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- 701001-01 OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 4.5 m (15') AWAY
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- 701321-08 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
- 701326-02 LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS \geq 45 MPH
- 701501-03 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 702001-06 TRAFFIC CONTROL DEVICES
- 704001-03 TEMPORARY CONCRETE BARRIER
- 781001-02 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

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.

MICROFILMED _____
 REEL NUMBER _____
 AWARDED _____
 RESIDENT ENGINEER _____
 AS BUILT CHANGES WERE MADE
 ON THE FOLLOWING SHEETS _____

JULIE 1-800-892-0123

DISTRICT 3 NO. (815) 434-6131

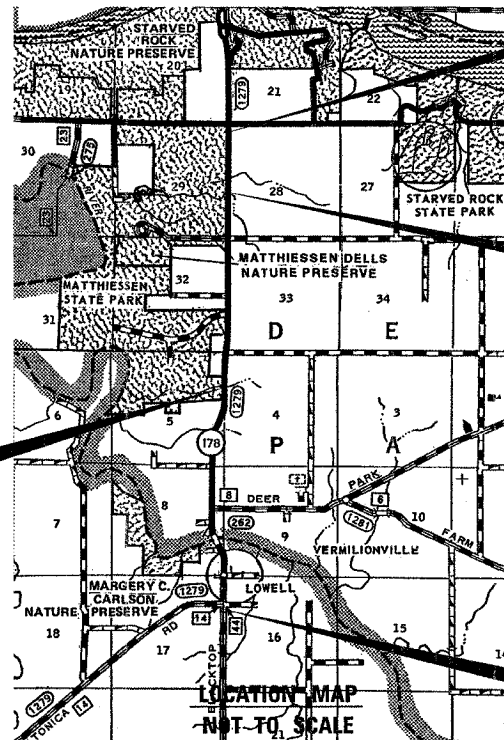
PROJECT ENGINEER: D. BROVIAK
 UNIT CHIEF: M. JONES
 TOWNSHIP: DEER PARK, VERMILION

CONTRACT NO. 66400

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID HIGHWAY
FAS 1279 (ILL. ROUTE 178)
SECTION 1-RS, (106,107)RS-2, 108 RS-1 & 1
PROJECT RS-1279 (107)
LASALLE COUNTY

C - 93 - 173 - 03

ILL. RTE. 71 TO C.H. 14 3P RESURFACING, MILLING,
 CULVERT REPLACEMENT 050-0153 & 050-0154



PROJECT BEGINS
 STA. 1001+29.02

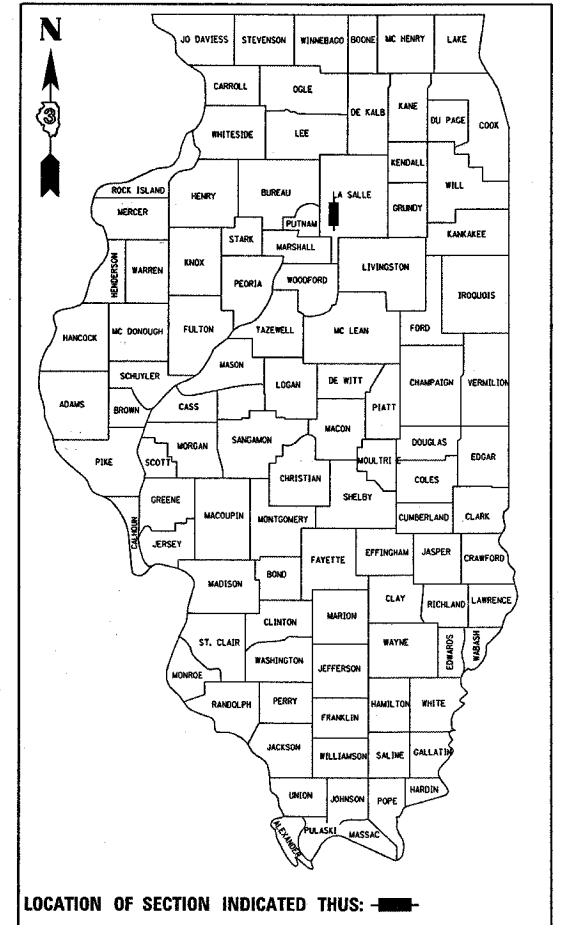
PROPOSED SN 050-2041
EXISTING SN 050-0153

STA. 1032+49.18
 SECTION 1071
 STRUCTURE NO. 050-2041
 (EXISTING S.N. 050-0153)
 10'x6' PRECAST CONCRETE
 DOUBLE BOX CULVERT
 60' IN LENGTH WITH TWO
 CAST-IN-PLACE HEADWALLS

PROJECT ENDS
 STA. 1229+01.85

GROSS LENGTH = 22,798.35 FT. = 4.32 MI.
 NET LENGTH = 22,210.85 FT. = 4.2 MI.

| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------------------------------|---------|---------|--------------|-----------|
| 1279 | | LASALLE | 43 | 1 |
| 1-RS, (106,107)RS-2, 108 RS-1 & 1 | | | 45 | |
| P-93-020-01 | | | | |
| D-93-062-03 | | | | |



FUNCTIONAL CLASSIFICATION
MAJOR COLLECTOR (RURAL)

2006 ADT = 2200
 P.V. = 83.7% S.U. = 11.3% M.U. = 5.0%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED _____ 20____
George Ryan
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
 _____ 2007
Eric E. Harant
 ENGINEER OF DESIGN AND ENVIRONMENT
 _____ 2007
Milton R. See, P.E.
 DIRECTOR, DIVISION OF HIGHWAYS

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

| F. A. S. ATE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO |
|---------------------|----------|------------------|--------------|----------|
| 1279 | * | LASALLE | 43 | 2 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

* 1-RS, (106,107)RS-2, 108 R-1 & 1

GENERAL NOTES

(Revised October 5, 2006)

THE THICKNESS OF HMA SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA IS PLACED.

THE HMA SURFACE OF ALL MAILBOX TURNOUTS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES, AND SIDE ROADS SHALL BE MADE NEATLY, IN A WORKMANLIKE MANNER, AND SHALL ACCURATELY CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. IF REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO SAW CUT THE HMA SURFACE TO CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. THIS WORK SHALL BE INCLUDED IN THE COST OF THE HMA SURFACE

THE BASE COURSE WIDENING SHALL BE CARRIED THROUGH ALL ENTRANCES, SIDE ROADS, AND MAILBOX TURNOUTS. EXCEPTIONS WILL BE SHOWN ON THE PLANS.

EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.

ONLY THOSE TREES DESIGNATED BY THE ENGINEER OR LISTED IN THE TREE REMOVAL SCHEDULE SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.

THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

ON EXISTING PAVEMENT WHICH MAY BE SUPERELEVATED, THE NEW HMA PAVEMENT SHALL BE BUILT WITH THE SAME SUPERELEVATION UNLESS NEW SUPERELEVATION RATES ARE GIVEN ON THE PLANS.

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

ADDITIONAL LEVELING BINDER, AT THE RATE GIVEN ON THE TYPICAL SECTIONS, HAS BEEN ADDED TO THE QUANTITIES TO CORRECT TO A 3/16"/FT. CROWN ON SECTIONS OF EXISTING ROADWAYS.

ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS INCLUDED IN THESE PLANS.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

| | | |
|------------------------------|--------|---------------------------|
| GRANULAR MATERIALS | 2.05 | TONS / CU YD |
| BITUMINOUS MAT PRIME COAT | 0.08 | GAL / SQ YD OR |
| | 0.375 | GAL / SQ YD |
| AGGREGATE PRIME COAT | 0.002 | TONS / SQ YD |
| HMA RESURFACING | 112 | LBS / SQ YD / IN |
| SHORT TERM PAVEMENT MARKING | 10 | FT /100 FT OF APPLICATION |
| MIX FOR CRACKS, JTS & FLGWYS | 0.0003 | TONS / SQ YD |
| LEVEL BINDER (HAND METHOD) | 0.0005 | TONS / SQ YD |
| SUPPLEMENTAL WATERING | 3 | GAL / SQ YD / APPLICATION |
| CALCIUM CHLORIDE | 2 | LB / SQ YD / APPLICATION |
| TEMPORARY DITCH CHECKS | 5 | TONS AGGREGATE |

MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:

NON-MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

PREPARED BY: *Paul Powell*
DISTRICT STUDIES & PLANS ENGINEER

DATE: March 23, 2007

EXAMINED BY: *Herbert K. Long*
DISTRICT CONSTRUCTION ENGINEER

Matt Quib
DISTRICT MATERIALS ENGINEER

DISTRICT OPERATIONS ENGINEER

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

GENERAL NOTES

| | | | | |
|------------------------------------|---------|----------|------------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1279 | * | LASALLE | 43 | 3 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS | FED. AID PROJECT | |
| *1-RS, (106.107)RS-2, 108 RS-1 & I | | | | |

SUMMARY OF QUANTITIES

| CODE NO. | CONSTRUCTION TYPE CODE | UNIT | 80% FED. 20% STATE TOTAL QUANTITY | 1000 | | | Y007 | |
|----------|-------------------------------------------------|--------|--------------------------------------------|------------------|-------------------------------------------------|-------------------------------------------------|-------|--|
| | | | | ROADWAY QUANTITY | S.N. 050-2040 (EX S.N. 050-0154) QUANTITY | S.N. 050-2041 (EX S.N. 050-0153) QUANTITY | | |
| 20100110 | TREE REMOVAL (6 TO 15 UNITS DIAMETER) | UNIT | 57 | | 42 | | 15 | |
| 20100500 | TREE REMOVAL, ACRES | ACRE | 0.4 | | 0.4 | | | |
| 20100210 | TREE REMOVAL (OVER 15 UNITS DIAMETER) | UNIT | 32 | | 32 | | | |
| 20200100 | EARTH EXCAVATION | CU YD | 1877 | | 1370 | | 507 | |
| 20201200 | REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL | CU YD | 655 | | 489 | | 166 | |
| 20700220 | POROUS GRANULAR EMBANKMENT | CU YD | 2,295 | | 1,710 | | 585 | |
| 25000200 | SEEDING, CLASS 2 | ACRE | 1.03 | | 0.7 | | 0.33 | |
| 20700400 | POROUS GRANULAR EMBANKMENT, SPECIAL | CU YD | 600 | | 460 | | 140 | |
| 25000400 | NITROGEN FERTILIZER NUTRIENT | POUND | 93 | | 63 | | 30 | |
| 21001000 | GEOTECHNICAL FABRIC FOR GROUND STABILIZATION | SQ YD | 673 | | 361 | | 312 | |
| 25000500 | PHOSPHORUS FERTILIZER NUTRIENT | POUND | 93 | | 63 | | 30 | |
| 25100635 | HEAVY DUTY EROSION CONTROL BLANKET | SQ YD | 899 | | 317 | | 582 | |
| 25000600 | POTASSIUM FERTILIZER NUTRIENT | POUND | 93 | | 63 | | 30 | |
| 28100107 | STONE RIPRAP, CLASS A4 | SQ YD | 410 | | 357 | | 53 | |
| 25100630 | EROSION CONTROL BLANKET | SQ YD | 4,089 | | 3,063 | | 1,026 | |
| 28200200 | FILTER FABRIC | SQ YD | 410 | | 357 | | 53 | |
| 31100910 | SUB-BASE GRANULAR MATERIAL, TYPE A 12" | SQ YD | 505 | | 310 | | 195 | |
| 35501324 | HOT-MIX ASPHALT BASE COURSE, 10" | SQ YD | 1,839 | | 1,030 | | 809 | |
| 35501332 | HOT-MIX ASPHALT BASE COURSE, 12" | SQ YD | 452 | | 278 | | 174 | |
| 40600100 | BITUMINOUS MATERIALS (PRIME COAT) | GALLON | 11,195 | 10,307 | 518 | | 370 | |
| 40600300 | AGGREGATE (PRIME COAT) | TON | 276 | 254 | 13 | | 9 | |
| 40600400 | MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS | TON | 22 | 20 | 1 | | 1 | |
| 40600525 | LEVELING BINDER (HAND METHOD), N50 | TON | 37 | 34 | 2 | | 1 | |
| 40600625 | LEVELING BINDER (MACHINE METHOD), N50 | TON | 2,701 | 2,468 | 136 | | 97 | |
| 40600895 | CONSTRUCTING TEST STRIP | EACH | 2 | 2 | | | | |
| 40600982 | HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT | SQ YD | 819 | 819 | | | | |
| 40600990 | TEMPORARY RAMP | SQ YD | 387 | 387 | | | | |
| 40603310 | HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 | TON | 6,339 | 5,873 | 272 | | 194 | |
| 40800050 | INCIDENTAL HOT-MIX ASPHALT SURFACING | TON | 378 | 378 | | | | |
| 44000152 | HOT-MIX ASPHALT SURFACE REMOVAL, 3/4" | SQ YD | 59,724 | 59,724 | | | | |
| 44000155 | HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2" | SQ YD | 8,436 | 8,436 | | | | |
| 44000100 | PAVEMENT REMOVAL | SQ YD | 461 | | 292 | | 169 | |
| 44000198 | HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH | SQ YD | 1,574 | 1,574 | | | | |
| 44004000 | PAVED DITCH REMOVAL | FOOT | 365 | | 365 | | | |

PLOT DATE = 3/23/2007
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 USER NAME = schuchberg

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ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: VERT. _____
 HORIZ. _____

DATE _____ DRAWN BY _____
 CHECKED BY _____

| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|---------|---------|--------------|-----------|
| 1279 | * | LASALLE | 43 | 4 |

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

*1-RS, (106,107)RS-2, 108 RS-1 & 1

SUMMARY OF QUANTITIES

| CODE NO. | CONSTRUCTION TYPE CODE | UNIT | 80% FED. 20% STATE TOTAL QUANTITY | I000 ROADWAY QUANTITY | Y007 | |
|------------|-----------------------------------------------------|--------|--------------------------------------------|-----------------------------|-------------------------------------------------|-------------------------------------------------|
| | | | | | S.N. 050-2040 (EX S.N. 050-0154) QUANTITY | S.N. 050-2041 (EX S.N. 050-0153) QUANTITY |
| 44004250 | PAVED SHOULDER REMOVAL | SQ YD | 40 | | 40 | |
| 48101200 | AGGREGATE SHOULDERS, TYPE B | TON | 2,214 | 2,214 | | |
| 48203021 | HOT-MIX ASPHALT SHOULDERS, 6" | SQ YD | 673 | | 403 | 270 |
| 50100300 | REMOVAL OF EXISTING STRUCTURES NO. 1 | EACH | 1 | | | 1 |
| 50100400 | REMOVAL OF EXISTING STRUCTURES NO. 2 | EACH | 1 | | 1 | |
| 51500100 | NAME PLATES | EACH | 2 | | 1 | 1 |
| 54001001 | BOX CULVERT END SECTION, CULVERT NO.1 | EACH | 2 | | | 2 |
| 54001002 | BOX CULVERT END SECTION, CULVERT NO.2 | EACH | 2 | | 2 | |
| 54011006 | PRECAST CONCRETE BOX CULVERT 10' X 6' | FOOT | 120 | | | 120 |
| 54011208 | PRECAST CONCRETE BOX CULVERT 12' X 8' | FOOT | 96 | | 96 | |
| 60617510 | PAVED DITCH, TYPE B-30 | FOOT | 313 | | 313 | |
| * 63000000 | STEEL PLATE BEAM GUARD RAIL, TYPE A | FOOT | 1,300 | | 850 | 450 |
| * 63100167 | TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT) | EACH | 8 | | 4 | 4 |
| * 63000025 | STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES | FOOT | 75 | | | 75 |
| 63200310 | GUARDRAIL REMOVAL | FOOT | 1,179 | | 741 | 438 |
| 66600105 | FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS | EACH | 8 | | 4 | 4 |
| 66700205 | PERMANENT SURVEY MARKERS, TYPE I | EACH | 17 | 17 | | |
| 67000400 | ENGINEER'S FIELD OFFICE, TYPE A | CAL MO | 10 | 6 | 2 | 2 |
| 67100100 | MOBILIZATION | L SUM | 1 | 1 | | |
| 70100405 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 | EACH | 2 | | 1 | 1 |
| 70100460 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701306 | L SUM | 1 | 1 | | |
| 70100500 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701326 | L SUM | 1 | | 0.5 | 0.5 |
| 70103815 | TRAFFIC CONTROL SURVEILLANCE | CAL DA | 45 | | 23 | 22 |
| 70106500 | TEMPORARY BRIDGE TRAFFIC SIGNALS | EACH | 2 | | 1 | 1 |
| 70300100 | SHORT-TERM PAVEMENT MARKING | FOOT | 6,881 | 6653 | 120 | 108 |
| 70300210 | TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS | SQ FT | 78 | 78 | | |
| 70300220 | TEMPORARY PAVEMENT MARKING - LINE 4" | FOOT | 74,565 | 68,965 | 2,880 | 2,720 |
| 70300240 | TEMPORARY PAVEMENT MARKING - LINE 6" | FOOT | 3,970 | 3620 | 180 | 170 |

*SPECIALTY ITEM

| REVISIONS | |
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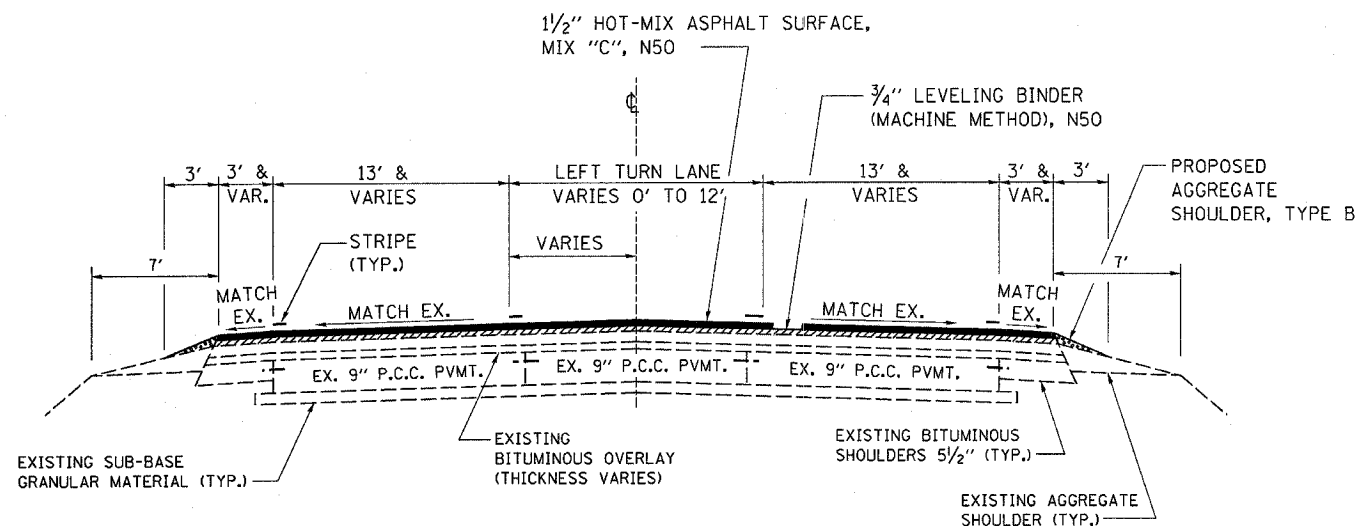
ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: VERT.
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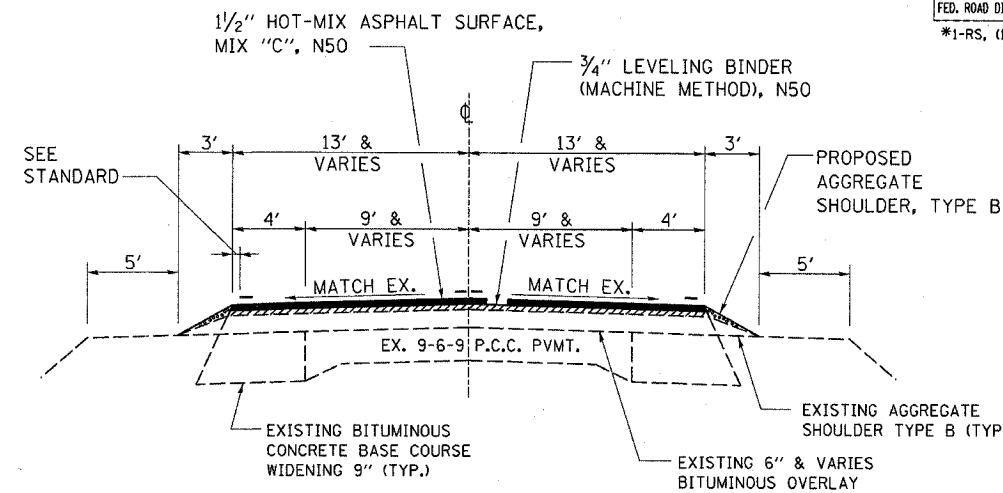
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
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| 1279 | * | LASALLE | 43 | 6 |
| STA. TO STA. | | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | |
| | | *1-RS, (106,107)RS-2, 108 RS-1 & 1 | | |



TYPICAL SECTION NO. 1
IL 178

(FACING TOWARD INTERSECTION)

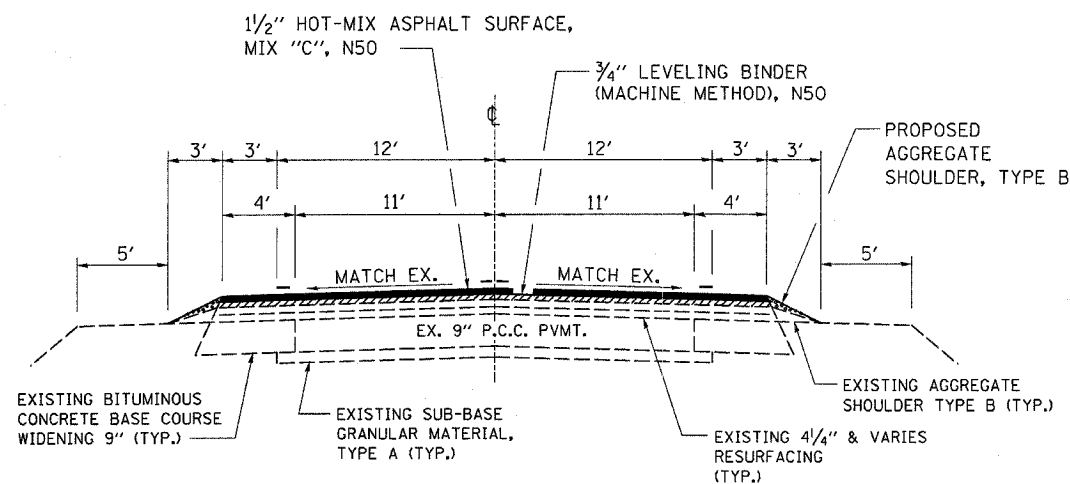
STA. 1001+29.02 TO STA. 1006+17.80



TYPICAL SECTION NO. 3
IL 178

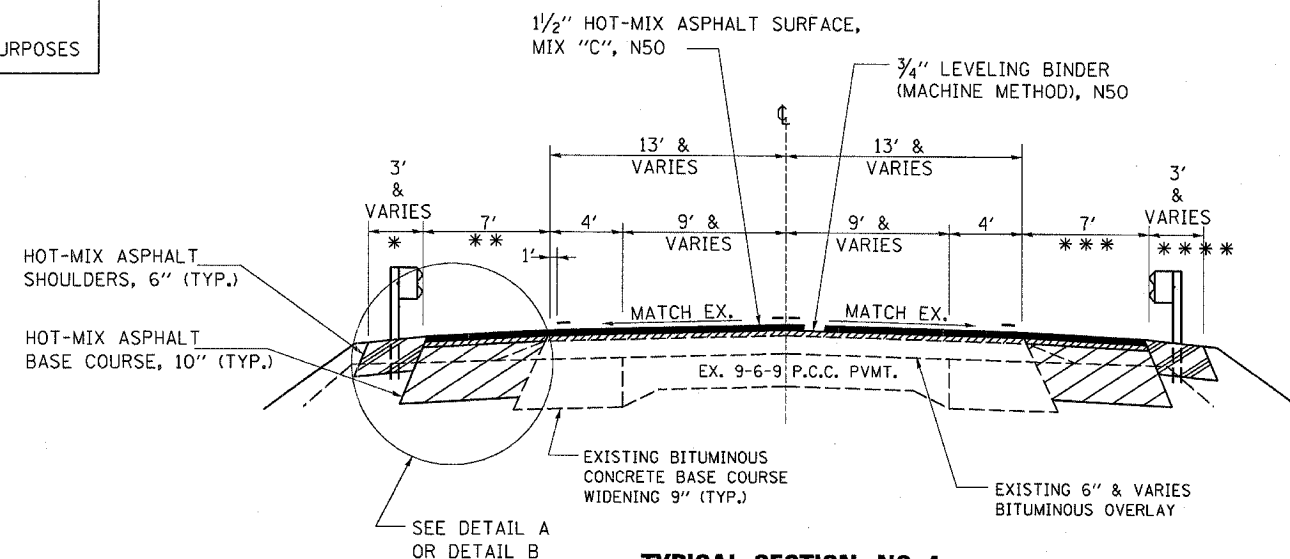
STA. 1013+67.80 TO STA. 1029+90
STA. 1035+10 TO STA. 1117+20
STA. 1124+55 TO STA. 1188+00

NOTE:
HOT-MIX ASPHALT SURFACE REMOVAL, 3/4" HAS BEEN INCLUDED TO BE USED AT THE ENGINEER'S DISCRETION FOR PROFILING PURPOSES



TYPICAL SECTION NO. 2
IL 178

STA. 1006+17.80 TO STA. 1013+67.80



TYPICAL SECTION NO. 4

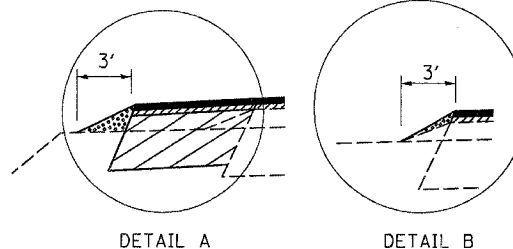
IL 178
AT PROPOSED S.N. 050-2041
(EXISTING S.N. 050-0153)

STA. 1029+90 TO STA. 1035+10

SEE STAGING PLANS FOR
STA. 1032+20 TO STA. 1032+80

* STA. 1030+90.02 TO STA. 1034+70.85 LT
** STA. 1029+90 TO STA. 1035+10 LT.

*** STA. 1029+90 TO STA. 1035+10 RT.
**** STA. 1030+27.52 TO STA. 1034+08.36 RT



THREE FOOT AGGREGATE SHOULDER, TYPE B PLACED EXCEPT WHERE NOTED OTHERWISE

| REVISIONS | |
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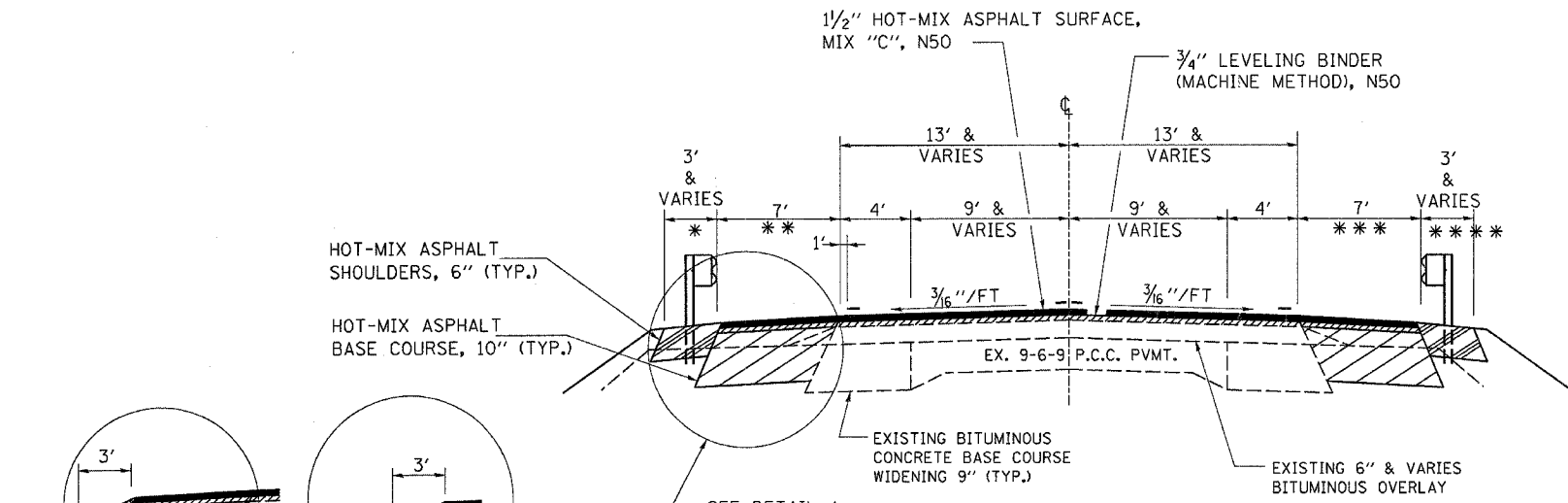
ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: VERT. HORIZ. DATE

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| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|------------------------------------|---------|-----------------------------------------------|--------------|-----------|
| 1279 | * | LASALLE | 43 | 7 |
| STA. TO STA. | | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | |
| *1-RS, (106.107)RS-2, 108 RS-1 & I | | | | |

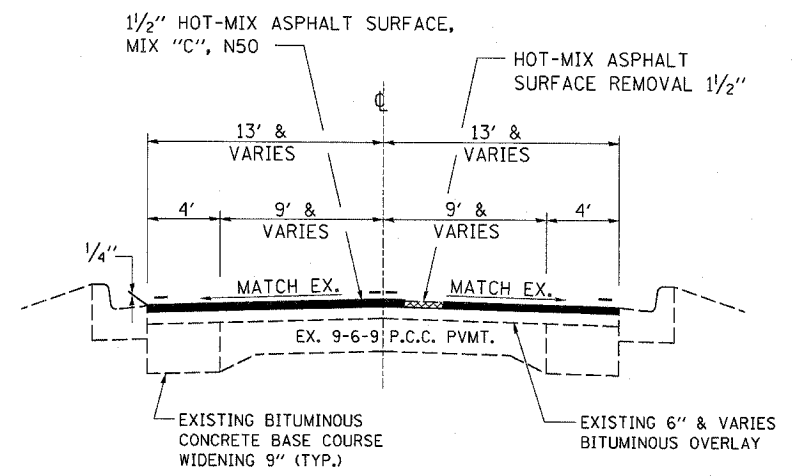
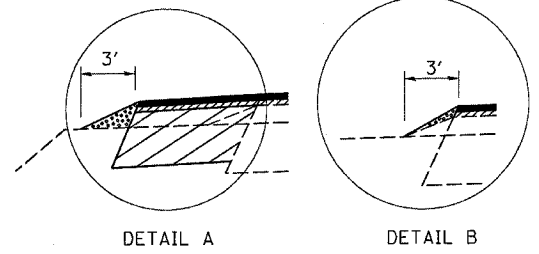


TYPICAL SECTION NO. 5
IL 178
AT PROPOSED S.N. 050-2040
(EXISTING S.N. 050-0154)
 STA. 1117+20 TO STA. 1124+83.90

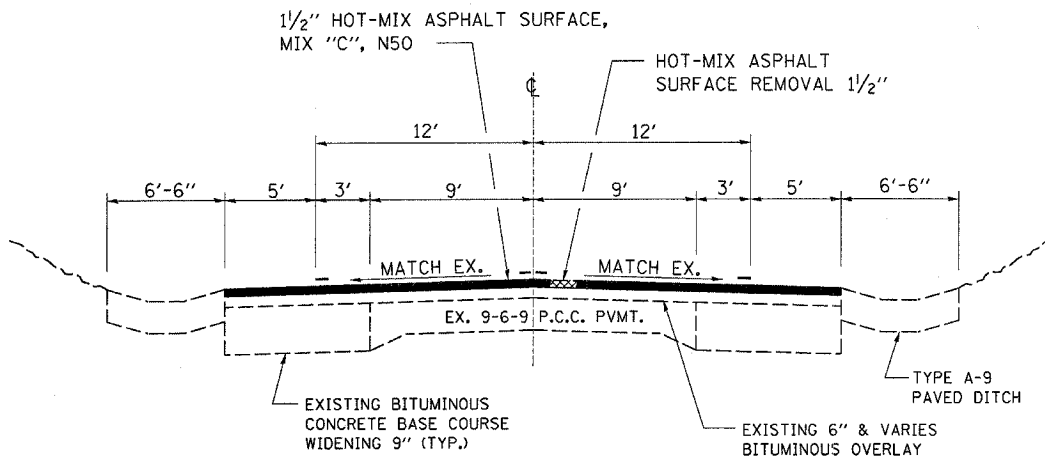
ADDITIONAL QUANTITY OF 168 TONS OF LEVELING BINDER HAS BEEN INCLUDED FOR CROWN CORRECTION.

SEE STAGING PLANS FOR STA. 1119+52 TO STA. 1120+48

- * STA. 1118+52.29 TO STA. 1122+39.03 LT
- ** STA. 1117+20.0 TO STA. 1122+80.0 LT
- *** STA. 1117+20.0 TO STA. 1124+55.0 RT
- **** STA. 1117+66.26 TO STA. 1124+83.90 RT

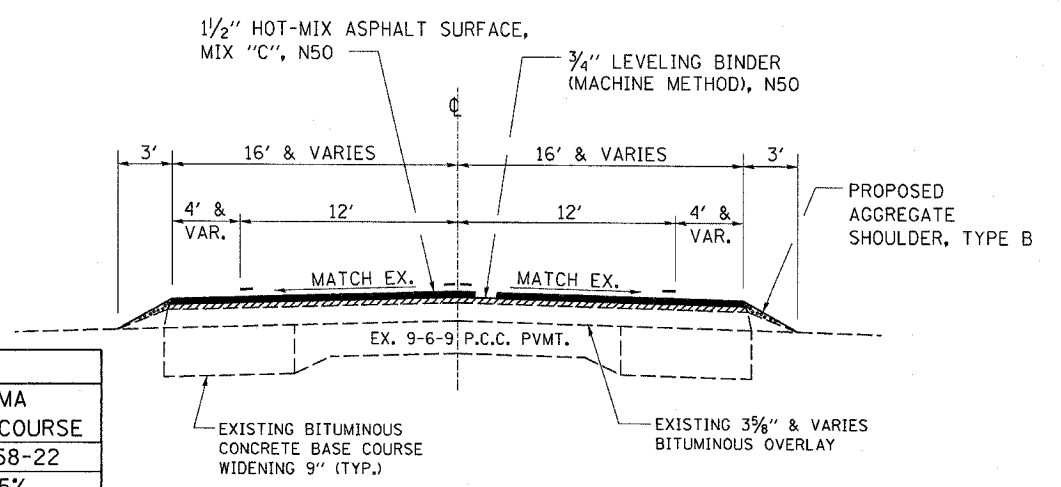


TYPICAL SECTION NO. 7
IL 178
 STA. 1199+75 TO STA. 1212+80



TYPICAL SECTION NO. 6
IL 178
 STA. 1188+00 TO STA. 1194+20

STA. 1194+20 TO STA. 1199+75
 BRIDGE OMISSION - S.N. 050-0096



TYPICAL SECTION NO. 8
IL 178
 STA. 1212+80 TO STA. 1229+01.85

| | HMA SURFACE | HMA LEVEL BINDER | HMA SHOULDER | HMA BASE COURSE |
|-----------------------|-------------------|--------------------------|--------------|-----------------|
| PG GRADE | PG 64-22 | PG 58-22 | PG 58-22 | PG 58-22 |
| MAX % RAP ALLOWABLE** | 15% | 25% | 30% | 25% |
| DESIGN AIR VOIDS | 4.0% @ N50 | 4.0% @ N50 | 3.0% @ N50 | 4.0% @ N50 |
| MIXTURE COMPOSITION | IL 12.5 OR IL 9.5 | IL 9.5 | BAM | IL 19.0 |
| FRICTION AGGREGATE | MIXTURE C | | | |
| DENSITY TEST METHOD | CORRELATION | SATISFACTION OF ENGINEER | * | CORES/NUCLEAR |

* MATERIAL SHALL BE COMPACTED TO 93.0-97.4 PERCENT OF THE MAXIMUM THEORETICAL DENSITY, EXCEPT THAT WHEN PLACED AS FIRST LIFT ON AN UNIMPROVED SUBGRADE THE MINIMUM DENSITY SHALL BE DETERMINED FROM THE MOVING AVERAGE AS SPECIFIED IN THE QC/QA SPECIFICATION.

** IF RAP OPTION IS SELECTED, THE ASPHALT CEMENT GRADE MAY NEED TO BE ADJUSTED. THIS WILL BE DETERMINED BY THE ENGINEER.

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

TYPICAL SECTIONS

SCALE: VERT. HORIZ. DATE

DRAWN BY CHECKED BY

| | | | | |
|------------------------------------|----------|------------------|--------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1279 | * | LASALLE | 43 | 8 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |
| *1-RS, (106,107)RS-2, 108 RS-1 & I | | | | |

MAINLINE SCHEDULE

| STA. TO STA. | LENGTH | AREA | HOT-MIX ASPHALT SURFACE MIX "C" N 50 | 3/4" LEVELING BINDER (MACHINE METHOD) N 50 | LEVELING BINDER (HAND METHOD) | HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH | HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2 " | HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JT. | MIXTURE FOR CRACKS, JOINTS, AND FLNGWYS | BITUMINOUS MATERIALS (PRIME COAT) | AGGREGATE (PRIME COAT) | TEMP RAMPS | SUBBASE GRANULAR MAT'L TY A 12" | HMA BASE COURSE 12" N 50 | HMA BASE COURSE 10" N 50 | HMA SHLD 6" N 30 | EMBANKMENT | AGGREGATE SHOULDER TY B | |
|------------------------------------------|---------|----------|--------------------------------------|--------------------------------------------|-------------------------------|-------------------------------------------------|------------------------------------------|--------------------------------------------|-----------------------------------------|-----------------------------------|------------------------|------------|---------------------------------|--------------------------|--------------------------|------------------|------------|-------------------------|--|
| | FT | SQ YD | TON | TON | TON | SQ YD | SQ YD | SQ YD | TON | GAL | TON | SQ YD | SQ YD | SQ YD | SQ YD | SQ YD | CU YD | TON | |
| RTE. 178 (SOUTH) | | | | | | | | | | | | | | | | | | | |
| 1001+29.02 TO 1002+19.02 | 90.0 | 458.6 | 40.1 | 3.2 | 0.0 | | | 305.7 | 0.1 | 73.4 | 1.8 | 25.5 | | | | | | 7.7 | |
| 1002+19.02 TO 1003+62.50 | 143.5 | 708.3 | 59.5 | 29.7 | 0.4 | | | | 0.2 | 113.3 | 2.8 | | | | | | | 12.3 | |
| 1003+62.50 TO 1004+62.50 | 100.0 | 462.9 | 38.9 | 19.4 | 0.2 | | | | 0.1 | 74.1 | 1.9 | | | | | | | 8.5 | |
| 1004+62.50 TO 1005+62.50 | 100.0 | 418.8 | 35.2 | 17.6 | 0.2 | | | | 0.1 | 67.0 | 1.7 | | | | | | | 11.4 | |
| 1005+62.50 TO 1006+90.00 | 127.5 | 474.2 | 39.8 | 19.9 | 0.2 | | | | 0.1 | 75.9 | 1.9 | | | | | | | 14.5 | |
| 1006+90.00 TO 1008+39.75 | 149.8 | 512.7 | 43.1 | 21.5 | 0.3 | | | | 0.2 | 82.0 | 2.1 | | | | | | | 17.1 | |
| 1008+39.75 TO 1012+50.13 | 410.4 | 1,358.8 | 114.1 | 57.1 | 0.7 | | | | 0.4 | 217.4 | 5.4 | | | | | | | 46.7 | |
| 1012+50.13 TO 1013+00.00 | 49.9 | 158.2 | 13.3 | 6.6 | 0.1 | | | | 0.0 | 25.3 | 0.6 | | | | | | | 5.7 | |
| 1013+00.00 TO 1014+00.00 | 100.0 | 299.6 | 25.2 | 12.6 | 0.1 | | | | 0.1 | 47.9 | 1.2 | | | | | | | 11.4 | |
| 1014+00.00 TO 1022+00.00 | 800.0 | 2,340.0 | 196.6 | 98.3 | 1.2 | | | | 0.7 | 374.4 | 9.4 | | | | | | | 91.1 | |
| 1022+00.00 TO 1027+82.61 | 582.6 | 1,694.4 | 142.3 | 71.2 | 0.8 | | | | 0.5 | 271.1 | 6.8 | | | | | | | 66.4 | |
| 1027+82.61 TO 1029+90.00 | 207.4 | 596.4 | 50.1 | 25.0 | 0.3 | | | | 0.2 | 95.4 | 2.4 | | | | | | | 23.6 | |
| S.N. 050-2041 (EX. S.N. 050-0153) | | | | | | | | | | | | | | | | | | | |
| 1029+90.00 TO 1035+10.00 | 520.0 | 2,311.1 | 194.1 | 97.1 | 1.2 | | | | 0.7 | 369.8 | 9.2 | | 193.3 | 173.3 | 808.9 | 270.0 | | | |
| 1035+10.00 TO 1053+91.02 | 1,881.0 | 5,465.4 | 459.1 | 229.5 | 2.7 | | | | 1.6 | 874.5 | 21.9 | | | | | | | 197.8 | |
| 1053+91.02 TO 1094+00.00 | 4,046.1 | 12,007.9 | 1,008.7 | 504.3 | 6.0 | | | | 3.6 | 1,921.3 | 48.0 | | | | | | | 460.8 | |
| 1094+00.00 TO 1112+60.24 | 1,860.2 | 5,496.0 | 461.7 | 230.8 | 2.7 | | | | 1.6 | 879.4 | 22.0 | | | | | | | 211.9 | |
| 1112+60.24 TO 1117+20.00 | 459.8 | 1,344.0 | 112.9 | 56.4 | 0.7 | | | | 0.4 | 215.0 | 5.4 | | | | | | | 52.4 | |
| S.N. 050-2040 (EX. S.N. 050-0154) | | | | | | | | | | | | | | | | | | | |
| 1117+20.00 TO 1122+80.00 | 560.0 | 2,488.9 | 209.1 | 104.5 | 1.2 | | | | 0.7 | 398.2 | 10.0 | | 309.3 | 277.3 | 871.1 | 309.0 | | | |
| 1122+80.00 TO 1124+83.90 | 203.9 | 747.6 | 62.8 | 31.4 | 0.4 | | | | 0.2 | 119.6 | 3.0 | | | | 158.6 | 94.0 | | | |
| 1124+83.90 TO 1173+67.21 | 4,883.3 | 14,107.3 | 1,185.0 | 592.5 | 7.1 | | | | 4.2 | 2,257.2 | 56.4 | | | | | | | 556.2 | |
| 1173+67.21 TO 1174+57.21 | 90.0 | 261.0 | 21.9 | 1.8 | 0.1 | 174.0 | | | 0.1 | 41.8 | 1.0 | | | | | | | 10.3 | |
| 1174+57.21 TO 1176+09.54 | 152.3 | 443.4 | 37.2 | 0.0 | 0.2 | | 443.4 | | 0.1 | 71.0 | 1.8 | | | | | | | 17.3 | |
| 1176+09.54 TO 1176+99.54 | 90.0 | 261.5 | 22.0 | 1.8 | 0.1 | 174.3 | | | 0.1 | 41.8 | 1.0 | | | | | | | 10.3 | |
| 1176+99.54 TO 1183+85.26 | 685.7 | 2,009.9 | 168.8 | 84.4 | 1.0 | | | | 0.6 | 321.6 | 8.0 | | | | | | | 78.1 | |
| 1183+85.26 TO 1186+71.14 | 285.9 | 836.4 | 70.3 | 35.1 | 0.4 | | | | 0.3 | 133.8 | 3.3 | | | | | | | 25.7 | |
| 1186+71.14 TO 1187+19.02 | 47.88 | 138.8 | 12.6 | 1.8 | 0.1 | 138.80 | | | 0.0 | 22.2 | 0.6 | | | | | | | 5.5 | |
| 1187+19.02 TO 1187+61.14 | 42.12 | 140.7 | 11.8 | 0.0 | 0.1 | 40.48 | | | 0.0 | 22.5 | 0.6 | | | | | | | | |
| 1187+61.14 TO 1189+69.28 | 208.1 | 793.1 | 66.6 | 0.0 | 0.4 | | 793.1 | | 0.2 | 126.9 | 3.2 | | | | | | | | |
| 1189+69.28 TO 1191+00.00 | 130.7 | 505.3 | 42.4 | 0.0 | 0.3 | 0.0 | 505.3 | | 0.2 | 80.8 | 2.0 | | | | | | | | |
| 1191+00.00 TO 1194+04.36 | 304.4 | 1,223.0 | 102.7 | 0.0 | 0.6 | 0.0 | 1,223.0 | | 0.4 | 195.7 | 4.9 | | | | | | | | |
| 1194+04.36 TO 1194+63.75 | 59.4 | 180.2 | 15.1 | 0.0 | 0.1 | 0.0 | 180.2 | | 0.1 | 28.8 | 0.7 | | | | | | | | |
| S.N. 050-0096 BRIDGE OMISSION | | | | | | | | | | | | | | | | | | | |
| 1194+63.75 TO 1194+83.75 | 20.0 | | | | | | | | | | | | | | | | | | |
| 1194+83.75 TO 1198+75.75 | 392.0 | | | | | | | | | | | | | | | | | | |
| 1198+75.75 TO 1198+95.75 | 20.0 | | | | | | | | | | | | | | | | | | |
| 1198+95.75 TO 1200+00.00 | 104.3 | 312.7 | 26.3 | 0.0 | 0.2 | 0.0 | 312.7 | | 0.1 | 50.0 | 1.3 | | | | | | | | |
| 1200+00.00 TO 1203+00.00 | 300.0 | 877.8 | 73.7 | 0.0 | 0.4 | 0.0 | 877.8 | | 0.3 | 140.5 | 3.5 | | | | | | | | |
| 1203+00.00 TO 1212+56.74 | 956.7 | 2,787.8 | 234.2 | 0.0 | 1.4 | 0.0 | 2,787.8 | | 0.8 | | | | | | | | | | |
| 1212+56.74 TO 1213+46.74 | 90.0 | 304.9 | 26.7 | 2.1 | 0.2 | 304.85 | | | 0.1 | 48.8 | 1.2 | | | | | | | 10.3 | |
| 1213+46.74 TO 1226+00.00 | 1,253.3 | 4,247.2 | 356.8 | 178.4 | 2.1 | | | | | | | | | | | | | 142.7 | |
| 1226+00.00 TO 1227+21.50 | 121.5 | 411.4 | 34.6 | 17.3 | 0.2 | | | | 0.1 | | | | | | | | | 13.8 | |
| 1227+21.50 TO 1227+73.42 | 51.9 | 173.7 | 14.6 | 7.3 | 0.1 | | | | 0.1 | | | | | | | | | | |
| 1227+73.42 TO 1228+11.85 | 38.4 | 123.7 | 10.4 | 5.2 | 0.1 | | | | 0.0 | | | | | | | | | | |
| 1228+11.85 TO 1229+01.85 | 90.0 | 248.7 | 21.8 | 1.7 | 0.0 | | | 165.8 | 0.1 | 73.4 | 1.8 | 25.5 | | | | | 3.0 | 5.7 | |
| TOTALS | | | 6,339 | 2,701 | 37 | 1,574 | 8,436 | 819 | 21 | 10,748 | 269 | 212 | 503 | 451 | 1,839 | 673 | 3 | 2,214 | |

PLOT DATE = 3/22/2007
 FILE NAME = c:\projects\ep2007\default.dgn
 PLOT SCALE = #SCALE#
 USER NAME = schwanterg

| REVISIONS | |
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ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULES

SCALE: VERT. _____
 HORIZ. _____
 DATE _____

DRAWN BY _____
 CHECKED BY _____

| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|---------|---------|--------------|-----------|
| 1279 | * | LASALLE | 43 | 9 |

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

*1-RS, 106,107RS-2, 108 RS-1 & I

ENTRANCES AND SIDE ROAD SCHEDULE

| STATION | ENTRANCE TYPE | SIDE | AREA | EXISTING SURFACE | HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT | INCIDENTAL HOT-MIX ASPHALT SURFACING TON | BITUMINOUS MATERIALS (PRIME COAT) GALLON | AGGREGATE (PRIME COAT) TON | TEMP RAMP SQ YD | EMBANKMENT CU YD |
|----------------------------|---------------|------|--------|------------------|----------------------------------------------|------------------------------------------|------------------------------------------|----------------------------|-----------------|------------------|
| | | | SQ YD | | SQ YD | | | | | |
| 1012+62.25 | PE | LT | 29.36 | BIT/AGG | 7.26 | 3.1 | 2.3 | 0.1 | | |
| 1025+09.83 | CE | RT | 50.00 | AGG | | 5.3 | 18.8 | 0.1 | | |
| 1053+07.87 | SD RD | LT | 150.40 | OIL & CHIP | | 8.4 | 12.0 | 0.3 | | 3.0 |
| 1053+12.09 | SD RD | RT | 188.00 | BIT | 57.78 | 19.7 | 15.0 | 0.4 | 14.4 | 3.0 |
| 1079+53.15 | PE | LT | 31.14 | BIT | 8.01 | 3.3 | 2.5 | 0.1 | | |
| 1079+59.19 | SD RD | RT | 160.67 | BIT/AGG | 45.33 | 16.9 | 12.9 | 0.3 | 11.3 | 3.0 |
| 1088+63.32 | SD RD | RT | 146.25 | BIT | 47.87 | 15.4 | 11.7 | 0.3 | 12.0 | 3.0 |
| 1101+30.33 | PE | RT | 33.84 | AGG | | 3.6 | 12.7 | 0.1 | | |
| 1102+08.00 | CE | RT | 39.60 | BIT | 11.40 | 4.2 | 3.2 | 0.1 | | |
| 1106+15.23 | SD RD | LT | 178.28 | OIL & CHIP | | 10.0 | 14.3 | 0.4 | | 3.0 |
| 1112+46.73 | PE | RT | 37.78 | BIT | 10.67 | 4.0 | 3.0 | 0.1 | | |
| 1114+48.00 | PE | RT | 29.89 | AGG | | 3.1 | 11.2 | 0.1 | | |
| 1117+55.98 | FE | LT | 26.62 | BIT/ AGG | 6.22 | 2.8 | 2.1 | 0.1 | | |
| 1128+84.80 | PE | LT | 28.89 | BIT/ AGG | 7.11 | 3.0 | 2.3 | 0.1 | | |
| 1130+36.99 | PE | RT | 30.00 | AGG | | 3.2 | 11.3 | 0.1 | | |
| 1131+00.26 | PE | RT | 33.33 | BIT/AGG | 8.89 | 3.5 | 2.7 | 0.1 | | |
| 1135+48.56 | PE | RT | 44.44 | BIT/AGG | 13.33 | 4.7 | 3.6 | 0.1 | | |
| 1160+96.60 | SD RD | RT | 104.55 | BIT/AGG | 40.00 | 11.0 | 8.4 | 0.2 | 10.0 | 3.0 |
| 1175+34.18 | CE | RT | 141.50 | CONC | NO WORK | | | 0.3 | | |
| 1181+01.45 | SD RD | LT | 206.75 | BIT | 65.49 | 21.7 | 16.5 | 0.4 | 16.4 | 3.0 |
| 1181+33.95 | PE | RT | 33.33 | BIT/AGG | 8.89 | 3.5 | 2.7 | 0.1 | | |
| 1183+54.03 | PE | RT | 66.72 | AGG | | 7.0 | 25.0 | 0.1 | | |
| 1185+61.20 | PE | LT | 44.44 | BIT/AGG | 13.33 | 4.7 | 3.6 | 0.1 | | |
| 1187+45.19 | SD RD | RT | 108.17 | BIT/AGG | 50.00 | 11.4 | 8.7 | 0.2 | 12.5 | 3.0 |
| 1187+87.11 | PE | LT | 33.33 | BIT | 8.89 | 3.5 | 2.7 | 0.1 | | |
| 1189+88.53 | SD RD | RT | 112.83 | BIT/AGG | 46.44 | 11.8 | 9.0 | 0.2 | 11.6 | 3.0 |
| 1200+43.39 | SD RD | RT | 184.00 | BIT | 67.11 | 19.3 | 14.7 | 0.4 | 16.8 | 3.0 |
| 1205+36.03 | SD RD | LT | 150.95 | BIT | 100.63 | 15.8 | 12.1 | 0.3 | 15.1 | 3.0 |
| 1207+55.26 | SD RD | LT | 132.67 | BIT | 26.22 | 13.9 | 10.6 | 0.3 | 6.6 | 3.0 |
| 1212+33.55 | PE | LT | 33.89 | AGG | | 3.6 | 12.7 | 0.1 | | |
| 1213+17.19 | PE | RT | 37.78 | AGG | | 4.0 | 14.2 | 0.1 | | |
| 1213+51.76 | PE | RT | 37.78 | BIT | 10.67 | 4.0 | 3.0 | 0.1 | | |
| 1215+05.80 | SD RD | LT | 119.50 | BIT/AGG | 50.00 | 12.5 | 9.6 | 0.2 | 12.5 | 3.0 |
| 1215+96.23 | PE | RT | 37.78 | BIT / AGG | 10.67 | 4.0 | 3.0 | 0.1 | | |
| 1217+25.53 | PE | RT | 34.44 | AGG | | 3.6 | 12.9 | 0.1 | | |
| 1217+65.33 | PE | LT | 23.89 | BIT / AGG | 7.11 | 2.5 | 1.9 | 0.0 | | |
| 1217+74.84 | SD RD | RT | 87.50 | OIL & CHIP | | 4.9 | 7.0 | 0.2 | | 3.0 |
| 1218+66.46 | PE | LT | 31.67 | AGG | | 3.3 | 11.9 | 0.1 | | |
| 1220+82.63 | PE | RT | 24.44 | BIT / AGG | 5.33 | 2.6 | 2.0 | 0.0 | | |
| 1222+13.42 | PE | RT | 33.72 | BIT / CONC | 9.07 | 3.5 | 2.7 | 0.1 | | |
| 1224+28.97 | PE | RT | 24.44 | BIT / AGG | 5.33 | 2.6 | 2.0 | 0.0 | | |
| 1226+20.82 | CE | RT | 29.67 | BIT / AGG | 7.42 | 3.1 | 2.4 | 0.1 | | |
| 1227+80.76 | PE | LT | 19.89 | BIT | 3.51 | 2.1 | 1.6 | 0.0 | | |
| 1227+96.78 | SD RD | RT | 304.83 | BIT | 116.22 | 32.0 | 24.4 | 0.6 | 29.1 | 3.0 |
| 1228+20.54 | SD RD | LT | 141.83 | AGG | | 14.9 | 53.2 | 0.3 | 6.9 | 3.0 |
| MAILBOX TURNOUTS - 11 EACH | | | 333.64 | | | | | | | |
| TOTALS | | | | | 876 | 378 | 446 | 7 | 175 | 48 |

PLOT DATE = 3/22/2007
 FILE NAME = c:\projects\ep22001\detailed.dgn
 PLOT SCALE = 1/8"=1'-0"
 USER NAME = schwenkerg

| REVISIONS | | ILLINOIS DEPARTMENT OF TRANSPORTATION |
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| NAME | DATE | |
| | | SCHEDULES |
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| SCALE: VERT. | DRAWN BY | CHECKED BY |
| DATE | HORIZ. | |

| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|------------------------------------|---------|---------------------------|--------------|-----------|
| 1279 | * | LASALLE | 43 | 10 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |
| *1-RS, (106.107)RS-2, 108 RS-1 & I | | | | |

| EARTH EXCAVATION | | | | | |
|------------------------------------|---------------|------------------------|-----------------------------------------------|------------------|---------------------------------------------------|
| LOCATION | DISTANCE FEET | EARTH EXCAVATION CU YD | EARTH EXCAVATION ADJUSTED FOR SHRINKAGE CU YD | EMBANKMENT CU YD | EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) CU YD |
| S.N. 050-2041 | | | | | |
| STA. 1029+90.00 TO STA. 1035+35.00 | 545 | 507 | 380.3 | 204.0 | 176.3 |
| S.N. 050-2040 | | | | | |
| STA. 1116+95.00 TO STA. 1125+00.00 | 805 | 1370 | 1027.5 | 909 | 118.5 |
| TOTALS | | 1877 | 1408 | 1113 | 295 |

COLUMN 4 = EARTH EXCAVATION ADJUSTED USING SHRINKAGE FACTOR OF 25%

| SEEDING | | | | | | |
|------------------|-----------------------|----------------------------------|------------------------------------|-----------------------------------|-------------------------------|------------------------------------------|
| LOCATION | SEEDING, CLASS 2 ACRE | NITROGEN FERTILIZER NUTRIENT LBS | PHOSPHORUS FERTILIZER NUTRIENT LBS | POTASSIUM FERTILIZER NUTRIENT LBS | EROSION CONTROL BLANKET SQ YD | HEAVY DUTY EROSION CONTROL BLANKET SQ YD |
| AT S.N. 050-2040 | 0.70 | 63 | 63 | 63 | 3063 | 317 |
| AT S.N. 050-2041 | 0.33 | 30 | 30 | 30 | 1026 | 582 |
| TOTALS | 1.03 | 93 | 93 | 93 | 4089 | 899 |

| THERMOPLASTIC PAVEMENT MARKING | | | | | | | |
|--------------------------------|--------|---------------------------|--------------|--------------|-------------|--------------|--|
| STA. TO STA. | LENGTH | LETTERS AND SYMBOLS SQ FT | LINE 4 INCH | | LINE 8 INCH | LINE 12 INCH | |
| | | | YELLOW FOOT | WHITE FOOT | WHITE FOOT | YELLOW FOOT | |
| 1001+29.02 TO 1006+90.00 | 560.98 | 78 | 2,025 | 1,122 | 94 | 92 | |
| TOTALS | | 78 | 2,025 | 1,122 | 94 | 92 | |

| GUARDRAIL | | | | | |
|--------------------------------------|----------------------------------------|-------------------------------------------------------|---------------------------------------------------------|------------------------|--------------------------------|
| LOCATION | STEEL PLATE BEAM GUARDRAIL TYPE A FEET | STEEL PLATE BEAM GUARDRAIL ATTACHED TO STRUCTURE FEET | TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT) EACH | GUARDRAIL REMOVAL FEET | GUARDRAIL MARKERS, TYPE A EACH |
| AT S.N. 050-2040 (EX. S.N. 050-0154) | | | | | |
| WEST SIDE | 587.5 | | 2 | 520 | 6 |
| EAST SIDE | 262.5 | | 2 | 221 | 4 |
| SUBTOTAL | 850 | 0 | 4 | 741 | 10 |
| AT S.N. 050-2041 (EX. S.N. 050-0153) | | | | | |
| WEST SIDE | 225 | 37.5 | 2 | 244 | 4 |
| EAST SIDE | 225 | 37.5 | 2 | 194 | 4 |
| SUBTOTAL | 450 | 75 | 4 | 438 | 8 |
| TOTALS | 1300 | 75 | 8 | 1179 | 18 |

50' TBT TYPE 1 TO BE SALVAGED FROM NORTHWEST QUADRANT OF EXISTING S.N. 050-0153

| STONE RIPRAP | | | |
|--------------------|---------|-----------|------------------------------|
| LOCATION | SIDE | LENGTH FT | STONE RIPRAP, CLASS A4 SQ YD |
| S.N. 050-2041 | LT & RT | | 53 |
| S.N. 050-2040 | LT & RT | | 164 |
| 1123+00 TO 1124+50 | RT | 150 | 193 |
| TOTALS | | | 410 |

| PAVED DITCH | | | |
|--------------------|------|----------------|------------------------|
| STA. TO STA. | SIDE | PAVED DITCH FT | PAVED DITCH REMOVAL FT |
| 1117+20 TO 1119+20 | | | 207 |
| 1117+20 TO 1119+00 | RT | 180 | |
| 1117+67 TO 1119+27 | | | 158 |
| 1117+67 TO 1119+00 | LT | 133 | |
| TOTALS | | 313 | 365 |

| HOT-MIX ASPHALT SURFACE REMOVAL, 3/4" | | | |
|---------------------------------------|-----------|----------|---------------------------------------------|
| STA TO STA | LENGTH FT | WIDTH FT | HOT-MIX ASPHALT SURFACE REMOVAL, 3/4" SQ YD |
| 1006+17.80 TO 1117+20.00 | 11102.20 | 30 | 37,007 |
| 1124+55.00 TO 1188+00.00 | 6345.00 | 26 | 18,330 |
| 1212+80.00 TO 1227+98.35 | 1518.35 | 26 | 4,386 |
| TOTAL | | | 59,724 |

| PAINT PAVEMENT MARKING | | | | | |
|--------------------------|-----------|---------------|---------------|--------------|------------|
| STA. TO STA. | LENGTH | LINE 4 INCH | | LINE 6 INCH | |
| | | YELLOW FOOT | WHITE FOOT | YELLOW FOOT | WHITE FOOT |
| 1006+90.00 TO 1229+01.85 | 22,211.85 | 22,018 | 44,424 | 3,620 | |
| TOTALS | | 22,018 | 44,424 | 3,620 | |

| TREE REMOVAL | | | |
|----------------------------------------------------------------|---------------------------------------|---------------------------------------|---------------------|
| LOCATION | TREE REMOVAL (6 TO 15 UNITS DIAMETER) | TREE REMOVAL (OVER 15 UNITS DIAMETER) | TREE REMOVAL, ACRES |
| | UNITS | UNITS | ACRES |
| S.N. 050-2041 NORTHEAST QUADRANT | 15 | | |
| S.N. 050-2040 NORTHEAST QUADRANT | 42 | 32 | |
| S.N. 050-2040 WEST SIDE OF IL 178 STA. 1117+07 TO STA. 1124+74 | | | 0.37 |
| TOTALS | 57 | 32 | 0.4 |

| PERMANENT SURVEY MARKERS | | | |
|--------------------------|-----|----|----|
| STATION LOCATION | POT | PC | PT |
| 1002+00.00 | 1 | | |
| 1025+00.00 | 1 | | |
| 1053+91.02 | | 1 | |
| 1066+86.24 | | | 1 |
| 1099+58.31 | | 1 | |
| 1101+78.33 | | | 1 |
| 1108+89.91 | | 1 | |
| 1111+79.19 | | | 1 |
| 1129+05.54 | | 1 | |
| 1136+34.65 | | | 1 |
| 1144+94.76 | | 1 | |
| 1152+79.86 | | | 1 |
| 1189+39.96 | | 1 | |
| 1194+32.59 | | | 1 |
| 1201+08.42 | | 1 | |
| 1206+64.49 | | | 1 |
| 1225+00.00 | 1 | | |

| GEOTECHNICAL FABRIC FOR GROUND STABILIZATION | |
|----------------------------------------------|------------|
| LOCATION | SQ YD |
| S.N. 050-2040 | 361 |
| S.N. 050-2041 | 312 |
| TOTAL | 673 |

| TEMPORARY CONCRETE BARRIER WALL | | |
|---------------------------------|---------------------|------------------------------|
| STA TO STA | BARRIER WALL LIN FT | RELOCATE BARRIER WALL LIN FT |
| S.N. 050-2041 | | |
| STAGE I | | |
| 1030+90 TO 1032+00 | 110 | |
| 1032+00 TO 1033+00 | 100 | |
| 1033+00 TO 1034+10 | 110 | |
| STAGE II | | |
| 1030+90 TO 1032+00 | | 110 |
| 1032+00 TO 1033+00 | | 100 |
| 1033+00 TO 1034+10 | | 110 |
| SUBTOTALS | 320 | 320 |
| S.N. 050-2040 | | |
| STAGE I | | |
| 1118+20 TO 1119+50 | 130 | |
| 1119+50 TO 1120+50 | 100 | |
| 1120+50 TO 1121+80 | 130 | |
| STAGE II | | |
| 1118+20 TO 1119+50 | | 130 |
| 1119+50 TO 1120+50 | | 100 |
| 1120+50 TO 1121+80 | | 130 |
| SUBTOTALS | 360 | 360 |
| TOTALS | 680 | 680 |

| POROUS GRANULAR EMBANKMENT | | | |
|----------------------------|----------------------------------|------------------------------------------|-----------------------|
| STRUCTURE | POROUS GRANULAR EMBANKMENT CU YD | POROUS GRANULAR EMBANKMENT SPECIAL CU YD | UNSUITABLE SOIL CU YD |
| 050-2040 | 1710 | 460 | 489 |
| 050-2041 | 585 | 140 | 166 |
| TOTAL | 2295 | 600 | 655 |

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULES

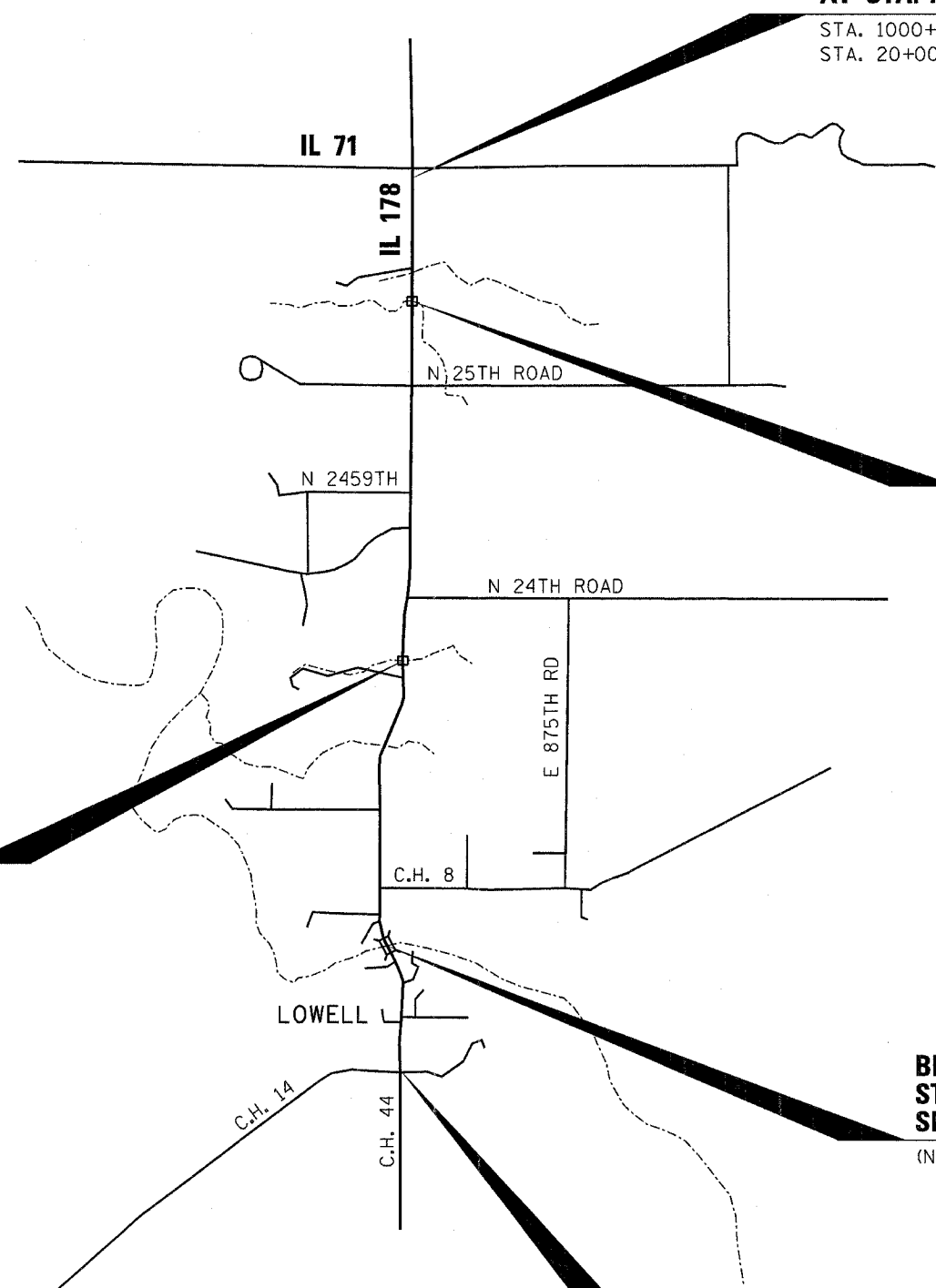
SCALE: VERT. _____ HORIZ. _____ DATE _____ DRAWN BY _____ CHECKED BY _____

| F. A. & REE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|---------|---------|------------------|-----------|
| 1279 | * | LASALLE | 43 | 11 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | BLMMS | FED. AID PROJECT | |

*1-RS, (106,107)RS-2, 108 RS-1 & I

**PROJECT BEGINS SOUTH
OF INTERSECTION WITH IL 71
AT STA. 1001 + 29.02**

STA. 1000+00 ILL RTE. 178 =
STA. 20+00 ILL RTE. 71



**STA. 1032 + 49.18
PROPOSED SN 050-2041
EXISTING SN 050-0153**

SECTION 1071
STRUCTURE NO. 050-2041
(EXISTING S.N. 050-0153)
10'x6' PRECAST CONCRETE
DOUBLE BOX CULVERT
60' IN LENGTH WITH TWO
CAST-IN-PLACE HEADWALLS

**STA. 1120 + 02.38
PROPOSED SN 050-2040
EXISTING SN 050-0154**

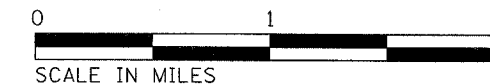
SECTION 1071
STRUCTURE NO. 050-2040
(EXISTING S.N. 050-0154)
12'x8' PRECAST CONCRETE
DOUBLE BOX CULVERT
72' IN LENGTH WITH TWO
CAST-IN-PLACE HEADWALLS
15° SKEW

**BRIDGE OMISSION
STA. 1194 + 63.75 TO STA. 1198 + 95.75
SN 050-0096**

(NO WORK REQUIRED)

**PROJECT ENDS SOUTH
OF INTERSECTION WITH C.H. 14
AT STA. 1229 + 01.85**

STA. 1227+98.35 ILL RTE. 178 =
STA. 15+03.03 C.H. 14



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

LOCATION MAP

SCALE: VERT.
HORIZ.
DATE

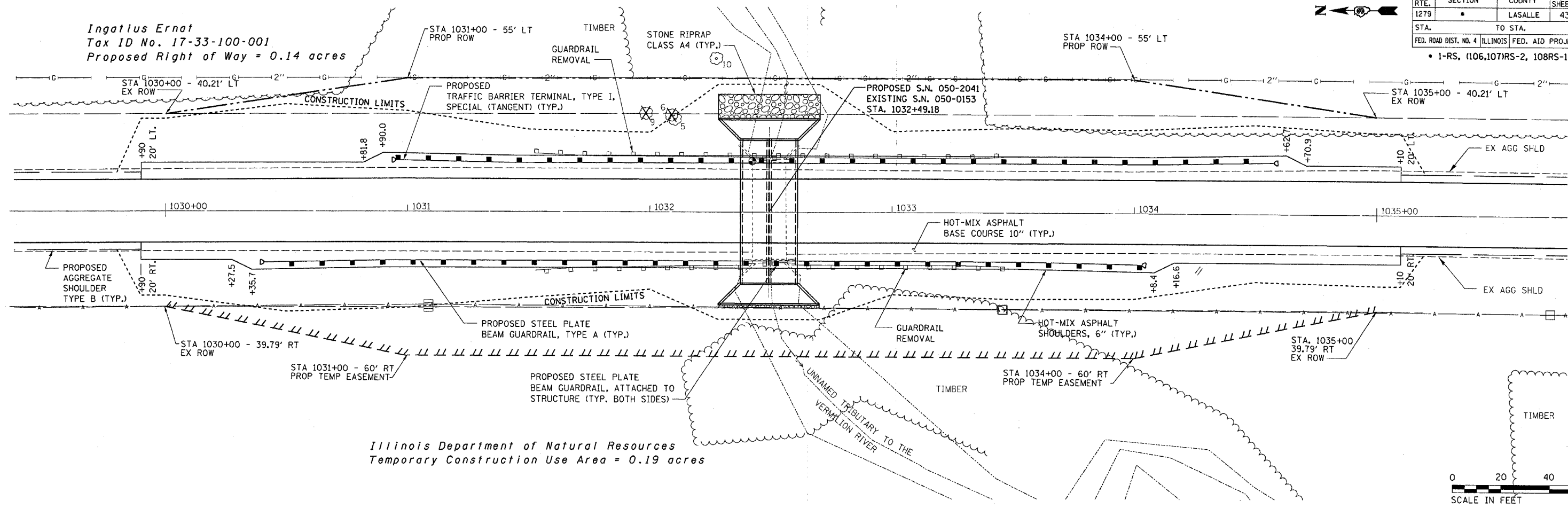
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CHECKED BY

DATE: TIME: c:\projects\ep02001\defat1.s.dgn

| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|------------------------------------|---------|-------------------------------------------------|--------------|-----------|
| 1279 | * | LASALLE | 43 | 12 |
| STA. TO STA. | | FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT | | |
| * 1-RS, (106,107)RS-2, 108RS-1 & 1 | | | | |

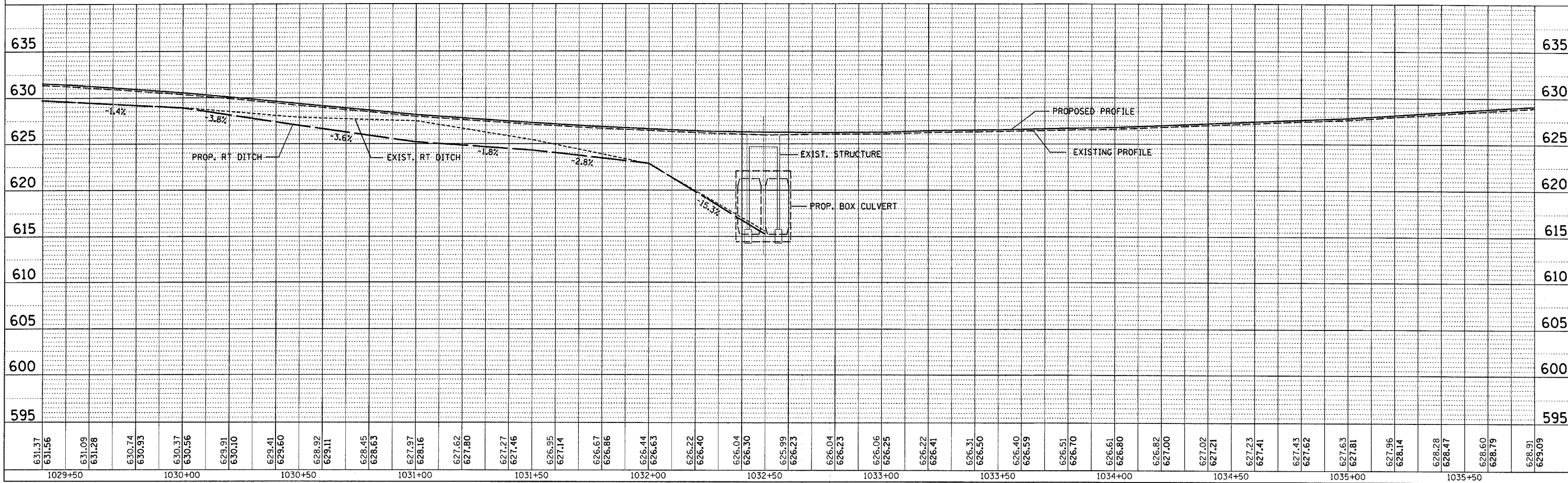
Ingatius Ernat
Tax ID No. 17-33-100-001
Proposed Right of Way = 0.14 acres

Illinois Department of Natural Resources
Temporary Construction Use Area = 0.19 acres



| | |
|------|----|
| DATE | BY |
| | |
| DATE | BY |
| | |
| DATE | BY |
| | |

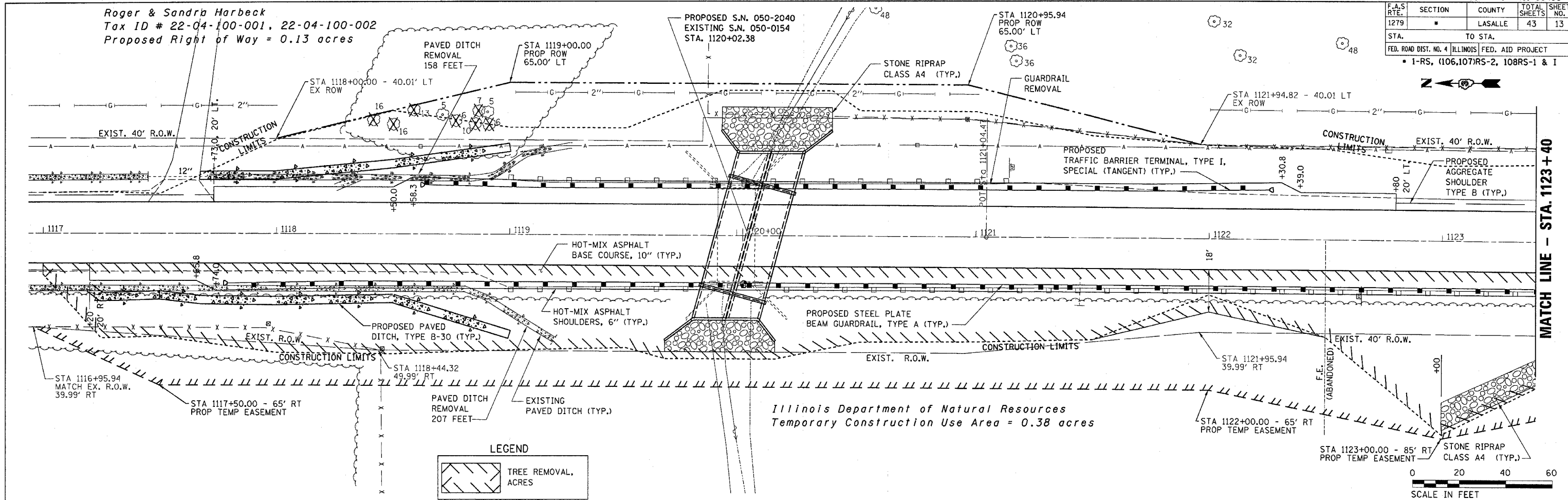
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|------|----|
| DATE | BY |
| | |
| DATE | BY |
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| DATE | BY |
| | |



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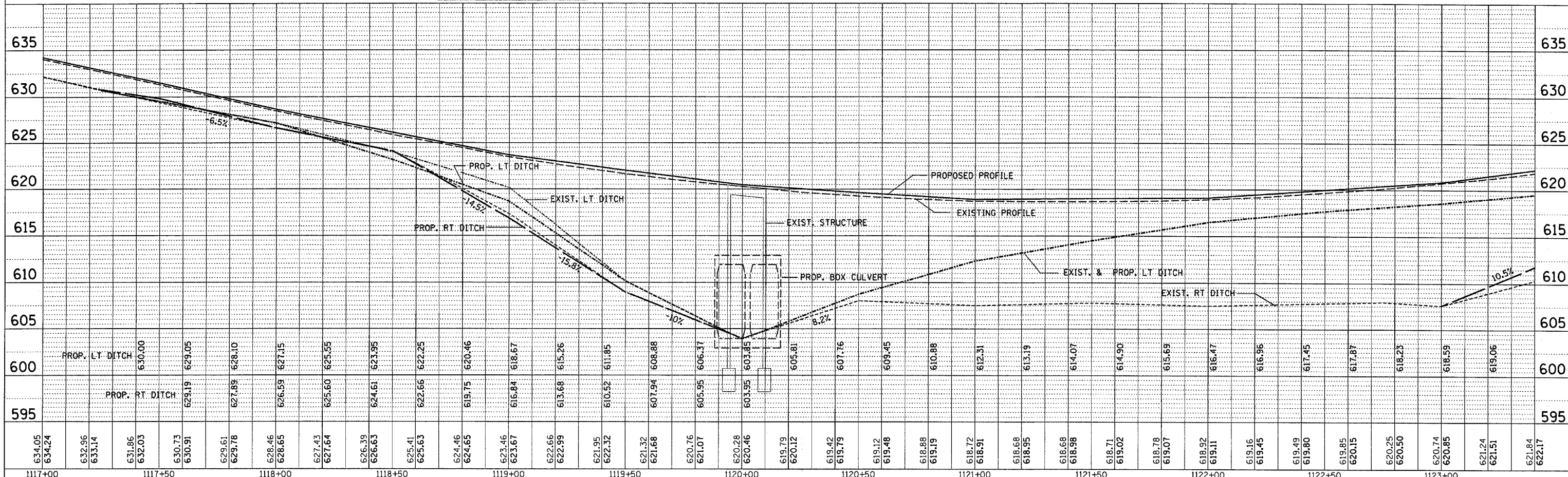
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------|---------|-------------------------------------------------|--------------|-----------|
| 1279 | * | LASALLE | 43 | 13 |
| STA. TO STA. | | FED. ROAD DIST. NO. 4 ILLINOIS FED. AID PROJECT | | |
| | | * I-RS, (106,107)RS-2, 108RS-1 & I | | |

Roger & Sandra Harbeck
 Tax ID # 22-04-100-001, 22-04-100-002
 Proposed Right of Way = 0.13 acres



| | | |
|------|--------------------|------|
| PLAN | SURVEYED | DATE |
| | PLOTTED | |
| | CHECKED | |
| | BY | |
| | NO. OF WAY CHECKED | |
| | PAID FILE NAME | |

| | | |
|---------|--------------------------|------|
| PROFILE | SURVEYED | DATE |
| | PLOTTED | |
| | CHECKED | |
| | BY | |
| | NO. OF WAY CHECKED | |
| | STRUCTURE NOTATIONS CHFD | |



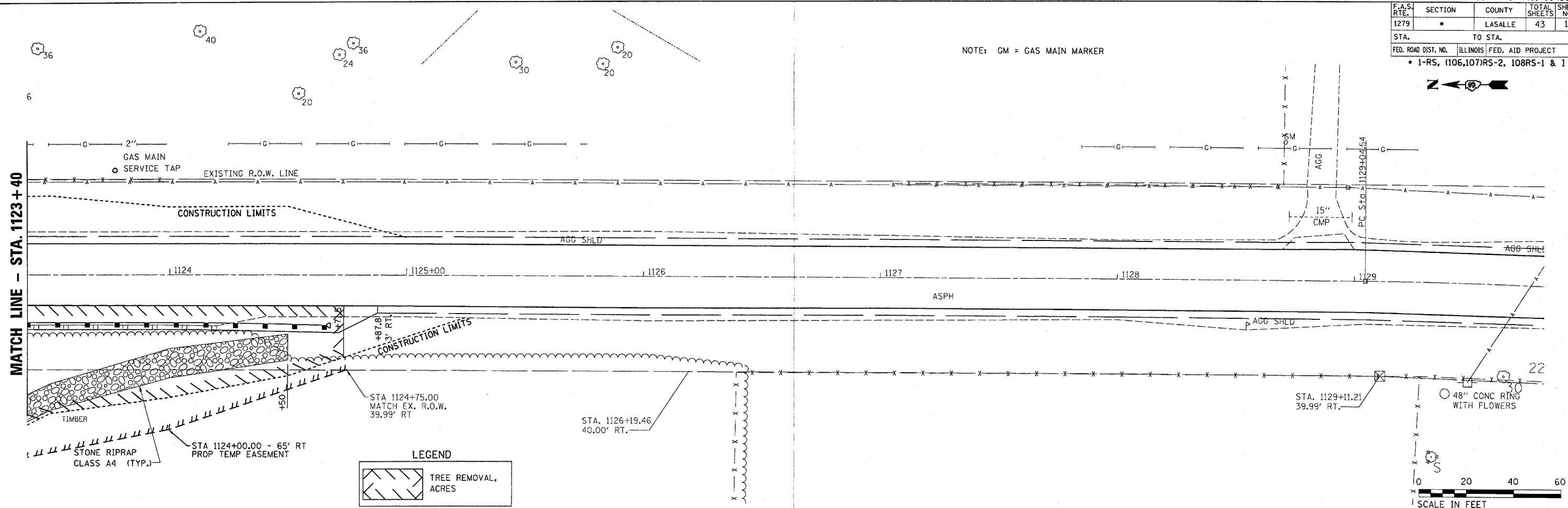
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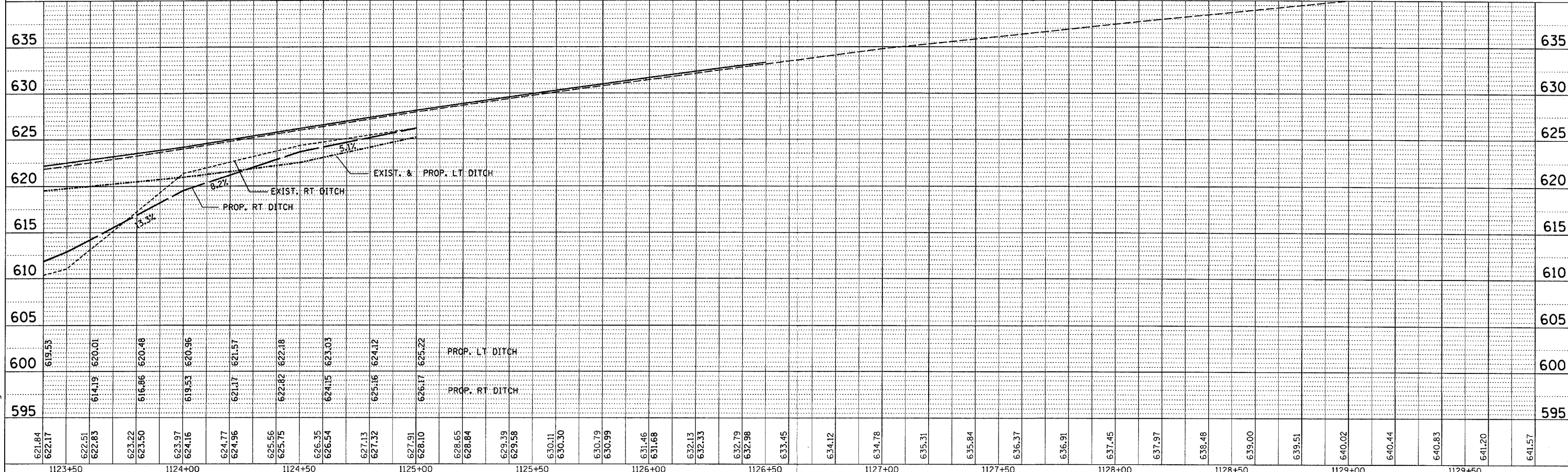
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|------------------------------------|---------|---------------------------|--------------|-----------|
| 1279 | * | LASALLE | 43 | 14 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |
| • 1-RS, (106,107)RS-2, 108RS-1 & 1 | | | | |

NOTE: GM = GAS MAIN MARKER

| | |
|------|--|
| DATE | |
| BY | |
| PLAN | |
| NO. | |
| DATE | |
| BY | |
| PLAN | |
| NO. | |



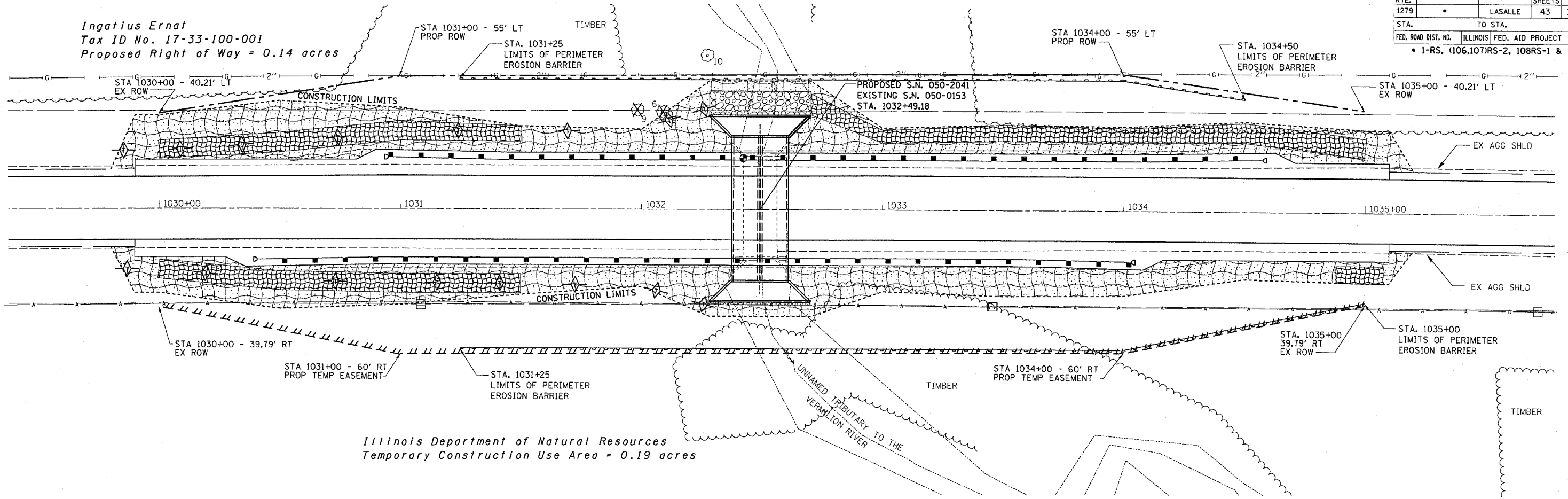
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| BY | |
| PROFILE | |
| NO. | |
| DATE | |
| BY | |
| PROFILE | |
| NO. | |



PLOT DATE = 4/11/2007
 FILE NAME = c:\projects\66400\consult\plan\plan.dgn
 PLOT SCALE = 1"=40'
 USER NAME = schmidt

| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|---------|------------------------------------|--------------|-----------|
| 1279 | | LASALLE | 43 | 14A |
| STA. TO STA. | | ILLINOIS FED. AID PROJECT | | |
| FED. ROAD DIST. NO. | | • 1-RS, (106,107)RS-2, 108RS-1 & I | | |

Ingatius Ernat
Tax ID No. 17-33-100-001
Proposed Right of Way = 0.14 acres



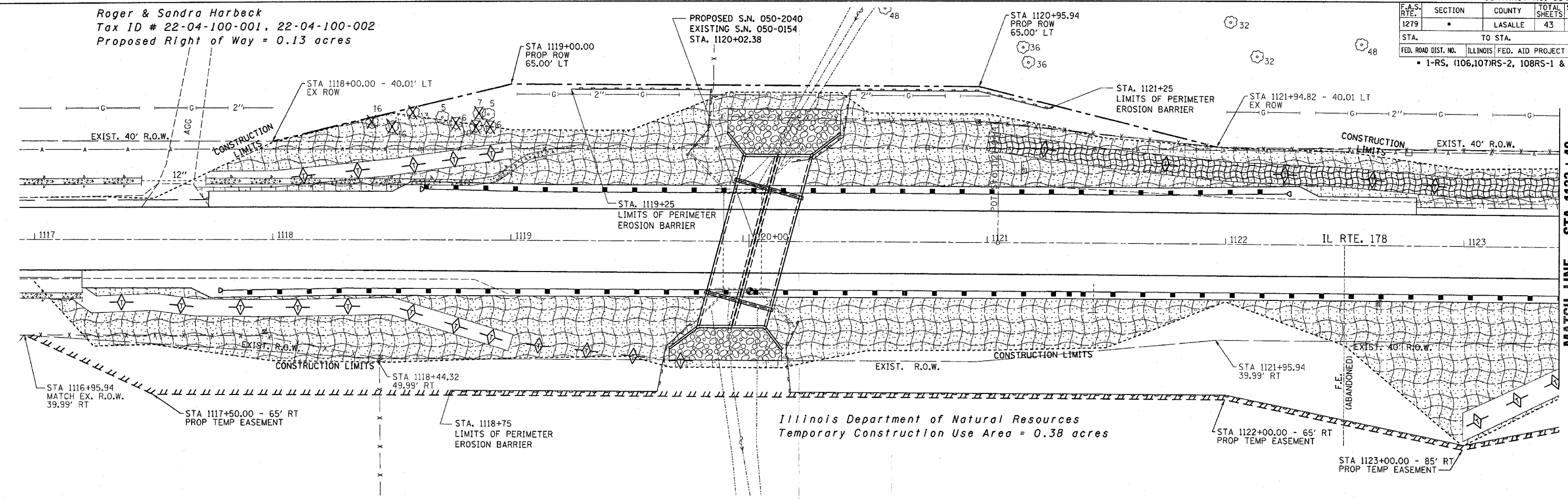
Illinois Department of Natural Resources
Temporary Construction Use Area = 0.19 acres

LEGEND

| | | | |
|--|------------------------------------|--|---------------------------|
| | TEMPORARY DITCH CHECK | | PERIMETER EROSION BARRIER |
| | EROSION CONTROL BLANKET | | SEEDING, CLASS 2 |
| | HEAVY DUTY EROSION CONTROL BLANKET | | |

| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------------------------------------------|---------|---------|--------------|-----------|
| 1279 | | LASALLE | 43 | 14B |
| STA. TO STA. | | | | |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | |
| • 1-RS, (106,107)RS-2, 108RS-1 & I | | | | |

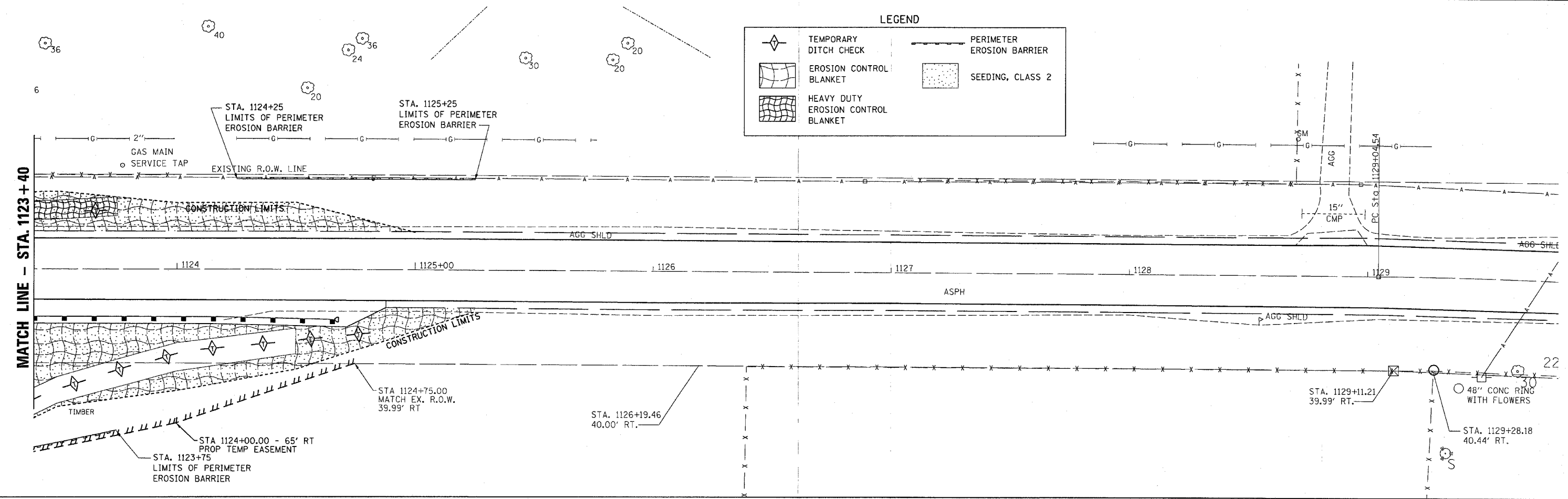
Roger & Sandra Harbeck
 Tax ID # 22-04-100-001, 22-04-100-002
 Proposed Right of Way = 0.13 acres



MATCH LINE - STA. 1123 + 40

LEGEND

- TEMPORARY DITCH CHECK
- EROSION CONTROL BLANKET
- HEAVY DUTY EROSION CONTROL BLANKET
- PERIMETER EROSION BARRIER
- SEEDING, CLASS 2

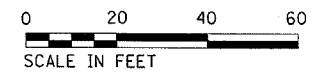
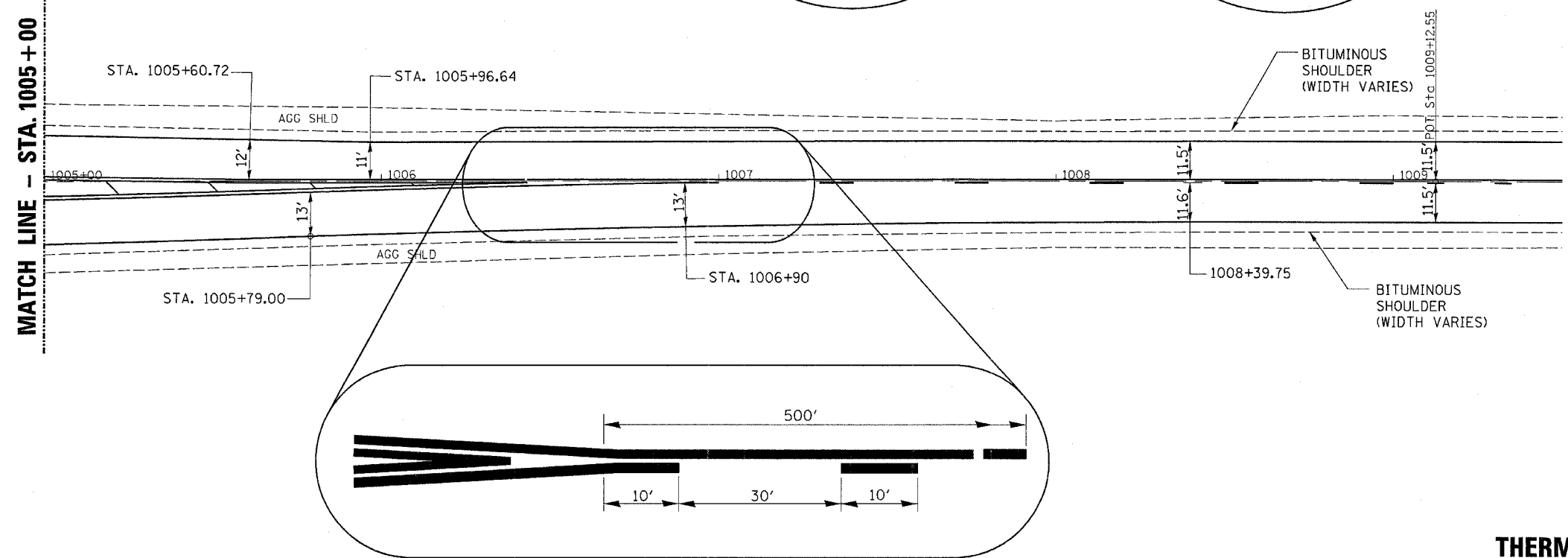
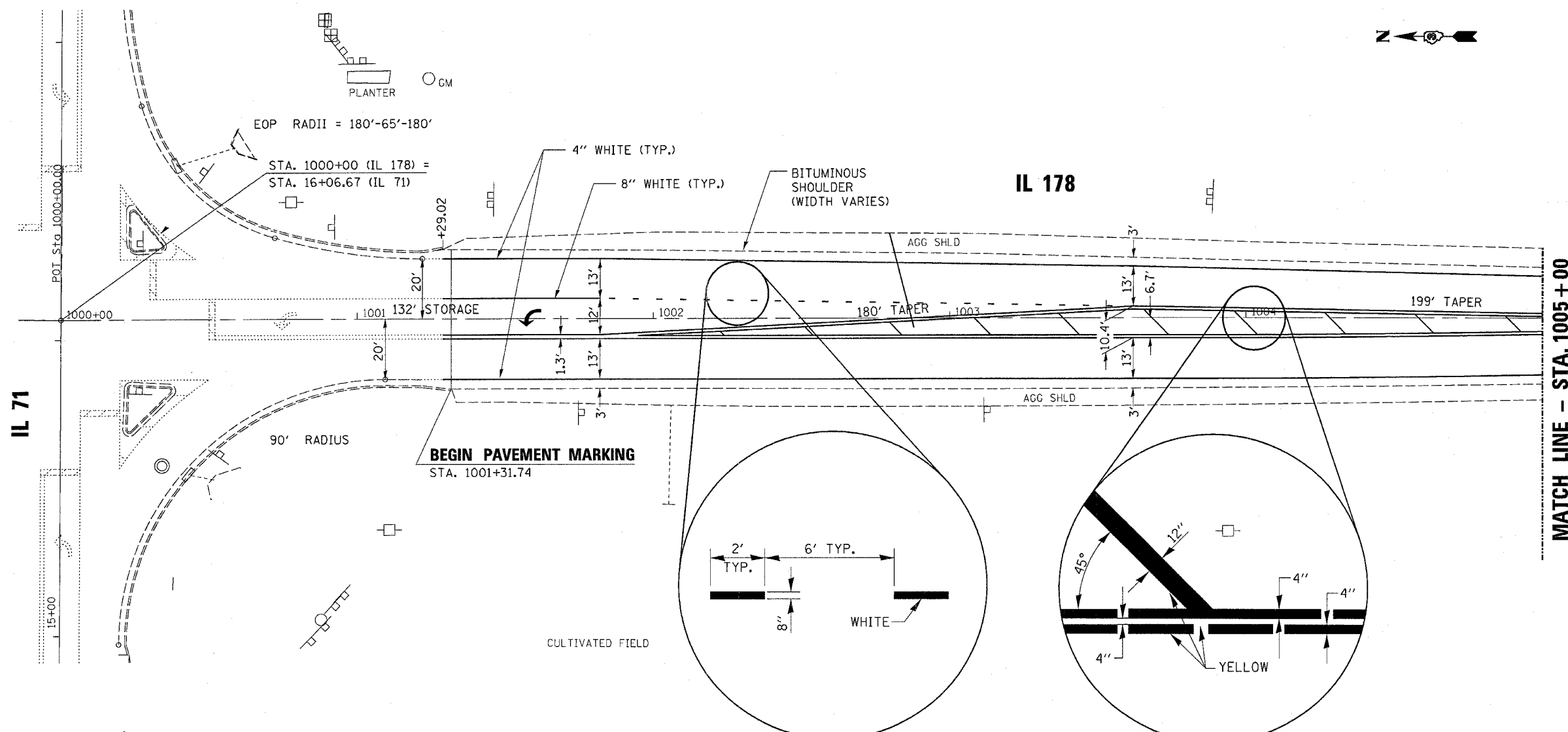


MATCH LINE - STA. 1123 + 40

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 PLOT SCALE = 1"=40'
 USER NAME = schwanberg

| F. A. L. NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|---------|----------|------------------|-----------|
| 1279 | * | LASALLE | 43 | 15 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS | FED. AID PROJECT | |

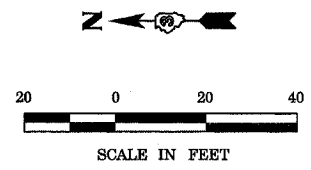
* 1-RS, (106,107)RS-2, 108 RS-1 & I



THERMOPLASTIC PAVEMENT MARKING

DATE-TIME
c:\projects\ep0200\veraf15.dgn

| FAS RTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|----------|----------------------|--------------|-----------|
| 1279 | 1071 | LaSALLE | 43 | 16 |
| STA. 1029+00 | | TO STA. 1036+00 | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT AID | | |

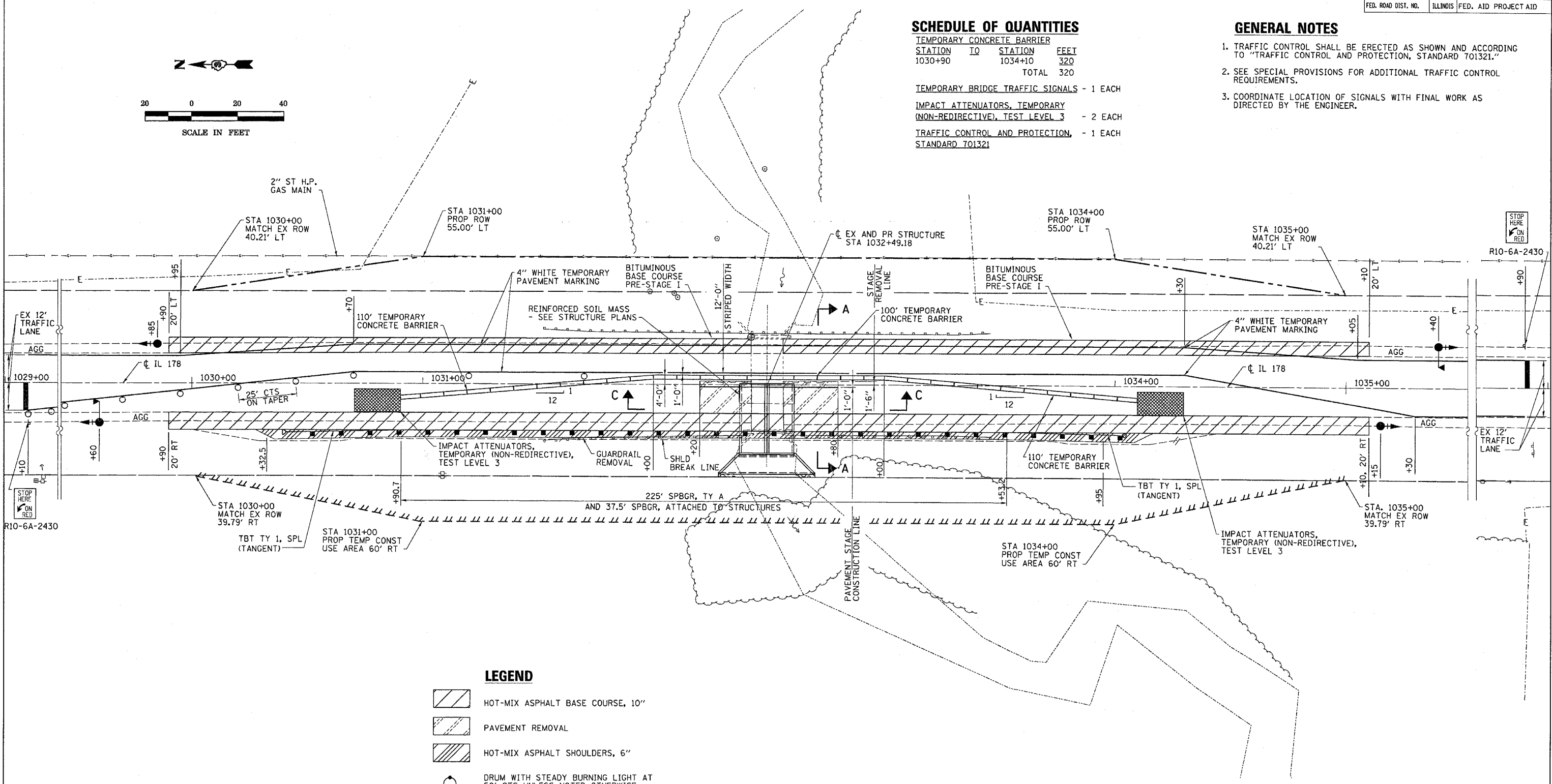


SCHEDULE OF QUANTITIES

| | | |
|------------------------------------------------------------------------|---------|-----------|
| TEMPORARY CONCRETE BARRIER | | |
| STATION TO | STATION | FEET |
| 1030+90 | 1034+10 | 320 |
| | | TOTAL 320 |
| TEMPORARY BRIDGE TRAFFIC SIGNALS - 1 EACH | | |
| IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 - 2 EACH | | |
| TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 - 1 EACH | | |

GENERAL NOTES

1. TRAFFIC CONTROL SHALL BE ERCTED AS SHOWN AND ACCORDING TO "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321."
2. SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
3. COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.



LEGEND

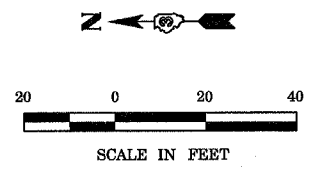
- HOT-MIX ASPHALT BASE COURSE, 10"
- PAVEMENT REMOVAL
- HOT-MIX ASPHALT SHOULDERS, 6"
- DRUM WITH STEADY BURNING LIGHT AT 50' CTS UNLESS NOTED OTHERWISE
- TRAFFIC SIGNAL WITH BACKPLATE, SIGNAL DIRECTION INDICATED
- TC 26B MICROWAVE ON ARM

ESCA
CONSULTANTS, INC.

| | | |
|--------------|-----|-------|
| DESIGNED BY: | MTD | 01/06 |
| DRAWN BY: | HAG | 01/06 |
| CHECKED BY: | MTD | 05/06 |
| APPROVED BY: | RDP | 05/06 |

STAGE I
CONSTRUCTION
FAS 1279 (IL 178)
SECTION 1071
LaSALLE COUNTY
STATION 1032+49.18

| FAS RTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|----------|----------------------|--------------|-----------|
| 1279 | 1071 | LaSALLE | 43 | 17 |
| STA. 1029+00 | | TO STA. 1036+00 | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT AID | | |



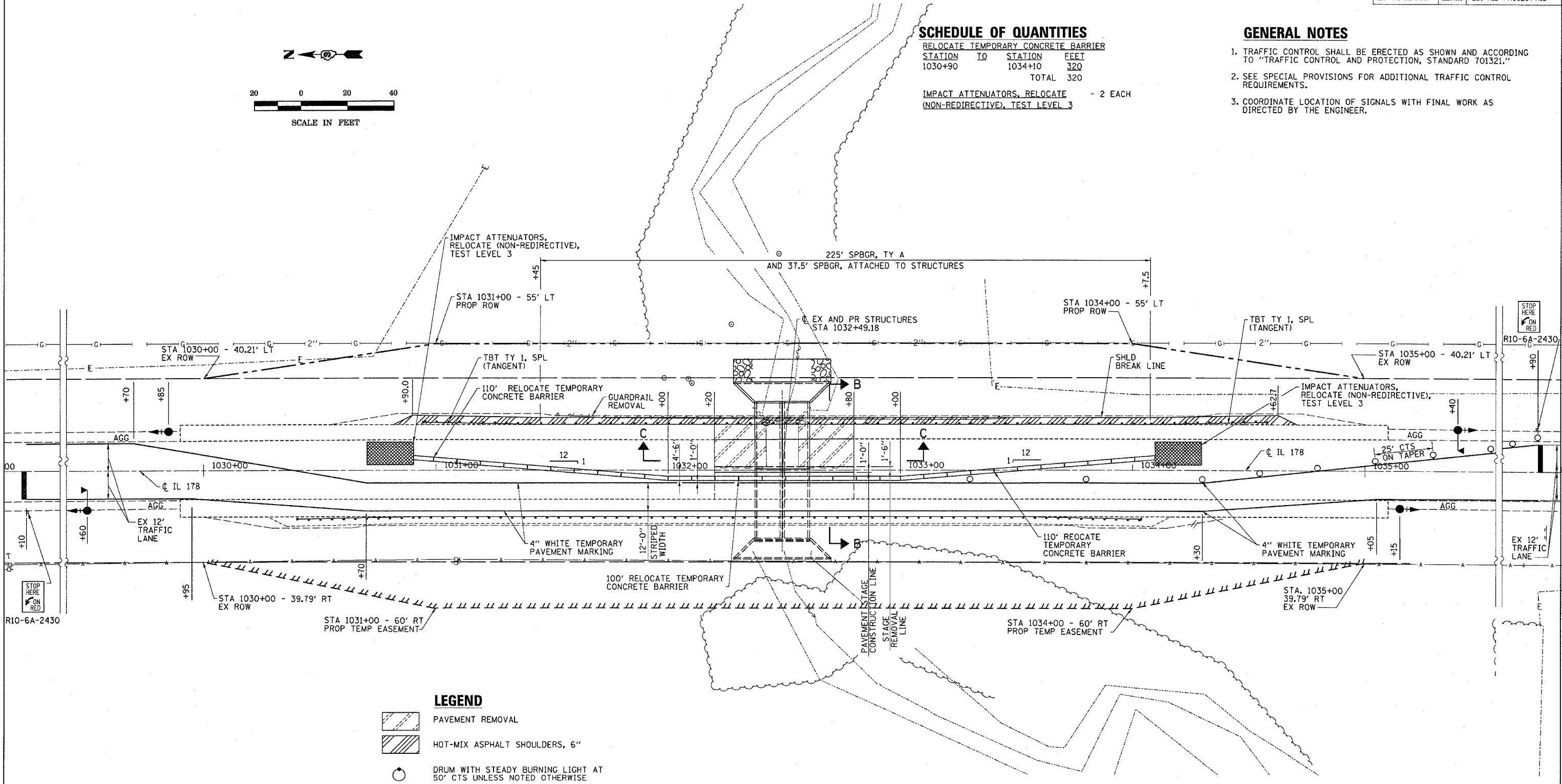
SCHEDULE OF QUANTITIES

| RELOCATE TEMPORARY CONCRETE BARRIER | STATION TO | STATION | FEET |
|-------------------------------------|------------|---------|-----------|
| | 1030+90 | 1034+10 | 320 |
| | | | TOTAL 320 |

IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3 - 2 EACH

GENERAL NOTES

1. TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN AND ACCORDING TO "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321."
2. SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
3. COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.



LEGEND

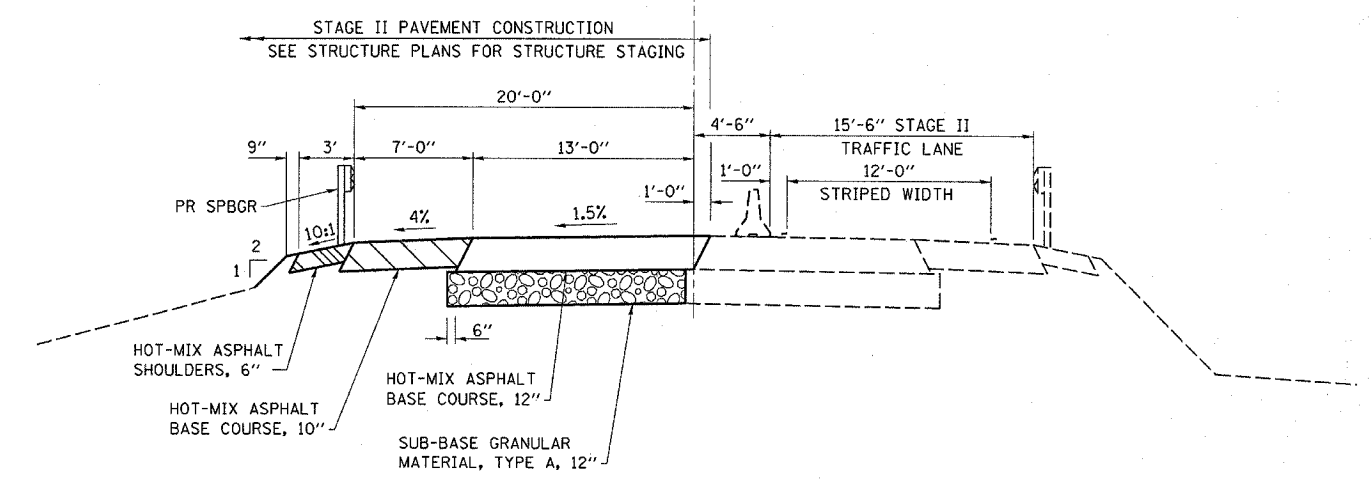
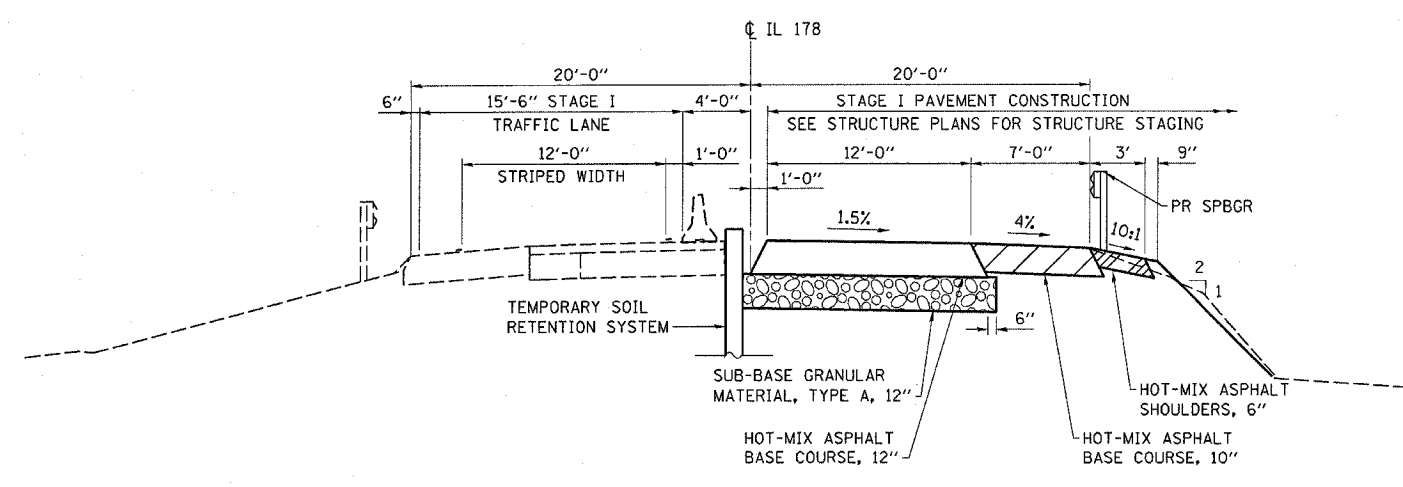
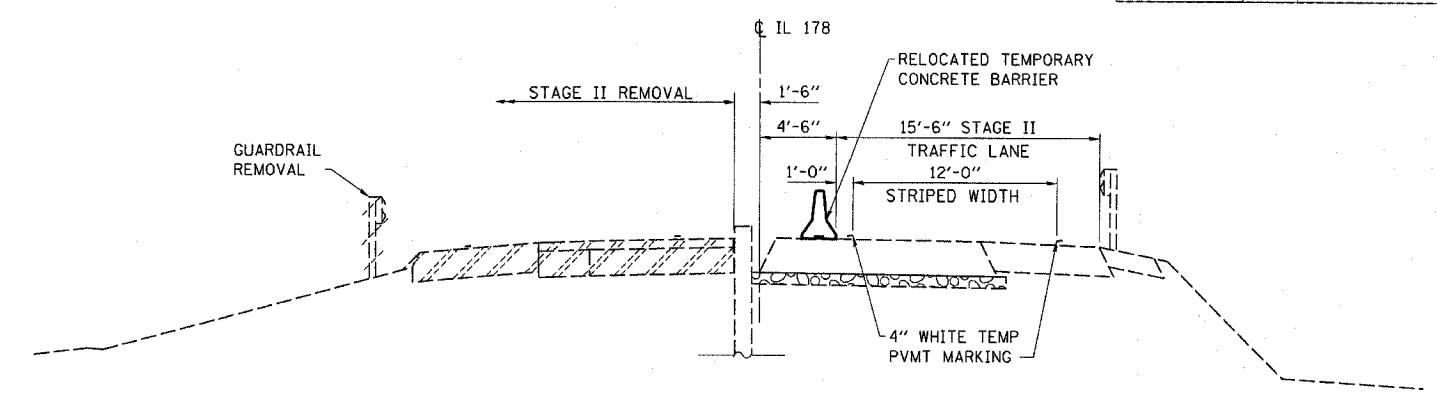
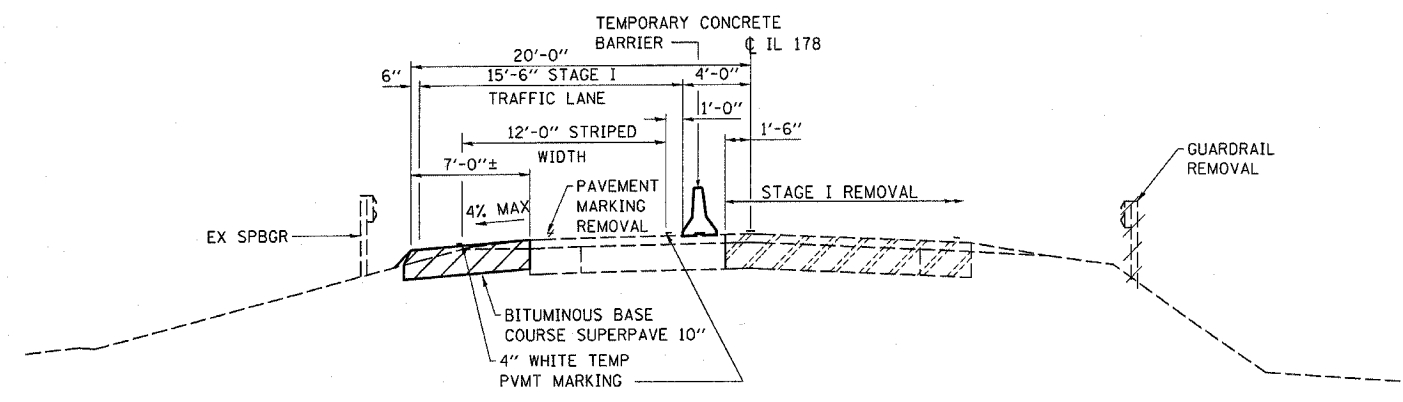
- PAVEMENT REMOVAL
- HOT-MIX ASPHALT SHOULDERS, 6"
- DRUM WITH STEADY BURNING LIGHT AT 50' CTS UNLESS NOTED OTHERWISE
- TRAFFIC SIGNAL WITH BACKPLATE, SIGNAL DIRECTION INDICATED
- TC 26B MICROWAVE ON ARM

ESCA
CONSULTANTS, INC.

| | | |
|--------------|-----|-------|
| DESIGNED BY: | MTD | 01/06 |
| DRAWN BY: | HAG | 01/06 |
| CHECKED BY: | MTD | 05/06 |
| APPROVED BY: | RDP | 05/06 |

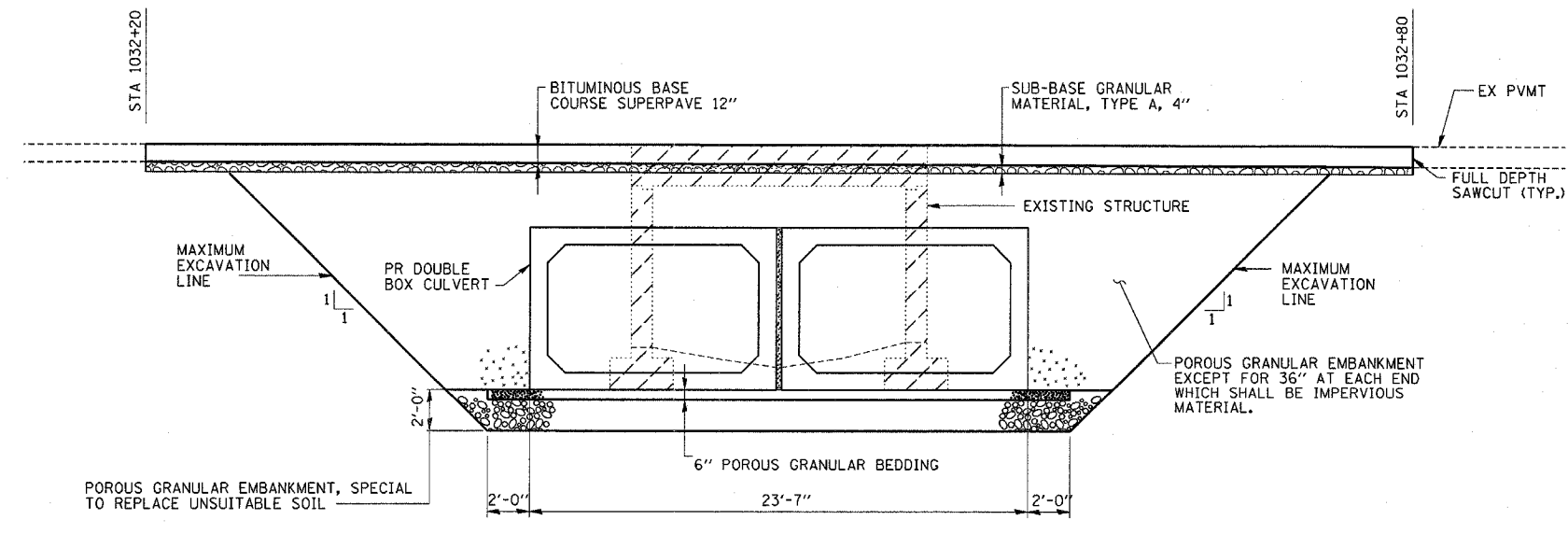
STAGE II
CONSTRUCTION
FAS 1279 (IL 178)
SECTION 1071
LaSALLE COUNTY
STATION 1032+49.18

| FAS RTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|---------|-------------------------------|--------------|-----------|
| 1279 | 1071 | LaSALLE | 43 | 18 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT AID | | |



SECTION A-A

SECTION B-B



SECTION C-C

STAGE CONSTRUCTION DETAILS
 FAS 1279 (IL 178)
 SECTION 1071
 LaSALLE COUNTY
 STATION 1032+49.18

ESCA
 CONSULTANTS, INC.

| | | |
|--------------|-----|-------|
| DESIGNED BY: | MTD | 01/06 |
| DRAWN BY: | HAG | 01/06 |
| CHECKED BY: | MTD | 05/06 |
| APPROVED BY: | RDP | 05/06 |

BENCHMARK: Chiseled "□" on East headwall of S.N. 050-0153
Sta. 1032+42.10, 20.5' Lt., Elev. 626.55

EXISTING STRUCTURE: SN 050-0153 was originally built at an unknown time and was widened in 1932 as Sec. 106. The structure is a single span reinforced concrete structure with 2 closed abutments and wingwalls on spread footings. The deck width is 42'-2" and the length is 14'-0" back to back of abutments. Traffic shall be maintained utilizing stage construction.

No salvage.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE INDEX OF SHEETS

General Plan
Stage Construction Details
Cast-in-Place Box Culvert End Section Details
Soil Boring
Temporary Concrete Barrier for Stage Construction

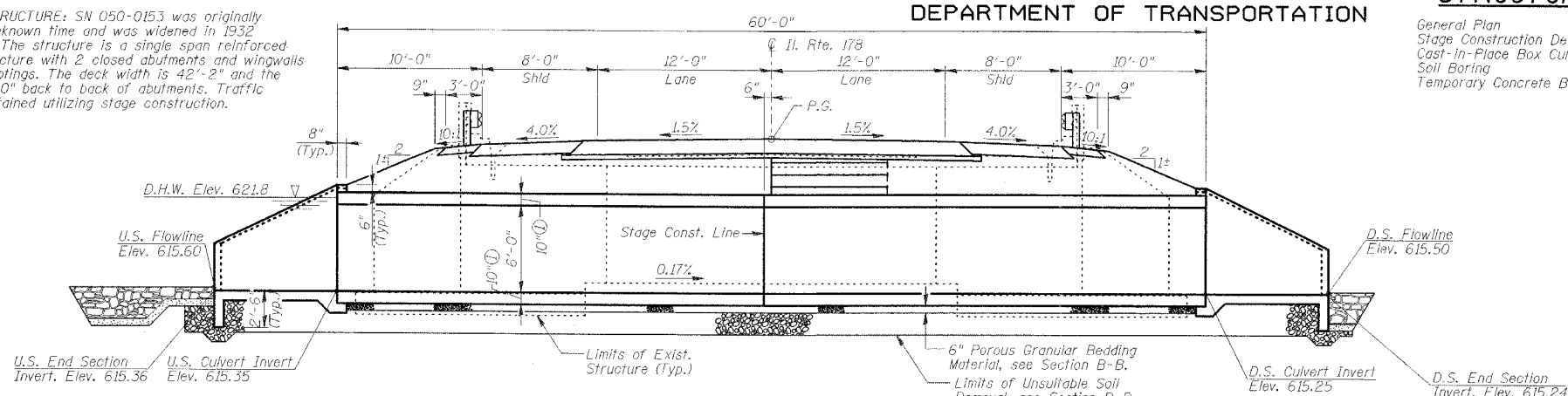
Sheet No. 1 of 5
Sheet No. 2 of 5
Sheet No. 3 of 5
Sheet No. 4 of 5
Sheet No. 5 of 5

| ROUTE NO. | SECTION | COUNTY | DATE | SHEET | SHEET NO. 1 |
|-----------|---------|---------|------|-------|-------------|
| FAS 1279 | 1071 | LaSALLE | 43 | 19 | 5 SHEETS |

CTR# 66400

GENERAL NOTES

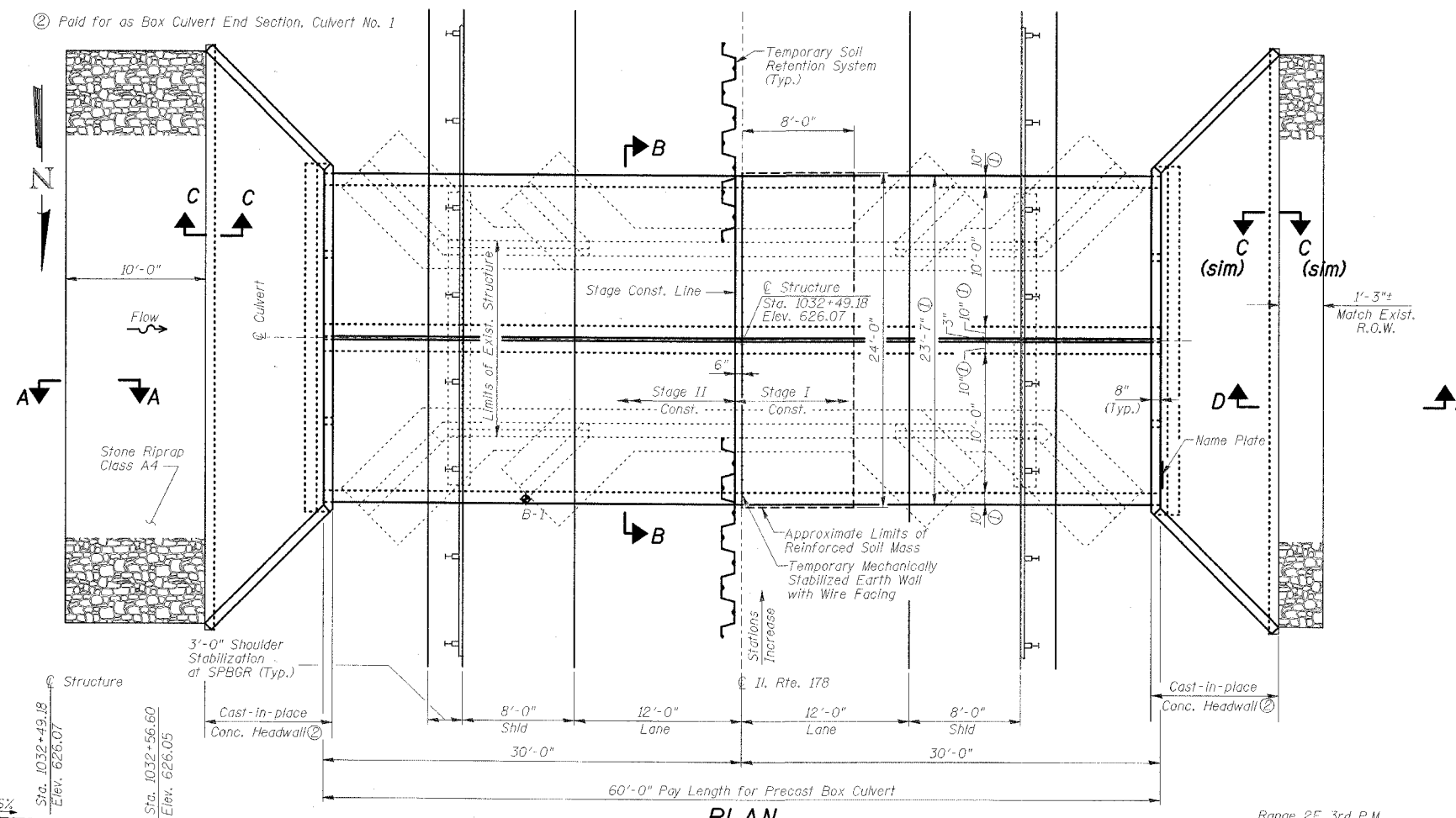
- Exposed edges shall be beveled 3/4".
- For backfilling & embankment, see Standard Specifications.
- Reinforcement bars shall conform to the requirements of AASHTO M31, M42 or M53 Grade 60.
- Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
- All construction joints shall be bonded.
- Class SI Concrete shall be used throughout the cast-in-place concrete headwalls.
- The Precast Concrete Box Culvert sections shall conform to the requirements of AASHTO M259.
- 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 I removal.



LONGITUDINAL SECTION

① Thickness of precast culvert walls and slabs shall be verified on shop drawings and coordinated for final dimensions.

② Paid for as Box Culvert End Section, Culvert No. 1



PLAN

STATION 1032+49.18
BUILT 200_ BY
STATE OF ILLINOIS
FAS ROUTE 1279 SECTION 1071
F.A. PROJECT _____
LOADING HS20
STR. NO. 050-2041

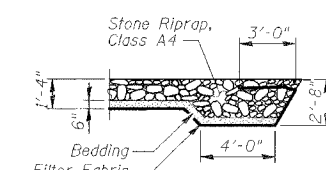
NAME PLATE

See Std. 515001

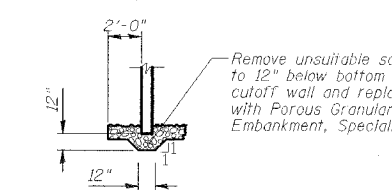
TOTAL BILL OF MATERIAL

| ITEM | UNIT | QUANTITY |
|----------------------------------------------|---------|----------|
| Stone Riprap, Class A4 | Sq. Yd. | 53 |
| Filter Fabric | Sq. Yd. | 53 |
| Removal of Existing Structures No. 1 | Each | 1 |
| Temporary Soil Retention System | Sq. Ft. | 430 |
| Name Plates | Each | 1 |
| Box Culvert End Section, Culvert No. 1 | Each | 2 |
| Precast Concrete Box Culvert 10' x 6' | Foot | 120 |
| Temporary Mechanically Stabilized Earth Wall | Sq. Ft. | 65 |

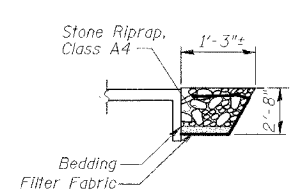
Pay items for Temporary Concrete Barriers, Excavation, Porous Granular Embankment and Porous Granular Embankment, Special are included in Roadway Plans.



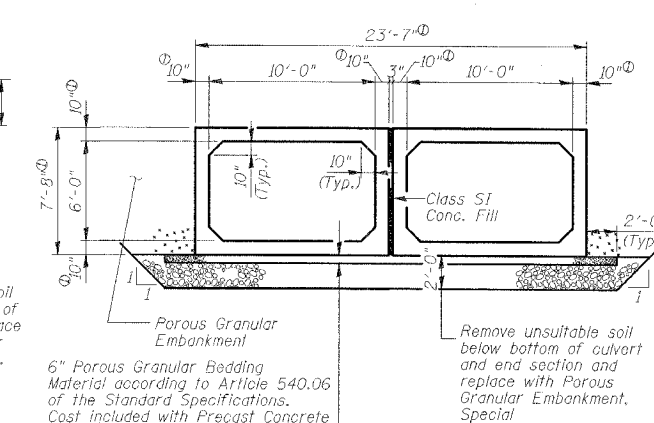
SECTION A-A



SECTION C-C



SECTION D-D



SECTION B-B

PROFILE GRADE
(Along Roadway)

ESCA CONSULTANTS, INC.

DESIGNED BY: MTD 11/04
DRAWN BY: RJT 11/04
CHECKED BY: MTD 11/04
APPROVED BY: RDP 05/06

WATERWAY INFORMATION

Drainage Area = 1.12 Sq. Mi. Low Grade Elev. 626.04 Ft. @ Sta. 1032+57

| Flood | Freq. Yr. | C.F.S. | Opening | Not. Prop. | Head-Ft. Exist. | Head-Ft. Prop. | Headwater El. Exist. | Headwater El. Prop. |
|-------------|-----------|--------|---------|------------|-----------------|----------------|----------------------|---------------------|
| Design | 50 | 500 | 63 | 120 | 621.8 | 0.7 | 0.0 | 622.5 |
| Base | 100 | 580 | 65 | 120 | 622.1 | 1.0 | 0.1 | 623.1 |
| Max. Calc. | 500 | 750 | 60 | 120 | 622.5 | 1.4 | 0.3 | 623.9 |
| Overtopping | | | | | | | | |

(*Headwater El. = W.S. El. @ Upstream Face of Proposed Structure)

DESIGN SPECIFICATIONS

2002 AASHTO
LOADING HS20-44

Allow 50 psf for future wearing surface.

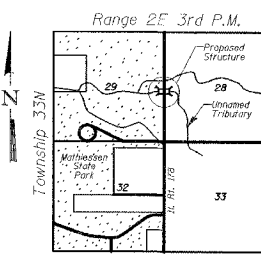
DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinf.)

PRECAST UNITS

f'c = 5,000 psi
fy = 65,000 psi (WWF)



LOCATION SKETCH

STATE OF ILLINOIS
RICHARD B. PAVE
No. 4647
REGISTERED STRUCTURAL ENGINEER

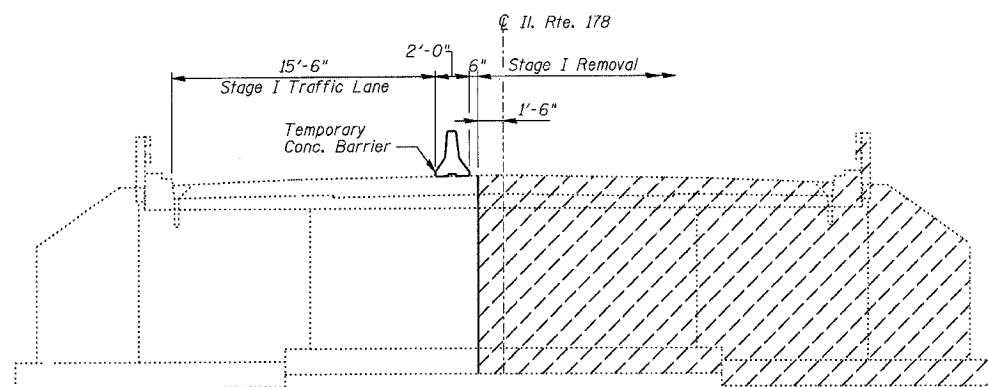
EXPIRES 11-30-06

R. J. D. Pave
SIGNATURE
6/15/06
DATE

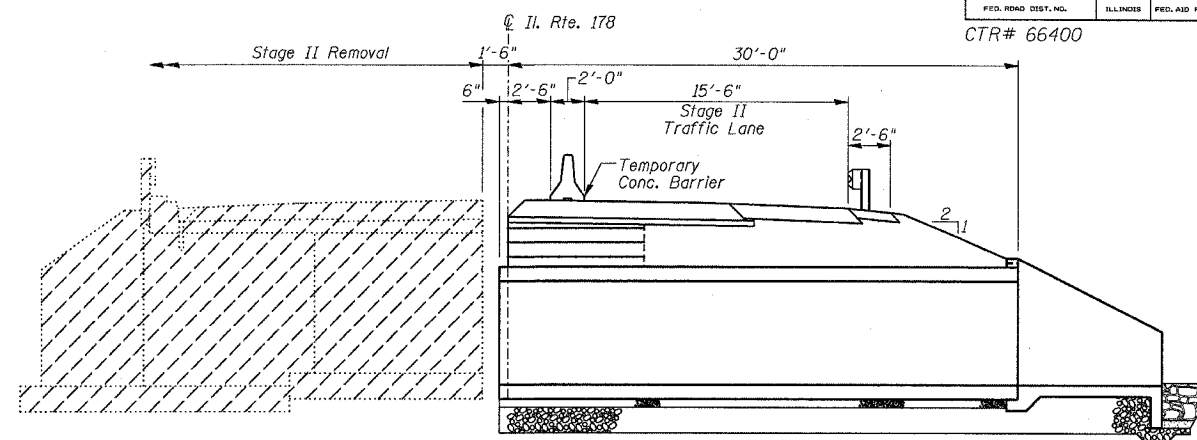
GENERAL PLAN
IL ROUTE 178 OVER
UNNAMED TRIBUTARY
FAS 1279 SECTION 1071
LaSALLE COUNTY
STATION 1032+49.18
STRUCTURE NO. 050-2041

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

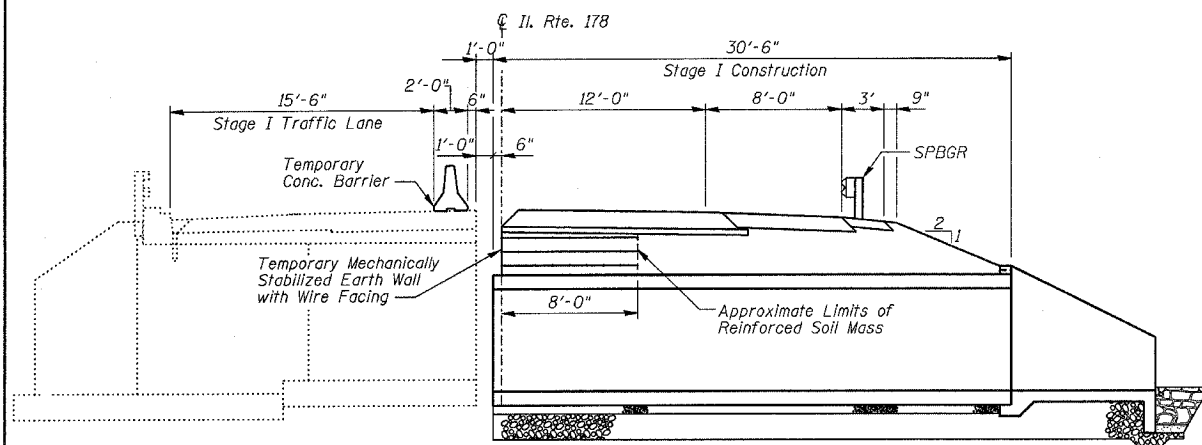
| | | | | | |
|---------------------|---------|----------|------------------|-------|-------------------------|
| ROUTE NO. | SECTION | COUNTY | DIST. | SHEET | SHEET NO. 2 5 SHEETS |
| FAS 1279 | 1071 | LaSALLE | 43 | 20 | |
| FED. ROAD DIST. NO. | | ILLINOIS | FED. AID PROJECT | | |
| CTR# 66400 | | | | | |



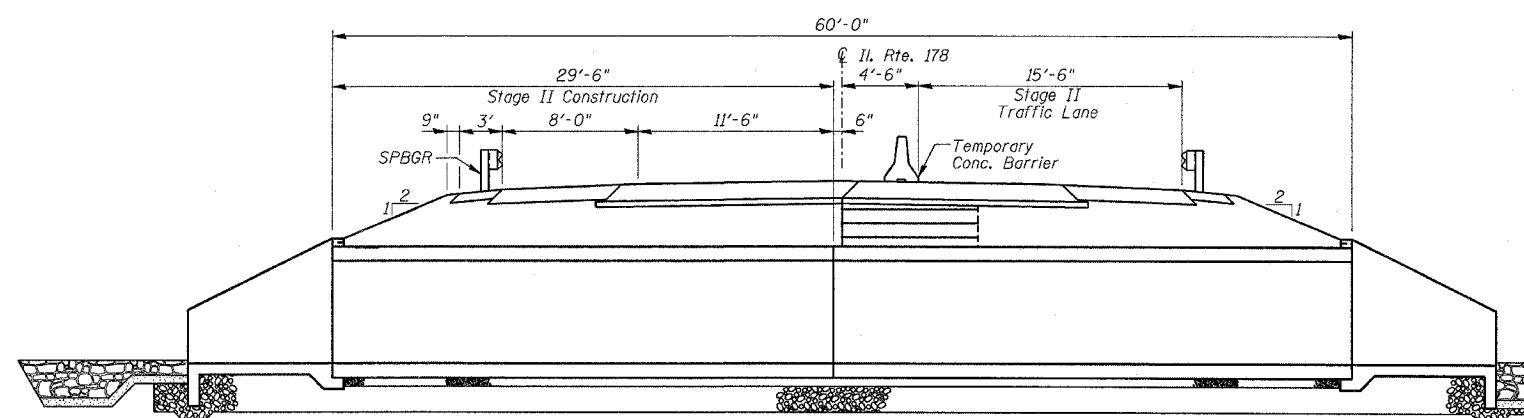
STAGE I REMOVAL



STAGE II REMOVAL



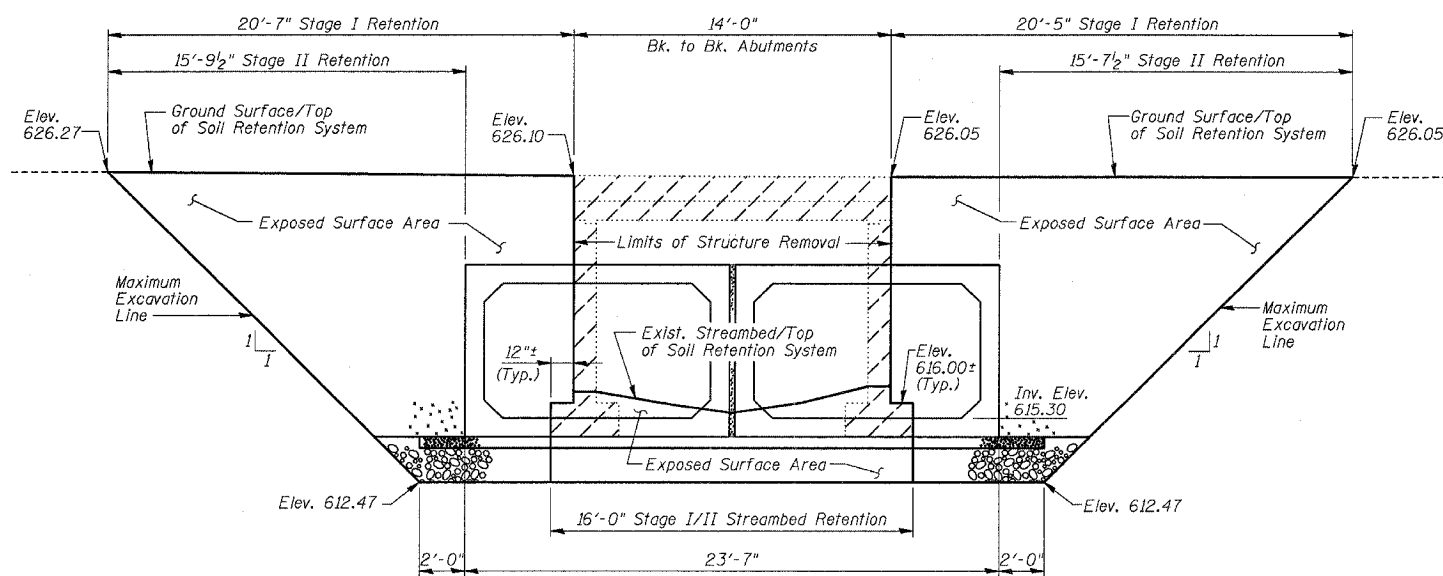
STAGE I CONSTRUCTION



STAGE II CONSTRUCTION

STAGE CONSTRUCTION SECTIONS

(Looking South)



TEMPORARY SOIL RETENTION SYSTEM LIMITS

A cantilever 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 acceptance by the Engineer.

NOTES

1. Hatched areas indicate "Removal of Existing Structures."
2. For details of Temporary Concrete Barrier see Dwg. No. 5 of 5.
3. Removal of existing bridge rail is included with "Removal of Existing Structures."

STAGE CONSTRUCTION
DETAILS
IL ROUTE 178 OVER
UNNAMED TRIBUTARY
FAS 1279 SECTION 1071
LaSALLE COUNTY
STATION 1032+49.18
STRUCTURE NO. 050-2041

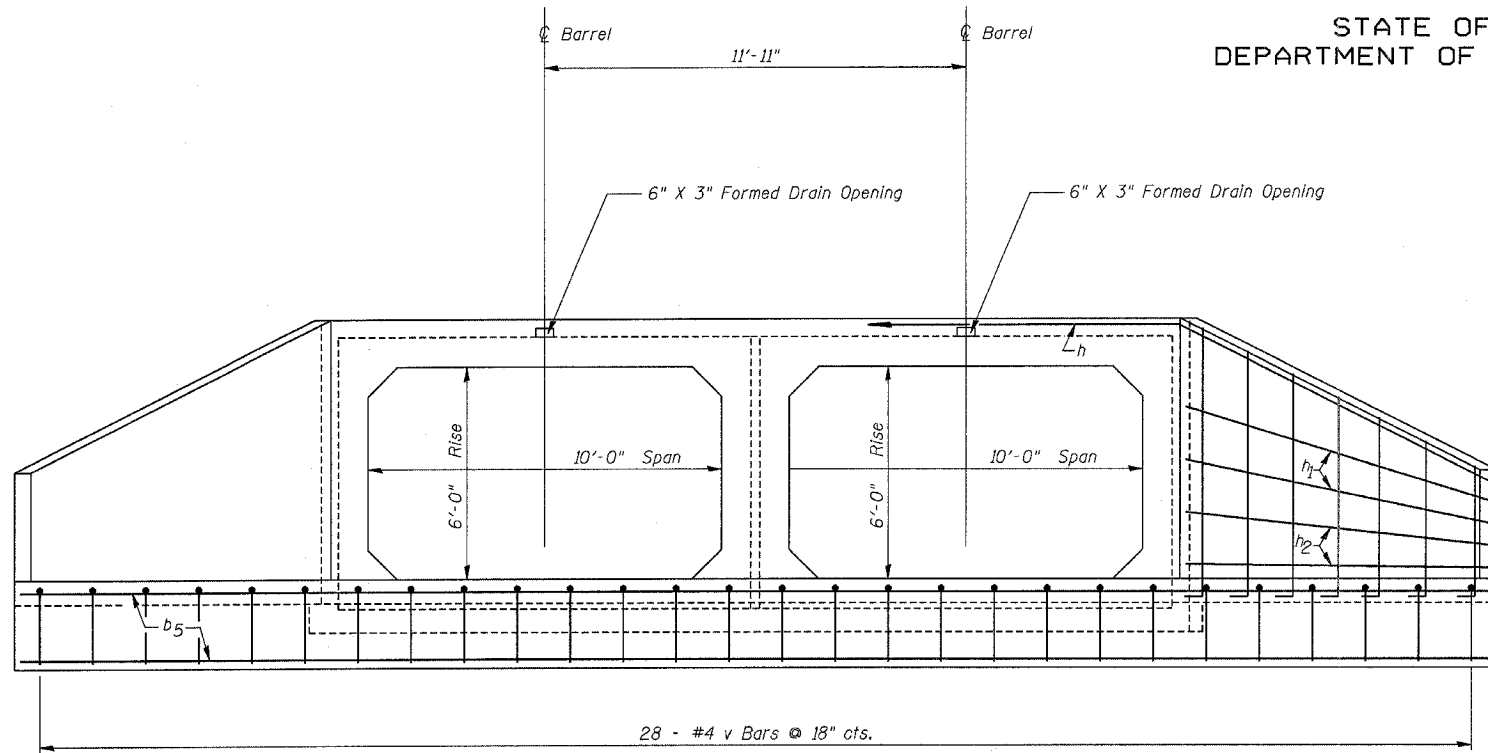
ESCA
CONSULTANTS, INC.

| | | |
|--------------|-----|-------|
| DESIGNED BY: | MTD | 11/04 |
| DRAWN BY: | RJT | 11/04 |
| CHECKED BY: | MTD | 11/04 |
| APPROVED BY: | RDP | 05/06 |

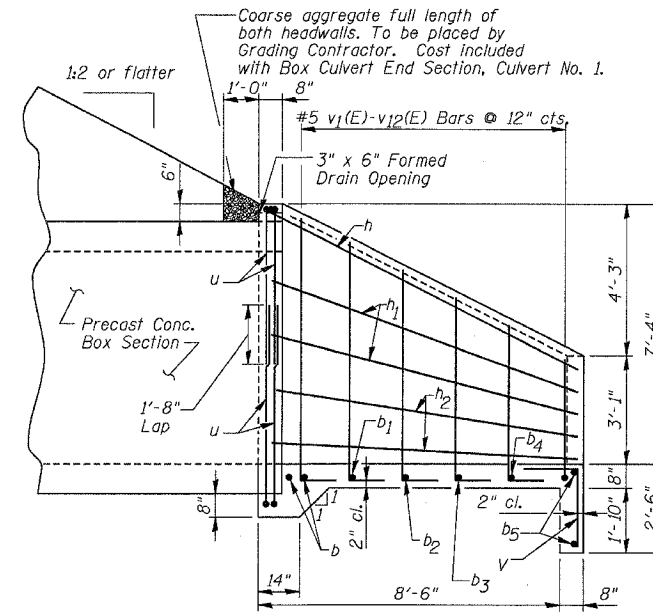
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | | | | | |
|-----------------------|-----------------|-------------------|-----------------|------------------|-------------------------|
| ROUTE NO. FAS 1279 | SECTION 1071 | COUNTY LaSALLE | SHEET NO. 43 | SHEET 21 | SHEET NO. 3 5 SHEETS |
| FED. ROAD DIST. NO. | | ILLINOIS | | FED. AID PROJECT | |

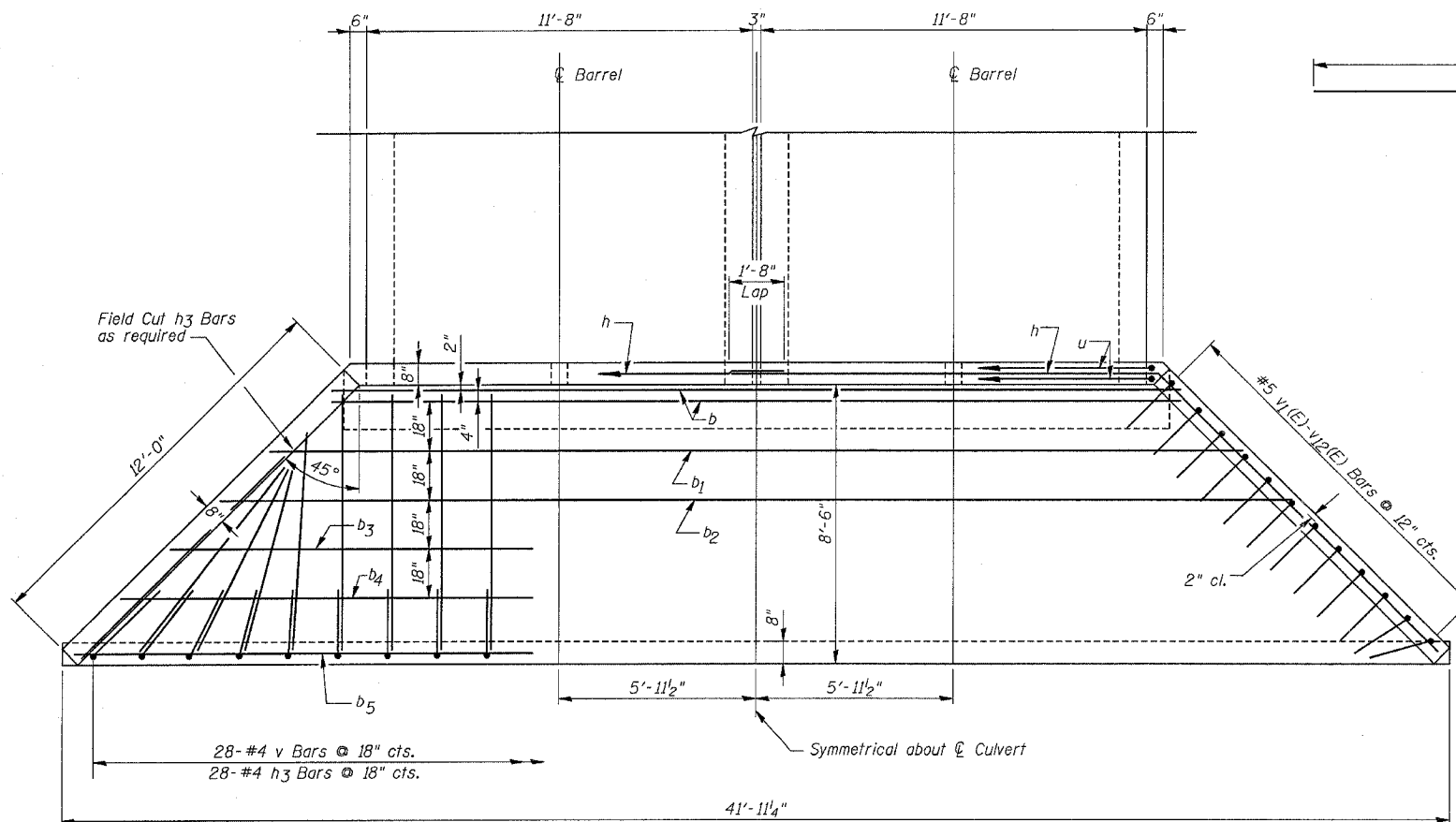
CTR# 66400



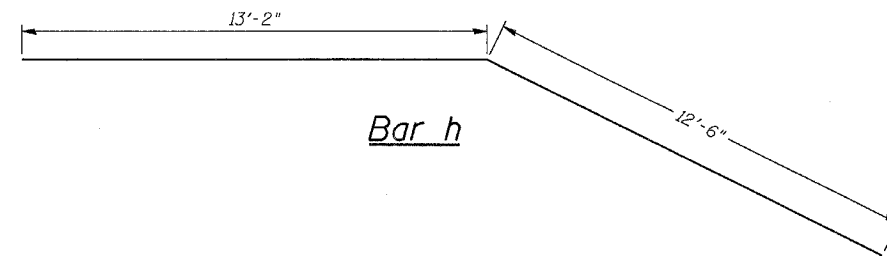
END ELEVATION



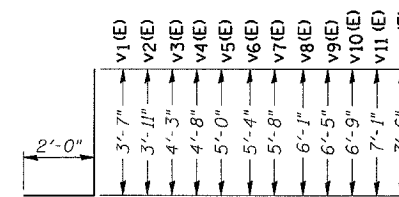
HALF SIDE ELEVATION



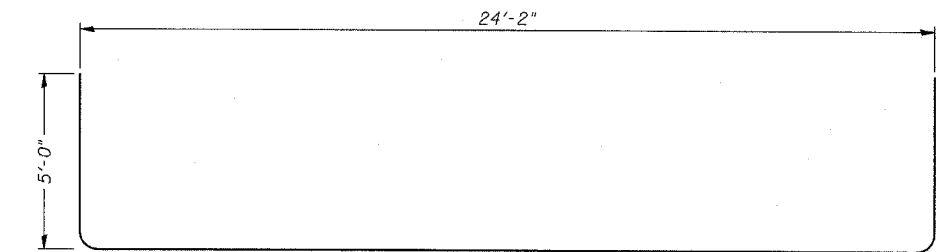
PLAN



Bar v



Bars v₁(E)-v₁₂(E)



Bar u

| BILL OF MATERIAL | | | | |
|----------------------------------|------|-----|--------|-------|
| ONE (1) HEADWALL | | | | |
| BAR | SIZE | NO. | LENGTH | SHAPE |
| b | 5 | 2 | 25'-8" | — |
| b ₁ | 4 | 1 | 29'-5" | — |
| b ₂ | 4 | 1 | 32'-5" | — |
| b ₃ | 4 | 1 | 35'-5" | — |
| b ₄ | 4 | 1 | 38'-5" | — |
| b ₅ | 4 | 2 | 41'-7" | — |
| h | 5 | 2 | 25'-8" | — |
| h ₁ | 4 | 4 | 12'-4" | — |
| h ₂ | 4 | 4 | 12'-2" | — |
| h ₃ | 4 | 28 | 8'-2" | — |
| u | 4 | 4 | 34'-2" | — |
| v | 4 | 28 | 4'-3" | — |
| v ₁ (E) | 5 | 2 | 5'-7" | — |
| v ₂ (E) | 5 | 2 | 5'-11" | — |
| v ₃ (E) | 5 | 2 | 6'-3" | — |
| v ₄ (E) | 5 | 2 | 6'-8" | — |
| v ₅ (E) | 5 | 2 | 7'-0" | — |
| v ₆ (E) | 5 | 2 | 7'-4" | — |
| v ₇ (E) | 5 | 2 | 7'-8" | — |
| v ₈ (E) | 5 | 2 | 8'-1" | — |
| v ₉ (E) | 5 | 2 | 8'-5" | — |
| v ₁₀ (E) | 5 | 2 | 8'-9" | — |
| v ₁₁ (E) | 5 | 2 | 9'-1" | — |
| v ₁₂ (E) | 5 | 2 | 9'-6" | — |
| Concrete Headwalls | C.Y. | | 14.8 | |
| Reinforcement Bars | Lbs. | | 640 | |
| Reinforcement Bars, Epoxy Coated | Lbs. | | 190 | |

| Item | Unit | Quantity |
|----------------------------------------|------|----------|
| Box Culvert End Section, Culvert No. 1 | Each | 2 |

CAST-IN-PLACE
BOX CULVERT
END SECTION DETAILS
IL ROUTE 178 OVER
UNNAMED TRIBUTARY
FAS 1279 SECTION 1071
LaSALLE COUNTY
STATION 1032+49.18
STRUCTURE NO. 050-2041

ESCA
CONSULTANTS, INC.

| | | |
|--------------|-----|-------|
| DESIGNED BY: | MTD | 11/04 |
| DRAWN BY: | RJT | 11/04 |
| CHECKED BY: | MTD | 11/04 |
| APPROVED BY: | RDP | 05/06 |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | | | | | |
|---------------------|----------|------------------|--------|-------|-------------|
| ROUTE NO. | SECTION | COUNTY | SHEETS | SHEET | SHEET NO. 4 |
| FAS 1279 | 1071 | LaSALLE | 43 | 22 | 5 SHEETS |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | | |

CTR# 66400



SOIL BORING LOG

Page 1 of 1

Date 3/6/02

ROUTE IL 178 DESCRIPTION ILLINOIS 178 OVER TRIBUTARY TO VERMILION RIVER SOUTH OF UTICA LOGGED BY K.W.
 SECTION (1)RS,(106,107)RS-2,(105)RS-1 & 1 LOCATION SW 1/4, SEC. 28, TWP. 33N, RRG. 2E, 3rd PM
 COUNTY LASALLE DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

| STRUCT. NO. Station | BORING NO. Station | Offset | Ground Surface Elev. ft | DEPTH ft | BLOW S | UCS Qu | MOIST T | Description | Surface Water Elev. ft | Stream Bed Elev. ft | Groundwater Elev. ft | First Encounter | Upon Completion | After Hrs. | DEPTH ft | BLOW S | UCS Qu | MOIST T | |
|------------------------|--------------------------|------------|-------------------------|-------------|-----------|-----------|------------|---------------------------------------------------------------------------------------|------------------------|---------------------|----------------------|-----------------|-----------------|------------|-------------|-----------|-----------|------------|------|
| | | | | | | | | | | | | | | | | | | | (ft) |
| 050-0153 1032+49.18 | 1 NORTHSIDE 1032+37.7 | 15.50ft LT | 624.96 | | | | | Hard Gray CLAY with Layers of Blue-Green CLAY, Pyrite & Black PLANT STEMS (continued) | 615.98 | | | 609.5 | 607.0 | | | | | | |
| | | | | 622.46 | | | | | | | | | | | | | | | |
| | | | | 619.46 | 2 | | | | | | | | | | | | | | |
| | | | | 617.96 | 2 | 0.7 | 21.0 | | | | | | | | | | | | |
| | | | | | 3 | P | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | 27 | | | | | | | | | | | | | | |
| | | | | | 5 | 0.2 | 16.0 | | | | | | | | | | | | |
| | | | | | 6 | P | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | 1 | | | | | | | | | | | | | | |
| | | | | | 1 | 0.2 | 17.0 | | 596.96 | | | | | | | | | | |
| | | | | | 2 | P | | | 596.46 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | 3 | | | | | | | | | | | | | | |
| | | | | | 7 | | 18.0 | | | | | | | | | | | | |
| | | | | | 7 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | 612.96 | | | | | | | | | | | | | | | |
| | | | | 611.96 | 17 | | 10.0 | | | | | | | | | | | | |
| | | | | | 52 | | | | | | | | | | | | | | |
| | | | | | 100 | | 31.0 | | | | | | | | | | | | |
| | | | | | 4.5" | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | 609.46 | 7 | | | | | | | | | | | | | | |
| | | | | | 9 | 3.5 | 14.0 | | | | | | | | | | | | |
| | | | | | 13 | P | | | | | | | | | | | | | |
| | | | | 607.96 | | | | | | | | | | | | | | | |
| | | | | | 6 | | | | | | | | | | | | | | |
| | | | | | 13 | 4.5 | 15.0 | | | | | | | | | | | | |
| | | | | | 15 | P | | | | | | | | | | | | | |

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)

ESCA
CONSULTANTS, INC.

| | | |
|--------------|-----|-------|
| DESIGNED BY: | MTD | 11/04 |
| DRAWN BY: | RJT | 11/04 |
| CHECKED BY: | MTD | 11/04 |
| APPROVED BY: | RDP | 05/06 |

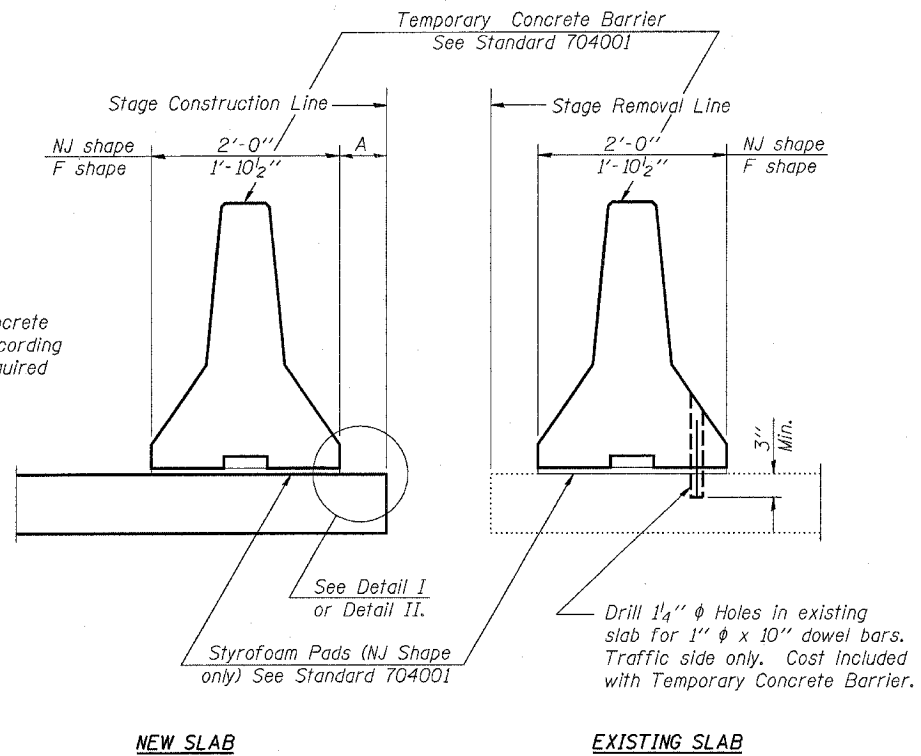
SOIL BORING
DETAILS
IL ROUTE 178 OVER
UNNAMED TRIBUTARY
FAS 1279 SECTION 1071
LaSALLE COUNTY
STATION 1032+49.18
STRUCTURE NO. 050-2041

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | | | | |
|---------------------|----------|-------------------|-------|-----------|
| ROUTE NO. | SECTION | COUNTY | SHEET | SHEET NO. |
| FAS 1279 | 1071 | LaSALLE | 43 | 23 |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT- | | |

CTR# 66400

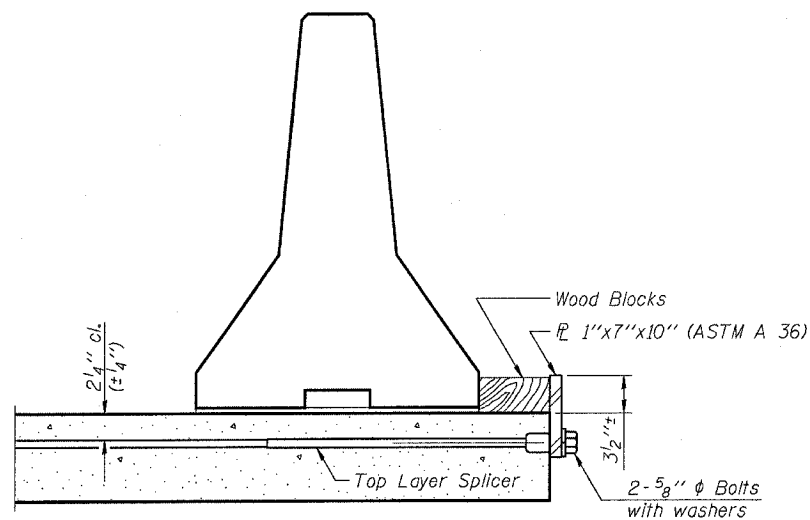
When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



SECTIONS THRU SLAB

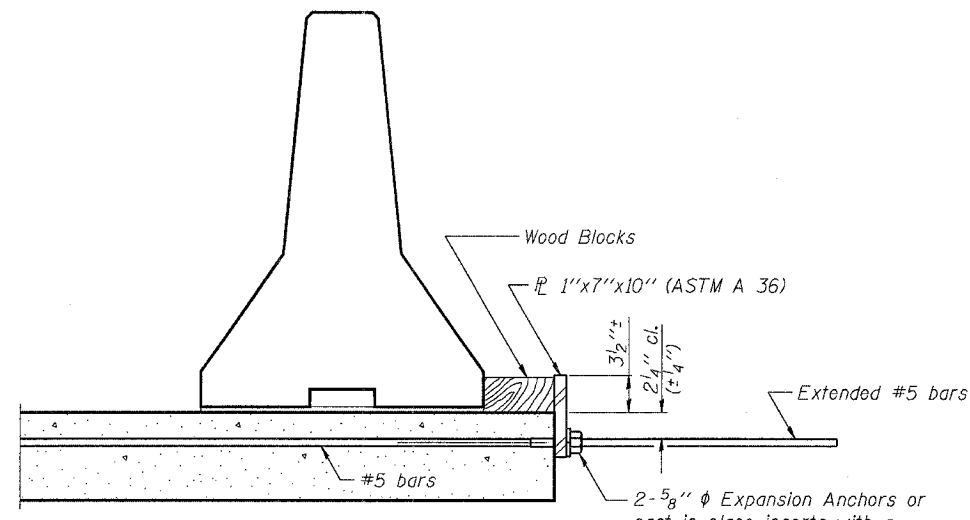
NOTES

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



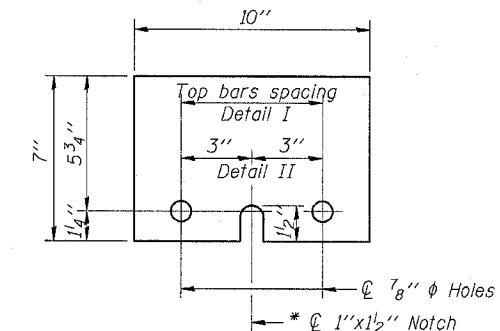
DETAIL I

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.



\bar{L} 1"x7"x10"

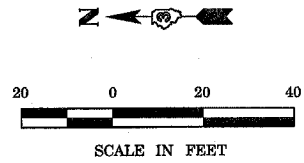
* Required only with Detail II.

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
IL ROUTE 178 OVER UNNAMED TRIBUTARY
FAS 1279 SECTION 1071
LaSALLE COUNTY
STATION 1032+49.18
STRUCTURE NO. 050-2041

ESCA
CONSULTANTS, INC.

| | | |
|--------------|-----|-------|
| DESIGNED BY: | MTD | 11/04 |
| DRAWN BY: | RJT | 11/04 |
| CHECKED BY: | MTD | 11/04 |
| APPROVED BY: | RDP | 05/06 |

| FAS RTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|----------|----------------------|--------------|-----------|
| 1279 | 107I | LaSALLE | 43 | 24 |
| STA. 1116+40 | | TO STA. 1123+60 | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT AID | | |



SCHEDULE OF QUANTITIES

| TEMPORARY CONCRETE BARRIER | STATION TO | STATION | FEET |
|----------------------------|------------|---------|-----------|
| | 1118+20 | 1121+80 | 360 |
| | | | TOTAL 360 |

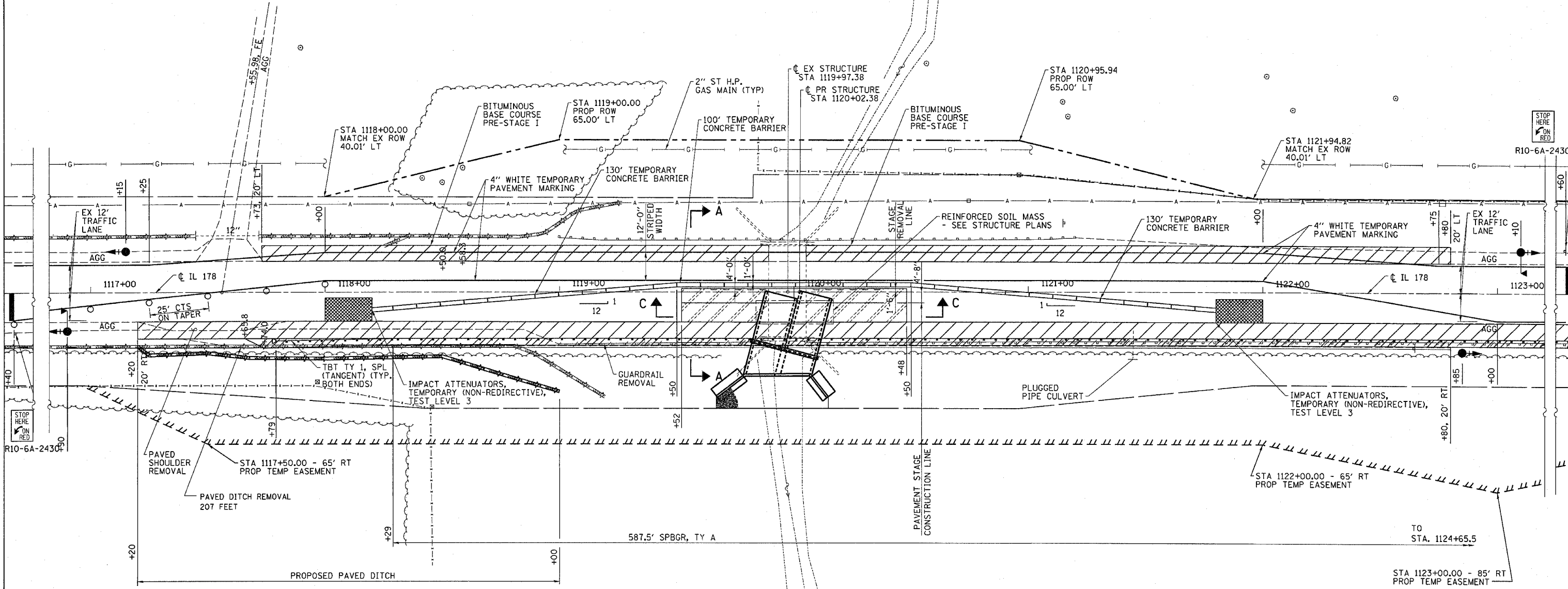
TEMPORARY BRIDGE TRAFFIC SIGNALS - 1 EACH

IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3 - 2 EACH

TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 - 1 EACH

GENERAL NOTES

1. TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN AND ACCORDING TO "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321."
2. SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
3. COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.



LEGEND

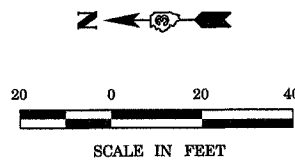
- HOT-MIX ASPHALT BASE COURSE, 10"
- PAVEMENT REMOVAL
- HOT-MIX ASPHALT SHOULDERS, 6"
- DRUM WITH STEADY BURNING LIGHT AT 50' CTS UNLESS NOTED OTHERWISE
- TRAFFIC SIGNAL WITH BACKPLATE, SIGNAL DIRECTION INDICATED
- TC 26B MICROWAVE ON ARM

ESCA
CONSULTANTS, INC.

| | | |
|--------------|-----|-------|
| DESIGNED BY: | MTD | 01/06 |
| DRAWN BY: | HAG | 01/06 |
| CHECKED BY: | MTD | 05/06 |
| APPROVED BY: | RDP | 05/06 |

STAGE I
CONSTRUCTION
FAS 1279 (IL 178)
SECTION 107I
LaSALLE COUNTY
STATION 1120+02.38

| FAS RTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|----------|----------------------|--------------|-----------|
| 1279 | 1071 | LaSALLE | 43 | 25 |
| STA. 1116+40 | | TO STA. 1123+60 | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT AID | | |



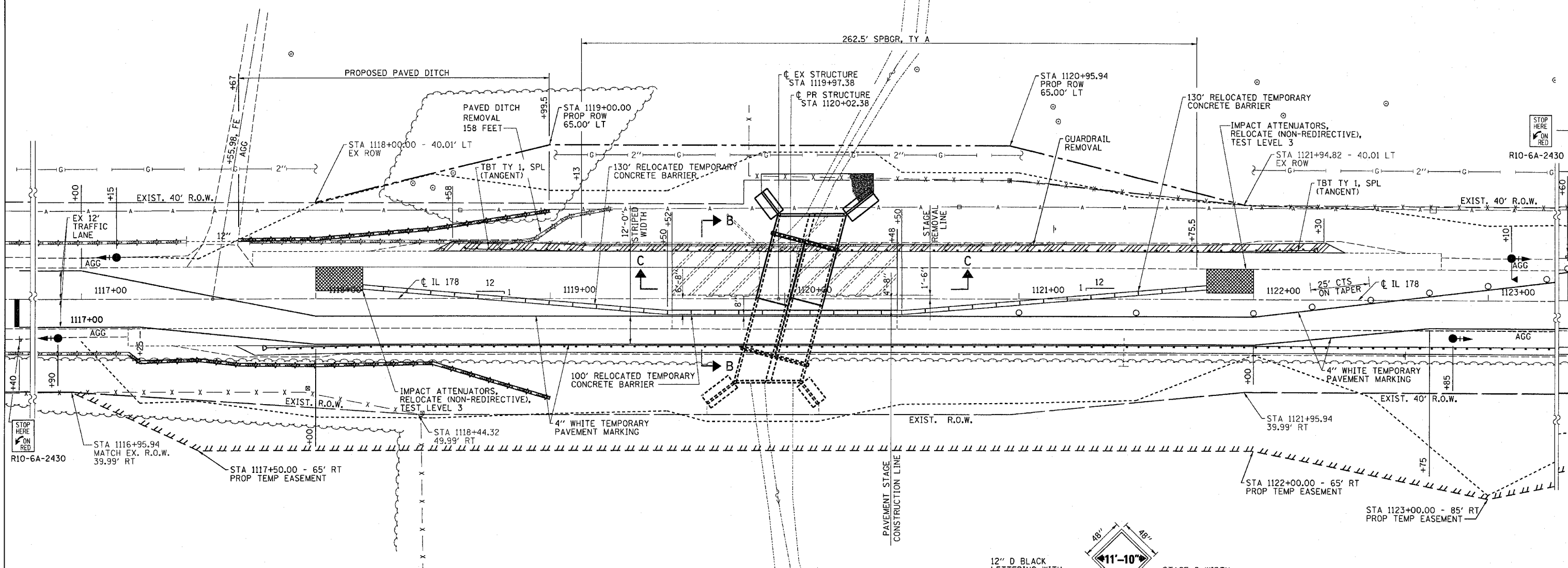
SCHEDULE OF QUANTITIES

| TEMPORARY CONCRETE BARRIER | STATION TO | STATION | FEET |
|----------------------------|------------|---------|-----------|
| | 1118+20 | 1121+80 | 360 |
| | | | TOTAL 360 |

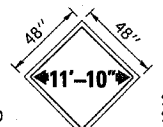
IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3 - 2 EACH

GENERAL NOTES

1. TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN AND ACCORDING TO "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321."
2. SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
3. COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.



- LEGEND**
- PAVEMENT REMOVAL
 - HOT-MIX ASPHALT SHOULDERS, 6"
 - DRUM WITH STEADY BURNING LIGHT AT 50' CTS UNLESS NOTED OTHERWISE
 - TRAFFIC SIGNAL WITH BACKPLATE, SIGNAL DIRECTION INDICATED
 - TC 26B MICROWAVE ON ARM



12" D BLACK LETTERING WITH ORANGE BACKGROUND
 STAGE 2 WIDTH SHALL BE MARKED 11'-10"

TO BE POST MOUNTED IN EACH DIRECTION BETWEEN THE ROAD CONSTRUCTION AHEAD AND SIGNAL AHEAD SIGNS REQUIRED FOR STD 701321.

THE ENGINEER WILL NOTIFY DISTRICT 3 BUREAU OF OPERATIONS 14 CALENDAR DAYS PRIOR TO INSTALLING ANY TRAFFIC CONTROL DEVICES THAT WILL RESTRICT THE PAVEMENT WIDTH. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE ENGINEER TO MEET THIS REQUIREMENT.

ALL WORK NECESSARY TO IMPLEMENT AND ERECT THE WIDTH RESTRICTION SIGNS IS INCLUDED IN THE CONTRACT UNIT PRICE FOR STD. 701321

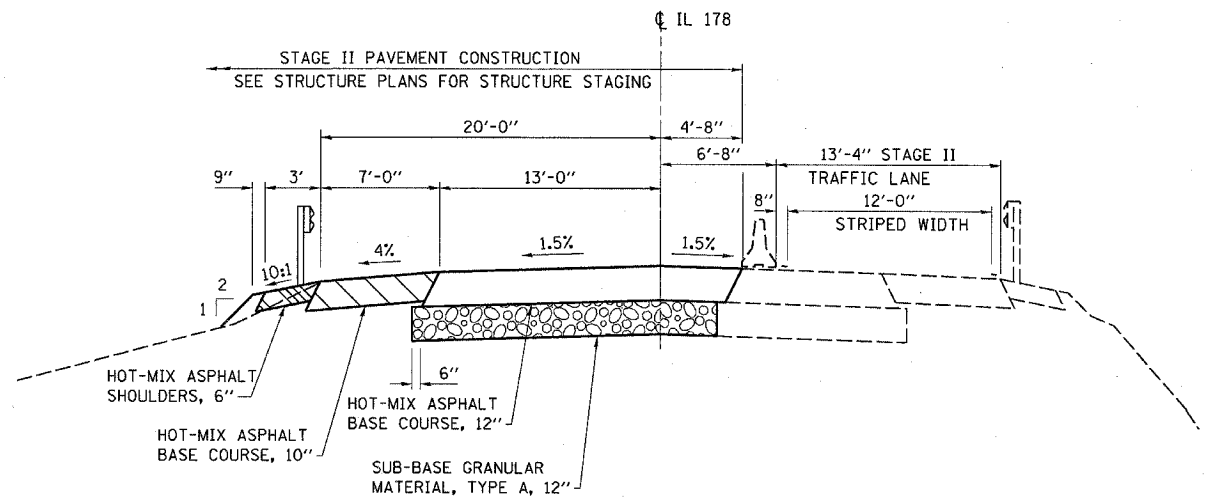
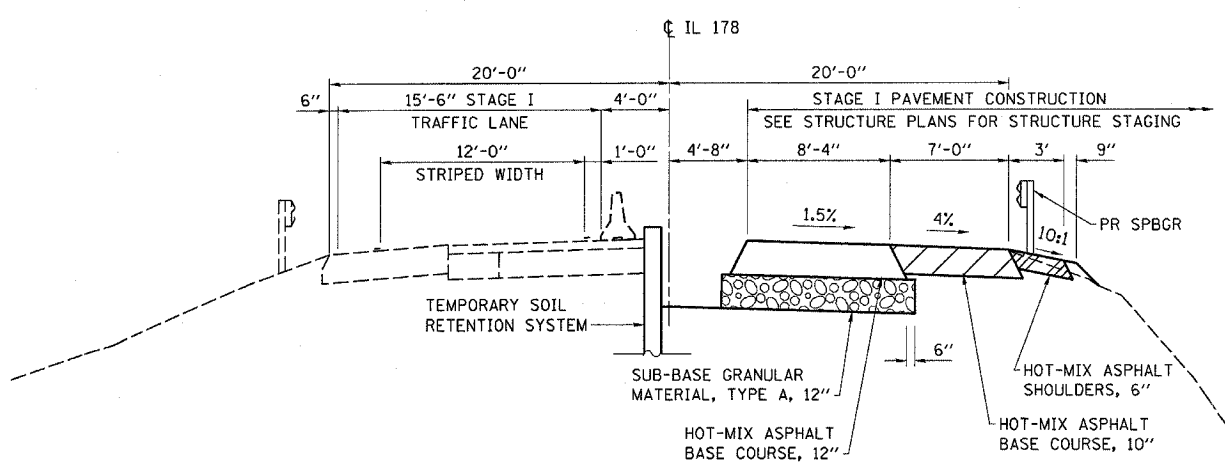
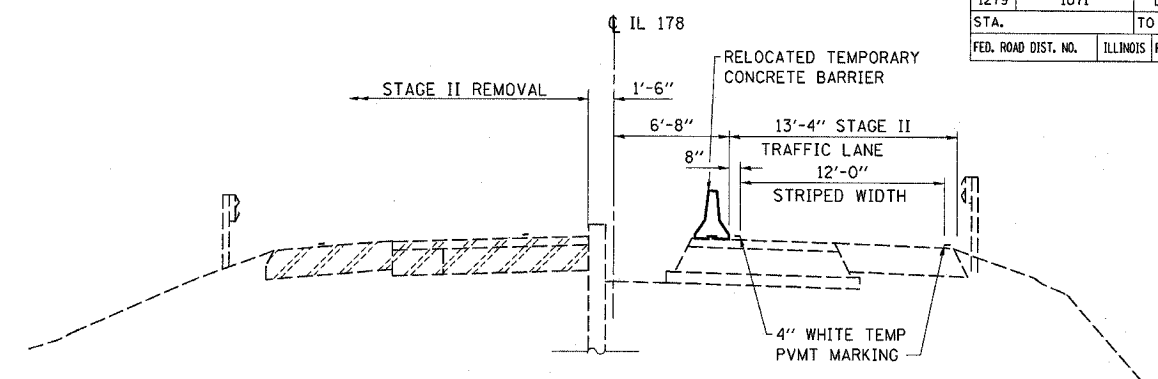
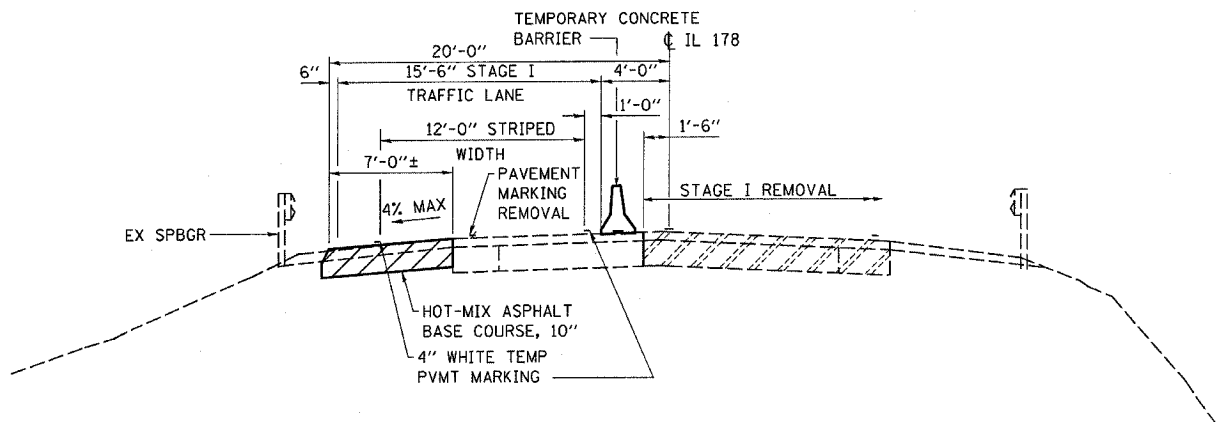
WIDTH RESTRICTION SIGN
 (REQUIRED FOR STAGE II ONLY)

STAGE II CONSTRUCTION
 FAS 1279 (IL 178)
 SECTION 1071
 LaSALLE COUNTY
 STATION 1120+02.38

ESCA
 CONSULTANTS, INC.

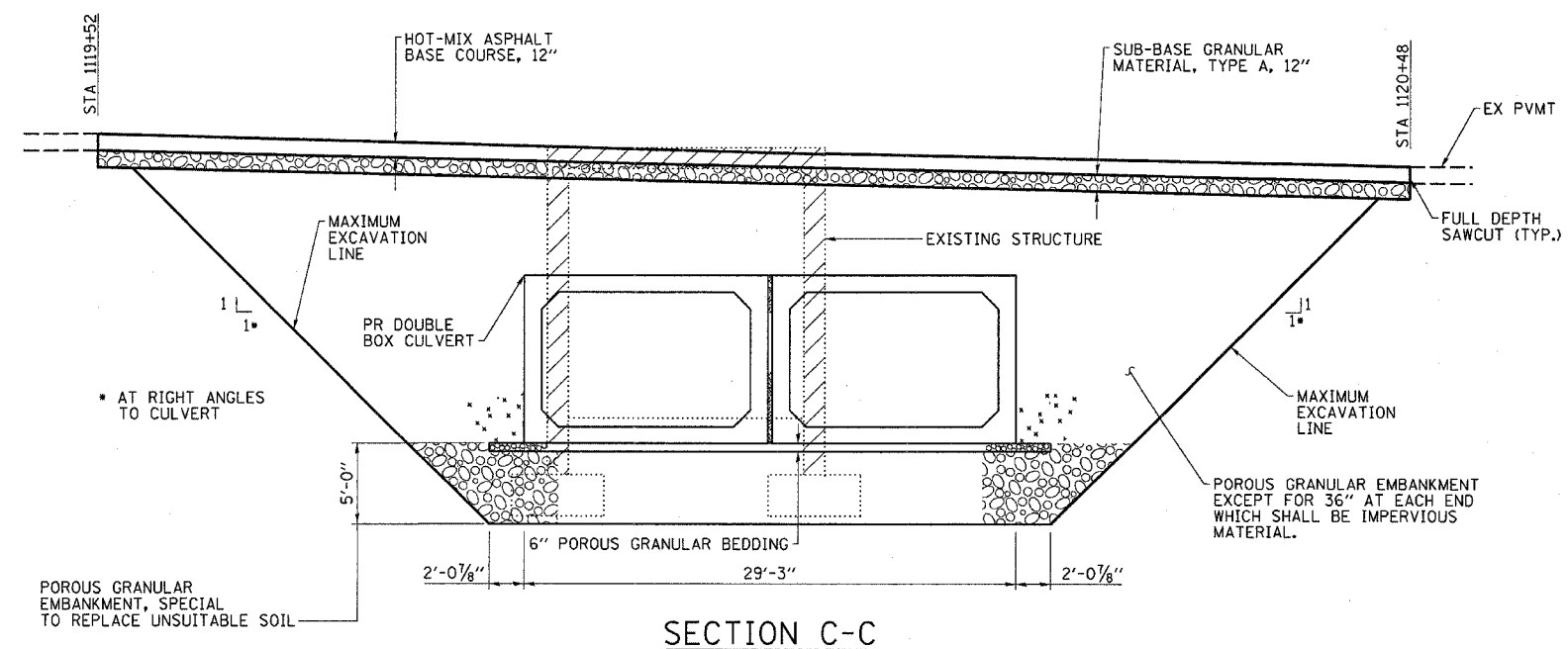
| | | |
|--------------|-----|-------|
| DESIGNED BY: | MTD | 01/06 |
| DRAWN BY: | HAG | 01/06 |
| CHECKED BY: | MTD | 05/06 |
| APPROVED BY: | RDP | 05/06 |

| FAS RTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|---------|-------------------------------|--------------|-----------|
| 1279 | 1071 | LaSALLE | 43 | 26 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT AID | | |



SECTION A-A

SECTION B-B



SECTION C-C

STAGE CONSTRUCTION DETAILS
 FAS 1279 (IL 178)
 SECTION 1071
 LaSALLE COUNTY
 STATION 1120+02.38

ESCA
 CONSULTANTS, INC.

| | | |
|--------------|-----|-------|
| DESIGNED BY: | MTD | 01/06 |
| DRAWN BY: | HAG | 01/06 |
| CHECKED BY: | MTD | 05/06 |
| APPROVED BY: | RDP | 05/06 |

| | | | | |
|-----------|---------|---------|--------|-----------|
| ROUTE NO. | SECTION | COUNTY | SHEETS | SHEET NO. |
| FAS 1279 | 1071 | LaSALLE | 43 | 27 |
| 5 SHEETS | | | | |

CTR# 66400

GENERAL NOTES

- Exposed edges shall be beveled 3/4".
- For backfilling & embankment, see Standard Specifications.
- Reinforcement bars shall conform to the requirements of AASHTO M31, M42 or M53 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 bonded.
- Class SI Concrete shall be used throughout the cast-in-place concrete portion of the barrel, wings, and headwalls.
- The Precast Concrete Box Culvert sections shall conform to the requirements of AASHTO M259.
- 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 I removal.
- For Section B-B see Dwg. No. 2 of 5.

TOTAL BILL OF MATERIAL

| ITEM | UNIT | QUANTITY |
|----------------------------------------------|---------|----------|
| Stone Riprap, Class A4 | Sq. Yd. | 164 |
| Filter Fabric | Sq. Yd. | 164 |
| Removal of Existing Structures No. 2 | Each | 1 |
| Temporary Soil Retention System | Sq. Ft. | 940 |
| Name Plates | Each | 1 |
| Box Culvert End Section, Culvert No. 2 | Each | 2 |
| Precast Concrete Box Culvert 12' x 8' | Foot | 96 |
| Temporary Mechanically Stabilized Earth Wall | Sq. Ft. | 240 |

Pay Items for Temporary Concrete Barriers, Excavation, Porous Granular Embankment and Porous Granular Embankment, Special are included in Roadway Plans.

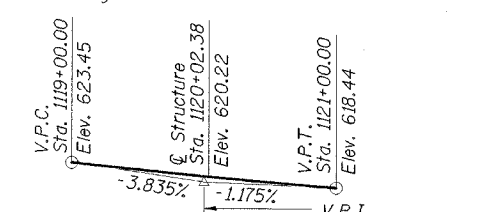
STATION 1120+02.38
 BUILT 200_ BY
 STATE OF ILLINOIS
 FAS ROUTE 1279 SECTION 1071
 F.A. PROJECT _____
 LOADING HS20
 STR. NO. 050-2040

NAME PLATE
 See Std. 515001

BENCHMARK: 60D Nail in Power Pole
 Sta. 1124+82, 38.9' Lt., Elev. 624.66

EXISTING STRUCTURE: SN 050-0154 was built in 1932 as Sec. 107B. The structure is a single span reinforced concrete structure with 2 closed abutments and wingwalls on spread footings with 12-inch dia. untreated timber piles. The deck width is 42'-2" and the length is 16'-6" back to back of abutments. Traffic shall be maintained utilizing stage construction.

No salvage.

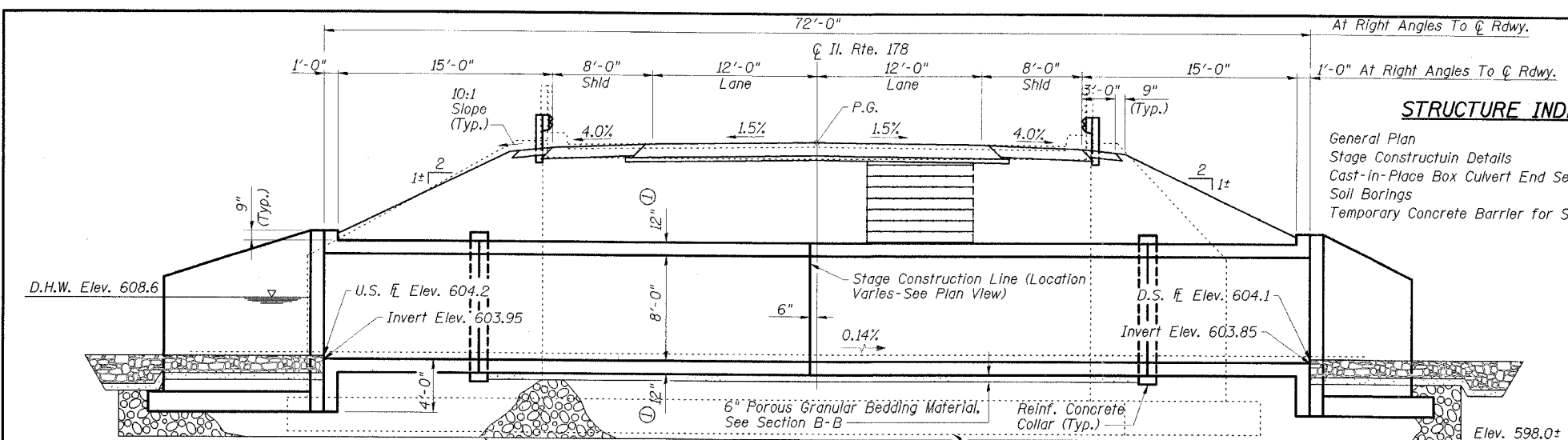


PROFILE GRADE
 (Along Center Roadway)

GENERAL PLAN
 IL ROUTE 178 OVER
 UNNAMED TRIBUTARY
 FAS 1279 SECTION 1071
 LaSALLE COUNTY
 STATION 1120+02.38
 STRUCTURE NO. 050-2040

STRUCTURE INDEX OF SHEETS

- | | |
|---------------------------------------------------|------------------|
| General Plan | Sheet No. 1 of 5 |
| Stage Construction Details | Sheet No. 2 of 5 |
| Cast-in-Place Box Culvert End Section Details | Sheet No. 3 of 5 |
| Soil Borings | Sheet No. 4 of 5 |
| Temporary Concrete Barrier for Stage Construction | Sheet No. 5 of 5 |

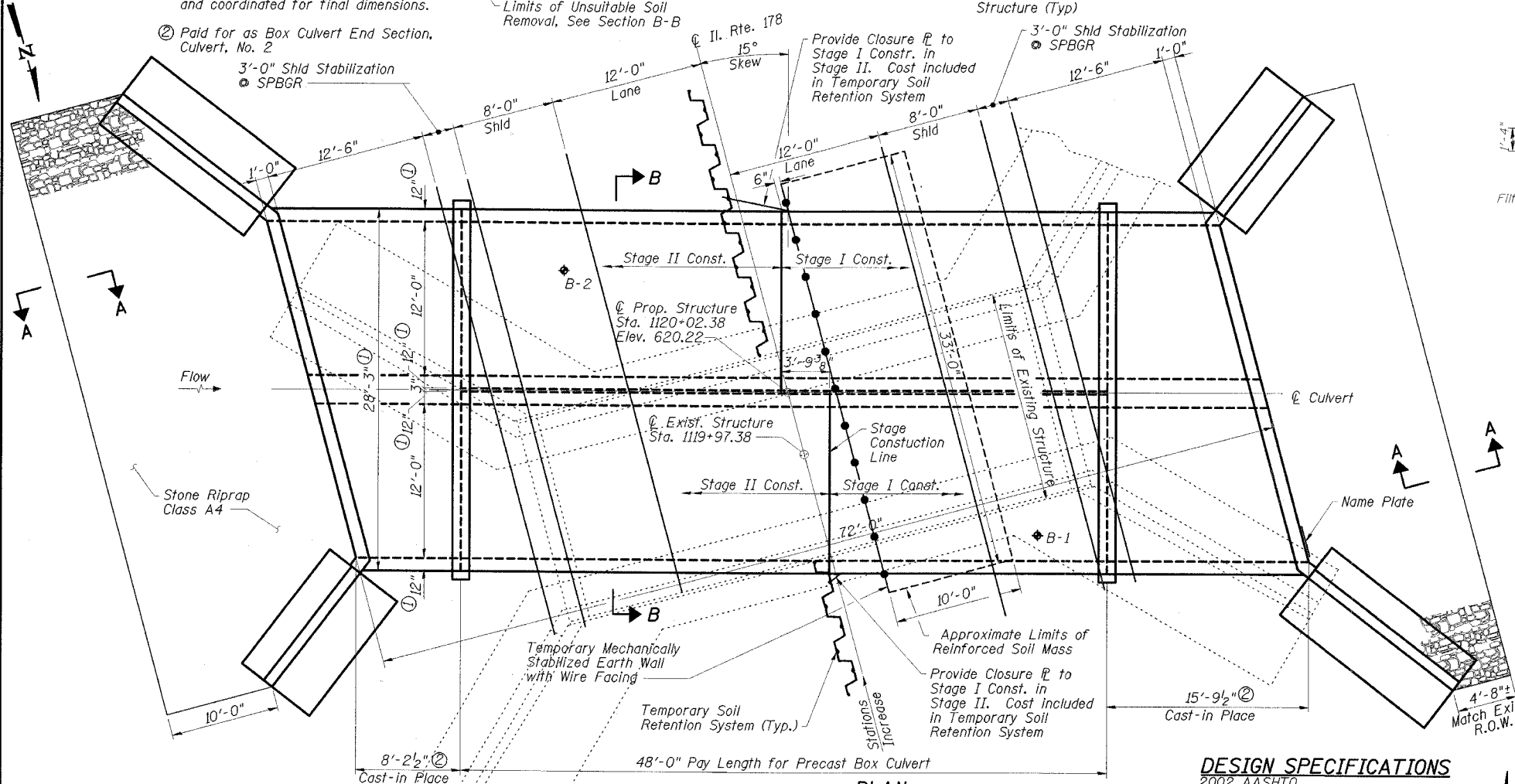


LONGITUDINAL SECTION

① Thickness of precast culvert walls and slabs shall be verified on shop drawings and coordinated for final dimensions.

② Paid for as Box Culvert End Section, Culvert, No. 2

Note: Dimensions shown at right angles to centerline of Il. Rte. 178



PLAN WATERWAY INFORMATION

| Drainage Area = 0.68 Sq. Mi. | | Low Grade Elev. = 618.44 Ft. @ Sta. 1121+00 | | | | |
|------------------------------|-----------|---------------------------------------------|------------------------------|--------------------------|-----------------------|--------------------------------|
| Flood | Freq. Yr. | Q C.F.S. | Opening Sq. Ft. Exist. Prop. | Nat. H.W.E. Exist. Prop. | Head-Ft. Exist. Prop. | Headwater El. Exist. Prop. (*) |
| Design | 50 | 490 | 55 111.6 | 608.6 2.4 0.6 | 611.0 609.2 | |
| Base | 100 | 570 | 60 114.0 | 608.7 2.8 0.8 | 611.5 609.5 | |
| Max. Calc. Overtopping | 500 | 750 | 68 121.2 | 609.0 3.7 1.3 | 612.7 610.3 | |

(*) Headwater El. = W.S. El. @ Upstream face of Proposed Structure

DESIGN SPECIFICATIONS
 2002 AASHTO

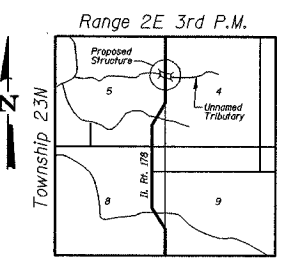
LOADING HS20-44
 Allow 50 psf for future wearing surface.

DESIGN STRESSES FIELD UNITS

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

PRECAST UNITS

$f'_c = 5,000$ psi
 $f_y = 65,000$ psi (wwf)



LOCATION SKETCH

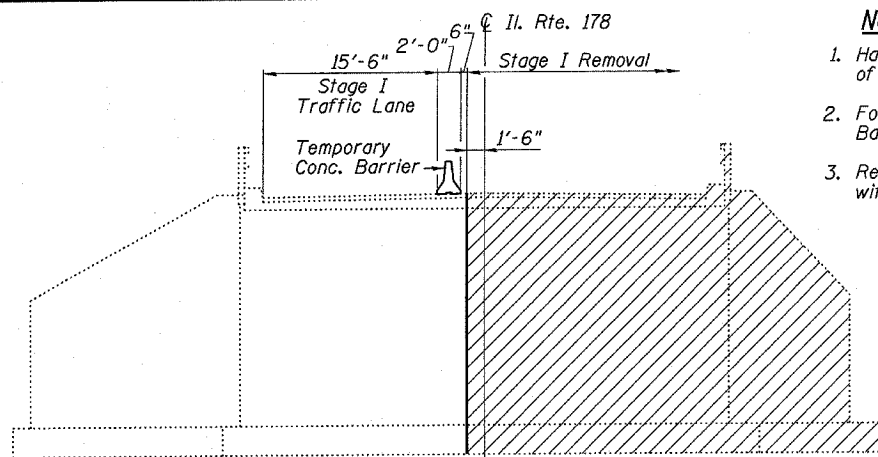
STATE OF ILLINOIS
 No. 4647
 EXPIRES 11-30-06
 SIGNATURE
 DATE

ESCA CONSULTANTS, INC.

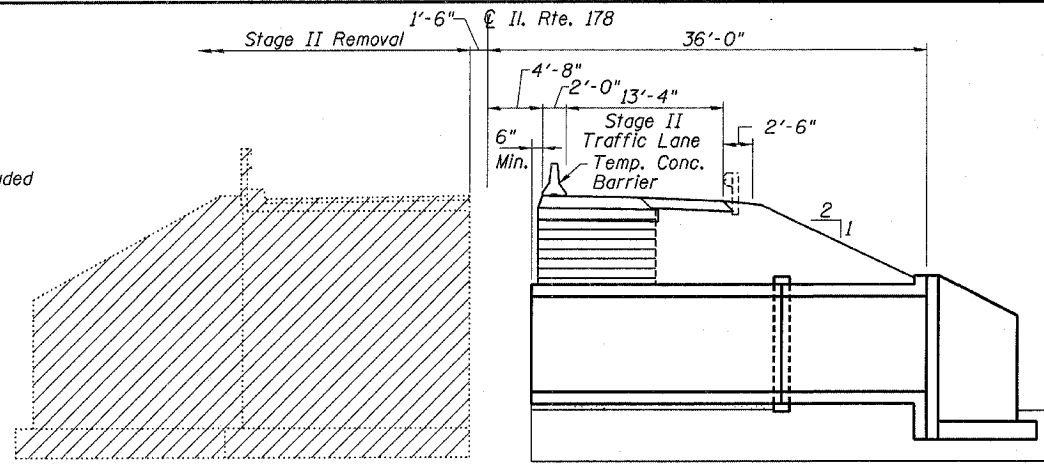
| | | |
|--------------|-----|-------|
| DESIGNED BY: | RDP | 11/05 |
| DRAWN BY: | DWH | 11/05 |
| CHECKED BY: | MTD | 12/05 |
| APPROVED BY: | RDP | 05/06 |

NOTES

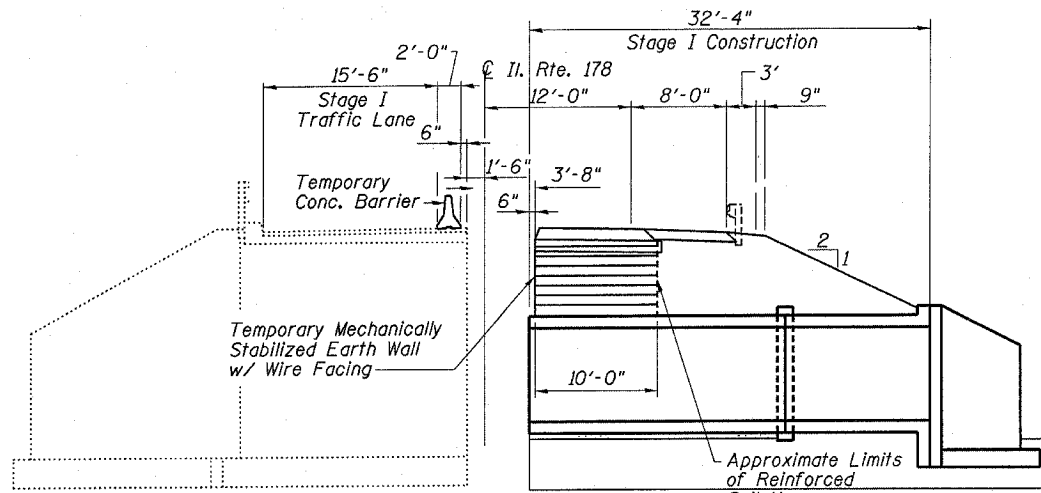
1. Hatched areas indicate "Removal of Existing Structures."
2. For details of Temporary Concrete Barrier see Dwg No. 5 of 5.
3. Removal of existing bridge rail is included with "Removal of Existing Structures."



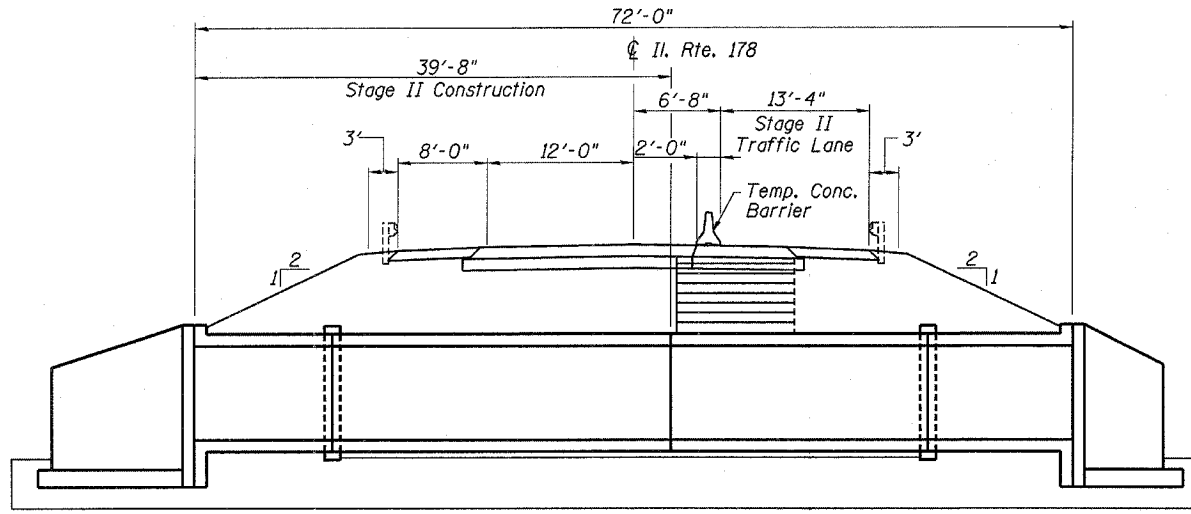
STAGE I REMOVAL



STAGE II REMOVAL



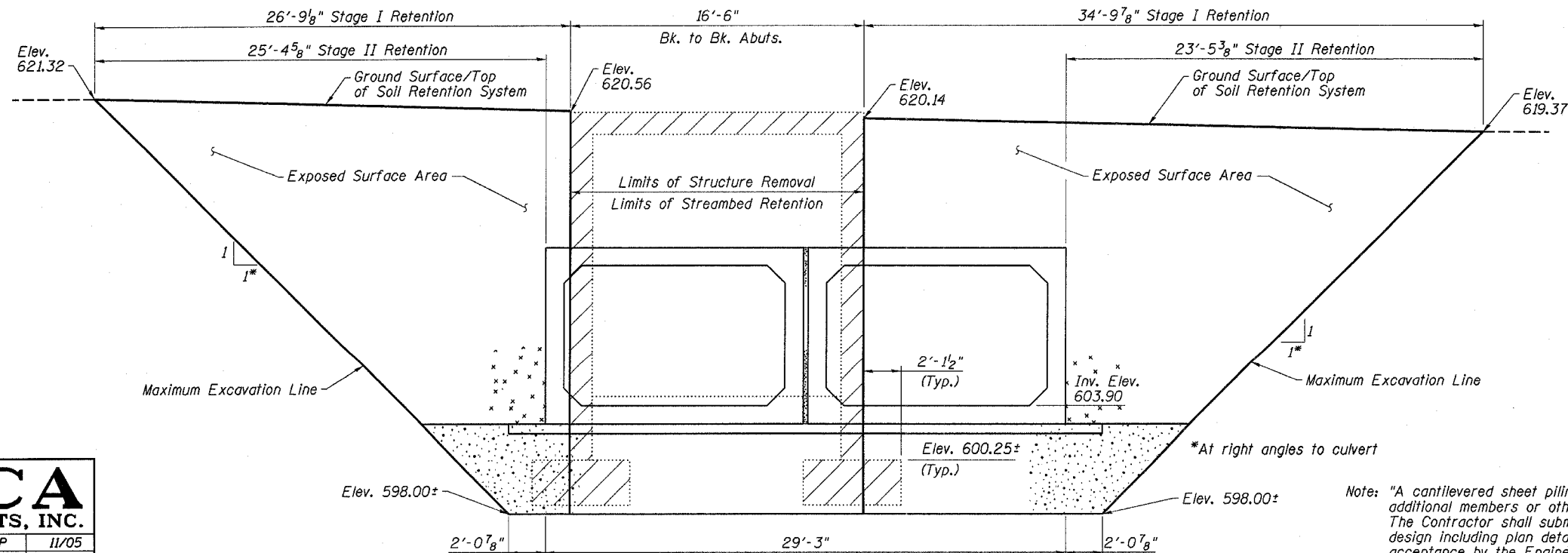
STAGE I CONSTRUCTION



STAGE II CONSTRUCTION

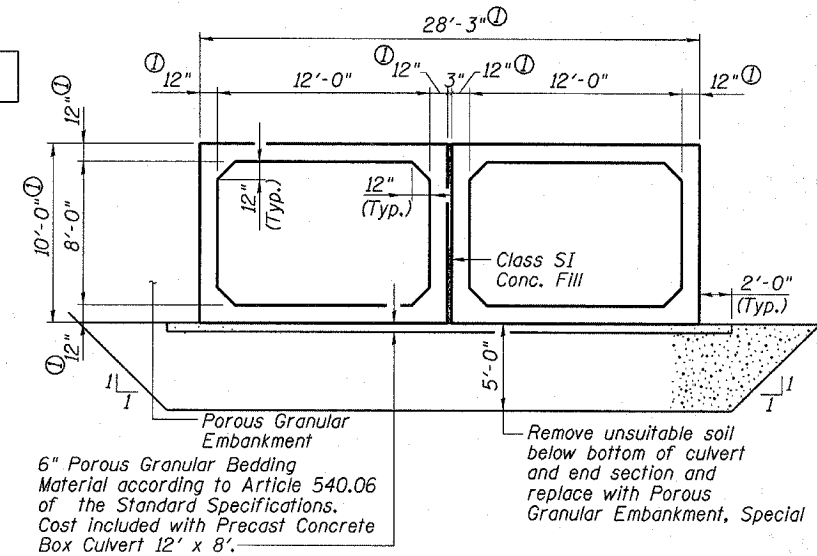
Note: Dimensions shown at right angles to CL of Il. 178.

STAGE CONSTRUCTION SECTIONS
(Looking South)



TEMPORARY SOIL RETENTION SYSTEM LIMITS

Note: Dimensions along CL of Il. 178.



SECTION B-B

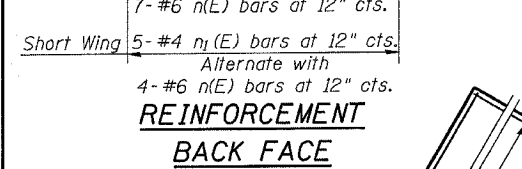
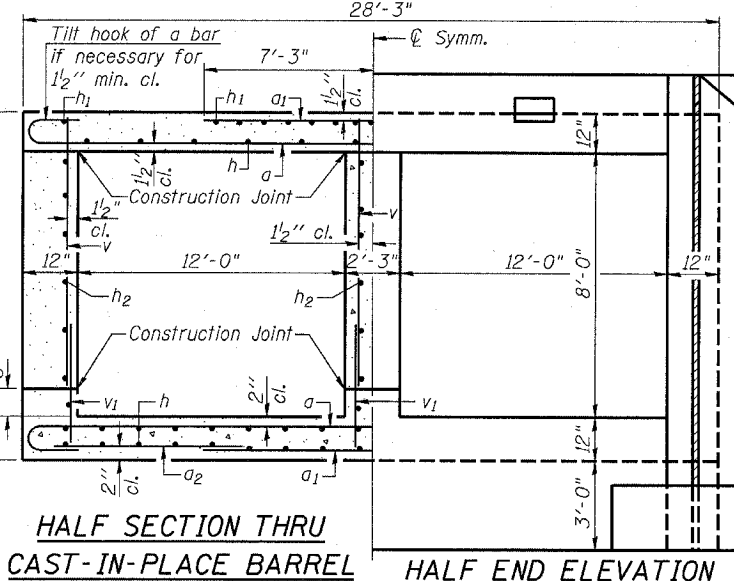
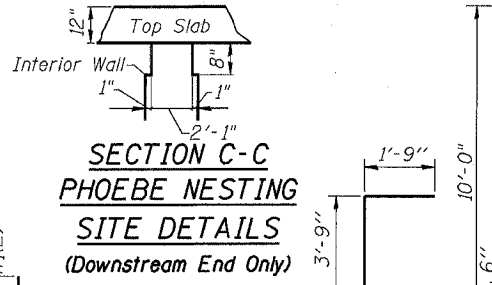
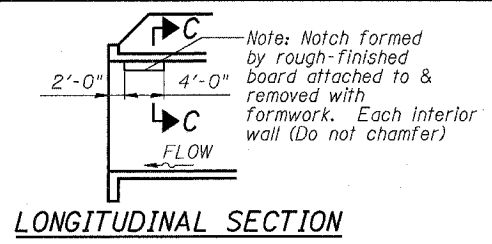
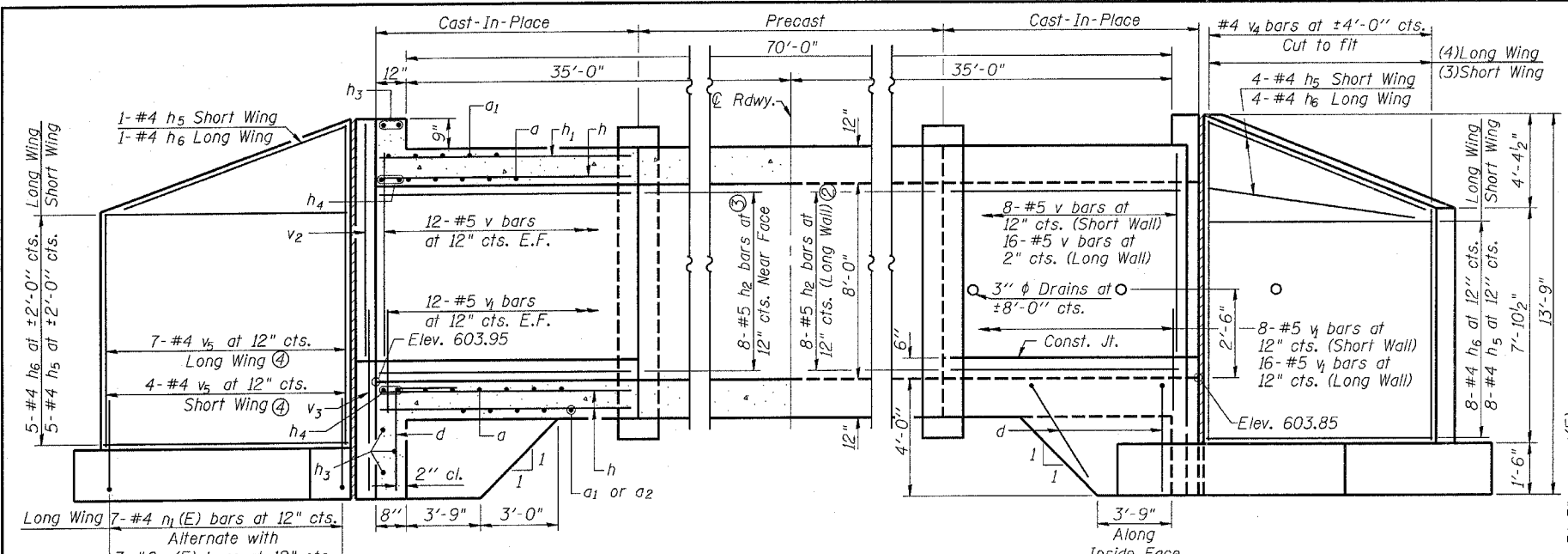
① Thickness of Precast Culvert walls and slabs shall be verified on shop drawings and coordinated for final dimension

ESCA
CONSULTANTS, INC.

| | | |
|--------------|-----|-------|
| DESIGNED BY: | RDP | 11/05 |
| DRAWN BY: | DWH | 11/05 |
| CHECKED BY: | MTD | 12/05 |
| APPROVED BY: | RDP | 05/06 |

STAGE CONSTRUCTION DETAILS
IL ROUTE 178 OVER UNNAMED TRIBUTARY
FAS 1279 SECTION 1071
LaSALLE COUNTY
STATION 1120+02.38
STRUCTURE NO. 050-2040

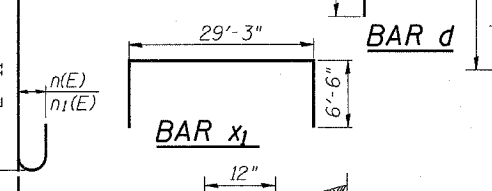
Note: "A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer."



HALF LONG. SECTION
Showing bars in Center Wall
Dimensions are at Right Angles to \bar{C} Roadway

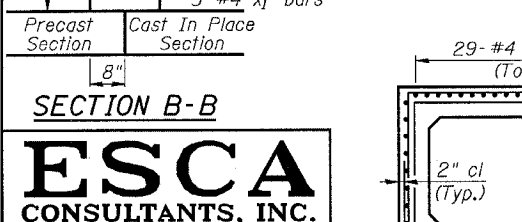
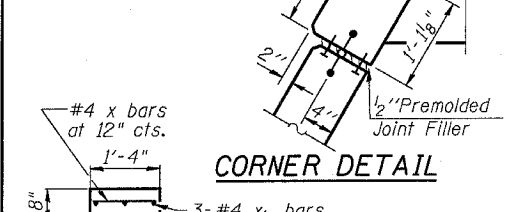
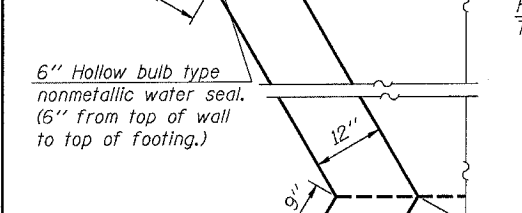
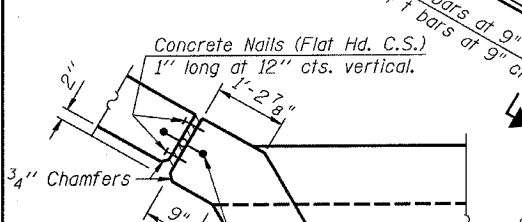
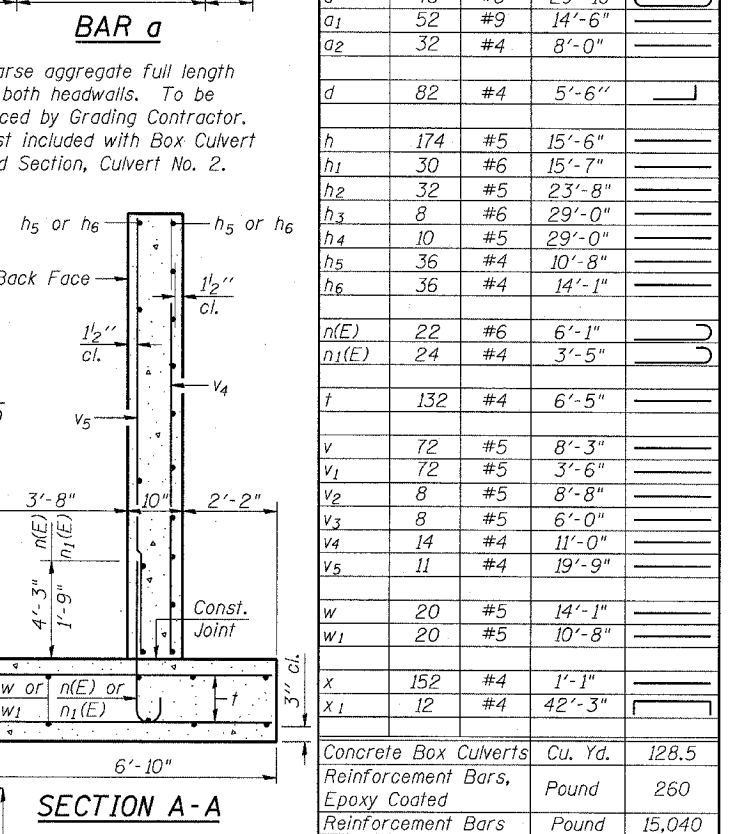
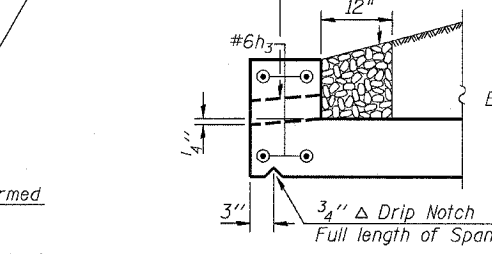
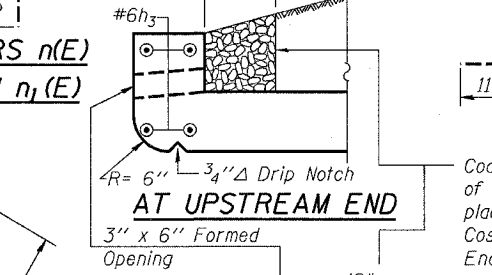
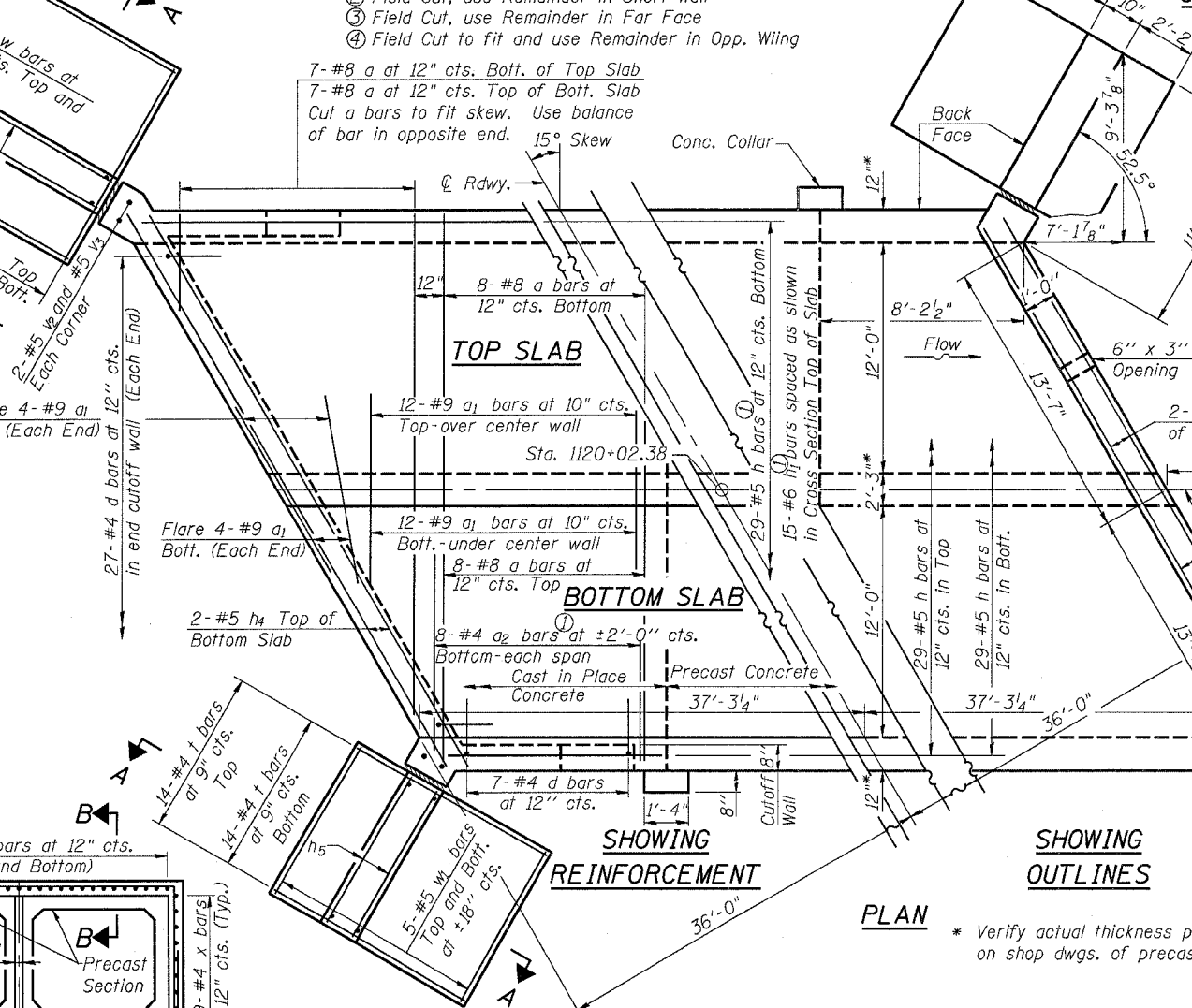
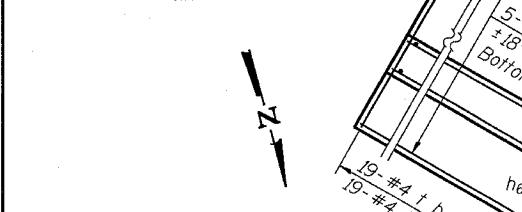
HALF ELEVATION
Showing bars in Outside Wall

REINFORCEMENT FRONT FACE



BILL OF MATERIAL

| Bar | No. | Size | Length | Shape |
|-------|-----|------|---------|-------|
| a | 46 | #8 | 29'-10" | |
| a1 | 52 | #9 | 14'-6" | |
| a2 | 32 | #4 | 8'-0" | |
| d | 82 | #4 | 5'-6" | |
| h | 174 | #5 | 15'-6" | |
| h1 | 30 | #6 | 15'-7" | |
| h2 | 32 | #5 | 23'-8" | |
| h3 | 8 | #6 | 29'-0" | |
| h4 | 10 | #5 | 29'-0" | |
| h5 | 36 | #4 | 10'-8" | |
| h6 | 36 | #4 | 14'-1" | |
| n(E) | 22 | #6 | 6'-1" | |
| n1(E) | 24 | #4 | 3'-5" | |
| f | 132 | #4 | 6'-5" | |
| v | 72 | #5 | 8'-3" | |
| v1 | 72 | #5 | 3'-6" | |
| v2 | 8 | #5 | 8'-8" | |
| v3 | 8 | #5 | 6'-0" | |
| v4 | 14 | #4 | 11'-0" | |
| v5 | 11 | #4 | 19'-9" | |
| w | 20 | #5 | 14'-1" | |
| w1 | 20 | #5 | 10'-8" | |
| x | 152 | #4 | 1'-1" | |
| x1 | 12 | #4 | 42'-3" | |



ESCA CONSULTANTS, INC.

DESIGNED BY: RDP 11/05
 DRAWN BY: DWH/JDK 11/05
 CHECKED BY: MTD 12/05
 APPROVED BY: RDP 05/06

DB-T-L

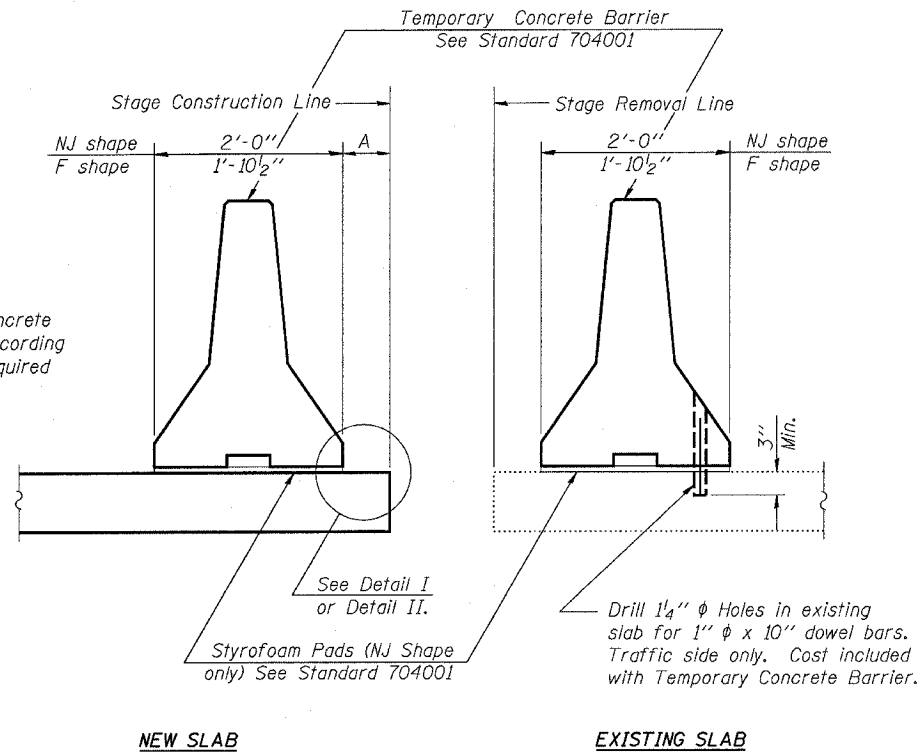
SECTION THRU BOX AT COLLAR

| Item | Unit | Quantity |
|----------------------------------------|------|----------|
| Box Culvert End Section, Culvert No. 2 | Each | 2 |

CAST-IN-PLACE BOX CULVERT END SECTION DETAILS
 IL ROUTE 178 OVER UNNAMED TRIBUTARY
 FAS 1279 SECTION 1071
 LaSALLE COUNTY
 STATION 1120+02.38
 STRUCTURE NO. 050-2040

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

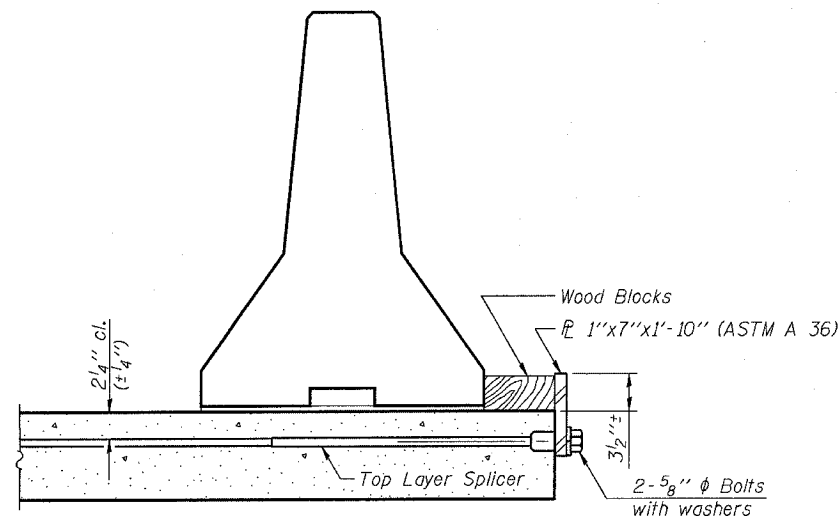
| | | | | | |
|---------------------|---------|----------|------------------|-------|-----------|
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET | SHEET NO. |
| FAS 1279 | 1071 | LaSALLE | 43 | 30 | 5 |
| FED. ROAD DIST. NO. | | ILLINOIS | FED. AID PROJECT | | |
| CTR# 66400 | | | | | |



SECTIONS THRU SLAB

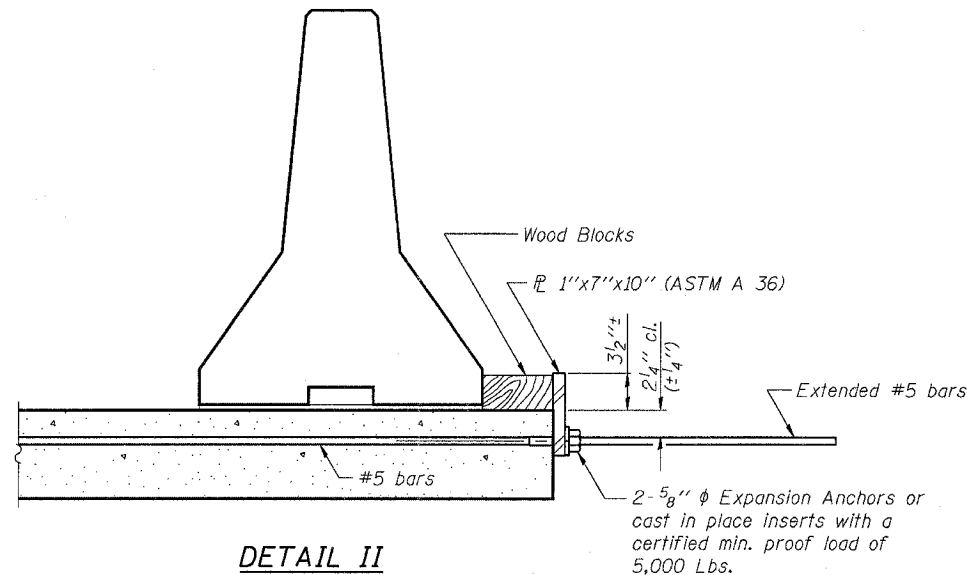
NOTES

- Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x1'-10" steel \bar{P} to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate \bar{C} of each barrier panel.
- Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x10" steel \bar{P} to the concrete slab with 2-5/8" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \bar{C} of each barrier panel.
- Cost of anchorage is included with Temporary Concrete Barrier.



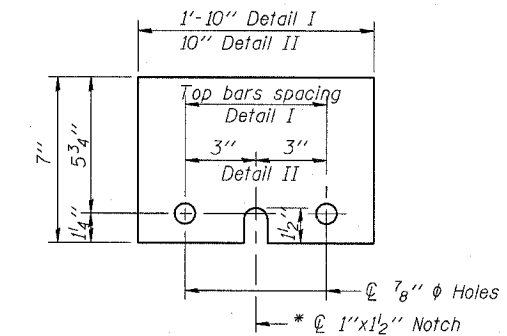
DETAIL I

The 1"x7"x1'-10" 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.



\bar{P} 1"x7"

* Required only with Detail II

TEMPORARY CONCRETE BARRIER

FOR STAGE CONSTRUCTION

IL ROUTE 178 OVER

UNNAMED TRIBUTARY

FAS 1279 SECTION 1071

LaSALLE COUNTY

STATION 1120+02.38

STRUCTURE NO. 050-2040

ESCA
CONSULTANTS, INC.

| | | |
|--------------|-----|-------|
| DESIGNED BY: | RDP | 11/05 |
| DRAWN BY: | DWH | 11/05 |
| CHECKED BY: | MTD | 12/05 |
| APPROVED BY: | RDP | 05/06 |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | | | | |
|---------------------|----------|-------------------|-----------|-----------|
| ROUTE NO. | SECTION | COUNTY | SHEET NO. | SHEET NO. |
| FAS 1279 | 1071 | LaSALLE | 43 | 31 |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT- | | |

CTR# 66400



SOIL BORING LOG

Page 1 of 1

ROUTE FAS 1279(IL178) DESCRIPTION ILLINOIS 178 OVER TRIBUTARY TO VERMILION RIVER NORTH OF LOWELL LOGGED BY K.W.
(1)RS,(106,107)RS-2,(108)RS-A
SECTION & 1 LOCATION NW 1/4, SEC. 4, TWP. 32N, RNG. 2E, 3rd PM
COUNTY LASALLE DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

| STRUCT. NO. | STATION | BORING NO. | DESCRIPTION | DEPTH (ft) | BLOWS (6") | UCS (tsf) | FAILURE MODE | GROUNDWATER ELEV. (ft) | DEPTH (ft) | BLOWS (6") | UCS (tsf) | FAILURE MODE |
|-------------|------------|------------|----------------------------------------------------------------------------------|------------|------------|-----------|--------------|------------------------|------------|------------|-----------|--------------|
| 050-0154 | 1119+97.38 | 1 | NORTHSIDE | | | | | 604.40 | | | | |
| | | | Surface Water Elev. | | | | | | | | | |
| | | | Stream Bed Elev. | | | | | | | | | |
| | | | Groundwater Elev.: | | | | | | | | | |
| | | | First Encounter | | | | | | | | | |
| | | | Upon Completion | 604.5 | | | | | | | | |
| | | | After Hrs. | | | | | | | | | |
| | | | Loose Brown Fine to Coarse SAND | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | Dense Brown SAND & Coarse GRAVEL | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | Dense Gray SILT | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | Dense Brown SAND & Coarse GRAVEL | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | Gray SILTY CLAY LOAM TILL | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | Dense Gray SAND & Fine GRAVEL | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | Soft Olive Gray Reworked SILTY CLAY LOAM TILL with GRAVEL & Thin SAND Layers | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | Medium Mix Gray SILTY CLAY TILL; Brown CLAY LOAM TILL (FILL) | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | Stiff Brown Reworked SILTY CLAY LOAM TILL | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | Stiff/Very Stiff Dark Gray SILTY CLAY LOAM to SILTY LOAM with Pebbles & Organics | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | Stiff Brown Reworked SILTY CLAY LOAM TILL | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | Hard Gray SILTY CLAY Reworked Weathered SHALE | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | Medium Brown Reworked CLAY LOAM TILL with SAND & GAVEL Layers | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | Stiff Gray & Brown Reworked SHALE with Pieces of SANDSTONE & Brown TILL | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | Stiff Black LOAM with Pebbles & Organics | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | Soft Black LOAM with More Organics Than Above | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | Loose Gray SAND & GRAVEL and SANDY LOAM with Pieces of SANDSTONE | | | | | | | | | |
| | | | | | | | | | | | | |

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



SOIL BORING LOG

Page 1 of 1

ROUTE FAS 1279(IL178) DESCRIPTION ILLINOIS 178 OVER TRIBUTARY TO VERMILION RIVER NORTH OF LOWELL LOGGED BY K.W.
(1)RS,(106,107)RS-2,(108)RS-A
SECTION & 1 LOCATION NW 1/4, SEC. 4, TWP. 32N, RNG. 2E, 3rd PM
COUNTY LASALLE DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

| STRUCT. NO. | STATION | BORING NO. | DESCRIPTION | DEPTH (ft) | BLOWS (6") | UCS (tsf) | FAILURE MODE | GROUNDWATER ELEV. (ft) | DEPTH (ft) | BLOWS (6") | UCS (tsf) | FAILURE MODE |
|-------------|------------|------------|----------------------------------------------------------------------------------|------------|------------|-----------|--------------|------------------------|------------|------------|-----------|--------------|
| 050-0154 | 1119+97.38 | 2 | SOUTHSIDE | | | | | 604.40 | | | | |
| | | | Surface Water Elev. | | | | | | | | | |
| | | | Stream Bed Elev. | | | | | | | | | |
| | | | Groundwater Elev.: | | | | | | | | | |
| | | | First Encounter | | | | | | | | | |
| | | | Upon Completion | WASHED | | | | | | | | |
| | | | After Hrs. | | | | | | | | | |
| | | | AUGERED SHOULDER STONE Over Brown CLAY LOAM TILL (FILL) | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | Loose Brown SAND (FILL) | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | Stiff Brown SILTY CLAY (FILL) | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | Stiff Brown SILTY CLAY with Pebbles & Tile Pieces | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | Loose Brown SAND/SANDY LOAM (FILL) | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | Stiff Brown SILTY CLAY LOAM TILL (FILL) | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | Stiff/Very Stiff Dark Gray SILTY CLAY LOAM to SILTY LOAM with Pebbles & Organics | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | Stiff Brown Reworked SILTY CLAY LOAM TILL | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | Hard Gray SILTY CLAY Reworked Weathered SHALE | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | Medium Brown Reworked CLAY LOAM TILL with SAND & GAVEL Layers | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | Stiff Gray & Brown Reworked SHALE with Pieces of SANDSTONE & Brown TILL | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | Stiff Black LOAM with Pebbles & Organics | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | Soft Black LOAM with More Organics Than Above | | | | | | | | | |
| | | | | | | | | | | | | |
| | | | Loose Gray SAND & GRAVEL and SANDY LOAM with Pieces of SANDSTONE | | | | | | | | | |
| | | | | | | | | | | | | |

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)

ESCA
CONSULTANTS, INC.

| | | |
|--------------|-----|-------|
| DESIGNED BY: | RDP | 11/05 |
| DRAWN BY: | DWH | 11/05 |
| CHECKED BY: | MTD | 12/05 |
| APPROVED BY: | RDP | 05/06 |

SOIL BORINGS
IL ROUTE 178 OVER
UNNAMED TRIBUTARY
FAS 1279 SECTION 1071
LaSALLE COUNTY
STATION 1120+02.38
STRUCTURE NO. 050-2040

| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|---------|---------------------------|--------------|-----------|
| 1279 | * | LASALLE | 43 | 32 |
| STA. | | TO STA. | | |
| FED.-ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |

EXISTING S.N. 050-0153

FOR INFORMATION ONLY

EXISTING S.N. 050-0154

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

SECTION OF ABUTMENT

HALF CROSS SECTION

HALF END ELEVATION

SHOWING OUTLINES

ELEVATION

SHOWING REINFORCEMENT

FLAN

SECTION OF ABUTMENT

DETAIL OF NOTCH

END OF WING

END OF WING

REINFORCING STEEL LISTS

| Bars | No. | Size | Length |
|------|-----|------|--------|
| V | 40 | 1/2" | 9'-6" |
| W | 8 | 3/4" | 9'-6" |
| X | 12 | 1/2" | 6'-0" |
| Y | 12 | 1/2" | 6'-0" |
| Z | 36 | 1/2" | 9'-6" |
| AA | 8 | 1/2" | 10'-0" |
| BB | 8 | 1/2" | 6'-0" |
| CC | 36 | 1/2" | 9'-6" |
| DD | 16 | 1/2" | 4'-0" |
| EE | 2 | 3/4" | 5'-6" |
| FF | 8 | 1/2" | 10'-0" |
| GG | 16 | 1/2" | 10'-0" |
| HH | 36 | 1/2" | 9'-6" |
| II | 64 | 1/2" | 4'-3" |

REINFORCING STEEL LISTS

| Bars | No. | Size | Length |
|------|-----|------|--------|
| a | 44 | 1/2" | 16'-0" |
| b | 24 | 1/2" | 11'-0" |
| c | 8 | 1/2" | 14'-3" |
| d | 28 | 1/2" | 4'-0" |

Class X concrete to be used throughout.

REINFORCING STEEL LISTS 2220
Concrete C.S. 106.X 38.9

REINFORCING STEEL LISTS 1800
Concrete C.S. 106.Y 38.6

Concrete C.S. 106.Z 38.5

COMPUTED BY: J.L. Blum
CHECKED BY: J.L. Blum
DESIGNED BY: J.L. Blum
APPROVED BY: J.L. Blum

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

SECTION OF ABUTMENT

ELEVATION

SHOWING OUTLINES

SHOWING REINFORCEMENT

FLAN

DETAIL OF NOTCH

END OF WING

REINFORCING STEEL LISTS

| Bars | No. | Size | Length |
|------|-----|------|--------|
| 1 | 1 | 1/2" | 5'-0" |
| 2 | 1 | 1/2" | 5'-0" |
| 3 | 1 | 1/2" | 5'-0" |
| 4 | 1 | 1/2" | 5'-0" |
| 5 | 1 | 1/2" | 5'-0" |
| 6 | 1 | 1/2" | 5'-0" |
| 7 | 1 | 1/2" | 5'-0" |
| 8 | 1 | 1/2" | 5'-0" |
| 9 | 1 | 1/2" | 5'-0" |
| 10 | 1 | 1/2" | 5'-0" |
| 11 | 1 | 1/2" | 5'-0" |
| 12 | 1 | 1/2" | 5'-0" |
| 13 | 1 | 1/2" | 5'-0" |
| 14 | 1 | 1/2" | 5'-0" |
| 15 | 1 | 1/2" | 5'-0" |
| 16 | 1 | 1/2" | 5'-0" |
| 17 | 1 | 1/2" | 5'-0" |
| 18 | 1 | 1/2" | 5'-0" |
| 19 | 1 | 1/2" | 5'-0" |
| 20 | 1 | 1/2" | 5'-0" |
| 21 | 1 | 1/2" | 5'-0" |
| 22 | 1 | 1/2" | 5'-0" |
| 23 | 1 | 1/2" | 5'-0" |
| 24 | 1 | 1/2" | 5'-0" |
| 25 | 1 | 1/2" | 5'-0" |
| 26 | 1 | 1/2" | 5'-0" |
| 27 | 1 | 1/2" | 5'-0" |
| 28 | 1 | 1/2" | 5'-0" |
| 29 | 1 | 1/2" | 5'-0" |
| 30 | 1 | 1/2" | 5'-0" |
| 31 | 1 | 1/2" | 5'-0" |
| 32 | 1 | 1/2" | 5'-0" |
| 33 | 1 | 1/2" | 5'-0" |
| 34 | 1 | 1/2" | 5'-0" |
| 35 | 1 | 1/2" | 5'-0" |
| 36 | 1 | 1/2" | 5'-0" |
| 37 | 1 | 1/2" | 5'-0" |
| 38 | 1 | 1/2" | 5'-0" |
| 39 | 1 | 1/2" | 5'-0" |
| 40 | 1 | 1/2" | 5'-0" |
| 41 | 1 | 1/2" | 5'-0" |
| 42 | 1 | 1/2" | 5'-0" |
| 43 | 1 | 1/2" | 5'-0" |
| 44 | 1 | 1/2" | 5'-0" |
| 45 | 1 | 1/2" | 5'-0" |
| 46 | 1 | 1/2" | 5'-0" |
| 47 | 1 | 1/2" | 5'-0" |
| 48 | 1 | 1/2" | 5'-0" |
| 49 | 1 | 1/2" | 5'-0" |
| 50 | 1 | 1/2" | 5'-0" |
| 51 | 1 | 1/2" | 5'-0" |
| 52 | 1 | 1/2" | 5'-0" |
| 53 | 1 | 1/2" | 5'-0" |
| 54 | 1 | 1/2" | 5'-0" |
| 55 | 1 | 1/2" | 5'-0" |
| 56 | 1 | 1/2" | 5'-0" |
| 57 | 1 | 1/2" | 5'-0" |
| 58 | 1 | 1/2" | 5'-0" |
| 59 | 1 | 1/2" | 5'-0" |
| 60 | 1 | 1/2" | 5'-0" |
| 61 | 1 | 1/2" | 5'-0" |
| 62 | 1 | 1/2" | 5'-0" |
| 63 | 1 | 1/2" | 5'-0" |
| 64 | 1 | 1/2" | 5'-0" |
| 65 | 1 | 1/2" | 5'-0" |
| 66 | 1 | 1/2" | 5'-0" |
| 67 | 1 | 1/2" | 5'-0" |
| 68 | 1 | 1/2" | 5'-0" |
| 69 | 1 | 1/2" | 5'-0" |
| 70 | 1 | 1/2" | 5'-0" |
| 71 | 1 | 1/2" | 5'-0" |
| 72 | 1 | 1/2" | 5'-0" |
| 73 | 1 | 1/2" | 5'-0" |
| 74 | 1 | 1/2" | 5'-0" |
| 75 | 1 | 1/2" | 5'-0" |
| 76 | 1 | 1/2" | 5'-0" |
| 77 | 1 | 1/2" | 5'-0" |
| 78 | 1 | 1/2" | 5'-0" |
| 79 | 1 | 1/2" | 5'-0" |
| 80 | 1 | 1/2" | 5'-0" |
| 81 | 1 | 1/2" | 5'-0" |
| 82 | 1 | 1/2" | 5'-0" |
| 83 | 1 | 1/2" | 5'-0" |
| 84 | 1 | 1/2" | 5'-0" |
| 85 | 1 | 1/2" | 5'-0" |
| 86 | 1 | 1/2" | 5'-0" |
| 87 | 1 | 1/2" | 5'-0" |
| 88 | 1 | 1/2" | 5'-0" |
| 89 | 1 | 1/2" | 5'-0" |
| 90 | 1 | 1/2" | 5'-0" |
| 91 | 1 | 1/2" | 5'-0" |
| 92 | 1 | 1/2" | 5'-0" |
| 93 | 1 | 1/2" | 5'-0" |
| 94 | 1 | 1/2" | 5'-0" |
| 95 | 1 | 1/2" | 5'-0" |
| 96 | 1 | 1/2" | 5'-0" |
| 97 | 1 | 1/2" | 5'-0" |
| 98 | 1 | 1/2" | 5'-0" |
| 99 | 1 | 1/2" | 5'-0" |
| 100 | 1 | 1/2" | 5'-0" |

Class X concrete shall be used throughout.

All reinforcing steel shall be wired securely in place before concrete is poured.

COMPUTED BY: J.L. Blum
CHECKED BY: J.L. Blum
DESIGNED BY: J.L. Blum
APPROVED BY: J.L. Blum

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

REINFORCED CONCRETE SLAB
SPAN - FOURTEEN FEET

CROSS SECTION OF SLAB

RAIL A

RAIL B

RAIL C

BILL OF MATERIAL

| RAIL | OFF-ROADWAY | OFF-ROADWAY | OFF-ROADWAY | OFF-ROADWAY | OFF-ROADWAY |
|------|-------------|-------------|-------------|-------------|-------------|
| A | 1 | 1 | 1 | 1 | 1 |
| | 2 | 2 | 2 | 2 | 2 |
| | 3 | 3 | 3 | 3 | 3 |
| | 4 | 4 | 4 | 4 | 4 |
| B | 5 | 5 | 5 | 5 | 5 |
| | 6 | 6 | 6 | 6 | 6 |
| | 7 | 7 | 7 | 7 | 7 |
| | 8 | 8 | 8 | 8 | 8 |
| C | 9 | 9 | 9 | 9 | 9 |
| | 10 | 10 | 10 | 10 | 10 |
| | 11 | 11 | 11 | 11 | 11 |
| | 12 | 12 | 12 | 12 | 12 |

Class X concrete to be used throughout.

USE RAIL C, 40 FT. ROADWAY

COMPUTED BY: J.L. Blum
CHECKED BY: J.L. Blum
DESIGNED BY: J.L. Blum
APPROVED BY: J.L. Blum

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

PLAN

STATIONING

Station 120+00 to 120+20

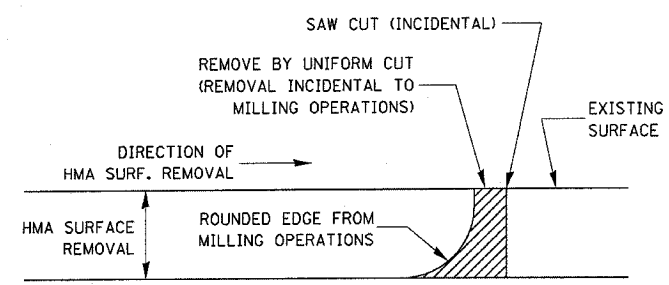
COMPUTED BY: J.L. Blum
CHECKED BY: J.L. Blum
DESIGNED BY: J.L. Blum
APPROVED BY: J.L. Blum

EXISTING S.N. 050-0154

S.B.I. ROUTE 178 SECTION 107B
LA SALLE COUNTY
STATION 120+02

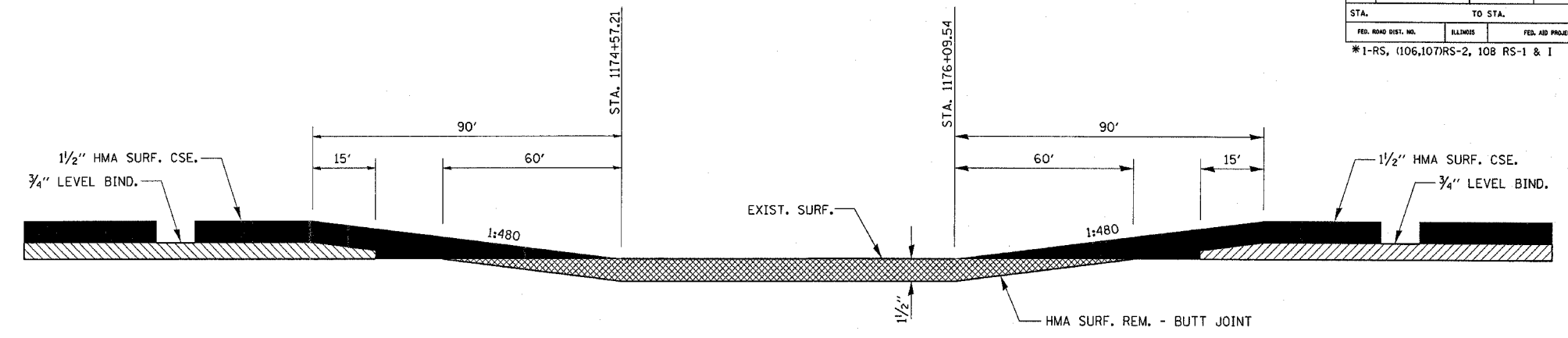
EXISTING S.N. 050-0154

| F. A. S. NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------------------------------------------|---------|---------|--------------|-----------|
| 1279 | * | LASALLE | 43 | 33 |
| STA. TO STA. | | | | |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | |
| *1-RS, (106,107)RS-2, 108 RS-1 & 1 | | | | |

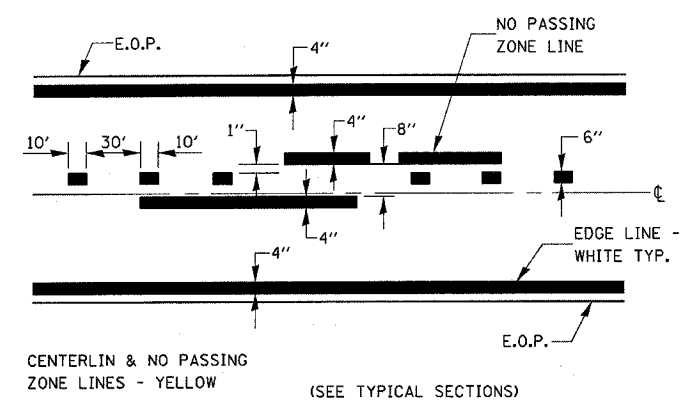


NOTE:
 WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL

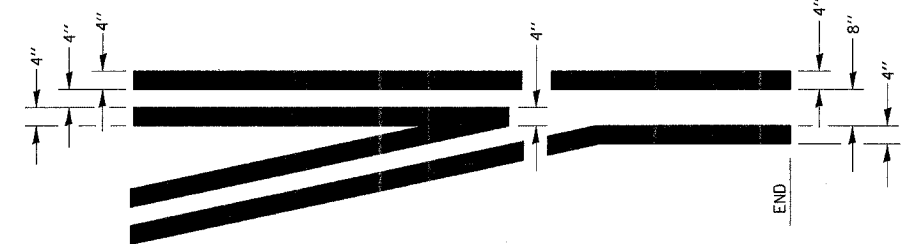
HMA DETAIL AT BUTT JOINTS



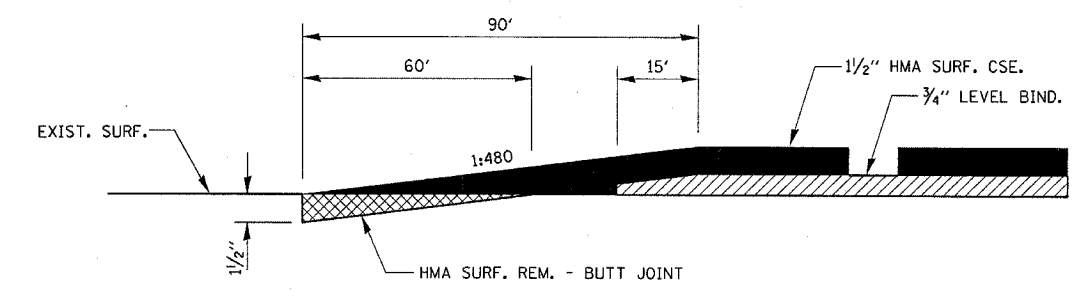
DETAIL AT CONCRETE ENTRANCE



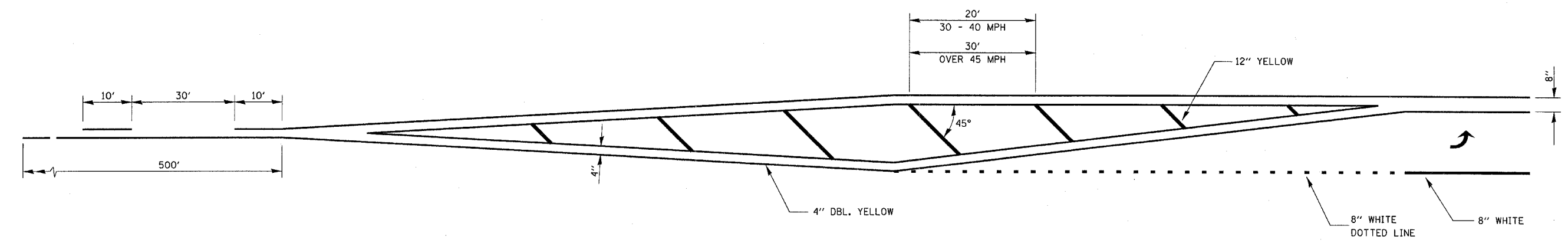
PAVEMENT MARKING



TYPICAL APPLICATION @ LEFT TURN LANES



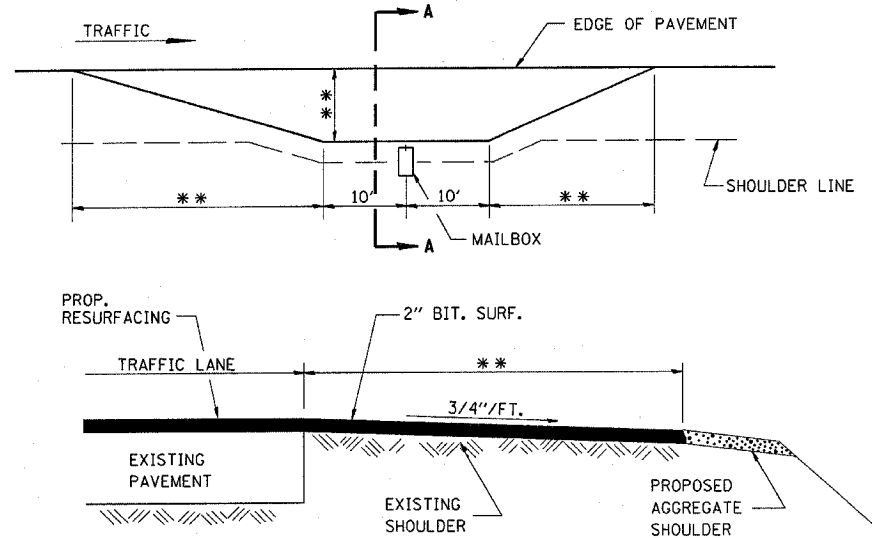
BUTT JOINT DETAIL



DATE - TIME
 ct\projects\ep0200\detail.is.dgn

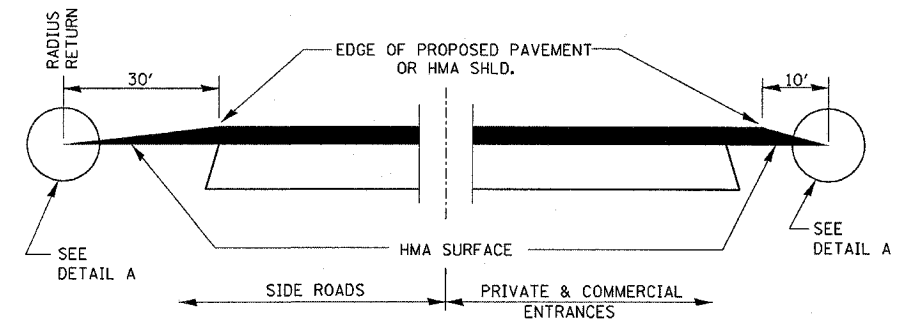
| F. A. S. ETC. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|----------|------------------|--------------|-----------|
| 1279 | # | LASALLE | 43 | 34 |
| STA. | TO STA. | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

* 1-RS, (106,107)RS-2, 108 RS-1 & 1



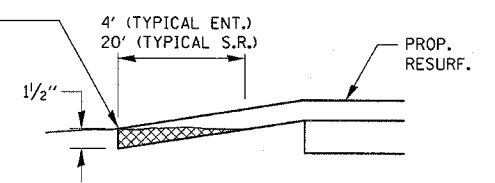
SECTION A-A
MAILBOX TURNOUT DETAILS

*** SEE STANDARD 406201 OR MATCH EXISTING

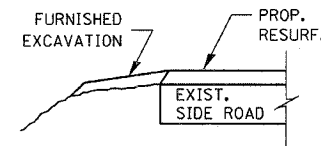


SECTION A-A
DETAILS AT ENTRANCES & SIDE ROADS

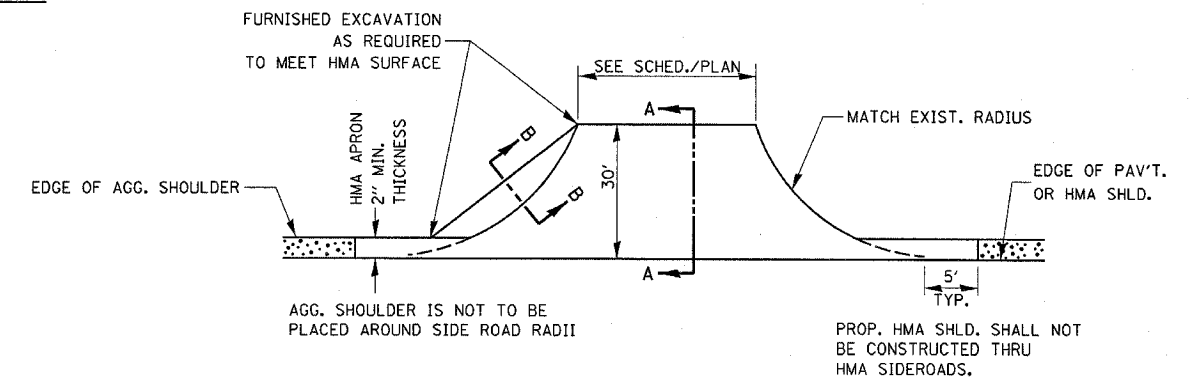
THE COST OF REMOVAL AT EXISTING HMA OR P.C.C. LOCATIONS SHALL BE PAID FOR PER SQ. YD. BY THE APPROPRIATE PAY ITEM. REMOVAL AT THE EXISTING AGG. LOCATIONS SHALL BE INCIDENTAL TO THE HMA. A-3 LOCATIONS SHALL BE FEATHER TAPERED.



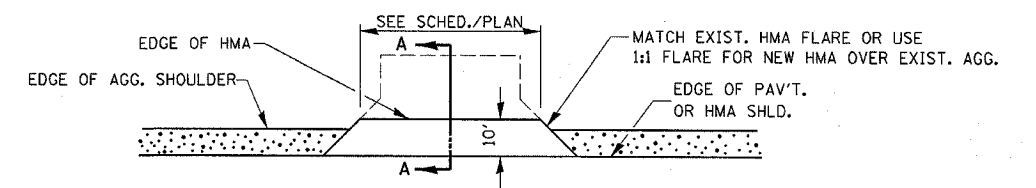
DETAIL A



SECTION B-B

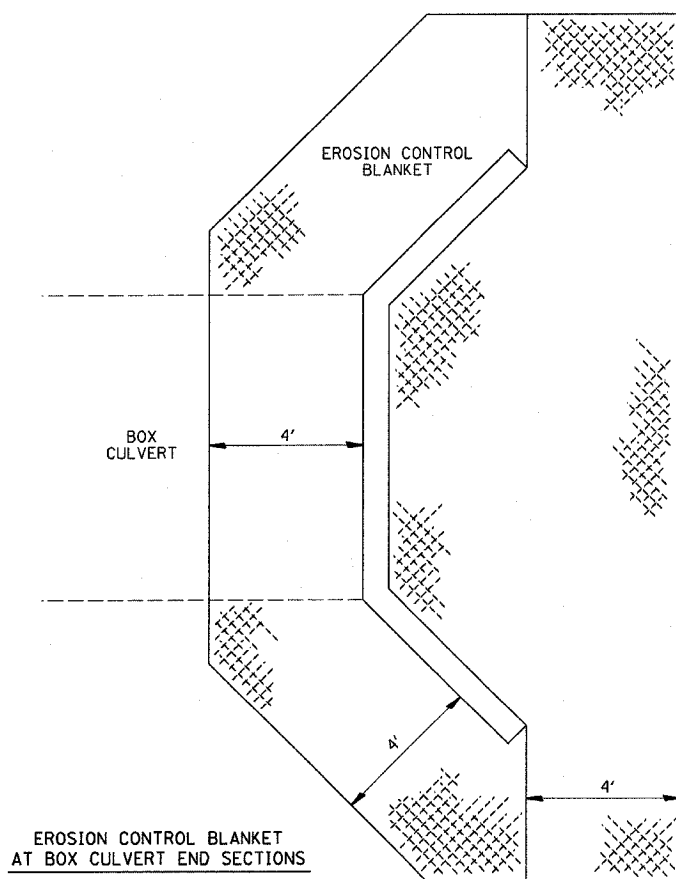


PLAN AT SIDE ROADS



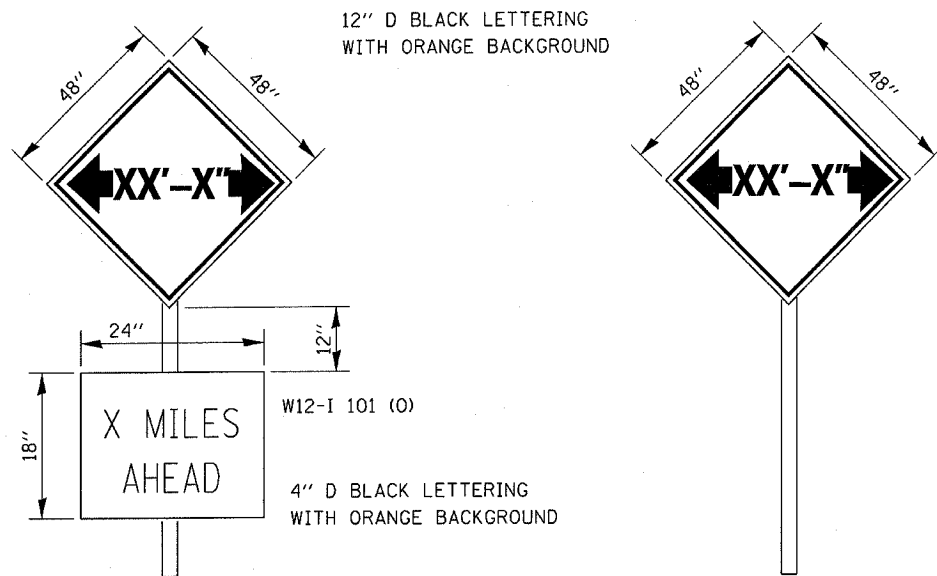
PLAN AT PRIVATE & COMMERCIAL ENTRANCES

(DO NOT RESURFACE FIELD ENTRANCES)



EROSION CONTROL BLANKET
AT BOX CULVERT END SECTIONS

| F. & A. DIST. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|------------------------------------|---------|------------------|--------------|-----------|
| 1279 | * | LASALLE | 43 | 35 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | BLINDS | FED. AID PROJECT | | |
| *1-RS, (106,107)RS-2, 108 RS-1 & I | | | | |



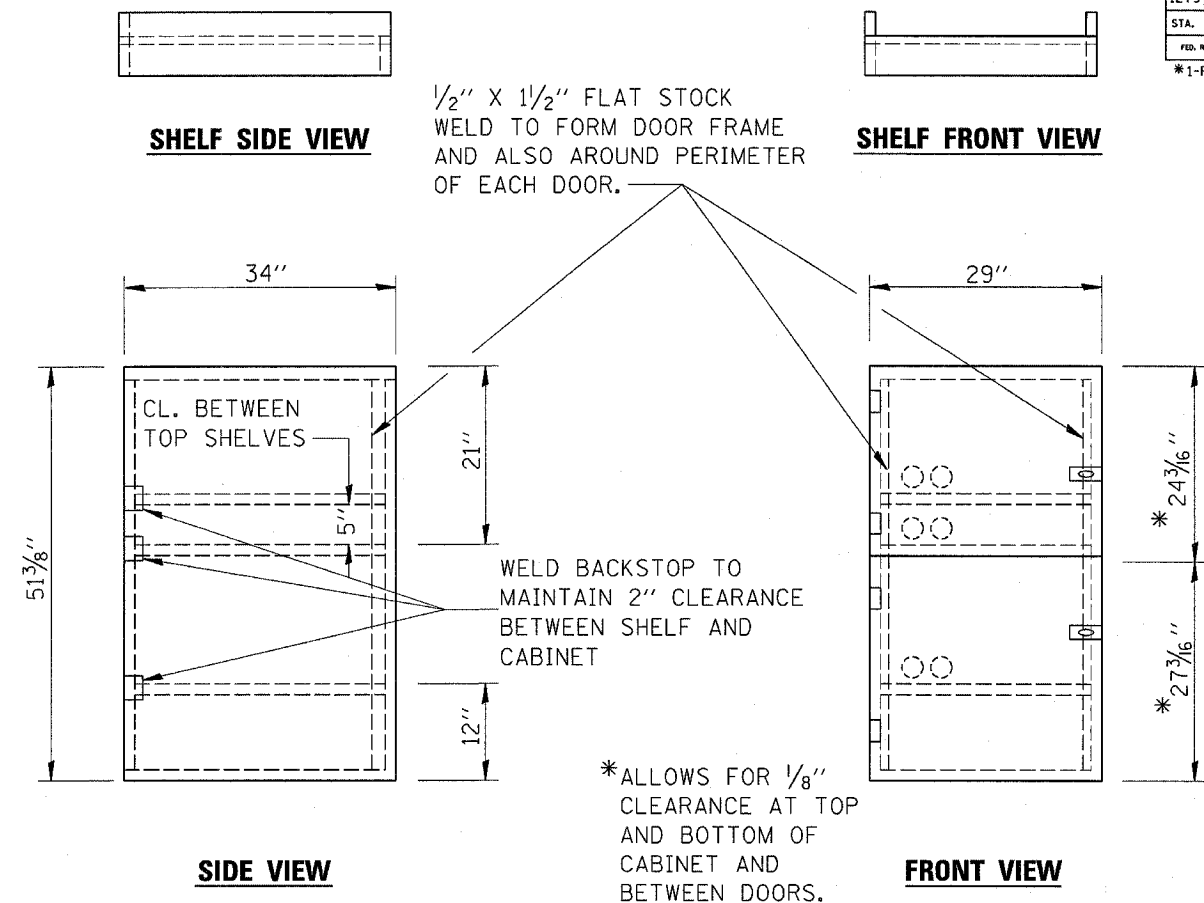
TO BE POST MOUNTED AS SHOWN ELSEWHERE IN THE PLANS.

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

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

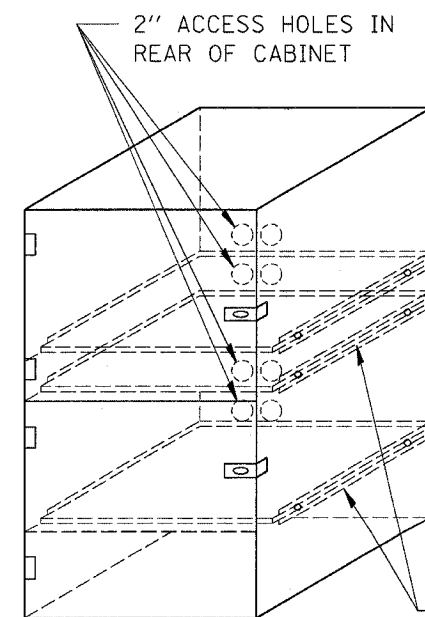
COST OF SUPPLYING, INSTALLING, MAINTAINING AND REMOVING WIDTH RESTRICTION SIGNS SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION PAY ITEMS.

WIDTH RESTRICTION SIGNING DETAILS



NOTES:

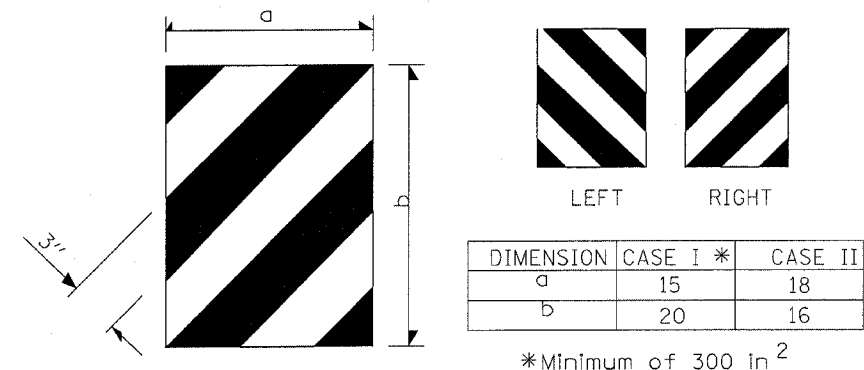
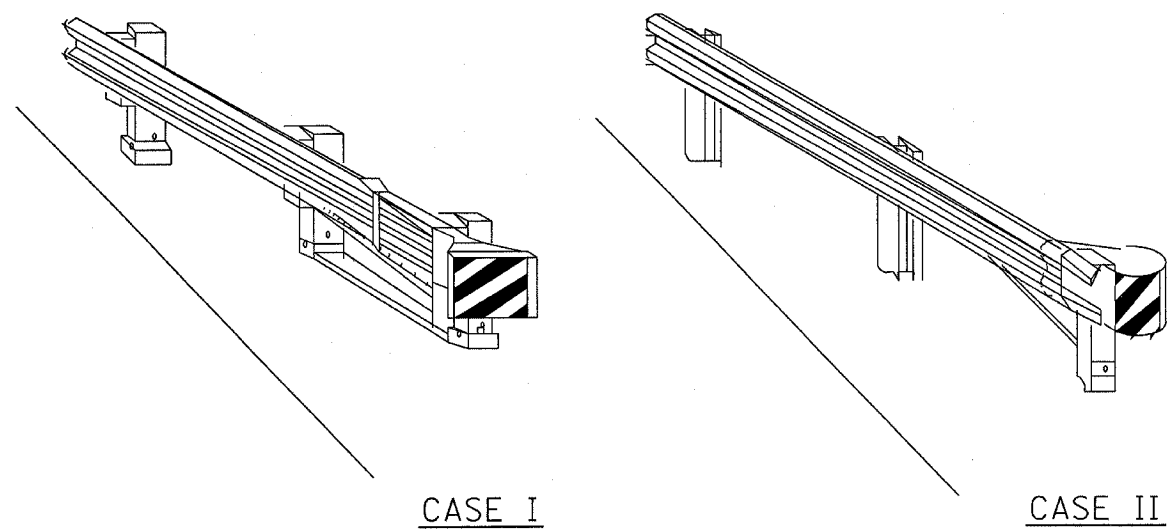
1. USE 16 GAUGE STEEL FOR CABINET.
2. THE TOP SHELF SHALL SLIDE IN OR OUT WITH THE TOP DOOR OPEN.
3. ALL HINGES AND HASPS WILL BE WELDED TO THE CABINET.
4. ALL EDGES SHALL BE GROUND SMOOTH.
5. TWO (2" DIA.) ACCESS HOLES WILL BE REQUIRED FOR EACH SHELF.
6. CABINET SHALL BE PAINTED WITH TWO COATS OF FLAT PAINT.
7. 2 EACH MATCHING KEY PADLOCKS, WITH 3 KEYS PROVIDED, MASTER MODEL 3 T OR EQUIVALENT.
8. 4 EACH PLAIN STEEL, NON-REMOVABLE PIN, NO HOLE 4" x 4" SQUARE CORNER HINGES TO BE WELDED ON.
9. 2 EACH EXTRA HEAVY, PLAIN STEEL, FIXED STAPLE, NO HOLE, 7/4" HASPS TO BE WELDED ON.



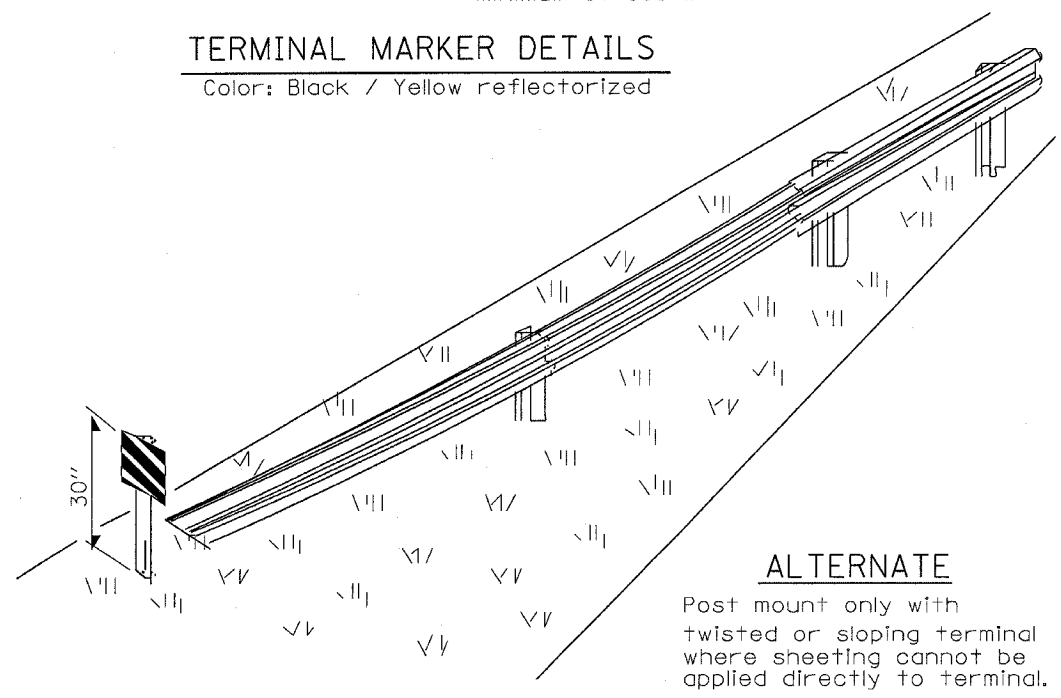
FLAT STOCK DIMENSIONS VARY DEPENDING ON TYPE OF ROLLER ASSEMBLY.

LOCKABLE COMPUTER CABINET

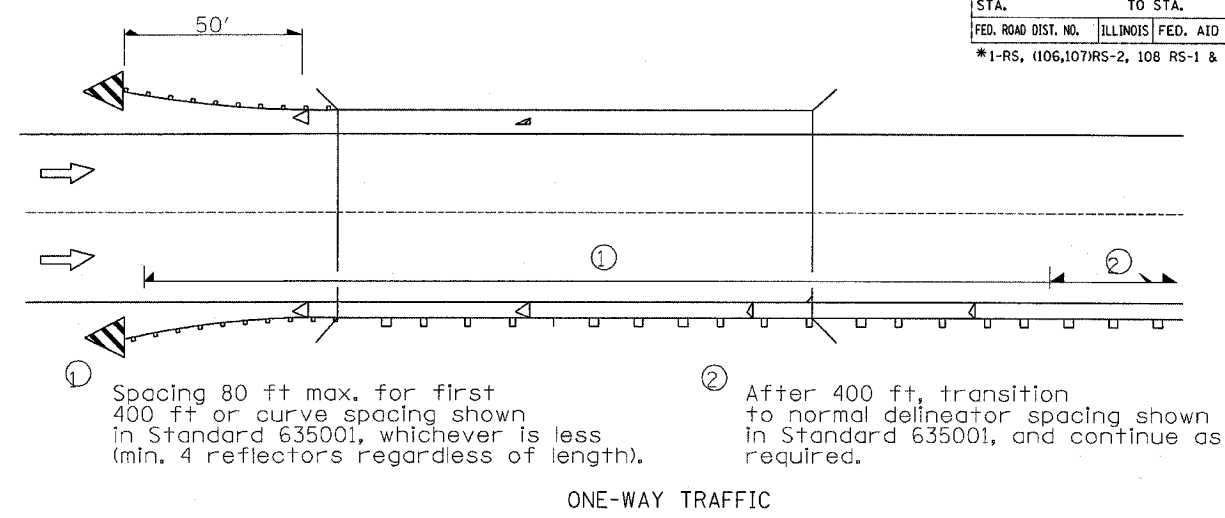
| | | | | |
|------------------------------------|----------|------------------|--------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1279 | * | LASALLE | 43 | 36 |
| STA. | TO STA. | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |
| *1-RS, (106,107)RS-2, 108 RS-1 & I | | | | |



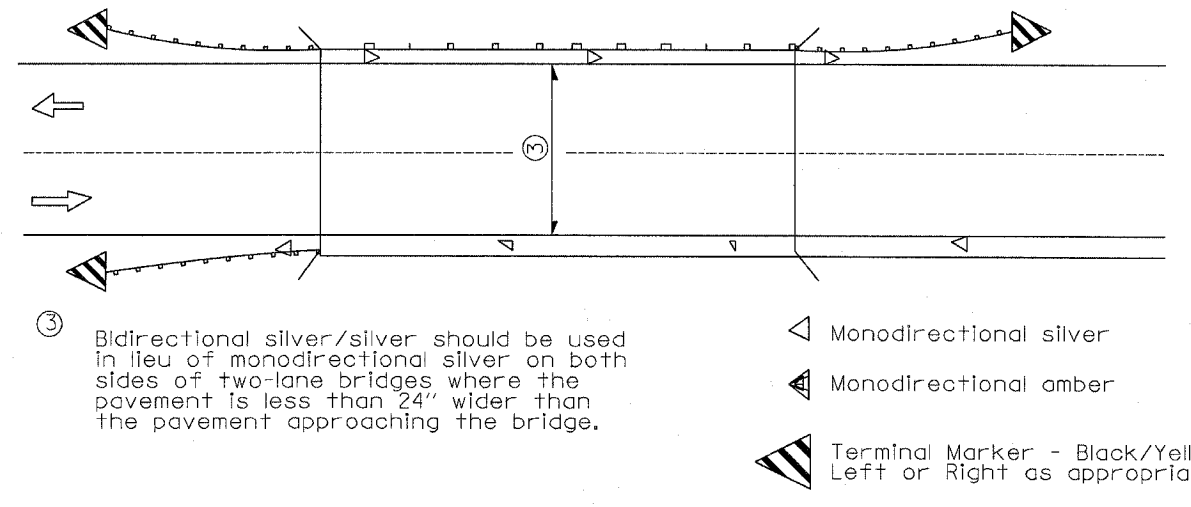
TERMINAL MARKER DETAILS
Color: Black / Yellow reflectorized



ALTERNATE
Post mount only with twisted or sloping terminal where sheeting cannot be applied directly to terminal.

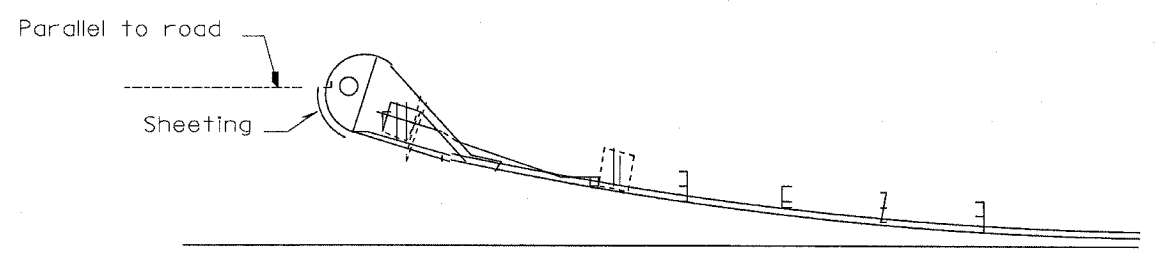


ONE-WAY TRAFFIC



TWO-WAY TRAFFIC

GUARDRAIL / BARRIER WALL / BRIDGE RAIL REFLECTORS



SHEETING POSITION: CASE II

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

REFLECTOR AND TERMINAL MARKER PLACEMENT

SCALE: VERT. HORIZ. DATE

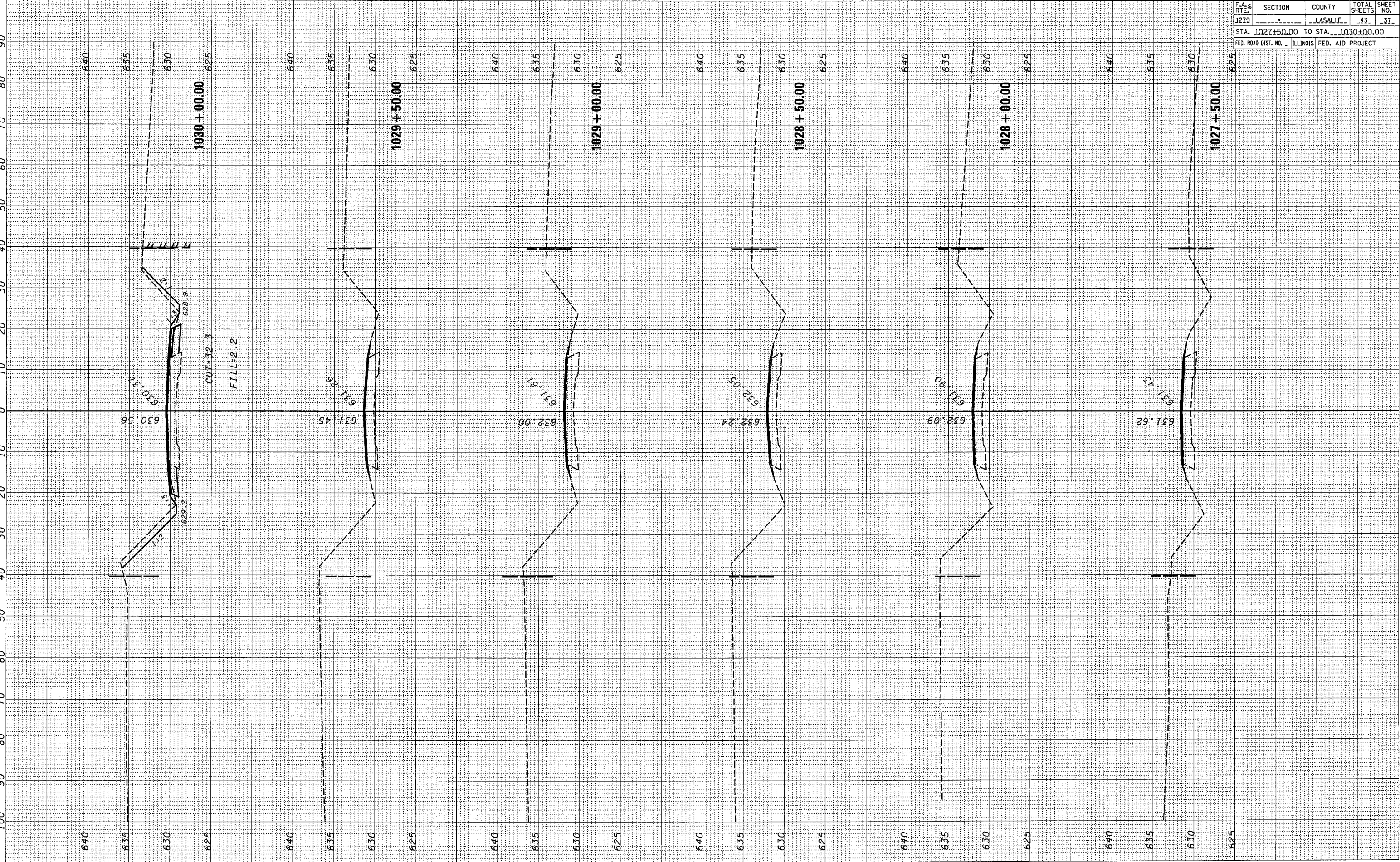
DRAWN BY CHECKED BY

| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------------------------------------------|---------|---------|--------------|-----------|
| 1279 | | LASALLE | 43 | 37 |
| STA. 1027+50.00 TO STA. 1030+00.00 | | | | |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | |

| BY | DATE |
|----|------|
| | |

| NO. | DATE | BY |
|-----|------|----|
| | | |

PLOT DATE = 3/23/2007
 FILE NAME = \\s176\p000001\176\p000001\176\p000001.dwg
 PLOT SCALE = 80/100
 USER NAME = schnekerjg



90
80
70
60
50
40
30
20
10
0
10
20
30
40
50
60
70
80
90
100

3/23/2007

BY

DATE

BY

DATE

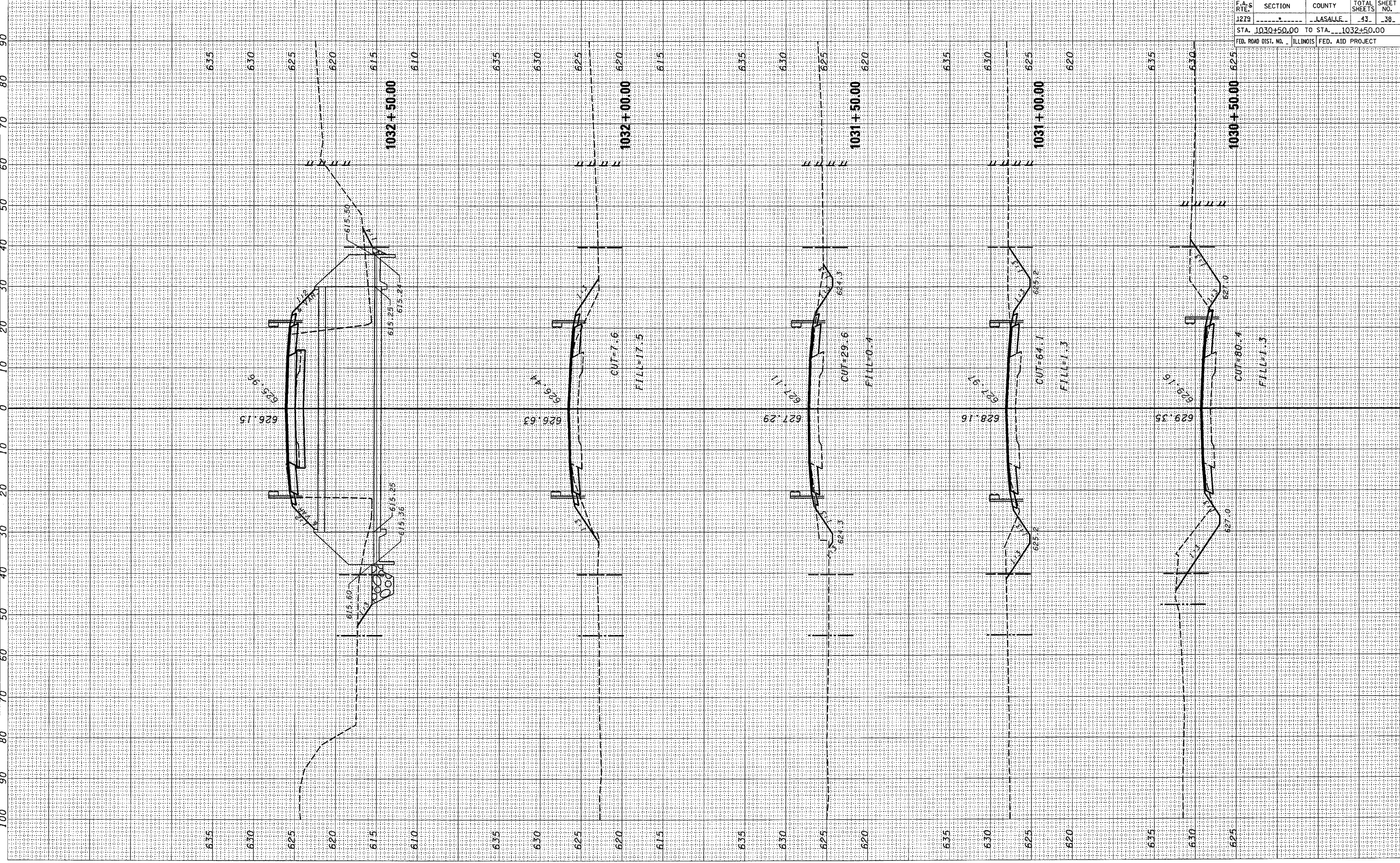
BY

DATE

ORIGINAL SURVEYED
SERIES PLOTTED
PLOT SCALE = 1"=40'
USER NAME = schenker
NO. AREAS CHECKED

FINAL SURVEY
SERIES PLOTTED
PLOT SCALE = 1"=40'
USER NAME = schenker
NO. AREAS CHECKED

| | | | | |
|-----------------------------------------------|---------|---------|--------------|-----------|
| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 1279 | | LASALLE | 43 | 38 |
| STA. 1030+50.00 TO STA. 1032+50.00 | | | | |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | |



| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------------------------------------------|---------|---------|--------------|-----------|
| 1279 | | LASALLE | 43 | 39 |
| STA. 1033+00.00 TO STA. 1035+00.00 | | | | |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | |

| BY | DATE |
|----|------|
| | |

| NO. | AREAS CHECKED |
|-----|---------------|
| | |

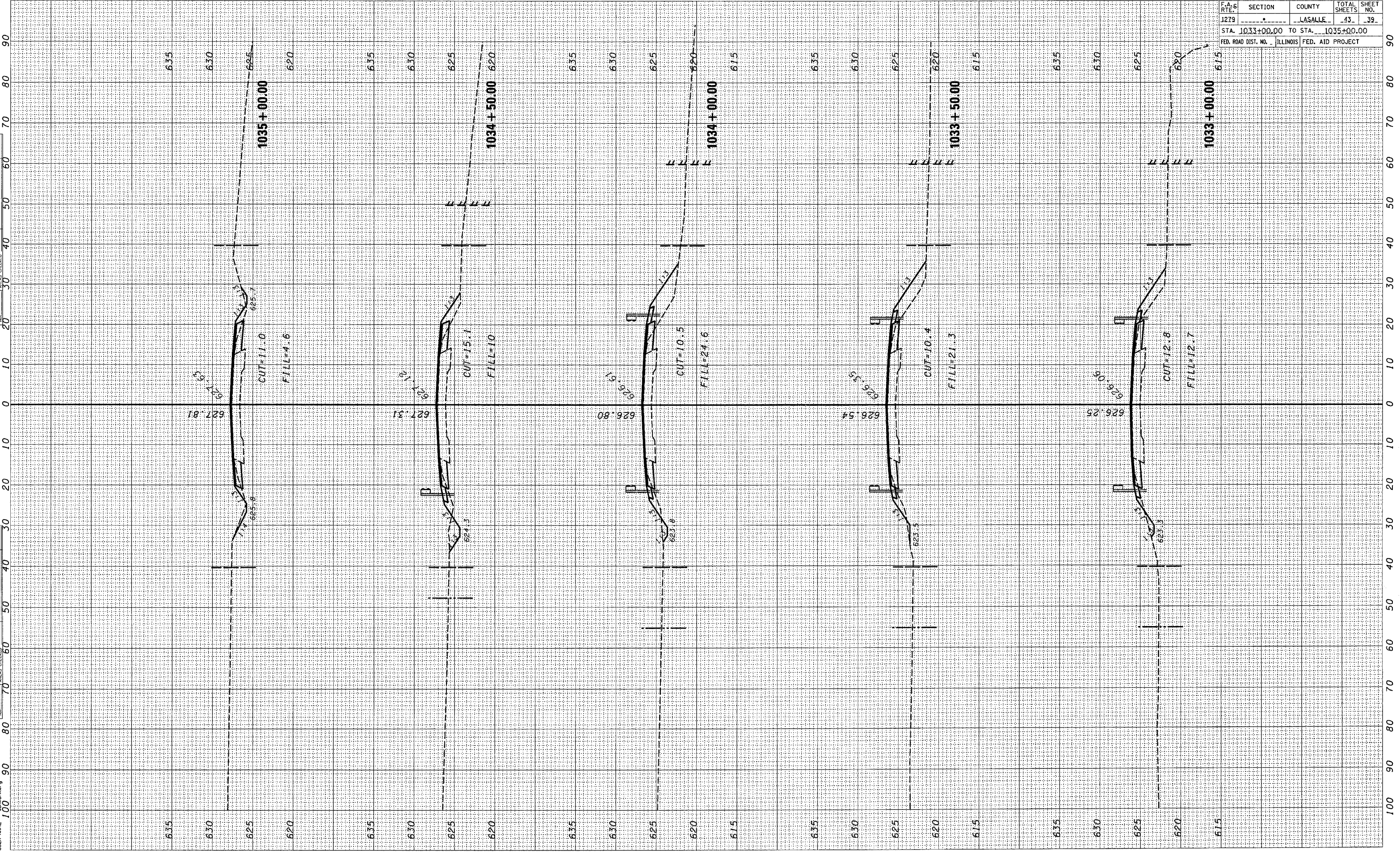
| NO. | AREAS CHECKED |
|-----|---------------|
| | |

| BY | DATE |
|----|------|
| | |

| NO. | AREAS CHECKED |
|-----|---------------|
| | |

| NO. | AREAS CHECKED |
|-----|---------------|
| | |

PLOT DATE = 1/23/2007
 PLOT SCALE = 1"=40'
 USER NAME = schenker-g



90
80
70
60
50
40
30
20
10
0
10
20
30
40
50
60
70
80
90
100

| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|------------------------------------|---------|---------|---------------------------|-----------|
| 1279 | | LaSALLE | 43 | 40 |
| STA. 1117+25.00 TO STA. 1119+00.00 | | | | |
| FED. ROAD DIST. NO. | | | ILLINOIS FED. AID PROJECT | |

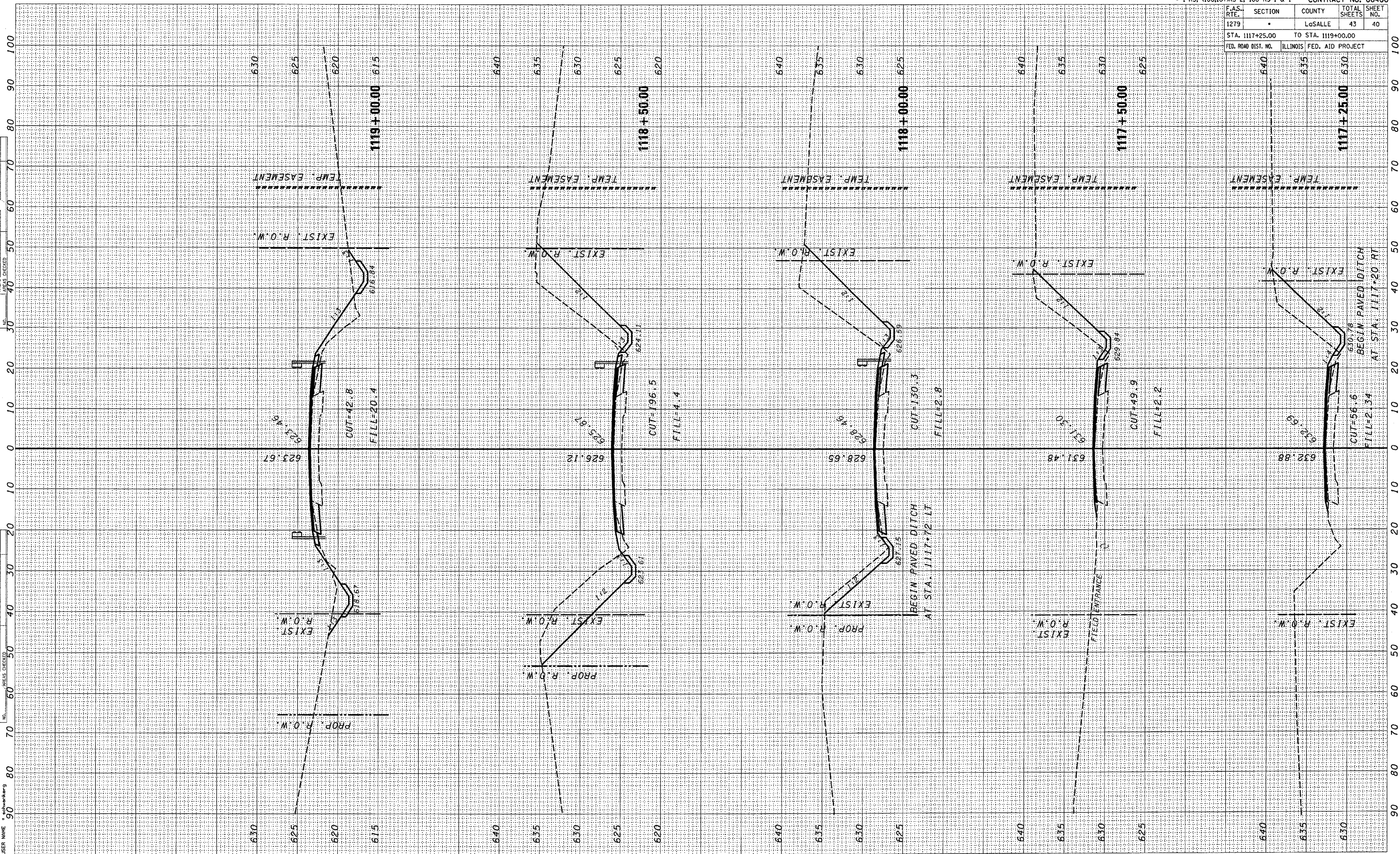
BY: _____ DATE: _____

| | |
|--------------------------|-----------------|
| <input type="checkbox"/> | FINISH SURVEYED |
| <input type="checkbox"/> | PLOTTED |
| <input type="checkbox"/> | TEMPLATE |
| <input type="checkbox"/> | NO. BOOK |
| <input type="checkbox"/> | AREAS CHECKED |

BY: _____ DATE: _____

| | |
|--------------------------|---------------|
| <input type="checkbox"/> | PREPARED |
| <input type="checkbox"/> | PLOTTED |
| <input type="checkbox"/> | TEMPLATE |
| <input type="checkbox"/> | NO. BOOK |
| <input type="checkbox"/> | AREAS CHECKED |

PLOT DATE = 3/23/2007
 FILE NAME = \\p2001\work\1178-1190\proj\proj\1117-1190.dwg
 PLOT SCALE = 800/1000
 USER NAME = schwenker

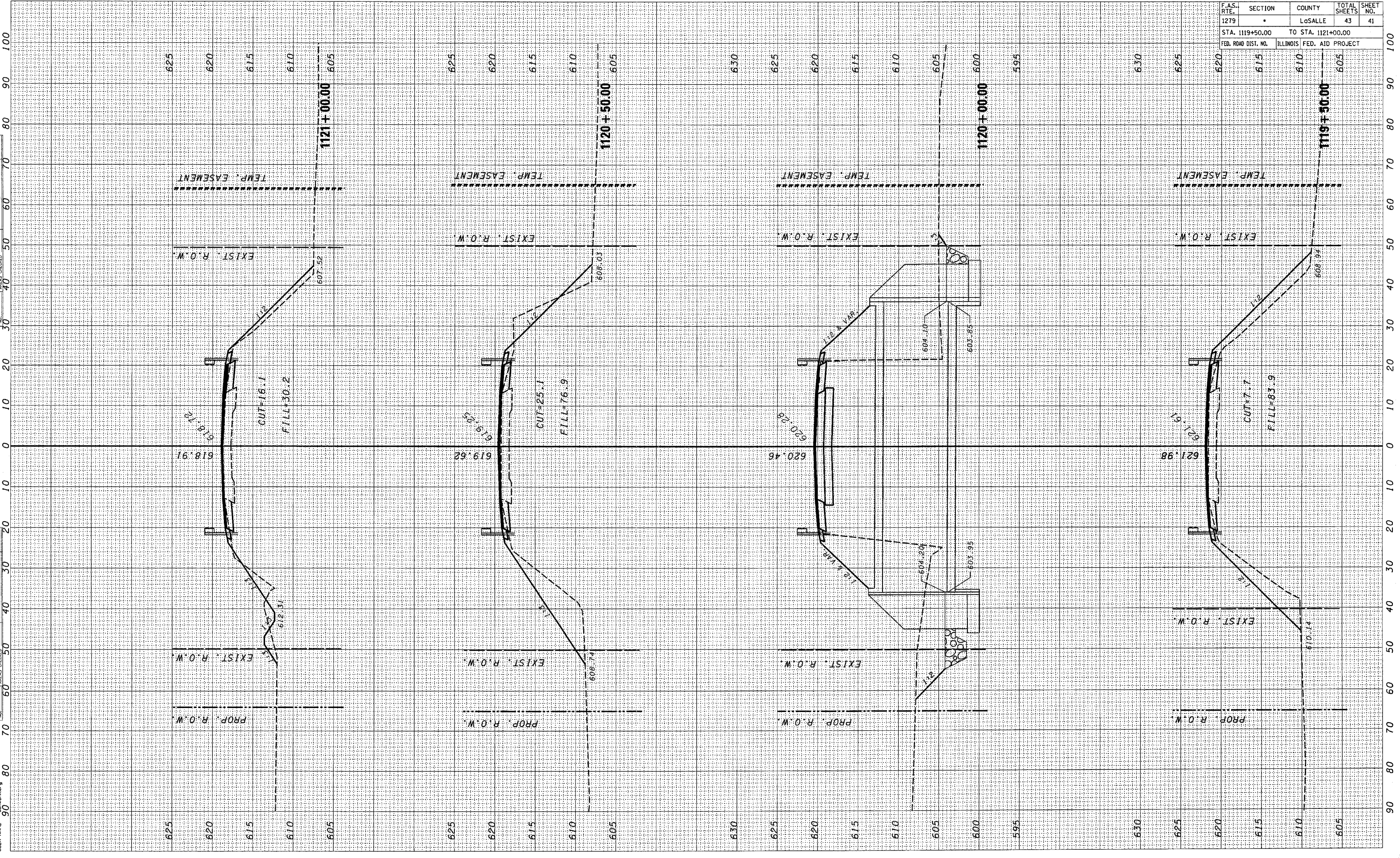


PLOT DATE = 3/23/2007
 USER NAME = schwenkrs

ORIGINAL SURVEYED PLOTTED
 NO. AREAS CHECKED

FINAL SURVEYED PLOTTED
 NO. AREAS CHECKED

BY DATE



• 1-RS, (106,107)RS-2, 108 RS-1 & 1 CONTRACT NO. 66400

| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|---------|---------|--------------|-----------|
| 1279 | | LaSALLE | 43 | 41 |

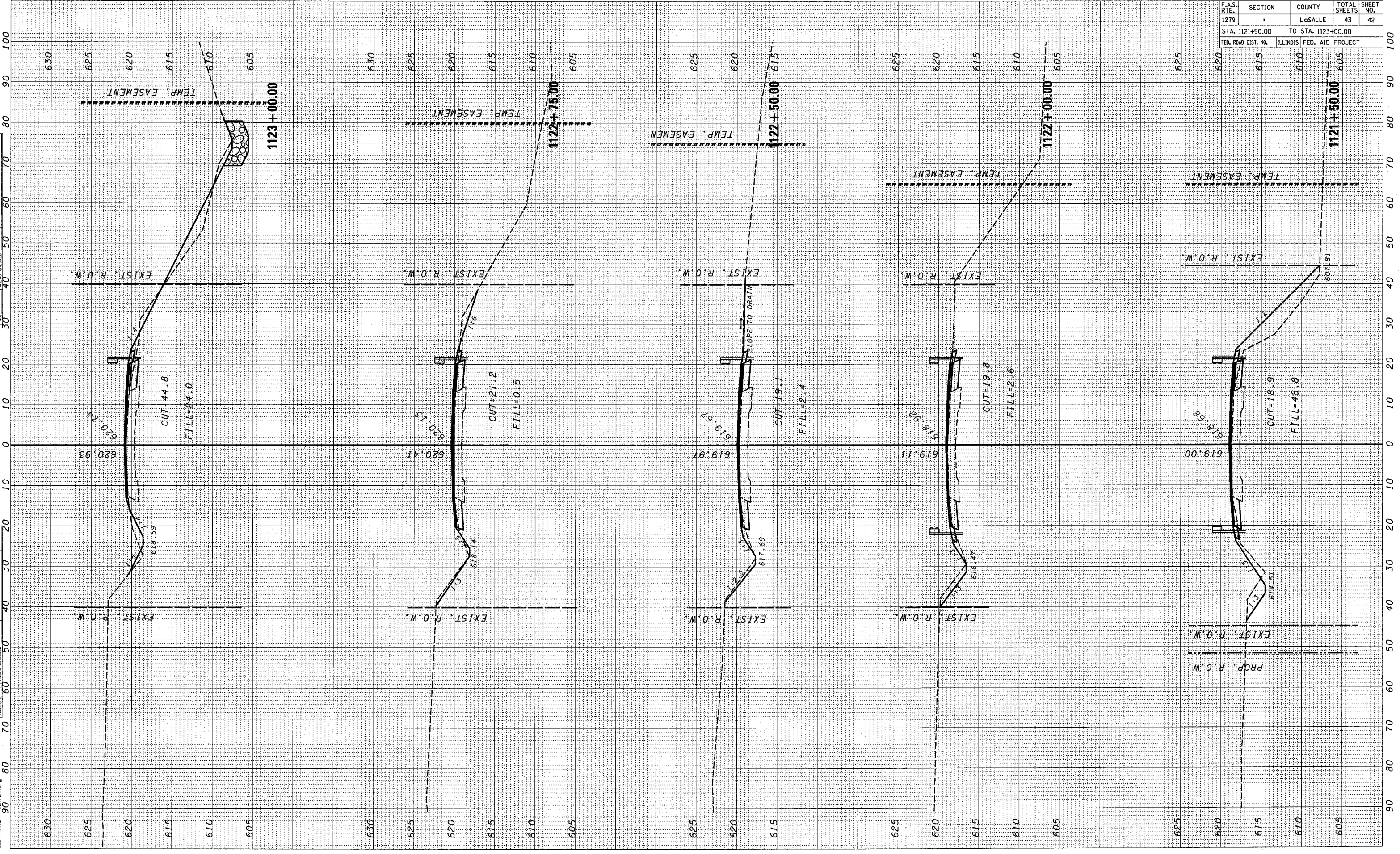
STA. 1119+50.00 TO STA. 1121+00.00
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

| F.A.S. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|---------|---------------------------|--------------|-----------|
| 1279 | | LoSALLE | 43 | 42 |
| STA. 1121+50.00 | | TO STA. 1123+00.00 | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |

| | | |
|---------------|----|------|
| FINAL SURVEY | BY | DATE |
| SURVEYED | | |
| PLOTTED | | |
| TEMPERATURE | | |
| AREAS CHECKED | | |

| | | |
|-----------------|----|------|
| ORIGINAL SURVEY | BY | DATE |
| SURVEYED | | |
| PLOTTED | | |
| TEMPERATURE | | |
| AREAS CHECKED | | |

PLOT DATE = 3/23/2007
 PLOT NAME = I:\Projects\66400\1121+50\1121+50.dwg
 PLOT SCALE = 1"=40'
 USER NAME = schwankeg



| | | | | |
|---------------------|--------------|--------------------|--------------------|-----------------|
| F.A.S. RTE. 1279 | SECTION • | COUNTY LaSALLE | TOTAL SHEETS 43 | SHEET NO. 43 |
| STA. 1123+50.00 | | TO STA. 1125+50.00 | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

| | |
|---------------|------|
| FINN SURVEY | DATE |
| SURVEYED | |
| PLOTTED | |
| TEMPLATE | |
| AREAS CHECKED | |
| NO. | |

| | |
|---------------|------|
| ORCHAL SURVEY | DATE |
| SURVEYED | |
| PLOTTED | |
| TEMPLATE | |
| AREAS CHECKED | |
| NO. | |

PLOT DATE = 3/23/2007
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