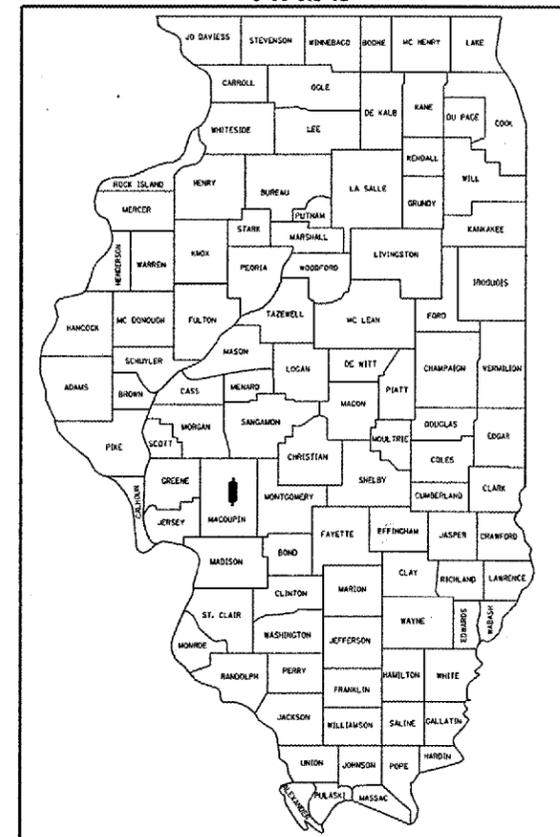


| F.A.O. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|---------|----------|--------------|-----------|
| SBI-4 | F(B-3) | MACOUPIN | 27 | 1 |

CONTRACT #72407

D-96-512-02



LOCATION OF SECTION INDICATED THIS: - [black rectangle] -

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

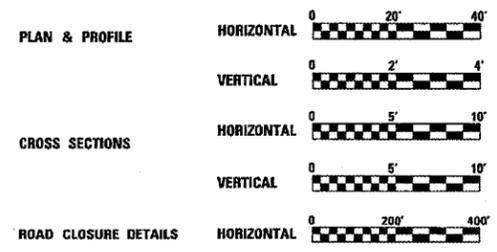
SBI ROUTE 4 (OLD IL 4)
SECTION F(B-3)
PROJECT: *BROS-0117(070)*
MACOUPIN COUNTY
C-96-502-07

INDEX OF SHEETS

| | |
|-------|--|
| 1 | COVER SHEET, INDEX OF SHEETS & STANDARDS |
| 2 | GENERAL NOTES & COMMITMENTS |
| 3-6 | SUMMARY OF QUANTITIES |
| 7,8 | SCHEDULE OF QUANTITIES |
| 9 | TYPICAL SECTIONS |
| 10 | HORIZONTAL TIES |
| 11 | ROAD CLOSURE DETAILS |
| 12 | PLAN & PROFILE SHEET |
| 13-16 | STORM WATER POLLUTION PREVENTION PLAN |
| 17-21 | CULVERT PLANS |
| 22 | BORING LOGS |
| 23 | BUTT JOINT DETAIL |
| 24-27 | CROSS SECTIONS |

STATE STANDARDS

- 000001-04
- 001001-01
- 001006
- 280001-03
- 515001-02
- 630001-07
- 630101-07
- 630301-04
- 635006-02
- 635011-01
- 666001
- 701001-01
- 701006-02
- 702001-06
- 780001-02
- BLR 21-6



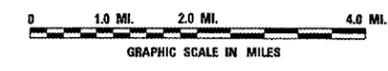
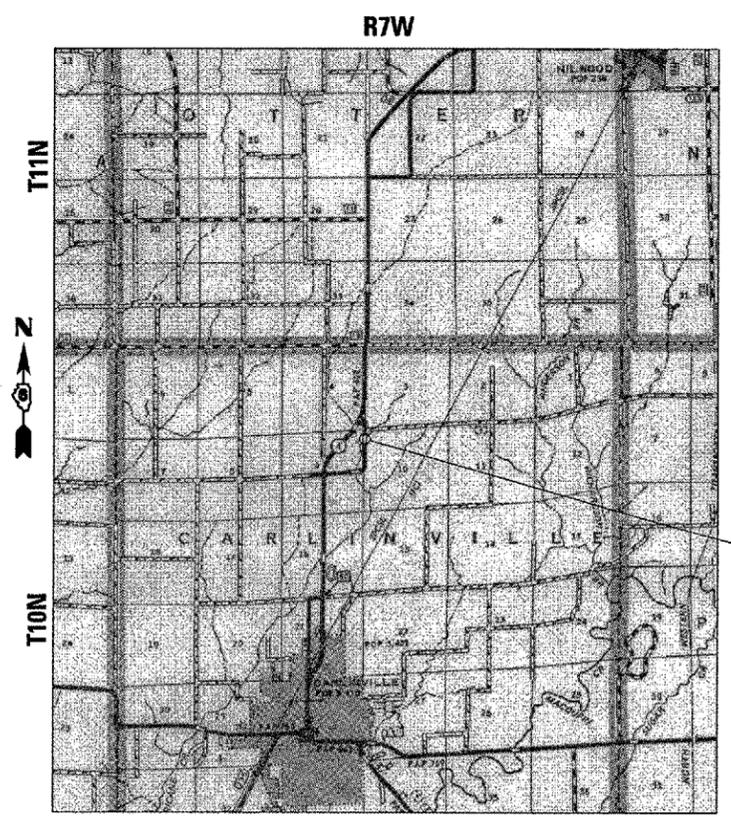
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

CARLINVILLE TOWNSHIP, SECTION 9

ADT: 50(2003); 75(2025)
SU: 3.5%
MU: 0.5%

CONTRACT NO. 72407



GROSS LENGTH OF IMPROVEMENT = 445.0 FEET = 0.084 MILE
NET LENGTH OF IMPROVEMENT = 445.0 FEET = 0.084 MILE

DESCRIPTION OF WORK:
THIS PROJECT CONSISTS OF THE REMOVAL OF S.N. 059-0030 CARRYING SBI ROUTE 4 (OLD IL 4) OVER HURRICANE CREEK, AND CONSTRUCTION OF A DOUBLE 8' X 6' BOX CULVERT (S.N. 059-2503). APPROACH ROADWAY IMPROVEMENTS ARE ALSO INCLUDED.

PROPOSED IMPROVEMENTS:
STATION 2123+95.00 TO
STATION 2128+40.00



SEAL

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED FEB 1, 2007
Christy Reed
DISTRICT ENGINEER

March 23, 2007
Eric E. Harms
ENGINEER OF DESIGN AND ENVIRONMENT

March 23, 2007
Melton R. Seas, P.E.
DIRECTOR, DIVISION OF HIGHWAYS

PREPARED BY:
LIN ENGINEERING, LTD.
CHATHAM, ILLINOIS 62629
(217) 483-4168

Fred M. Lin
FRED M. LIN, P.E.
ILLINOIS REGISTERED ENGINEER NO. 062-056704
REGISTRATION EXPIRES NOV. 30, 2007

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

PROJECT ENGINEER: JOHN NEGANGARD (217) 782-6990
SQUAD LEADER: MIKE HIRSCH (217) 782-8693

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

80% FED. / 20% STATE

SBI ROUTE 4 (OLD IL 4) OVER HURRICANE CREEK

CONSTRUCTION
TYPE CODE

SUMMARY OF QUANTITIES

STRUCT ROADWAY

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | X028-2A | X028-2A |
|----------|---------------------------------------|-------|----------------|---------|---------|
| 20100110 | TREE REMOVAL (6 TO 15 UNITS DIAMETER) | UNIT | 62 | | 62 |
| 20100210 | TREE REMOVAL (OVER 15 UNITS DIAMETER) | UNIT | 24 | | 24 |
| 20200100 | EARTH EXCAVATION | CU YD | 605 | | 605 |
| 25000200 | SEEDING, CLASS 2 | ACRE | 0.5 | | 0.5 |
| 25000400 | NITROGEN FERTILIZER NUTRIENT | POUND | 45 | | 45 |
| 25000500 | PHOSPHOROUS FERTILIZER NUTRIENT | POUND | 45 | | 45 |
| 25000600 | POTASSIUM FERTILIZER NUTRIENT | POUND | 45 | | 45 |
| 25000700 | AGRICULTURAL GROUND LIMESTONE | TON | 1.0 | | 1.0 |
| 25100115 | MULCH, METHOD 2 | ACRE | 0.5 | | 0.5 |
| 25101005 | HEAVY DUTY EXCELSIOR BLANKET | SQ YD | 160 | | 160 |

| REVISIONS | |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES

SCALE: NONE
DATE: 08/2004

DRAWN BY: FML
CHECKED BY: JH

| | | | | |
|---------------------|----------|------------------|-----------------|--------------|
| F.A.D. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| SBI-4 | F(B-3) | MACOUPIN | 27 | 4 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |
| CONTRACT #72407 | | | | |

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

80% FED. / 20% STATE

SBI ROUTE 4 (OLD IL 4) OVER HURRICANE CREEK

CONSTRUCTION
TYPE CODE

SUMMARY OF QUANTITIES

STRUCT ROADWAY

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | X028-2A | X028-2A |
|----------|---|-------|-------------------|---------|---------|
| 28000250 | TEMPORARY EROSION CONTROL SEEDING | POUND | 100 | | 100 |
| 28001000 | AGGREGATE (EROSION CONTROL) | TON | 30 | | 30 |
| 28100707 | STONE DUMPED RIPRAP, CLASS A4 | SQ YD | 640 | 640 | |
| 28200200 | FILTER FABRIC | SQ YD | 640 | 640 | |
| 35501316 | HOT-MIX ASPHALT BASE COURSE, 8" | SQ YD | 223 | | 223 |
| 35600708 | HOT-MIX ASPHALT BASE COURSE WIDENING, 8" | SQ YD | 110 | | 110 |
| 40600200 | BITUMINOUS MATERIALS (PRIME COAT) | TON | 0.6 | | 0.6 |
| 40600625 | LEVELING BINDER (MACHINE METHOD), N50 | TON | 44 | | 44 |
| 40600985 | PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT | SQ YD | 180 | | 180 |
| 40603310 | HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 | TON | 66 | | 66 |

| REVISIONS | |
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ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE
DATE: 08/2004

DRAWN BY: FML
CHECKED BY: JH

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|---------------------|---------------------------|-----------------|--------------|-----------|
| F.A.D. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| SBI-4 | F(B-3) | MACOUPIN | 27 | 5 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT | CONTRACT #72407 | | |

| ILLINOIS DEPARTMENT OF TRANSPORTATION | | | | | |
|---|---|-------|----------------|------------------------|---------|
| SUMMARY OF QUANTITIES | | | | 80% FED. / 20% STATE | |
| SBI ROUTE 4 (OLD IL 4) OVER HURRICANE CREEK | | | | CONSTRUCTION TYPE CODE | |
| SUMMARY OF QUANTITIES | | | | STRUCT | ROADWAY |
| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | X028-2A | X028-2A |
| 44000100 | PAVEMENT REMOVAL | SQ YD | 223 | | 223 |
| 44000700 | APPROACH SLAB REMOVAL | SQ YD | 101 | | 101 |
| 44200094 | PAVEMENT PATCHING, TYPE II, 8" | SQ YD | 100 | | 100 |
| 48101200 | AGGREGATE SHOULDERS, TYPE B | TON | 143.8 | | 143.8 |
| 50100100 | REMOVAL OF EXISTING STRUCTURES | EACH | 1 | 1 | |
| 51500100 | NAME PLATES | EACH | 1 | 1 | |
| 54001000 | BOX CULVERT END SECTIONS | EACH | 2 | 2 | |
| 54010806 | PRECAST CONCRETE BOX CULVERT 8' X 6' | FOOT | 84 | 84 | |
| * 63000000 | STEEL PLATE BEAM GUARD RAIL, TYPE A | FOOT | 275 | | 275 |
| * 63000025 | STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES | FOOT | 75 | | 75 |

* SPECIALTY ITEMS

| REVISIONS | | ILLINOIS DEPARTMENT OF TRANSPORTATION |
|-----------|------|---------------------------------------|
| NAME | DATE | |
| | | SUMMARY OF QUANTITIES |
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SCALE: NONE
DATE: 08/2004

DRAWN BY: FML
CHECKED BY: JH

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUMMARY OF QUANTITIES

80% FED. / 20% STATE

SBI ROUTE 4 (OLD IL 4) OVER HURRICANE CREEK

CONSTRUCTION
TYPE CODE

SUMMARY OF QUANTITIES

STRUCT ROADWAY

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | X028-2A | X028-2A |
|------------|--|--------|----------------|---------|---------|
| * 63100167 | TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT) | EACH | 4 | | 4 |
| 66600105 | FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS | EACH | 8 | | 8 |
| 67000400 | ENGINEER'S FIELD OFFICE, TYPE A | CAL MO | 6 | | 6 |
| 67100100 | MOBILIZATION | L SUM | 1 | | 1 |
| 70101830 | TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21 | L SUM | 1 | | 1 |
| * 78001120 | PAINT PAVEMENT MARKING - LINE 5" | FOOT | 1002 | | 1002 |
| * 78200410 | GUARDRAIL MARKERS, TYPE A | EACH | 12 | | 12 |
| * 78201000 | TERMINAL MARKER - DIRECT APPLIED | EACH | 4 | | 4 |
| X0324118 | GRANULAR CULVERT BACKFILL | CU YD | 250 | 250 | |

* SPECIALTY ITEMS

| REVISIONS | |
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| NAME | DATE |
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ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE
DATE: 08/2004

DRAWN BY: FML
CHECKED BY: JH

20100110 TREE REMOVAL (6 TO 15 UNITS DIAMETER)

| LOCATION | | QUANTITY (UNIT) |
|------------|----------|-----------------|
| STATION | OFFSET | |
| 2125+52.66 | 22.47 LT | 8 |
| 2125+61.82 | 28.13 LT | 10 |
| 2125+67.38 | 22.44 LT | 8 |
| 2125+68.45 | 22.57 LT | 12 |
| 2126+13.62 | 32.25 LT | 8 |
| 2126+15.77 | 31.94 LT | 8 |
| 2126+21.25 | 32.40 LT | 8 |
| TOTAL = | | 62 |

25000700 AGRICULTURAL GROUND LIMESTONE

| LOCATION | | QUANTITY (TON) |
|------------------------------|--|----------------|
| STATION | | |
| 2123+95.00 TO 2126+00.00 RT. | | 0.28 |
| 2126+00.00 TO 2127+00.00 RT. | | 0.10 |
| 2127+00.00 TO 2128+40.00 RT. | | 0.12 |
| 2123+95.00 TO 2125+50.00 LT. | | 0.16 |
| 2125+50.00 TO 2126+50.00 LT. | | 0.10 |
| 2126+50.00 TO 2128+40.00 LT. | | 0.26 |
| TOTAL = | | 1.0 |

40600985 PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT

| LOCATION | | QUANTITY (SQ. YD.) |
|--------------------------|--|--------------------|
| STATION | | |
| 2123+95.00 TO 2124+25.00 | | 90.0 |
| 2128+10.00 TO 2128+40.00 | | 90.0 |
| TOTAL = | | 180.0 |

54001000 BOX CULVERT END SECTIONS

| LOCATION | | QUANTITY (EACH) |
|------------|--------|-----------------|
| STATION | OFFSET | |
| 2126+04.75 | LT. | 1 |
| 2126+45.41 | RT. | 1 |
| TOTAL = | | 2 |

20100210 TREE REMOVAL (OVER 15 UNITS DIAMETER)

| LOCATION | | QUANTITY (UNIT) |
|------------|----------|-----------------|
| STATION | OFFSET | |
| 2125+71.71 | 42.29 LT | 24 |
| TOTAL = | | 24 |

25100115 MULCH METHOD 2

| LOCATION | | QUANTITY (ACRE) |
|------------------------------|--|-----------------|
| STATION | | |
| 2123+95.00 TO 2126+00.00 RT. | | 0.13 |
| 2126+00.00 TO 2127+00.00 RT. | | 0.05 |
| 2127+00.00 TO 2128+40.00 RT. | | 0.06 |
| 2123+95.00 TO 2125+50.00 LT. | | 0.08 |
| 2125+50.00 TO 2126+50.00 LT. | | 0.05 |
| 2126+50.00 TO 2128+40.00 LT. | | 0.13 |
| TOTAL = | | 0.50 |

44000100 PAVEMENT REMOVAL

| LOCATION | | QUANTITY (SQ. YD.) |
|--------------------|--|--------------------|
| STATION | | |
| 2125+75 TO 2126+75 | | 223.0 |
| TOTAL = | | 223.0 |

54010806 PRECAST CONCRETE BOX CULVERT 8' X 6'

| LOCATION | | QUANTITY (FOOT) |
|------------|--|-----------------|
| STATION | | |
| 2126+25.00 | | 84 |
| TOTAL = | | 84 |

25000400 NITROGEN FERTILIZER NUTRIENT
25000500 PHOSPHOROUS FERTILIZER NUTRIENT
25000600 POTASSIUM FERTILIZER NUTRIENT

| LOCATION | | QUANTITY (POUND) |
|------------------------------|--|------------------|
| STATION | | |
| 2123+95.00 TO 2126+00.00 RT. | | 11.7 |
| 2126+00.00 TO 2127+00.00 RT. | | 4.5 |
| 2127+00.00 TO 2128+40.00 RT. | | 5.4 |
| 2123+95.00 TO 2125+50.00 LT. | | 7.2 |
| 2125+50.00 TO 2126+50.00 LT. | | 4.5 |
| 2126+50.00 TO 2128+40.00 LT. | | 11.7 |
| TOTAL = | | 45.0 |

25101005 HEAVY DUTY EXCELSIOR BLANKET

| LOCATION | | QUANTITY (SQ. YD.) |
|------------------------------|--|--------------------|
| STATION | | |
| 2125+50.00 TO 2126+50.00 LT. | | 72.7 |
| 2126+00.00 TO 2127+00.00 RT. | | 87.3 |
| TOTAL = | | 160.0 |

44000700 APPROACH SLAB REMOVAL

| LOCATION | | QUANTITY (SQ. YD.) |
|--------------------|--|--------------------|
| STATION | | |
| 2125+80 TO 2125+95 | | 34.0 |
| 2126+25 TO 2126+55 | | 67.0 |
| TOTAL = | | 101.0 |

63000000 STEEL PLATE BEAM GUARD RAIL, TYPE A

| LOCATION | | QUANTITY (FOOT) |
|------------------------------|--|-----------------|
| STATION | | |
| 2125+35.00 TO 2126+22.50 RT. | | 87.5 |
| 2126+80.00 TO 2127+10.00 RT. | | 50.0 |
| 2125+40.00 TO 2125+90.00 LT. | | 50.0 |
| 2126+27.50 TO 2127+15.00 LT. | | 87.5 |
| TOTAL = | | 275.0 |

20200100 EARTH EXCAVATION

| LOCATION | EARTH EXCAVATION | EARTH EXCAVATION ADJUSTED FOR SHRINKAGE | EMBANKMENT | EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) | |
|--------------------------|------------------|---|------------|---|--------|
| STATION | CU. YD. | CU. YD. | CU. YD. | CU. YD. | |
| 2123+95.00 TO 2125+50.00 | 310.0 | 232.5 | 62.7 | +169.8 | |
| 2125+50.00 TO 2127+00.00 | 135.0 | 101.3 | 93.2 | +8.0 | |
| 2127+00.00 TO 2128+40.00 | 160.0 | 120.0 | 89.0 | +31.0 | |
| TOTAL = | | 605.0 | 453.8 | 244.9 | +208.8 |

48101200 AGGREGATE SHOULDERS, TYPE B

| LOCATION | | QUANTITY (TON) |
|------------------------------|--|----------------|
| STATION | | |
| 2123+95.00 TO 2124+75.00 RT. | | 9.8 |
| 2124+75.00 TO 2127+70.00 RT. | | 52.0 |
| 2127+70.00 TO 2128+40.00 RT. | | 8.8 |
| 2123+95.00 TO 2124+80.00 LT. | | 11.4 |
| 2124+80.00 TO 2127+75.00 LT. | | 52.0 |
| 2127+75.00 TO 2128+40.00 LT. | | 9.8 |
| TOTAL = | | 143.8 |

63000025 STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURE

| LOCATION | | QUANTITY (FOOT) |
|------------------------------|--|-----------------|
| STATION | | |
| 2126+22.50 TO 2126+80.00 RT. | | 37.5 |
| 2125+90.00 TO 2126+27.50 LT. | | 37.5 |
| TOTAL = | | 75.0 |

25000200 SEEDING, CLASS 2

| LOCATION | | QUANTITY (ACRE) |
|------------------------------|--|-----------------|
| STATION | | |
| 2123+95.00 TO 2126+00.00 RT. | | 0.13 |
| 2126+00.00 TO 2127+00.00 RT. | | 0.05 |
| 2127+00.00 TO 2128+40.00 RT. | | 0.06 |
| 2123+95.00 TO 2125+50.00 LT. | | 0.08 |
| 2125+50.00 TO 2126+50.00 LT. | | 0.05 |
| 2126+50.00 TO 2128+40.00 LT. | | 0.13 |
| TOTAL = | | 0.50 |

28100707 STONE DUMPED RIPRAP, CLASS A4
28200200 FILTER FABRIC

| LOCATION | | QUANTITY (SQ. YD.) |
|------------------------------|--|--------------------|
| STATION | | |
| 2125+50.00 TO 2126+50.00 LT. | | 308.7 |
| 2126+00.00 TO 2127+18.77 RT. | | 331.3 |
| TOTAL = | | 640.0 |

50100100 REMOVAL OF EXISTING STRUCTURES

| LOCATION | | QUANTITY (EACH) |
|------------|--|-----------------|
| STATION | | |
| 2126+10.00 | | 1 |
| TOTAL = | | 1 |

63100167 TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)

| LOCATION | | QUANTITY (EACH) |
|------------------------------|--|-----------------|
| STATION | | |
| 2124+85.00 TO 2125+35.00 RT. | | 1 |
| 2124+90.00 TO 2125+40.00 LT. | | 1 |
| 2127+10.00 TO 2127+80.00 RT. | | 1 |
| 2127+15.00 TO 2127+65.00 LT. | | 1 |
| TOTAL = | | 4 |

40600200 BITUMINOUS MATERIALS (PRIME COAT)

| LOCATION | | QUANTITY (TON) |
|--------------------------|--|----------------|
| STATION | | |
| 2124+45.00 TO 2127+90.00 | | 0.6 |
| TOTAL = | | 0.6 |

51500100 NAME PLATES

| LOCATION | | QUANTITY (EACH) |
|----------|--|-----------------|
| JOB SITE | | 1 |
| TOTAL = | | 1 |

| REVISIONS | |
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ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES

SCALE: NONE
DATE: 08/2004

DRAWN BY: FML
CHECKED BY: JH

66600105 FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS

| LOCATION | | QUANTITY (EACH) |
|------------|----------|-----------------|
| STATION | OFFSET | |
| 2124+00.00 | 30.00 RT | 1 |
| 2124+00.00 | 25.00 LT | 1 |
| 2125+50.00 | 70.00 LT | 1 |
| 2126+50.00 | 70.00 RT | 1 |
| 2126+50.00 | 70.00 LT | 1 |
| 2127+50.00 | 70.00 RT | 1 |
| 2128+50.00 | 30.00 RT | 1 |
| 2128+50.00 | 25.00 LT | 1 |
| TOTAL = | | 8 |

67000400 ENGINEER'S FIELD OFFICE, TYPE A

| LOCATION | QUANTITY (CAL. MONTH) |
|----------|-----------------------|
| JOB SITE | 6 |
| TOTAL = | 6 |

67100100 MOBILIZATION

| LOCATION | QUANTITY (L SUM) |
|----------|------------------|
| JOB SITE | 1 |
| TOTAL = | 1 |

70101830 TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21

| LOCATION | QUANTITY (L SUM) |
|----------|------------------|
| JOB SITE | 1 |
| TOTAL = | 1 |

78001120 PAINT PAVEMENT MARKING - LINE 5'

| LOCATION | QUANTITY (FOOT) |
|---------------------------------|-----------------|
| STATION | |
| 2123+95.00 TO 2128+40.00 CENTER | 112.0 |
| 2123+95.00 TO 2128+40.00 LEFT | 445.0 |
| 2123+95.00 TO 2128+40.00 RIGHT | 445.0 |
| TOTAL = | 1002.0 |

78200410 GUARDRAIL MARKERS, TYPE A

| LOCATION | | QUANTITY (EACH) |
|------------|--------|-----------------|
| STATION | OFFSET | |
| 2124+85.00 | RT | 1 |
| 2125+40.00 | | 1 |
| 2125+95.00 | | 1 |
| 2126+50.00 | | 1 |
| 2127+05.00 | | 1 |
| 2127+60.00 | LT | 1 |
| 2124+90.00 | | 1 |
| 2125+45.00 | | 1 |
| 2126+00.00 | | 1 |
| 2126+55.00 | | 1 |
| 2127+10.00 | 1 | |
| 2127+65.00 | 1 | |
| TOTAL = | | 12 |

78201000 TERMINAL MARKER - DIRECT APPLIED

| LOCATION | | QUANTITY (EACH) |
|------------|----------|-----------------|
| STATION | OFFSET | |
| 2124+85.00 | 16.00 RT | 1 |
| 2124+90.00 | 16.00 LT | 1 |
| 2127+60.00 | 16.00 RT | 1 |
| 2127+65.00 | 16.00 LT | 1 |
| TOTAL = | | 4 |

35501316 HOT-MIX ASPHALT BASE COURSE, 8"

| LOCATION | QUANTITY (SQ. YD.) |
|--------------------------|--------------------|
| STATION | |
| 2125+75.00 TO 2126+75.00 | 223.0 |
| TOTAL = | 223.0 |

35600708 HOT-MIX ASPHALT BASE COURSE WIDENING, 8"

| LOCATION | QUANTITY (SQ. YD.) |
|--------------------------|--------------------|
| STATION | |
| 2124+45.00 TO 2125+75.00 | 58.0 |
| 2126+75.00 TO 2127+90.00 | 52.0 |
| TOTAL = | 110.0 |

40603310 HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50

| LOCATION | QUANTITY (TON) |
|--------------------------|----------------|
| STATION | |
| 2124+45.00 TO 2124+90.00 | 8.7 |
| 2124+90.00 TO 2127+45.00 | 48.6 |
| 2127+45.00 TO 2127+90.00 | 8.7 |
| TOTAL = | 66.0 |

40600625 LEVELING BINDER (MACHINE METHOD), N50

| LOCATION | QUANTITY (TON) |
|--------------------------|----------------|
| STATION | |
| 2124+45.00 TO 2124+90.00 | 5.8 |
| 2124+90.00 TO 2127+45.00 | 32.4 |
| 2127+45.00 TO 2127+90.00 | 5.8 |
| TOTAL = | 44.0 |

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ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULES OF QUANTITIES

SCALE: NONE
DATE: 08/2004

DRAWN BY: FML
CHECKED BY: JH

BENCHMARKS: CHISELED SQUARE ON TOP N.E. HEADWALL OF 4' x 3" BOX CULVERT, 500'± SOUTH OF STR. #059-0030.
STATION 2134+29.69; OFFSET = 15.39' LT.; ELEV. = 627.95

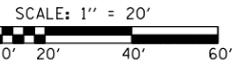
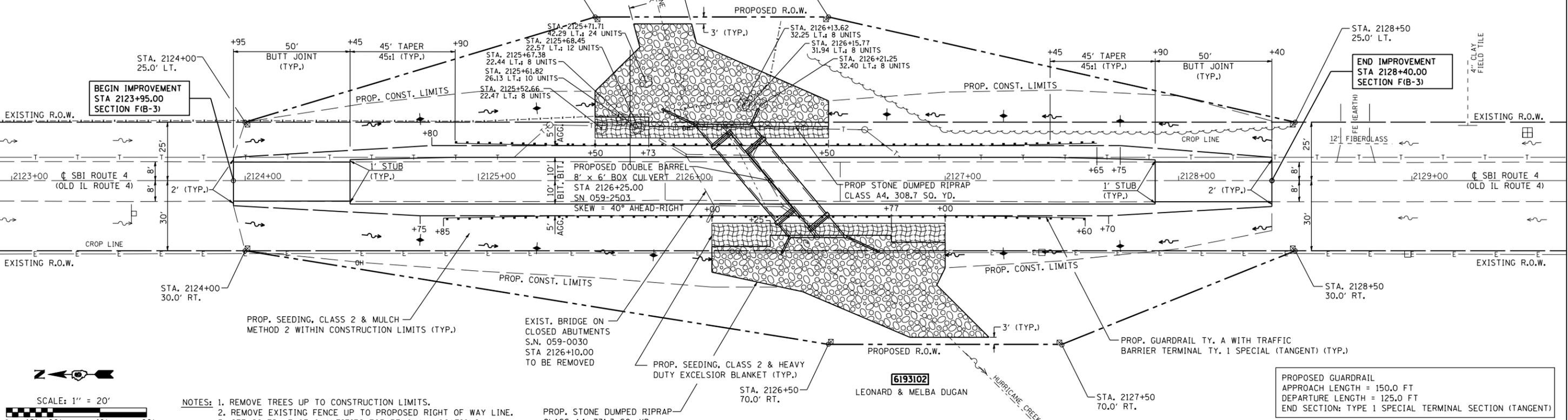
SEC. 9, TWP. 10N, R 7W, 3RD PM

SBI ROUTE 4 (OLD IL. RTE. 4)
SECTION: F(B-3)
MACOUPIN COUNTY
SN 059-0030 (EXIST.)
SN 059-2503 (PROP.)
OVER HURRICANE CREEK

| F.A.D. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|---------|--------------------|------------------|-----------|
| SBI-4 | F(B-3) | MACOUPIN | 27 | 12 |
| STA. 2123+10.00 | | TO STA. 2129+50.00 | | |
| FED. ROAD DIST. NO. | | ILLINOIS | FED. AID PROJECT | |
| CONTRACT #72407 | | | | |

R.R. SPIKE IN THIRD P.P. NORTH OF CURVE ON W. SIDE OF OLD RTE. #4.
STATION 2141+22.63; OFFSET = 31.13' RT.; ELEV. = 630.90
STATION EQUATION: STA. 2136+51.32 (BK.) = STA. 2137+36.64 (AH.)

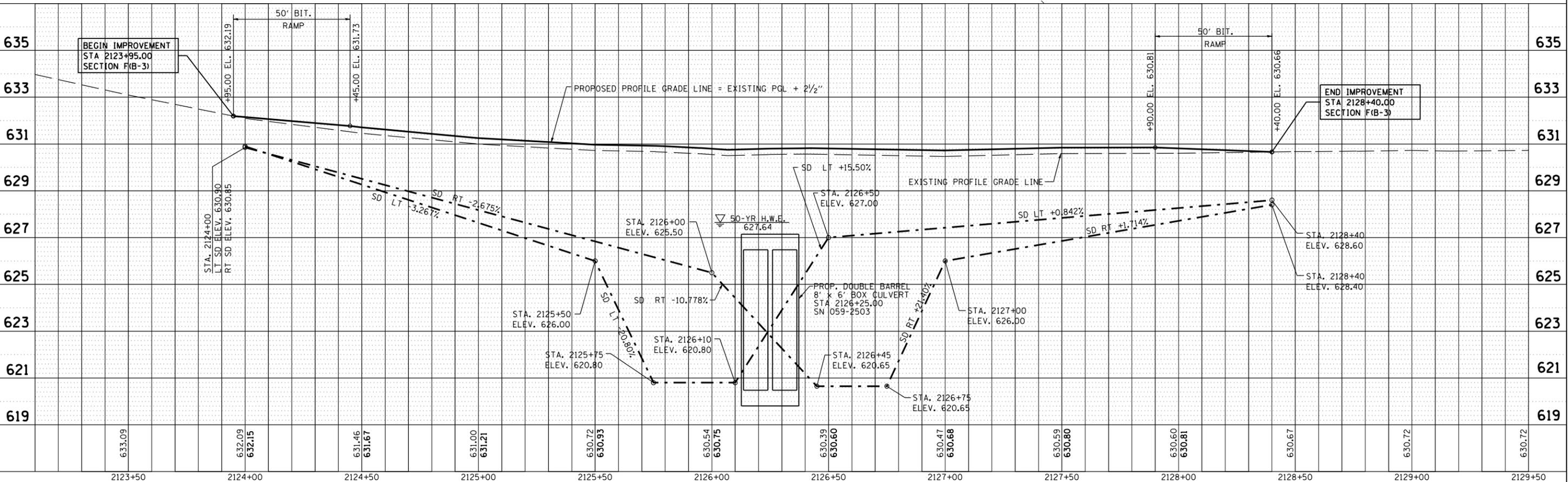
6193102
LEONARD & MELBA DUGAN

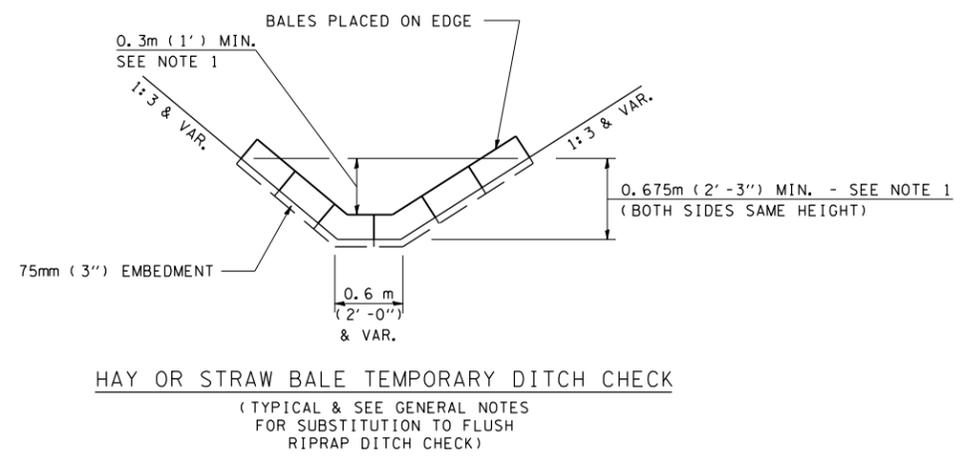
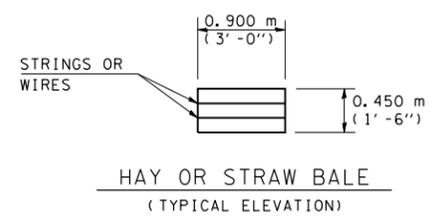


- NOTES: 1. REMOVE TREES UP TO CONSTRUCTION LIMITS.
2. REMOVE EXISTING FENCE UP TO PROPOSED RIGHT OF WAY LINE.
3. SEE SCHEDULE OF QUANTITIES FOR REMOVAL LOCATIONS.

PROPOSED STONE DUMPED RIPRAP
CLASS A4, 331.3 SQ. YD.

PROPOSED GUARDRAIL
APPROACH LENGTH = 150.0 FT
DEPARTURE LENGTH = 125.0 FT
END SECTION: TYPE 1 SPECIAL TERMINAL SECTION (TANGENT)





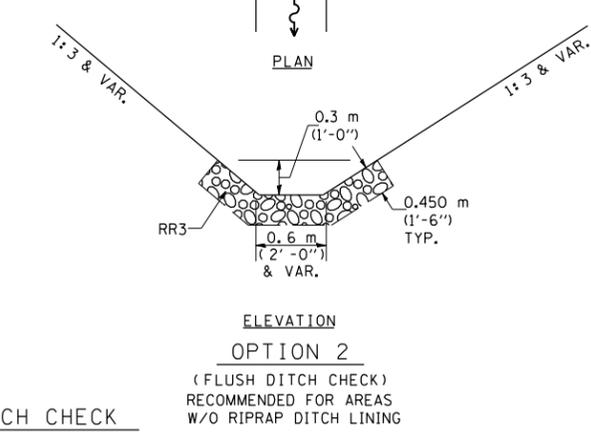
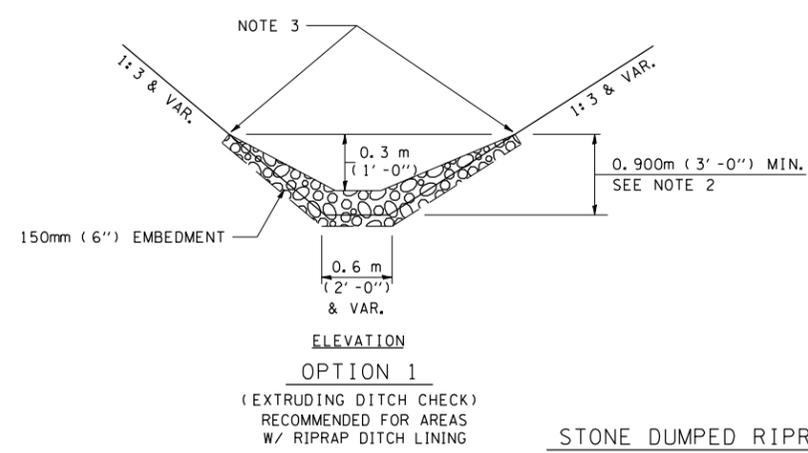
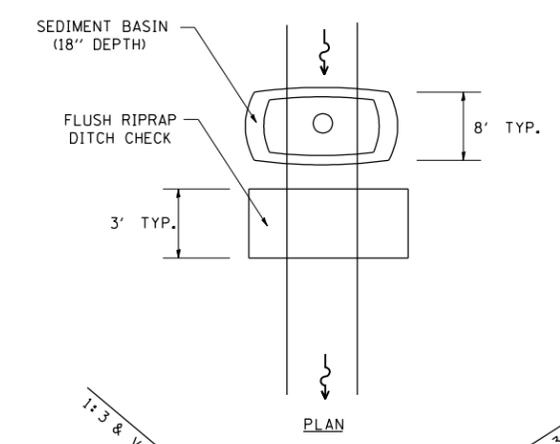
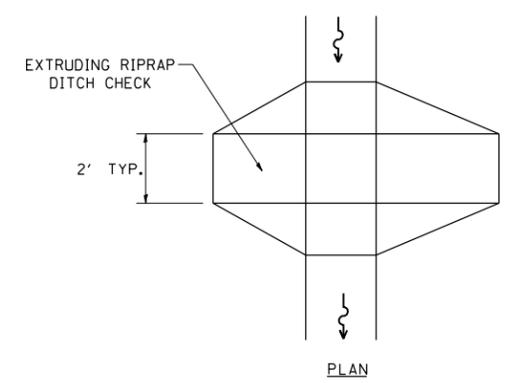
LEGEND FOR STORM WATER POLLUTION PREVENTION PLAN

| ITEM | SYMBOL |
|---|-----------------|
| AGGREGATE (EROSION CONTROL) [STONE DUMPED RIPRAP DITCH CHECKS: Height = 0.6m (2')] | |
| TEMPORARY DITCH CHECKS (HAY OR STRAW BALE DITCH CHECKS OR APPROVED SUBSTITUTION) | |
| INLET PIPE PROTECTION (I&PP) (HAY OR STRAW BALE DITCH CHECKS OR APPROVED SUBSTITUTION) | |
| EROSION CONTROL FENCE | |
| EARTH EXCAVATION FOR EROSION CONTROL (SEDIMENT BASINS) | |
| PRESERVE EXISTING TREES, WOODLANDS, AND UNDERSTORY (OUTSIDE CONSTRUCTION LIMITS) | |
| ITEM PLACED AT BEGINNING OF CONSTRUCTION (Requirement) | * ITEM * |
| ITEM PLACED AS DIRECTED BY ENGINEER (When required by situation) | ITEM |
| DIRECTION OF OVERLAND FLOW | |

GENERAL NOTES:
All items shall be constructed as shown on this sheet, on Standard 280001, and as directed by the Engineer.

The symbology on the STORM WATER POLLUTION PREVENTION PLAN sheets does not represent the size or quantity of bales, for number of bales refer to details and notes shown on this sheet and/or as directed by the Engineer.

THE CONTRACTOR SHALL INSTALL DITCH CHECKS AS DIRECTED BY THE ENGINEER. IF THE ENGINEER ELECTS TO UTILIZE FLUSH RIPRAP DITCH CHECKS IN LIEU OF TEMPORARY DITCH CHECKS AS SHOWN ON THE FOLLOWING PLAN SHEETS, THE SPACING SHOULD BE DOUBLED.



STONE DUMPED RIPRAP DITCH CHECK
(TYPICAL & OPTIONS 1 & 2 AS DIRECTED BY THE ENGINEER)

NOTE 1: BALES SHALL EXTEND FAR ENOUGH UP THE SLOPES TO ALLOW 0.3m (1') OVERTOPPING TO AVOID ERODING AROUND THE EDGES OF THE BALES.

NOTE 2: RIPRAP SHALL EXTEND FAR ENOUGH UP THE SLOPES TO ALLOW 0.3m (1') OVERTOPPING TO AVOID ERODING AROUND THE EDGES OF THE RIPRAP.

NOTE 3: ENDS SHALL BE TIED INTO SLOPES.

PLOT DATE = \$DATE\$
FILE NAME = \$FILEL\$
PLOT SCALE = \$SCALE\$
USER NAME = \$USER\$

SWPPLAN

| REVISIONS | |
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ILLINOIS DEPARTMENT OF TRANSPORTATION

STORM WATER POLLUTION PREVENTION PLAN

SCALE: NONE
DATE: JANUARY 2007

DRAWN BY: SGL
CHECKED BY: FML

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|---------------------|---------|---------------------------|--------------|-----------|
| F.A.D. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| SBI-4 | F(B-3) | MACOUPIN | 27 | 14 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |

CONTRACT #72407

STORM WATER POLLUTION PREVENTION PLAN

Route: SBI ROUTE 4 (OLD IL 4) Marked: HARVEST ROAD
 Section: F(B-3) Project No.:
 County: MACOUPIN Contract No.: 72407

This plan has been prepared to comply with the provision of the NPDES Permit Number ILR10 _____ issued by the Illinois Environmental Protection Agency for storm water discharges from construction site activities.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted, is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Robert M. Reed
 (Signature) 2/1/07
 (Date)

Reg. ENGR
 (Title)

Note: The above boxed in area will be filled out by IDOT - Construction after the award of the contract to obtain the required NPDES permit.

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 Contractor shall abide to all requirements within this plan as part of the contract.

The purpose of this plan is to prevent / 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 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 the 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 erosion control systems and 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 this plan. The Contractor shall perform all work as directed by the Engineer and as shown in special details and in Standard 280001 of the plans.

The special provisions for Temporary Erosion Control Seeding additionally supplement this plan.

All disturbed areas having high potential for erosion, as determined by the Engineer, shall be temporarily seeded or permanently seeded by October 1, 2007 and shall not be reopened until after the winter shutdown period.

SITE DESCRIPTION

Description of Construction Activity:

1. The proposed project consists of 0.81 acres of reconstruction of a two-lane local route on existing alignment.
2. Construction consists of S.N. 059-2503 over Hurricane Creek, and accompanying roadway, drainage and earthwork.

Description of Intended Sequence of Major Construction Activities Which Will Disturb Earth and Lead to Possible Erosion for Major Portions of the Construction Site:

1. Tree removal will be completed to remove 8 trees.
2. Excavation will be completed along the majority of the project to grade out for proposed roadside ditches and waterways.
3. Embankment will be completed to fill areas to raise the existing ground elevation to meet the proposed roadway foreslope and backslope.
4. Drainage structures will be installed before and/or during the construction of the excavation and embankment to maintain acceptable drainage.
5. Placement, maintenance, removal, and proper clean-up of temporary erosion control, such as perimeter erosion barrier, temporary ditch checks, temporary seeding, etc.
6. Placement of permanent erosion control, such as riprap ditch lining, riprap stilling basins, excelsior blanket, seeding, etc.
7. Final grading, clean up, and other miscellaneous items.

Area of Construction Site:

The total drainage area entering and including the construction site is estimated to be 0.81 acres in which 0.51 acres will be disturbed by excavation, grading and other activities.

Other Reports, Studies and Plans which Aid in the Development of this Storm Water Pollution Prevention Plan as Referenced Documents:

1. Estimated run-off coefficients are contained in the project drainage study which were utilized for proposed placement of the temporary erosion control systems.
2. Information on the soils within the site was obtained from field reviews which were utilized for proposed placement of the temporary erosion control systems.
3. Site maps indicating drainage patterns and approximate slopes were contained in the project design report, USGS drainage maps, project drainage study, and project plan documents were all utilized for proposed placement of the temporary erosion control systems.

Drainage Tributaries Receiving Water from this Construction Site:

1. Hurricane Creek

PLOT DATE = #DATE#
 FILE NAME = #FILE#
 PLOT SCALE = #SCALE#
 USER NAME = #USER#

SWPPLAN

| REVISIONS | |
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ILLINOIS DEPARTMENT OF TRANSPORTATION

STORM WATER POLLUTION PREVENTION PLAN

SCALE: NONE
 DATE: JANUARY 2007

DRAWN BY: SCL
 CHECKED BY: FML

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|---------------------|----------|------------------|--------------|-----------|
| F.A.D. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| SBI-4 | F(B-3) | MACOUPIN | 27 | 15 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

CONTRACT #72407

CONTROLS - EROSION CONTROLS AND SEDIMENT CONTROLS

Description of Stabilization Practices at the Beginning of Construction:

1. The area between the existing and proposed right-of-way/temporary easement boundaries and limits of the project will be improved and managed for the purposes of controlling erosion within the area, reducing water flow by temporary diversion and minimizing siltation into the construction zone, and establishing vegetative cover which will become permanent vegetation and act as an erosion barrier. Work at the beginning of construction will consist of the following:
 - (a) Areas of existing vegetation (woods and grasslands) outside the proposed construction slope limits shall be identified for preserving and shall be protected from mowing, brush cutting, tree removal and other activities which would be detrimental to their maintenance and development.
 - (b) Dead, diseased, or unsuitable vegetation within the site shall be removed as directed by the Engineer, along with required tree removal.
 - (c) As soon as reasonable access is available (such as trees cleared) to all locations where water drains away from the project, sediment basins, riprap ditch checks, temporary ditch checks, and/or erosion control fence shall be installed as called out in this plan and directed by the Engineer.
 - (d) Bare and sparsely vegetated ground in highly erodible areas as determined by the Engineer shall be temporarily seeded at the beginning of construction where no construction activities are immediately expected as stated in the special provision "Temporary Erosion Control Seeding".
 - (e) Immediately after tree removal is completed in certain areas which are highly erodible areas as determined by the Engineer, the areas shall be temporarily seeded where no construction activities are immediately expected as stated in the special provision "Temporary Erosion Control Seeding".
 - (f) At locations where a significant amount of water drains into the construction zone from outside areas (adjacent landowners), erosion control fence, temporary ditch checks, or riprap ditch checks will be utilized to locally divert water, reduce flow rates, and collect outside siltation inside the right-of-way line. Erosion control items will not be allowed to be installed to cause flooding to upstream private property which could cause crop damages or other undesirable conditions.
2. Establishment of these temporary erosion control measures will have additional benefits to the project. Desirable grass seed will become established in these areas and will spread seeds onto the construction site until permanent seeding/mowing and overseeding can be complete.
3. A third benefit of these filter areas is that they will begin to provide a screen and buffer. They will help protect the construction site from winds and excess sun and mitigate construction noise and dust.

Description of Stabilization Practices During Construction:

1. During roadway construction, areas outside the construction slope limits as outlined previous herein shall be protected from damaging effects of construction. The Contractor shall not use this area for staging (except as designated on the plans or directed by the Engineer), parking of vehicles or construction equipment, storage of materials, or other construction related activities.
 - (a) Within the construction zone, critical areas which have high flows of water as determined by the Engineer shall remain undisturbed until full scale construction is underway to prevent unnecessary soil erosion.
 - (b) Top soil and earth stockpiles shall be temporarily seeded if they are to remain unused for more than fourteen days.
 - (c) As the Contractor constructs a portion of roadway in a fill section, he/she shall follow the following steps as directed by the Engineer:
 - i. Place temporary erosion control systems at locations where water leaves and enters the construction zone
 - ii. Temporarily seed highly erodible areas outside the construction slope limits
 - iii. Construct roadside ditches and provide temporary erosion control systems
 - iv. Temporary divert water around proposed culvert locations
 - v. Build necessary embankment at culvert locations and then excavate and place culvert
 - vi. Continue building up the embankment to the proposed grade while at the same time place permanent erosion control such as riprap ditch lining and conduct final shaping to the slopes
 - (d) The Contractor shall immediately follow major earth moving operations with final grading equipment. After the major earth spread operation has moved to a new location, final grading shall be completed within fourteen days. If grading is not completed within fourteen days, all major earth moving operations will be stopped, as directed by the Engineer, until disturbed areas are final graded and seeded.
 - (e) Excavated areas and embankments shall be permanently seeded when final graded. If not, they shall be temporarily seeded as stated in the special provision "Temporary Erosion Control Seeding".

- (f) Construction equipment shall be stored and fueled only at designated locations. All necessary measures shall be taken to contain any fuel or pollution run-off in compliance with EPA water quality regulations. Leaking equipment or supplies shall be immediately repaired or removed from the site.
- (g) The Resident Engineer shall inspect the project daily during activities and weekly or after large rains during the winter shutdown period. The project shall additionally be inspected by the Construction Field Engineer on a bi-weekly basis to determine that erosion control efforts are in place and effective and if other control work is necessary.
- (h) Sediment collected during construction by the various temporary erosion control systems shall be disposed of on the site on a regular basis as directed by the Engineer. The cost of this maintenance will be paid for in accordance with Article 109.04 of the Standard Specifications.
- (i) The temporary erosion control systems shall be removed as directed by the Engineer after use is no longer needed or no longer functioning. The costs of this removal shall be included in the unit bid price for the temporary erosion control system. No additional compensation will be allowed.

Description of Structural Practices After Final Grading:

1. 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 a proper stand.
2. Once permanent erosion control systems as proposed in the plans are functional and established, temporary items shall be removed, cleaned up, and disturbed turf reseeded. Temporary riprap ditch checks will be allowed to remain in place where approved by the Engineer.

Maintenance after Construction:

1. Construction is complete after acceptance is received at the final inspection.
2. Areas will be inspected on a regular basis by IDOT District 6 Bureau of Operations.
3. Maintenance crews will perform regular mowings to aid in keeping weeds down and establishing a good roadside seed stand.
4. Maintenance crews will also aid in any ditch lining maintenance or in any drainage problems.
5. All maintenance will be conducted at times when weather conditions will not cause site damage.

DOCUMENTATION

1. A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, date(s) of the inspection, major observations relating to the implementation of this storm water pollution prevention plan, and actions taken in accordance with Section 4.b. shall be made and retained as part of the plan for at least three years after the date of inspection. The report shall be signed in accordance with part VI.G of the general permit.
2. If any violation of the provisions of this plan is identified during the conduct of the construction work covered by this plan, the Resident Engineer or Resident Technician shall complete and file an "Incident of Noncompliance (ION)" report for the identified violation. The Resident Engineer or Resident Technician shall use forms provided by the Illinois Environmental Protection Agency and shall include specific information on the noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact which may have resulted from the noncompliance. All reports of noncompliance shall be signed by a responsible authority in accordance with Part VI.G. of the general permit. The report of noncompliance shall be mailed to the following address:

Illinois Environmental Protection Agency
 Division of Water Pollution Control
 2200 Churchill Road, P.O. Box 19276
 Springfield, IL 62794-9276
 Attn: Compliance Assurance Section

| REVISIONS | |
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ILLINOIS DEPARTMENT OF TRANSPORTATION

STORM WATER POLLUTION PREVENTION PLAN

SCALE: NONE
 DATE: JANUARY 2007

DRAWN BY: SGL
 CHECKED BY: FML

PLOT DATE = \$DATE\$
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 USER NAME = \$USER\$

SWPPLAN

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| F.A.D. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| SBI-4 | F(B-3) | MACOUPIN | 27 | 16 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |
| CONTRACT #72407 | | | | |

CONTRACTOR CERTIFICATION STATEMENT

This certification statement is part of the Storm Water Pollution Plan for the project described below in accordance with NPDES Permit No. ILR10 _____, issued by the Illinois Environmental Protection Agency on _____.

Route: SBI ROUTE 4 (OLD IL 4) Marked: HARVEST ROAD
 Section: F(B-3) Project No.: _____
 County: MACOUPIN Contract No.: 72407

I certify under penalty of law that I understand the terms of the general National Pollutant Discharge Elimination System (NPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification.

Signature _____ Date _____
 Title _____
 Name of Firm _____
 Street Address _____
 City, State, Zip _____
 Phone Number _____

Note: The above boxed in area shall be filled out by the Contractor after the award of the contract to obtain the required NPDES Permit from IEPA. This is a requirement for this contract.

PLOT DATE : \$DATE\$
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 USER NAME : \$USER\$

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ILLINOIS DEPARTMENT OF TRANSPORTATION

**STORM WATER POLLUTION
PREVENTION PLAN**

SCALE: NONE
 DATE: JANUARY 2007

DRAWN BY: SGL
 CHECKED BY: FML

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

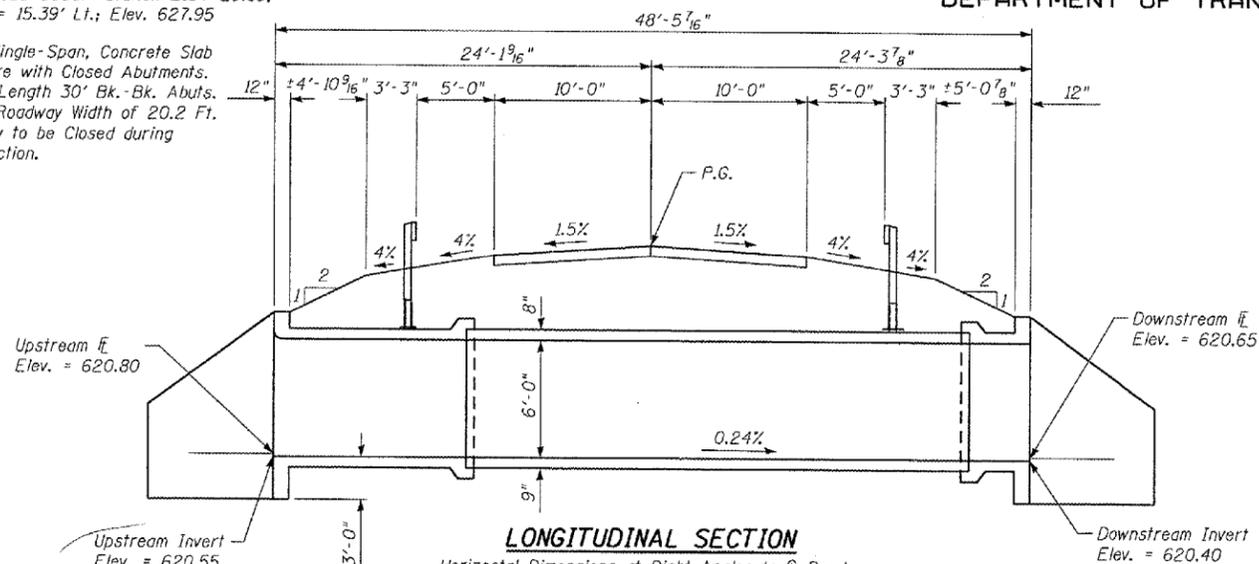
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| ROUTE NO. | SECTION | COUNTY | SHEET | POST |
| SBI 4 | F(B-3) | MACOUPIN | 27 | 17 |
| ILLINOIS | | FED. AID PROJECT | | |

SHEET NO. 1
6 SHEETS

Benchmark: Chiseled Square on Top N.E. Headwall of 4'x3' Box Culvert, 500'+/- South of Str. # 059-0030. Station 2134+29.69; Offset = 15.39' Lt.; Elev. 627.95

Existing Structure: Single-Span, Concrete Slab Structure with Closed Abutments. Overall Length 30' Bk.-Bk. Abuts. with a Roadway Width of 20.2 Ft. Roadway to be Closed during Construction.

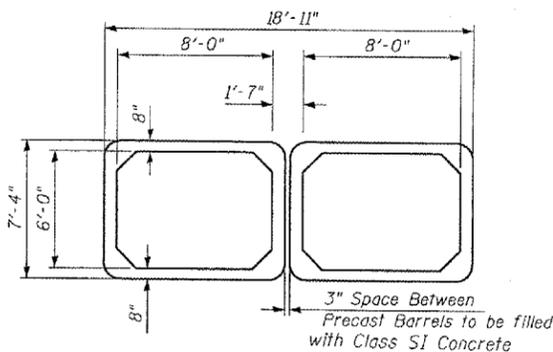
No Salvage



LONGITUDINAL SECTION

Horizontal Dimensions at Right Angles to \bar{C} Roadway

Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing structure.



SECTION THRU PRECAST BARREL

STATION 2126+25.00
BUILT 200 BY
STATE OF ILLINOIS
SBI RT. 4 SECTION F(B-3)

LOADING HS20

STR. NO. 059-2503

NAME PLATE

See Std. 515001

HIGHWAY CLASSIFICATION

SBI Rte. 4 - Old IL 4
Functional Class: Local Road
ADT: 50 (2003); 75 (2025)
Design Speed: 55 m.p.h.
Posted Speed: 55 m.p.h.

LOADING HS20-44

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

DESIGN SPECIFICATIONS

1996 AASHTO with 1997 thru 2002 Interims

DESIGN STRESSES

FIELD UNITS

$f_c = 3,500$ psi
 $f_y = 60,000$ psi (reinforcement)

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.04
Site Coefficient (S) = 1.5



DATE: JAN 30, 2017
EXPIRES: 11/30/2008

GENERAL NOTES

Reinforcement bars shall conform to the requirements of AASHTO M 31, M 42 or M 53 Grade 60.

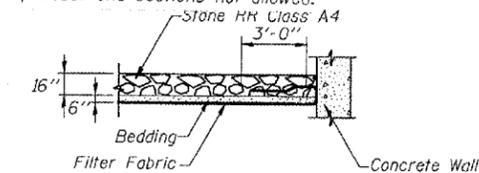
All Construction joints shall be bonded.

For backfilling and embankment see Standard Specifications.

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

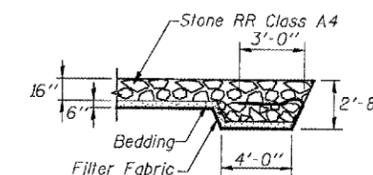
It shall be the responsibility of the Contractor to divert the stream flow during construction in order to keep the construction areas free of water. The method of water diversion shall be subject to the approval of the Engineer and the cost shall be incidental to "Precast Concrete Box Culvert 8'x6'".

This box culvert has a design fill height of 3.0 feet. The Precast Concrete Box Culvert sections shall conform to the requirements of AASHTO M 259. Substitution of precast end sections not allowed.



STONE RIPRAP ANCHOR DETAIL

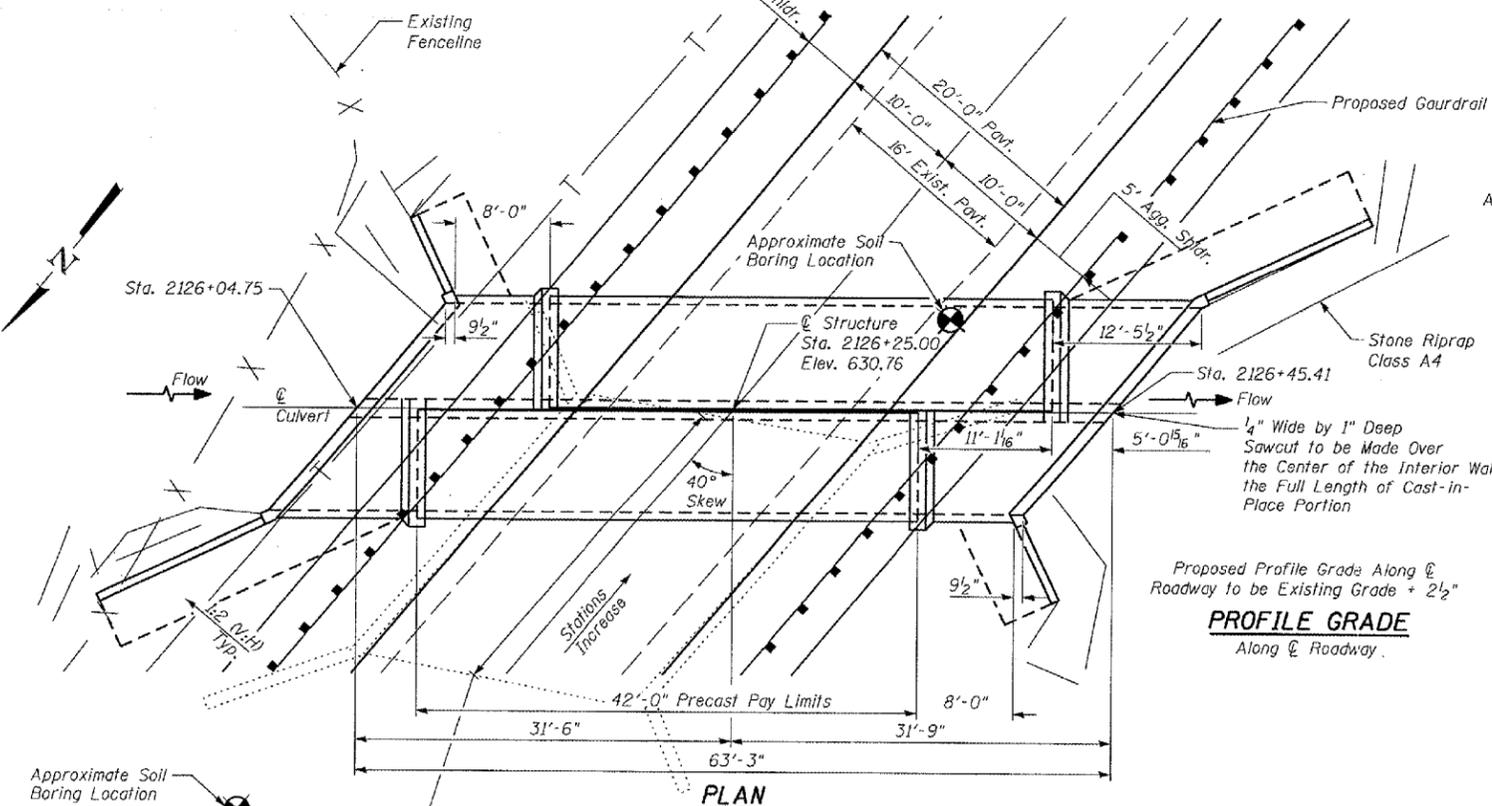
(Typical where riprap abuts concrete)



STONE RIPRAP ANCHOR DETAIL

TOTAL BILL OF MATERIAL

| ITEM | UNIT | TOTAL |
|------------------------------------|---------|-------|
| Removal of Existing Structures | Each | 1 |
| Precast Concrete Box Culvert 8'x6' | Foot | 84 |
| Name Plates | Each | 1 |
| Box Culvert End Sections | Each | 2 |
| Stone Riprap, Class A4 | Sq. Yd. | 640 |
| Filter Fabric | Sq. Yd. | 640 |
| Granular Culvert Backfill | Cu. Yd. | 250 |



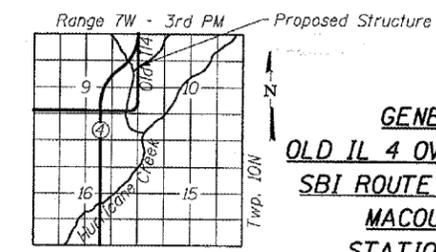
PLAN

WATERWAY INFORMATION

Drainage Area = 0.57 sq. mi. Low Grade Elev. 630.57 @ Sta. 2126+25.00

| Flood | Freq. Yr. | Q C.F.S. | Opening Sq. Ft. | Nat. H.W.E. | Head - Ft. | Headwater El. | | | |
|-------------|-----------|----------|-----------------|--------------|--------------|---------------|------|--------|--------|
| | | | Exist. Prop. | Exist. Prop. | Exist. Prop. | Exist. Prop. | | | |
| Design | 10 | 199 | 70 | 96 | 626.34 | 0 | 0.13 | 625.97 | 626.47 |
| Base | 50 | 306 | 94 | 96 | 627.64 | 0 | 0.24 | 627.19 | 627.88 |
| Overtopping | 100 | 351 | 102 | 96 | 627.98 | 0 | 0.26 | 627.54 | 628.24 |
| Max. Calc. | 500 | 458 | 120 | 96 | 628.60 | 0 | 0.38 | 628.25 | 628.98 |

I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE INFORMATION AND BELIEF, THIS BRIDGE DESIGN IS STRUCTURALLY ADEQUATE FOR THE DESIGN LOADING SHOWN ON THE PLANS. THE DESIGN IS AN ECONOMICAL ONE FOR THE STYLE OF STRUCTURE AND COMPLIES WITH THE REQUIREMENTS OF THE 2002 AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES AND THE 2003 EDITION OF THE ILLINOIS PRESTRESSED CONCRETE MANUAL.



LOCATION SKETCH

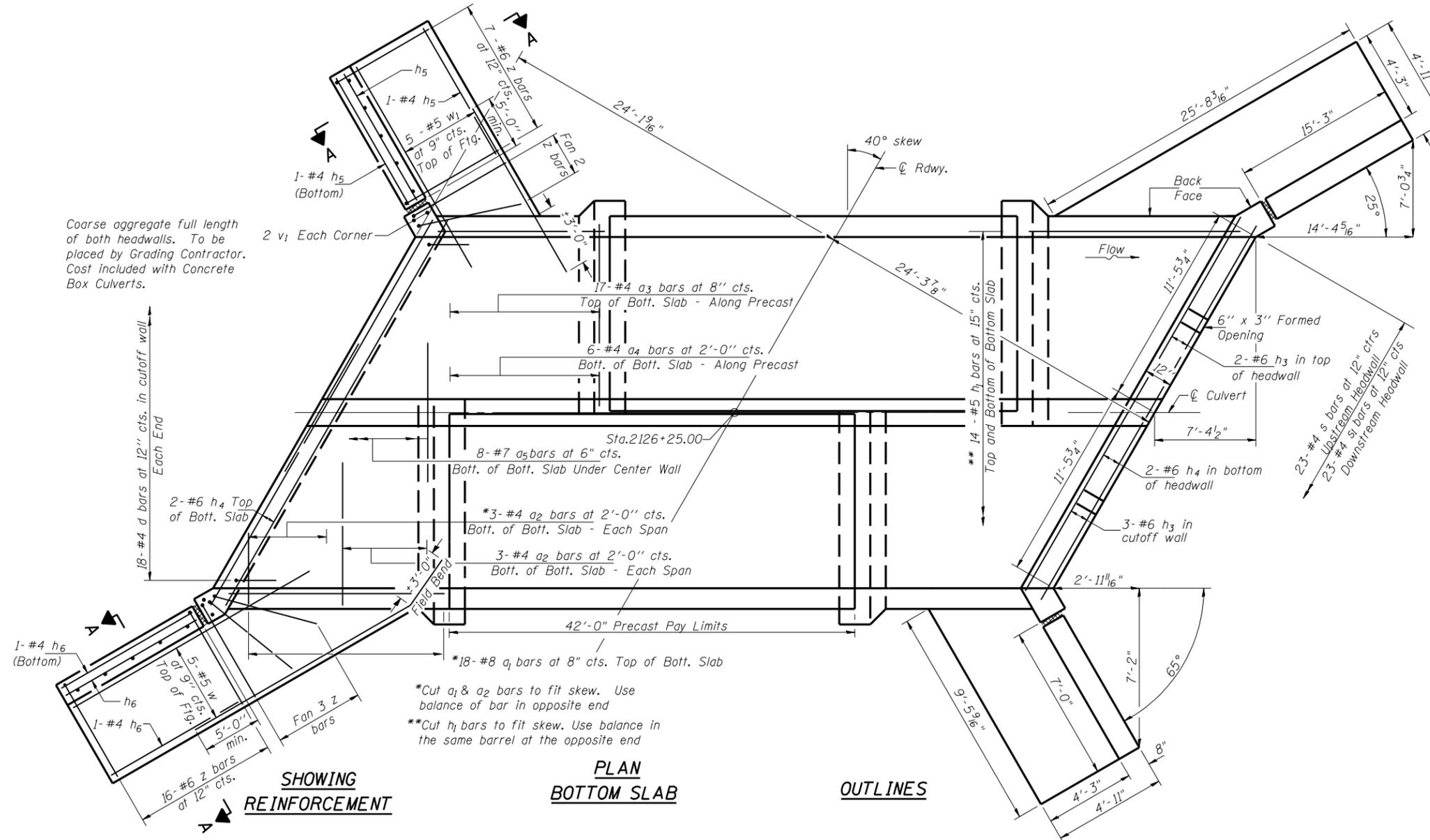
GENERAL PLAN
OLD IL 4 OVER HURRICANE CREEK
SBI ROUTE 4 SECTION F(B-3)
MACOUPIN COUNTY
STATION 2126+25.00
STRUCTURE 059-2503

| | | | |
|----------|------------|----------|--|
| DESIGNED | N. KAMPMAN | EXAMINED | |
| CHECKED | M. HOOK | PASSED | |
| DRAWN | N. KAMPMAN | | |
| CHECKED | M. HOOK | | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------------------|----------|------------------|--------------|-----------|
| SBI 4 | F(B-3) | MACOUPIN | 27 | 19 |
| FED. ROAD DIST. NO. 7 | ILLINOIS | FED. AID PROJECT | | |

SHEET NO. 3
6 SHEETS



| | |
|----------|------------|
| DESIGNED | N. KAMPMAN |
| CHECKED | M. HOOK |
| DRAWN | M. HUNT |
| CHECKED | M. HOOK |

| | |
|----------|------------------------------------|
| EXAMINED | 20 |
| PASSED | ENGINEER OF BRIDGE DESIGN |
| | ENGINEER OF BRIDGES AND STRUCTURES |

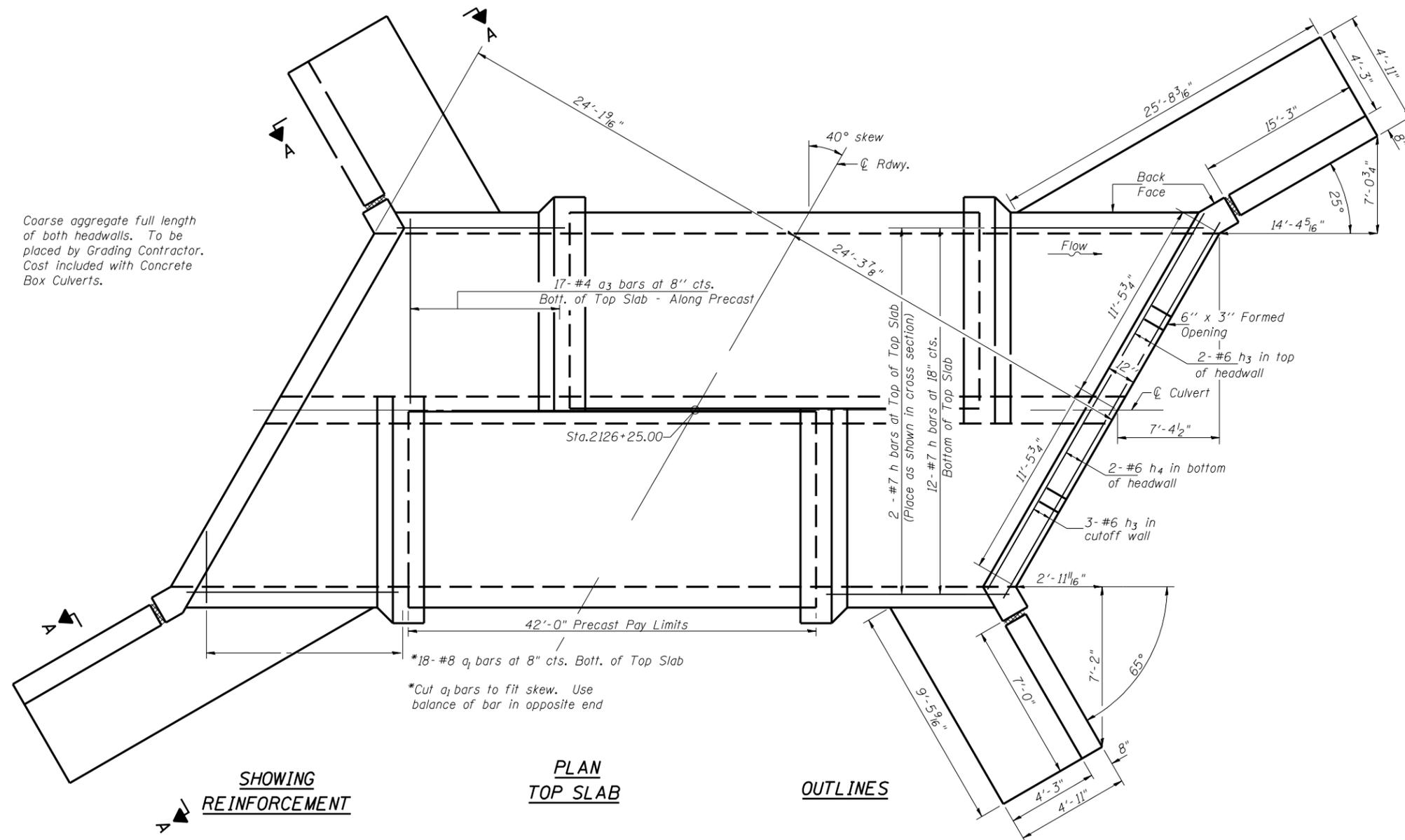
Note: For Collar Detail see Sheet #5

CULVERT DETAILS
OLD IL 4 OVER HURRICANE CREEK
SBI ROUTE 4 SECTION F(B-3)
MACOUPIN COUNTY
STATION 2126+25.00
STRUCTURE 059-2503

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------------------|---------|----------|------------------|-----------|
| SBI 4 | F(B-3) | MACOUPIN | 27 | 20 |
| FED. ROAD DIST. NO. 7 | | ILLINOIS | FED. AID PROJECT | |

SHEET NO. 4
6 SHEETS



| | |
|----------|------------|
| DESIGNED | N. KAMPMAN |
| CHECKED | M. HOOK |
| DRAWN | M. HUNT |
| CHECKED | M. HOOK |

| | |
|----------|------------------------------------|
| EXAMINED | 20 |
| PASSED | ENGINEER OF BRIDGE DESIGN |
| | ENGINEER OF BRIDGES AND STRUCTURES |

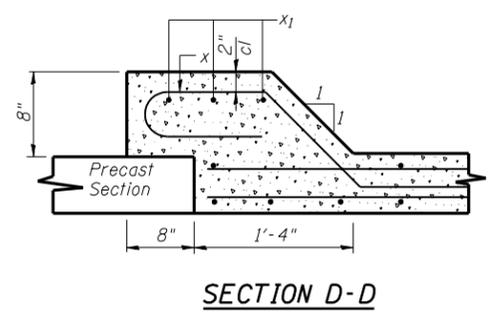
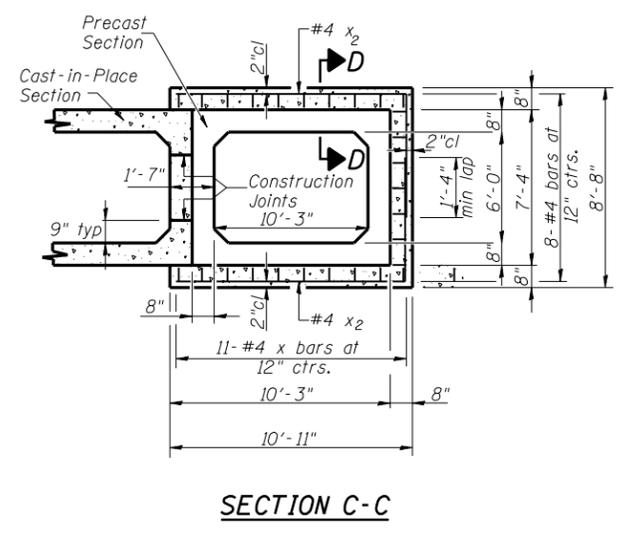
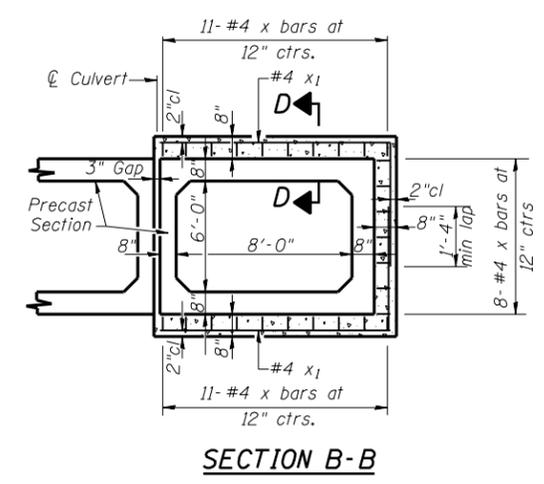
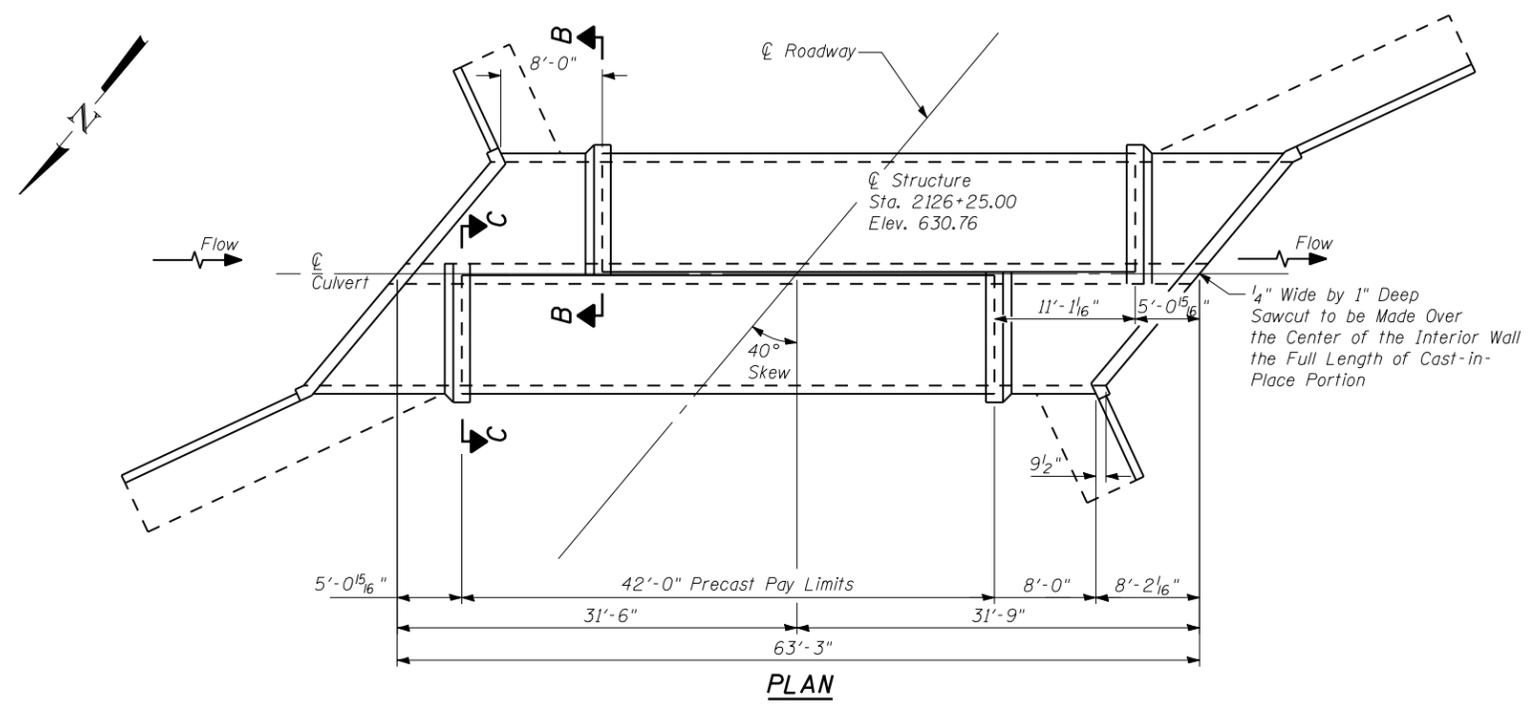
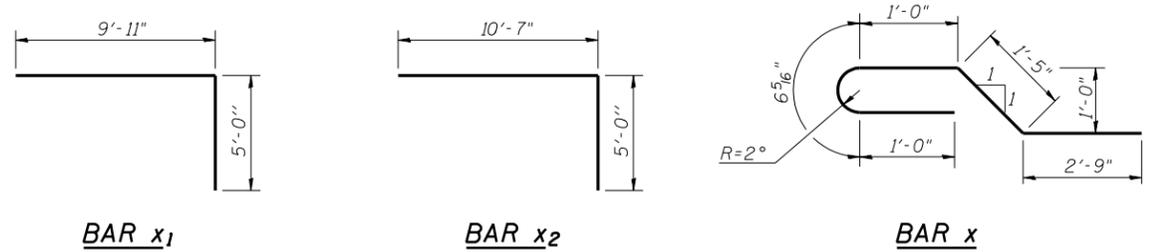
Note: For Collar Detail
see Sheet #5

CULVERT DETAILS
OLD IL 4 OVER HURRICANE CREEK
SBI ROUTE 4 SECTION F(B-3)
MACOUPIN COUNTY
STATION 2126+25.00
STRUCTURE 059-2503

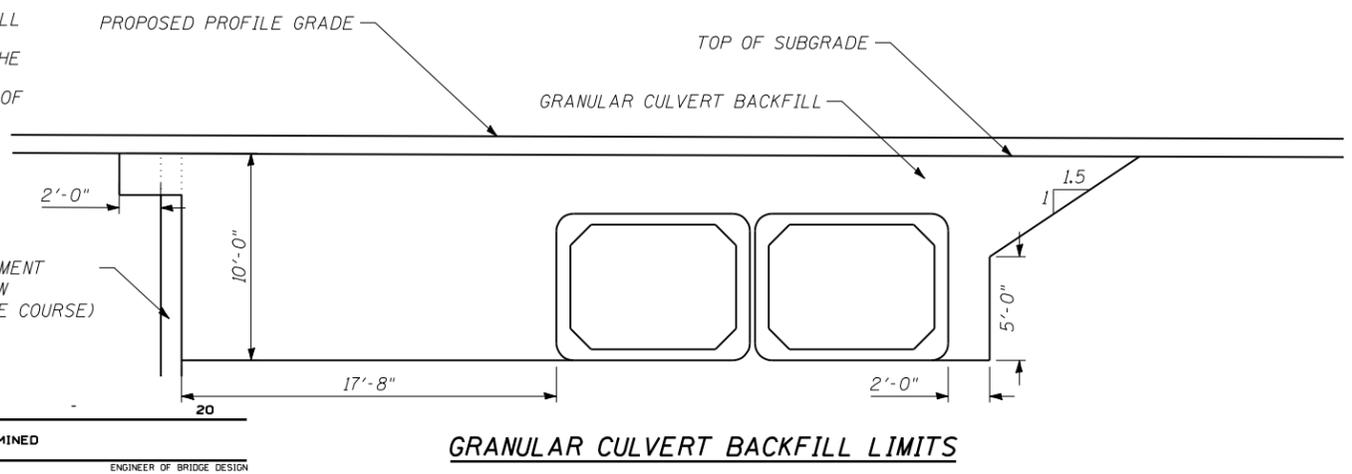
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------------------|----------|-------------------|--------------|-----------|
| SBI 4 | F(B-3) | MACOUPIN | 27 | 21 |
| FED. ROAD DIST. NO. 7 | ILLINOIS | FED. AID PROJECT- | | |

SHEET NO. 5
6 SHEETS



NOTE:
PLACE GRANULAR CULVERT BACKFILL WITHIN THE EXCAVATED AREA INDICATED, OUTSIDE AND ABOVE THE PROPOSED BOX CULVERT, TO A DISTANCE 2' OUTSIDE THE EDGES OF PAVEMENT AND CAP ENDS WITH EARTH EMBANKMENT.



| | |
|----------|------------|
| DESIGNED | N. KAMPMAN |
| CHECKED | M. HOOK |
| DRAWN | M. HUNT |
| CHECKED | M. HOOK |

| | |
|----------|------------------------------------|
| EXAMINED | ENGINEER OF BRIDGE DESIGN |
| PASSED | ENGINEER OF BRIDGES AND STRUCTURES |

CULVERT DETAILS
OLD IL 4 OVER HURRICANE CREEK
SBI ROUTE 4 SECTION F(B-3)
MACOUPIN COUNTY
STATION 2126+25.00
STRUCTURE 059-2503

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------------------|---------|----------|------------------|-----------|
| SBI 4 | F(B-3) | MACOUPIN | 27 | 22 |
| FED. ROAD DIST. NO. 7 | | ILLINOIS | FED. AID PROJECT | |

SHEET NO. 6
6 SHEETS



Illinois Department of Transportation
Division of Highways
DOT District 5

SOIL BORING LOG

Page 1 of 1

Date 8/27/03

ROUTE SBI 4 (Old IL 4) DESCRIPTION over Hurricane Creek LOGGED BY M. Tappan

SECTION F(B-3) LOCATION NW 1/4, SEC. 10, TWP. 10 N, RNG. 7 W, 3 PM

COUNTY Macoupin DRILLING METHOD HSA HAMMER TYPE 140# Auto

| STRUCT. NO. | STATION | BORING NO. | STATION | OFFSET | GROUND SURFACE ELEV. | D | B | U | M | Surface Water Elev. | Stream Bed Elev. | Groundwater Elev. | First Encounter | Upon Completion | After | Hrs. | Plugged | (ft) | /6" | (tsf) | (%) | (ft) | /6" | (tsf) | (%) |
|--|---------|------------|---------|------------|----------------------|---|---|---|---|---------------------|------------------|-------------------|-----------------|-----------------|-------|------|---------|------|-----|-------|-----|------|-----|-------|-----|
| 059-0030 Ex | 10+00 | 1 SW WW | 9+63 | 10.00ft Lt | 99.9 | | | | | 90.7 | 90 | | 78.4 | Dry | | | | | | | | | | | |
| Dark Grey Moist SILTY CLAY (Fill) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Grey Dry SANDY CLAY LOAM (Till) (continued) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Broken Sample | | | | | | | | | | | | | | | | | | | | | | | | | |
| Free Water | | | | | | | | | | | | | | | | | | | | | | | | | |
| Boring Completed | | | | | | | | | | | | | | | | | | | | | | | | | |
| Brown and Dark Grey Moist SILTY CLAY | | | | | | | | | | | | | | | | | | | | | | | | | |
| Grey and Brown Moist Weathered SILTY CLAY (Till) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Grey Dry SANDY CLAY LOAM (Till) | | | | | | | | | | | | | | | | | | | | | | | | | |
| Broken Sample | | | | | | | | | | | | | | | | | | | | | | | | | |
| Broken Sample | | | | | | | | | | | | | | | | | | | | | | | | | |
| Broken Sample | | | | | | | | | | | | | | | | | | | | | | | | | |

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

ROUTE SBI 4 (Old IL 4) DESCRIPTION over Hurricane Creek LOGGED BY M. Tappan

SECTION F(B-3) LOCATION NW 1/4, SEC. 10, TWP. 10 N, RNG. 7 W, 3 PM

COUNTY Macoupin DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. 059-0030 Ex
Station 10+00

BORING NO. 2 NE WW
Station 10+33
Offset 9.00ft Rt
Ground Surface Elev. 99.7

| D | B | U | M | Surface Water Elev. | Stream Bed Elev. | Groundwater Elev. | First Encounter | Upon Completion | After | Hrs. | Plugged | (ft) | /6" | (tsf) | (%) | (ft) | /6" | (tsf) | (%) |
|--|---|---|---|---------------------|------------------|-------------------|-----------------|-----------------|-------|------|---------|------|-----|-------|-----|------|-----|-------|-----|
| | | | | 90.7 | 90 | | 78.4 | Dry | | | | | | | | | | | |
| Dark Grey Moist SILTY CLAY (Fill) | | | | | | | | | | | | | | | | | | | |
| Grey Dry SANDY CLAY LOAM (Till) (continued) | | | | | | | | | | | | | | | | | | | |
| Grey Wet Coarse Grained SANDY GRAVEL | | | | | | | | | | | | | | | | | | | |
| Free Water | | | | | | | | | | | | | | | | | | | |
| Boring Completed | | | | | | | | | | | | | | | | | | | |
| Brown and Grey Moist Weathered SILTY CLAY (Till) | | | | | | | | | | | | | | | | | | | |
| Refer STA, Elevation to c.l. of Existing Structure Assume c.l. = 10+00, 100.0' | | | | | | | | | | | | | | | | | | | |
| Grey and Brown Moist CLAY LOAM (Till) | | | | | | | | | | | | | | | | | | | |
| Grey Dry SANDY CLAY LOAM (Till) | | | | | | | | | | | | | | | | | | | |
| Broken Sample | | | | | | | | | | | | | | | | | | | |
| Broken Sample | | | | | | | | | | | | | | | | | | | |

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

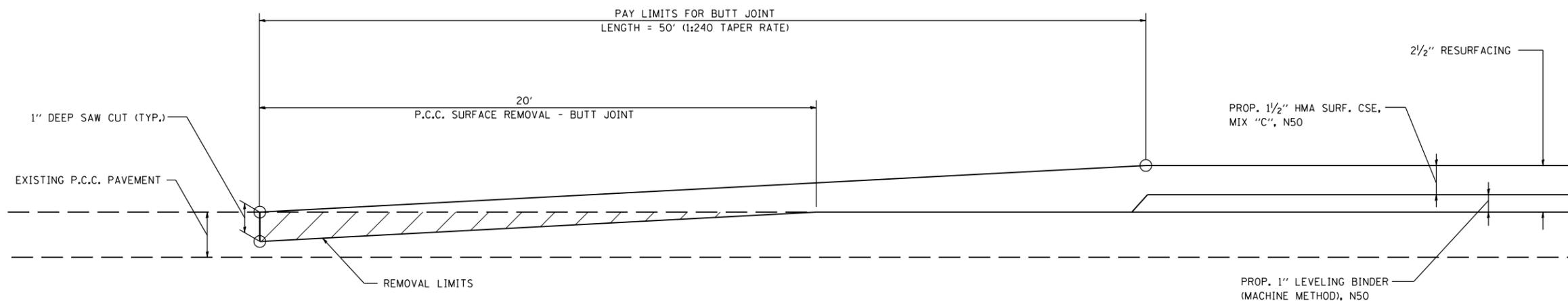
SOIL BORING 059-0030 OVER HURRICANE CREEK/PL 11 DOT-GOT 8/19/03

| | |
|----------|-----------|
| DESIGNED | N. KAMPAN |
| CHECKED | M. HOOK |
| DRAWN | N. KAMPAN |
| CHECKED | M. HOOK |

| | |
|----------|------------------------------------|
| EXAMINED | 20 |
| PASSED | ENGINEER OF BRIDGE DESIGN |
| | ENGINEER OF BRIDGES AND STRUCTURES |

SOIL BORING LOGS
OLD IL 4 OVER HURRICANE CREEK
SBI ROUTE 4 SECTION F(B-3)
MACOUPIN COUNTY
STATION 2126+25.00
STRUCTURE 059-2503

| | | | | |
|---------------------|----------|------------------|--------------|-----------|
| F.A.D. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| SBI-4 | F(B-3) | MACOUPIN | 27 | 23 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |
| CONTRACT #72407 | | | | |



BUTT JOINT DETAIL

STA. 2123+95.00 TO STA. 2124+45.00
 STA. 2127+90.00 TO STA. 2128+40.00

GENERAL NOTES

1. THE WORK SHALL BE DONE IN ACCORDANCE WITH ARTICLE 406.08.
2. THE PAVEMENT SURFACE TO BE REMOVED IS P.C. CONCRETE. THE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 406.
3. THE SAW CUT JOINTS SHALL BE PRIMED JUST PRIOR TO THE PLACING OF BITUMINOUS MATERIAL. THE WORK WILL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF ARTICLE 406.05. THE BUTT JOINTS PAY ITEM INCLUDES THE SAW CUT & PRIME COAT.

| REVISIONS | |
|-----------|------|
| NAME | DATE |
| | |
| | |
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| | |

ILLINOIS DEPARTMENT OF TRANSPORTATION

BUTT JOINT DETAIL

SCALE: NONE
 DATE: 08/2004

DRAWN BY: FML
 CHECKED BY: JH

