1.8m (6')	2.4m (8')	PER METER ENTR (FOOT)
AGG BASE CSE T-B (TON)	59.8 (65.9)	62.1 (68.5)	5.57 (1.87)
INC BIT SURF 50 (2) (TON)	16.9 (18.6)	17.7 (19.5)	1.61 (0.54)
BIT PRIME COAT (TON)	0.17 (0.19)	0.18 (0.20)	0.018 (0.006)



	6m RADIUS (20')			9m RADIUS (30')			12m RADIUS (40')		
	5.5m (18')	6m (20')	6.5m (22')	5.5m (18')	6m (20')	6.5m (22')	5.5m (18')	6m (20')	6.5m (22')
AGG BASE CSE T-B (TON)	40.9 (45.1)	43.7 (48.2)	46.4 (51.2)	70.3 (77.5)	74.4 (82.0)	78.6 (86.6)	105.5 (116.3)	111.0 (122.4)	116.6 (128.5)
INC BIT SURF AT 25 (1) (TON)	3 (3.3)	3.3 (3.6)	3.4 (3.8)	5.3 (5.8)	5.5 (6.1)	5.9 (6.5)	8.0 (8.8)	8.4 (9.3)	9.0 (9.9)
BIT PRIME COAT (TON)	0.07 (0.08)	0.08 (0.09)	0.10 (0.10)	0.14 (0.15)	0.15 (0.16)	0.15 (0.17)	0.20 (0.22)	0.22 (0.24)	0.23 (0.25)

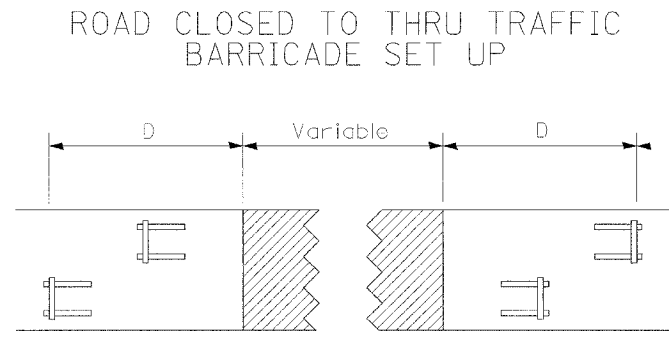
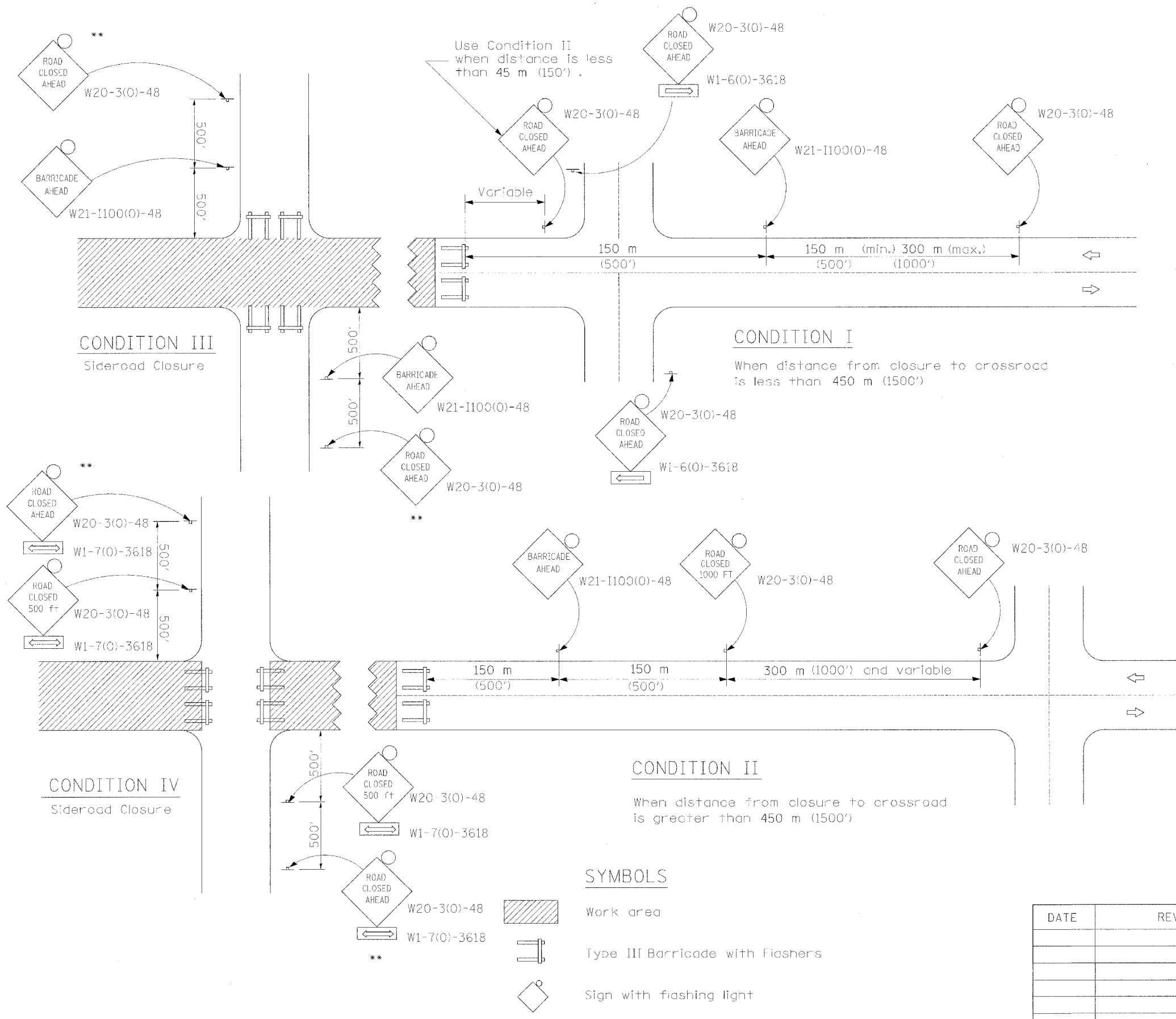
NOTE: USE 50 (2) INC. BIT. SURF. ON EXISTING RETURNS



3.6m (12') PRIVATE ENTRANCE			
	1.8m (6')	2.4m (8')	PER METER ENTR (FOOT)
AGG BASE CSE T-B (TON)	39.7 (43.8)	42.0 (46.3)	2.11 (0.71)
INC BIT SURF 50 (2) (TON)	10.7 (11.8)	11.5 (12.7)	0.57 (0.19)
BIT PRIME COAT (TON)	0.11 (0.12)	0.18 (0.13)	0.006 (0.002)



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-02 + 42MFT-07	Rock Island	90	57
STA. 404+30 & 326+50		TO STA. 411+48 & 336+10		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



Type III Barricades and R11-4-4830 signs shall be as shown in "Road Closed To All Thru Traffic" detail on Highway Standard 702001. If the distance "D" exceeds 600 m (2000') an additional set of barricades and R11-4-4830 shall be placed at each end of the work area.

**GENERAL NOTES**

- \*\* Where local access is to be maintained, barricades are to be set up as shown above in Road Closed to thru traffic.
- Type III Barricades and R11-2-4830 signs shall be as shown in "Road Closed To All Traffic" detail on Highway Standard 702001.
- Longitudinal dimensions may be adjusted to fit field conditions.
- When the distance between the barricade and the intersection is between 450 m (1500') and 600 m (2000'), the advance sign shall be placed at the intersection. When the distance between the barricade and the intersection is over 600 m (2000'), an additional sign shall be placed at the intersection. The additional sign shall give the distance to the barricade in miles or fractions of a mile.
- All dimensions are in millimeters (inches) unless otherwise shown.

**SYMBOLS**

- Work area
- Type III Barricade with Flashers
- Sign with flashing light

DATE	REVISIONS

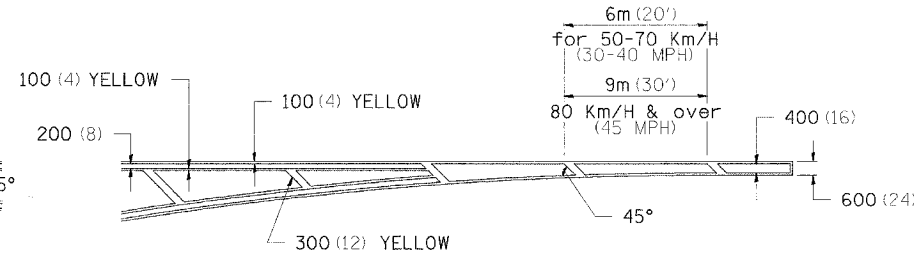
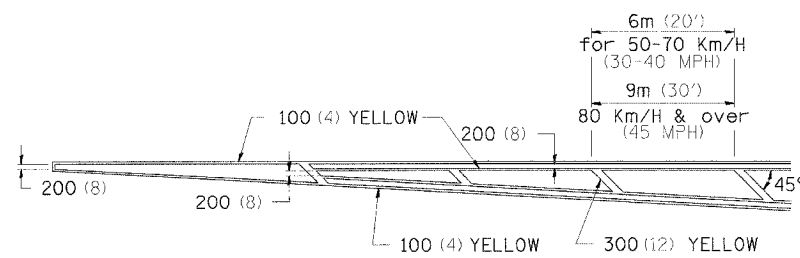
TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR ROAD CLOSURE

**TRAFFIC CONTROL FOR ROAD CLOSURE**

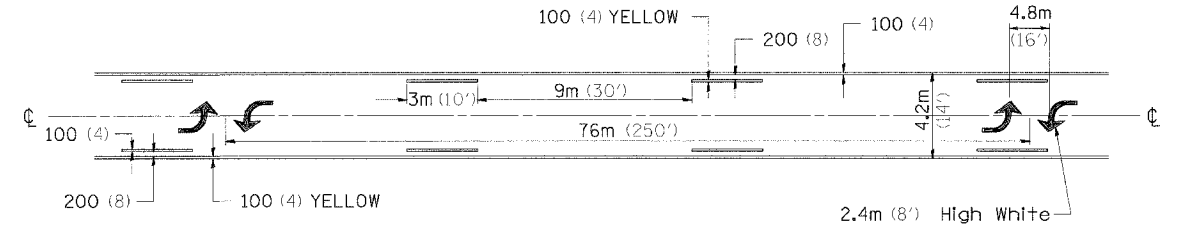
# TYPICAL PAVEMENT MARKINGS

F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-BR & 42MFT-T	ROCK ISLAND	90	58
STA. 404+30 & 326+50		TO STA. 411+46 + & 338+10		
FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT

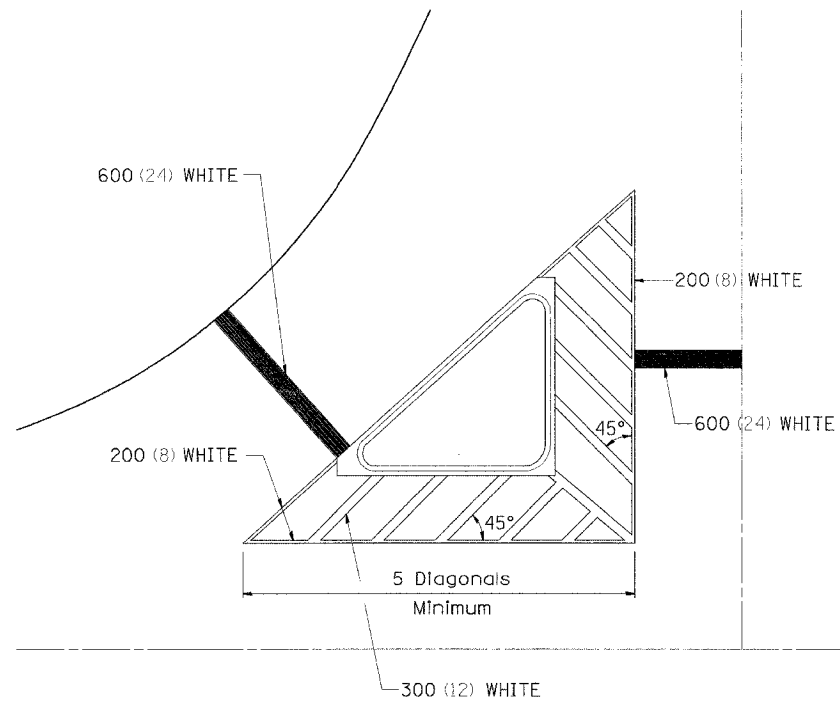
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



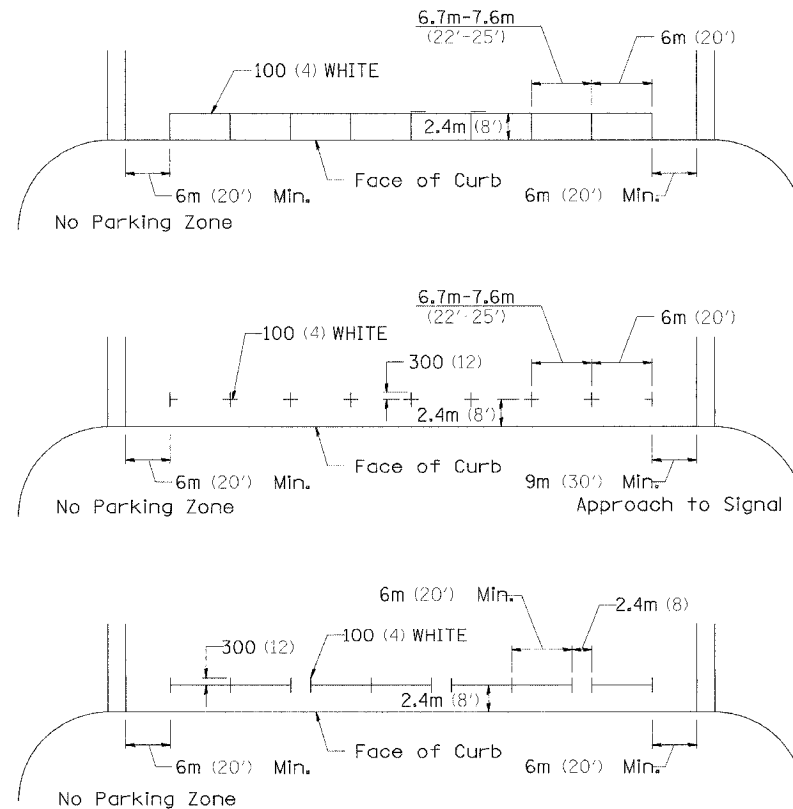
MEDIAN PAVEMENT MARKING



TYPICAL ISLAND OFFSET SHOULDER WIDTH



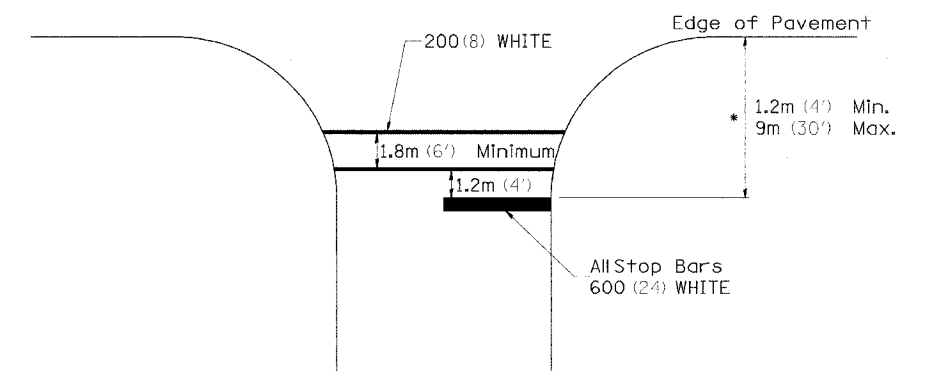
TYPICAL PARKING SPACING



\*\* ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

STANDARD CROSSWALK MARKING

See Schedules for Locations



\* Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

CHECKED BY:

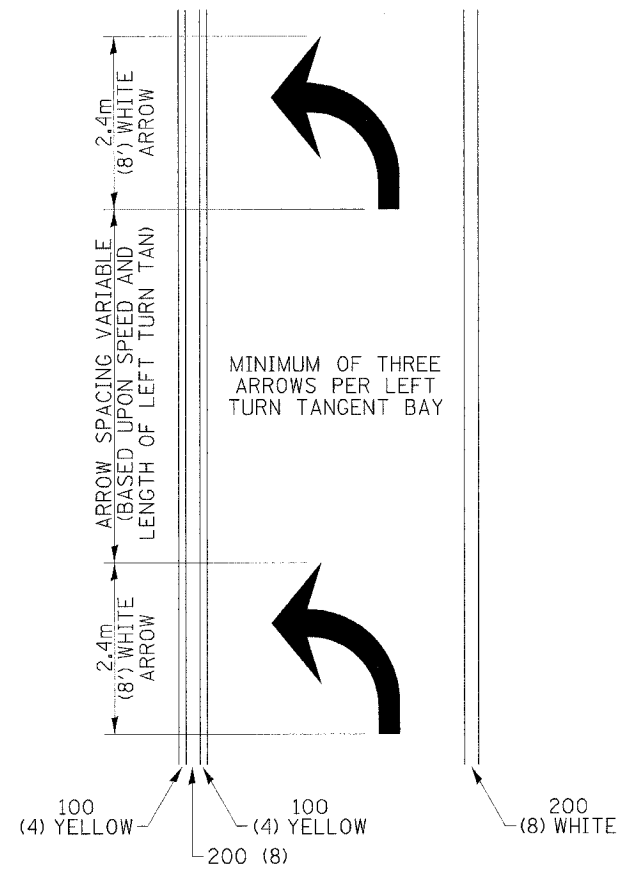
DRAWN BY:

DESIGNED BY:

Thu, Feb 12, 11:04:43 2004  
c:\p\projects\tag2\tag2.mcd\tag2.dgn

# TYPICAL PAVEMENT MARKINGS

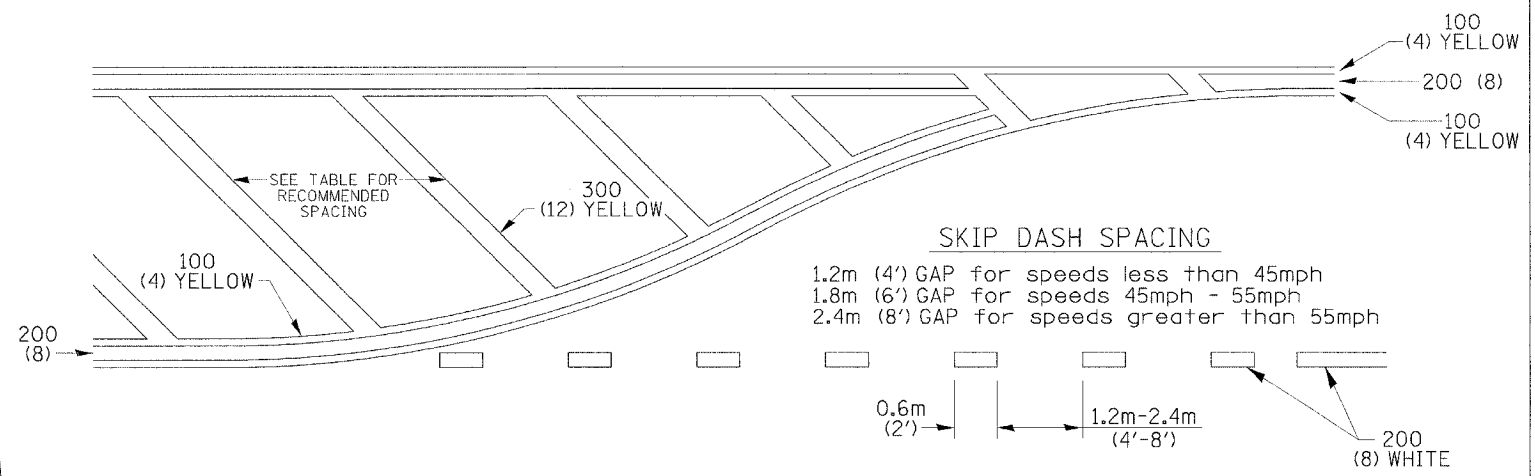
## ARROW LAYOUT



- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER
- ◀ TWO-WAY AMBER MARKER

ALL DIMENSIONS ARE IN MILLIMETER (INCHES) UNLESS OTHERWISE SHOWN.

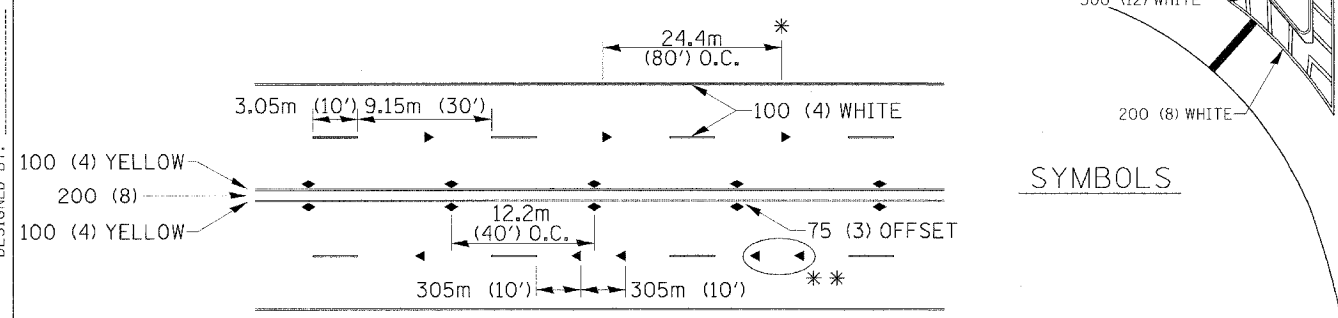
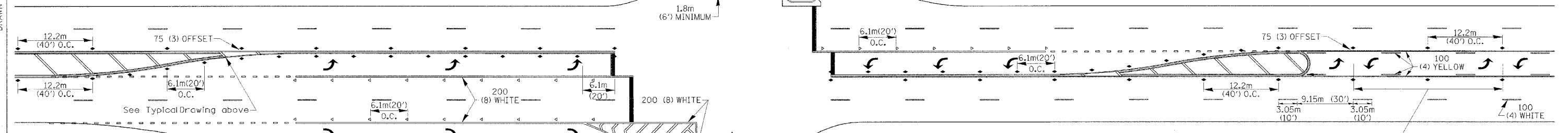
## TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



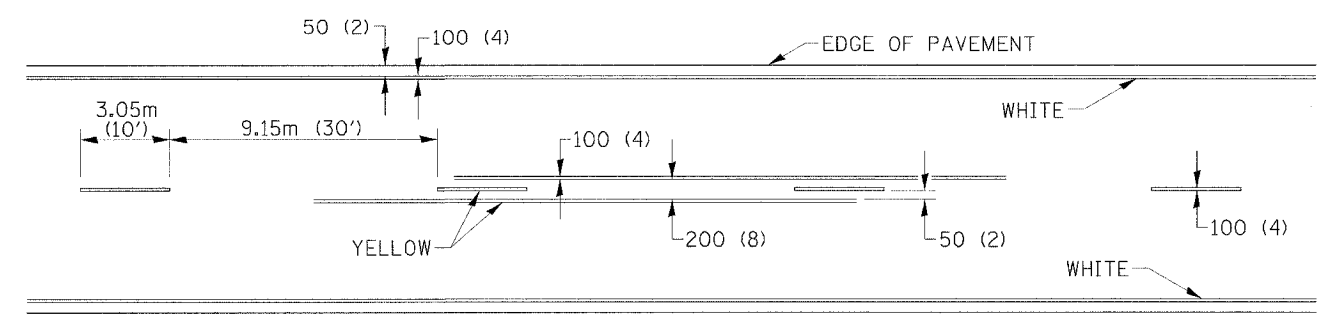
## RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 50Km/H(30MPH)	15.3m (50')	4.53m (15')	3.05m (10')
50-60Km/H(30-40MPH)	22.9m (75')	6.1m (20')	4.53m (15')
70Km/H(45MPH) & over	22.9m (75')	9.05m (30')	6.1m (20')

NOTE: If the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



## TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION - NO PASSING ZONES



## SYMBOLS

See Typical Drawing above

12.2m  
6 at (40') O.C.  
APPROACH SIDE ONLY

## MULTI-LANE / UNDIVIDED

- \* REDUCE TO 12.2m (40') O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 15Km/H (10MPH) LOWER THAN POSTED SPEEDS.
- \*\* USE DOUBLE MARKERS WHEN ADT ≥ 25,000

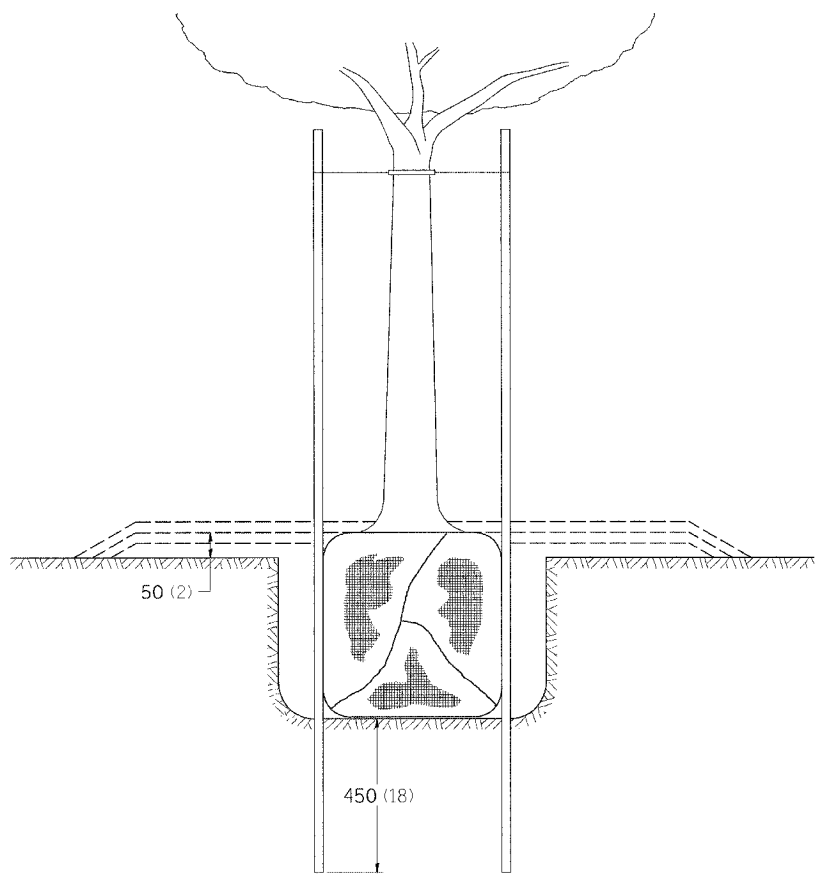
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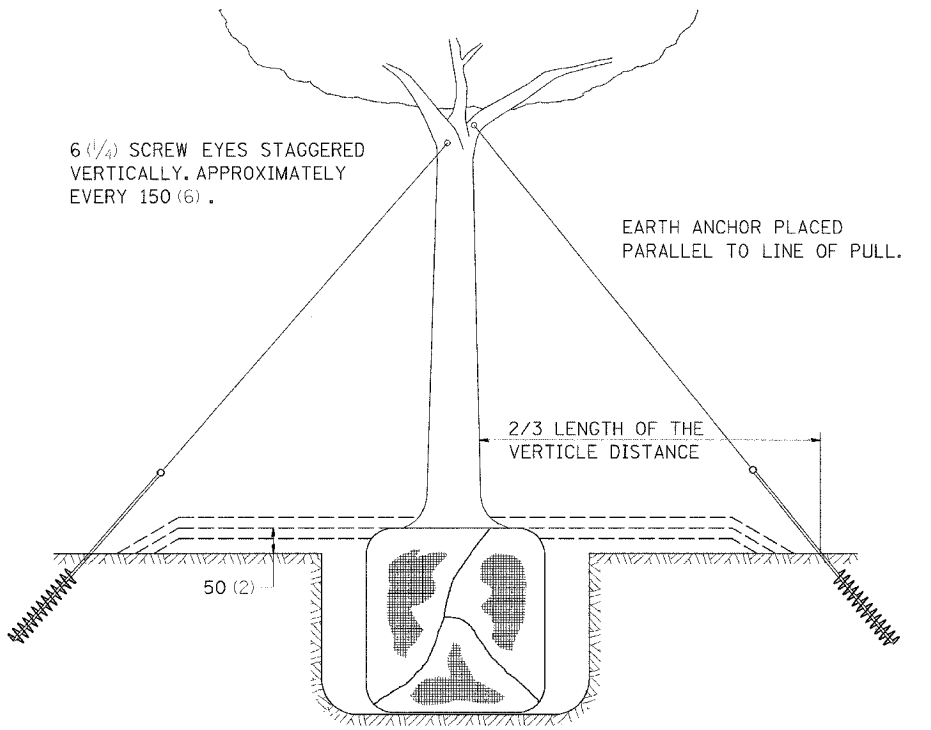
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# DETAILS OF PLANTING AND BRACING TREES

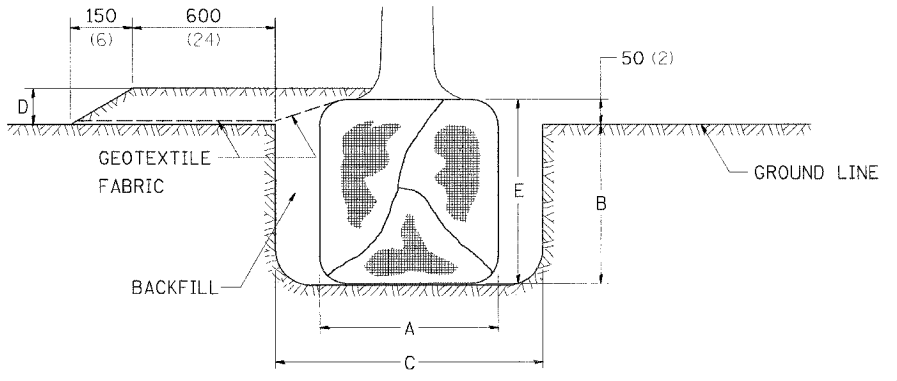
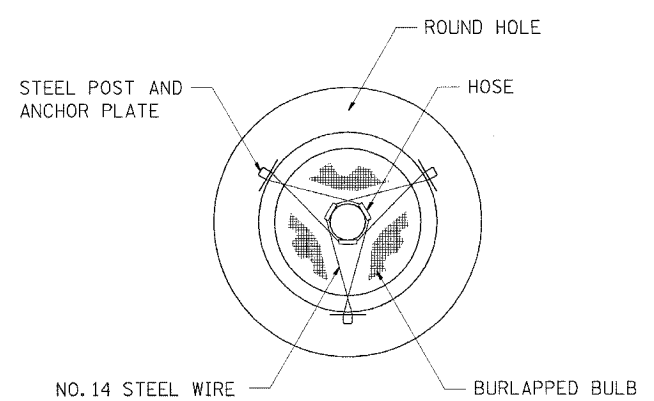


SMALL	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER m <sup>3</sup> (CU. YDS.)
1.5-1.8m (5'-6')	400 (16)	250 (10)	750 (30)	100 (4)	300 (12)	0.41 (0.54)
1.5-1.8m (5'-6') BB	400 (16)	250 (10)	750 (30)	100 (4)	300 (12)	0.41 (0.54)
1.8-2.0m (6'-7')	450 (18)	300 (12)	750 (30)	100 (4)	350 (14)	0.41 (0.54)
1.8-2.0m (6'-7') BB	450 (18)	300 (12)	750 (30)	100 (4)	350 (14)	0.41 (0.54)
2.0-2.4m (7'-8')	500 (20)	275 (11)	750 (30)	100 (4)	325 (13)	0.41 (0.54)
2.4-3.0m (8'-10')	600 (24)	350 (14)	900 (36)	100 (4)	400 (16)	0.47 (0.61)
3.0-3.6m (10'-12')	650 (26)	375 (15)	900 (36)	100 (4)	425 (17)	0.47 (0.61)

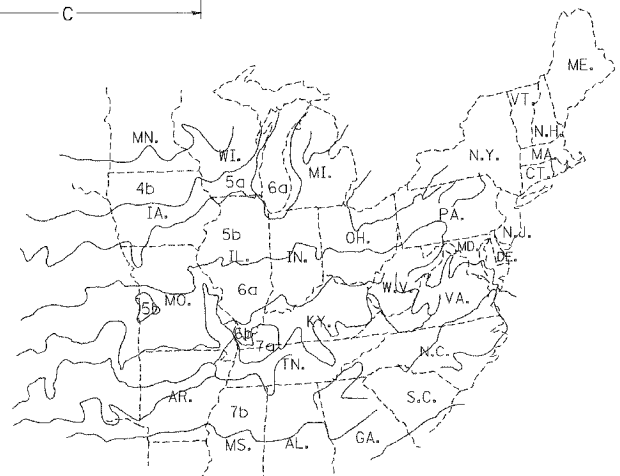
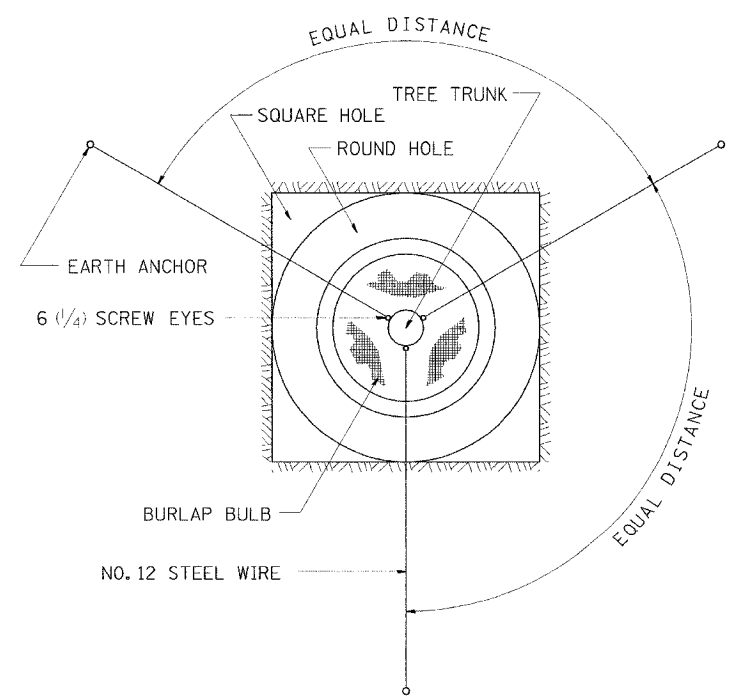
LARGE	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER m <sup>3</sup> (CU. YDS.)
0-50 (0-2)	500 (20)	275 (11)	900 (36)	100 (4)	325 (13)	0.47 (0.61)
50-65 (2-2 1/2) BB	600 (24)	350 (14)	1200 (48)	100 (4)	400 (16)	0.60 (0.78)
65-75 (2 1/2-3) BB	700 (28)	425 (17)	1200 (48)	100 (4)	475 (19)	0.60 (0.78)
75-90 (3-3 1/2) BB	800 (32)	425 (17)	1500 (60)	100 (4)	475 (19)	0.73 (0.96)
90-100 (3 1/2-4) BB	900 (36)	500 (20)	1500 (60)	100 (4)	550 (22)	0.73 (0.96)
100-115 (4-4 1/2) BB	1000 (40)	550 (22)	1800 (72)	100 (4)	600 (24)	0.89 (1.16)
115-125 (4 1/2-5) BB	1100 (44)	600 (24)	1800 (72)	100 (4)	650 (26)	0.89 (1.16)
125-140 (5-5 1/2) BB	1200 (48)	675 (27)	2100 (84)	100 (4)	725 (29)	1.06 (1.38)



TREES SMALLER THAN 115 (4 1/2) IN DIAMETER



TREES OVER 115 (4 1/2) IN DIAMETER



PLANT HARDINESS ZONE MAP  
U.S. DEPARTMENT OF AGRICULTURE  
AGRICULTURAL RESEARCH SERVICE  
PUBLICATION NO. 814

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

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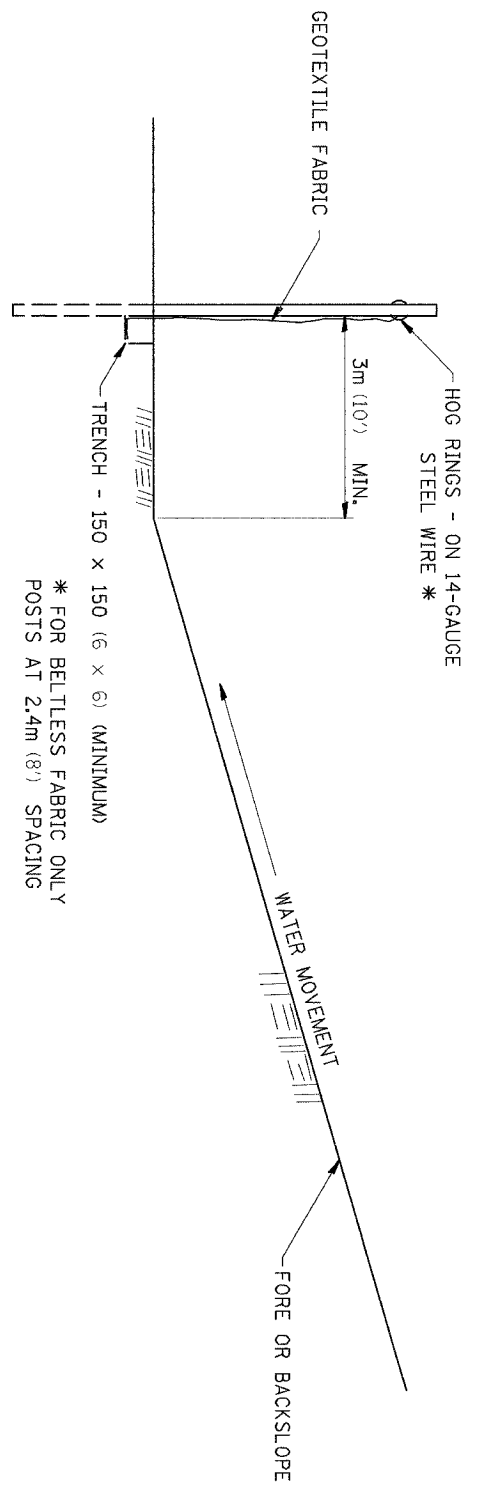
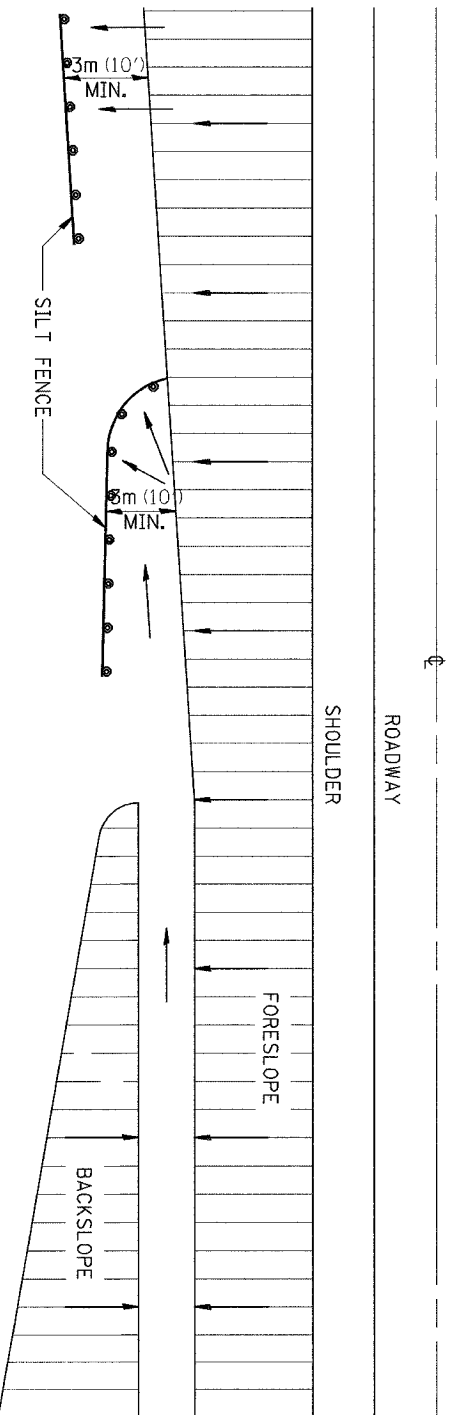
CHECKED BY:

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# EROSION CONTROL DETAILS FOR SILT FENCE

F.A.P. SHEET NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42M-FBR & 42M-F-T	ROCK ISLAND	90	61
STA. 40+30 & 326+50 TO STA. 411+46 & 336+10				
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



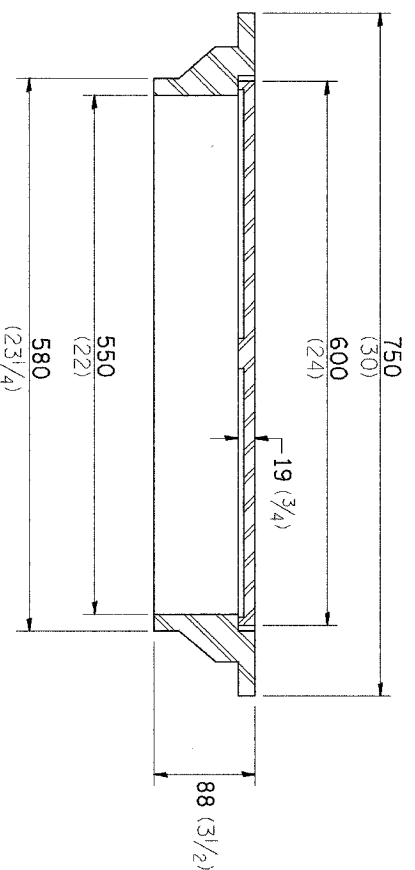
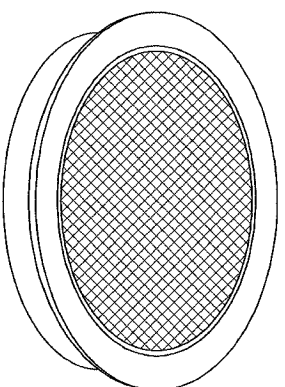
\* FOR BELTLESS FABRIC ONLY  
POSTS AT 2.4m (8') SPACING

DETAILS OF SILT FENCE

# FIELD TILE JUNCTION VAULTS

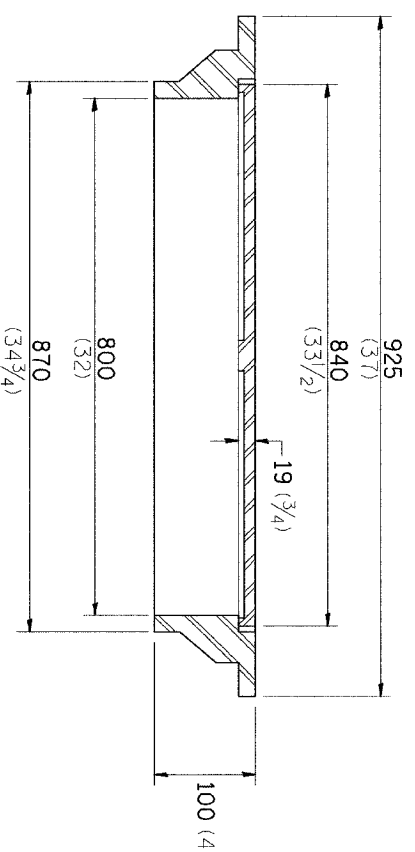
## 600 (24) AND 900 (36) DIA.

F.A.P. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-BR & 42MFT-T	ROCK ISLAND	90	62
STA. 404+30 & 326+50 TO STA. 411+46 & 336+10				
FED. ROAD DIST. NO. 7	TOWNSHIP	SECTION	FED. AID PROJECT	



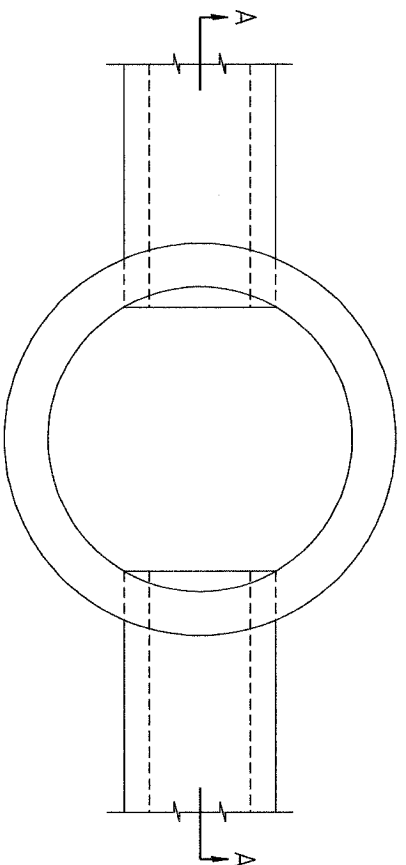
FRAME & LID FOR  
600 (24) VAULT

TOTAL WEIGHT: 66 Kg (146 lbs)

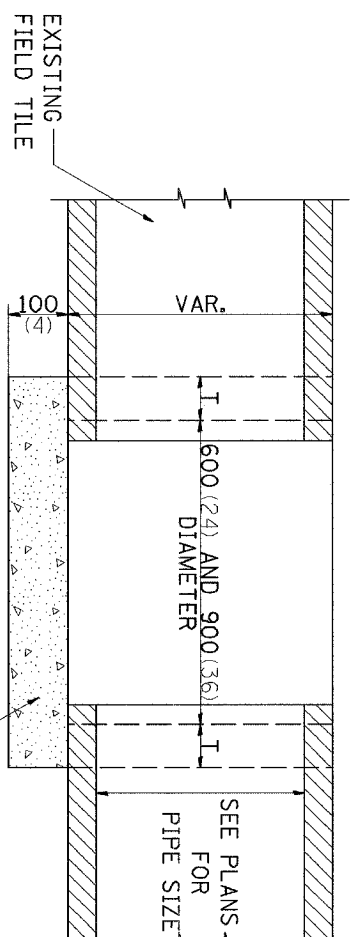


FRAME & LID FOR  
900 (36) VAULT

TOTAL WEIGHT: 127 Kg (280 lbs)



PLAN

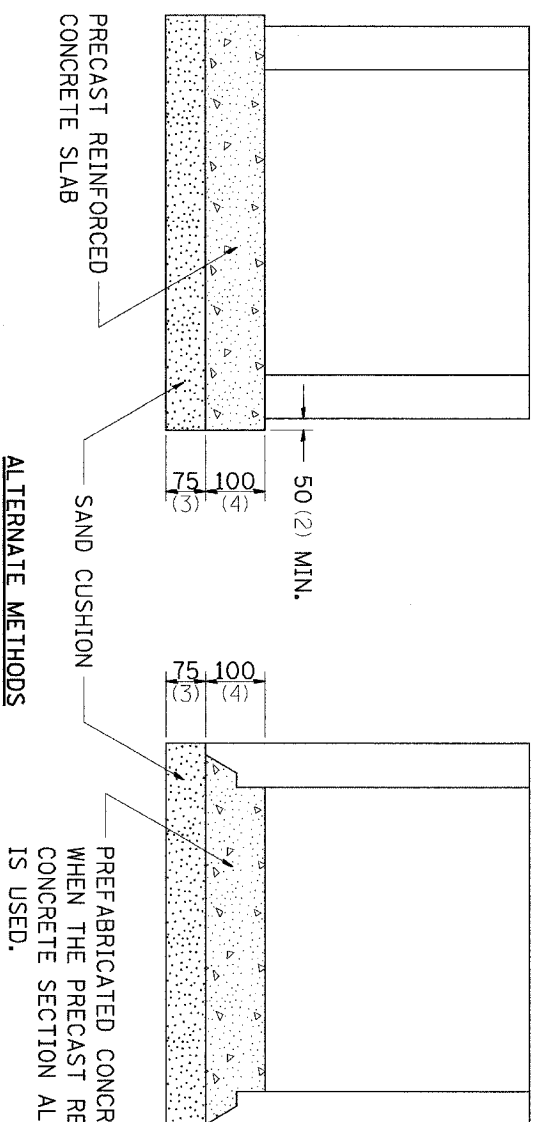


SECTION A-A

NOTE: THE FRAME AND LID IS REQUIRED ON ALL JUNCTION VAULTS.

ALTERNATE MATERIALS FOR WALLS	T
BRICK MASONRY	200 (8)
CAST-IN-PLACE CONCRETE	150 (6)
CONCRETE MASONRY UNIT	125 (5)
PRECAST REINFORCED CONCRETE SECTION	75 (3)

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.



ALTERNATE METHODS

# BITUMINOUS SHOULDER

F. A. P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	42MFT-BR & 42MFT-T	ROCK ISLAND	90	63
STA. 404+30 & 326+50		TO STA. 411+46 & 336+10		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

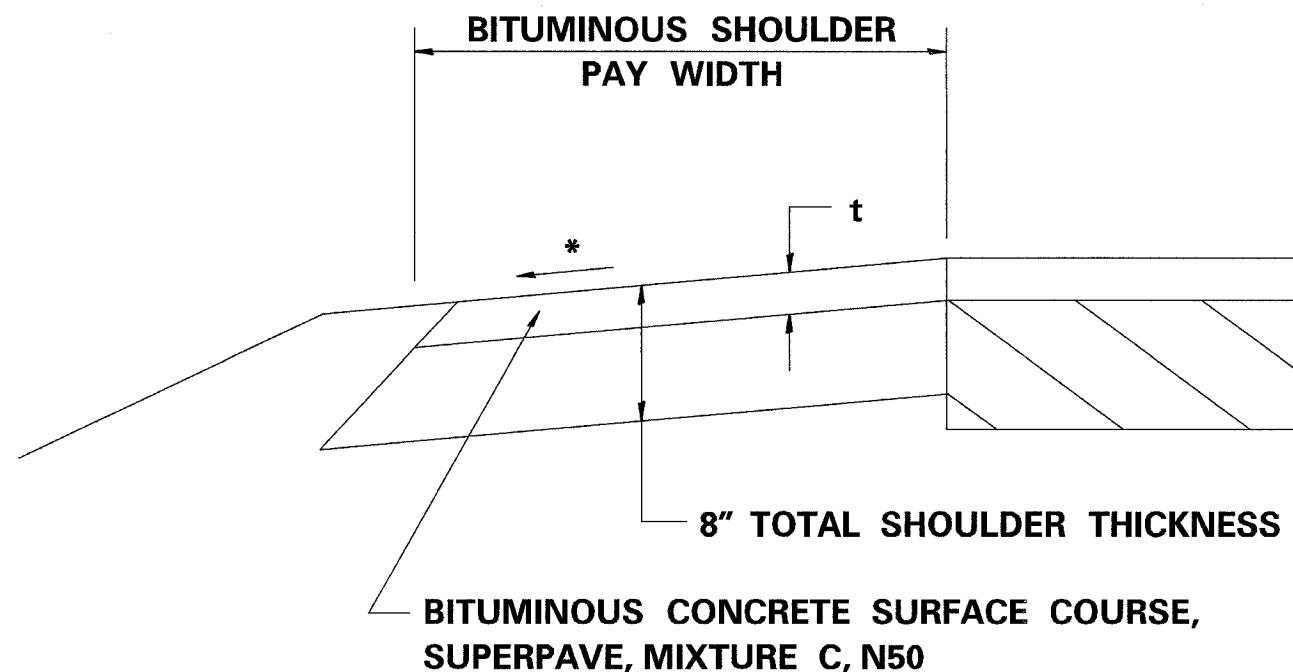
## GENERAL NOTES

THE BITUMINOUS SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIXTURE C, N50. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIXTURE C, N50, AND SQUARE YARD FOR BITUMINOUS SHOULDERS SUPERPAVE OF THE THICKNESS SPECIFIED.

USE BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIXTURE C, N50, WHEN RESURFACING EXISTING BITUMINOUS SHOULDERS. THE THICKNESS IS SHOWN ON THE TYPICAL SECTIONS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIXTURE C, N50.

REMOVAL OF MATERIAL FOR PLACEMENT OF THE BITUMINOUS SHOULDER TO BE PAID FOR IN UNITS FOR EXCAVATING AND GRADING EXISTING SHOULDERS OR IN CUBIC YARDS FOR EARTH EXCAVATION OR EARTH EXCAVATION WIDENING.

\* 4% WHEN MAINLINE IS ON TANGENT. FOR CROSS SLOPE ON SUPERELEVATION SECTION, SEE HIGHWAY STANDARD 482001 OR 482006.



t = SEE TYPICAL SECTIONS  
FOR THICKNESS

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)  
UNLESS OTHERWISE NOTED.

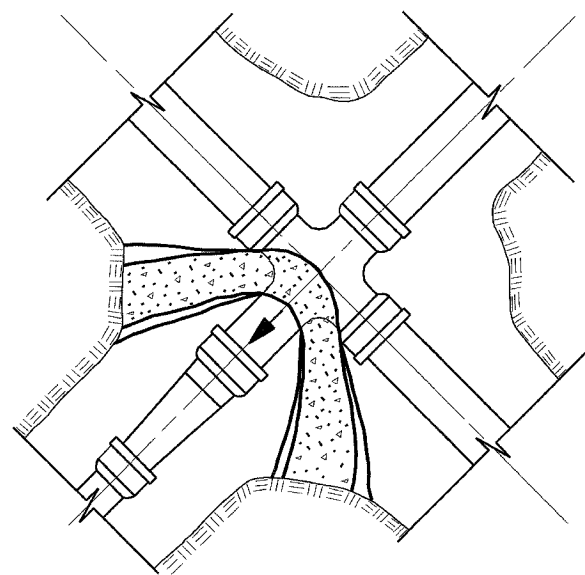
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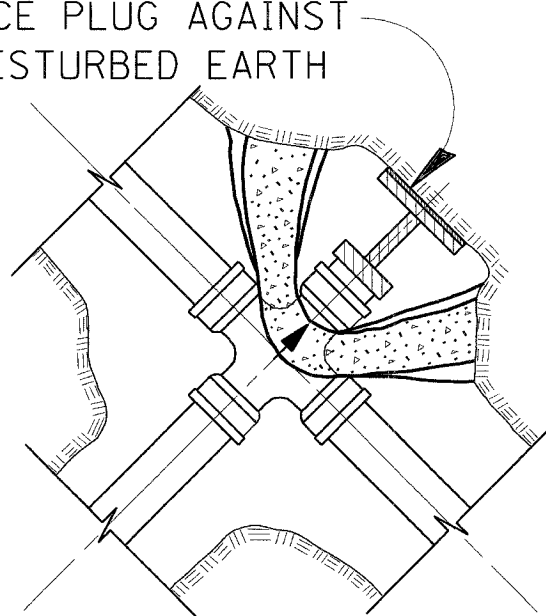
# THRUST BLOCK DETAILS

F. A. P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	42MFT-BR & 42MFT-T	ROCK ISLAND	90	64
STA. 404+30 & 326+50		TO STA. 411+46 & 336+10		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	



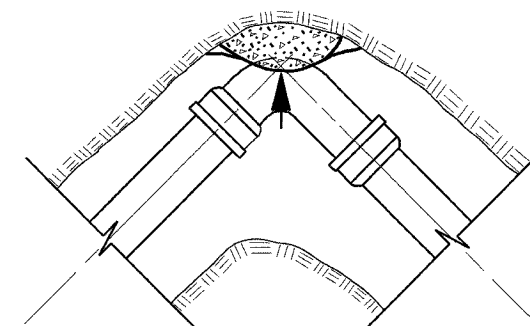
REDUCING CROSS

BRACE PLUG AGAINST  
UNDISTURBED EARTH

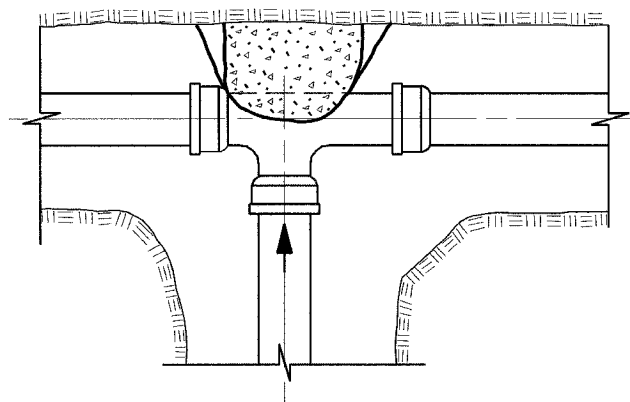


PLUGGED CROSS

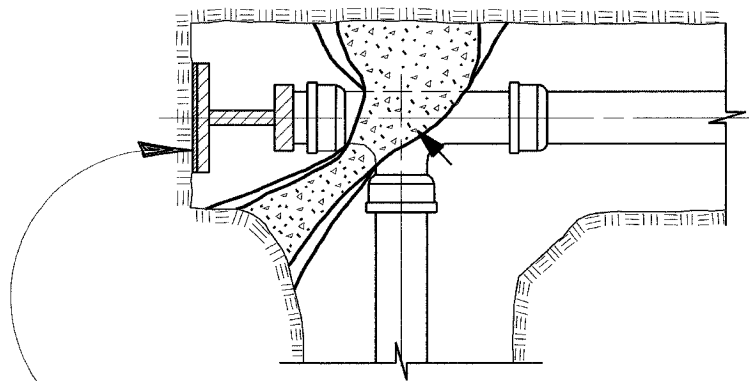
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES)  
UNLESS OTHERWISE SHOWN.



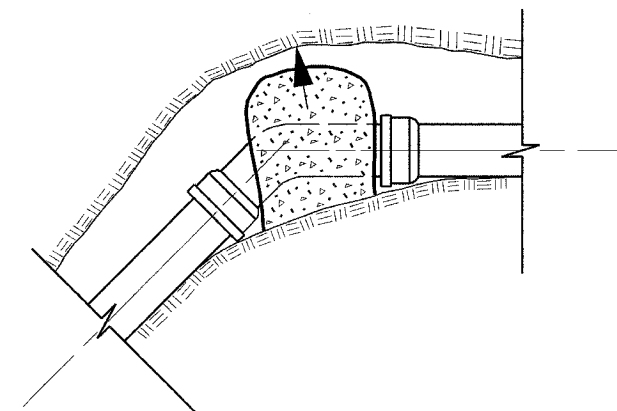
90° ELBOW



TEE



BRACE PLUG AGAINST  
UNDISTURBED EARTH  
PLUGGED TEE



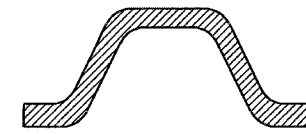
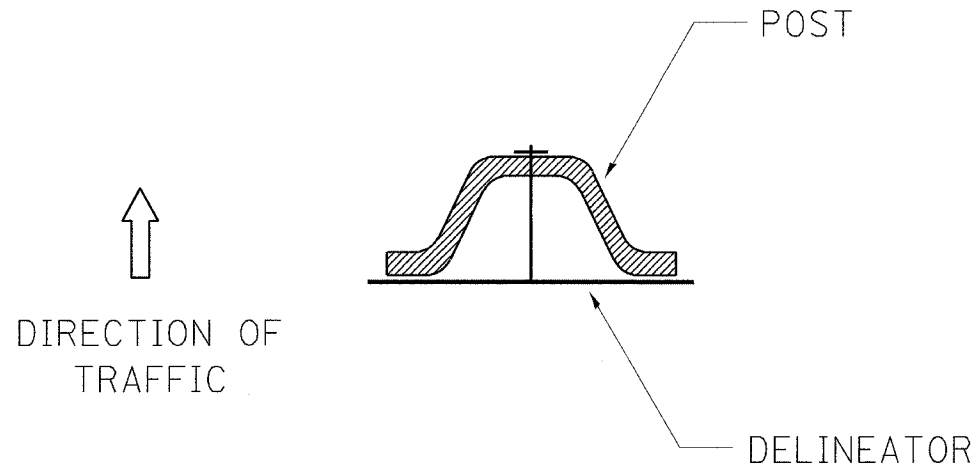
VERTICAL BEND

NOTES:  
ALL BLOCKS TO BEAR AGAINST UNDISTURBED EARTH.  
ARROWS INDICATE DIRECTION OF THRUST.  
ALL BLOCKS TO BE CLASS SI CONCRETE.  
ALL FITTINGS SHOWN IN PLAN EXCEPT VERTICAL BEND.

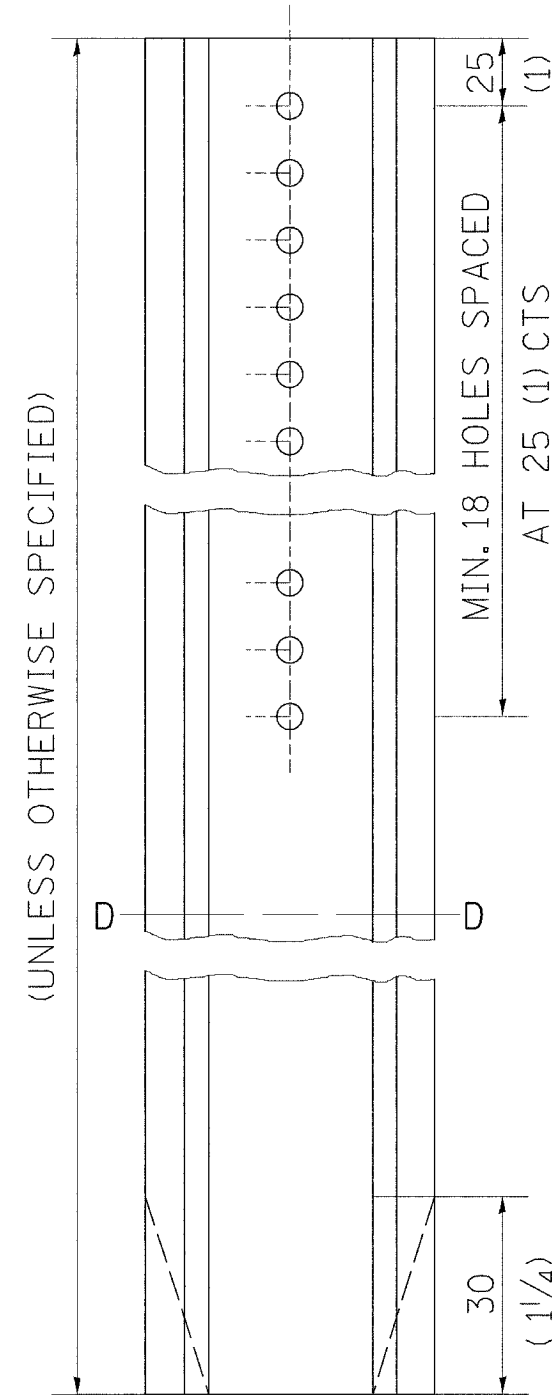


# DELINEATOR AND POST ORIENTATION

F. A. P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	42MFT-BR & 42MFT-T	ROCK ISLAND	90	65
STA. 404+30 & 326+50		TO STA. 411+46 & 336+10		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



SECTION D-D



DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180°. THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE DELINEATOR ATTACHED AS SHOWN ABOVE.

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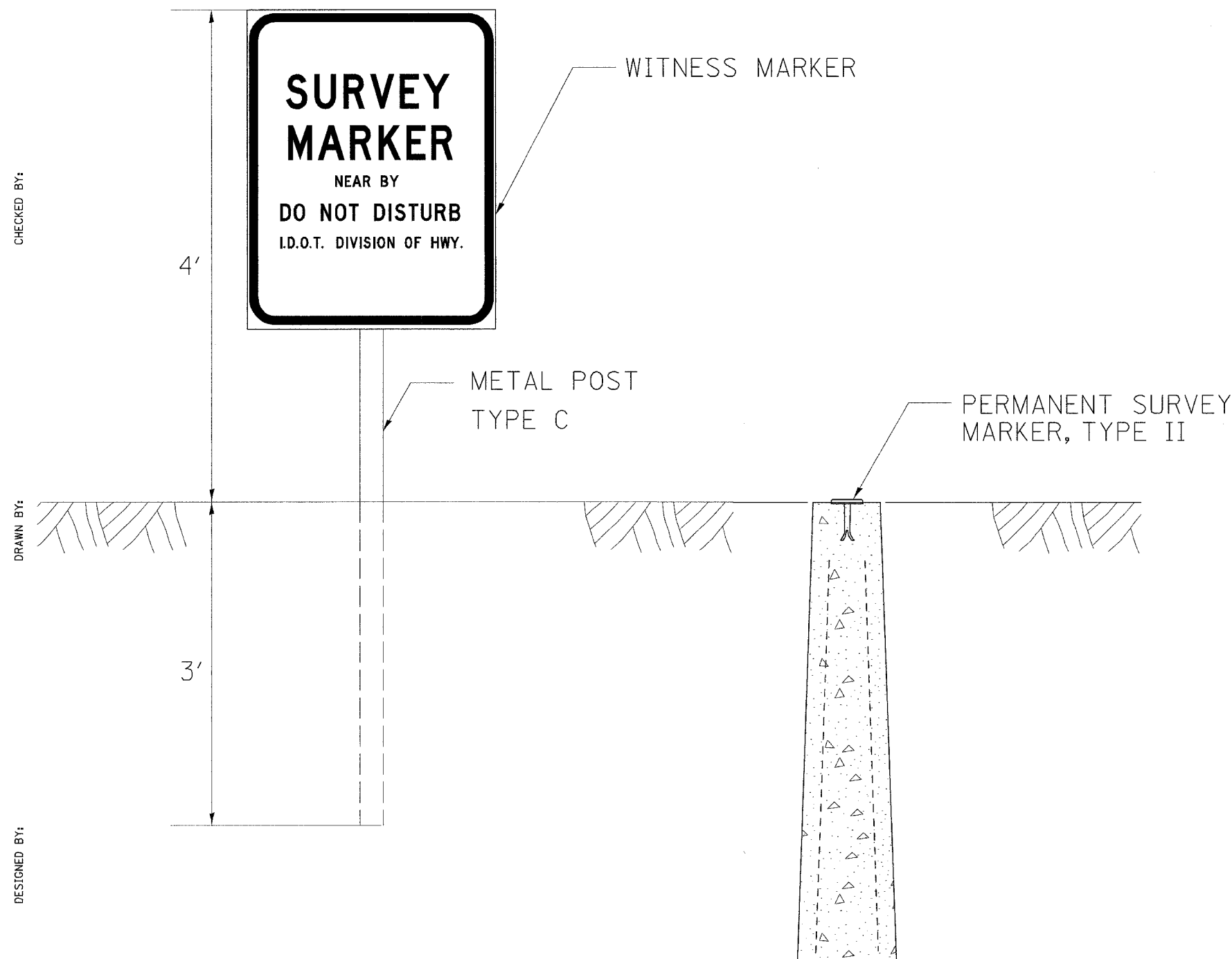
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DESIGNED BY:

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F. A. P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	42MFT-BR & 42MFT-T	ROCK ISLAND	90	66
STA. 404+30 & 326+50		TO STA.	411+46 & 336+10	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

## WITNESS MARKER FOR PERMANENT SURVEY MARKERS TYPE II



### GENERAL NOTES

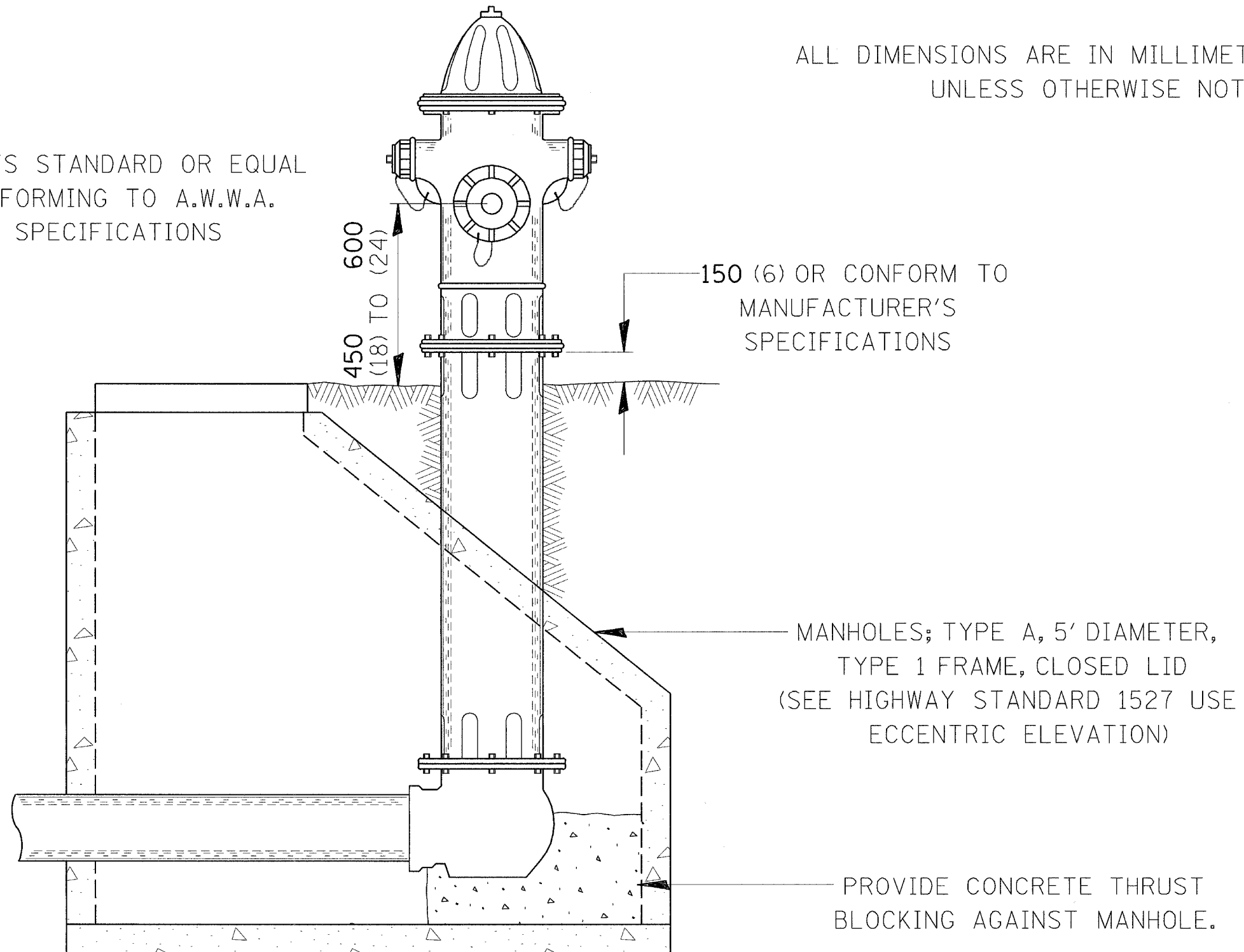
A WITNESS MARKER ON A POST SHALL BE INSTALLED WITHIN 1' OF ALL PERMANENT SURVEY MARKERS TYPE II. THE WITNESS MARKERS CAN BE PICKED UP AT THE DISTRICT OFFICE IN DIXON. THE POST SHALL BE TYPE C AS SHOWN ON HIGHWAY STANDARD 720011. THIS WORK WILL BE INCLUDED TO THE CONTRACT UNIT PRICE PER EACH FOR PERMANENT SURVEY MARKERS, TYPE II.

# TYPICAL HYDRANT INSTALLATION

ROUTE NO.	SEC.	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-BR & 42MFT-T	ROCK ISLAND	90	67
FED. ROAD DIST. NO. 7		ILLINOIS PROJECT		

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES)  
UNLESS OTHERWISE NOTED.

OWNER'S STANDARD OR EQUAL  
CONFORMING TO A.W.W.A.  
SPECIFICATIONS



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# LETTERING FOR NAME PLATE

F. A. P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	42MFT-BR & 42MFT-T	ROCK ISLAND	90	68
STA. 404+30 & 326+50		TO STA. 411+46 & 336+10		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

STATION  
BUILT 200 BY  
STATE OF ILLINOIS  
RTE. SEC.  
FA PROJECT  
LOADING HS 20  
STR. NO.

SEE STD. 515001

## DESIGNERS NOTE

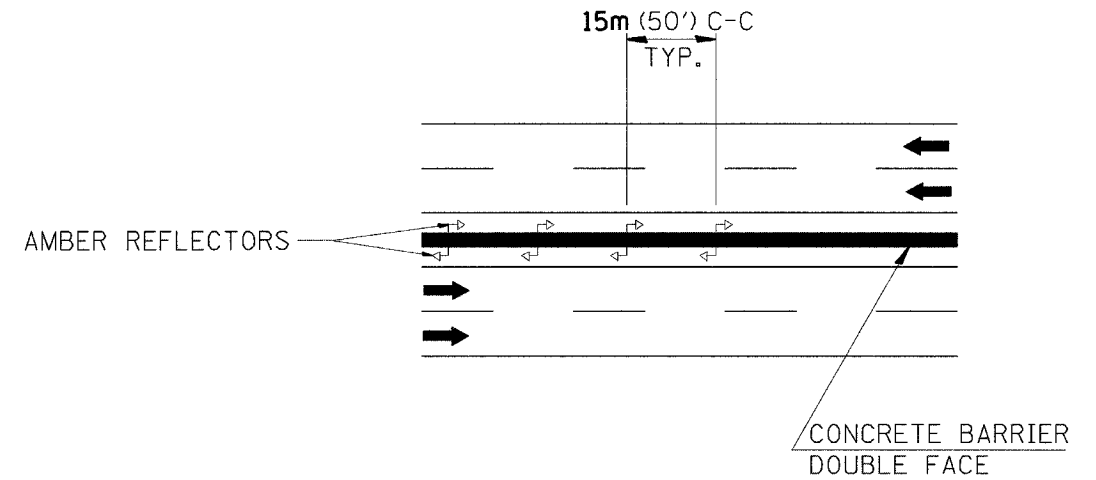
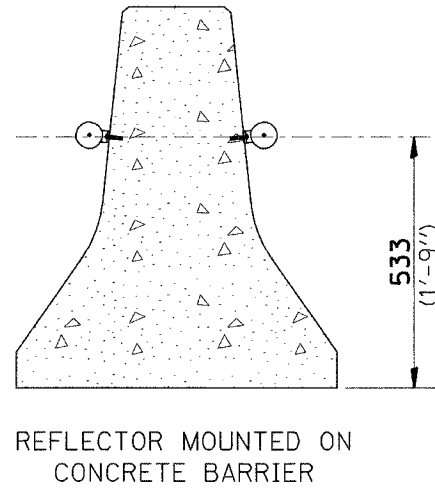
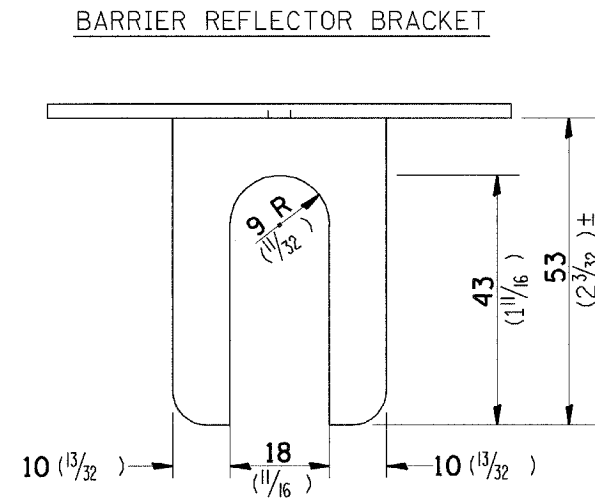
WHEN USING A DOUBLE BOX CULVERT GET  
A STRUCTURE NUMBER AND SHOW IT ON THE  
GENERAL NOTES. IF THE DOUBLE BOX CULVERT  
IS EQUAL TO OR GREATER THAN 6.1m (20 FT) WIDE  
INCLUDE A PAY ITEM FOR NAME PLATES AND  
INCLUDE THIS DETAIL IN THE PLANS.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES)  
UNLESS OTHERWISE NOTED.



# BARRIER REFLECTORS

F. A. P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	42MFT-BR & 42MFT	ROCK ISLAND	90	70
STA. 404+30 & 326+50		TO STA. 411+46 & 336+10		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



## NOTES:

BRACKET TO BE FABRICATED FROM 12 GAUGE (MIN) STEEL GALVANIZED IN ACCORDANCE WITH ASSHTO M 111.

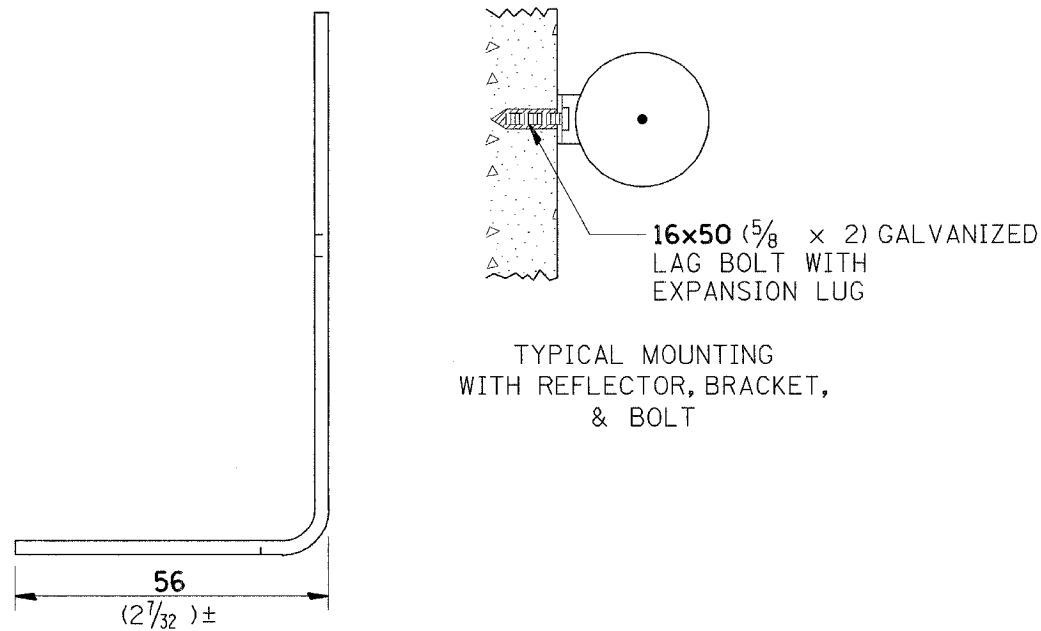
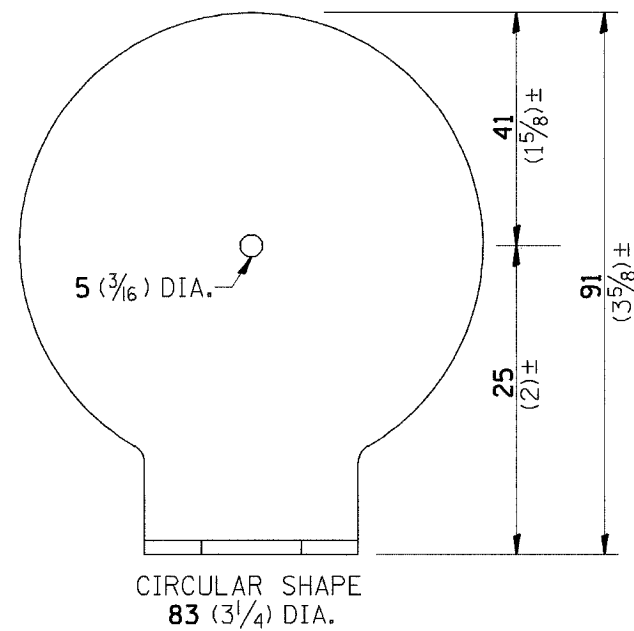
INSTALL AMBER REFLECTORS WITH SPACING OF **15m (50')** CENTERS.

BRACKET SHALL BE PLACED BETWEEN THE BOLT HEAD AND THE PLATE WASHER.

REFLECTORS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 784.07 OF THE STANDARD SPECIFICATIONS.

THIS WORK SHALL BE CONSIDERED INCIDENTAL TO UNIT COST OF **CONCRETE BARRIER**.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.



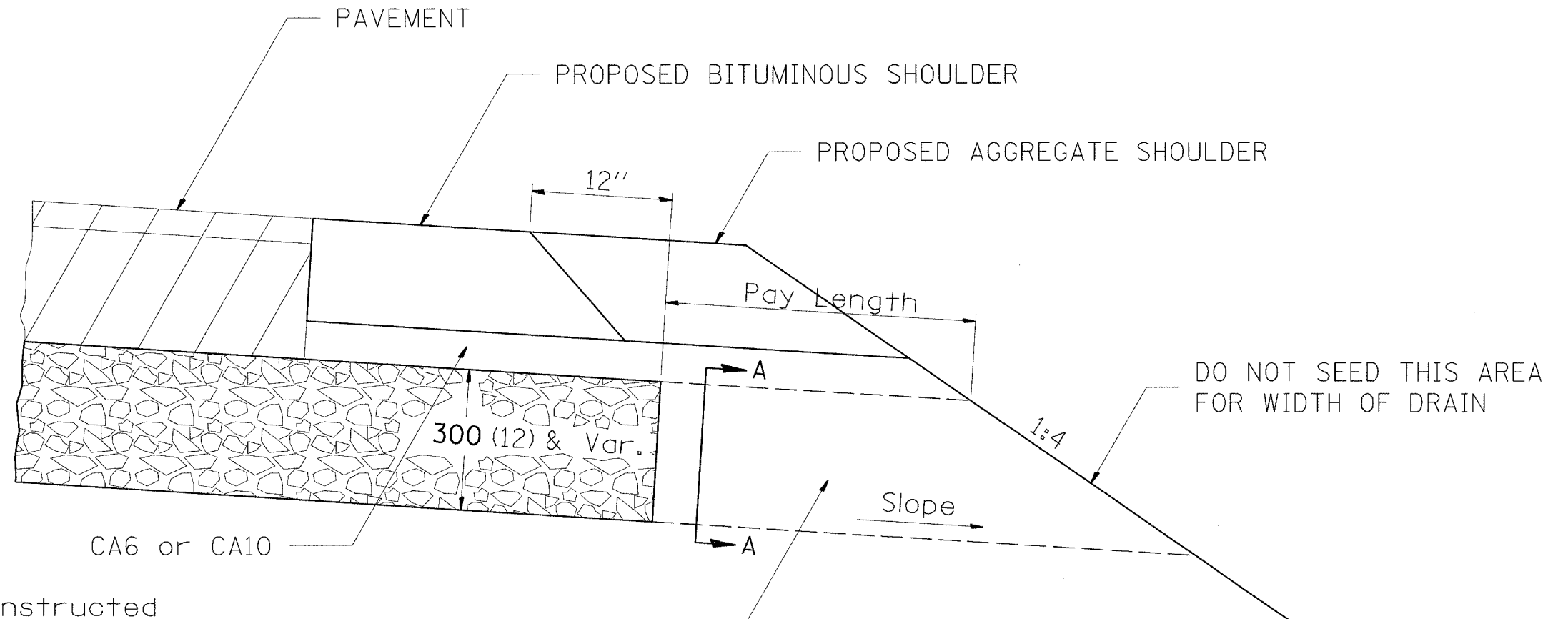
BARRIER REFLECTORS

STANDARD 92.4

F. A. P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
599	42MFT-BR & 42MFT-T	ROCK ISLAND	90	71
STA. 404+30 & 326+50		TO STA. 411+46 & 336+10		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

# DRAIN FOR AGGREGATE BASE COURSE

NOTE: ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.



## NOTES:

The rock outlets shall be constructed using CA7 and will be paid for at the contract unit price per  $m^2$  (SQ. YD.) for SUB-BASE GRANULAR MATERIAL, TYPE A of the thickness specified which includes the filter fabric. The Rock outlets will be measured in  $m^2$  (SQ. YD.), the width being 900 (36) by the length shown above. The cost of the CA6 or CA10 under the shoulder shall be included in the contract unit price per  $m^2$  (SQ. YD.) for SUB-BASE GRANULAR MATERIAL, TYPE A of the thickness specified. The filter fabric to be used shall conform to the filter fabric used for Riprap.



SECTION A-A

ROCK OUTLET AT ALL LOW POINTS TO BE 900 (36) WIDE AND EXTEND TO FORESLOPE

NOTE: Slope same as shoulder with 2% min.

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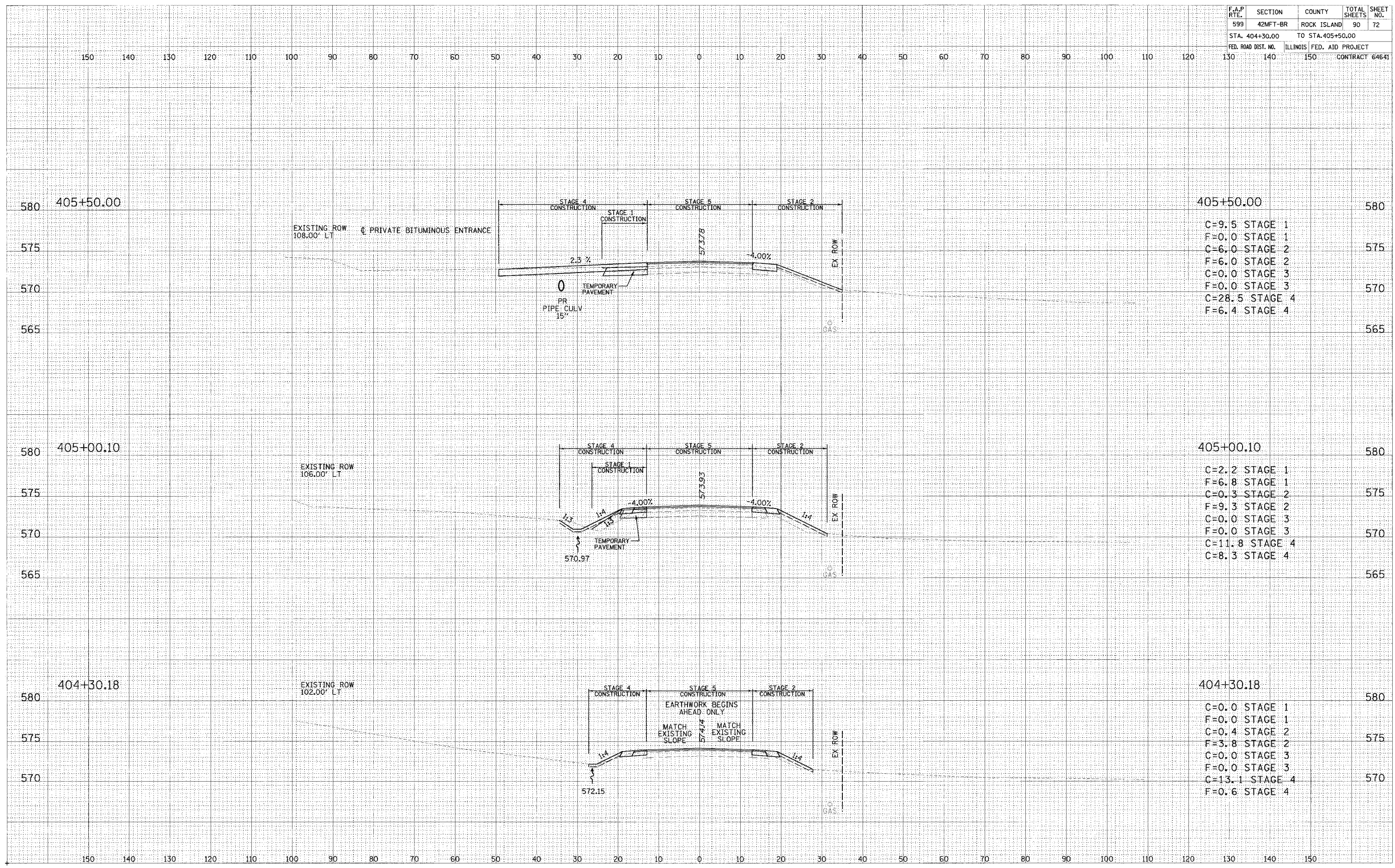
DRAWN BY:

DESIGNED BY:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-BR	ROCK ISLAND	90	72
STA. 404+30.00		TO STA. 405+50.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT 64641		

FINAL SURVEY	DATE
BY	
DATE	
BY	
DATE	
BY	
DATE	

ORIGINAL SURVEY	DATE
BY	
DATE	
BY	
DATE	
BY	
DATE	



Station	Stage	C	F
405+50.00	STAGE 1	9.5	0.0
	STAGE 2	6.0	6.0
	STAGE 3	0.0	0.0
	STAGE 4	28.5	6.4

Station	Stage	C	F
405+00.10	STAGE 1	2.2	6.8
	STAGE 2	0.3	9.3
	STAGE 3	0.0	0.0
	STAGE 4	11.8	8.3

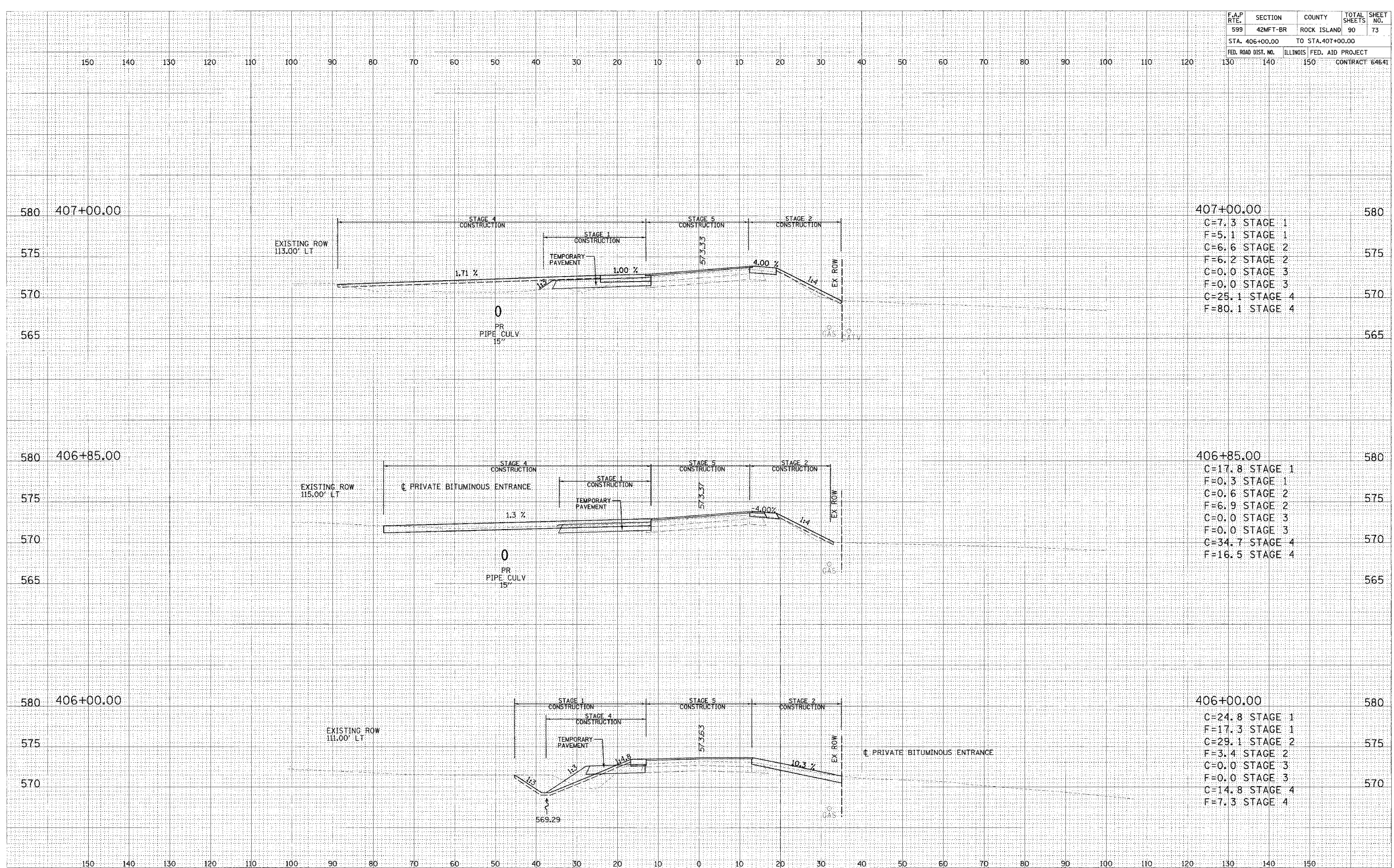
Station	Stage	C	F
404+30.18	STAGE 1	0.0	0.0
	STAGE 2	0.4	3.8
	STAGE 3	0.0	0.0
	STAGE 4	13.1	0.6



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-BR	ROCK ISLAND	90	73
STA. 406+00.00		TO STA. 407+00.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT 64641				

FINAL SURVEY	BY	DATE
DESIGNED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
AREAS		
CHECKED		

ORIGINAL SURVEY	BY	DATE
DESIGNED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
AREAS		
CHECKED		



407+00.00	580
C=7.3 STAGE 1	
F=5.1 STAGE 1	
C=6.6 STAGE 2	
F=6.2 STAGE 2	575
C=0.0 STAGE 3	
F=0.0 STAGE 3	
C=25.1 STAGE 4	570
F=80.1 STAGE 4	565

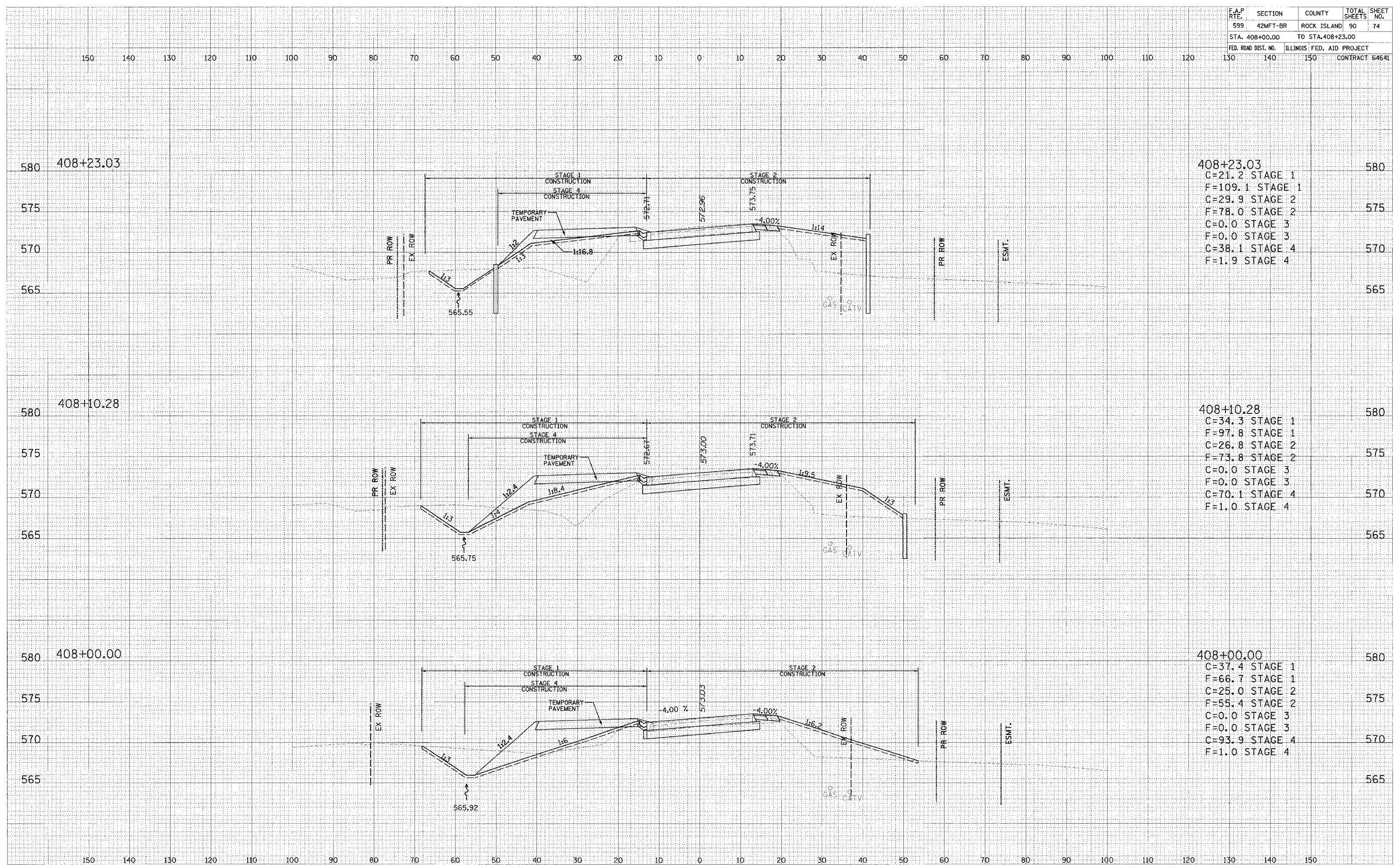
406+85.00	580
C=17.8 STAGE 1	
F=0.3 STAGE 1	
C=0.6 STAGE 2	
F=6.9 STAGE 2	575
C=0.0 STAGE 3	
F=0.0 STAGE 3	
C=34.7 STAGE 4	570
F=16.5 STAGE 4	565

406+00.00	580
C=24.8 STAGE 1	
F=17.3 STAGE 1	
C=29.1 STAGE 2	
F=3.4 STAGE 2	575
C=0.0 STAGE 3	
F=0.0 STAGE 3	
C=14.8 STAGE 4	570
F=7.3 STAGE 4	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-BR	ROCK ISLAND	90	74
STA. 408+00.00		TO STA. 408+23.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
		CONTRACT 64641		

DATE	
BY	
NO.	
FINAL SURVEY	
NOTE BOOK	
AREAS CHANGED	

DATE	
BY	
NO.	
ORIGINAL SURVEY	
NOTE BOOK	
AREAS CHANGED	



408+23.03	580
C=21.2 STAGE 1	
F=109.1 STAGE 1	
C=29.9 STAGE 2	
F=78.0 STAGE 2	575
C=0.0 STAGE 3	
F=0.0 STAGE 3	
C=38.1 STAGE 4	570
F=1.9 STAGE 4	

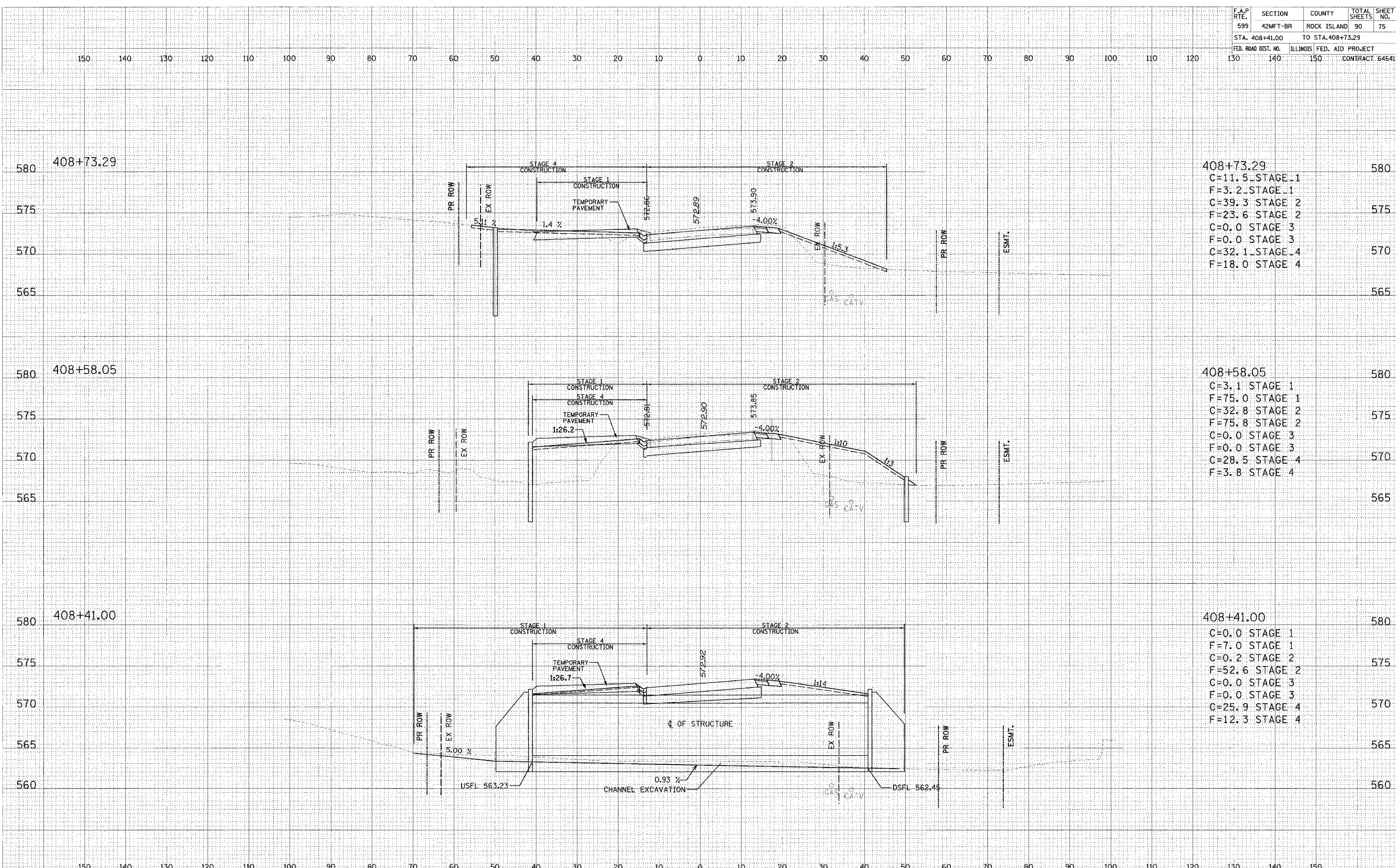
408+10.28	580
C=34.3 STAGE 1	
F=97.8 STAGE 1	
C=26.8 STAGE 2	
F=73.8 STAGE 2	575
C=0.0 STAGE 3	
F=0.0 STAGE 3	
C=70.1 STAGE 4	570
F=1.0 STAGE 4	

408+00.00	580
C=37.4 STAGE 1	
F=66.7 STAGE 1	
C=25.0 STAGE 2	
F=55.4 STAGE 2	575
C=0.0 STAGE 3	
F=0.0 STAGE 3	
C=93.9 STAGE 4	570
F=1.0 STAGE 4	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-BR	ROCK ISLAND	90	75
STA. 408+41.00 TO STA. 408+73.29				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
CONTRACT 64641				

DATE	BY
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NOTE BOOK	AREAS CHECKED
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DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	AREAS CHECKED
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408+73.29	580
C=11.5 STAGE 1	
F=3.2 STAGE 1	
C=39.3 STAGE 2	
F=23.6 STAGE 2	
C=0.0 STAGE 3	
F=0.0 STAGE 3	
C=32.1 STAGE 4	
F=18.0 STAGE 4	
	575
	570
	565

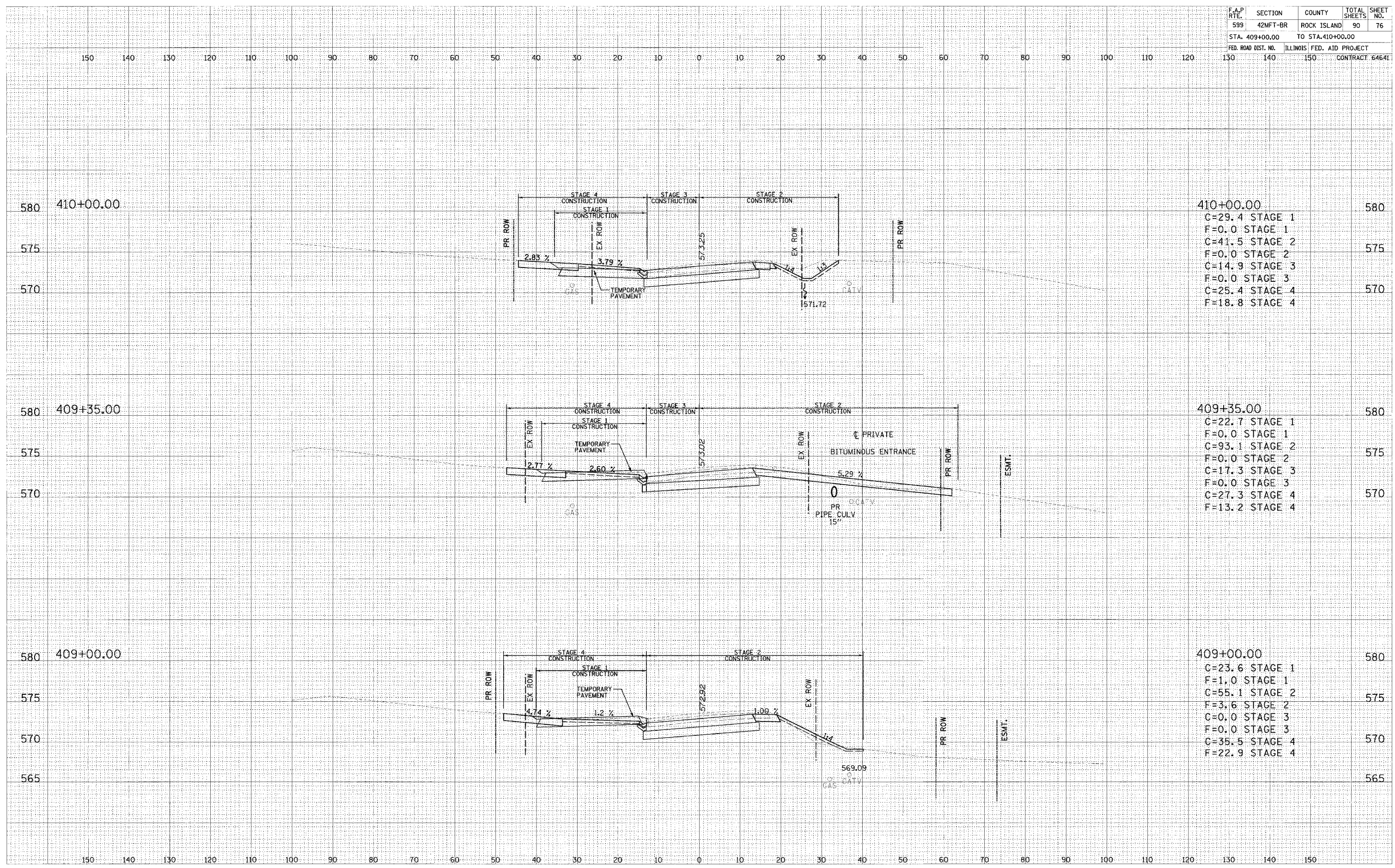
408+58.05	580
C=3.1 STAGE 1	
F=75.0 STAGE 1	
C=32.8 STAGE 2	
F=75.8 STAGE 2	
C=0.0 STAGE 3	
F=0.0 STAGE 3	
C=28.5 STAGE 4	
F=3.8 STAGE 4	
	575
	570
	565

408+41.00	580
C=0.0 STAGE 1	
F=7.0 STAGE 1	
C=0.2 STAGE 2	
F=52.6 STAGE 2	
C=0.0 STAGE 3	
F=0.0 STAGE 3	
C=25.9 STAGE 4	
F=12.3 STAGE 4	
	575
	570
	565
	560

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-BR	ROCK ISLAND	90	76
STA. 409+00.00		TO STA. 410+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
130		140 150 CONTRACT 64641		

FINAL SURVEY PLOTTED TEMPLATE AREAS CHECKED BY DATE

ORIGINAL SURVEY PLOTTED TEMPLATE AREAS CHECKED BY DATE



Station	Stage	C	F
410+00.00	STAGE 1	29.4	0.0
	STAGE 2	41.5	0.0
	STAGE 3	14.9	0.0
	STAGE 4	25.4	18.8

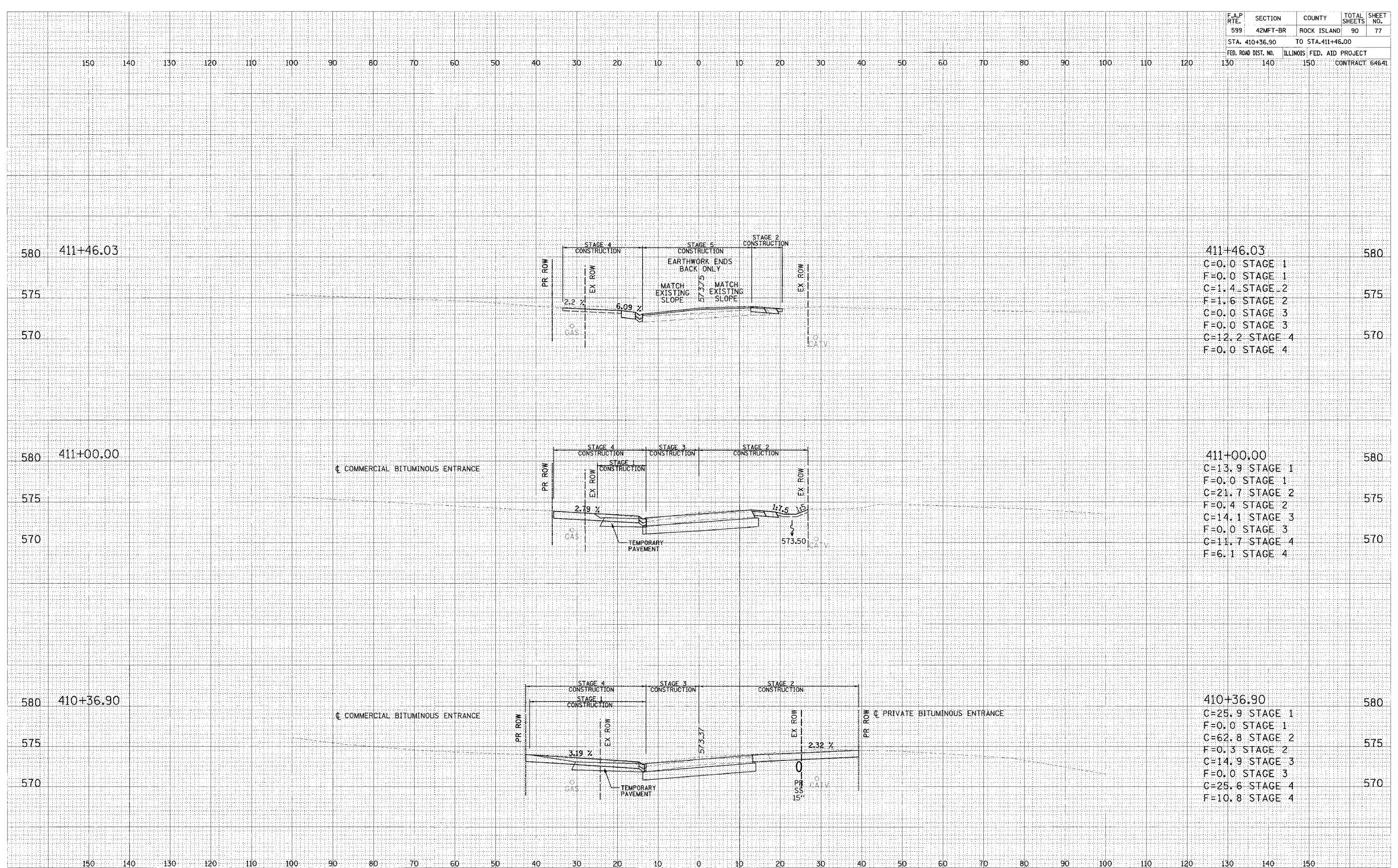
Station	Stage	C	F
409+35.00	STAGE 1	22.7	0.0
	STAGE 2	93.1	0.0
	STAGE 3	17.3	0.0
	STAGE 4	27.3	13.2

Station	Stage	C	F
409+00.00	STAGE 1	23.6	1.0
	STAGE 2	55.1	3.6
	STAGE 3	0.0	0.0
	STAGE 4	35.5	22.9

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-BR	ROCK ISLAND	90	77
STA. 410+36.90		TO STA. 411+46.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
130 140		150 CONTRACT 64641		

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411+46.03	580
C=0.0 STAGE 1	
F=0.0 STAGE 1	
C=1.4 STAGE 2	575
F=1.6 STAGE 2	
C=0.0 STAGE 3	
F=0.0 STAGE 3	
C=12.2 STAGE 4	570
F=0.0 STAGE 4	

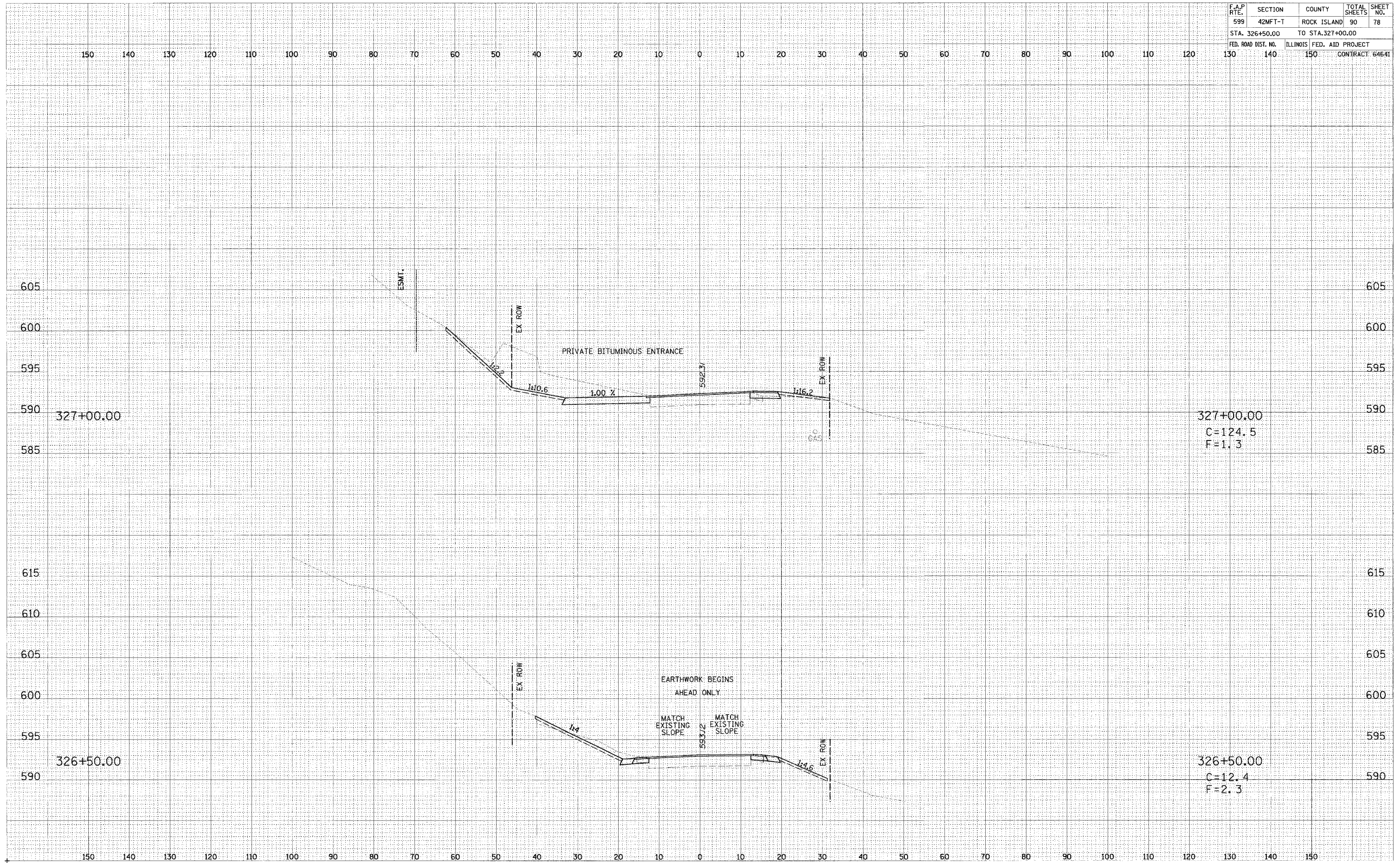
411+00.00	580
C=13.9 STAGE 1	
F=0.0 STAGE 1	
C=21.7 STAGE 2	575
F=0.4 STAGE 2	
C=14.1 STAGE 3	
F=0.0 STAGE 3	
C=11.7 STAGE 4	570
F=6.1 STAGE 4	

410+36.90	580
C=25.9 STAGE 1	
F=0.0 STAGE 1	
C=62.8 STAGE 2	575
F=0.3 STAGE 2	
C=14.9 STAGE 3	
F=0.0 STAGE 3	
C=25.6 STAGE 4	570
F=10.8 STAGE 4	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-T	ROCK ISLAND	90	78
STA. 326+50.00		TO STA. 327+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
130	140	150	CONTRACT: 64641	

FINAL SURVEY	DATE
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FINAL SURVEY	DATE
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NOTE BOOK	
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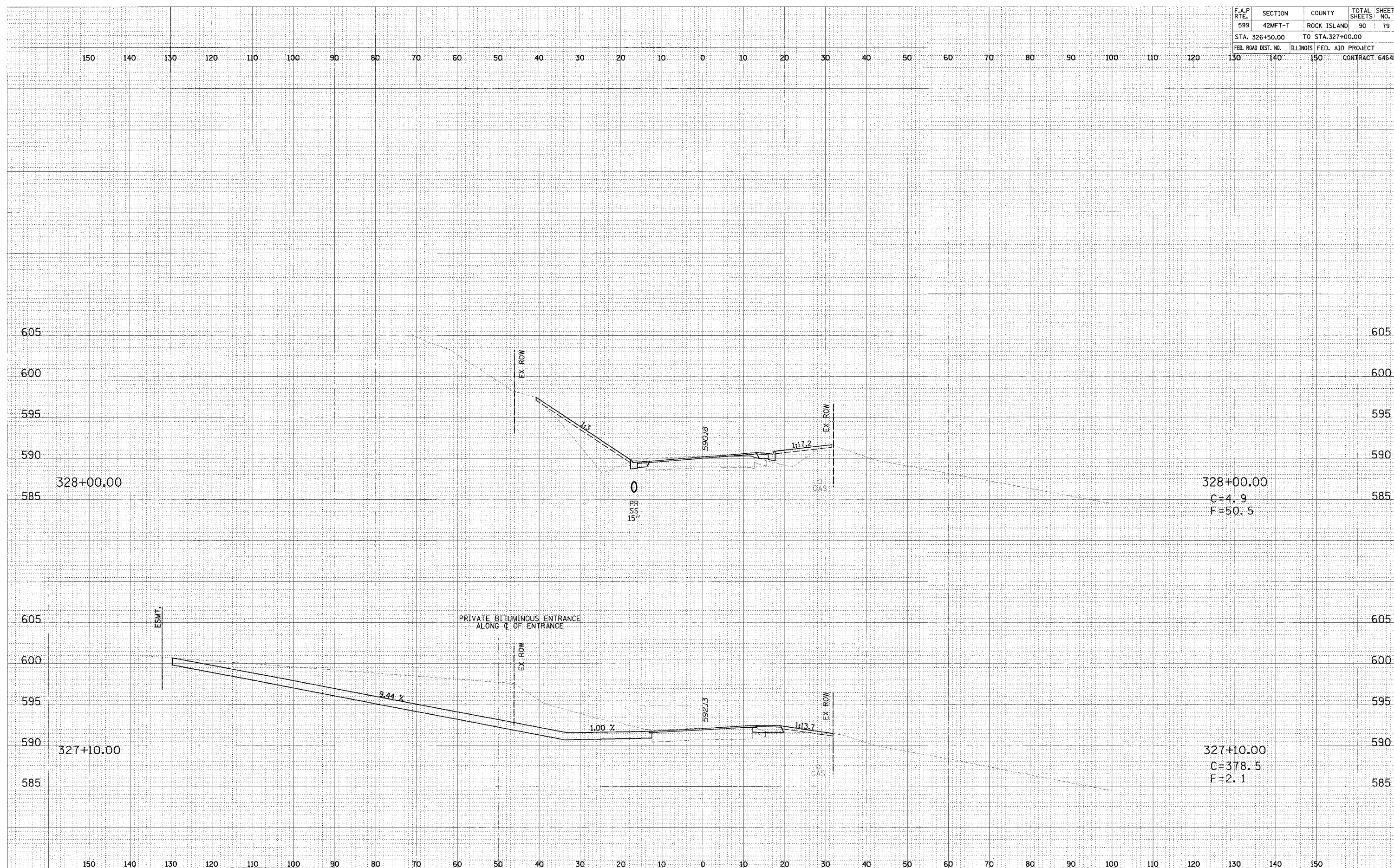
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IL RTE 92 STA 326+50.00 TO STA 327+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-T	ROCK ISLAND	90	79
STA. 326+50.00		TO STA. 327+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
			CONTRACT 64641	

FINAL	SURVEYED	DATE
SAFETY	TEMPERATURE	
NOTE BOOK	AREAS	
NO.	CHECKED	

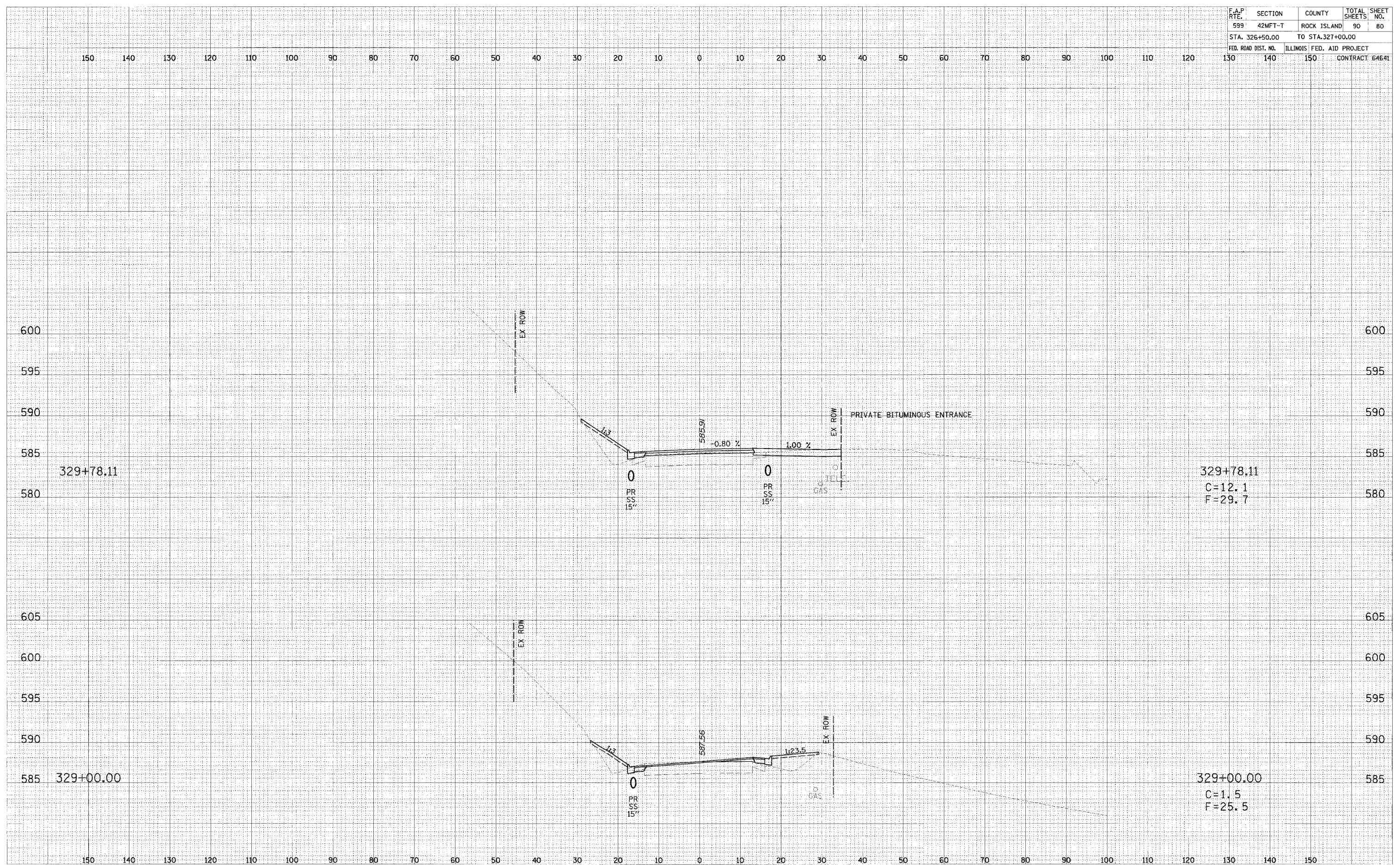
ORIGINAL	SURVEYED	DATE
SAFETY	TEMPERATURE	
NOTE BOOK	AREAS	
NO.	CHECKED	



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-T	ROCK ISLAND	90	80
STA. 326+50.00 TO STA. 327+00.00		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		CONTRACT 64641		

FINAL SURVEY	DATE
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ORIGINAL SURVEY	DATE
BY	
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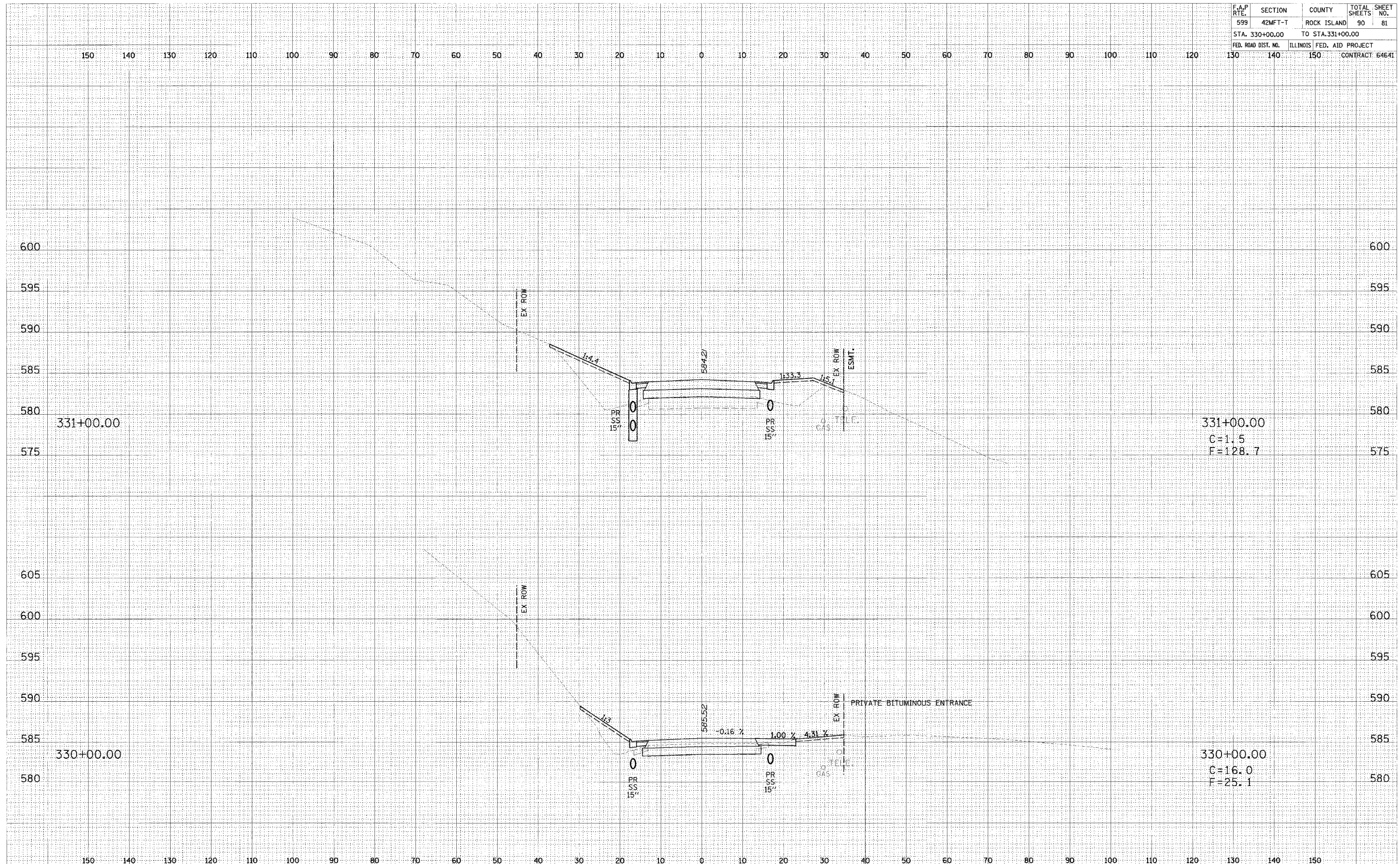
IL RTE 92 STA 329+00.00 TO STA 329+78.11



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-T	ROCK ISLAND	90	81
STA. 330+00.00		TO STA. 331+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
130	140	150	CONTRACT 64641	

H.W.A.L.  
 SURVEY  
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 BY \_\_\_\_\_  
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ORIGINAL  
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 NOTE BOOK  
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 BY \_\_\_\_\_  
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 AREAS CHECKED





F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-T	ROCK ISLAND	90	83
STA. 332+39.97		TO STA. 332+50.12		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT: 64641		

FINAL SURVEY PLOTTED TEMPLATE AREAS CHECKED

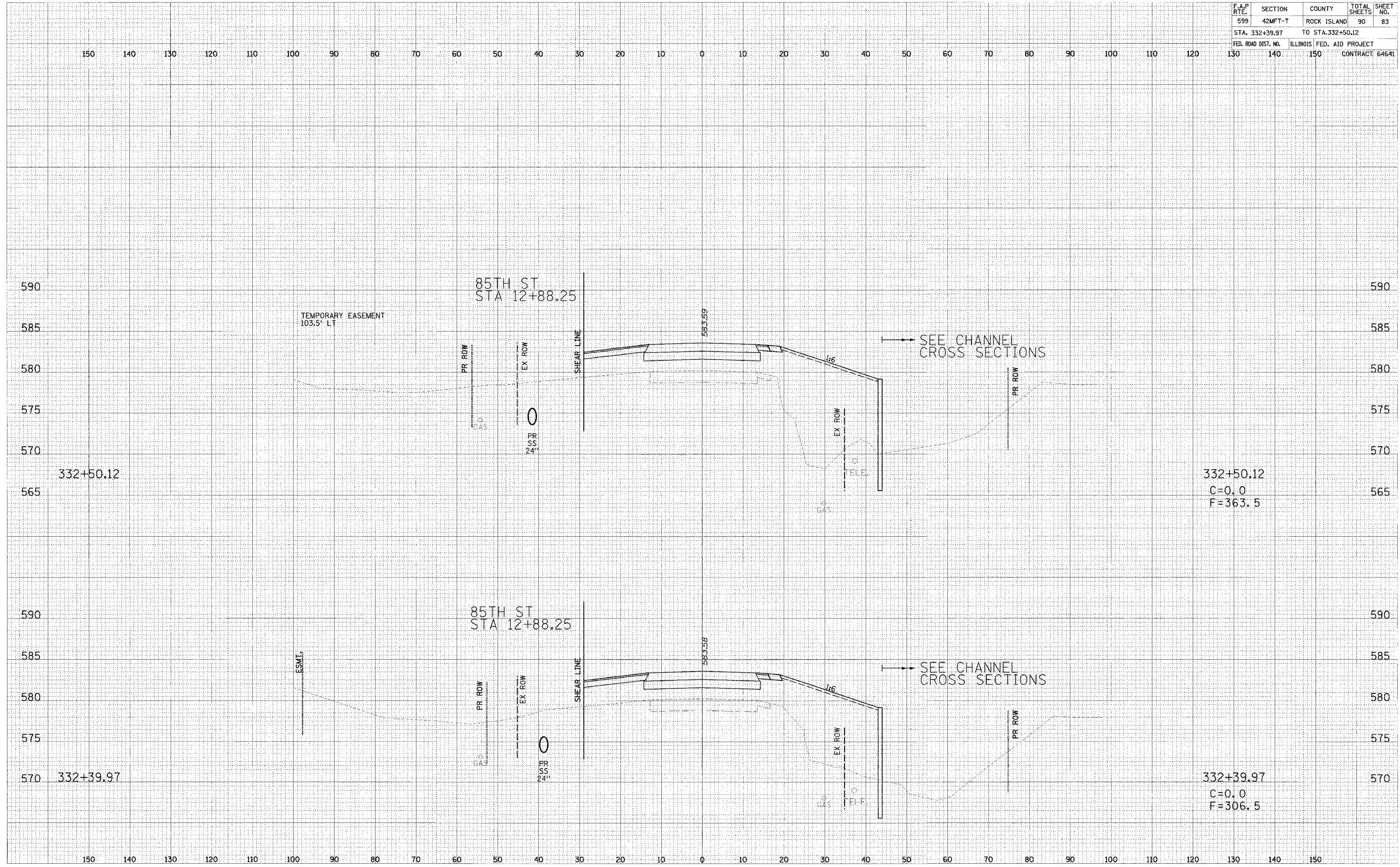
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ORIGINAL SURVEY PLOTTED TEMPLATE AREAS CHECKED

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

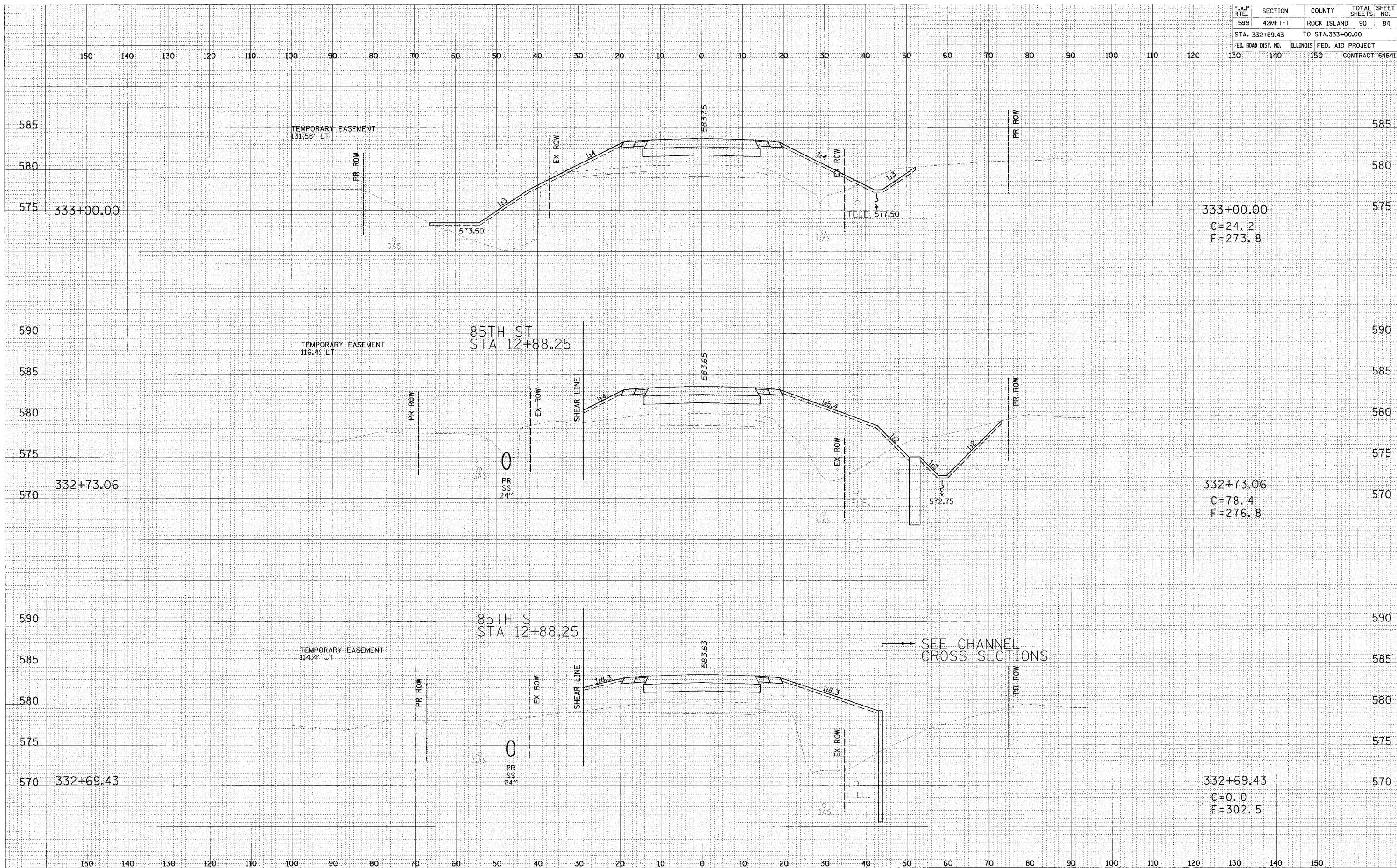
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-T	ROCK ISLAND	90	84
STA. 332+69.43		TO STA. 333+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
		CONTRACT 64641		

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NOTE BOOK	
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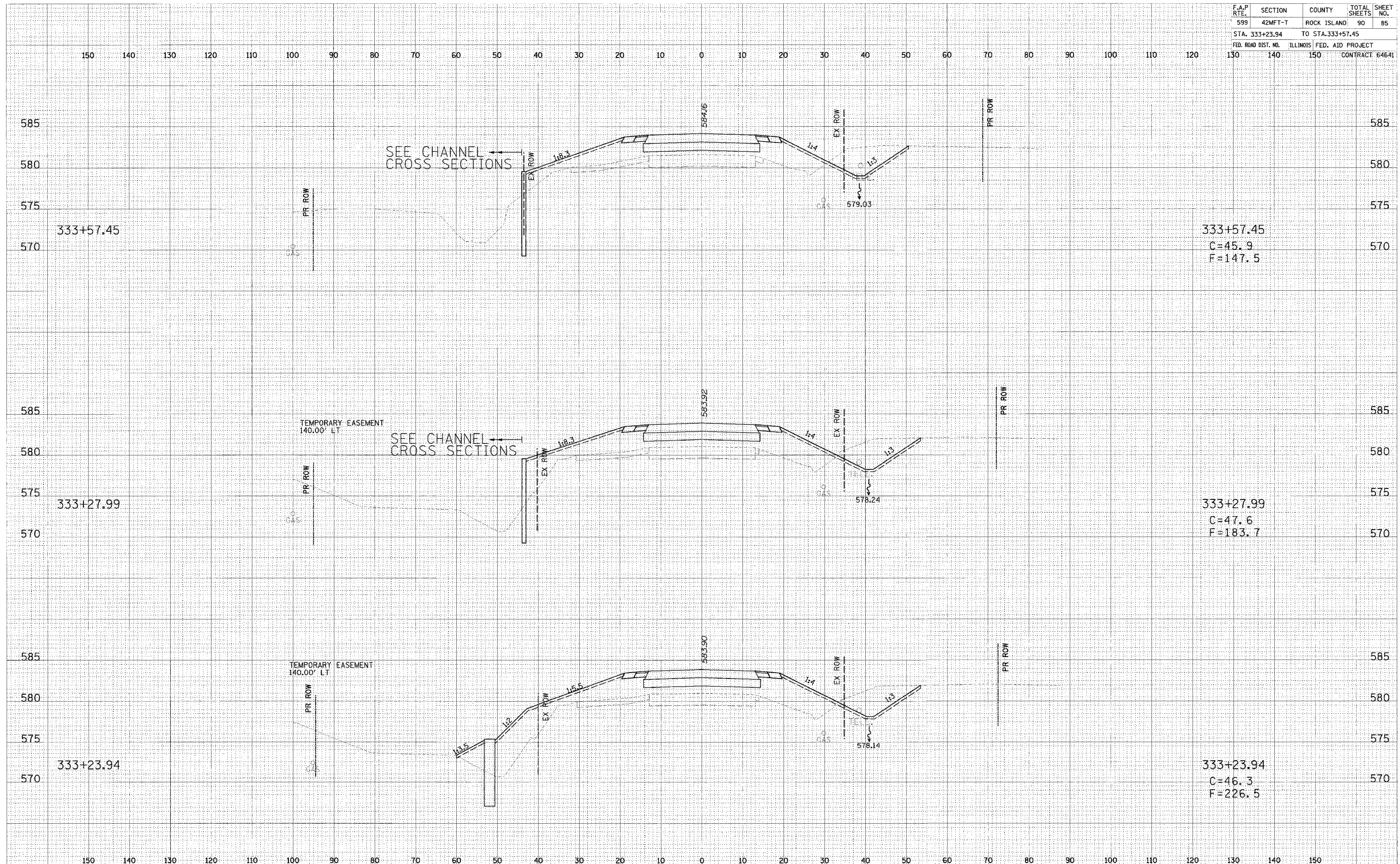


SEE CHANNEL CROSS SECTIONS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-T	ROCK ISLAND	90	85
STA. 333+23.94		TO STA. 333+57.45		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
		150	CONTRACT 64641	

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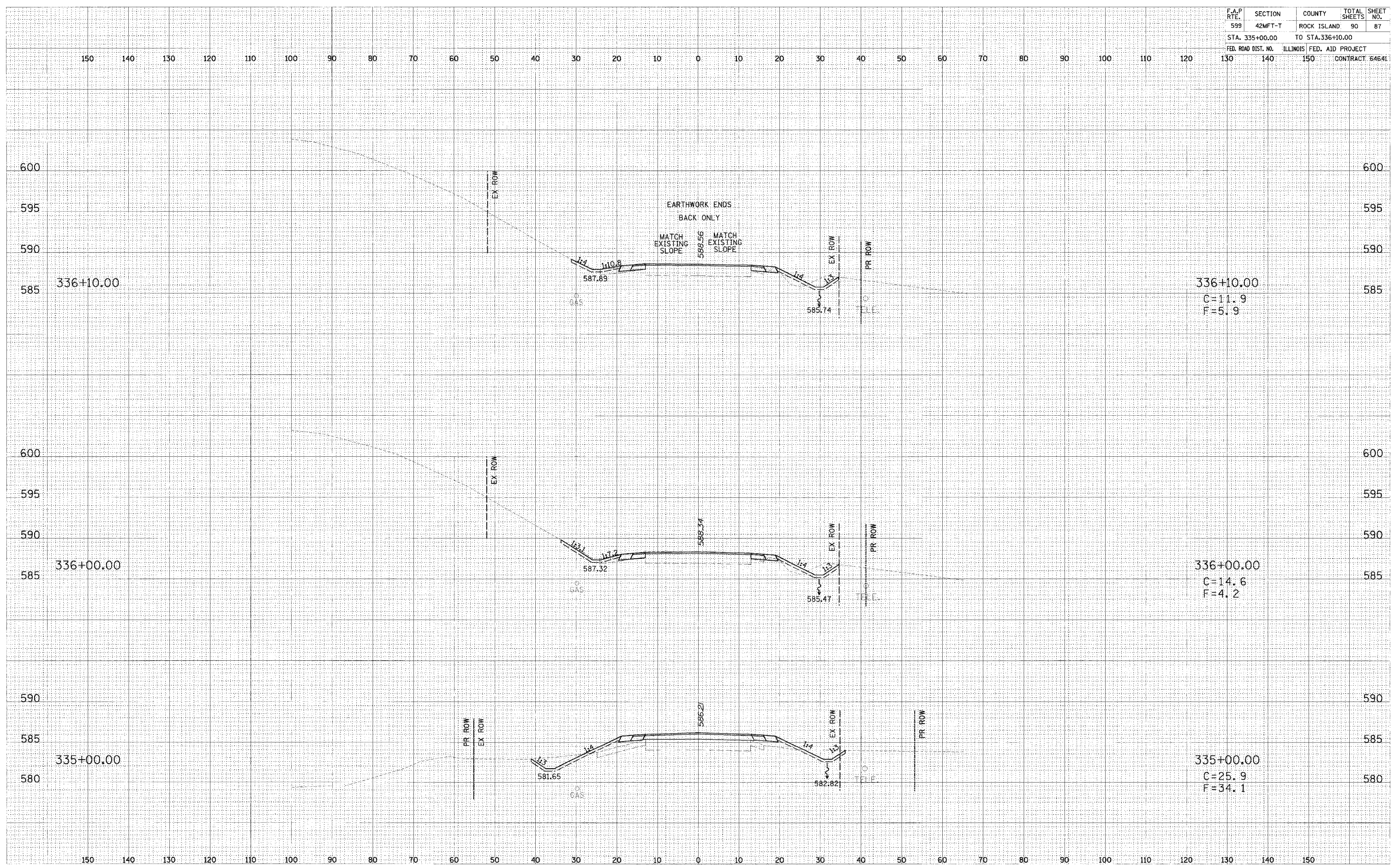




F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-T	ROCK ISLAND	90	87
STA. 335+00.00 TO STA. 336+10.00		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		CONTRACT: 64641		

FINAL	DATE
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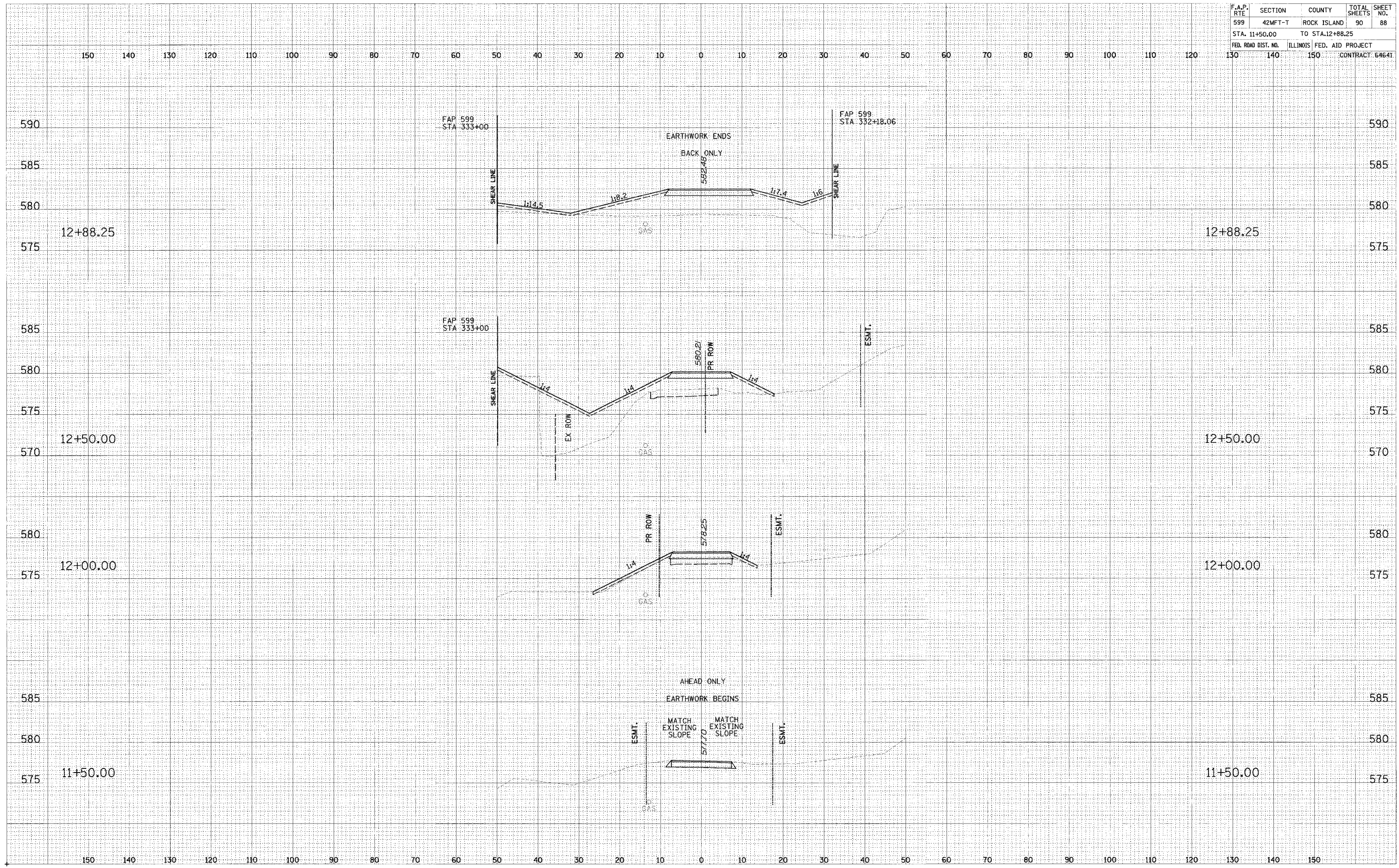


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F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-T	ROCK ISLAND	90	88
STA. 11+50.00		TO STA. 12+88.25		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
130	140	150	CONTRACT: 64641	

FINAL SURVEY	DATE
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ORIGINAL SURVEY	DATE
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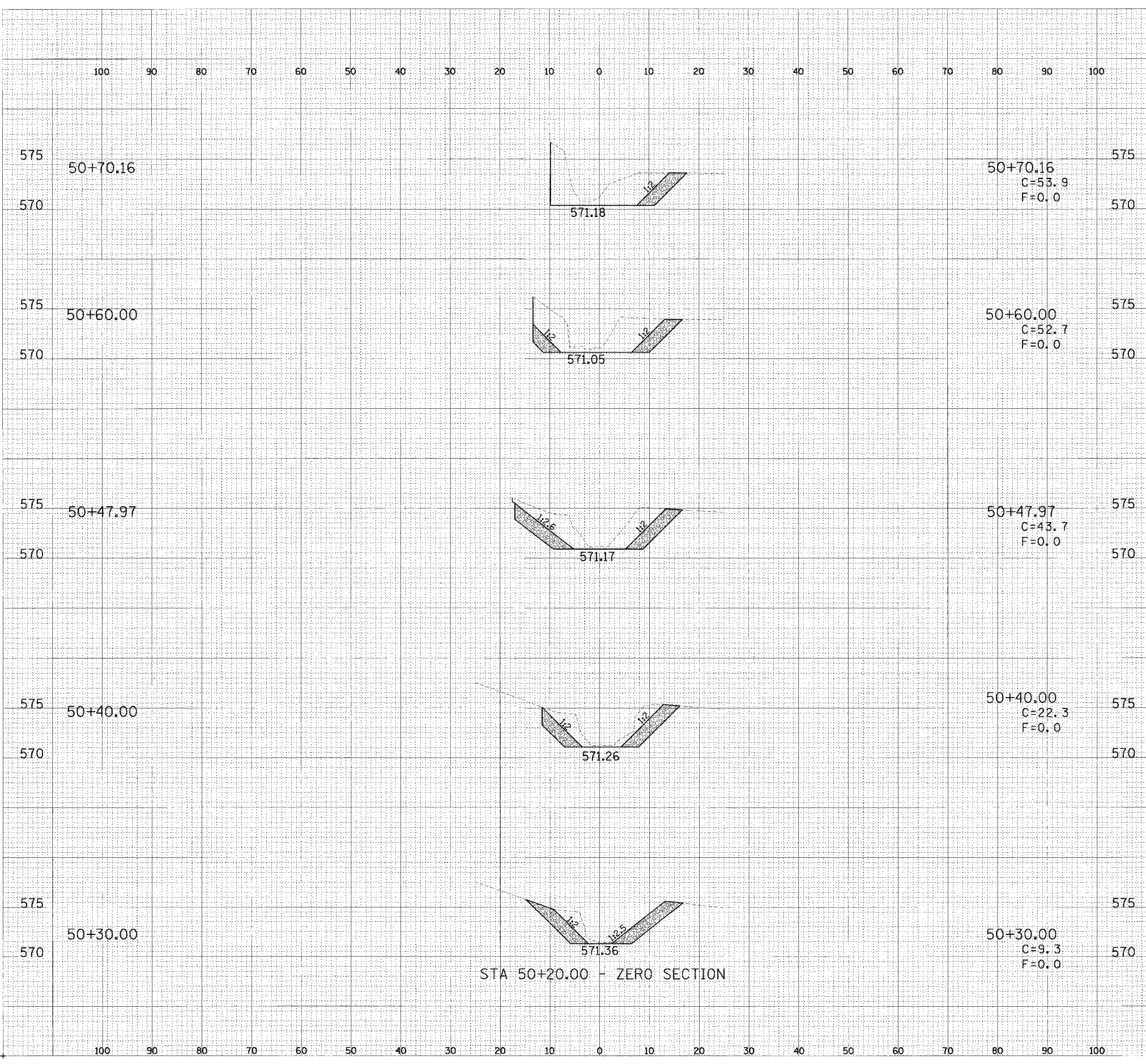




F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-T	ROCK ISLAND	90	89
STA. 50+30.00		TO STA. 50+70.16		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT 64641				

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DATE \_\_\_\_\_ BY \_\_\_\_\_  
 SURVEYED \_\_\_\_\_ PLOTTED \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_ AREA CHECKED \_\_\_\_\_



50+70.16  
 C=53.9  
 F=0.0

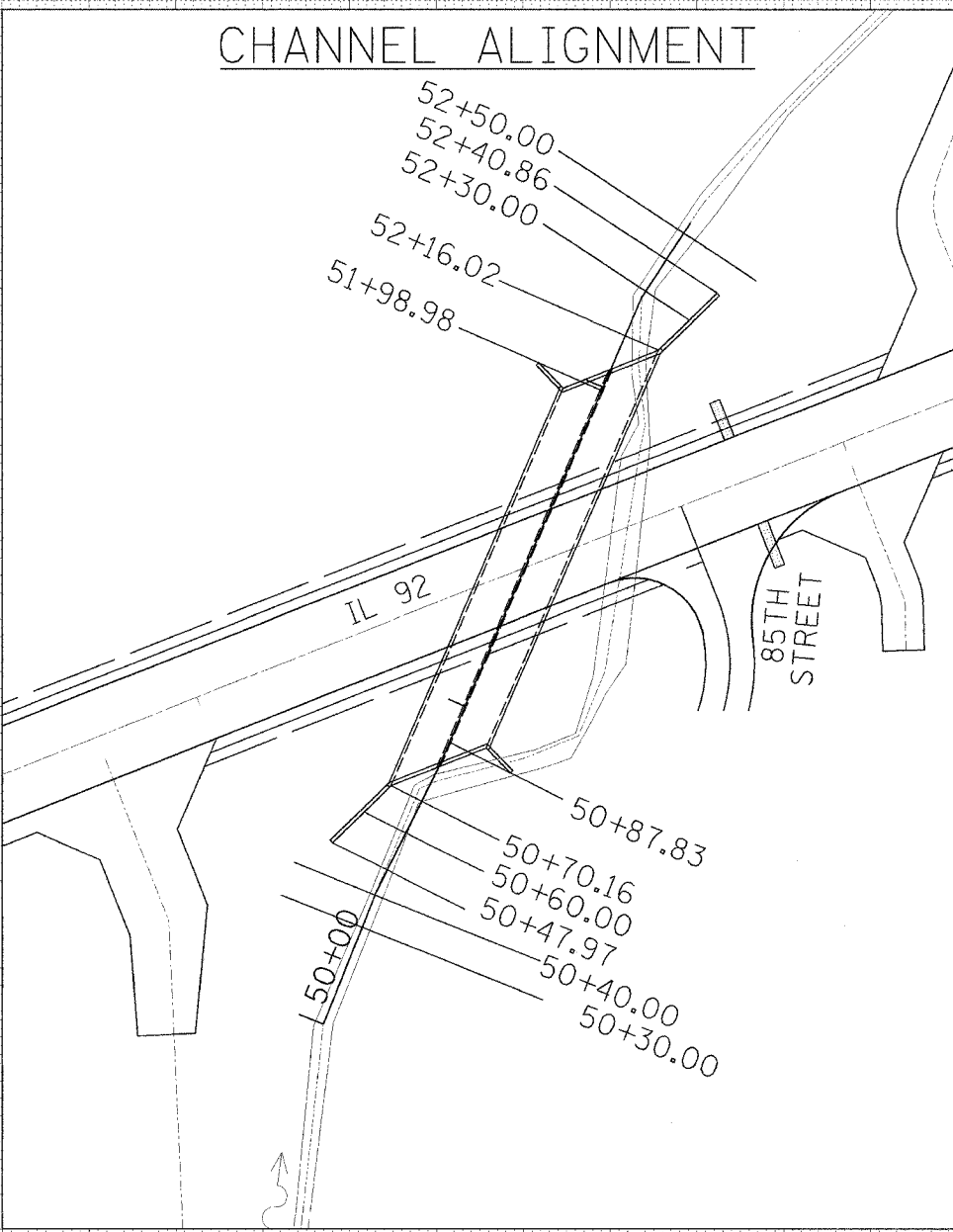
50+60.00  
 C=52.7  
 F=0.0

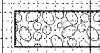
50+47.97  
 C=43.7  
 F=0.0

50+40.00  
 C=22.3  
 F=0.0

50+30.00  
 C=9.3  
 F=0.0

STA 50+20.00 - ZERO SECTION

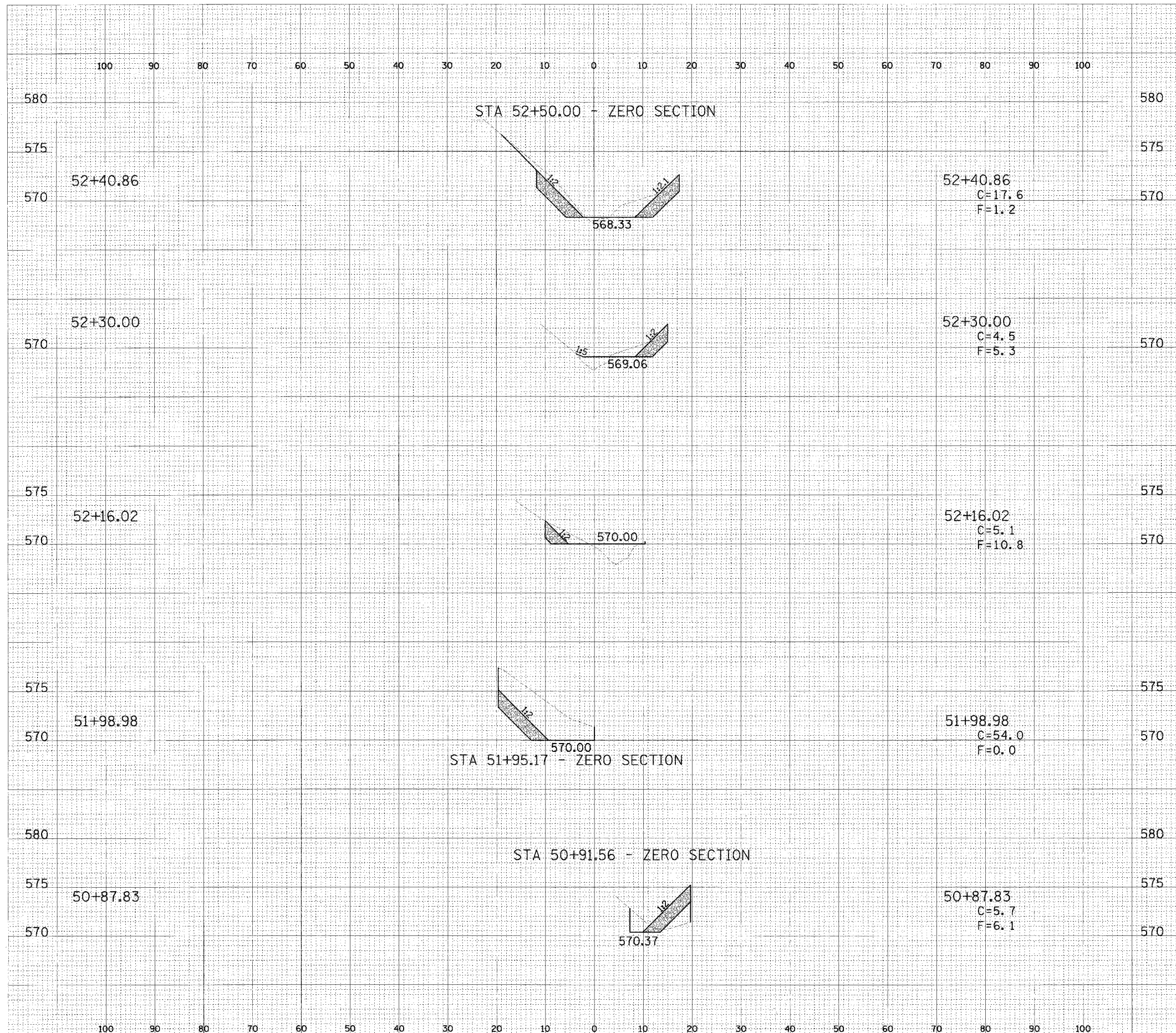


 PROPOSED STONE RIPRAP CLASS A5  
 NOTE: CUT QUANTITIES SHOWN ARE FOR CHANNEL EXCAVATION ONLY.  
 ADDITIONAL EXCAVATION FOR RIPRAP IS INCLUDED IN CONTRACT  
 UNIT PRICE FOR RIPRAP PER ARTICLE 281.07.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	42MFT-T	ROCK ISLAND	90	90
STA. 50+87.83		TO STA. 52+40.86		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT 64641				

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 PROPOSED STONE RIPRAP CLASS A5

NOTE: CUT QUANTITIES SHOWN ARE FOR CHANNEL EXCAVATION ONLY. ADDITIONAL EXCAVATION FOR RIPRAP IS INCLUDED IN CONTRACT UNIT PRICE FOR RIPRAP PER ARTICLE 281.07.