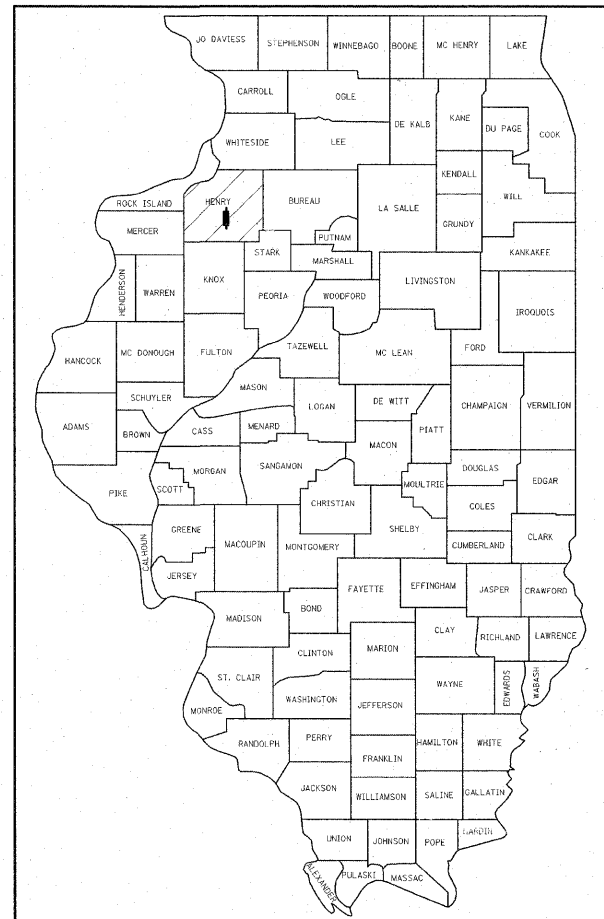


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	136BR-1, 137-1BR	HENRY	67	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 64428		

D-92-061-99



LOCATION OF SECTION INDICATED THUS:

FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL (NON URBAN)
DESIGN SPEED: 55 mph
POSTED SPEED: 55 mph
SECTION: 136BR-1 137-1BR
ADT: 2550 1500 (2008)
PV: 95.0% 92.8%
SU: 3.0% 4.1%
MU: 2.0% 3.1%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED *March 25, 2009*
Steven F. Payne
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 8, 2009
Charles J. Ingersoll
ENGINEER OF DESIGN AND ENVIRONMENT

May 8, 2009
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

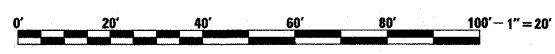
PROPOSED HIGHWAY PLANS

FAP ROUTE 638 (IL 82)
SECTION 136BR-1, 137-1BR
PROJECT ACF-0638(011)
HENRY COUNTY

C 92-060-09
STRUCTURE REPLACEMENTS
OVER NORTH AND SOUTH BRANCHES OF SPRING CREEK
4TH PM

INDEX OF SHEETS

- | | |
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| 2. | GENERAL NOTES AND STANDARDS |
| 3. | SUMMARY OF QUANTITIES |
| ROADWAY PLANS - SN 037-0173 | |
| 4.-5. | TYPICAL SECTIONS |
| 6.-7. | SCHEDULE OF QUANTITIES |
| 8. | HORIZONTAL AND VERTICAL CONTROL |
| 9.-10. | FAP RTE 638 (IL 82) PLAN AND PROFILE |
| 11. | DETOUR DETAILS |
| 12. | EROSION CONTROL AND DRAINAGE PLAN |
| 13. | MISCELLANEOUS DETAILS |
| STRUCTURE PLANS - SN 037-0173 | |
| 14. | GENERAL PLAN |
| 15. | GENERAL DATA |
| 16.-17. | BOX CULVERT DETAILS |
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| 31. | HORIZONTAL AND VERTICAL CONTROL |
| 32.-34. | FAP RTE 638 (IL 82) PLAN AND PROFILE |
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| 37. | STAGE CONSTRUCTION DETAILS |
| 38. | EROSION CONTROL AND DRAINAGE PLAN |
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| 40. | GENERAL PLAN |
| 41. | GENERAL DATA |
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| DISTRICT 2 STANDARDS | |
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GRADING AROUND WINGWALLS (20.4)
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LAND SECTION & REFERENCE MARKERS (63.4)
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STORM WATER POLLUTION PREVENTION PLAN (2.1)
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TYPICAL PAVEMENT MARKINGS (41.1) |



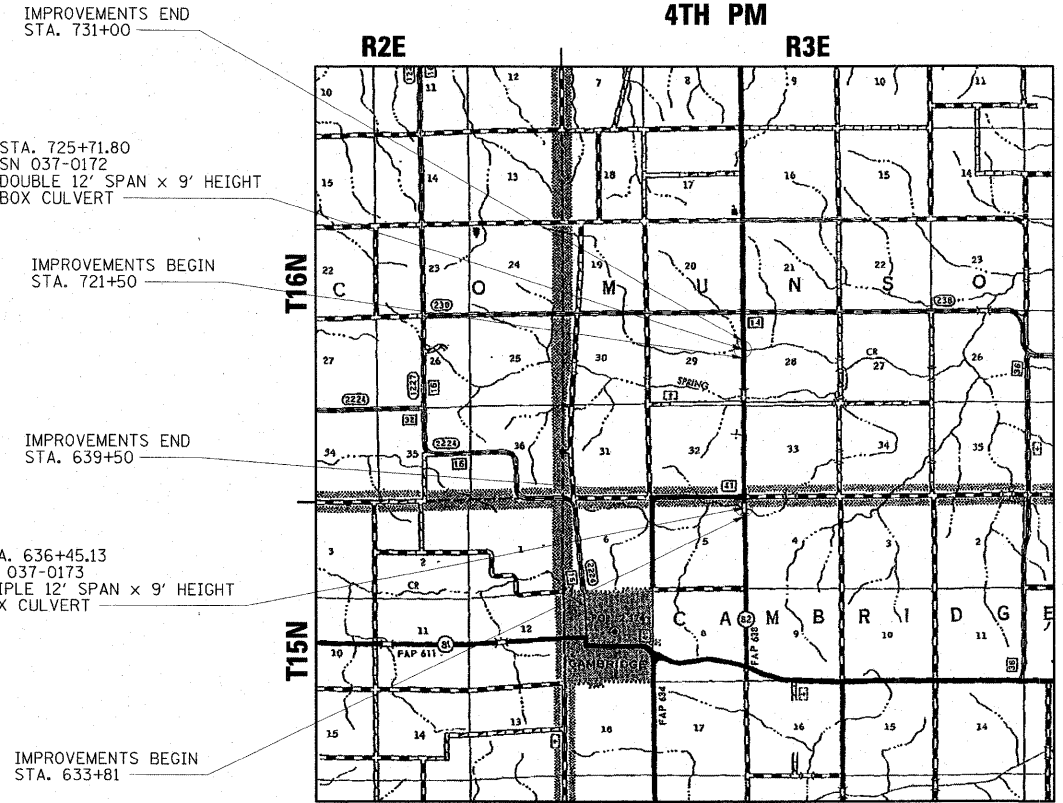
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

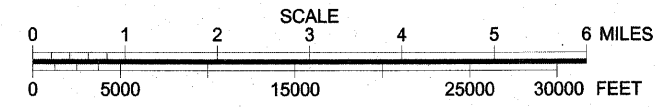
MUNSON TOWNSHIP, SEC. 28, 29
CAMBRIDGE TOWNSHIP, SEC. 4, 5

CONTRACT NO. 64428

FAP 638 (IL 82) SECTION 136BR-1, 137-1BR HENRY COUNTY



LOCATION MAP

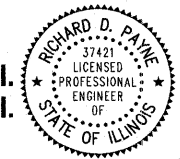


136BR-1	137-1BR
GROSS LENGTH = 950 FT. = 0.18 MI.	GROSS LENGTH = 560 FT. = 0.11 MI.
NET LENGTH = 950 FT. = 0.18 MI.	NET LENGTH = 560 FT. = 0.11 MI.



ESCA
CONSULTANTS, INC.

CIVIL & STRUCTURAL ENGINEERS
URBANA, ILLINOIS
(217)384-0505
PROJECT ENGINEER: ERIC HENKEL



Richard D. Payne DATE: 03/20/09
ILLINOIS PROFESSIONAL LICENSE NO. 37421
(EXPIRATION DATE: 11-30-09)

SQUAD LEADER: JENNIFER LUBBS (815)284-5958 PROJECT ENGINEER: BECKY MARRUFFO



SUMMARY OF QUANTITIES

80% FEDERAL
20% STATE

CODE NO.	ITEM	UNIT	TOTAL	CONSTRUCTION TYPE CODE	
				X028-2A	X028-2A
				SN 037-0172	SN 037-0173
X006929	REPLACE SECTION CORNER	EACH	1	1	-
20200100	EARTH EXCAVATION	CU YD	2780	2000	780
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	785	265	520
20400800	FURNISHED EXCAVATION	CU YD	110	-	110
25000210	SEEDING, CLASS 2A	ACRE	1.1	0.6	0.5
25000310	SEEDING, CLASS 4	ACRE	1.4	0.9	0.5
25000750	MOWING	ACRE	2.5	1.5	1.0
25100115	MULCH, METHOD 2	ACRE	10.0	6.0	4.0
25100630	EROSION CONTROL BLANKET	SQ YD	8010	5480	2530
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1000	600	400
28000300	TEMPORARY DITCH CHECKS	EACH	23	14	9
28000400	PERIMETER EROSION BARRIER	FOOT	1915	1615	300
28000500	INLET AND PIPE PROTECTION	EACH	2	-	2
28100107	STONE RIPRAP, CLASS A4	SQ YD	730	200	530
28200200	FILTER FABRIC	SQ YD	730	200	530
31100300	SUB-BASE GRANULAR MATERIAL, TYPE A 4"	SQ YD	459	197	262
35101400	AGGREGATE BASE COURSE, TYPE B	TON	208	128	80
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	802	802	-
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	140	140	-
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	318	224	94
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	333	173	160
40600990	TEMPORARY RAMP	SQ YD	89	46	43
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	566	318	248
44000400	GUTTER REMOVAL	FOOT	1197	1197	-
44004250	PAVED SHOULDER REMOVAL	SQ YD	206	206	-
44201335	CLASS C PATCHES, TYPE IV, 8 INCH	SQ YD	234	-	234
44201396	CLASS C PATCHES, TYPE IV, 13 INCH	SQ YD	178	178	-
48101200	AGGREGATE SHOULDERS, TYPE B	TON	180	180	-
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	51	-	51
48203019	HOT-MIX ASPHALT SHOULDERS, 5 1/2"	SQ YD	1088	-	1088
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	704	704	-
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1	-	1
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1	1	-
50800105	REINFORCEMENT BARS	POUND	49990	-	49990
51500100	NAME PLATES	EACH	2	1	1
54001000	BOX CULVERT END SECTIONS	EACH	2	2	-
54003000	CONCRETE BOX CULVERTS	CU YD	254.9	-	254.9
54021209	PRECAST CONCRETE BOX CULVERT 12' X 9' (M273)	FOOT	120	120	-
54213459	END SECTIONS 24"	EACH	2	-	2
54213465	END SECTIONS 30"	EACH	2	-	2
54200229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	90	-	90
54200235	PIPE CULVERTS, CLASS D, TYPE 1 30"	FOOT	80	-	80

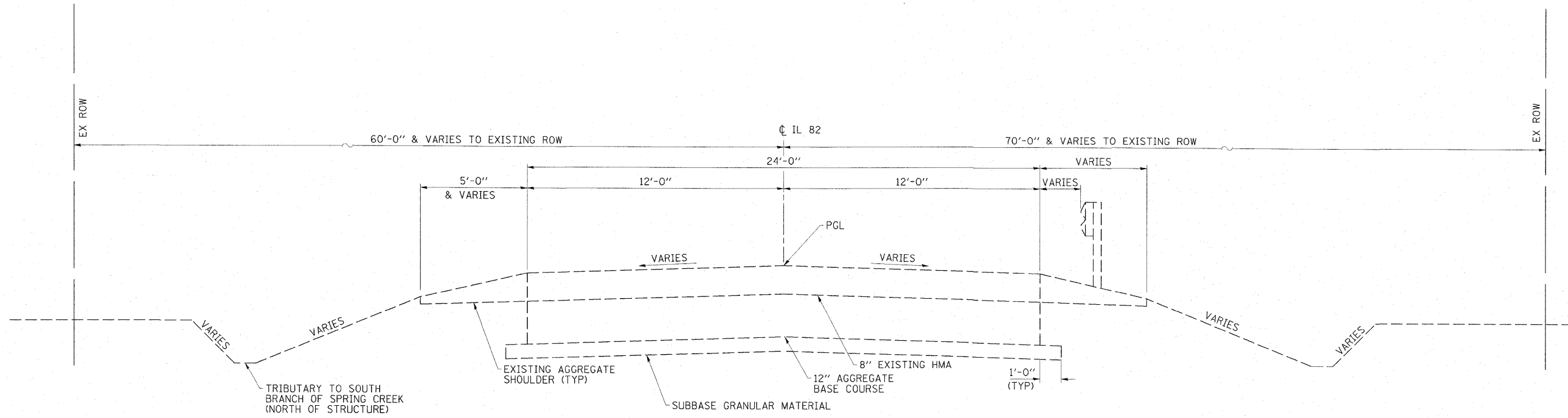
* SPECIALTY ITEM
: NON-PARTICIPATING

SUMMARY OF QUANTITIES

80% FEDERAL
20% STATE

CODE NO.	ITEM	UNIT	TOTAL	CONSTRUCTION TYPE CODE	
				X028-2A	X028-2A
				SN 037-0172	SN 037-0173
60406610	GRATING (SPECIAL)	EACH	4	4	-
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	45.6	45.6	-
60602600	CONCRETE GUTTER, TYPE A (MODIFIED)	FOOT	300	300	-
* 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POST	FOOT	575	-	575
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE J (SPECIAL) FLARED	EACH	4	-	4
63200310	GUARDRAIL REMOVAL	FOOT	1003	613	390
63500105	DELINEATORS	EACH	10	2	8
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	24	19	5
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	4	2	2
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	3	3
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	-
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.5	0.5
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1	-
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	2	2	-
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	-
70106700	TEMPORARY RUMBLE STRIP	EACH	6	6	-
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	656	420	236
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	4840	3070	1770
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1833	1164	669
70400100	TEMPORARY CONCRETE BARRIER	FOOT	625	625	-
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	387.5	387.5	-
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	9680	6140	3540
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	10	-	10
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	-	4
78300100	PAVEMENT MARKING REMOVAL	SQ FT	274	274	-
X0323988	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	430	430	-
X0325911	HOT-MIX ASPHALT SURFACE COURSE, SPECIAL	TON	225	-	225
X7013015	TRAFFIC CONTROL FOR ROAD CLOSURE	L SUM	1	-	1
Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	20	20	-
Z0005400	BREAKER-RUN CRUSHED STONE	TON	1310	360	950
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.5	0.5
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2	-
Z0030260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2	-
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2	-

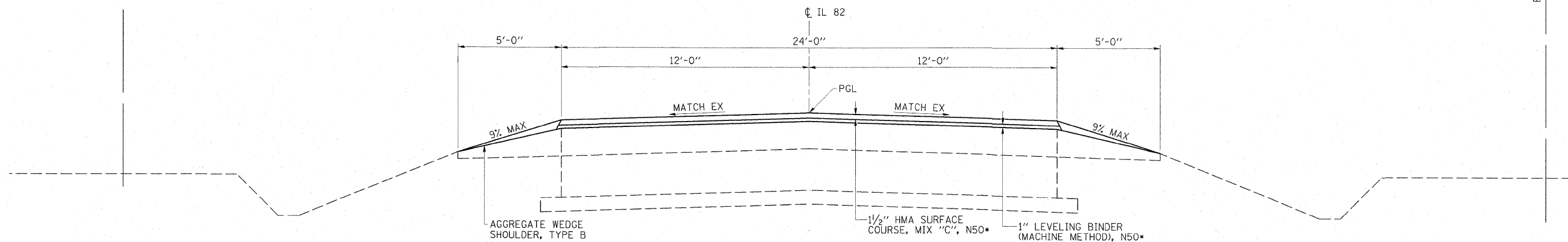
* SPECIALTY ITEM



EXISTING TYPICAL ROADWAY SECTION
STATION 633+00 TO STATION 641+00
(LOOKING NORTH)

**NO
GUARDRAIL**

**AT
GUARDRAIL**



PROPOSED TYPICAL ROADWAY SECTION
STATION 638+75 TO STATION 639+50
(LOOKING NORTH)

*RATE= 112 LB/SO YD/IN

FILE NAME = D264428-sht-typic0103.dgn	USER NAME = HAS	DESIGNED - JMS	REVISED -
		DRAWN - JPC	REVISED -
		CHECKED - ELH	REVISED -
		DATE - 3/13/09	REVISED -
	PLOT SCALE = 0.0833' / IN.		
	PLOT DATE = 3/23/2009 9:39:10 AM		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS	
SCALE:	SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE. 638	SECTION 137-1BR	COUNTY HENRY	TOTAL SHEETS 67	SHEET NO. 4
CONTRACT NO. 64428				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



EACH	LOCATION	REMARKS
1	LT Sta. 635+50	
1	LT Sta. 636+00	
1	LT Sta. 637+25	
1	LT Sta. 637+75	
1	LT Sta. 640+00	
5	TOTAL	

EACH	LOCATION	REMARKS
2	SN 037-0173	
2	TOTAL	

CAL MO	LOCATION	REMARKS
3	SN 037-0173	
3	TOTAL	

L SUM	LOCATION	REMARKS
0.5	SN 037-0173	
0.5	TOTAL	

L SUM	LOCATION	REMARKS
0.5	SN 037-0173	
0.5	TOTAL	

FOOT	LOCATION	REMARKS
156	Sta. 634+50 to 639+50	3 applications of yellow centerline striping
80	Sta. 634+50 to 639+50	2 applications of white edge line striping
236	TOTAL	

FOOT	LOCATION	REMARKS
570	LT Sta. 633+80 to 639+50	White edgeline striping
570	RT Sta. 633+80 to 639+50	White edgeline striping
130	Sta. 634+50 to 639+50	Yellow skip-dash centerline striping SB
500	Sta. 634+50 to 639+50	Yellow no pass centerline striping NB
1770	TOTAL	

SQ FT	LOCATION	REMARKS
263	Sta. 634+50 to 639+50	Centerline striping
203	LT Sta. 633+80 to 639+50	Edgeline striping
203	RT Sta. 633+80 to 639+50	Edgeline striping
669	TOTAL	

FOOT	LOCATION	REMARKS
1140	LT Sta. 633+80 to 639+50	White edgeline striping, 2 applications
1140	RT Sta. 633+80 to 639+50	White edgeline striping, 2 applications
260	Sta. 634+50 to 639+50	Yellow skip-dash centerline striping SB, 2 applications
1000	Sta. 634+50 to 639+50	Yellow no pass centerline striping NB, 2 applications
3540	TOTAL	

EACH	LOCATION	REMARKS
5	West side	
5	East side	
10	TOTAL	

EACH	LOCATION	REMARKS
1	RT Sta. 634+27	
1	LT Sta. 634+77.5	
1	RT Sta. 638+14.5	
1	LT Sta. 638+65	
4	TOTAL	

TON	LOCATION	REMARKS
950	SN 037-0173	57.5'x43'x54"
950	TOTAL	

L SUM	LOCATION	REMARKS
0.5	SN 037-0173	
0.5	TOTAL	

TON	LOCATION	REMARKS
225	SN 037-0173 Detour	Good Neighbor Policy
225	TOTAL	

L SUM	LOCATION	REMARKS
1	SN 037-0173	
1	TOTAL	

LOCATION	20200100			
	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE
	(CU YD)	(CU YD)	(CU YD)	WASTE (+) SHORTAGE (-)
RT STA. 636+80 TO 639+50	40	30	245	-215
RT STA. 633+81 TO 636+00	110	82.5	40	+42.5
LT STA. 636+80 TO 639+50	470	352.5	305	+47.5
LT STA. 634+45 TO 636+10	160	120	180	-60
EXCAVATION FOR PR CULVERT	750*	562	480	+82
TOTALS	1530	1147	1250	-103

EXCAVATION USED AS EMBANKMENT = EARTH EXCAVATION * 0.75
 * COST INCLUDED IN CONCRETE BOX CULVERTS



CHAIN IL82 DESCRIPTION

Chain IL82 contains:
310 CUR 200 210 CUR 220 230 CUR 240 250 CUR 260 CUR 270 280 CUR 290 10

Beginning chain IL82 description

Point 310 N 1,686,670.0404 E 2,296,953.0212 Sta 544+36.8000

Course from 310 to PC 200 0° 11' 52.9395" Dist 3,573.5528

Curve Data

Curve 200
P.I. Station 585+53.9859 N 1,690,787.2018 E 2,296,967.2519
Delta = 0° 21' 44.7179" (LT)
Degree = 0° 02' 00.0002"
Tangent = 543.6332
Length = 1,087.2628
Radius = 171,886.9999
External = 0.8597
Long Chord = 1,087.2609
Mid. Ord. = 0.8597
P.C. Station 580+10.3528 N 1,690,243.5718 E 2,296,965.3729
P.T. Station 590+97.6155 N 1,691,330.8327 E 2,296,965.6922
C.C. N 1,690,837.6858 E 2,125,079.3997
Back = 0° 11' 52.9395"
Ahead = 359° 50' 08.2217"
Chord Bear = 0° 01' 00.5806"

Course from PT 200 to 210 359° 50' 08.2217" Dist 2,097.1956

Point 210 N 1,693,428.0197 E 2,296,959.6753 Sta 611+94.8111

Course from 210 to PC 220 359° 43' 49.7963" Dist 4,047.8477

Curve Data

Curve 220
P.I. Station 656+39.6999 N 1,697,872.8594 E 2,296,938.7680
Delta = 0° 37' 51.6843" (RT)
Degree = 0° 04' 46.0796"
Tangent = 397.0411
Length = 794.0743
Radius = 72,100.4990
External = 1.0932
Long Chord = 794.0703
Mid. Ord. = 1.0932
P.C. Station 652+42.6588 N 1,697,475.8226 E 2,296,940.6356
P.T. Station 660+36.7331 N 1,698,269.8926 E 2,296,941.2733
C.C. N 1,697,814.9591 E 2,369,040.3370
Back = 359° 43' 49.7963"
Ahead = 0° 21' 41.4806"
Chord Bear = 0° 02' 45.6385"

Course from PT 220 to 230 0° 21' 41.4806" Dist 4,946.9845

Point 230 N 1,703,216.7786 E 2,296,972.4873 Sta 709+83.7176

Course from 230 to PC 240 0° 29' 46.3397" Dist 5,047.5240

Curve Data

Curve 240
P.I. Station 765+31.2415 N 1,708,764.0946 E 2,297,020.5306
Delta = 0° 17' 37.1732" (LT)
Degree = 0° 01' 45.7175"
Tangent = 500.0000
Length = 999.9978
Radius = 195,109.3373
External = 0.6407
Long Chord = 999.9967
Mid. Ord. = 0.6407
P.C. Station 760+31.2415 N 1,708,264.1133 E 2,297,016.2004
P.T. Station 770+31.2393 N 1,709,264.0914 E 2,297,022.2981
C.C. N 1,709,953.8209 E 2,101,914.1800
Back = 0° 29' 46.3397"
Ahead = 0° 12' 09.1666"
Chord Bear = 0° 20' 57.7531"

Course from PT 240 to 250 0° 12' 09.1666" Dist 9,713.4707

Point 250 N 1,718,977.5015 E 2,297,056.6362 Sta 867+44.7101

Course from 250 to PC 260 0° 20' 15.9982" Dist 5,457.6237

Curve Data

Curve 260
P.I. Station 924+00.3603 N 1,724,633.0535 E 2,297,089.9779
Delta = 11° 59' 46.4759" (RT)
Degree = 3° 02' 24.2203"
Tangent = 198.0266
Length = 394.6053
Radius = 1,884.6917
External = 10.3749
Long Chord = 393.8849
Mid. Ord. = 10.3181
P.C. Station 922+02.3337 N 1,724,435.0303 E 2,297,088.8104
P.T. Station 925+96.9391 N 1,724,826.5094 E 2,297,132.2784
C.C. N 1,724,423.9195 E 2,298,973.4693
Back = 0° 20' 15.9982"
Ahead = 12° 20' 02.4741"
Chord Bear = 6° 20' 09.2362"

Course from PT 260 to PC 270 12° 20' 02.4741" Dist 3,040.8219

HORIZONTAL AND VERTICAL CONTROL

Curve Data

Curve 270
P.I. Station 958+89.5426 N 1,728,043.1161 E 2,297,835.6131
Delta = 0° 37' 37.5029" (LT)
Degree = 0° 07' 28.3102"
Tangent = 251.7816
Length = 503.5582
Radius = 46,009.3944
External = 0.6889
Long Chord = 503.5557
Mid. Ord. = 0.6889
P.C. Station 956+37.7610 N 1,727,797.1459 E 2,297,781.8299
P.T. Station 961+41.3192 N 1,728,289.6602 E 2,297,886.7010
C.C. N 1,737,625.2352 E 2,252,834.3824
Back = 12° 20' 02.4741"
Ahead = 11° 42' 24.9713"
Chord Bear = 12° 01' 13.7227"

Course from PT 270 to 280 11° 42' 24.9713" Dist 1,877.4576

Point 280 N 1,730,128.0634 E 2,298,267.6482 Sta 980+18.7768

Course from 280 to PC 290 11° 44' 24.7293" Dist 3,762.5977

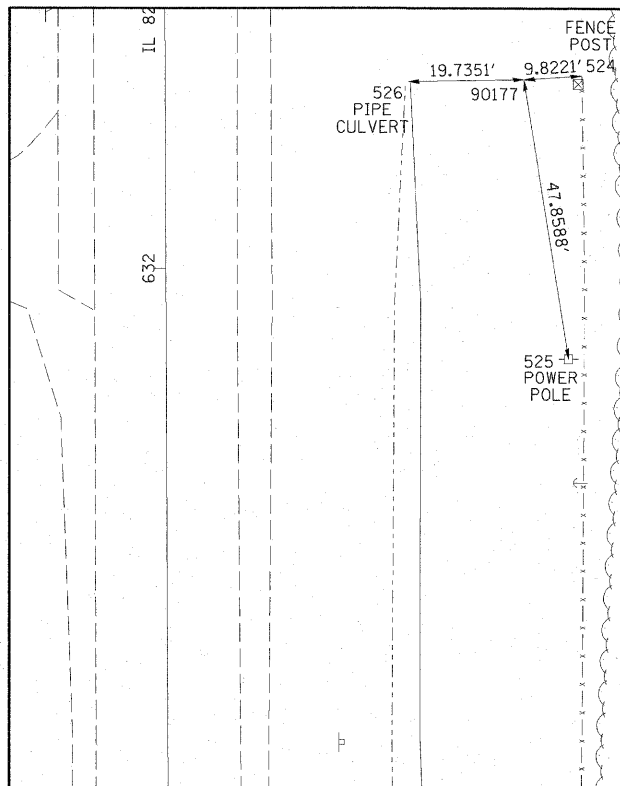
Curve Data

Curve 290
P.I. Station 1020+46.4385 N 1,734,071.4676 E 2,299,087.1740
Delta = 15° 39' 04.6343" (LT)
Degree = 2° 58' 15.0800"
Tangent = 265.0641
Length = 526.8276
Radius = 1,928.5953
External = 18.1299
Long Chord = 525.1911
Mid. Ord. = 17.9610
P.C. Station 1017+81.3744 N 1,733,811.9485 E 2,299,033.2402
P.T. Station 1023+08.2020 N 1,734,335.9144 E 2,299,069.0944
C.C. N 1,734,204.3682 E 2,297,144.9906
Back = 11° 44' 24.7293"
Ahead = 356° 05' 20.0949"
Chord Bear = 3° 54' 52.4121"

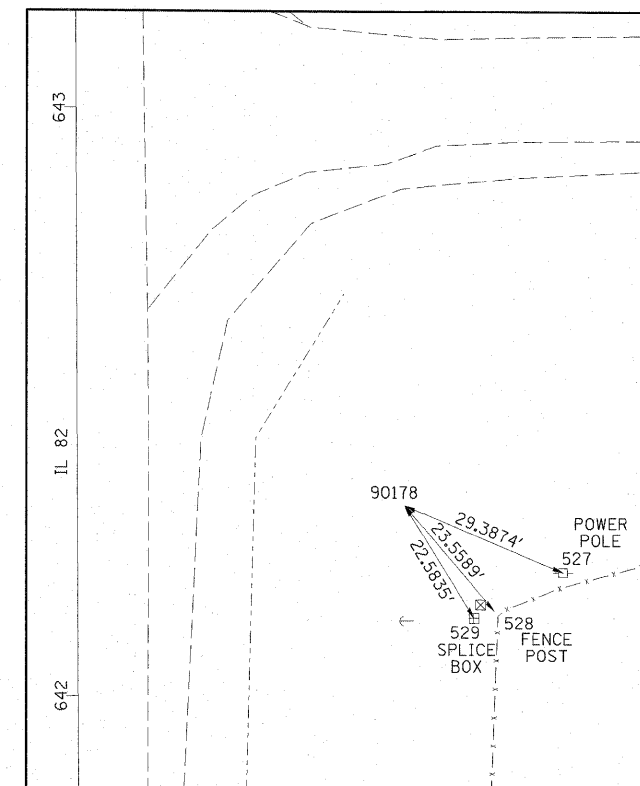
Course from PT 290 to 10 356° 05' 20.0949" Dist 1,628.2647

Point 10 N 1,735,960.3870 E 2,298,958.0332 Sta 1039+36.4667

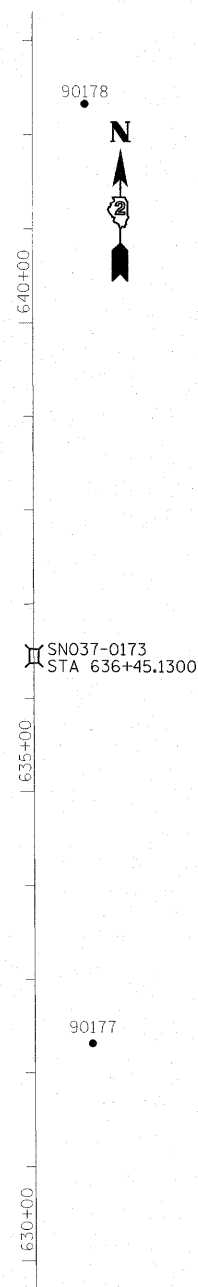
Ending chain IL82 description



HORIZONTAL CONTROL POINT NO. 90177



HORIZONTAL CONTROL POINT NO. 90178



SNO37-0173
STA 636+45.1300

HORIZONTAL CONTROL POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
90177	1695465.1700	2297011.3910	699.4420	IL82	632+31.6956	61.2972 RT	PIN
90178	1696465.8300	2297001.2240	716.7390	IL82	642+32.3924	55.8371 RT	PIN

BENCH MARKS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
477	1695464.4160	2297020.6370	701.2520	IL82	632+30.8981	70.5395 RT	RIGHT OF WAY MARKER
478	1696448.8960	2297014.2250	719.9430	IL82	642+15.3974	68.7583 RT	RIGHT OF WAY MARKER

REFERENCE TIES				
POINT	CHAIN	STATION	OFFSET	DESCRIPTION
524	IL82	632+32.2775	71.1020	FENCE POST
525	IL82	631+84.4181	68.7339	PP
526	IL82	632+31.4394	41.5638	PIPE CULVERT
527	IL82	642+20.7423	82.8166	PP
528	IL82	642+14.3688	71.0085	FENCE POST
529	IL82	642+13.1188	67.6075	TELEPHONE SPLICE BOX

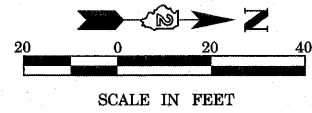
FILE NAME = 0264428-sh-l-a-lb-82.dgn	USER NAME = HRS	DESIGNED - JMS	REVISED -
PLOT SCALE = 0.00833' / IN.	CHECKED - ELH	DRAWN - RJT	REVISED -
PLOT DATE = 3/23/2009 12:56:24 PM	DATE = 03/13/2009		REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

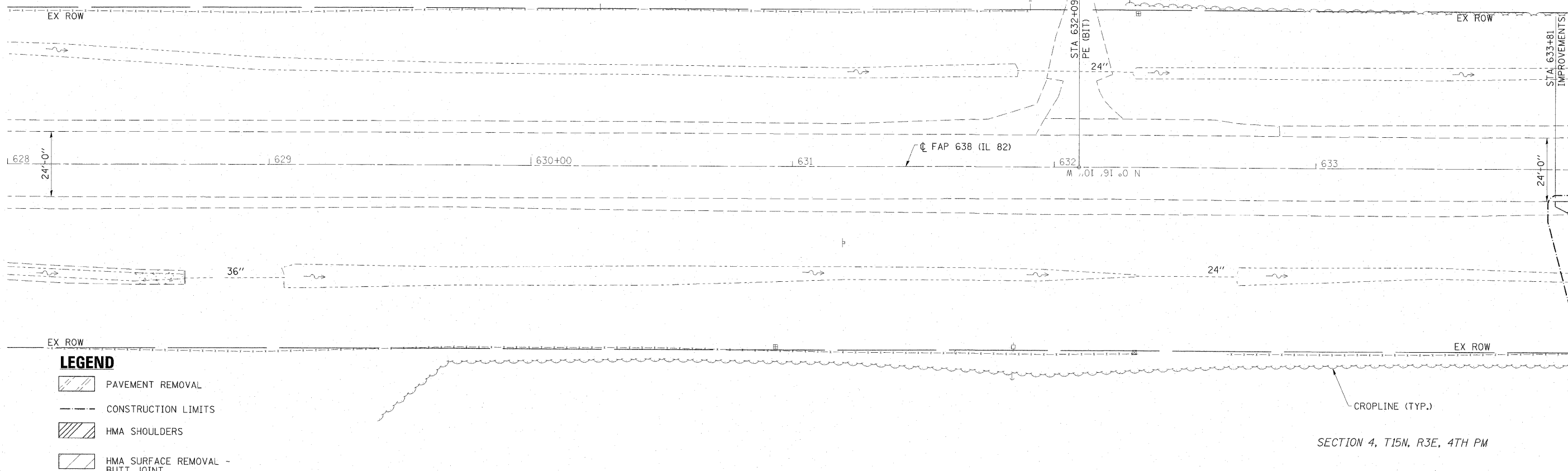
HORIZONTAL & VERTICAL CONTROL

SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 638	SECTION 137-1BR	COUNTY HENRY	TOTAL SHEETS 67	SHEET NO. 8
CONTRACT NO. 64428				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



SECTION 5, T15N, R3E, 4TH PM



STA. 633+81 IMPROVEMENTS BEGIN

MATCH LINE STA. 634 + 00
SEE SHT. 10 FOR CONT.

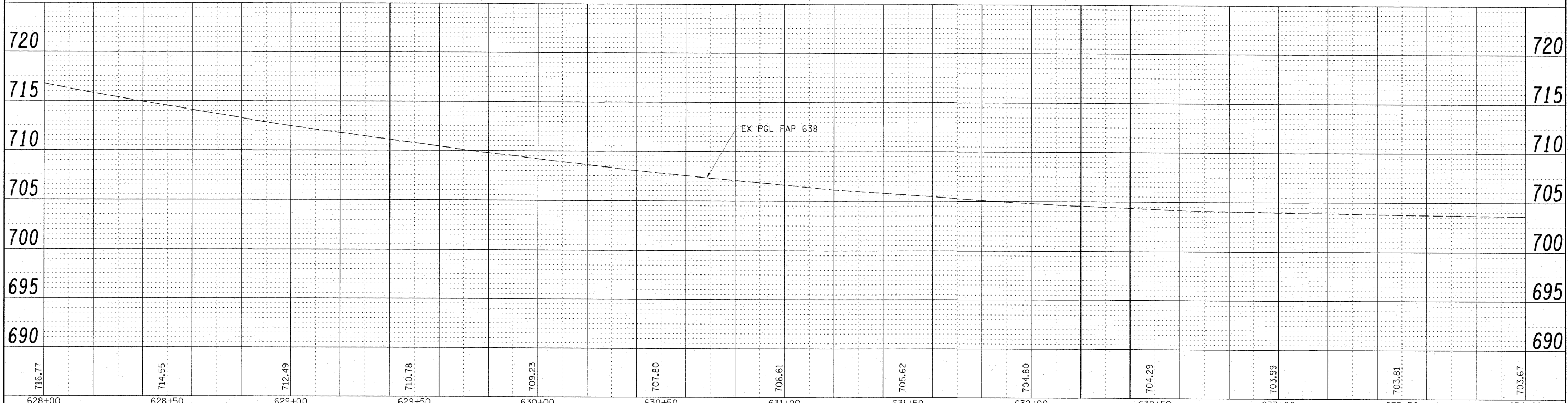
LEGEND

- PAVEMENT REMOVAL
- CONSTRUCTION LIMITS
- HMA SHOULDERS
- HMA SURFACE REMOVAL - BUTT JOINT

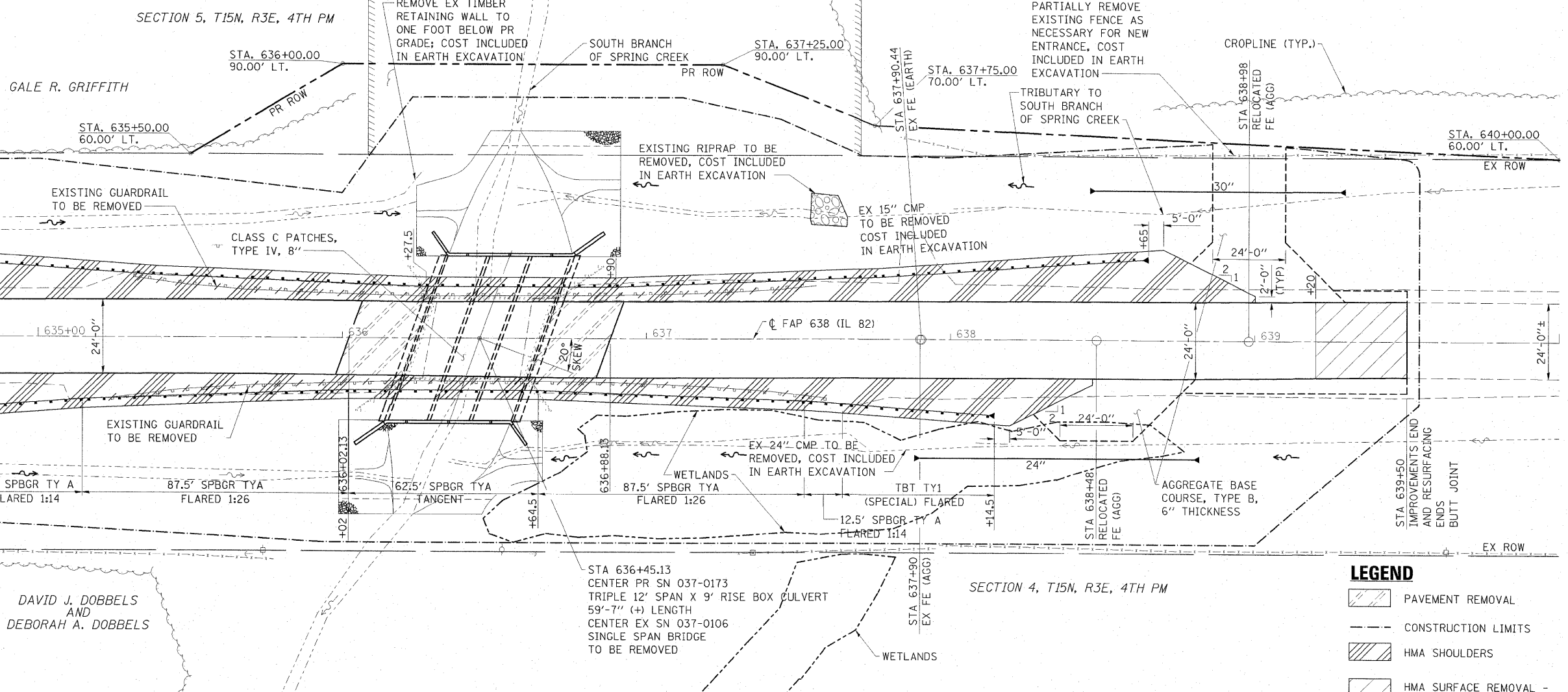
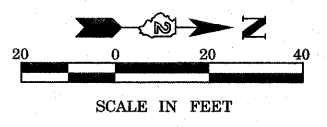
SECTION 4, T15N, R3E, 4TH PM

PLAN	REVISIONS	DATE
NOTE BOOK NO.	BY	
FILE NAME	CHECKED	
	DATE	

PROFILE	REVISIONS	DATE
NOTE BOOK NO.	BY	
FILE NAME	CHECKED	
	DATE	



FILE NAME = D264428-sht-plnprf02.dgn	USER NAME = HAS	DESIGNED - JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAP 638 (IL 82) PLAN AND PROFILE STA 628+00 TO STA 634+00	F.A.P. RTE. 638	SECTION 137-1BR	COUNTY HENRY	TOTAL SHEETS 67	SHEET NO. 9
SCALE: (HORIZ) 1"=20'-0" (VERT) 1"=5'	PLOT SCALE = 20.1465' / IN.	CHECKED - ELH	REVISED -			CONTRACT NO. 64428				
PLOT DATE = 3/23/2009 2:06:55 PM	DATE - 03/13/09	REVISED -	SCALE: 1"=20'-0"			SHEET NO. 1 OF 2 SHEETS	STA. 628+00 TO STA. 634+00			
						FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



**MATCH LINE STA. 634+00
SEE SHT. 9 FOR CONT.**

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

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

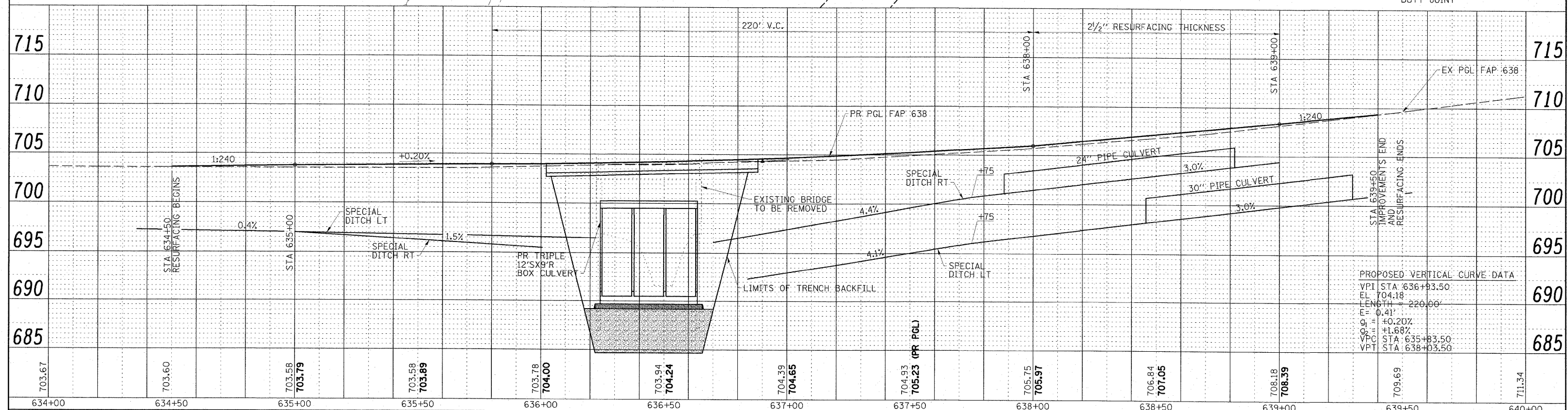
BENCHMARK
CHISELED SQUARE ON
NW CORNER OF BRIDGE OVER
SOUTH BRANCH OF SPRING CREEK,
SN 037-0106
STA 636+69.60, 14.12' LT
EL 701.96

DAVID J. DOBBELS
AND
DEBORAH A. DOBBELS

STA 636+45.13
CENTER PR SN 037-0173
TRIPLE 12' SPAN X 9' RISE BOX CULVERT
59'-7" (+) LENGTH
CENTER EX SN 037-0106
SINGLE SPAN BRIDGE
TO BE REMOVED

LEGEND

	PAVEMENT REMOVAL
	CONSTRUCTION LIMITS
	HMA SHOULDERS
	HMA SURFACE REMOVAL - BUTT JOINT



PROPOSED VERTICAL CURVE DATA

VPI	STA 636+93.50
EL	704.18
LENGTH	220.00'
E	-0.41%
G ₁	+0.20%
G ₂	+1.68%
VPC	STA 635+83.50
VPT	STA 638+03.50

FILE NAME: D264428-sht-plnprf02.dgn	USER NAME: HAS	DESIGNED: JMS	REVISED: -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION FAP 638 (IL 82) PLAN AND PROFILE STA 634+00 TO STA 640+00 SCALE: 1"=20'-0" SHEET NO. 2 OF 2 SHEETS STA. 634+00 TO STA. 640+00	F.A.P. RTE. 638	SECTION 137-1BR	COUNTY HENRY	TOTAL SHEETS 67	SHEET NO. 10	CONTRACT NO. 64428
SCALES: (HORIZI) 1"=20' (VERT) 1"=5'	PLOT SCALE = 28.1465' / IN.	DRAWN: JPC	REVISED: -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
	PLOT DATE = 3/23/2009 2:07:23 PM	CHECKED: ELH	REVISED: -							
	DATE = 03/13/09		REVISED: -							

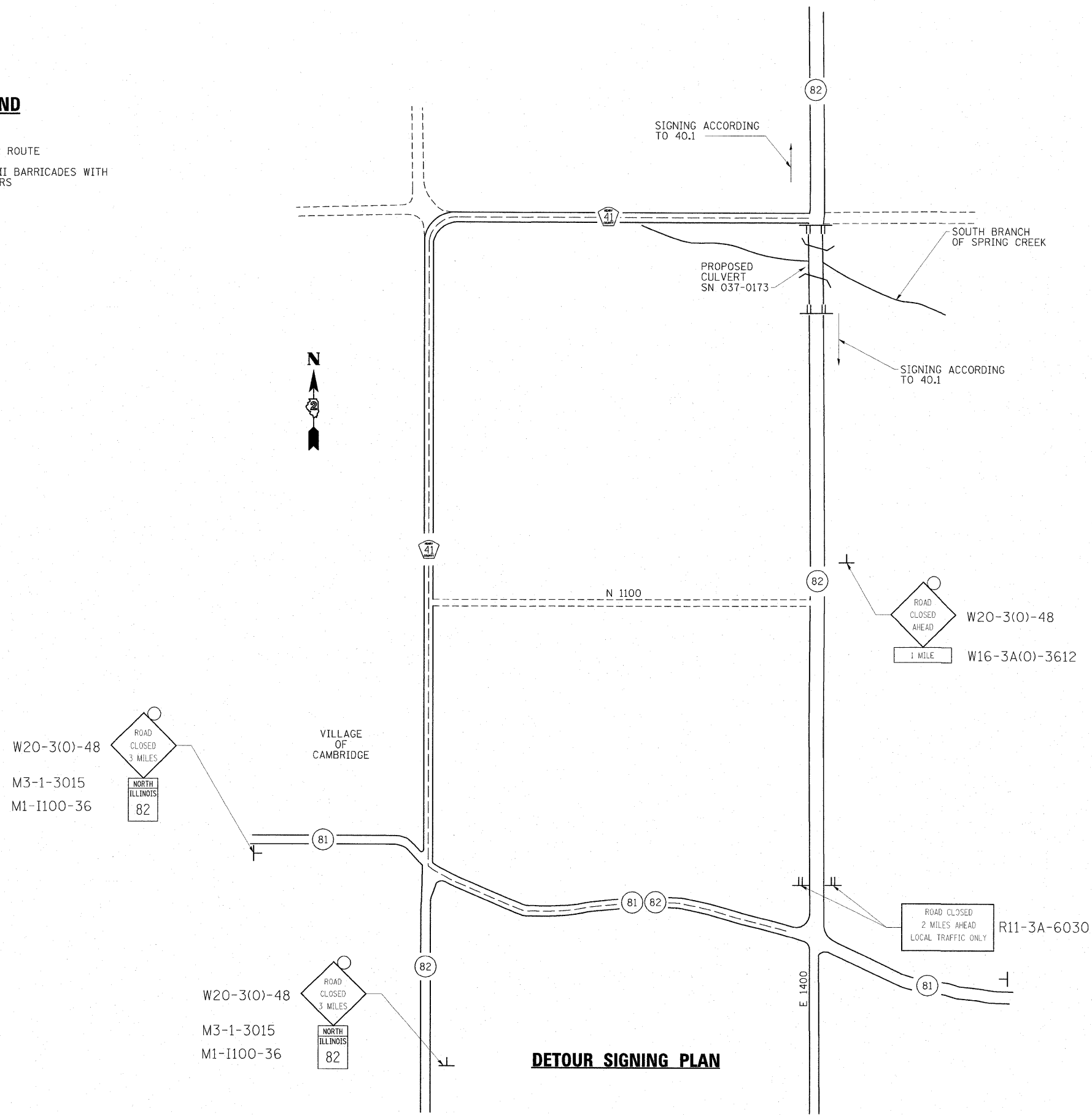


LEGEND

- T SIGN
- - - - - DETOUR ROUTE
- || TYPE III BARRICADES WITH FLASHERS

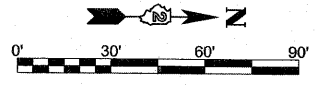
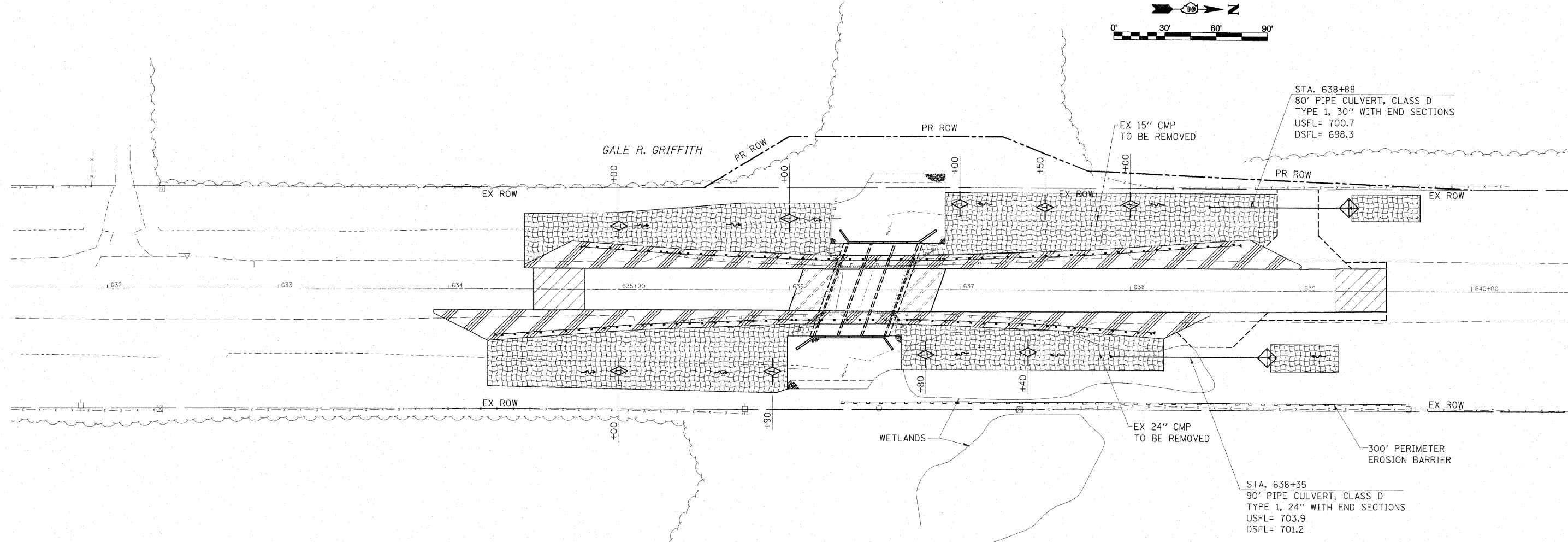
DETOUR NOTES

1. THE CONTRACTOR SHALL FURNISH THE POSTS AND ERECT THE SIGNS AT THE LOCATIONS DIRECTED BY THE ENGINEER. ALL SIGNS SHALL BE POST MOUNTED.
2. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER LUMP SUM FOR TRAFFIC CONTROL FOR ROAD CLOSURE.



DETOUR SIGNING PLAN

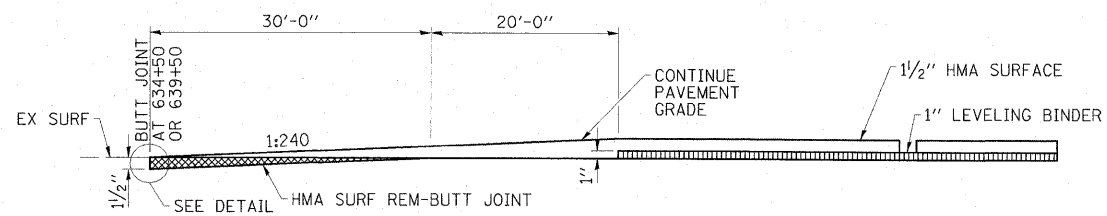
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	PLOT SCALE = 0.0839' / IN.	CHECKED - ELH	REVISED -			SCALE: 1/16"=1'-0"	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	CONTRACT NO. 64428	
PLOT DATE = 3/23/2009 12:59:59 PM	DATE = 3/13/09	REVISED -	REVISED -							



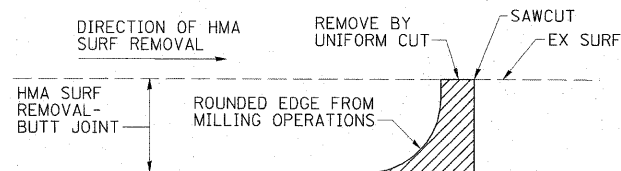
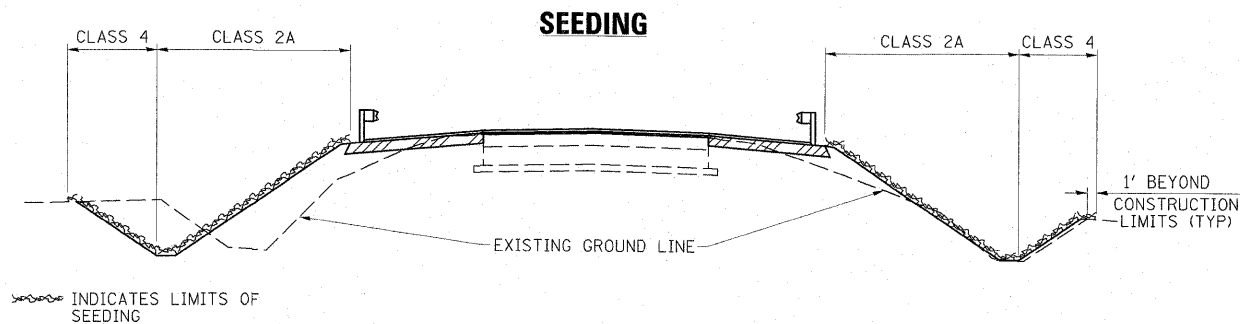
DAVID J. DOBBELS
AND
DEBORAH A. DOBBELS

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

FILE NAME = 0264428-sh1-er-cs02.dgn	USER NAME = HAS	DESIGNED - JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL AND DRAINAGE PLAN			F.A.P. RTE. 638	SECTION 137-1BR	COUNTY HENRY	TOTAL SHEETS 67	SHEET NO. 12
	PLOT SCALE = 0.0833' / IN.	DRAWN - JPC/CJ	REVISED -					SCALE: 1"=30'-0" SHEET NO. 1 OF 1 SHEETS STA. 632+00 TO STA. 640+00				CONTRACT NO. 64428
PLOT DATE = 3/23/2009 1:00:14 PM	CHECKED - ELH	REVISED -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
DATE - 03/13/09	DATE - 03/13/09	REVISED -	REVISED -									

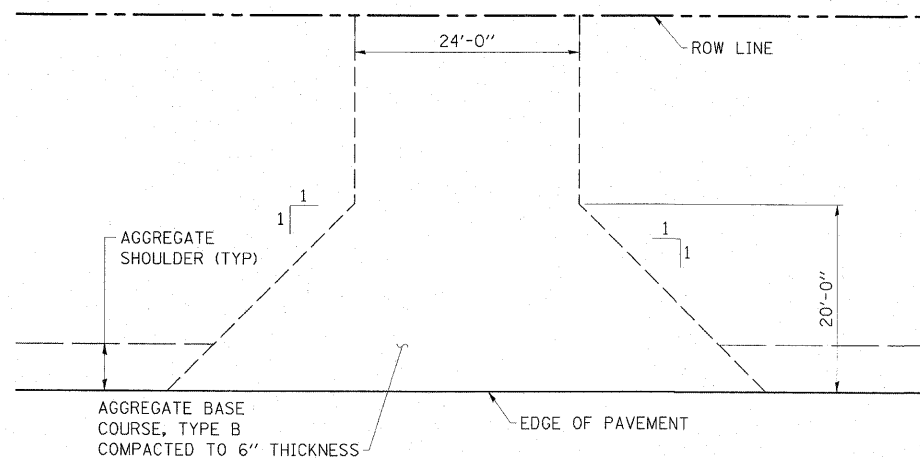


TYPICAL BUTT JOINT SECTION
SN 037-0173

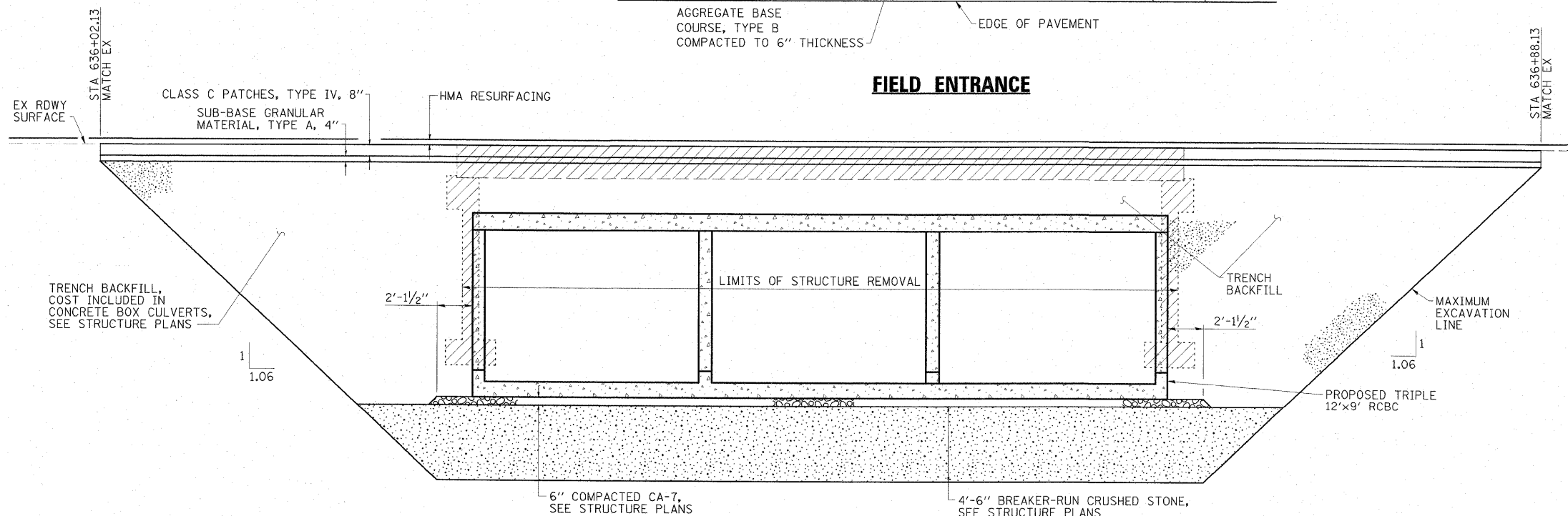


DETAIL AT BUTT JOINT

NOTE:
WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAWCUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE COST OF ALL WORK SHOWN IN THE DETAIL IS INCLUDED IN HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL.



FIELD ENTRANCE



SECTION THRU BOX CULVERT
(PARALLEL TO ROADWAY)

FILE NAME = 0264428-sht-details09.dgn	USER NAME = HAS	DESIGNED - JMS	REVISED -
		DRAWN - JPC	REVISED -
		CHECKED - ELH	REVISED -
		DATE - 3/13/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS

SCALE: VARIOUS SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	137-1BR	HENRY	67	13
CONTRACT NO. 64428				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

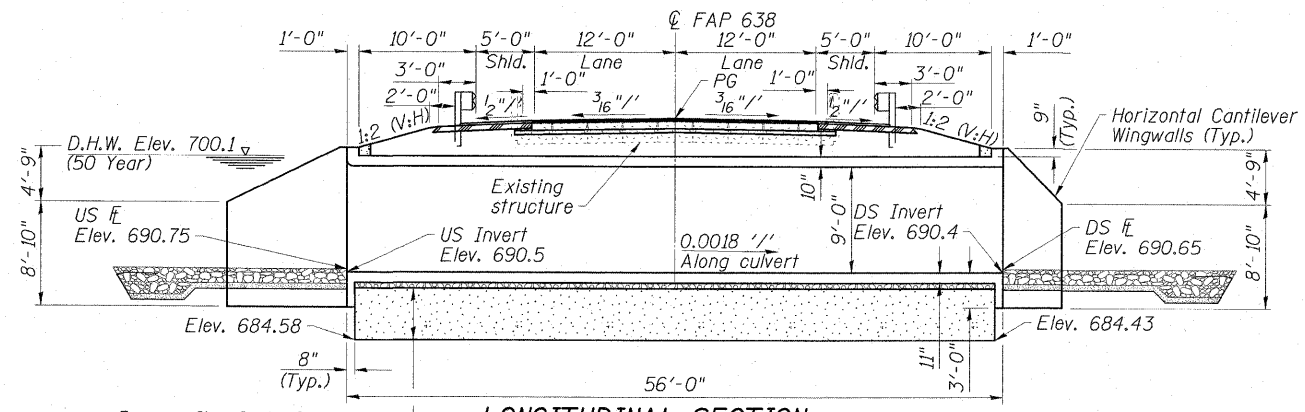
H&S 03/23/2009 3:23:20PM 354455 RH

BENCHMARK: Chiseled square on NW corner of bridge over South Branch of Spring Creek, SN 037-0106 Sta. 636+69.60, 14.12' Lt. Elev. 701.96

EXISTING STRUCTURE: SN 037-0106 was originally built in 1959 by Cambridge Township. The superstructure was replaced, and the substructure widened in 1961 as Section 137-1B. The structure consists of single span PPC deck beams on closed abutments founded on timber piles. One deck beam was replaced in November 1998 and two more were replaced in October of 2006. The bridge is 42'-9" back-to-back abutments and is 26'-0" wide face-to-face of curbs. The structure is skewed 20° left forward. Existing structure is to be removed and replaced during road closure while traffic utilizes a temporary detour route.

No salvage.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

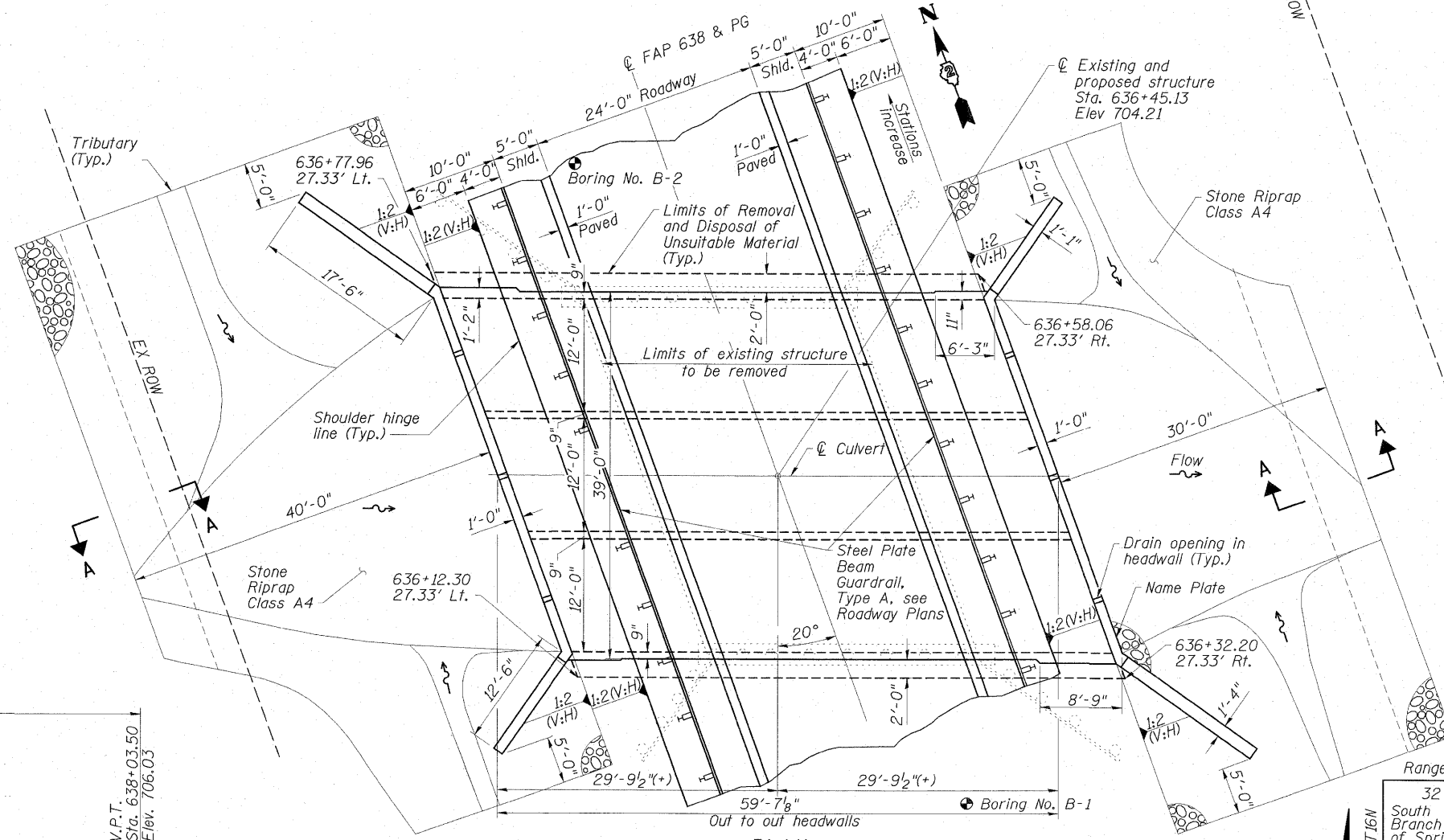


Remove five feet of unsuitable soil and replace with Breaker-Run Crushed Stone and CA-7

LONGITUDINAL SECTION
(Looking North)
(Horizontal dimensions at right angles to C FAP 638)

STRUCTURE INDEX OF SHEETS

General Plan	Sheet No. 1 of 5
General Data	Sheet No. 2 of 5
Box Culvert Details	Sheet No. 3 of 5
Box Culvert Details	Sheet No. 4 of 5
Soil Boring Logs	Sheet No. 5 of 5



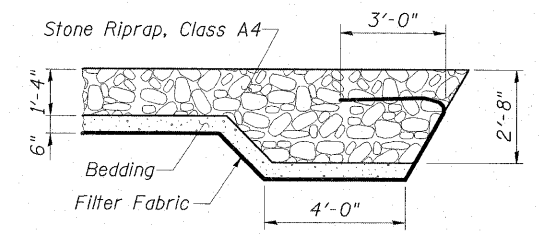
WATERWAY INFORMATION PLAN

Drainage Area = 3.62 Sq. Mi. Exist. Low Grade Elev. = 703.58 Ft. @ Sta. 635+00
Prop. Low Grade Elev. = 703.60 Ft. @ Sta. 634+50

Flood	Frequency Year	Discharge (cfs)	Waterway Opening (Sq. Ft.)		Nat. H.W.E.	Head (Ft.)		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	949	163	324	699.5	0.9	0.4	700.4	699.9
Base	50	1497	184	324	700.1	1.5	0.8	701.6	700.9
Overtopping	100	1733	195	324	700.4	2.6	0.9	703.0	701.3
Max Calc	280	2006	202	-	700.6	2.9	-	703.5	-
	500	2322	-	324	700.8	-	1.5	-	702.3

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.)



SECTION A-A

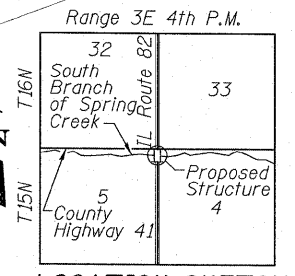
APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES



EXPIRES 11-30-09
Richard J. Pappas
SIGNATURE
11-11-08
DATE

GENERAL PLAN
IL 82 OVER
SOUTH BRANCH OF SPRING CREEK
FAP ROUTE 638 - SECTION 137-1BR
HENRY COUNTY
STATION 636+45.13
STRUCTURE NO. 037-0173

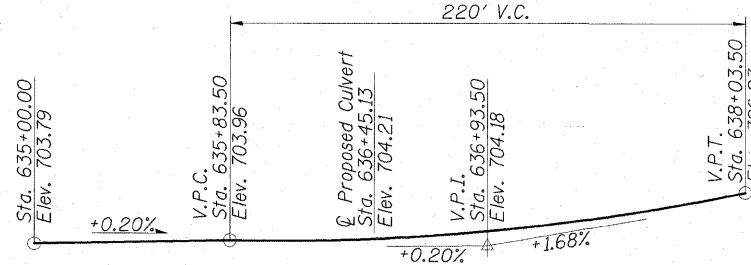


LOCATION SKETCH

ESCA
CONSULTANTS, INC.

DESIGNED BY:	JMS	11/08
DRAWN BY:	DWH/cj	11/08
CHECKED BY:	RDP	03/09
APPROVED BY:	RDP	03/09

PROFILE GRADE
(Along C Roadway)



SCOUR INFORMATION

Design Scour	US	DS
Elevation (Ft.)	687.5	687.4

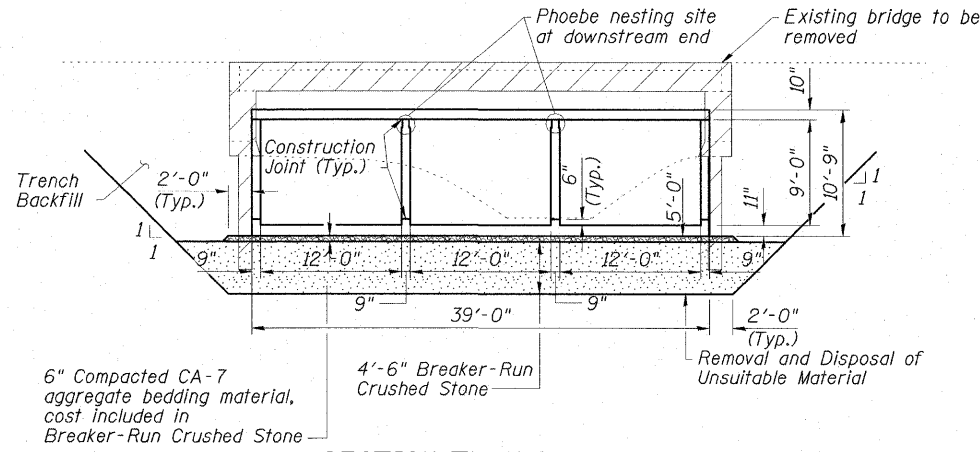
SHEET NO. 1	F.A.P. RTE. 638	SECTION 137-1BR	COUNTY HENRY	TOTAL SHEETS 67	SHEET NO. 14
5 SHEETS	CONTRACT NO. 64428		ILLINOIS FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Breaker-Run Crushed Stone	Ton	950
Removal and Disposal of Unsuitable Material	Cu. Yd.	520
Stone Riprap, Class A4	Sq. Yd.	530
Filter Fabric	Sq. Yd.	530
Removal of Existing Structures No. 1	Each	1
Concrete Box Culverts	Cu. Yds.	254.9
Reinforcement Bars	Pounds	49,990
Name Plates	Each	1

See Roadway Plans for quantities of Earth Excavation and Steel Plate Beam Guardrail, Type A.



SECTION THRU BARREL
Dimensions shown at right angles to culvert

STATION 636+45.13
BUILT 200_ BY
STATE OF ILLINOIS
FAP RT. 638 SEC. (137-1BR)
LOADING HS20-44
STR. NO. 037-0173

NAME PLATE
See Std. 515001

GENERAL NOTES

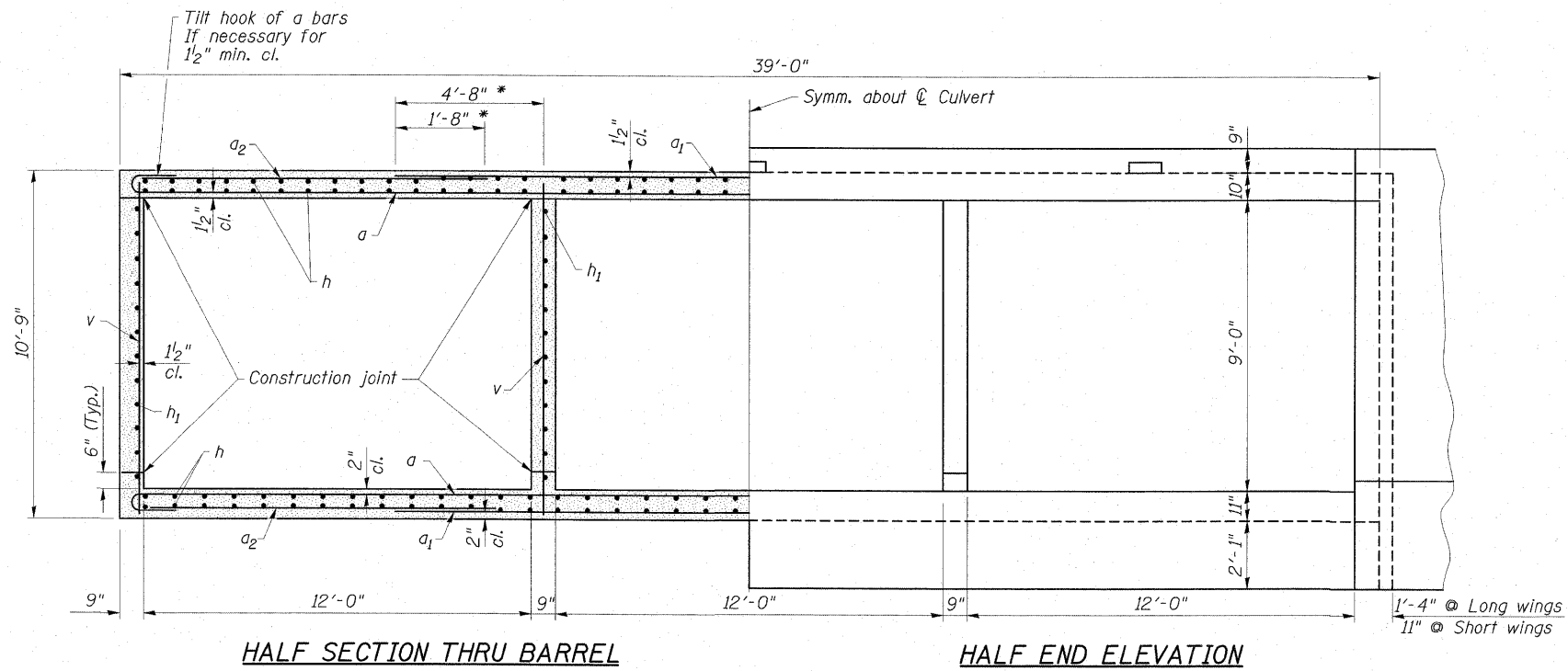
- Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
- Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- The Contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal of the superstructure.
- If the Contractor's procedure for existing deck beam removal involves placement of cranes or other heavy equipment on the existing deck beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, prepared and sealed by an Illinois Licensed Structural Engineer, verifying the structural adequacy of the beams for the proposed loads. Costs included in Removal of Existing Structures.
- The limits and quantities of Removal and Disposal of Unsuitable Material shown are based on the boring data and may be modified by the District Geotechnical and Field Engineers for variable subsurface conditions encountered in the field. Replace with Breaker-Run Crushed Stone. The Breaker-Run Crushed Stone shall be capped with 6 in. of CA-7 and satisfy the Standard Specifications unless otherwise indicated in the Special Provisions. The cost of the capping material shall be included in the pay item for Breaker-Run Crushed Stone.
- At least 8'-9" of the barrel shall be poured monolithically with wingwalls.
- Precast alternate is not allowed.
- Culvert flows must be maintained throughout the project. Normal flow shall be allowed to pass at the rate it enters the jobsite. High flows shall be allowed to pass without causing damage to upstream properties.
- Placement and compaction of the backfill for proposed across road culverts and existing across road culverts that are removed shall conform to section 502.10 of the Standard Specifications, except that the material shall conform to article 208.02 of the standard specifications, and shall be compacted to a minimum of 95% of the standard laboratory density. Any material conforming to the requirements of Article 1003.04 or 1004.05 which has been excavated from the trenches shall be used for backfilling the trenches. The excavation shall be backfilled with trench backfill material to the bottom of the proposed subgrade and as shown in the Roadway Plans. This trench backfill material will not be measured for payment, but shall be included in the contract unit price for Concrete Box Culverts.
- The boring logs for this structure indicate that the groundwater levels may encroach on the construction limits of this culvert. It shall be the responsibility of the Contractor to control the ground water and divert the stream flow during construction in order to keep the construction free of water. The method of controlling the water shall be subject to approval of the Engineer and the cost shall be included in the contract unit price for Concrete Box Culverts.

GENERAL DATA
STRUCTURE NO. 037-0173

ESCA
CONSULTANTS, INC.
DESIGNED BY: JMS 11/08
DRAWN BY: DWH/cj 11/08
CHECKED BY: RDP 02/09
APPROVED BY: RDP 02/09

SHEET NO. 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	638	137-1BR	HENRY	67	15
5 SHEETS	CONTRACT NO. 64428				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



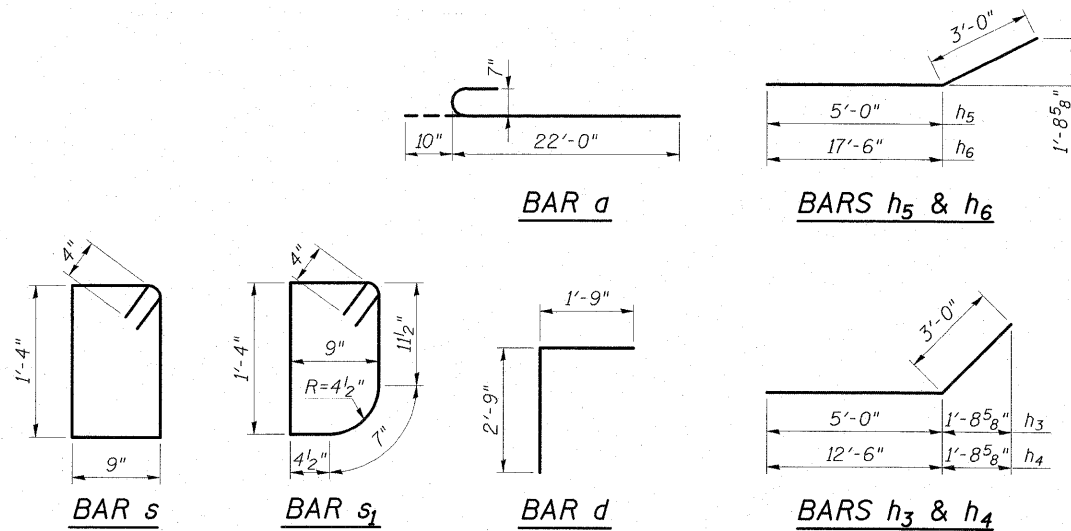
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	352	#7	22'-10"	
a1	200	#7	23'-1"	
a2	168	#5	10'-9"	
d	76	#4	4'-6"	
h	272	#5	30'-6"	
h1	104	#5	30'-7"	
h2	36	#6	21'-8"	
h3	52	#7	8'-0"	
h4	36	#7	15'-6"	
h5	38	#9	8'-0"	
h6	26	#9	20'-6"	
s	41	#4	4'-10"	
s1	41	#4	4'-8"	
v	328	#5	10'-5"	
v1	16	#5	12'-7"	
Concrete Box Culverts	Cu. Yd.	254.9		
Reinforcement Bars	Pound	49,990		

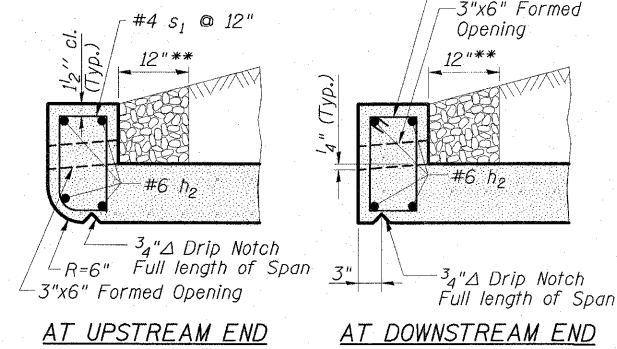
MIN. BAR LAP

- #5 _____ 1'-8"
- #6 _____ 2'-0"
- #7 _____ 2'-9"

* Dimensions noted thus are parallel to C Roadway

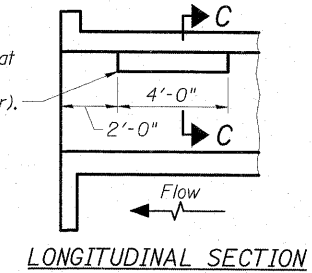


** Coarse aggregate full length of both headwalls. To be placed by Grading Contractor. Cost included with Concrete Box Culverts.

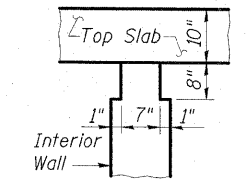


DRAIN DETAILS

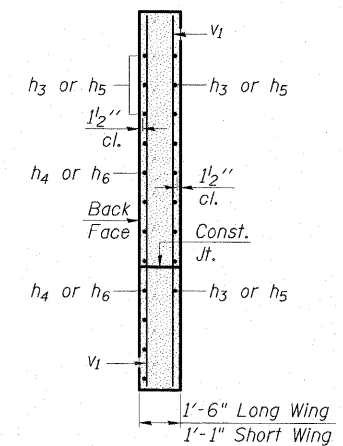
Notch formed by rough-finished board attached to and removed with formwork at interior wall. (Do not chamfer).



LONGITUDINAL SECTION



**SECTION C-C
(Downstream End Only)
PHOEBE NESTING
SITE DETAILS**



SECTION B-B

ESCA
CONSULTANTS, INC.

DESIGNED BY:	JMS	11/08
DRAWN BY:	DWH/cj	11/08
CHECKED BY:	RDP	02/09
APPROVED BY:	RDP	02/09

**BOX CULVERT DETAILS
STRUCTURE NO. 037-0173**

SHEET NO. 4 5 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	638	137-1BR	HENRY	67	17
			CONTRACT NO. 64428		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS DEPARTMENT OF TRANSPORTATION
District Two Materials
Cambridge Twp. NW 1/4 Sec. 4, NE 1/4 Sec. 5 - T15N, R3E
Crown Elev. @ Center of Bridge - 100.0
PROJECT BRIDGE 11.82 over Branch Date 08/02/93 Sh. 1 of 2
ROUTE FA 638 Spring Creek Bored By C. Jenkins
SEC. 136.137-11BR-2 STA. 434+00.5 Checked By T. Drath

COUNTY Henry
Boring No. B-1
Sta. 434+28
O/S 7' Lt. C.L.

Ground Surface	Elev.	Kt.	N	Qu	W	t/af	%	At	Hrs	Kt.	N	Qu	W	t/af	%	Surf Wet Kl.	Gravel	at Compl.	
																692.4	676.1		
Asphalt																			
STIFF, brown SILTY CLAY.	0			1.5	P	19		Same as above.				1	0.4						
												4	B	25					
STIFF, black SILTY CLAY.	9			1.6				Same as above				3	0.4						
	18			B		25						5	B	21					
	22																		
Same as above.	-5			1.7				MEDIUM, gray SILTY LOAM.				5	0.5						
	12			B		23						5	B	23					
	14																		
Same as above.	-5			1.2				LOOSE, dirty COARSE SAND.				1							
	5			B		24						1							
	7																		
VERY SOFT, gray black SILTY LOAM.	-10			0.1				MEDIUM, gray SILTY LOAM.				3	0.4						
	2			B		42						3	B	21					
	2																		
First Encounter V SOFT, gray black SILTY CLAY.	2			0.4				DENSE, gray black SHALE.				7							
	3			B		27													
	4																		
MEDIUM, gray SILTY CLAY.	-15			0.7				MEDIUM, gray/black SHALE.				22							
	1			B		32						14							
	2											15							
MEDIUM, gray SILTY CLAY.	-15			0.7				DENSE, gray/black SHALE w/ CLAY and COAL lense.				4							
	1			B		34						4							
	2											24							
	3																		
MEDIUM, Same as above.	-20			0.5				VERY DENSE, black SHALE.				23							
	1			B		29						29							
	2											43							
	4																		

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
District Two Materials
Cambridge Twp. NW 1/4 Sec. 4, NE 1/4 Sec. 5 - T15N, R3E
Crown Elev. @ Center of Bridge - 100.0
PROJECT BRIDGE 11.82 over Branch Date 08/18/93 Sh. 1 of 2
ROUTE FA 638 Spring Creek Bored By C. Jenkins
SEC. 136.137-11BR-2 STA. 434+28.5 Checked By T. Drath

COUNTY Henry
Boring No. B-2
Sta. 434+58
O/S 8' Lt. C.L.

Ground Surface	Elev.	Kt.	N	Qu	W	t/af	%	At	Hrs	Kt.	N	Qu	W	t/af	%	Surf Wet Kl.	Gravel	at Compl.	
																692.4	676.1		
Asphalt																			
STIFF, black SILTY CLAY.	0			1.1	P	23		SOFT, gray SILTY CLAY.				2	0.3						
												3	B	27					
MEDIUM, black SILTY LOAM.	8			0.5				SOFT, gray SILTY CLAY.				1	0.3						
	8			B		31						3	B	19					
	8																		
STIFF, black SILTY CLAY.	-5			1.2				First Encounter V MEDIUM, gray fine to medium SAND.				7							
	2			B		31						5							
	4											5							
	6																		
STIFF, gray SILTY CLAY.	-5			1.2				Begin Wash STIFF, gray CLAY with SAND lense.				5	1.7						
	3			B		24						3	B	23					
	4											5							
	5																		
SOFT, gray SILTY LOAM.	-10			0.5				STIFF, gray SANDY SILT w/ GRAVEL.				7	1.0						
	2			B		27						8	B	19					
	3											10							
SOFT, gray SILTY LOAM.	-10			0.4				MEDIUM, black SHALE.				9							
	2			B		35						12							
	2											12							
	4																		
STIFF, gray SILTY CLAY.	-15			1.2				VERY DENSE, black SHALE.				11							
	3			B		38						13							
	4											15							
SOFT, gray SILTY CLAY.	-15			0.3				DENSE, black SHALE.				17							
	2			B		37						17							
	2											20							
	4											24							
SOFT, gray SILTY CLAY w/SAND lense.	-20			0.3				VERY DENSE, black SHALE.				100	5"	PEN					
	2			B		36													
	3																		
	5																		

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

Project
Route FA 638
Sec. 136.137-11BR-2
County Henry
Sh. 2 of 2

Boring No. B-1
Sta. 434+28
O/S 7' Lt. C.L.

Ground Surface	Elev.	Kt.	N	Qu	W	t/af	%	At	Hrs	Kt.	N	Qu	W	t/af	%	Surf Wet Kl.	Gravel	at Compl.	
																692.4	676.1		
VERY DENSE, black SHALE.	-45			100	5"	PEN													
Same as above	-45																		
END OF BORING	-50																		
	-50																		
	-55																		
	-55																		
	-60																		
	-60																		
	-65																		
	-65																		
	-70																		

Project
Route FA 638
Sec. 136.137-11BR-2
County Henry
Sh. 2 of 2

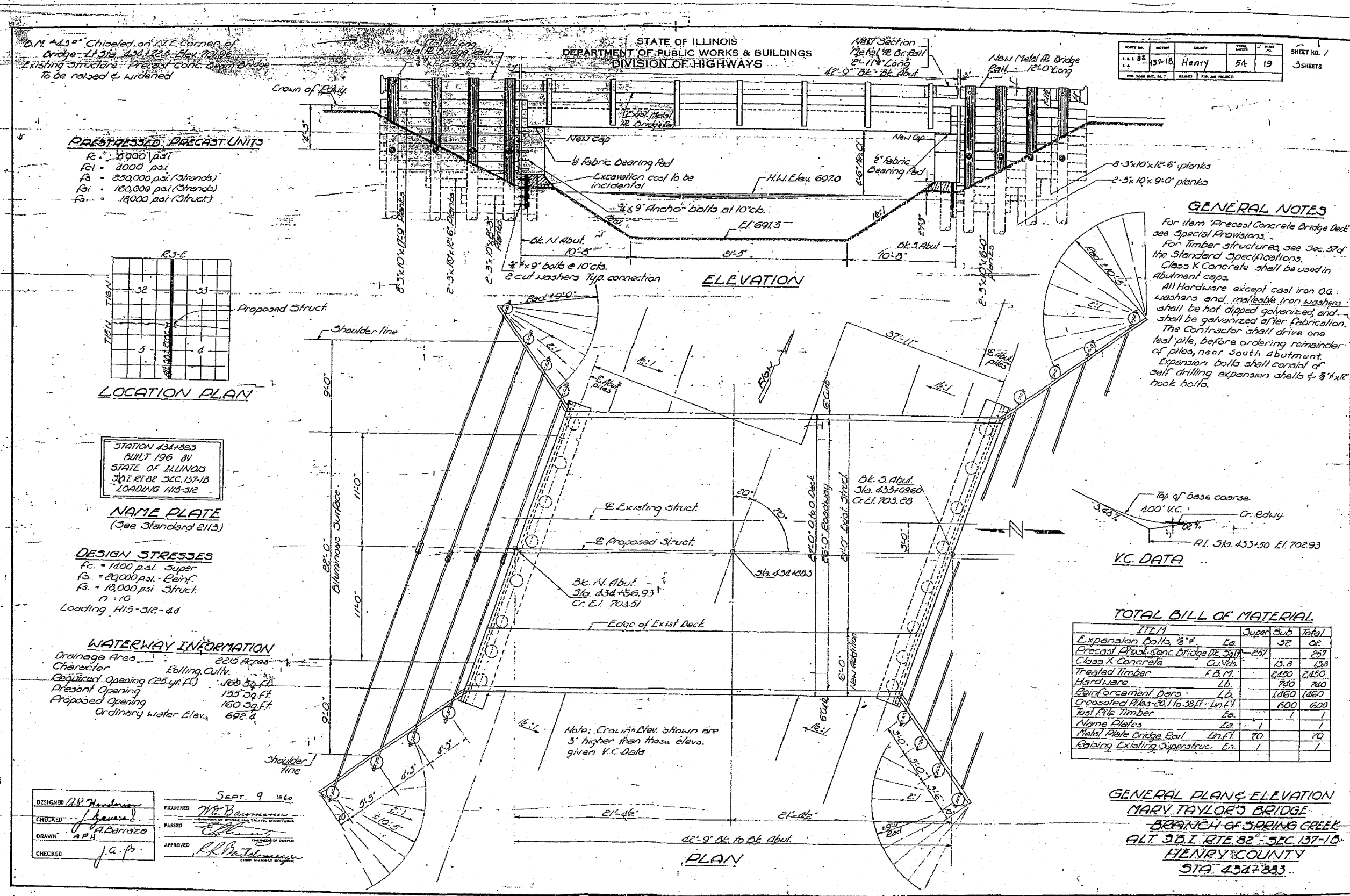
Boring No. B-2
Sta. 434+58
O/S 8' Lt. C.L.

Ground Surface	Elev.	Kt.	N	Qu	W	t/af	%	At	Hrs	Kt.	N	Qu	W	t/af	%	Surf Wet Kl.	Gravel	at Compl.	
																692.4	676.1		
VERY DENSE, black SHALE.	-45			100	5"	PEN													
END OF BORING ADDER REFUSAL	-45																		
	-50																		
	-50																		
	-55																		
	-55																		
	-60																		
	-60																		
	-65																		
	-65																		
	-70																		

ESCA
CONSULTANTS, INC.
DESIGNED BY: JMS 11/08
DRAWN BY: DWH/CJG 11/08
CHECKED BY: RDP 11/08
APPROVED BY: RDP 11/08

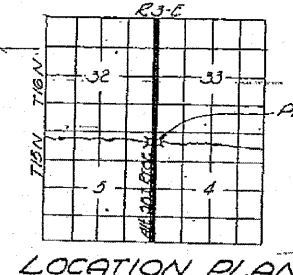
SOIL BORING LOGS
STRUCTURE NO. 037-0173

SHEET NO. 5 5 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	638	137-1BR	HENRY	67	18
CONTRACT NO. 64428					
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
137-1B	Henry	54	19	3 SHEETS

PRESTRESSED PRECAST UNITS
 Fc = 5000 psi
 Ft = 2000 psi
 Fb = 250,000 psi (Strands)
 Fst = 160,000 psi (Struct)
 Fc = 14000 psi (Struct)



STATION 434+833
 BUILT 196 BY
 STATE OF ILLINOIS
 301 RT 82 SEC. 137-1B
 LOADING H15-312

NAME PLATE
 (See Standard 2113)

DESIGN STRESSES
 Fc = 1400 psi Super
 Fb = 200,000 psi Reinfr.
 Fst = 140,000 psi Struct.
 n = 10
 Loading H15-312-44

WATERWAY INFORMATION
 Drainage Area 2215 Acres
 Character Rolling Cultiv.
 Required Opening (25 yr. fl.) 160 Sq. Ft.
 Present Opening 155 Sq. Ft.
 Proposed Opening 160 Sq. Ft.
 Ordinary water Elev. 692.4

DESIGNER: A.B. Henderson
 CHECKED: J. Howard
 DRAWN: A.P.H.
 CHECKED: J.C.P.

EXAMINED: W.C. Baumann
 PASSED: [Signature]
 APPROVED: [Signature]

GENERAL NOTES
 For item "Precast Concrete Bridge Deck" see Special Provisions.
 For timber structures see Sec. 57 of the Standard Specifications.
 Class K Concrete shall be used in Abutment caps.
 All Hardware except cast iron O.G. Washers and malleable iron washers shall be hot dipped galvanized and shall be galvanized after fabrication.
 The Contractor shall drive one test pile, before ordering remainder of piles, near South Abutment.
 Expansion bolts shall consist of self drilling expansion shells & 3/4" x 12" hook bolts.

V.C. DATA

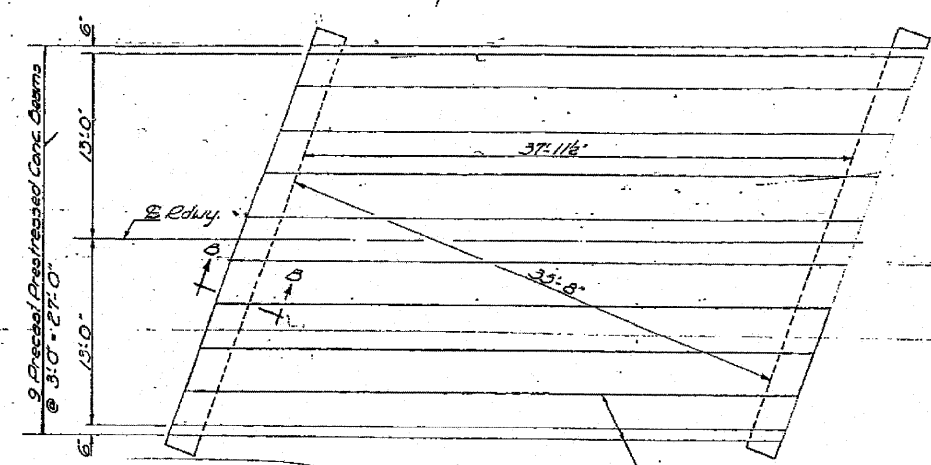
Top of base course	400' V.C.	Cr. Rdwy
		PI. Sta. 433+150 El. 702.93

TOTAL BILL OF MATERIAL

ITEM	Super	Sub	Total
Expansion Bolts 3/4"	52	02	54
Precast Precast Conc Bridge DE 3918	257		257
Class X Concrete C.V. 4/8	13.8	13.8	27.6
Treated Timber F.B.M.	2450	2450	4900
Hardware Lb.	740	740	1480
Reinforcement Bars Lb.	1860	1860	3720
Crested Piles 20" to 38" Lin.Ft.	600	600	1200
Test Pile Timber Ea.	1	1	2
Name Plates Ea.	1	1	2
Metal Plate Bridge Rail Lin.Ft.	70	70	140
Reinfr Existing Superstruc. Ea.	1	1	2

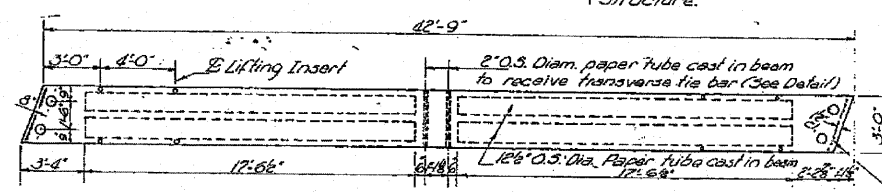
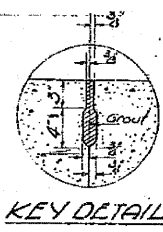
GENERAL PLANS-ELEVATION
 MARY TAYLOR'S BRIDGE
 BRANCH OF SPRING CREEK
 ALT. 301 RT. 82 SEC. 137-1B
 HENRY COUNTY
 STA. 434+833

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
137-1B	Henry	54	20	3
SHEET NO. 3 SHEETS				

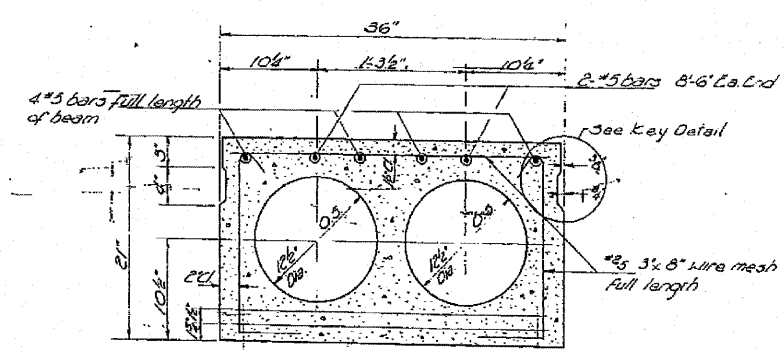


Note: Remove existing West beam with curb & handrail & re-use as outside beam.

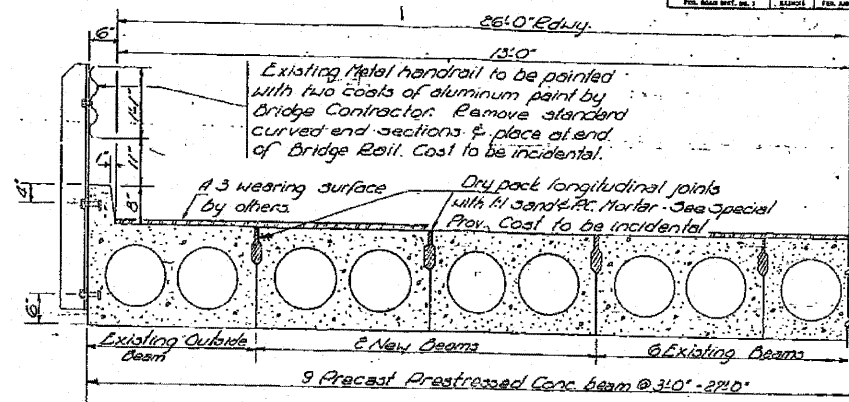
New position of exist. west curb beam. Cost of moving & resetting shall be included in unit price bid for raising existing superstructure.



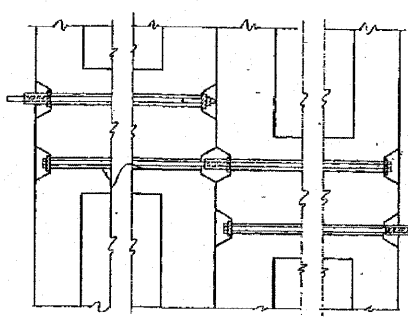
*2# 3"x8" wire mesh full depth of beam each end. *2 wires to be vertical



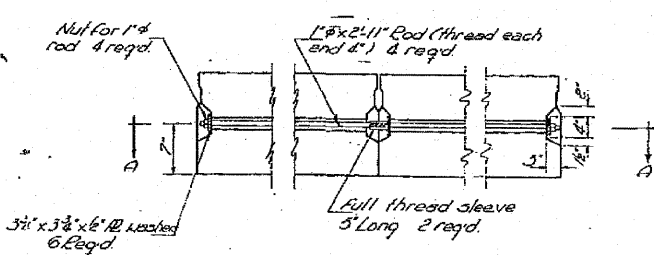
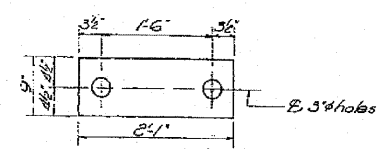
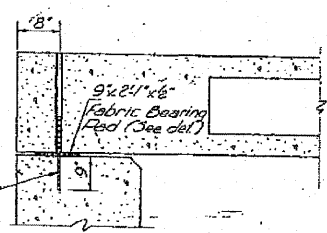
Note: Place strand symmetrically about E beam



Symm about E Edwy.



*4" x 1-1/2" dowel bars after beams are in place the contractor shall drill holes into bridge seat & grout dowels into beam & cap. Cost to be incidental



The cost of furnishing & assembling transverse ties to be included in the unit price bid for Precast Prestressed Conc. Bridge Deck

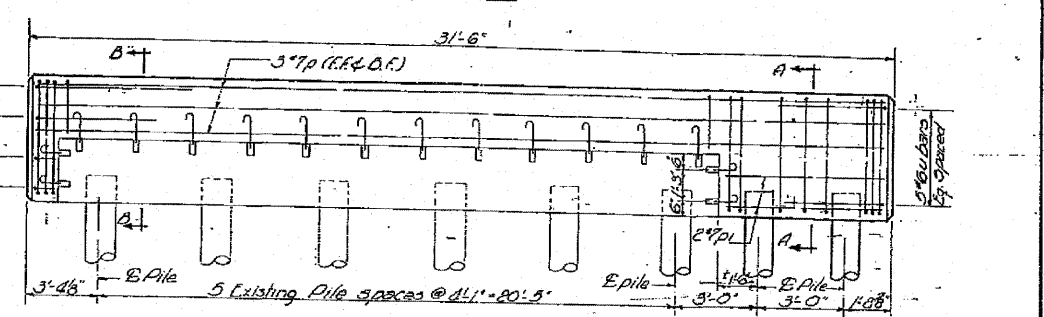
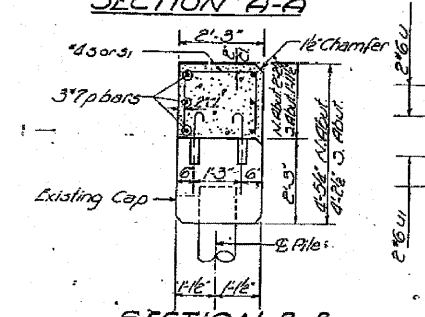
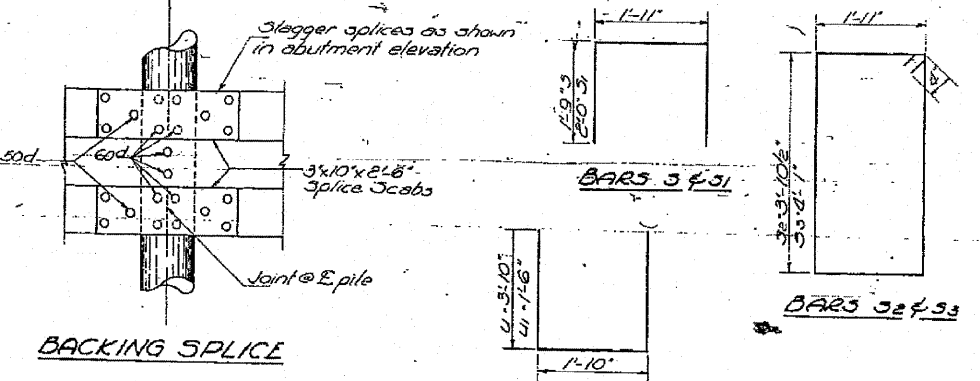
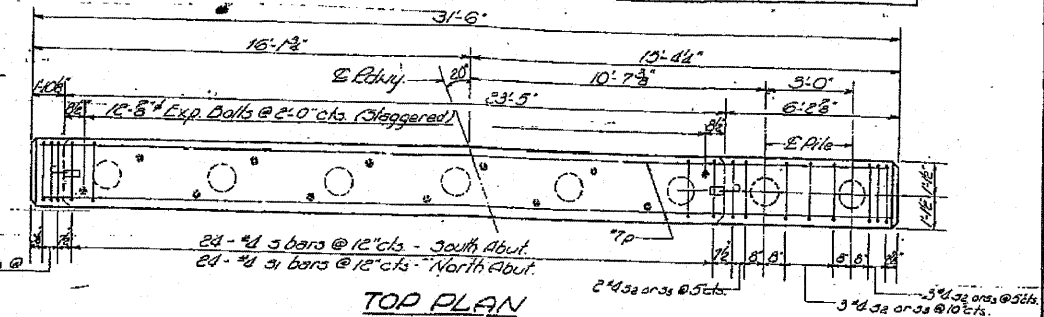
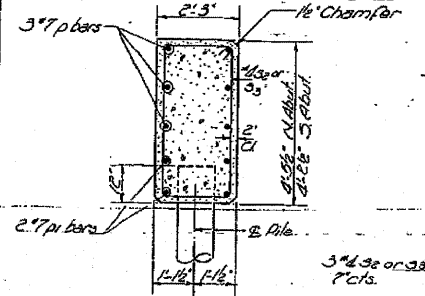
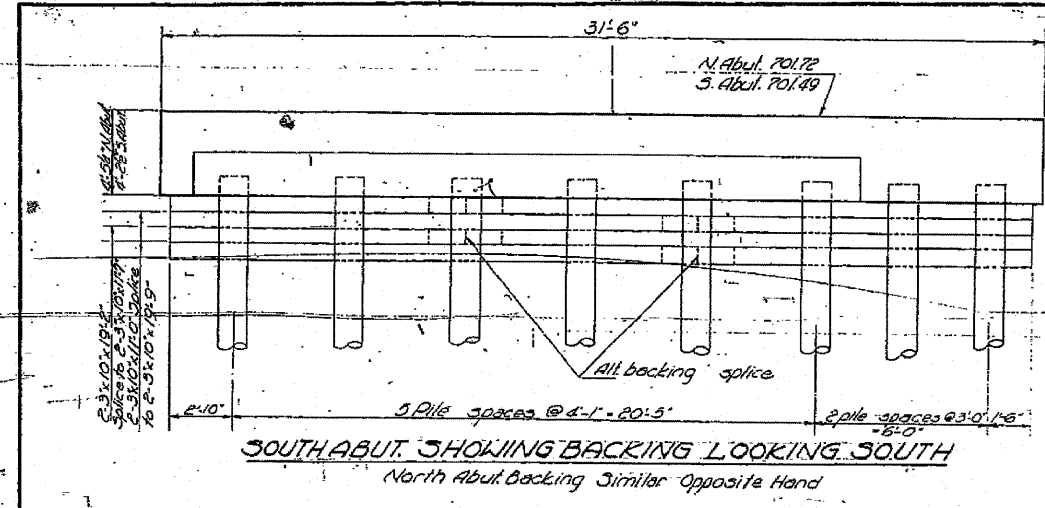
BILL OF MATERIAL

ITEM	Qu.
Precast Prestressed Conc. Bridge Deck	391 257

DESIGNED	AP Henderson	EXAMINED	W. B. B...
CHECKED	J. J...	PASSED	E. J...
DRAWN	APR. A. Baraza	APPROVED	R. K. B...
CHECKED	J. A. P.		

SEPT. 9. 1960

SUPERSTRUCTURE
ALT. 381, RTE. 82 - SEC. 137-1B
HENRY COUNTY
STA. 434+88.3



PILE DATA

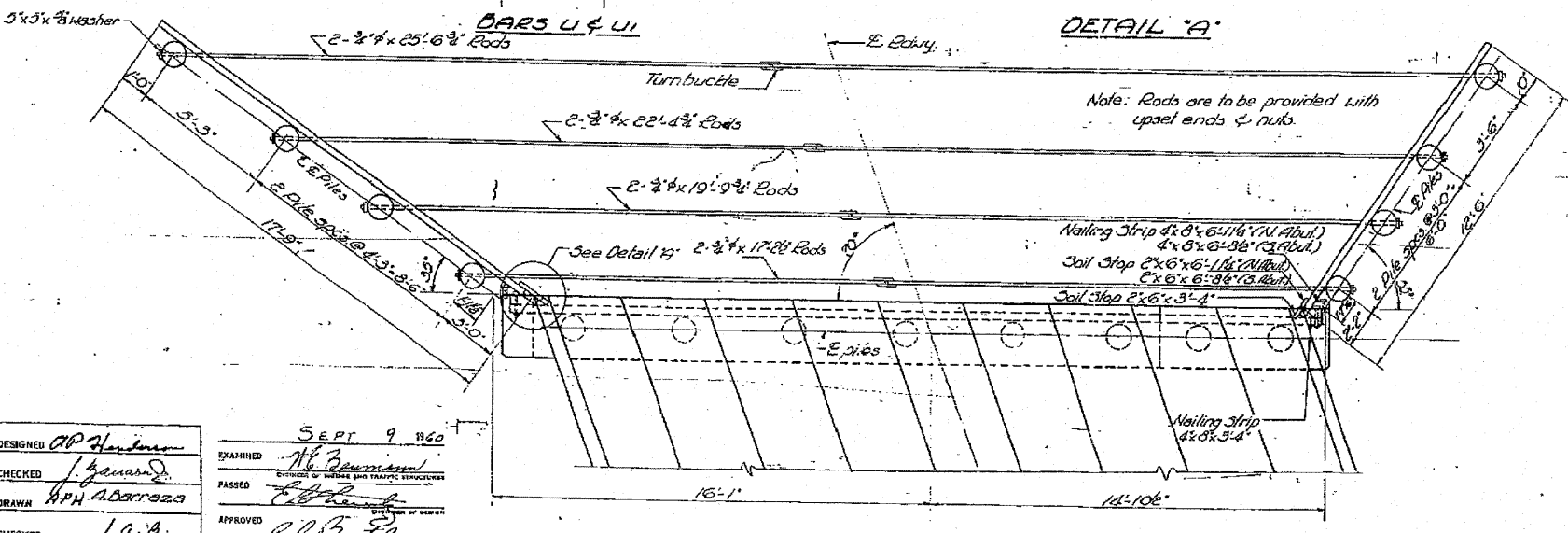
Type	Abutment	Wingwalls
	Crested	Crested
Capacity	20 Tons	10 Tons
Est. Length	30 Ft.	30 Ft.
No. Req'd	4	16

BAR LIST - 2 ABUTS.

Con.	No.	Size	Length	Shape
P	12	#7	3'-2"	
P	8	#7	6'-0"	
S	24	#4	5'-5"	
S1	24	#4	5'-11"	
S2	11	#4	12'-3"	
S3	11	#4	12'-8"	
U	14	#6	9'-6"	
U	4	#6	4'-10"	

BILL OF MATERIAL - 2 ABUTS.

ITEM	Qu.	ITEM	Qu.
Plank 3x10x19'-2"	4	Soil Stop 2x6x6-8 1/2"	2
3x10x11'-7"	4	2x6x3'-4"	4
3x10x11'-0"	4	Rods 3/8x25'-6 3/4"	4
3x10x19'-9"	4	3/8x22'-4 1/2"	4
3x10x6'-0"	4	3/8x19'-9 3/4"	4
3x10x12'-6"	20	3/8x17'-2 1/2"	4
3x10x9'-0"	4	Anchor Bolts 3/4x5"	36
3x10x17'-9"	16	Bolts 3/4x12"	16
3x10x8'-3"	4	Washers 3/4x5x3/8"	16
Splice 3x10x2'-6"	8	Expansion Bolts 3/4"	32
Nailing Strip 4x8x6-1/4"	1	Turnbuckles	8
4x8x6-8 1/2"	1	50 d Nails	144
4x8x3'-4"	2	60 d Nails	576
4x11x3'-4"	2	Class X Concrete Curbs	138
4x11x6-8 1/2"	1	Reinforcement Bars	1460
4x11x6-1 1/4"	1	Treated Timber	EB.M. 2450
Soil Stop 2x6x6-1 1/4"	2	Crested Piles	Ln. Ft. 600



DESIGNED: AP Henderson
 CHECKED: J. Howard
 DRAWN: APN A. Barroza
 CHECKED: J. A. P.
 EXAMINED: H. J. Reumann
 PASSED: [Signature]
 APPROVED: R. L. [Signature]

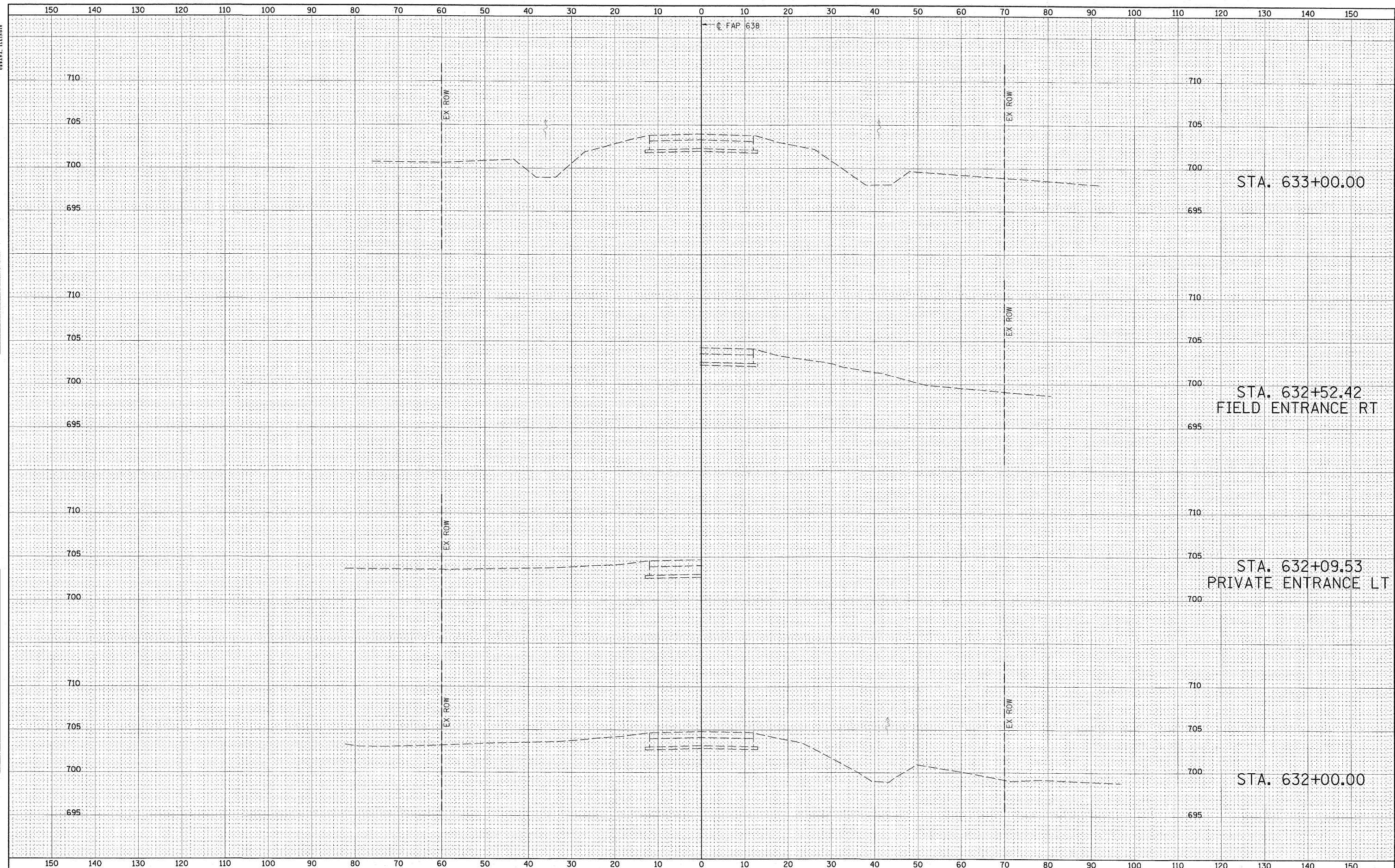
PLAN
 Note: Wingwalls symmetrical by Rot. thru 180° for detail & planting of Abutment wings see General Plan & Elevation sheet.

ABUTMENTS
 ALT. S.B.T. RT. 82 - SEC. 137-18
 HENRY COUNTY
 STA. 434+88.3



FINISH	SUBMITTED	DATE
SURVEY	PLOTTED	BY
NOTE BOOK	TEMPLATE	
NO.	AREAS CHECKED	

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

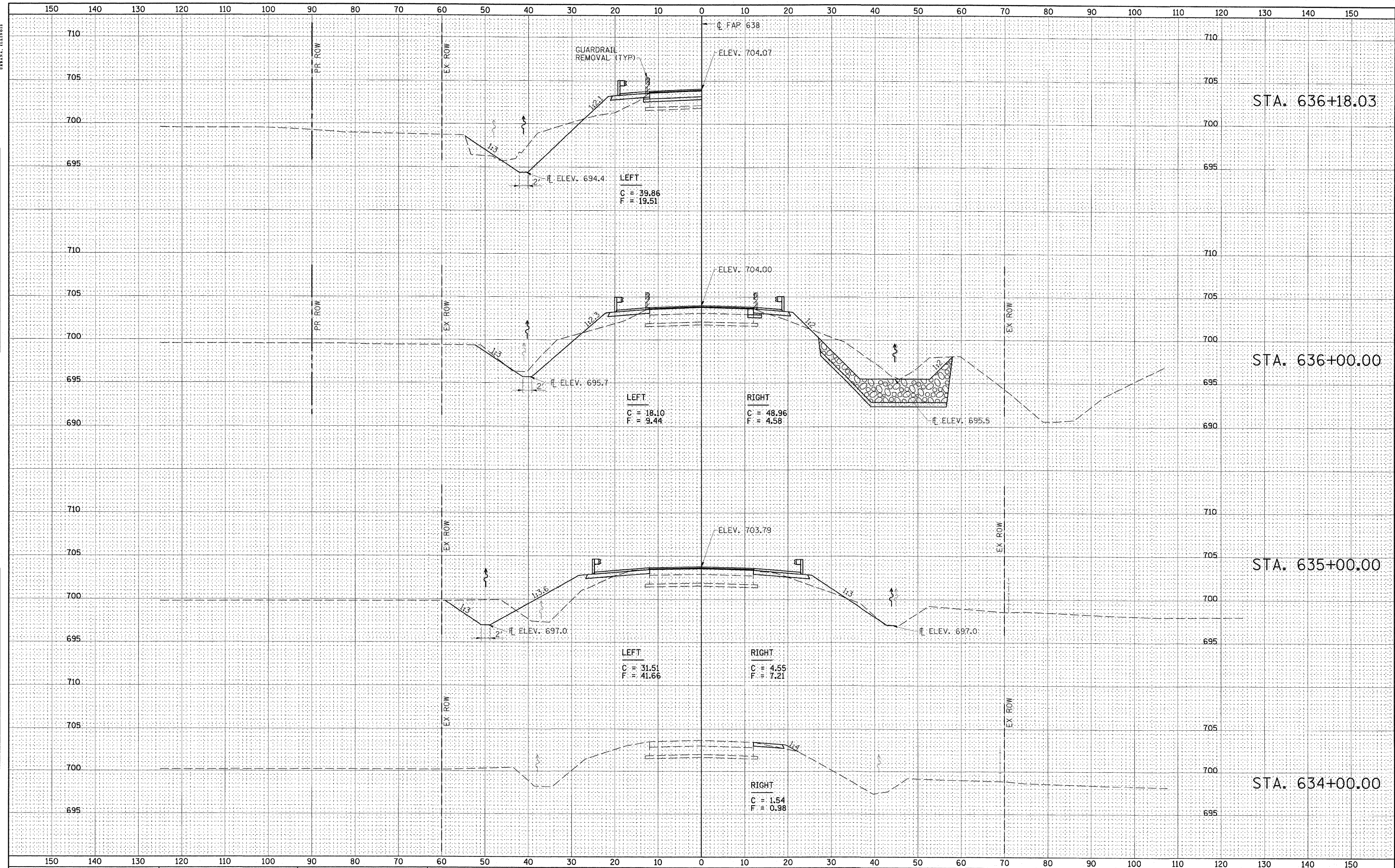


FILE NAME = 0204428-sh1-xssht02.dgn	USER NAME = HAS	DESIGNED - JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 82 CROSS SECTIONS			F.A.P. RTE. 638	SECTION 137-1BR	COUNTY HENRY	TOTAL SHEETS 67	SHEET NO. 22
SCALES: (HORIZ) 1"=10' (VERT) 1"=5'	PLOT SCALE = 10.0733' / IN.	DRAWN - JPC	REVISED -		SCALE: 1"=10'-0"	SHEET NO. 1 OF 5 SHEETS	STA. 632+00 TO STA. 633+00	CONTRACT NO. 64428				
	PLOT DATE = 3/23/2009 9:57:42 AM	CHECKED - ELH	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
		DATE - 03/13/09	REVISED -									



FINAL SURVEY	NO. _____
DESIGNED	BY _____
PLOTTED	DATE _____
TEMPLATE	
AREAS CHECKED	

ORIGINAL SURVEY	NO. _____
DESIGNED	BY _____
PLOTTED	DATE _____
TEMPLATE	
AREAS CHECKED	

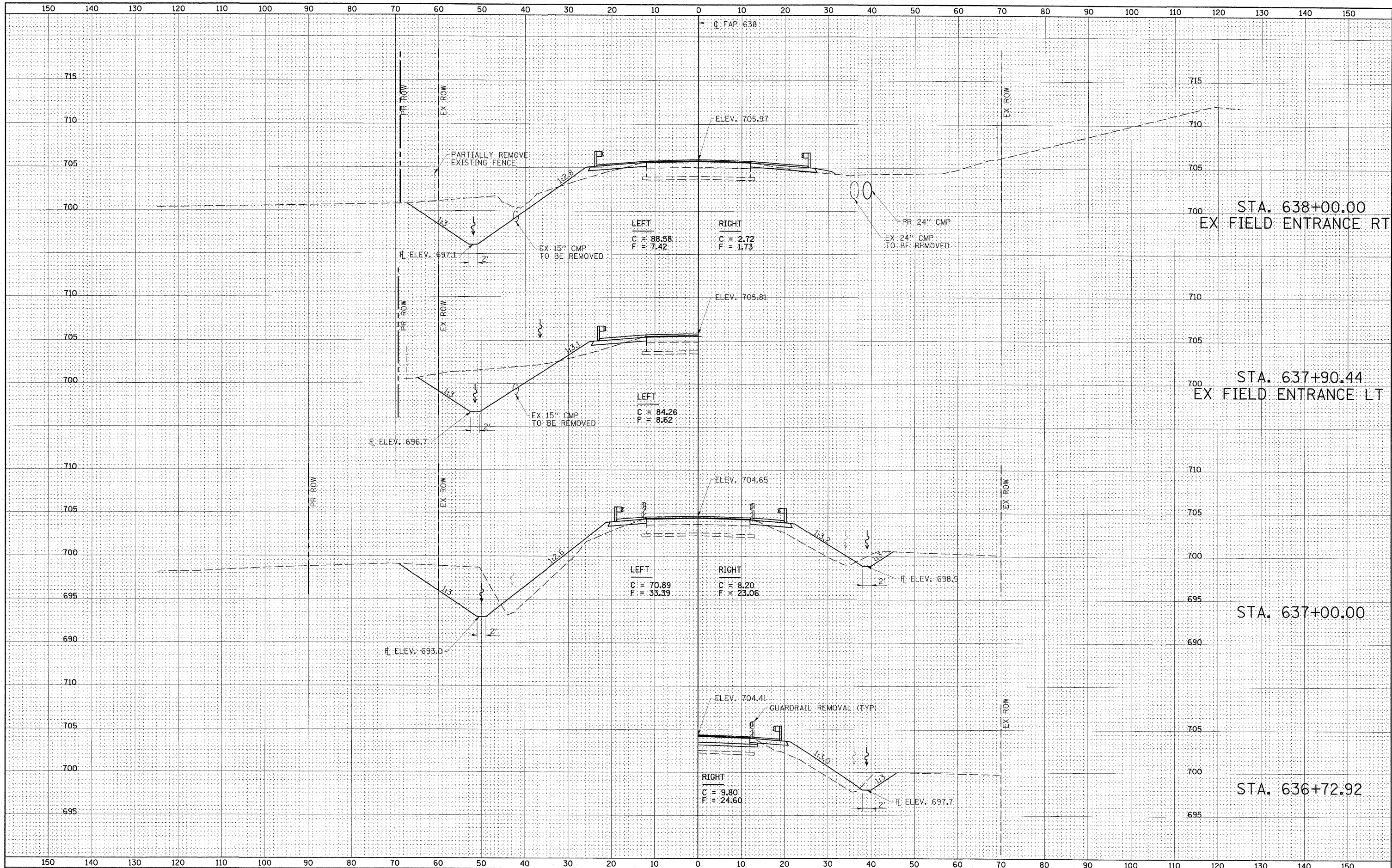


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SCALE: (HORIZ) 1"=10'-0" (VERT) 1"=5'	PLOT SCALE = 10.0733' / IN.	DRAWN - JPC	REVISED -			SCALE: 1"=10'-0"	SHEET NO. 2 OF 5 SHEETS	STA. 634+00 TO STA. 636+18.03	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 64428
	PLOT DATE = 3/23/2009 9:58:00 AM	CHECKED - ELH	REVISED -								
		DATE - 03/13/09	REVISED -								



DATE	BY	REVIEWED	DATE
NO.	NO.	NO.	NO.
ORIGINAL SURVEY	DESIGNED	CHECKED	DATE
NOTE BOOK	PLANNED	PLANNED	
AREAS CHECKED	AREAS CHECKED	AREAS CHECKED	

DATE	BY	REVIEWED	DATE
NO.	NO.	NO.	NO.
ORIGINAL SURVEY	DESIGNED	CHECKED	DATE
NOTE BOOK	PLANNED	PLANNED	
AREAS CHECKED	AREAS CHECKED	AREAS CHECKED	

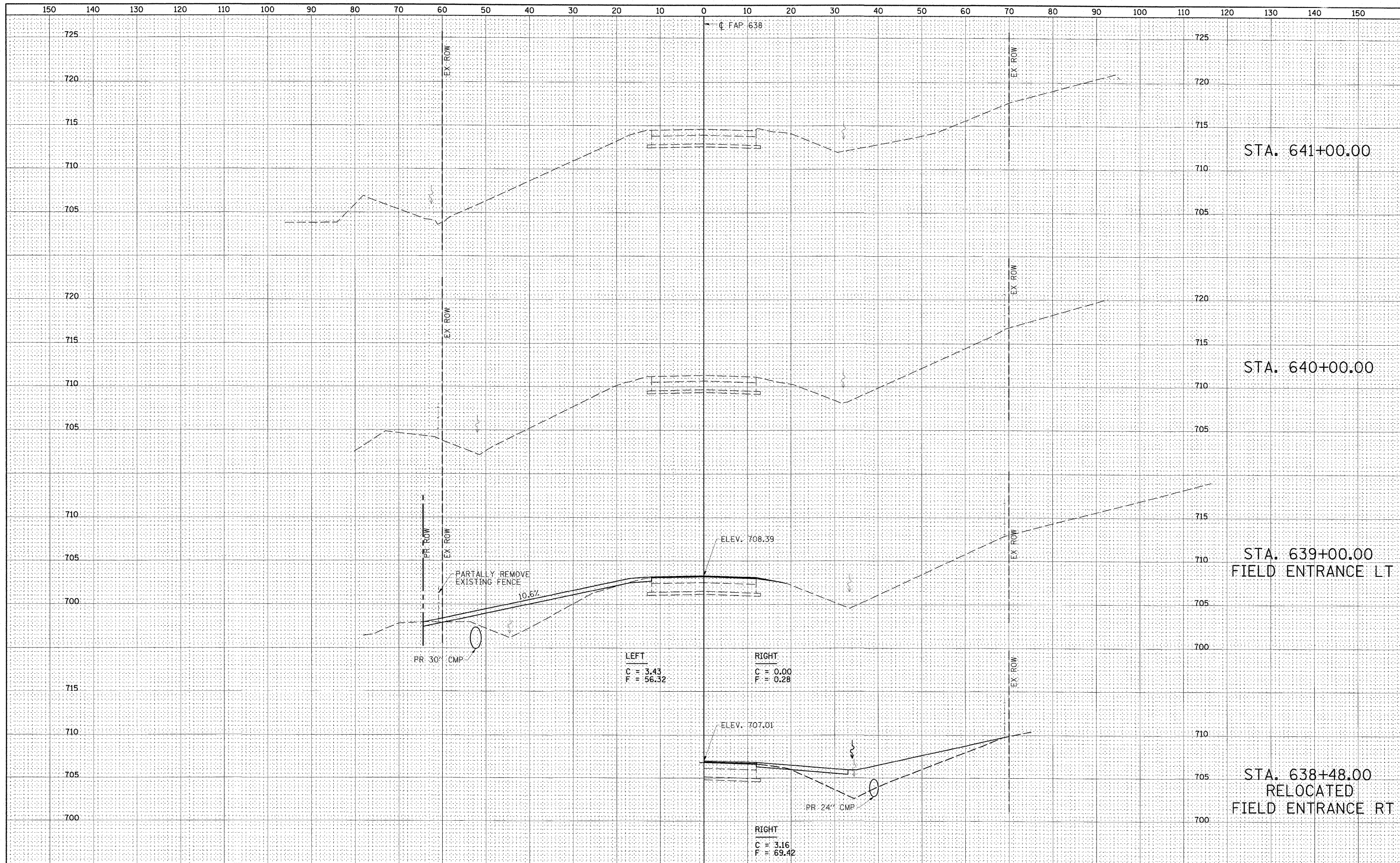


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SCALE: (HORIZ) 1"=10'-0" (VERT) 1"=5'	PLOT SCALE = 18.8733 / IN.	DRAWN - JPC	REVISOR -		SCALE: 1"=10'-0"	SHEET NO. 3 OF 5 SHEETS	STA. 636+72.92 TO STA. 638+00	CONTRACT NO. 64428				
	PLOT DATE = 3/23/2009 9:58:19 AM	CHECKED - ELH	REVISOR -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
		DATE - 03/13/09	REVISOR -									



FINN	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

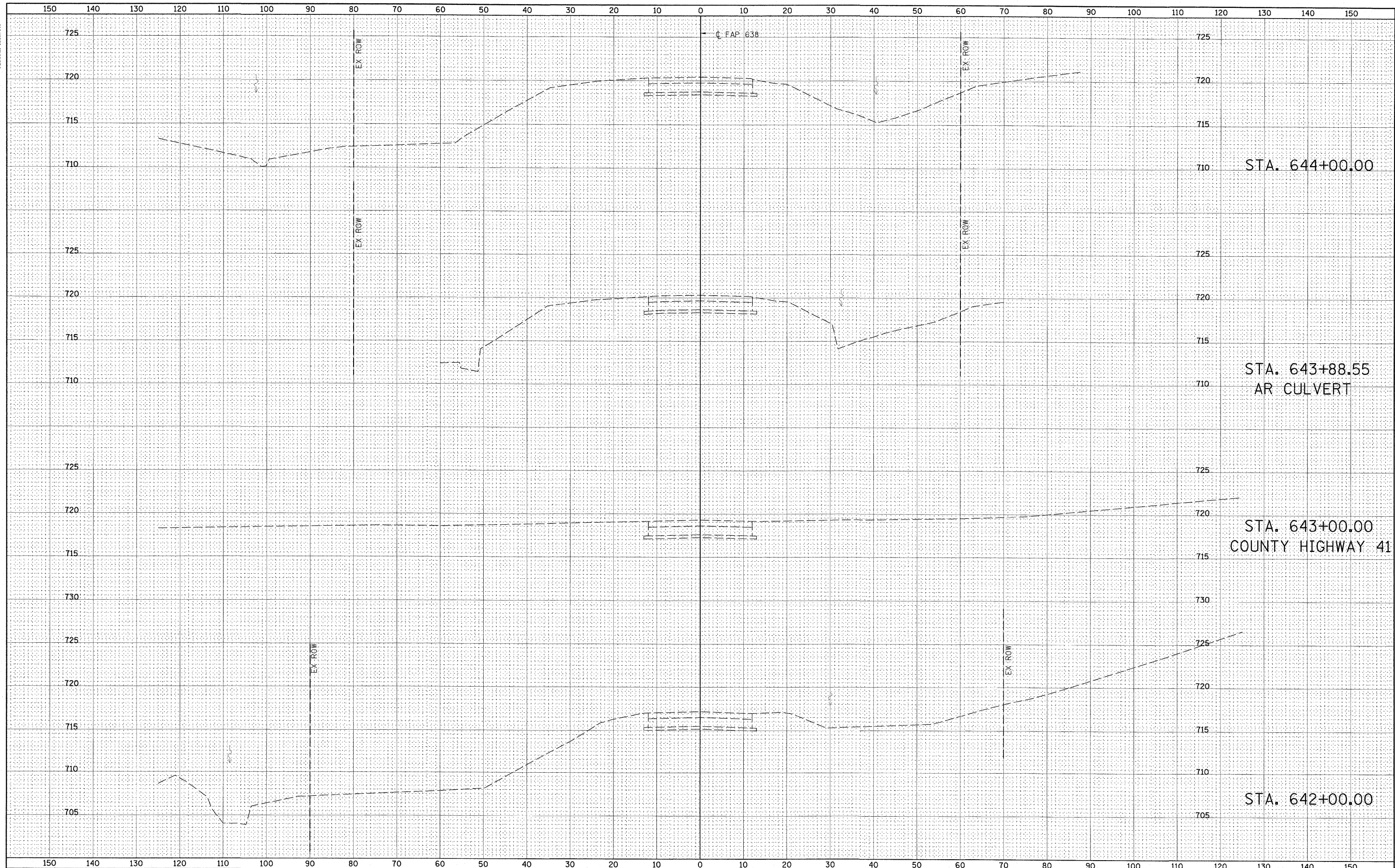
ORIGINAL	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		



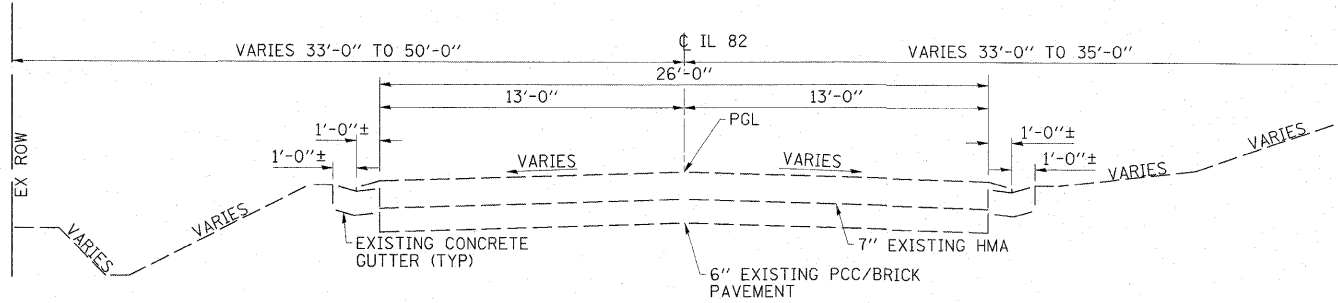


FINAL SURVEY	CHECKED	DATE
NOTE BOOK	PLOTTED	BY
NO.	AREAS	
	CHECKED	

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

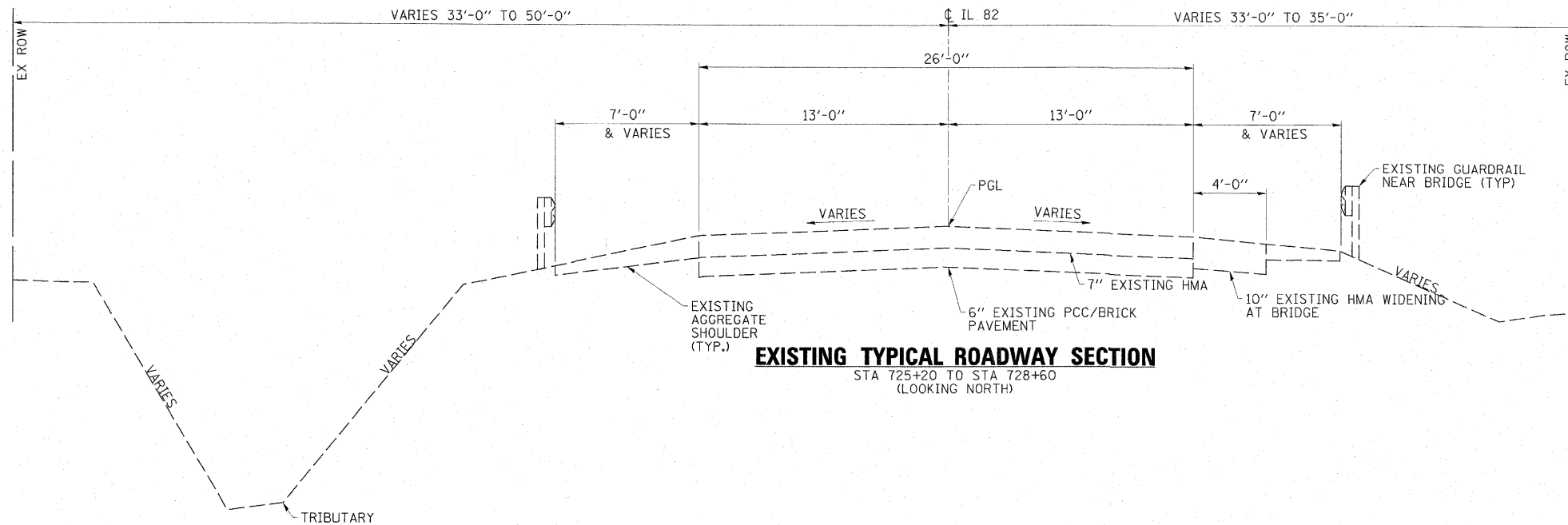


FILE NAME =	USER NAME = HAS	DESIGNED - JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 82 CROSS SECTIONS		F.A.P. RTE. 638	SECTION 137-1BR	COUNTY HENRY	TOTAL SHEETS 67	SHEET NO. 26	
D264428-sh1-vssht02.dgn	PLOT SCALE = 10.0733' / IN.	DRAWN - JPC	REVISED -		SCALE: 1"=10'-0"	SHEET NO. 5 OF 5 SHEETS	STA. 642+00 TO STA. 644+00	CONTRACT NO. 64428				
SCALES: (HORIZ) 1"=10' (VERT) 1"=5'	PLOT DATE = 3/23/2009 9:59:01 AM	CHECKED - ELH	REVISED -		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT							
		DATE - 03/13/09	REVISED -									



EXISTING TYPICAL ROADWAY SECTION

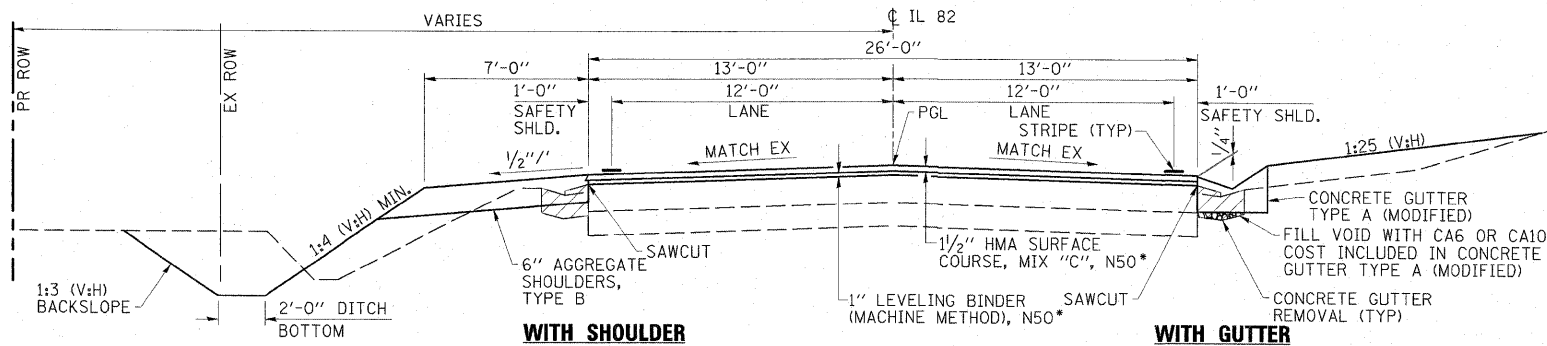
STA 712+00 TO STA 725+20
STA 728+60 TO STA 737+30
(LOOKING NORTH)



EXISTING TYPICAL ROADWAY SECTION

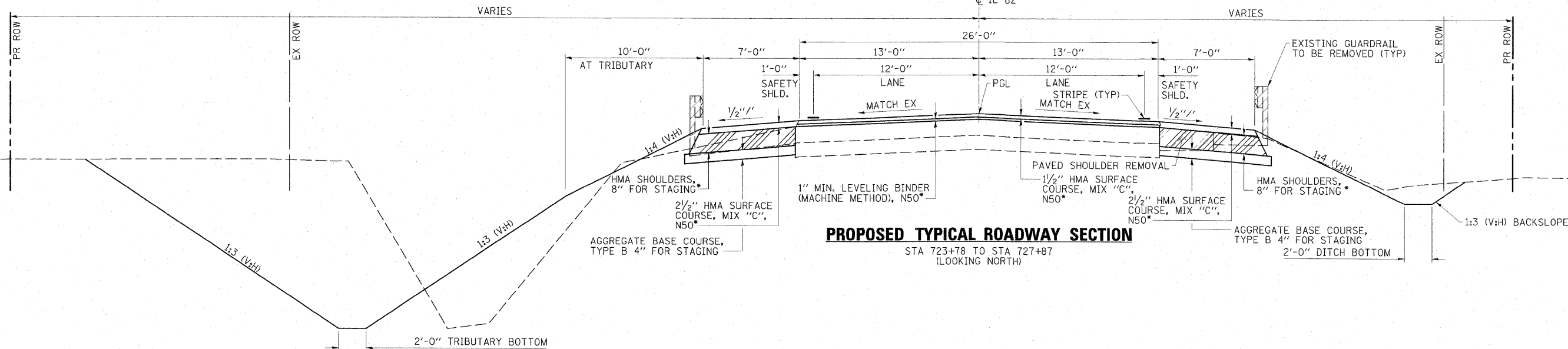
STA 725+20 TO STA 728+60
(LOOKING NORTH)

FILE NAME = D264428-shr-typical01.dgn	USER NAME = HAS	DESIGNED - JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		DRAWN - JPC	REVISED -		SCALE: 1/4"=1'-0"	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.	638	136BR-1	HENRY	67	27
		CHECKED - ELH	REVISED -						CONTRACT NO. 64428				
		DATE - 03/13/09	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								



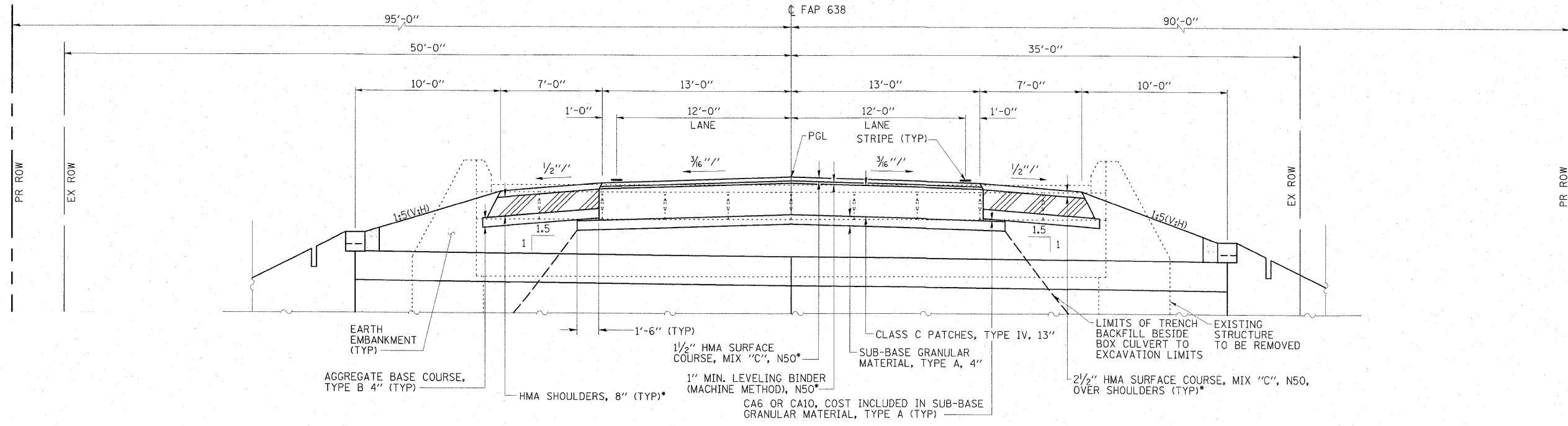
PROPOSED TYPICAL ROADWAY SECTION

STA 721+50 TO STA 723+96
STA 727+67 TO STA 731+00
(LOOKING NORTH)



PROPOSED TYPICAL ROADWAY SECTION

STA 723+78 TO STA 727+87
(LOOKING NORTH)



PROPOSED SECTION THRU BOX CULVERT

(LOOKING NORTH)

*RATE= 112 LB/SQ YD/IN

FILE NAME = D264428-shr-typroal02.dgn	USER NAME = HAS	DESIGNED - JMS	REVISED -
		DRAWN - JPC	REVISED -
		CHECKED - ELH	REVISED -
		DATE - 3/13/09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS	
SCALE: 1/4"=1'-0"	SHEET NO. 2 OF 2 SHEETS
STA.	TO STA.

F.A.P. RTE. 638	SECTION 136BR-1	COUNTY HENRY	TOTAL SHEETS 67	SHEET NO. 28
CONTRACT NO. 64428				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



ITEM NO.	DESCRIPTION	QUANTITY	LOCATION	REMARKS
#2001384	REPLACE SECTION CORNER			
	<u>EACH</u> <u>LOCATION</u>			<u>REMARKS</u>
	1 Sta. 722+17.79, 4.32' RT			
	1 TOTAL			
20200100	EARTH EXCAVATION			
	<u>CU YD</u> <u>LOCATION</u>			<u>REMARKS</u>
	215 RT Sta. 726+01.80 to 731+00			
	305 RT Sta. 721+50 to 725+41.80			
	1230 LT Sta. 726+01.80 to 731+00			
	250 LT Sta. 721+50 to 725+41.80			
	2000 TOTAL			
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL			
	<u>CU YD</u> <u>LOCATION</u>			<u>REMARKS</u>
	265 SN 037-0172			
	265 TOTAL			
25000210	SEEDING, CLASS 2A			
	<u>ACRE</u> <u>LOCATION</u>			<u>REMARKS</u>
	0.15 RT Culvert to Sta. 731+00			
	0.15 RT Sta. 721+50 to Culvert			
	0.15 LT Culvert to Sta. 731+00			
	0.15 LT Sta. 721+50 to Culvert			
	0.6 TOTAL			
25000310	SEEDING, CLASS 4			
	<u>ACRE</u> <u>LOCATION</u>			<u>REMARKS</u>
	0.2 RT Culvert to Sta. 731+00			
	0.2 RT Sta. 721+50 to Culvert			
	0.3 LT Culvert to Sta. 731+00			
	0.2 LT Sta. 721+50 to Culvert			
	0.9 TOTAL			
25000750	MOWING			
	<u>ACRE</u> <u>LOCATION</u>			<u>REMARKS</u>
	0.35 RT Culvert to Sta. 731+00			
	0.35 RT Sta. 721+50 to Culvert			
	0.45 LT Culvert to Sta. 731+00			
	0.35 LT Sta. 721+50 to Culvert			
	1.5 TOTAL			
25100115	MULCH, METHOD 2			
	<u>ACRE</u> <u>LOCATION</u>			<u>REMARKS</u>
	1.4 RT Culvert to Sta. 731+00			4 applications assumed
	1.4 RT Sta. 721+50 to Culvert			4 applications assumed
	1.8 LT Culvert to Sta. 731+00			4 applications assumed
	1.4 LT Sta. 721+50 to Culvert			4 applications assumed
	6.0 TOTAL			
25100630	EROSION CONTROL BLANKET			
	<u>SQ YD</u> <u>LOCATION</u>			<u>REMARKS</u>
	800 LT Sta. 724+80 to Culvert			
	2420 LT Culvert to Sta. 729+45			
	890 RT Sta. 722+69 to Culvert			
	1370 RT Culvert to Sta. 729+55			
	5480 TOTAL			
28000250	TEMPORARY EROSION CONTROL SEEDING			
	<u>POUND</u> <u>LOCATION</u>			<u>REMARKS</u>
	140 RT Culvert to Sta. 731+00			4 applications assumed
	140 RT Sta. 721+50 to Culvert			4 applications assumed
	180 LT Culvert to Sta. 731+00			4 applications assumed
	140 LT Sta. 721+50 to Culvert			4 applications assumed
	600 TOTAL			
28000300	TEMPORARY DITCH CHECKS			
	<u>EACH</u> <u>LOCATION</u>			<u>REMARKS</u>
	1 LT Sta. 724+90			
	1 LT Sta. 725+10			
	1 LT Sta. 725+25			
	1 LT Sta. 725+40			
	1 LT Sta. 726+00			
	1 RT Sta. 726+10			
	1 RT Sta. 726+80			
	1 LT Sta. 727+00			
	1 RT Sta. 727+60			
	1 LT Sta. 728+00			
	1 RT Sta. 728+40			
	1 LT Sta. 729+00			
	1 RT Sta. 729+20			
	1 RT Sta. 730+00			
	14 TOTAL			
28000400	PERIMETER EROSION BARRIER			
	<u>FOOT</u> <u>LOCATION</u>			<u>REMARKS</u>
	120 LT Sta. 724+50 to 725+60			
	455 LT Sta. 725+90 to 730+40			
	80 LT Sta. 730+60 to 731+40			
	380 RT Sta. 721+00 to 724+90			
	50 RT Sta. 725+20 to 725+60			
	530 RT Sta. 725+90 to 731+10			
	1615 TOTAL			
28100107	STONE RIPRAP, CLASS A4			
	<u>SQ YD</u> <u>LOCATION</u>			<u>REMARKS</u>
	145 LT & RT Sta. 725+45 to 726+05			
	5 RT Sta. 722+70			
	40 LT Sta. 724+75			
	10 LT & RT Sta. 729+55			
	200 TOTAL			
28200200	FILTER FABRIC			
	<u>SQ YD</u> <u>LOCATION</u>			<u>REMARKS</u>
	145 LT & RT Sta. 725+45 to 726+05			
	5 RT Sta. 722+70			
	40 LT Sta. 724+75			
	10 LT & RT Sta. 729+55			
	200 TOTAL			
31100300	SUB-BASE GRANULAR MATERIAL, TYPE A 4"			
	<u>SQ YD</u> <u>LOCATION</u>			<u>REMARKS</u>
	197 Sta. 725+41.8 to 726+01.8			
	197 TOTAL			
35101400	AGGREGATE BASE COURSE, TYPE B			
	<u>TON</u> <u>LOCATION</u>			<u>REMARKS</u>
	39 LT FE Sta. 723+70			
	48 RT FE Sta. 724+98			
	41 LT FE Sta. 730+50			
	128 TOTAL			
35101600	AGGREGATE BASE COURSE, TYPE B 4"			
	<u>SQ YD</u> <u>LOCATION</u>			<u>REMARKS</u>
	391 LT Sta. 723+59 to 727+87			Pre-Stage I
	356 RT Sta. 723+78 to 727+68			Stage I
	55 LT Sta. 725+41.80 to 726+01.80			Stage II
	802 TOTAL			
40201000	AGGREGATE FOR TEMPORARY ACCESS			
	<u>TON</u> <u>LOCATION</u>			<u>REMARKS</u>
	140 Sta. 722+97 to 724+86			Pre-Stage I
	140 TOTAL			
40600625	LEVELING BINDER (MACHINE METHOD), N50			
	<u>TON</u> <u>LOCATION</u>			<u>REMARKS</u>
	224 Sta. 722+00 to 730+50			
	224 TOTAL			
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT			
	<u>SQ YD</u> <u>LOCATION</u>			<u>REMARKS</u>
	86.5 Sta. 721+50			
	86.5 Sta. 731+00			
	173 TOTAL			
40600990	TEMPORARY RAMP			
	<u>SQ YD</u> <u>LOCATION</u>			<u>REMARKS</u>
	23 Sta. 721+50			
	23 Sta. 731+00			
	46 TOTAL			
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50			
	<u>TON</u> <u>LOCATION</u>			<u>REMARKS</u>
	235 Sta. 721+50 to 731+00			
	44 RT Sta. 723+78 to 727+68			
	39 LT Sta. 724+42 to 727+87			
	318 TOTAL			
44000400	GUTTER REMOVAL			
	<u>FOOT</u> <u>LOCATION</u>			<u>REMARKS</u>
	332 RT Sta. 721+50 to 724+80			
	352 LT Sta. 721+50 to 724+80			
	260 RT Sta. 728+44 to 731+00			
	253 LT Sta. 728+55 to 731+00			
	1197 TOTAL			
44004250	PAVED SHOULDER REMOVAL			
	<u>SQ YD</u> <u>LOCATION</u>			<u>REMARKS</u>
	65 LT Sta. 723+59 to 724+55			Proposed shoulder for gutter
	22 LT Sta. 724+80 to 725+47			
	34 RT Sta. 724+80 to Bridge			
	37 RT Bridge to Sta. 726+70			
	48 LT Sta. 725+41.80 to 726+01.80			Stage II
	206 TOTAL			
44201396	CLASS C PATCHES, TYPE IV, 13"			
	<u>SQ YD</u> <u>LOCATION</u>			<u>REMARKS</u>
	178 Sta. 725+41.8 to 726+01.8			
	178 TOTAL			
48101200	AGGREGATE SHOULDERS, TYPE B			
	<u>TON</u> <u>LOCATION</u>			<u>REMARKS</u>
	46 RT Sta. 722+30 to 723+78			
	64 RT Sta. 727+87 to 730+00			
	70 LT Sta. 727+68 to 730+00			
	180 TOTAL			
48203029	HOT-MIX ASPHALT SHOULDERS, 8"			
	<u>SQ YD</u> <u>LOCATION</u>			<u>REMARKS</u>
	343 LT Sta. 723+59 to 727+87			
	313 RT Sta. 723+78 to 727+68			
	48 LT Sta. 725+41.80 to 726+01.80			
	704 TOTAL			
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2			
	<u>EACH</u> <u>LOCATION</u>			<u>REMARKS</u>
	1 SN 037-0091			
	1 TOTAL			
51500100	NAME PLATES			
	<u>EACH</u> <u>LOCATION</u>			<u>REMARKS</u>
	1 SN 037-0172			
	1 TOTAL			
54001000	BOX CULVERT END SECTIONS			
	<u>EACH</u> <u>LOCATION</u>			<u>REMARKS</u>
	2 SN 037-0172			
	2 TOTAL			
54011209	PRECAST CONCRETE BOX CULVERT 12' X 9'			
	<u>FOOT</u> <u>LOCATION</u>			<u>REMARKS</u>
	120 SN 037-0172			
	120 TOTAL			
60406610	GRATING (SPECIAL)			
	<u>EACH</u> <u>LOCATION</u>			<u>REMARKS</u>
	4 SN 037-0172			
	4 TOTAL			



ITEM NO.	DESCRIPTION	QUANTITY	LOCATION	REMARKS	ITEM NO.	DESCRIPTION	QUANTITY	LOCATION	REMARKS	ITEM NO.	DESCRIPTION	QUANTITY	LOCATION	REMARKS
6060095	CLASS SI CONCRETE (OUTLET)				70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326				Z0001900	ASBESTOS BEARING PAD REMOVAL			
	CU YD		LOCATION	REMARKS		L SUM		LOCATION	REMARKS		EACH		LOCATION	REMARKS
	7.7		RT Sta. 721+80 to 722+70			1		SN 037-0172			20		SN 037-0091	
	8.3		LT Sta. 724+03 to 724+73			1	TOTAL				20	TOTAL		
	6.5		LT Sta. 729+58 to 730+30		70103815	TRAFFIC CONTROL SURVEILLANCE				Z0005400	BREAKER-RUN CRUSHED STONE			
	6.5		LT Sta. 729+56 to 730+20			CAL DA		LOCATION	REMARKS		TON		LOCATION	REMARKS
	8.3		LT FE Sta. 723+70			2		SN 037-0172			360		SN 037-0172	141'-4"x32'-3"x12"
	8.3		LT FE Sta. 730+50			2	TOTAL				360	TOTAL		
	45.6	TOTAL			70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS				Z0013798	CONSTRUCTION LAYOUT			
60602600	CONCRETE GUTTER, TYPE A (MODIFIED)					EACH		LOCATION	REMARKS		L SUM		LOCATION	REMARKS
	FOOT		LOCATION	REMARKS		1		SN 037-0172			0.5		SN 037-0172	
	187		LT Sta. 721+50 to 723+37			1	TOTAL				0.5	TOTAL		
	30		RT Sta. 721+50 to 721+80		70106700	TEMPORARY RUMBLE STRIP				Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3			
	13		LT Sta. 730+87 to 731+00			EACH		LOCATION	REMARKS		EACH		LOCATION	REMARKS
	70		RT Sta. 730+30 to 731+00			1		Sta. 705+19			1		Sta. 723+79	Stage I
	300	TOTAL				1		Sta. 710+19			1		Sta. 727+67	Stage I
63200310	GUARDRAIL REMOVAL					1		Sta. 715+19		Z0030260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3			
	FOOT		LOCATION	REMARKS		1		Sta. 736+31			EACH		LOCATION	REMARKS
	88		LT Sta. 724+60 to 725+58.47			1		Sta. 741+31			1		Sta. 724+17	Stage II
	50		RT Sta. 725+11 to 725+58.47			1		Sta. 746+31			1		Sta. 727+29	Stage II
	375		LT Sta. 725+85.13 to 726+87			1					2	TOTAL		
	100		RT Sta. 725+85.13 to 729+61		70300100	SHORT-TERM PAVEMENT MARKING				Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3			
	613	TOTAL				6	TOTAL				EACH		LOCATION	REMARKS
63500105	DELINEATORS					FOOT		LOCATION	REMARKS		1		Sta. 724+17	Stage II
	EACH		LOCATION	REMARKS		68		Sta. 722+19 to 728+94	Yellow centerline striping		1		Sta. 727+29	Stage II
	2		LT & RT Sta. 725+71.80			288		Sta. 721+50 to 731+00	3 applications of yellow centerline striping	Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3			
	2	TOTAL				64		Sta. 721+50 to 731+00	2 applications of white edge line striping		EACH		LOCATION	REMARKS
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS					420	TOTAL				1		Sta. 724+17	Stage II
	EACH		LOCATION	REMARKS	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"					1		Sta. 727+29	Stage II
	1		RT Sta. 721+00			FOOT		LOCATION	REMARKS	X0323988	TEMPORARY SOIL RETENTION SYSTEM			
	1		RT Sta. 722+00			1900		LT & RT Sta. 721+50 to 731+00	White edgeline striping		SQ FT		LOCATION	REMARKS
	1		LT Sta. 723+00			40		Sta. 729+75 to 731+00	Yellow skip-dash centerline SB		430		SN 037-0172	
	1		LT Sta. 724+50			85		Sta. 730+15 to 731+00	Yellow no pass centerline NB		430	TOTAL		
	1		RT Sta. 724+75			220		Sta. 721+50 to 730+15	Yellow skip-dash centerline NB					
	2		LT & RT Sta. 725+25			825		Sta. 721+50 to 729+75	Yellow no pass centerline SB					
	1		RT Sta. 726+00			3070	TOTAL							
	1		LT Sta. 726+25		70301000	WORK ZONE PAVEMENT MARKING REMOVAL								
	1		RT Sta. 727+00			SQ FT		LOCATION	REMARKS					
	2		LT & RT Sta. 728+00			655		LT & RT Sta. 721+50 to 731+00	Edgeline striping					
	1		LT Sta. 729+75			509		Sta. 721+50 to 731+00	Centerline striping					
	1		RT Sta. 730+00			1164	TOTAL							
	1		LT Sta. 731+00		70400100	TEMPORARY CONCRETE BARRIER								
	1		RT Sta. 731+29.32			FOOT		LOCATION	REMARKS					
	1		LT Sta. 733+00			387.5		Sta. 723+79 to 727+67	Stage I					
	1		LT Sta. 737+00			237.5		Sta. 724+17 to 727+29	Stage II					
	1		LT Sta. 738+00			625	TOTAL							
	19	TOTAL			70400200	RELOCATE TEMPORARY CONCRETE BARRIER								
66700305	PERMANENT SURVEY MARKERS, TYPE II					FOOT		LOCATION	REMARKS					
	EACH		LOCATION	REMARKS		387.5		Sta. 724+17 to 727+29	Stage II					
	2		SN 037-0172			387.5	TOTAL							
	2	TOTAL			78001110	PAINT PAVEMENT MARKING - LINE 4"								
67000400	ENGINEER'S FIELD OFFICE, TYPE A					FOOT		LOCATION	REMARKS					
	CAL MO		LOCATION	REMARKS		387.5		Sta. 724+17 to 727+29	Stage II					
	3		SN 037-0172			387.5	TOTAL							
	3	TOTAL			67100100	MOBILIZATION								
	L SUM		LOCATION	REMARKS		FOOT		LOCATION	REMARKS					
	0.5		SN 037-0172			3800		LT & RT Sta. 721+50 to 731+00	White edgeline striping, 2 applications					
	0.5	TOTAL				80		Sta. 729+75 to 731+00	Yellow skip-dash centerline SB, 2 applications					
						170		Sta. 730+15 to 731+00	Yellow no pass centerline NB, 2 applications					
						440		Sta. 721+50 to 730+15	Yellow skip-dash centerline NB, 2 applications					
						1650		Sta. 721+50 to 729+75	Yellow no pass centerline SB, 2 applications					
						6140	TOTAL							
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321				78300100	PAVEMENT MARKING REMOVAL								
	EACH		LOCATION	REMARKS		SQ FT		LOCATION	REMARKS					
	1		SN 037-0172			25		Sta. 722+19 to 725+16.8	Centerline striping, Stage I					
	1	TOTAL				26		Sta. 726+29.30 to 729+31	Centerline striping, Stage I					
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201					132		LT Sta. 723+74.80 to 727+71.30	Edgeline striping, Stage I					
	L SUM		LOCATION	REMARKS		45		RT Sta. 724+06.80 to 725+41.80	Edgeline striping, Stage II					
	0.5		SN 037-0172			46		RT Sta. 726+01.80 to 727+39.30	Edgeline striping, Stage II					
	0.5	TOTAL				274	TOTAL							

LOCATION	20200100			
	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE
	(CU YD)	(CU YD)	(CU YD)	WASTE (+) SHORTAGE (-)
	(CU YD)	(CU YD)	(CU YD)	(CU YD)
RT STA. 726+01.80 TO 731+00	215	161	85	+76
RT STA. 721+50 TO 725+41.80	305	229	200	+29
LT STA. 726+01.80 TO 731+00	1230	922	525	+397
LT STA. 721+50 TO 725+41.80	250	188	80	+108
EXCAVATION FOR PR CULVERT	580*	435	310	+125
TOTALS	2580	1935	1200	+735

EXCAVATION USED AS EMBANKMENT = EARTH EXCAVATION * 0.75
 *COST INCLUDED IN PRECAST CONCRETE BOX CULVERT AND BOX CULVERT END SECTIONS



CHAIN IL82 DESCRIPTION

Chain IL82 contains:
310 CUR 200 210 CUR 220 230 CUR 240 250 CUR 260 CUR 270 280 CUR 290 10

Beginning chain IL82 description

Point 310 N 1,686,670.0404 E 2,296,953.0212 Sta 544+36.8000

Course from 310 to PC 200 0° 11' 52.9395" Dist 3,573.5528

Curve Data

Curve 200
P.I. Station 585+53.9859 N 1,690,787.2018 E 2,296,967.2519
Delta = 0° 21' 44.7179" (LT)
Degree = 0° 02' 00.0002"
Tangent = 543.6332
Length = 1,087.2628
Radius = 171,886.9999
External = 0.8597
Long Chord = 1,087.2609
Mid. Ord. = 0.8597
P.C. Station 580+10.3528 N 1,690,243.5718 E 2,296,965.3729
P.T. Station 590+97.6155 N 1,691,330.8327 E 2,296,965.6922
C.C. N 1,690,837.6858 E 2,125,079.3997
Back = 0° 11' 52.9395"
Ahead = 359° 50' 08.2217"
Chord Bear = 0° 01' 00.5806"

Course from PT 200 to 210 359° 50' 08.2217" Dist 2,097.1956

Point 210 N 1,693,428.0197 E 2,296,959.6753 Sta 611+94.8111

Course from 210 to PC 220 359° 43' 49.7963" Dist 4,047.8477

Curve Data

Curve 220
P.I. Station 656+39.6999 N 1,697,872.8594 E 2,296,938.7680
Delta = 0° 37' 51.6843" (RT)
Degree = 0° 04' 46.0796"
Tangent = 397.0411
Length = 794.0743
Radius = 72,100.4990
External = 1.0932
Long Chord = 794.0703
Mid. Ord. = 1.0932
P.C. Station 652+42.6588 N 1,697,475.8226 E 2,296,940.6356
P.T. Station 660+36.7331 N 1,698,269.8926 E 2,296,941.2733
C.C. N 1,697,814.9581 E 2,369,040.3370
Back = 359° 43' 49.7963"
Ahead = 0° 21' 41.4806"
Chord Bear = 0° 02' 45.6385"

Course from PT 220 to 230 0° 21' 41.4806" Dist 4,946.9845

Point 230 N 1,703,216.7786 E 2,296,972.4873 Sta 709+83.7176

Course from 230 to PC 240 0° 29' 46.3397" Dist 5,047.5240

Curve Data

Curve 240
P.I. Station 765+31.2415 N 1,708,764.0946 E 2,297,020.5306
Delta = 0° 17' 37.1732" (LT)
Degree = 0° 01' 45.7175"
Tangent = 500.0000
Length = 999.9978
Radius = 195,109.3373
External = 0.6407
Long Chord = 999.9967
Mid. Ord. = 0.6407
P.C. Station 760+31.2415 N 1,708,264.1133 E 2,297,016.2004
P.T. Station 770+31.2393 N 1,709,264.0914 E 2,297,022.2981
C.C. N 1,709,953.8209 E 2,101,914.1800
Back = 0° 29' 46.3397"
Ahead = 0° 12' 09.1666"
Chord Bear = 0° 20' 57.7531"

Course from PT 240 to 250 0° 12' 09.1666" Dist 9,713.4707

Point 250 N 1,718,977.5015 E 2,297,056.6362 Sta 867+44.7101

Course from 250 to PC 260 0° 20' 15.9982" Dist 5,457.6237

Curve Data

Curve 260
P.I. Station 924+00.3603 N 1,724,633.0535 E 2,297,089.9779
Delta = 11° 59' 46.4759" (RT)
Degree = 3° 02' 24.2203"
Tangent = 198.0266
Length = 394.6053
Radius = 1,884.6917
External = 10.3749
Long Chord = 393.8849
Mid. Ord. = 10.3181
P.C. Station 922+02.3337 N 1,724,435.0303 E 2,297,088.8104
P.T. Station 925+96.9391 N 1,724,826.5094 E 2,297,132.2784
C.C. N 1,724,423.9195 E 2,298,973.4693
Back = 0° 20' 15.9982"
Ahead = 12° 20' 02.4741"
Chord Bear = 6° 20' 09.2362"

Course from PT 260 to PC 270 12° 20' 02.4741" Dist 3,040.8219

HORIZONTAL AND VERTICAL CONTROL

Curve Data

Curve 270
P.I. Station 958+89.5426 N 1,728,043.1161 E 2,297,835.6131
Delta = 0° 37' 37.5029" (LT)
Degree = 0° 07' 28.3102"
Tangent = 251.7816
Length = 503.5582
Radius = 46,009.3944
External = 0.6889
Long Chord = 503.5557
Mid. Ord. = 0.6889
P.C. Station 956+37.7610 N 1,727,797.1459 E 2,297,781.8299
P.T. Station 961+41.3192 N 1,728,289.6602 E 2,297,886.7010
C.C. N 1,737,625.2352 E 2,252,834.3824
Back = 12° 20' 02.4741"
Ahead = 11° 42' 24.9713"
Chord Bear = 12° 01' 13.7227"

Course from PT 270 to 280 11° 42' 24.9713" Dist 1,877.4576

Point 280 N 1,730,128.0634 E 2,298,267.6482 Sta 980+18.7768

Course from 280 to PC 290 11° 44' 24.7293" Dist 3,762.5977

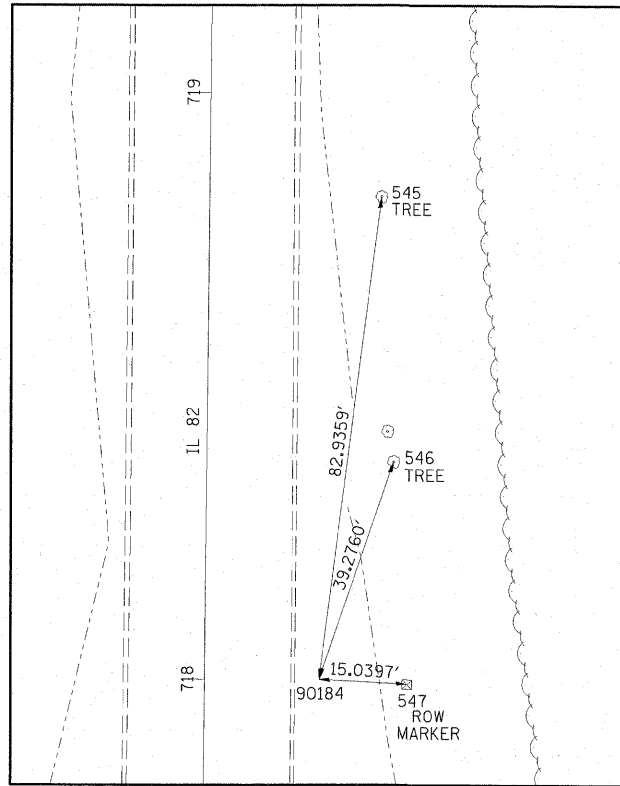
Curve Data

Curve 290
P.I. Station 1020+46.4385 N 1,734,071.4676 E 2,299,087.1740
Delta = 15° 39' 04.6343" (LT)
Degree = 2° 58' 15.0800"
Tangent = 265.0641
Length = 526.8276
Radius = 1,928.5953
External = 18.1299
Long Chord = 525.1911
Mid. Ord. = 17.9610
P.C. Station 1017+81.3744 N 1,733,811.9485 E 2,299,033.2402
P.T. Station 1023+08.2020 N 1,734,335.9144 E 2,299,069.0944
C.C. N 1,734,204.3682 E 2,297,144.9906
Back = 11° 44' 24.7293"
Ahead = 356° 05' 20.0949"
Chord Bear = 3° 54' 52.4121"

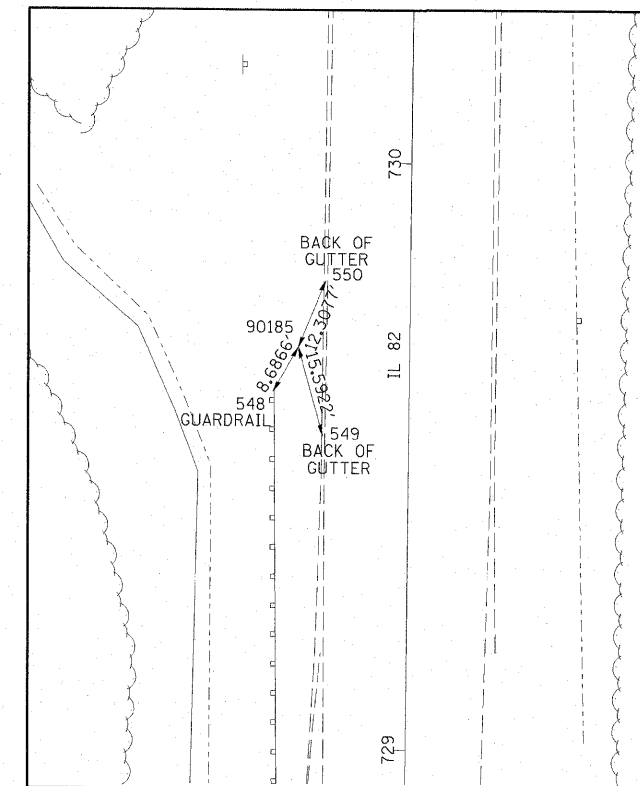
Course from PT 290 to 10 356° 05' 20.0949" Dist 1,628.2647

Point 10 N 1,735,960.3870 E 2,298,958.0332 Sta 1039+36.4667

Ending chain IL82 description



HORIZONTAL CONTROL POINT NO. 90184



HORIZONTAL CONTROL POINT NO. 90185

HORIZONTAL CONTROL POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
90184	1704033.0300	2296999.1110	717.2680	IL82	718+00.1689	19.5537 RT	PIN
90185	1705201.6500	2296970.6550	685.7700	IL82	729+68.4986	19.0219 LT	PIN

BENCH MARKS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
484	1704027.1150	2296938.3420	721.5690	IL82	717+93.7278	41.1618 LT	RIGHT OF WAY MARKER
485	1705247.8410	2296958.7030	684.3210	IL82	730+14.5844	31.3734 LT	FENCE POST

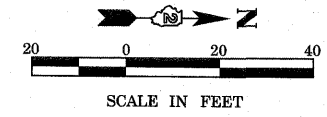
REFERENCE TIES				
POINT	CHAIN	STATION	OFFSET	DESCRIPTION
545	IL82	718+82.5239	29.3528	DECIDUOUS TREE
546	IL82	718+37.4542	31.8993	DECIDUOUS TREE
547	IL82	717+99.4200	34.5747	RIGHT OF WAY MARKER
548	IL82	729+60.9029	-23.2362	STEEL PLATE BEAM GUARDRAIL
549	IL82	729+53.5185	-14.6960	BACK OF GUTTER
550	IL82	729+79.9315	-14.4647	BACK OF GUTTER



PLAN	SUBMITTED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	NOTE BOOK	
	NO.	
	CADD FILE NAME	
	NO.	

PROFILE	SUBMITTED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	

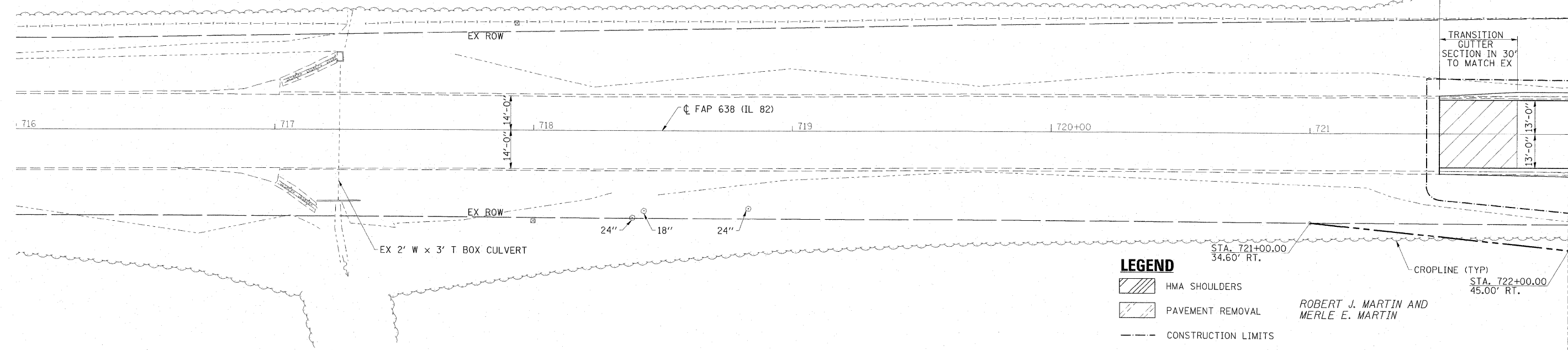
SECTION 29, T16N, R3E, 4TH PM



STA. 721+50
IMPROVEMENTS
BEGIN
BUTT JOINT

TRANSITION
GUTTER
SECTION IN 30'
TO MATCH EX

MATCH LINE STA 722+00
SEE SHT. 33 FOR CONT.

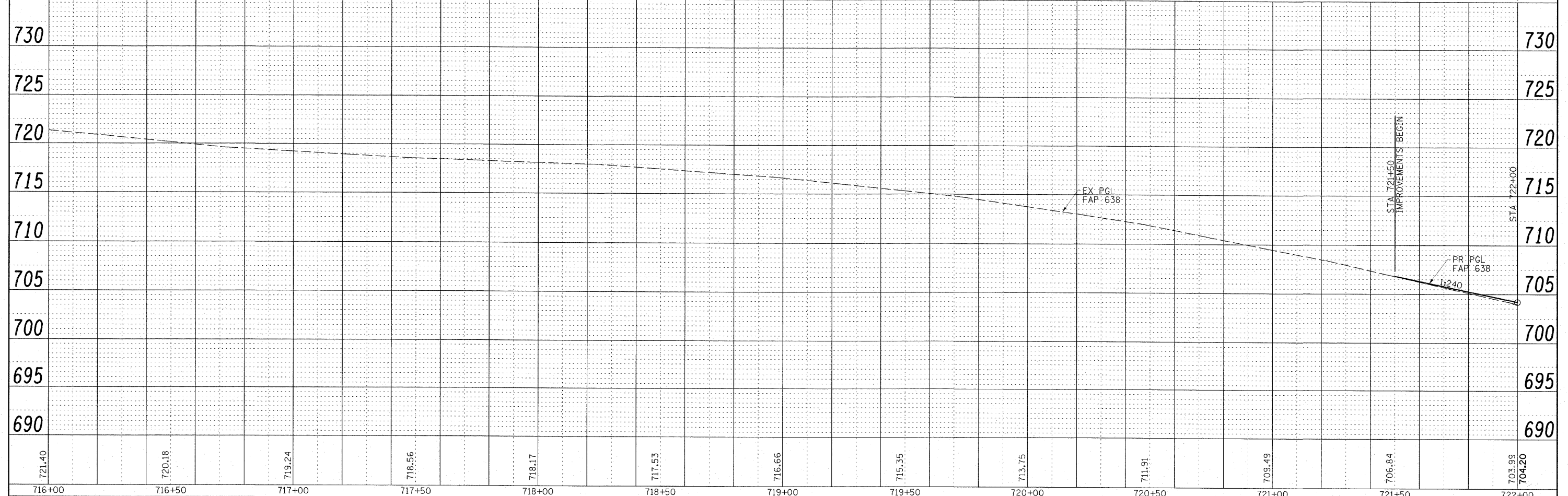


LEGEND

- HMA SHOULDERS
- PAVEMENT REMOVAL
- CONSTRUCTION LIMITS
- HMA SURFACE REMOVAL - BUTT JOINT

ROBERT J. MARTIN AND
MERLE E. MARTIN

SECTION 28, T16N, R3E, 4TH PM



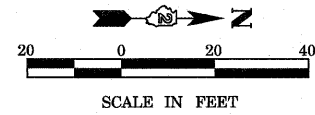
FILE NAME = D264428-sht-plnprf01.dgn	USER NAME = HAS	DESIGNED - JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAP 638 (IL 82) PLAN AND PROFILE STA 716+00 TO STA 722+00	F.A.P. RTE. 638	SECTION 136BR-1	COUNTY HENRY	TOTAL SHEETS 67	SHEET NO. 32
SCALES: (HORIZ) 1"=20' (VERT) 1"=5'	PLOT SCALE = 20:1 465' / IN.	CHECKED - ELH	REVISED -			CONTRACT NO. 64428				
PLOT DATE = 3/23/2009 12:58:46 PM	DATE = 3/13/09	REVISED -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
						SCALE: 1"=20'-0" SHEET NO. 1 OF 3 SHEETS STA. 716+00 TO STA. 722+00				



PLAN	REVIEWED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	

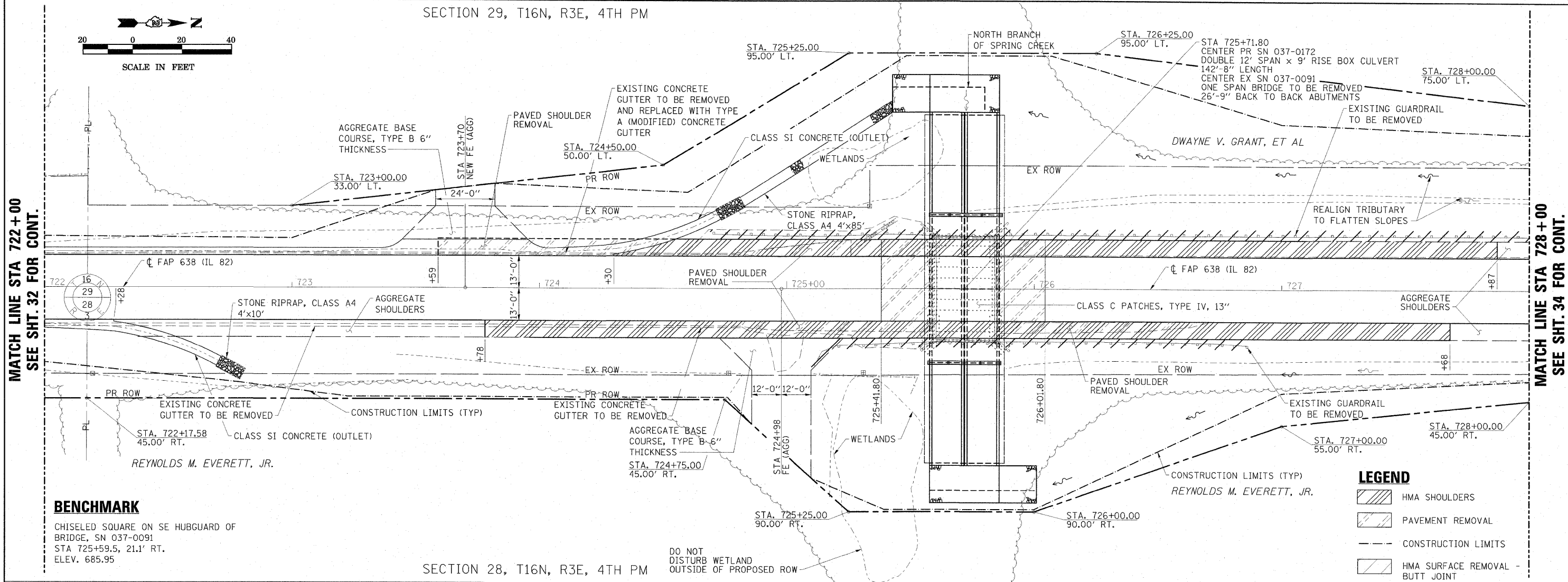
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	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	

SECTION 29, T16N, R3E, 4TH PM



MATCH LINE STA 722+00
SEE SHT. 32 FOR CONT.

MATCH LINE STA 728+00
SEE SHT. 34 FOR CONT.



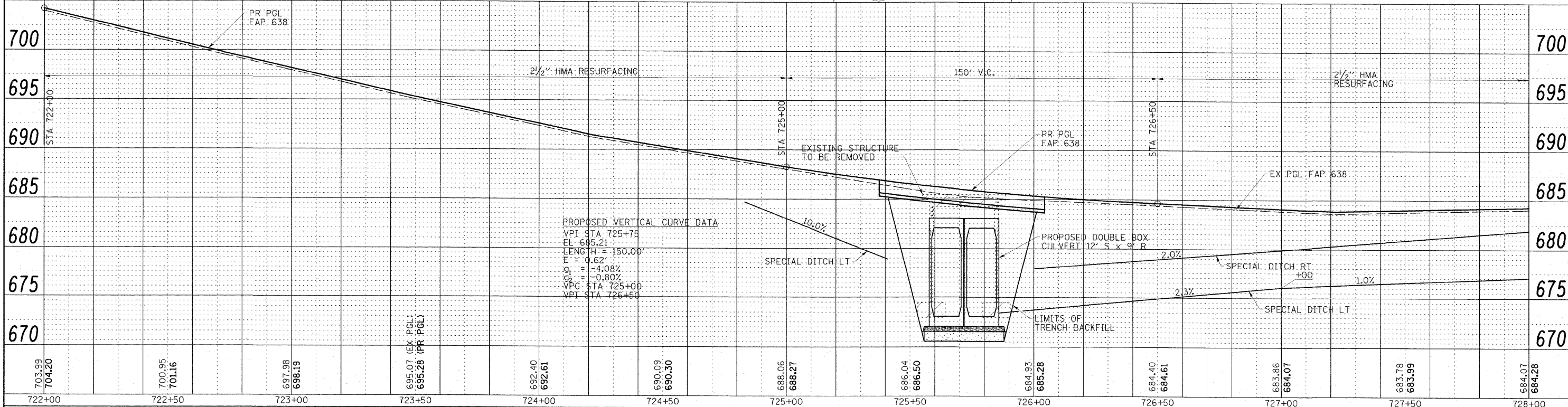
BENCHMARK

CHISELED SQUARE ON SE HUBGUARD OF BRIDGE, SN 037-0091
STA 725+59.5, 21.1' RT.
ELEV. 685.95

LEGEND

	HMA SHOULDERS
	PAVEMENT REMOVAL
	CONSTRUCTION LIMITS
	HMA SURFACE REMOVAL - BUTT JOINT

SECTION 28, T16N, R3E, 4TH PM



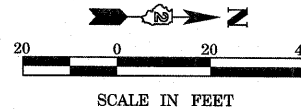
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PLOT SCALE = 20/1465' / IN.	DRAWN - JPC	CHECKED - ELH	REVISED -		CONTRACT NO. 64428				
PLOT DATE = 3/23/2009 12:59:15 PM	DATE - 3/13/09	REVISED -	REVISED -		FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				
SCALES: (HORIZ) 1"=20'-0" (VERT) 1"=5'					SCALE: 1"=20'-0" SHEET NO. 2 OF 3 SHEETS STA. 722+00 TO STA. 728+00				



DATE	
BY	
REVISIONS	
NO.	
PLAN	
NO.	
NOTE BOOK	
NO.	
ALIGNED	
CHECKED	
FILE NAME	

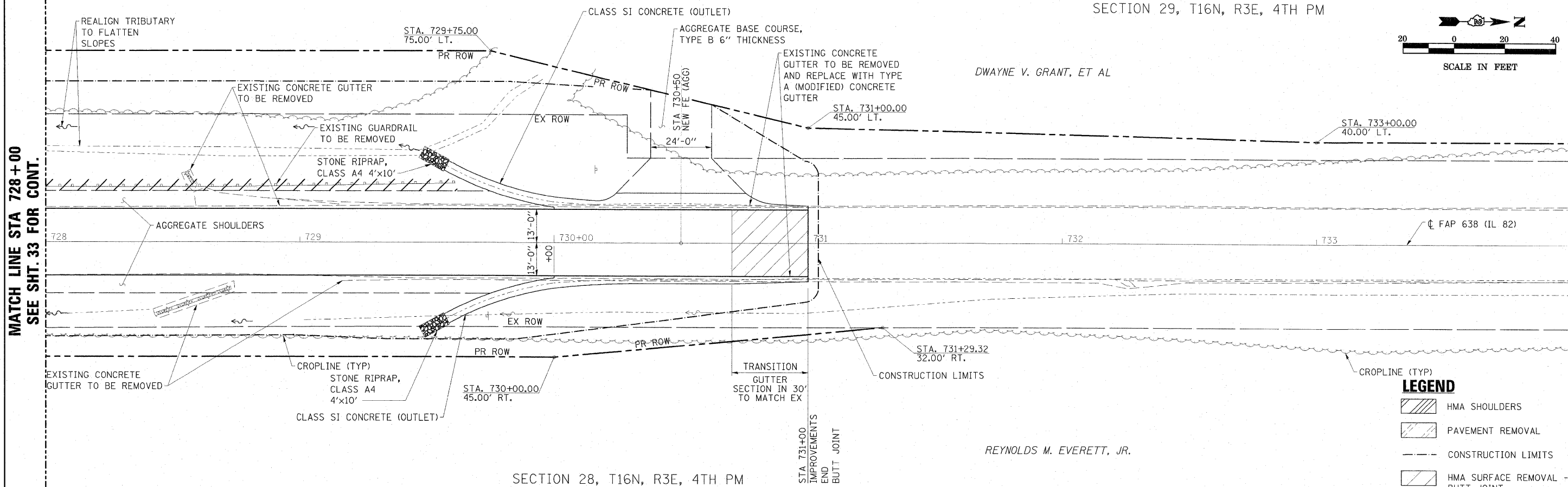
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BY	
REVISIONS	
NO.	
PROFILE	
NO.	
NOTE BOOK	
NO.	
GRADES CHECKED	
STRUCTURE NOTATIONS CHD	

SECTION 29, T16N, R3E, 4TH PM



DWAYNE V. GRANT, ET AL

MATCH LINE STA 728+00
SEE SHT. 33 FOR CONT.

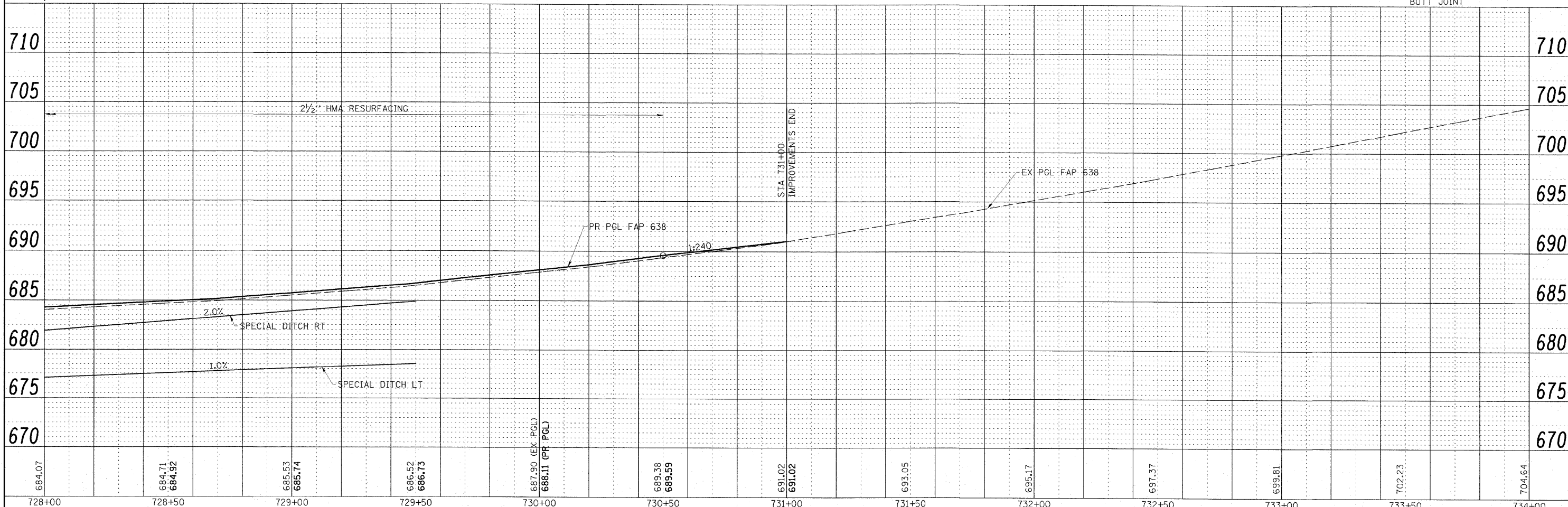


SECTION 28, T16N, R3E, 4TH PM

REYNOLDS M. EVERETT, JR.

LEGEND

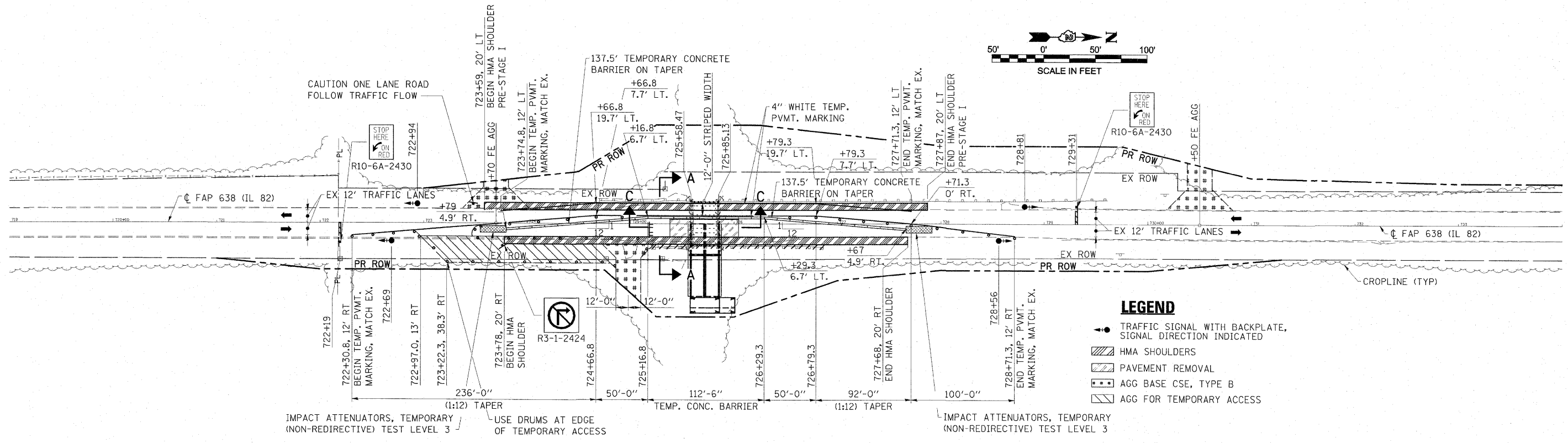
- HMA SHOULDERS
- PAVEMENT REMOVAL
- CONSTRUCTION LIMITS
- HMA SURFACE REMOVAL - BUTT JOINT



FILE NAME = 0264428-sht-plnprf01.dgn	USER NAME = HAS	DESIGNED - JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FAP 638 (IL 82) PLAN AND PROFILE STA 728+00 TO STA 734+00	F.A.P. RTE. 638	SECTION 136BR-1	COUNTY HENRY	TOTAL SHEETS 67	SHEET NO. 34		
SCALE: (HORIZ) 1"=20'-0" (VERT) 1"=5'	PLOT DATE = 3/23/2009 12:59:27 PM	CHECKED - ELH	REVISED -			SCALE: 1"=20'-0"	SHEET NO. 3 OF 3 SHEETS	STA. 728+00 TO STA. 734+00	CONTRACT NO. 64428			
		DATE - 3/13/09	REVISED -			FED. ROAD DIST. NO. [] ILLINOIS FED. AID PROJECT						

GENERAL NOTES

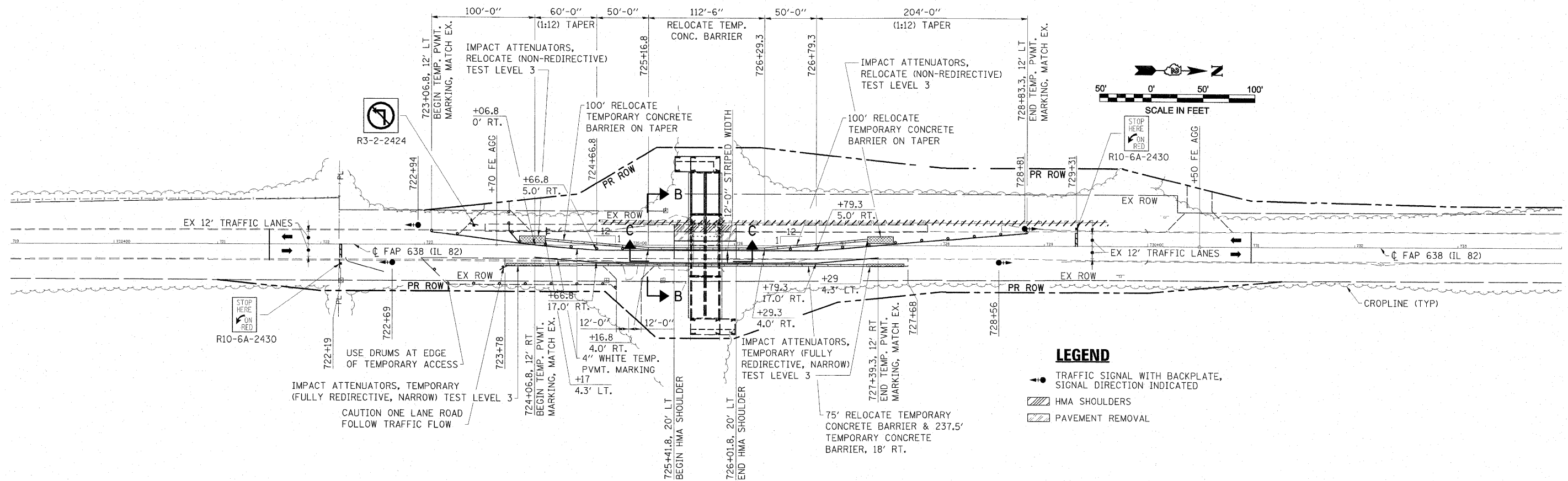
1. TRAFFIC CONTROL SHALL BE ERECTED AS SHOWN AND ACCORDING TO "TRAFFIC CONTROL AND PROTECTION, STANDARD 701321."
2. SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.
3. COORDINATE LOCATION OF SIGNALS WITH FINAL WORK AS DIRECTED BY THE ENGINEER.
4. CONSTRUCT TEMPORARY RUMBLE STRIPS AT LOCATIONS SHOWN ON STANDARD 701321.
5. ADDITIONAL SIGNAGE AND BARRICADES SHOWN FOR SIDE-ROADS AND ENTRANCES SHALL BE INCLUDED IN THE COST OF STANDARD 701321.



FILE NAME = 0264428-sh1-staging01.dgn	USER NAME = H4S	DESIGNED - JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE I CONSTRUCTION	F.A.P. RTE. = 638	SECTION = 136BR-1	COUNTY = HENRY	TOTAL SHEETS = 67	SHEET NO. = 35
	PLOT SCALE = 0.2839" / IN.	CHECKED - ELH	REVISED -			SCALE: 1"=50'-0"	SHEET NO. 1 OF 1 SHEETS	STA. 719+00 TO STA. 734+00	CONTRACT NO. 64428	
PLOT DATE = 3/24/2009 6:17:14 AM	DATE = 3/20/09	REVISED -	REVISED -	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						

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.
4. CONSTRUCT TEMPORARY RUMBLE STRIPS AT LOCATIONS SHOWN ON STANDARD 701321.
5. ADDITIONAL SIGNAGE AND BARRICADES SHOWN FOR SIDE-ROADS AND ENTRANCES SHALL BE INCLUDED IN THE COST OF STANDARD 701321.



LEGEND

- TRAFFIC SIGNAL WITH BACKPLATE, SIGNAL DIRECTION INDICATED
- ▨ HMA SHOULDERS
- ▨ PAVEMENT REMOVAL

FILE NAME = 0264428-sht-staging02.dgn
USER NAME = HAS

DESIGNED - JMS
DRAWN - JPC
CHECKED - ELH
DATE - 3/20/09

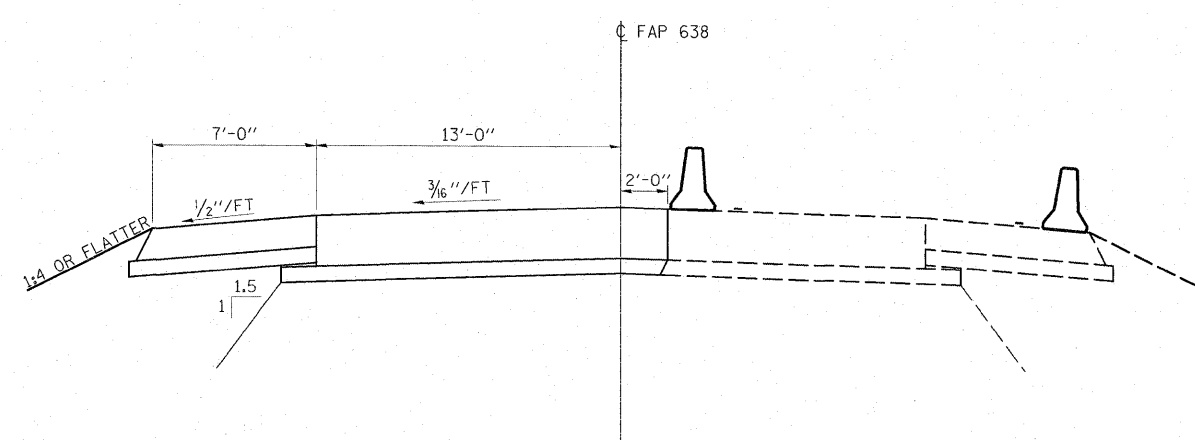
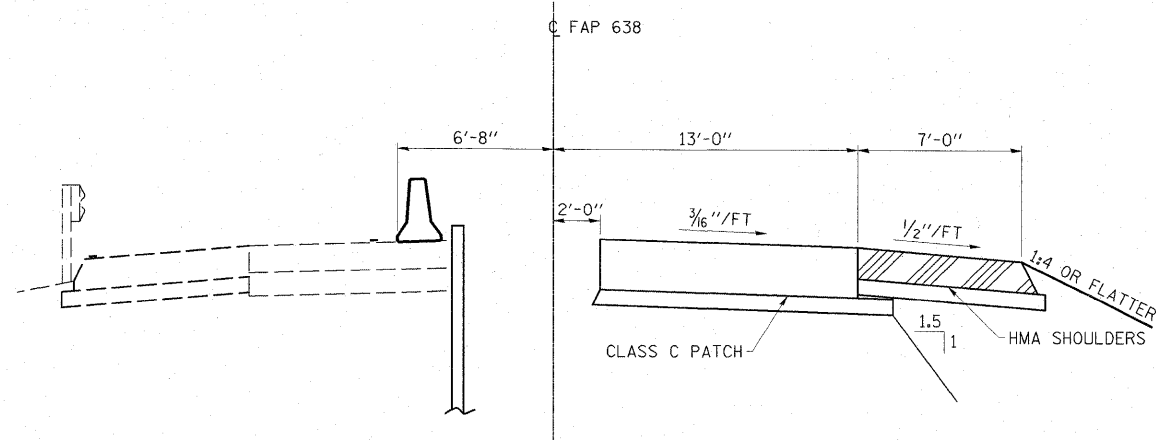
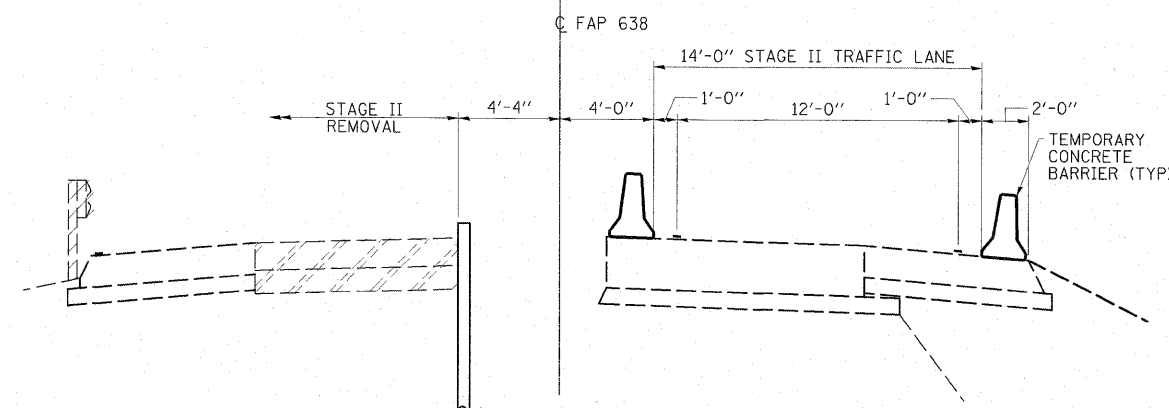
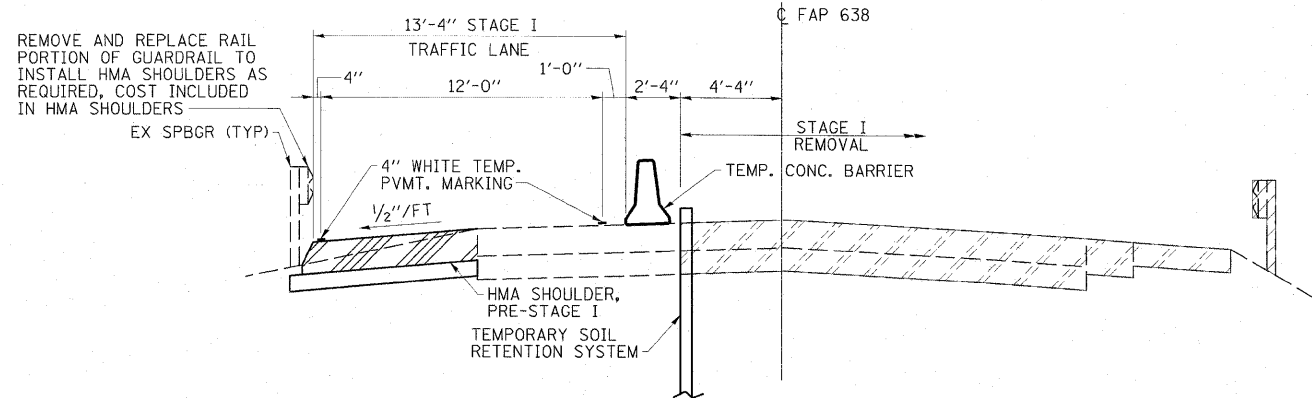
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE II CONSTRUCTION

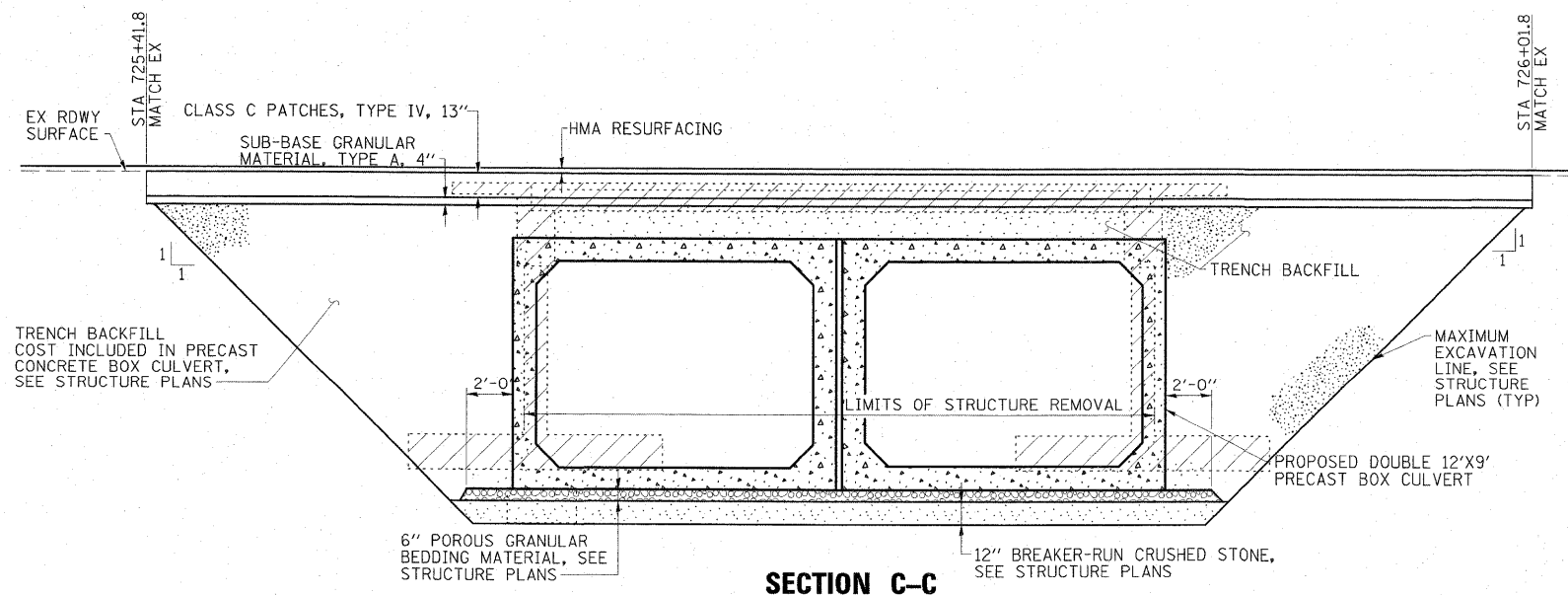
SCALE: 1"=50'-0" SHEET NO. 1 OF 1 SHEETS STA. 719+00 TO STA. 734+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	136BR-1	HENRY	67	36
CONTRACT NO. 64428				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**SECTION A-A
(STAGE I)**

**SECTION B-B
(STAGE II)**



SECTION C-C

FILE NAME = 0264428-sh1-deta1.s01.dgn

USER NAME = HAS

DESIGNED - JMS
DRAWN - JPC
CHECKED - ELH
DATE - 3/13/09

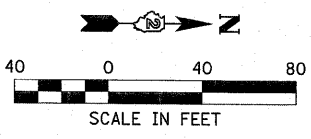
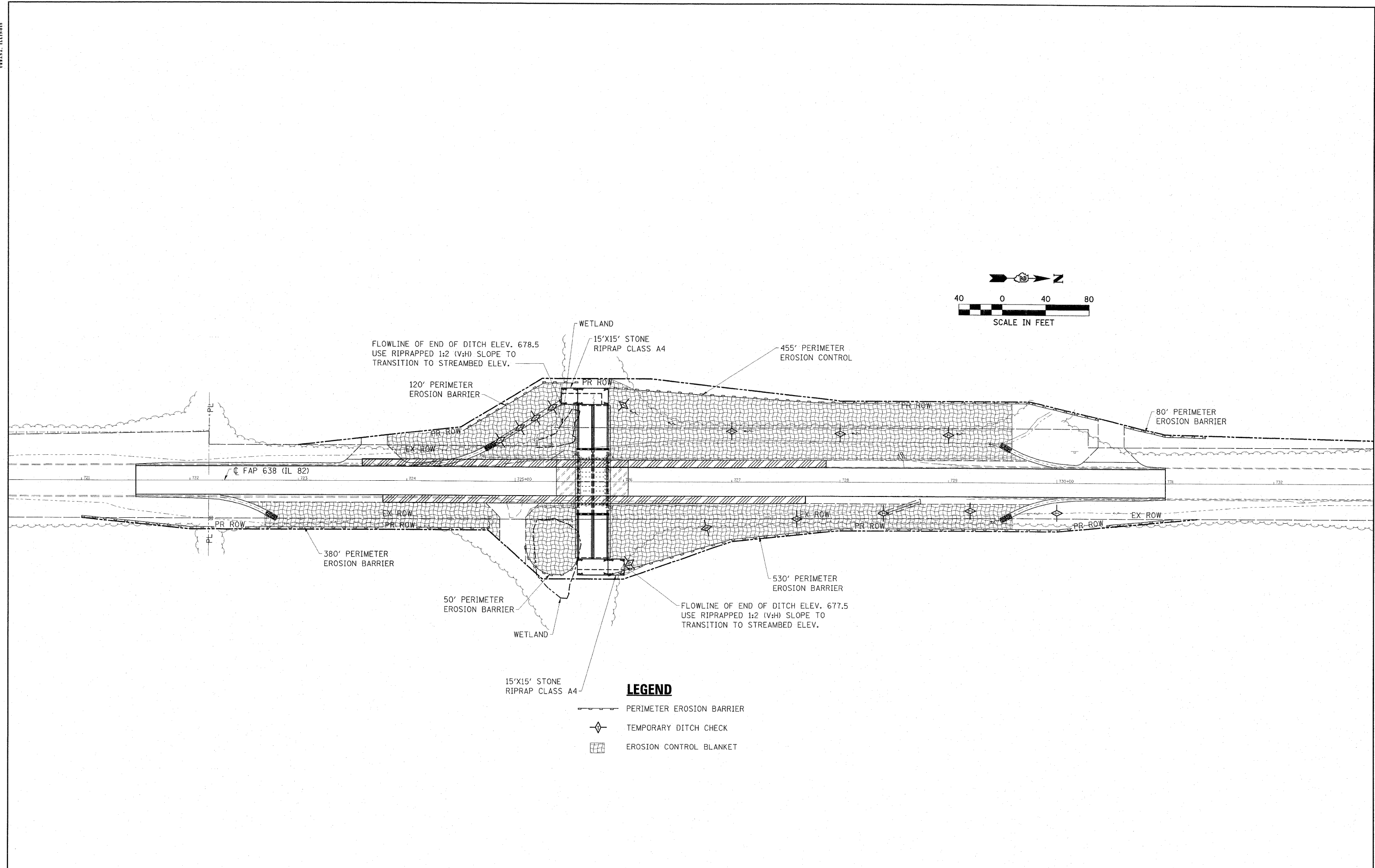
REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

STAGE CONSTRUCTION DETAILS

SCALE: 1/4"=1'-0" SHEET NO. 1 OF 1 SHEETS STA. TO STA.

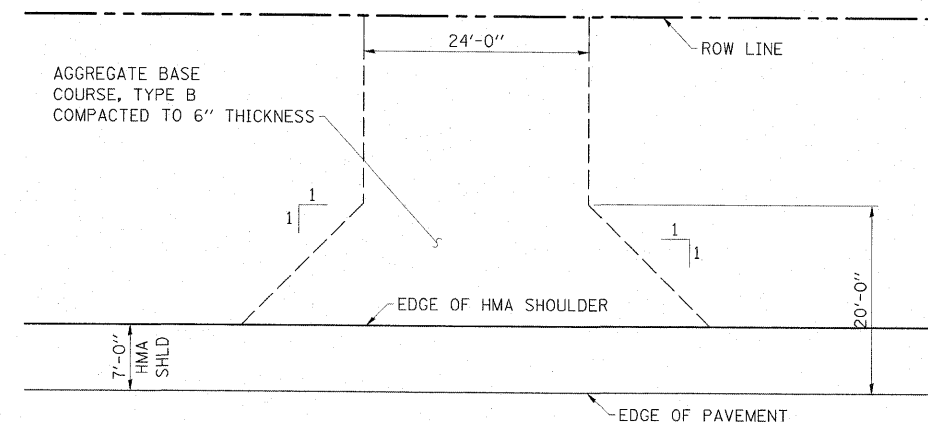
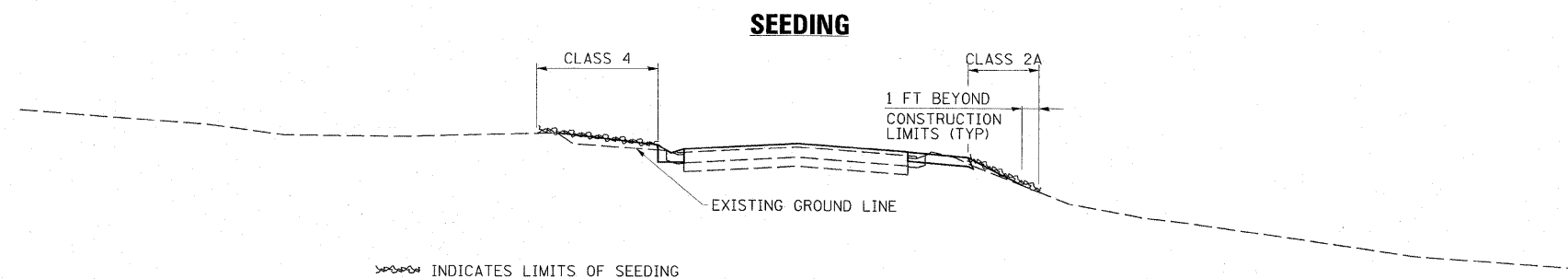
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	136BR-1	HENRY	67	37
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 64428	



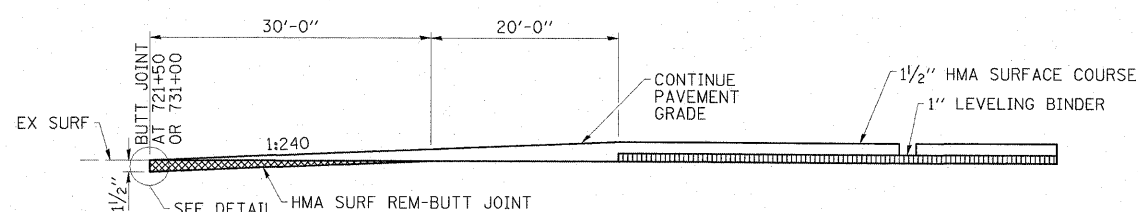
LEGEND

- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECK
- EROSION CONTROL BLANKET

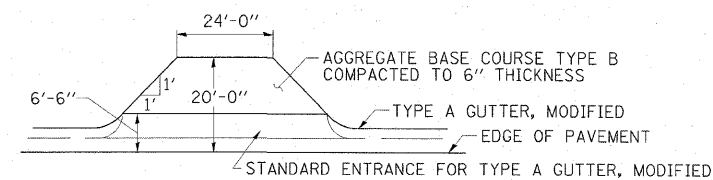
USER NAME = HAS	DESIGNED - JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL AND DRAINAGE PLAN	F.A.P. RTE. 638	SECTION 136BR-1	COUNTY HENRY	TOTAL SHEETS 67	SHEET NO. 38		
PLOT SCALE = 0.0039" = 1' ON	DRAWN - JPC	REVISED -			SCALE: 1" = 40'-0"	SHEET NO. 1 OF 1 SHEETS	STA. 720+00	TO STA. 733+00	CONTRACT NO. 64428		
PLOT DATE = 3/23/2009 1:05:00 PM	CHECKED - ELH	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						
	DATE - 3/13/09	REVISED -									



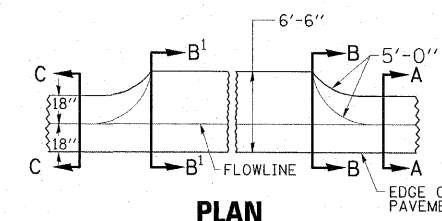
FIELD ENTRANCE AT HMA SHOULDER



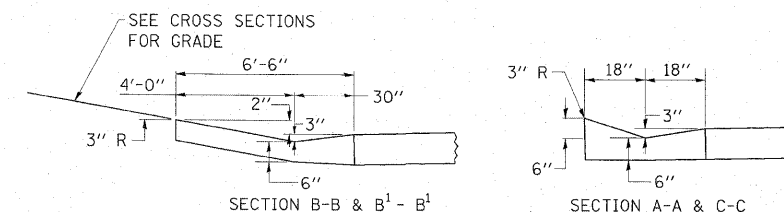
TYPICAL BUTT JOINT SECTION
SN 037-0172



FIELD ENTRANCE AT GUTTER



PLAN

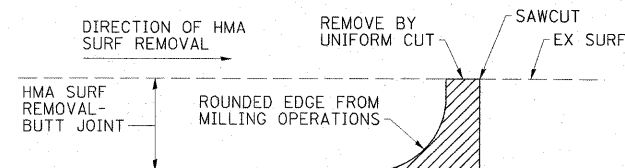


QUANTITIES

SECTION B-B TO B¹-B¹ = 0.13 CU. YD. PER LINEAL FOOT
SECTION C-C TO B¹-B¹ + B-B TO A-A = 0.85 CU. YD.

NOTE:

THE GUTTER ENTRANCE WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR CLASS SI CONCRETE (OUTLET)



DETAIL AT BUTT JOINT

NOTE:
WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAWCUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE COST OF ALL WORK SHOWN IN THE DETAIL IS INCLUDED IN HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL.

FILE NAME = D264428-sht-detail1.dgn	USER NAME = HAS	DESIGNED - JMS	REVISED -
		DRAWN - JPC	REVISED -
		CHECKED - ELH	REVISED -
		DATE - 03/13/09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS DETAILS

SCALE: VARIOUS SHEET NO. 1 OF 1 SHEETS STA. TO STA.

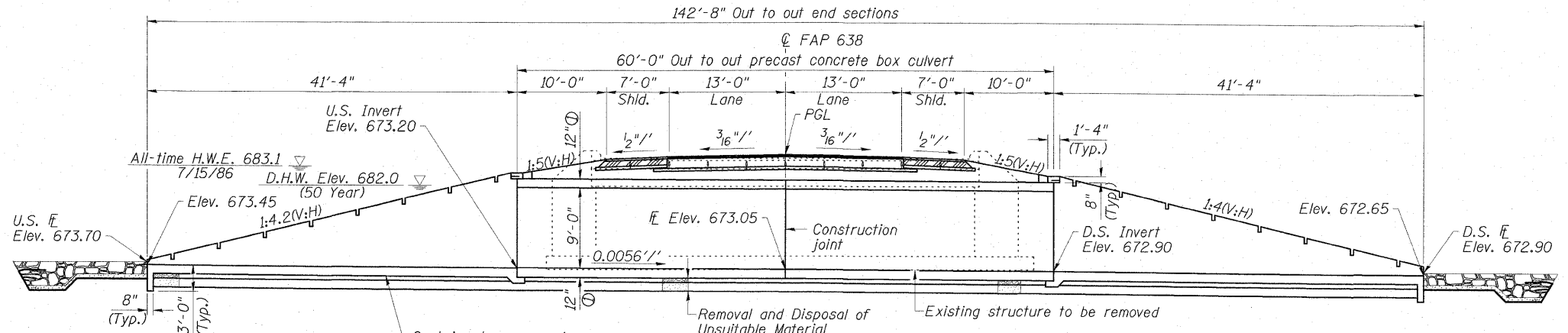
F.A.P. RTE. 638	SECTION 136BR-1	COUNTY HENRY	TOTAL SHEETS 67	SHEET NO. 39
CONTRACT NO. 64428				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BENCHMARK: Chiseled square on SE hubguard of bridge, SN 037-0091
Sta. 725+59.5, 21.1' Rt.
Elev. 685.95

EXISTING STRUCTURE:
SN 037-0091 was originally built in 1927 as Section 136. The superstructure originally consisted of a concrete slab superstructure on closed abutments. The superstructure was replaced with ten, 4'-4" wide, 11" thick PPC deck beams in 1974 as Section 136BR. The deck width is 43'-4", and the length is 26'-9" back to back of abutments. The existing structure is to be removed and replaced. One lane of traffic will be maintained utilizing stage construction.

No salvage.

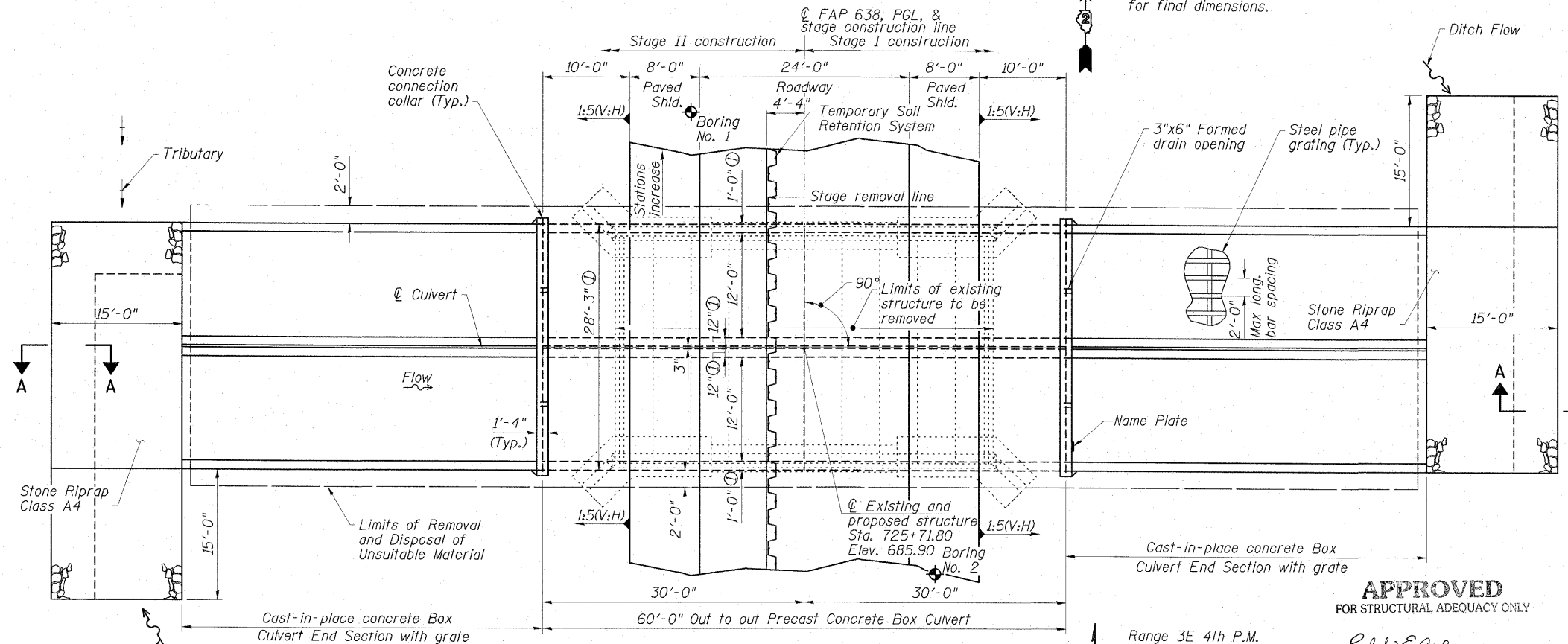


STRUCTURE INDEX OF SHEETS

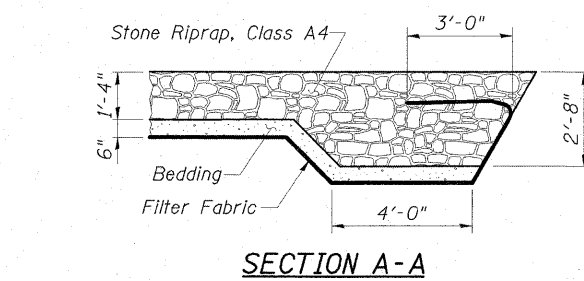
General Plan	Sheet No. 1 of 7
General Data	Sheet No. 2 of 7
Stage Construction Details	Sheet No. 3 of 7
Box Culvert Details	Sheet Nos. 4 & 5 of 7
Soil Boring Logs	Sheet No. 6 of 7
Temporary Concrete Barrier	Sheet No. 7 of 7

LONGITUDINAL SECTION
(Looking North)

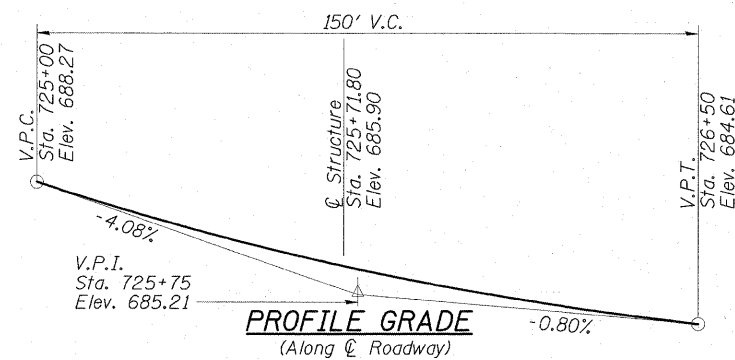
① Thickness of precast culvert walls and slabs shall be verified on shop drawings and coordinated for final dimensions.



PLAN



SECTION A-A



PROFILE GRADE
(Along Centerline of Roadway)

WATERWAY INFORMATION

Drainage Area = 2.65 Sq. Mi.		Exist. Low Grade Elev. = 683.76 Ft. @ Sta. 727+70		Prop. Low Grade Elev. = 683.97 Ft. @ Sta. 727+70					
Flood	Frequency Year	Discharge (cfs)	Waterway Opening (Sq. Ft.)		Nat. H.W.E.	Head (Ft.)		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	602	154	194	681.3	0.1	0.0	681.4	681.3
Base	50	967	171	211	682.0	0.4	0.1	682.4	682.1
Overtopping	100	1127	176	216	682.2	0.5	0.3	682.7	682.5
Max Calc.	340	1447	186	-	682.6	0.9	-	683.5	-
	500	1515	-	216	682.6	-	0.8	-	683.4

DESIGN SPECIFICATIONS

2002 AASHTO
LOADING HS20-44
Allow 50 psf for future wearing surface.

DESIGN STRESSES

FIELD UNITS

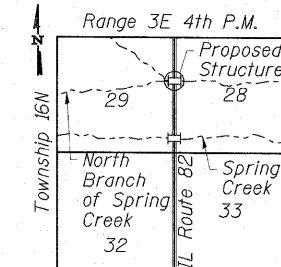
$f'_c = 3,500$ psi

$f_y = 60,000$ psi (Reinf.)

PRECAST UNITS

$f'_c = 5,000$ psi

$f_y = 65,000$ psi (WWF)



LOCATION SKETCH

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Richard E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES



EXPIRES 11-30-09

Richard D. Payne
SIGNATURE

11-21-08
DATE

GENERAL PLAN
IL 82 OVER
NORTH BRANCH OF SPRING CREEK
FAP ROUTE 638 - SECTION 136BR-1
HENRY COUNTY
STATION 725+71.80
STRUCTURE NO. 037-0172

ESCA
CONSULTANTS, INC.

DESIGNED BY:	DAJ	11/08
DRAWN BY:	cj	11/08
CHECKED BY:	ELH	03/09
APPROVED BY:	RDP	03/09

SCOUR INFORMATION

Design Scour Elevation (Ft.)	Upstream	Downstream
	670.4	669.7

SHEET NO. 1 7 SHEETS	F.A.P. RTE. 638	SECTION 136BR-1	COUNTY HENRY	TOTAL SHEETS 67	SHEET NO. 40
	CONTRACT NO. 64428				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

- Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
- Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- The Contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for removal of the superstructure.
- If the Contractor's procedure for existing deck beam removal involves placement of cranes or other heavy equipment on the existing deck beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, prepared and sealed by an Illinois Licensed Structural Engineer, verifying the structural adequacy of the beams for the proposed loads. Costs included in Removal of Existing Structures.
- Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.
- The boring logs for this structure indicate that groundwater levels may encroach on the construction limits of this culvert. It shall be the responsibility of the Contractor to control the ground water and divert the stream flow during construction in order to keep the construction area free of water. The method of controlling the water shall be subject to approval of the Engineer and the cost shall be included in the contract unit price for Precast Concrete Box Culvert 12'x9'.
- Placement and compaction of the backfill for proposed across road culverts and existing across road culverts that are removed shall conform to section 502.10 of the Standard Specifications, except that the material shall conform to Article 208.02 of the Standard Specifications, and shall be compacted to a minimum of 95% of the standard laboratory density. Any material conforming to the requirements of Article 1003.04 or 1004.05 which has been excavated from the trenches shall be used for backfilling the trenches. The excavation shall be backfilled with trench backfill material to the bottom of the proposed subgrade and as shown in the Roadway Plans. This trench backfill material will not be measured for payment, but shall be included in the contract unit price for Precast Concrete Box Culverts.
- Precast concrete box culvert slab and wall thickness are to be taken from AASHTO material specifications. If the Fabricator chooses to alter dimensions, it must be approved by the Engineer, and the calculations shall be prepared and sealed by an Illinois Licensed Structural Engineer.
- All labor and material required for the construction of the connection collar shall be included in Box Culvert End Sections.
- Box culvert end sections are to be cast-in-place. Contractor has the option of using precast end sections, but the design of the reinforcement is the Contractor's responsibility and shall be approved by the Engineer. If the Contractor elects to use precast end sections, no adjustments in costs of the end sections will be allowed.
- The precast concrete box culvert and end sections shall conform to the requirements of AASHTO M273 (design fill height < 2'-0").
- Culvert flows must be maintained throughout the project. Normal flow shall be allowed to pass at the rate it enters the jobsite. High flows shall be allowed to pass without causing damage to upstream properties.

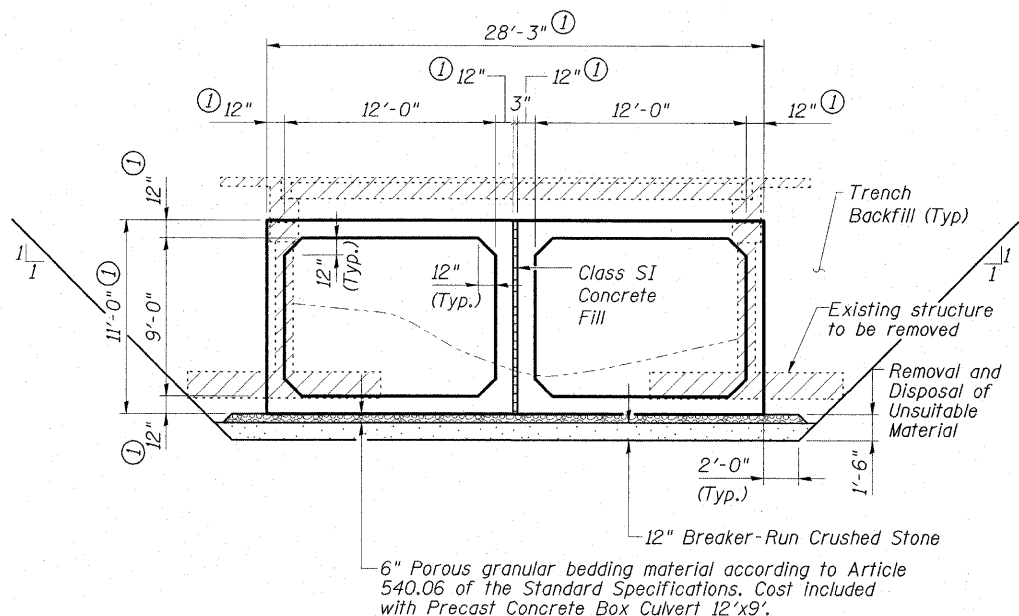
TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Stone Riprap, Class A4	Sq. Yd.	145
Filter Fabric	Sq. Yd.	145
Removal of Existing Structures No. 2	Each	1
Box Culvert End Sections	Each	2
Precast Concrete Box Culvert 12'x9' (M273)	Foot	120
Grating (Special)	Each	4
Removal and Disposal of Unsuitable Material	Cu. Yds.	265
Breaker-Run Crushed Stone	Ton	360
Name Plates	Each	1
Temporary Soil Retention System	Sq. Ft.	430
Asbestos Bearing Pad Removal	Each	20

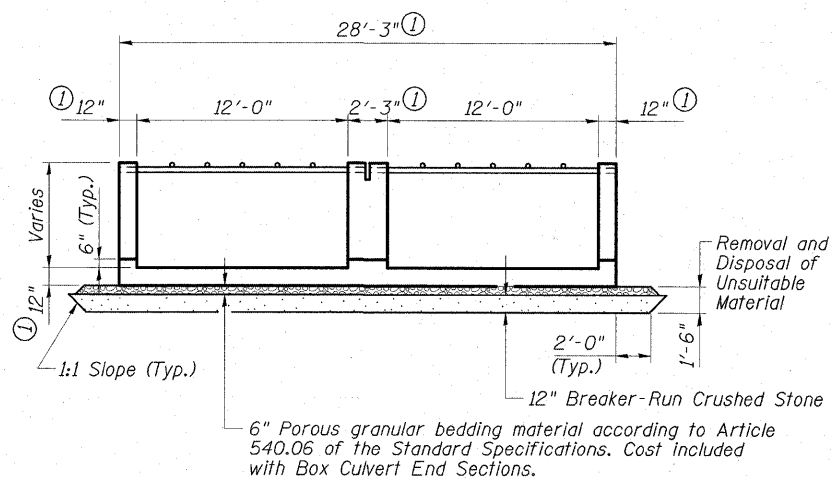
See Roadway Plans for quantities of Temporary Concrete Barrier and Excavation.

STATION 725+71.80
BUILT 200_ BY
STATE OF ILLINOIS
F.A. RT. 638 SEC. 136BR-1
LOADING HS20-44
STR. NO. 037-0172

NAME PLATE
See Std. 515001



SECTION THRU BARREL



SECTION THRU END SECTION

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

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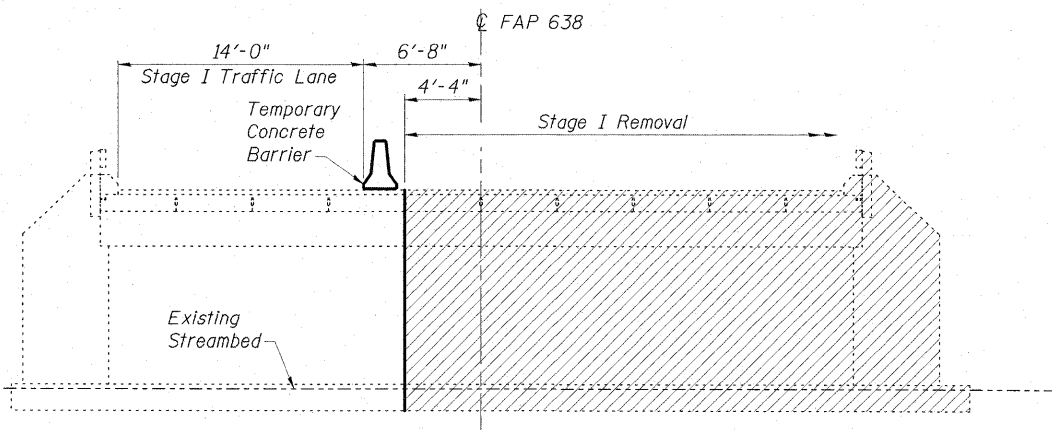
DESIGNED BY: DAJ 11/08
DRAWN BY: cj 11/08
CHECKED BY: ELH 12/08
APPROVED BY: RDP 12/08

GENERAL DATA
STRUCTURE NO. 037-0172

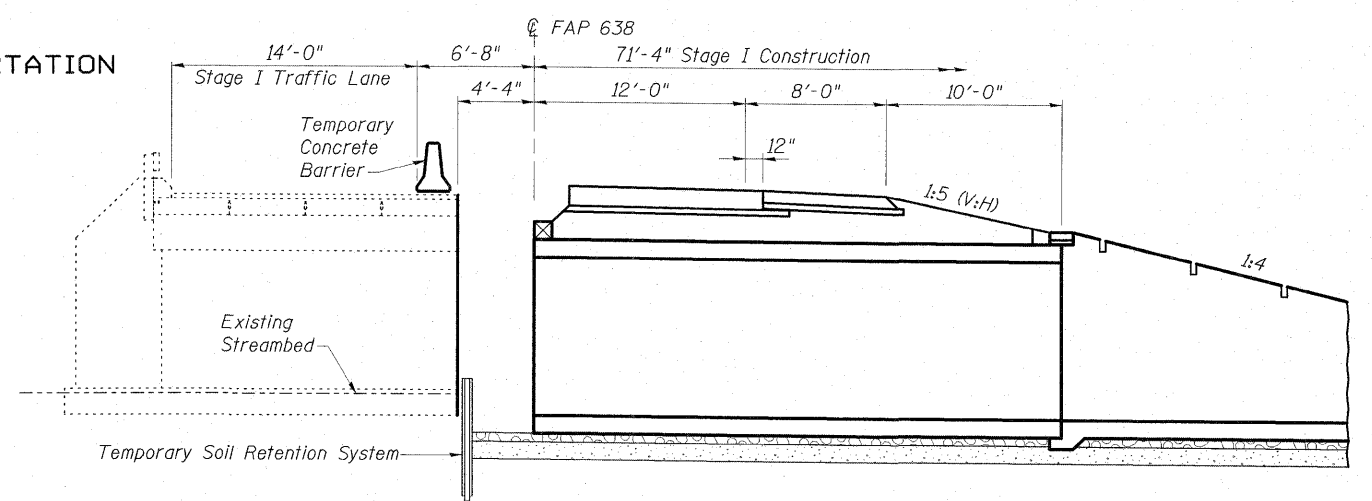
SHEET NO.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7	638	136BR-1	HENRY	67	41
			CONTRACT NO. 64428		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

03/07/12 64428-03-5.dwg 3/23/2009 10:55:55 PM HRS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



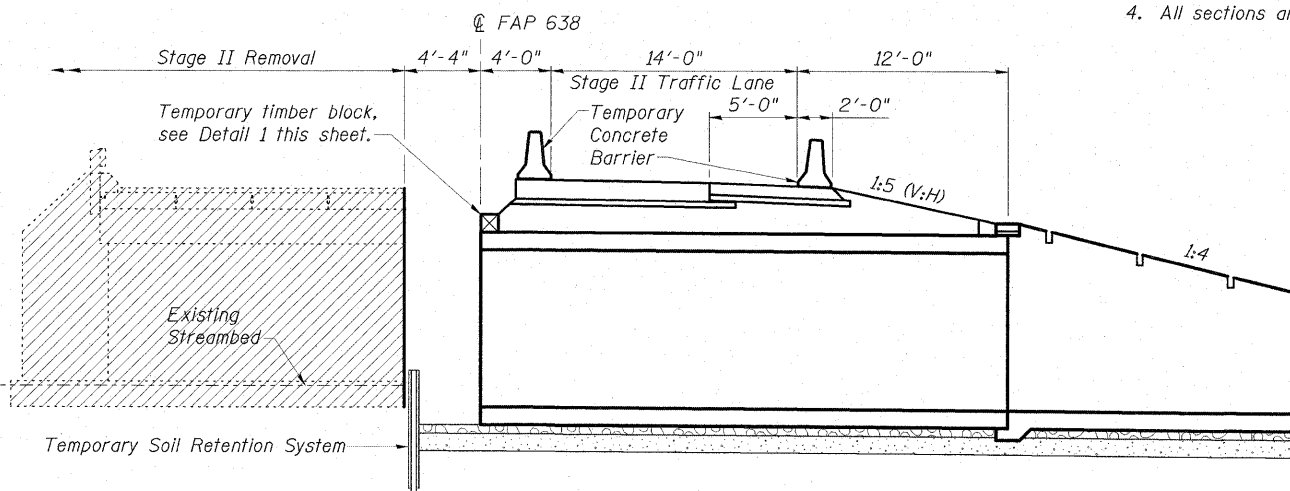
STAGE I REMOVAL



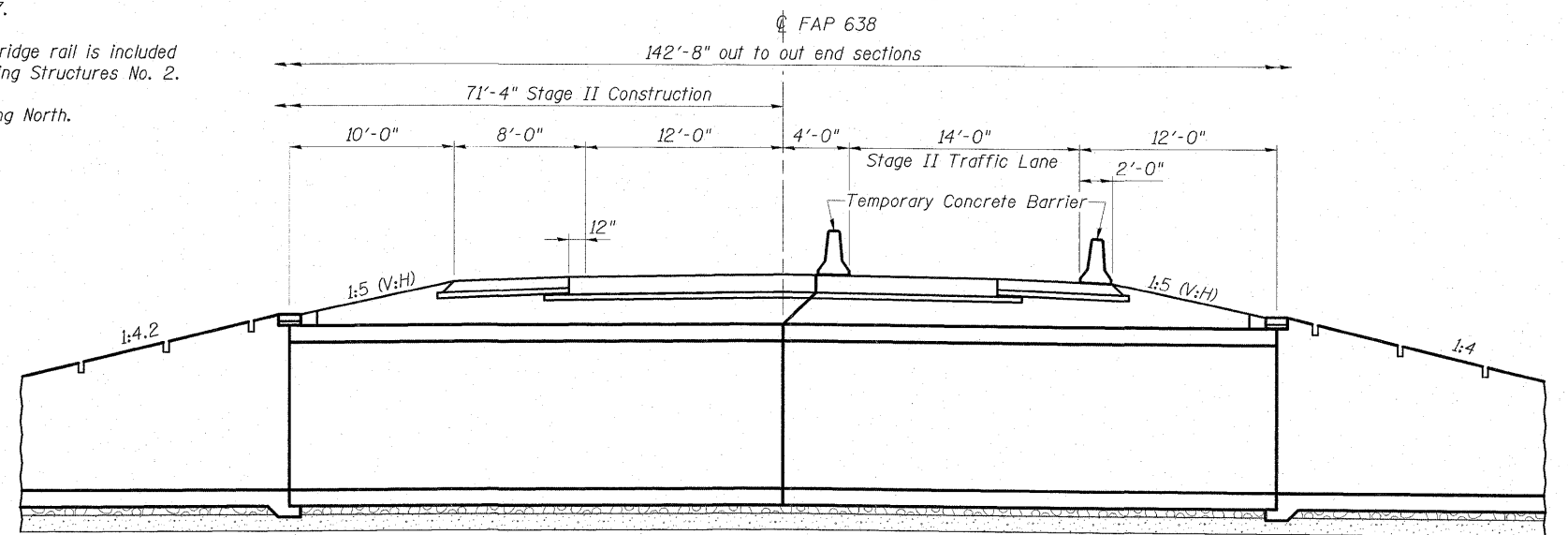
STAGE I CONSTRUCTION

STAGE CONSTRUCTION NOTES

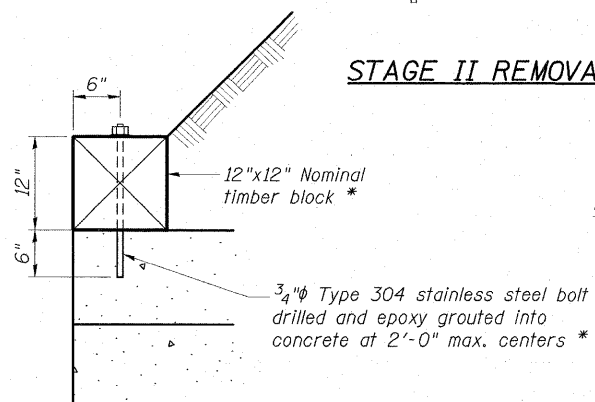
1. Hatched areas indicate Removal of Existing Structures.
2. For details of Temporary Concrete Barrier, see Sheet. No. 7 of 7.
3. Removal of existing bridge rail is included with Removal of Existing Structures No. 2.
4. All sections are looking North.



STAGE II REMOVAL

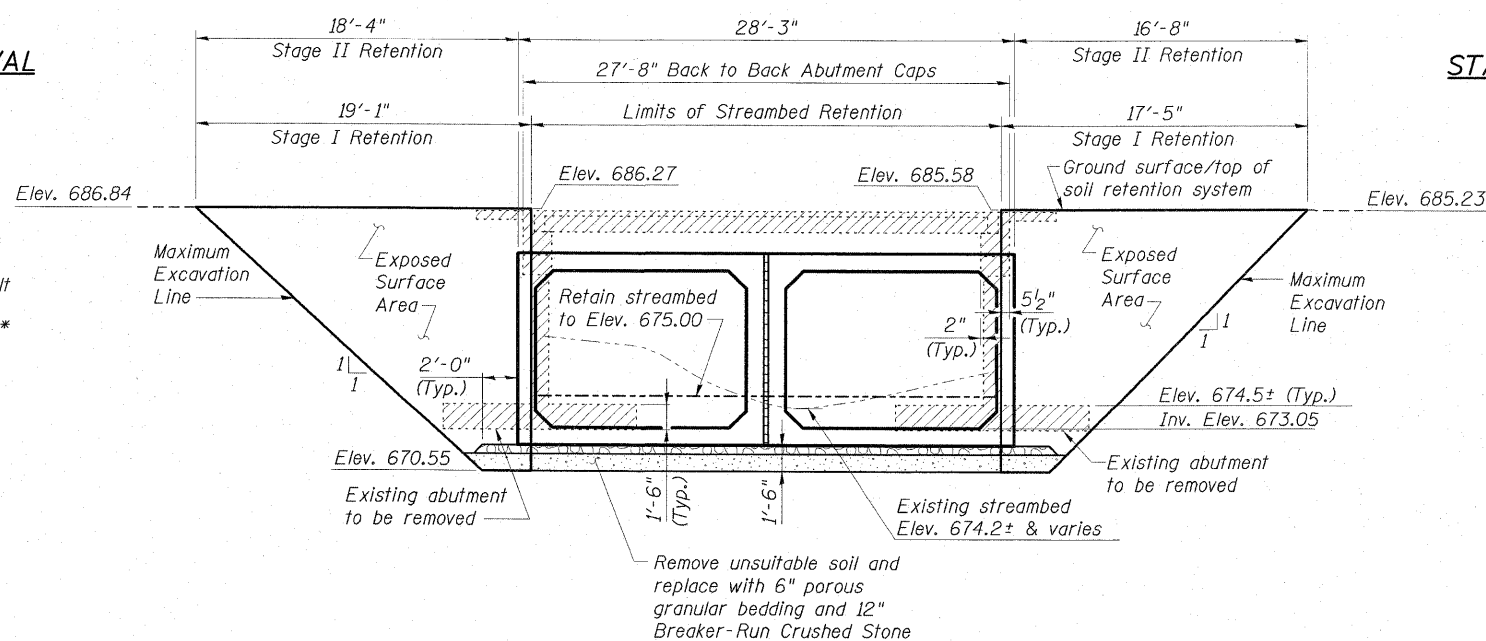


STAGE II CONSTRUCTION



DETAIL 1

* Cost of installation and removal included in Precast Concrete Box Culverts.



TEMPORARY SOIL RETENTION SYSTEM LIMITS

(Looking West)

Note: Dimensions along \mathcal{C} of FAP 638

TEMPORARY SOIL RETENTION SYSTEM NOTES

1. Existing structure details are based on the best available information from existing bridge plans.
2. 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.
3. Adjust retention lengths as necessary for actual precast box culvert dimensions.

**STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 037-0172**

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DESIGNED BY:	DAJ	11/08
DRAWN BY:	cj	11/08
CHECKED BY:	ELH	03/09
APPROVED BY:	RDP	03/09

SHEET NO. 3 7 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	638	136BR-1	HENRY	67	42
CONTRACT NO. 64428					
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

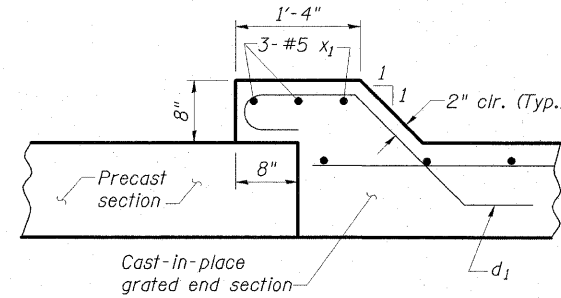
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d	56	#4	4'-6"	
d ₁	104	#4	5'-2"	
h	40	#4	27'-8"	—
h ₁	16	#4	19'-8"	—
h ₂	224	#6	21'-4"	—
h ₃	102	#6	27'-9"	—
h ₄	40	#4	21'-10"	—
u	148	#6	20'-11"	
v	144	#5	12'-2"	—
x	60	#5	1'-0"	—
x ₁	24	#5	22'-5"	
Item	Unit	Quantity		
3 1/2" Galvanized Steel Pipe	Each	20 @ 41'-11" 32 @ 14'-2"		
1/2"x4"x14" Galvanized Anchor Plate	Each	64		
5/8"x9" Galvanized Bolts	Each	160		
1/2" Galvanized Expansion Bolts	Each	128		
9" Square or Round 1/4" Galvanized Plate	Each	64		
Galvanized Steel Pipe Caps	Each	104		
Concrete Structures Reinforcement Bars	Cu. Yd. Pound	170 20600		

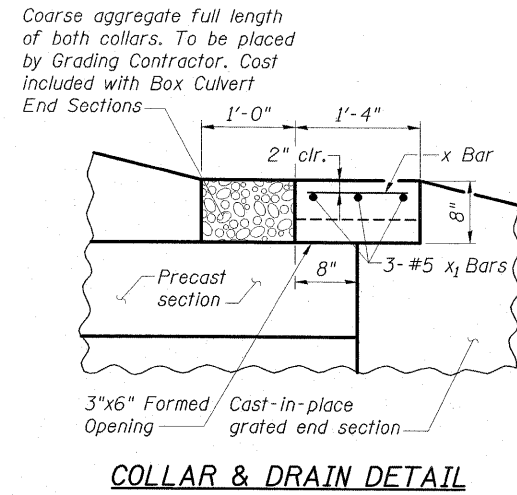
Bill of Material includes totals for both end sections. Cost to be included in Box Culvert End Sections. This bill is provided for information only and may change depending on the final dimensions of the precast box culvert walls and slabs.

MIN. BAR LAP

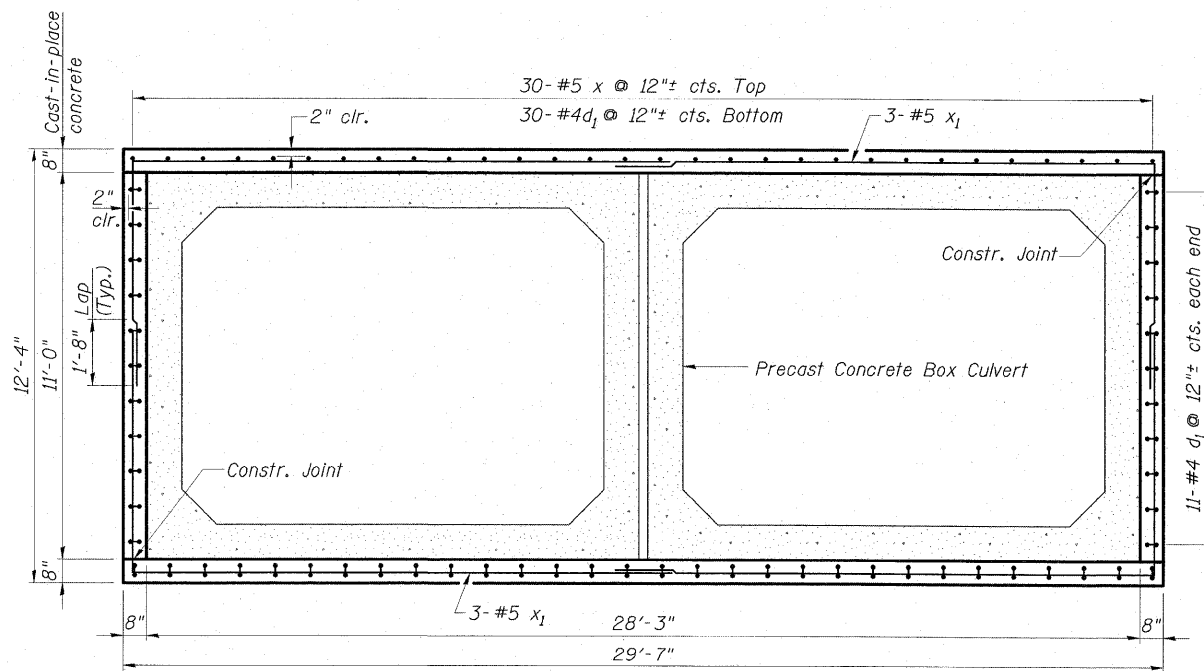
- #4.....1'-4"
- #5.....1'-8"
- #6.....2'-0"



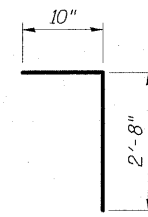
**PRECAST BOX CULVERT TO
CAST-IN-PLACE END SECTION
CONNECTION COLLAR**
(Use on bottom and each side)



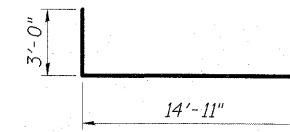
COLLAR & DRAIN DETAIL



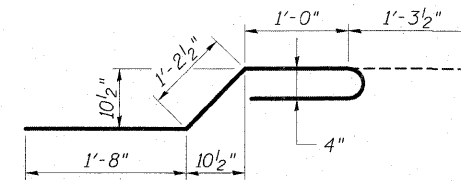
CONCRETE COLLAR SECTION



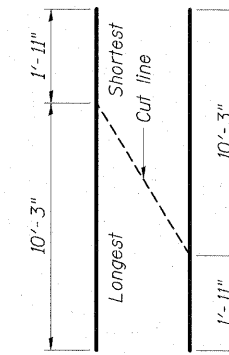
BAR d



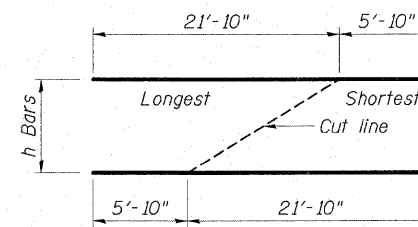
BAR u



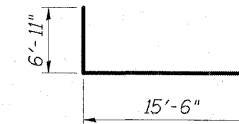
BAR d₁



**BAR v
CUT DIAGRAM**



**BAR h
CUT DIAGRAM**



BAR x₁

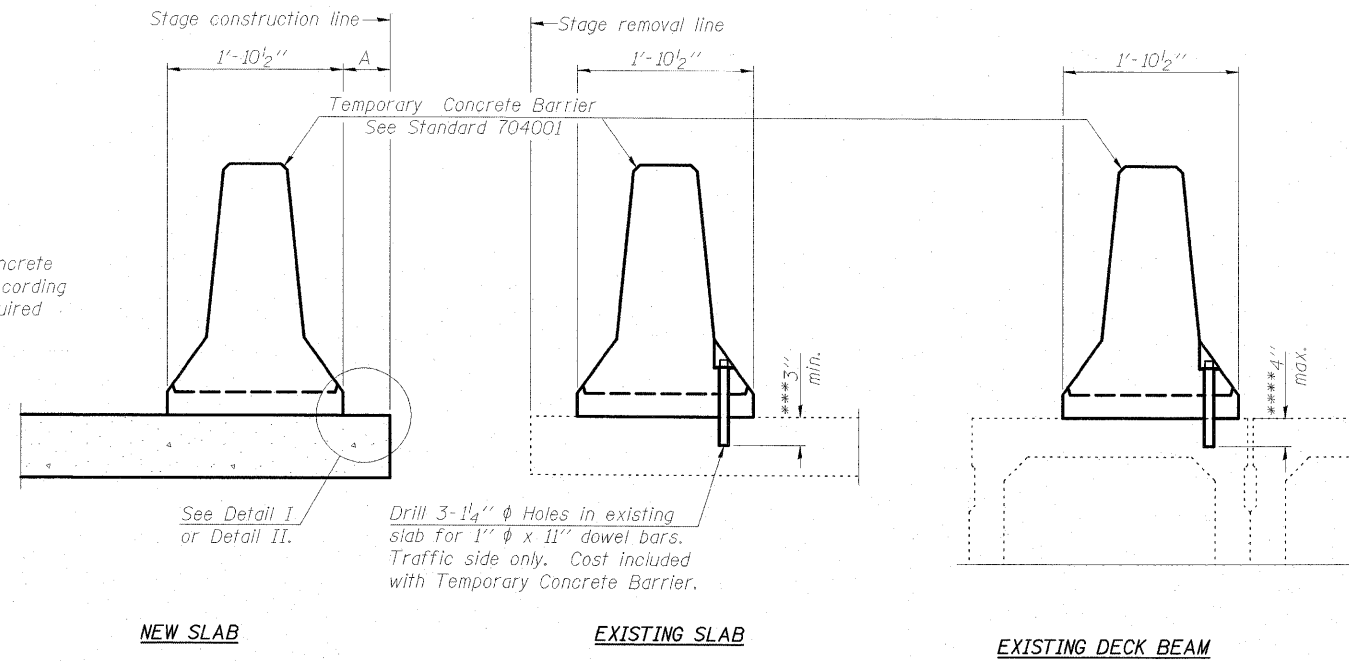
ESCA
CONSULTANTS, INC.

DESIGNED BY:	DAJ	11/08
DRAWN BY:	cj	11/08
CHECKED BY:	ELH	11/08
APPROVED BY:	RDP	11/08

**BOX CULVERT DETAILS
STRUCTURE NO. 037-0172**

SHEET NO. 5 7 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	638	136BR-1	HENRY	67	44
CONTRACT NO. 64428					
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



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".

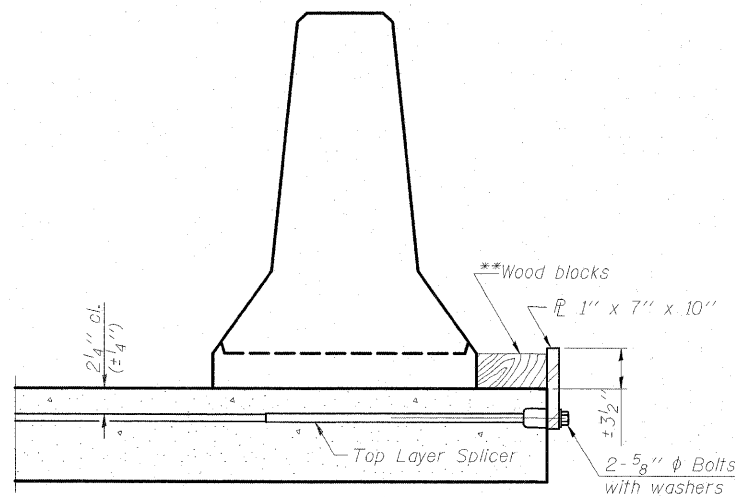
NOTES

- 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 or concrete wearing surface 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. The 1" x 7" x 10" 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.

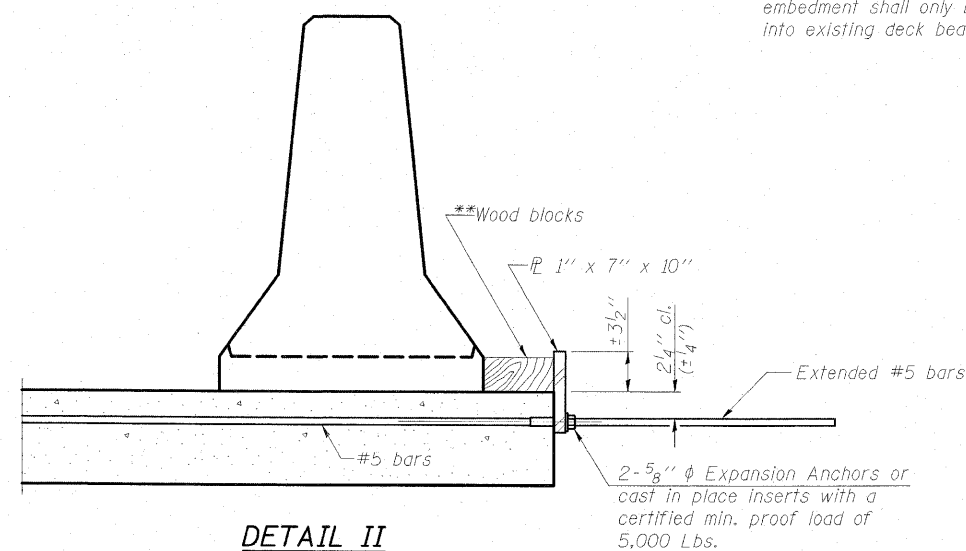
SECTIONS THRU SLAB OR DECK BEAM

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

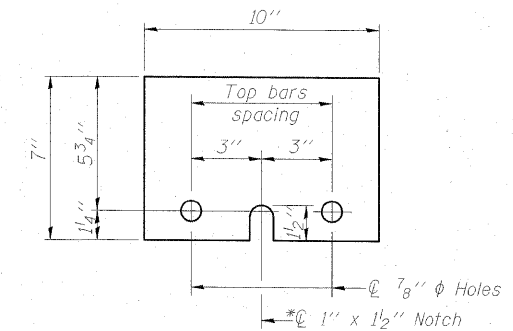
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER \bar{L} 1" x 7" x 10"

* Required only with Detail II

**Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

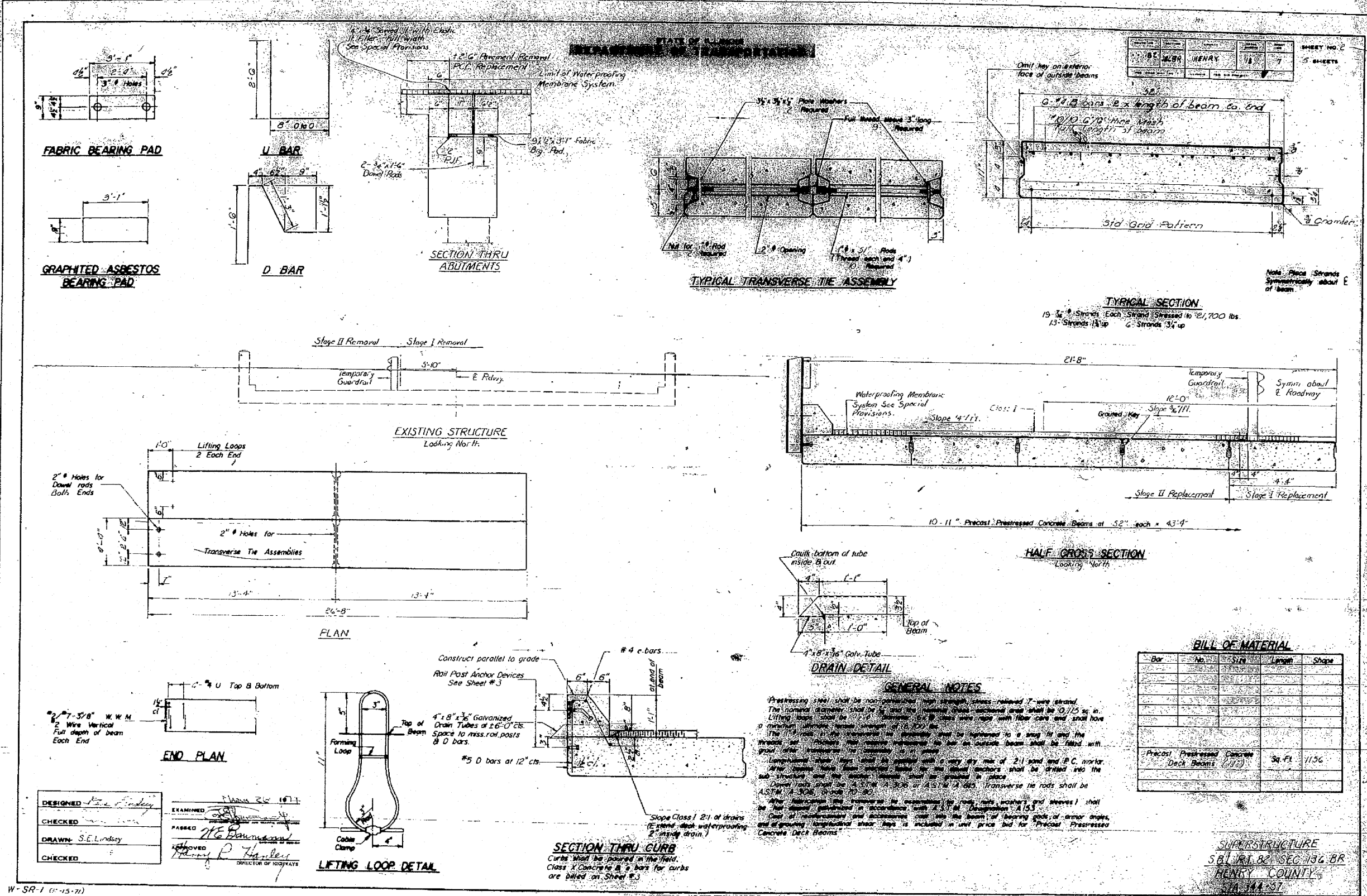
ESCA
CONSULTANTS, INC.

DESIGNED BY: DAJ 11/08
DRAWN BY: cJ 11/08
CHECKED BY: ELH 11/08
APPROVED BY: RDP 11/08

R-27 10-1-08

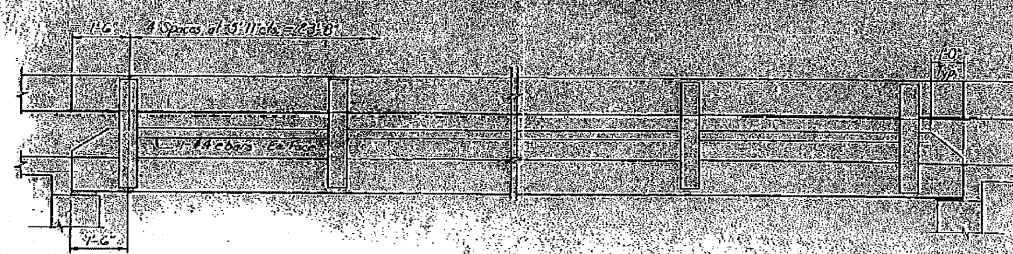
**TEMPORARY CONCRETE BARRIER
STRUCTURE NO. 037-0172**

SHEET NO. 7 7 SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	638	136BR-1	HENRY	67	46
CONTRACT NO. 64428					
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

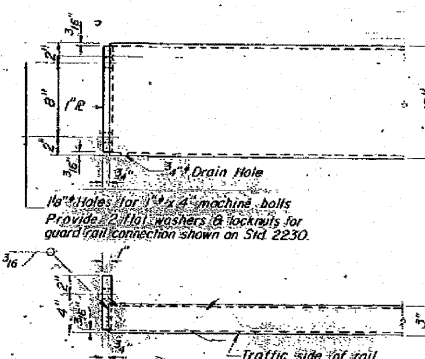
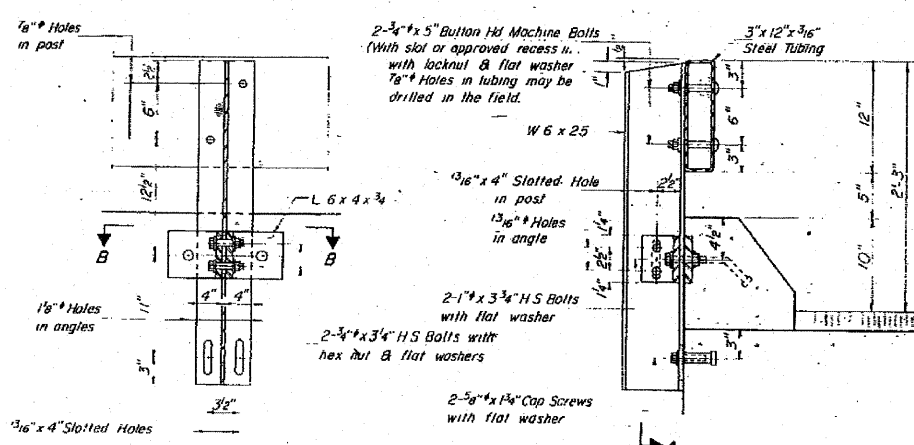


DEPARTMENT OF TRANSPORTATION

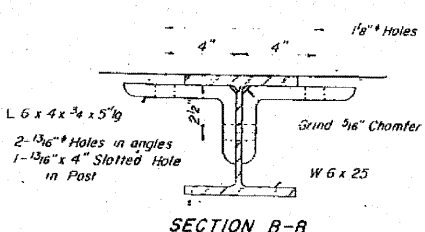
NO.	REV.	DATE	BY	DESCRIPTION
1			HENRY	
2				
3				
4				
5				



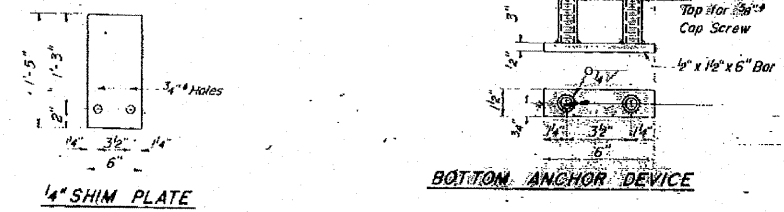
ELEVATION



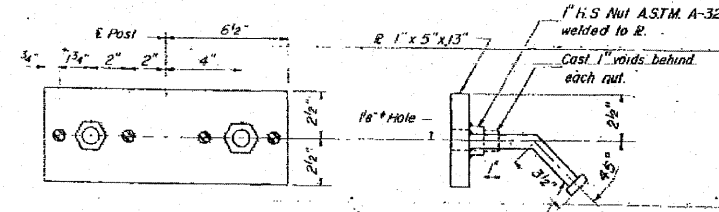
END OF RAIL DETAILS



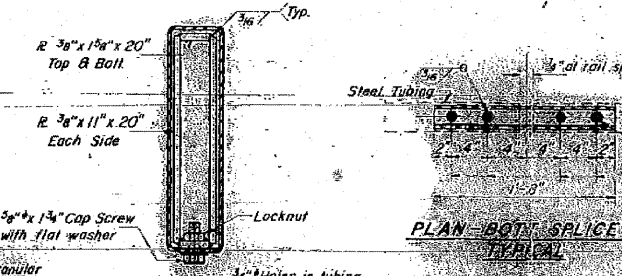
SECTION B-B



BOTTOM ANCHOR DEVICE



TOP ANCHOR DEVICE



PLAN - BOTH SPLICE R TYPICAL

SECTIONS AT RAIL SPLICE

NOTES

Hollow structural steel tubing shall conform to the requirements of ASTM designation A-500 Grade B or A-501 Structural Steel Tubing.

All other steel shapes and plates shall conform to the requirements of ASTM designation A-36 except posts shall conform to ASTM A-441.

Bolts, cap screws, and nuts shall conform to the requirements of ASTM designation A-307 except for high strength bolts, nuts and washers noted which shall conform to ASTM designation A-325.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized in accordance with ASTM designation A-153.

Steel posts, railing rail splices, anchor devices and angles shall be galvanized after shop fabrication in accordance with ASTM designation A-123 and A-395. Galvanized rail shall not be painted.

Railing shall be in accordance with Section 508 of the Standard Specifications, except as noted, and shall be paid for at the contract unit price per lined foot for STEEL RAILING, TYPE T.

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

The lower portion of the post flange in contact with concrete shall receive two coats of asphalt paint conforming to Section 714.08, Type B or place 1/2" fabric bearing pad between the post and concrete.

The 1/2" high strength bolts used to connect the 6" x 4" x 3/4" angles to the post shall be tightened in accordance with Article 507.04(3) of the Standard Specifications. The 1/2" high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional 1/4 turn.

For multi-span bridges, sufficient 1/2" x 6" x 1/2" galvanized steel shims shall be provided to align rail between adjacent spans. Cast incidental to steel railing.

CURB & RAIL BILL OF MATERIAL

Qty	No.	Size	Length	Shape
	1	1/2"	24.2'	
	2	1/2"	24.2'	
	3	1/2"	24.2'	
	4	1/2"	24.2'	
	5	1/2"	24.2'	
	6	1/2"	24.2'	
	7	1/2"	24.2'	
	8	1/2"	24.2'	
	9	1/2"	24.2'	
	10	1/2"	24.2'	
	11	1/2"	24.2'	
	12	1/2"	24.2'	
	13	1/2"	24.2'	
	14	1/2"	24.2'	
	15	1/2"	24.2'	
	16	1/2"	24.2'	
	17	1/2"	24.2'	
	18	1/2"	24.2'	
	19	1/2"	24.2'	
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	21	1/2"	24.2'	
	22	1/2"	24.2'	
	23	1/2"	24.2'	
	24	1/2"	24.2'	
	25	1/2"	24.2'	
	26	1/2"	24.2'	
	27	1/2"	24.2'	
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	29	1/2"	24.2'	
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	31	1/2"	24.2'	
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	34	1/2"	24.2'	
	35	1/2"	24.2'	
	36	1/2"	24.2'	
	37	1/2"	24.2'	
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	39	1/2"	24.2'	
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	41	1/2"	24.2'	
	42	1/2"	24.2'	
	43	1/2"	24.2'	
	44	1/2"	24.2'	
	45	1/2"	24.2'	
	46	1/2"	24.2'	
	47	1/2"	24.2'	
	48	1/2"	24.2'	
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	81	1/2"	24.2'	
	82	1/2"	24.2'	
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	89	1/2"	24.2'	
	90	1/2"	24.2'	
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	92	1/2"	24.2'	
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	94	1/2"	24.2'	
	95	1/2"	24.2'	
	96	1/2"	24.2'	
	97	1/2"	24.2'	
	98	1/2"	24.2'	
	99	1/2"	24.2'	
	100	1/2"	24.2'	

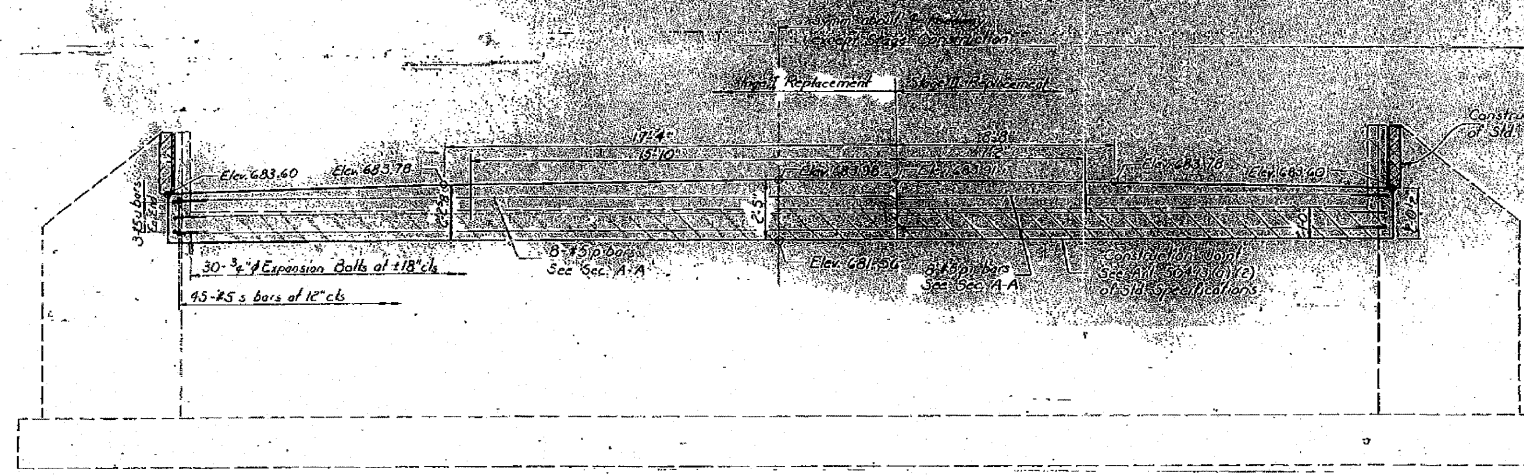
TYPE S STEEL RAILING
SECTION 508.01
HENRY COUNTY
SIA 041-01

DESIGNED: Steve Lindsey
CHECKED: Steve Lindsey
DRAWN: S.E. Lindes
CHECKED: [Signature]
EXAMINED: [Signature] MAX 26 1974
PASSED: [Signature]
APPROVED: [Signature] HENRY COUNTY
DIRECTOR OF HIGHWAYS

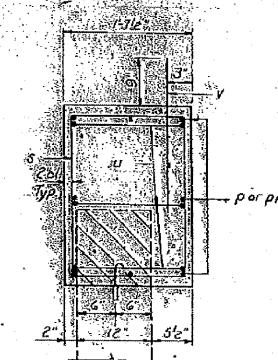
R-24 12-10-71 (1'-3" Maximum Post Spacing)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	3688	SECTION	HENRY	SHEET NO.	4
DATE	12/19/08	SCALE	AS SHOWN	DATE	12/19/08

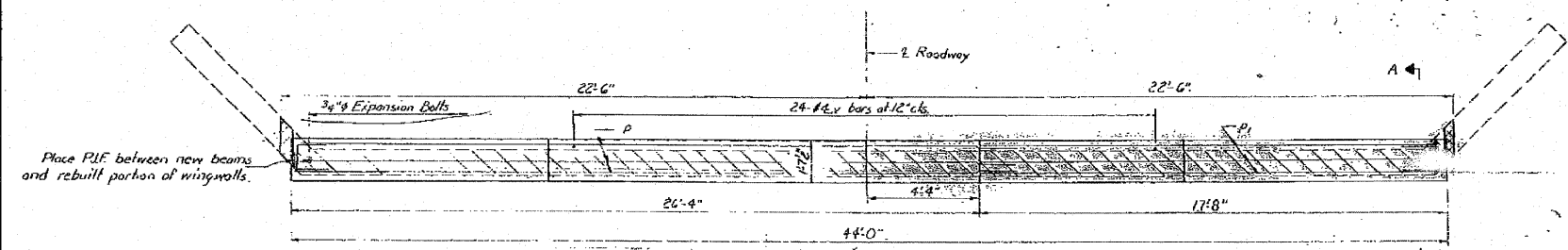


ELEVATION



SECTION A-A

Note:
Cross hatched area shall be poured after beams are in place.
Hatched area indicates Concrete Removal.
Reinforcement extending into removed area shall be cleared & incorporated into new construction.
All edges shall have standard chamfers except as noted.
Expansion Balls shall be anchored in sound concrete.



PLAN

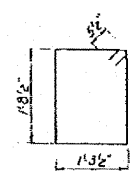
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
P	8	#5	27'-6"	
PI	8	#5	17'-5"	
S	45	#5	6'-0"	Ø
U	6	#5	3'-2"	U
V	4	#4	2'-3"	
Class II Concrete				40.0
Reinforcement Bars				170
Concrete Removal				2
Expansion Balls 4"				30

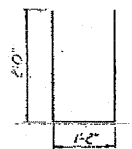
DESIGNED *Steve Lundy*
CHECKED *James Fisher*
DRAWN *S.L. Lundy*
CHECKED *SP*

EXAMINED *[Signature]*
FABRICATED *H.C. Dawson*
APPROVED *Terry R. Hender*

MARCH 26 10 4



BAR S

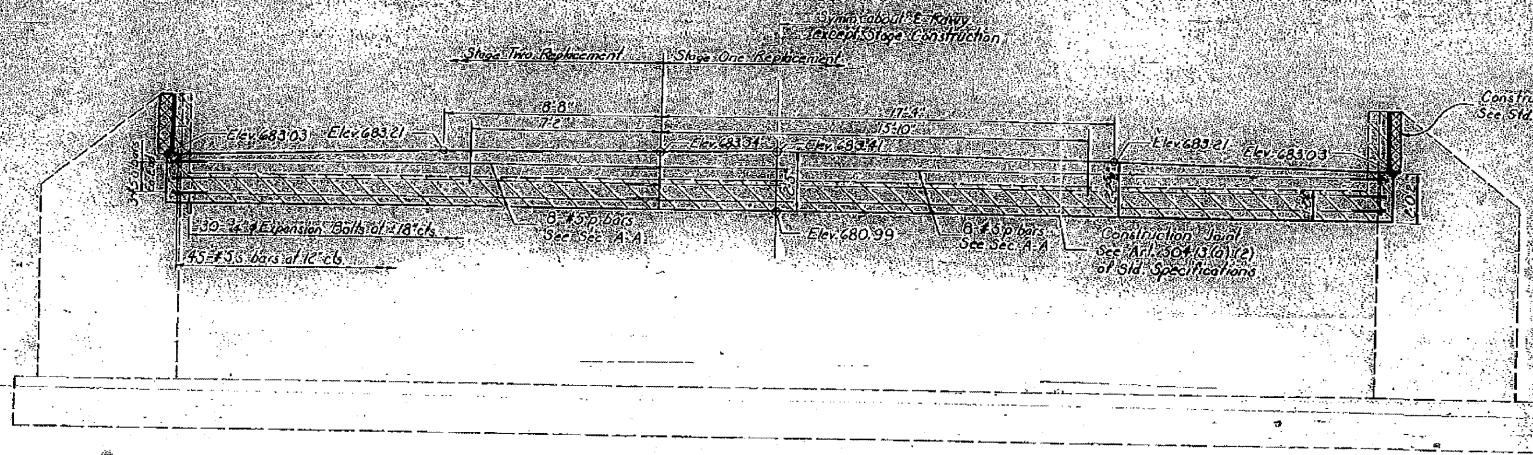


BAR U

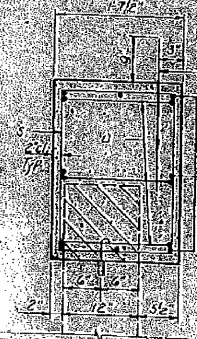
SOUTH ABUTMENT
COURT RD. SEC. 34 BR.
HENRY COUNTY
STATE ILLINOIS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	BY	CHKD	APP'D
12/19/08	JMS	ELH	

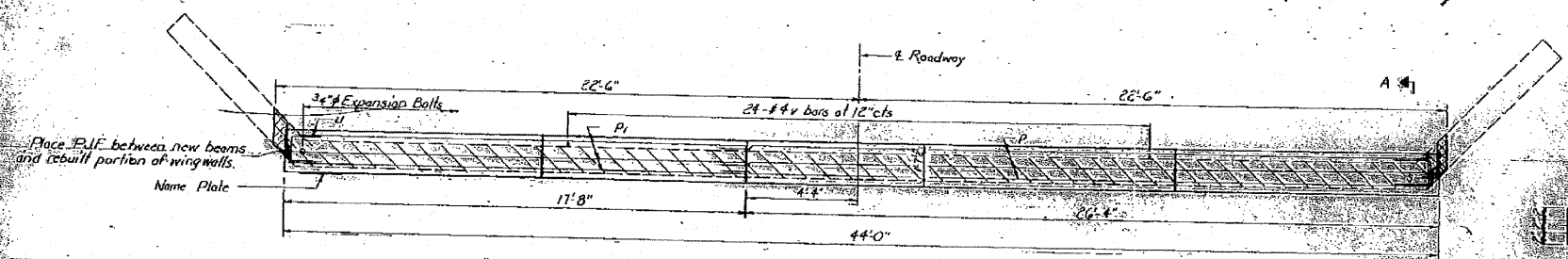


ELEVATION



SECTION A-A

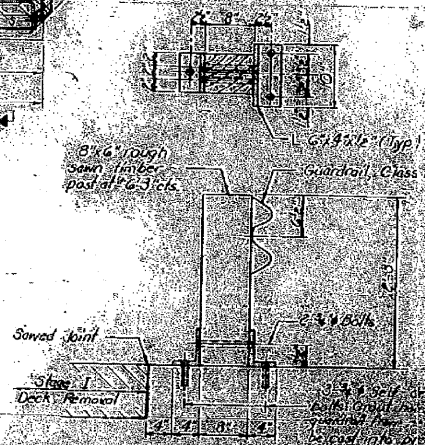
Note:
Cross-hatched area shall be poured after beams are in place.
Hatched area indicates Concrete Removal.
Reinforcement extending into removed area shall be cleared, tied, and covered with new concrete.
All bars shall be anchored by chrome-plated steel expansion bolts shall be anchored in sound concrete.



PLAN

BUILDING MATERIAL

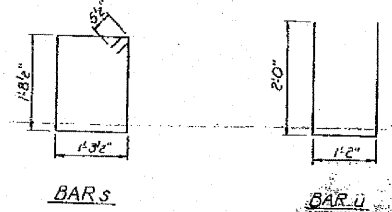
Bar	Qty	Size	Location
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2	8	#4	Deck Slab
3	8	#4	Deck Slab
4	8	#4	Deck Slab
5	8	#4	Deck Slab
6	8	#4	Deck Slab
7	8	#4	Deck Slab
8	8	#4	Deck Slab
9	8	#4	Deck Slab
10	8	#4	Deck Slab
11	8	#4	Deck Slab
12	8	#4	Deck Slab
13	8	#4	Deck Slab
14	8	#4	Deck Slab
15	8	#4	Deck Slab
16	8	#4	Deck Slab
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42	8	#4	Deck Slab
43	8	#4	Deck Slab
44	8	#4	Deck Slab
45	8	#4	Deck Slab
46	8	#4	Deck Slab
47	8	#4	Deck Slab
48	8	#4	Deck Slab
49	8	#4	Deck Slab
50	8	#4	Deck Slab



TEMPORARY GUARDRAIL DETAIL

DESIGNED: *Steve Lindsey*
 CHECKED: *James P. ...*
 DRAWN: *St. Lindsey*
 CHECKED: *JP*

EXAMINED: *Steve Lindsey*
 DATE: *12/19/08*



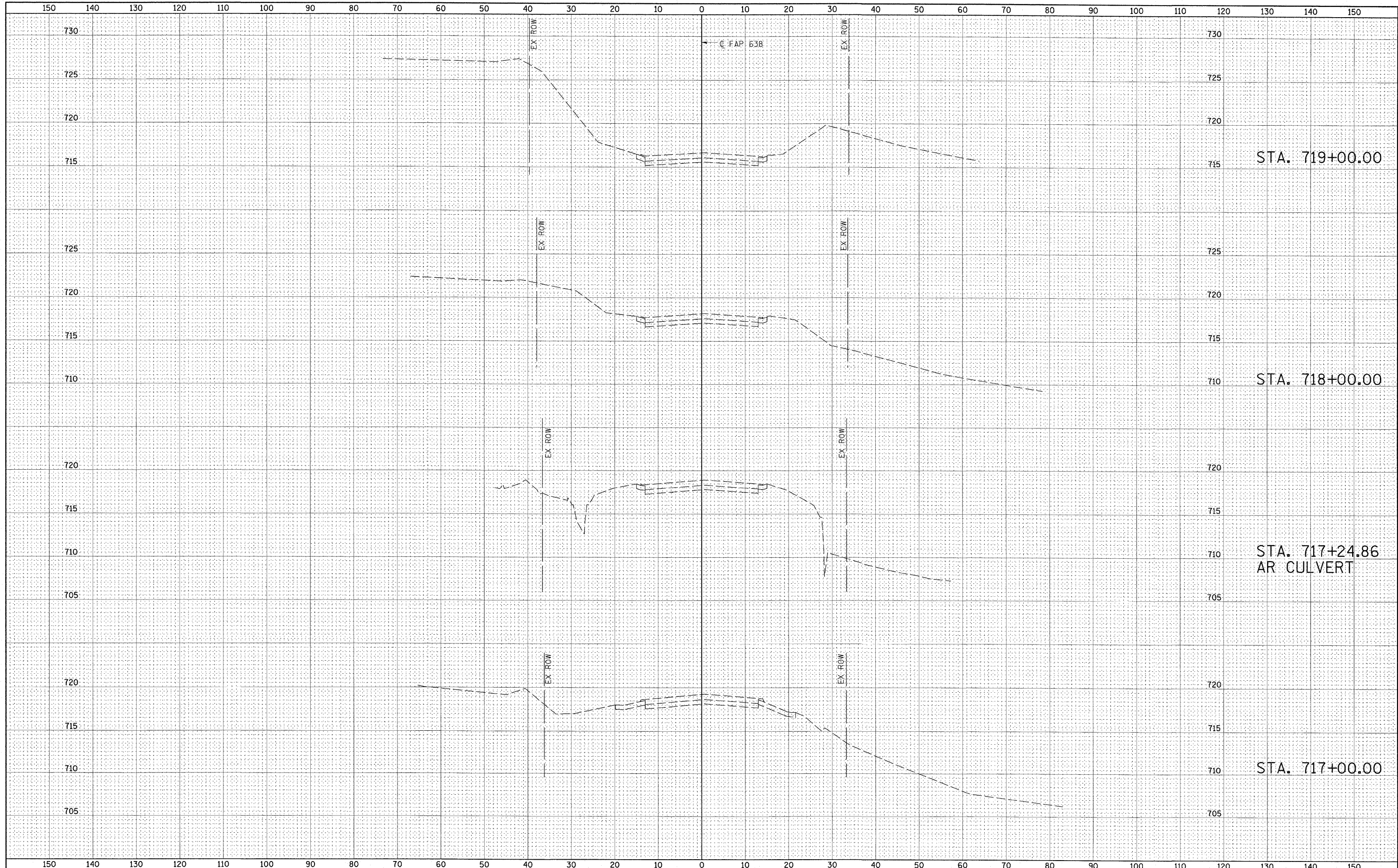
BAR S

BAR U



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

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

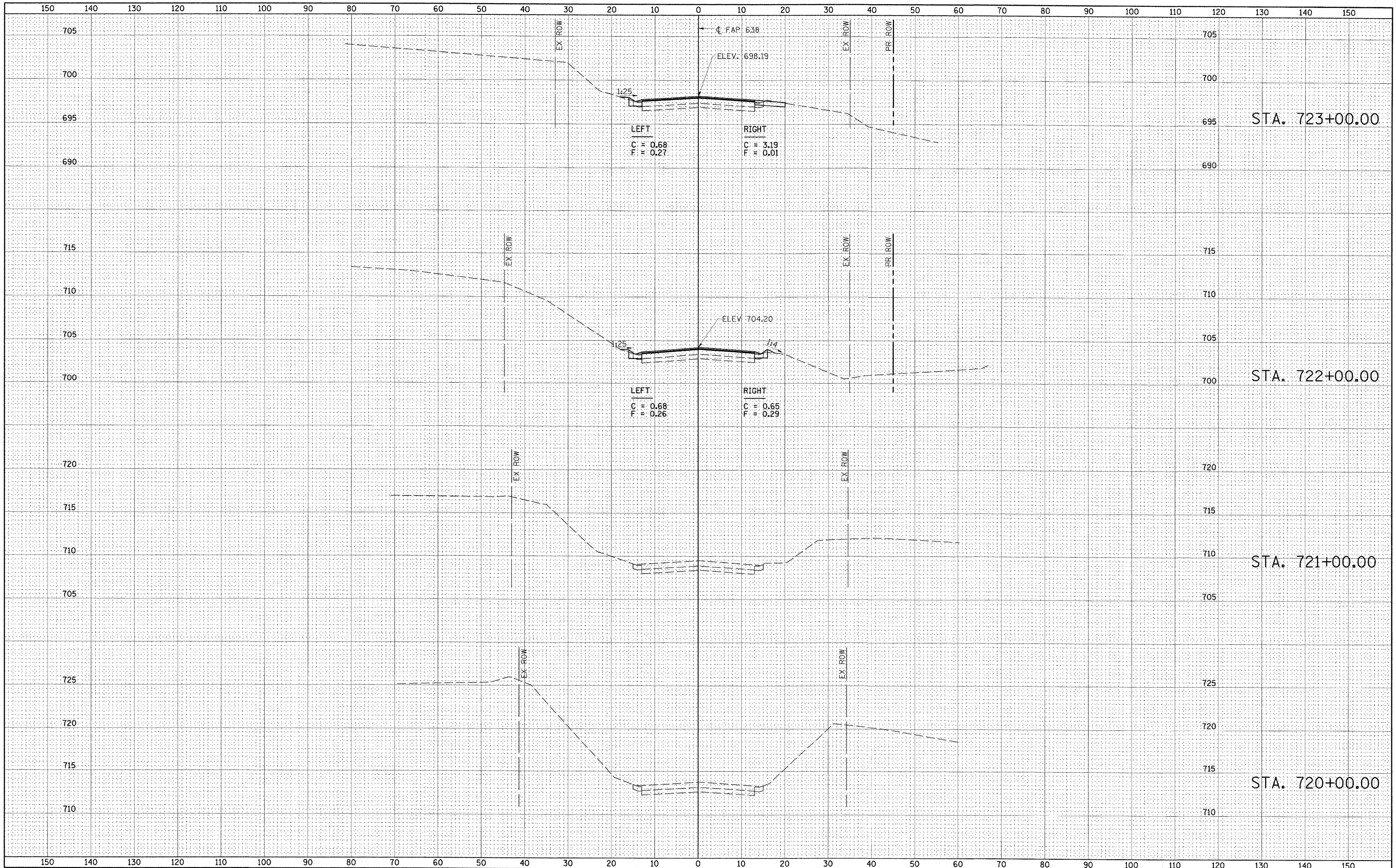


USER NAME = HAS	DESIGNED - JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 82 CROSS SECTION		F.A.P. RTE. 638	SECTION 136BR-1	COUNTY HENRY	TOTAL SHEETS 67	SHEET NO. 52	
PLOT SCALE = 10x8 7/8" = 1" / IN.	CHECKED - ELH	REVISED -		SCALE: 1"=10'-0"	SHEET NO. 1 OF 6 SHEETS	STA. 717+00 TO STA. 719+00	CONTRACT NO. 64428				
PLOT DATE = 3/23/2009 1:08:02 PM	DATE - 12/19/08	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							



BY	DATE
FINAL SURVEY	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	

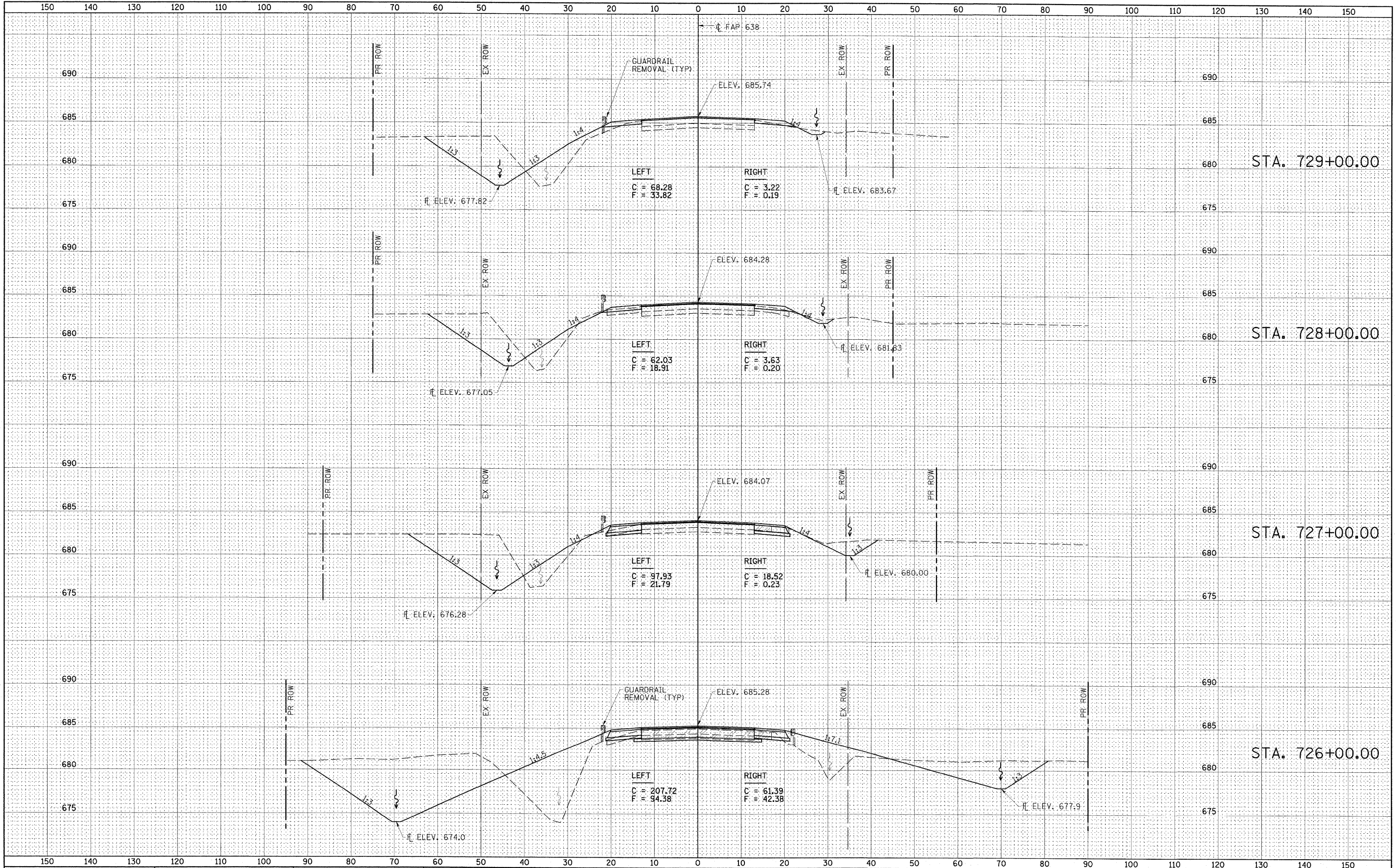
BY	DATE
ORIGINAL SURVEY	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	





DATE: _____ BY: _____
 SURVEYED: _____ PLOTTED: _____
 NOTE BOOK: _____ PLATT: _____
 AREAS CHECKED: _____
 NO. _____

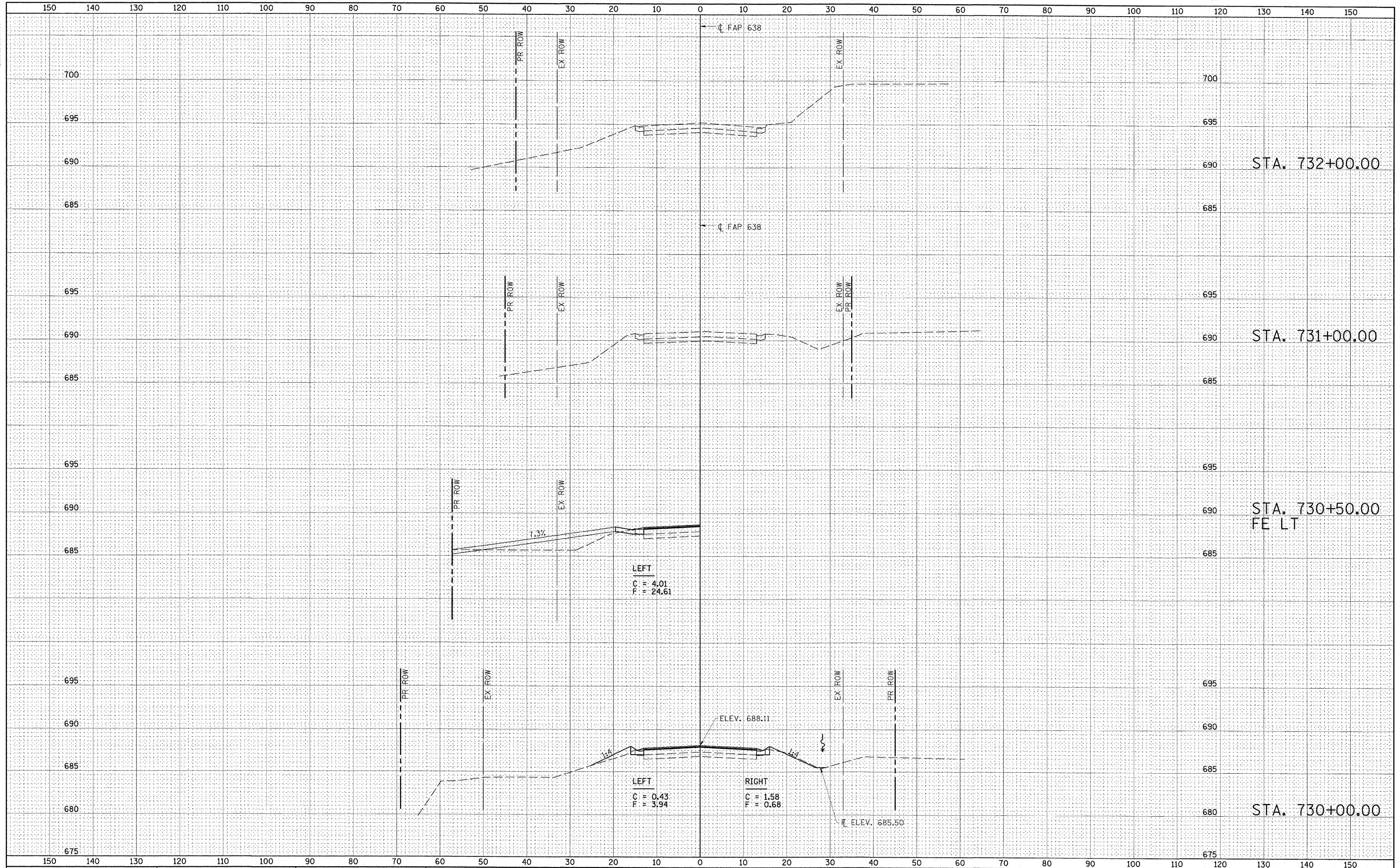
DATE: _____ BY: _____
 SURVEYED: _____ PLOTTED: _____
 NOTE BOOK: _____ PLATT: _____
 AREAS CHECKED: _____
 NO. _____





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

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



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USER NAME = HAS
 D264428-sht-xssh101.dgn
 PLOT SCALE = 1/8" = 7'8" / 1/4" IN.
 PLOT DATE = 3/23/2009

DESIGNED - JMS
 DRAWN - JPC
 CHECKED - ELH
 DATE - 12/19/08

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

IL ROUTE 82 CROSS SECTIONS

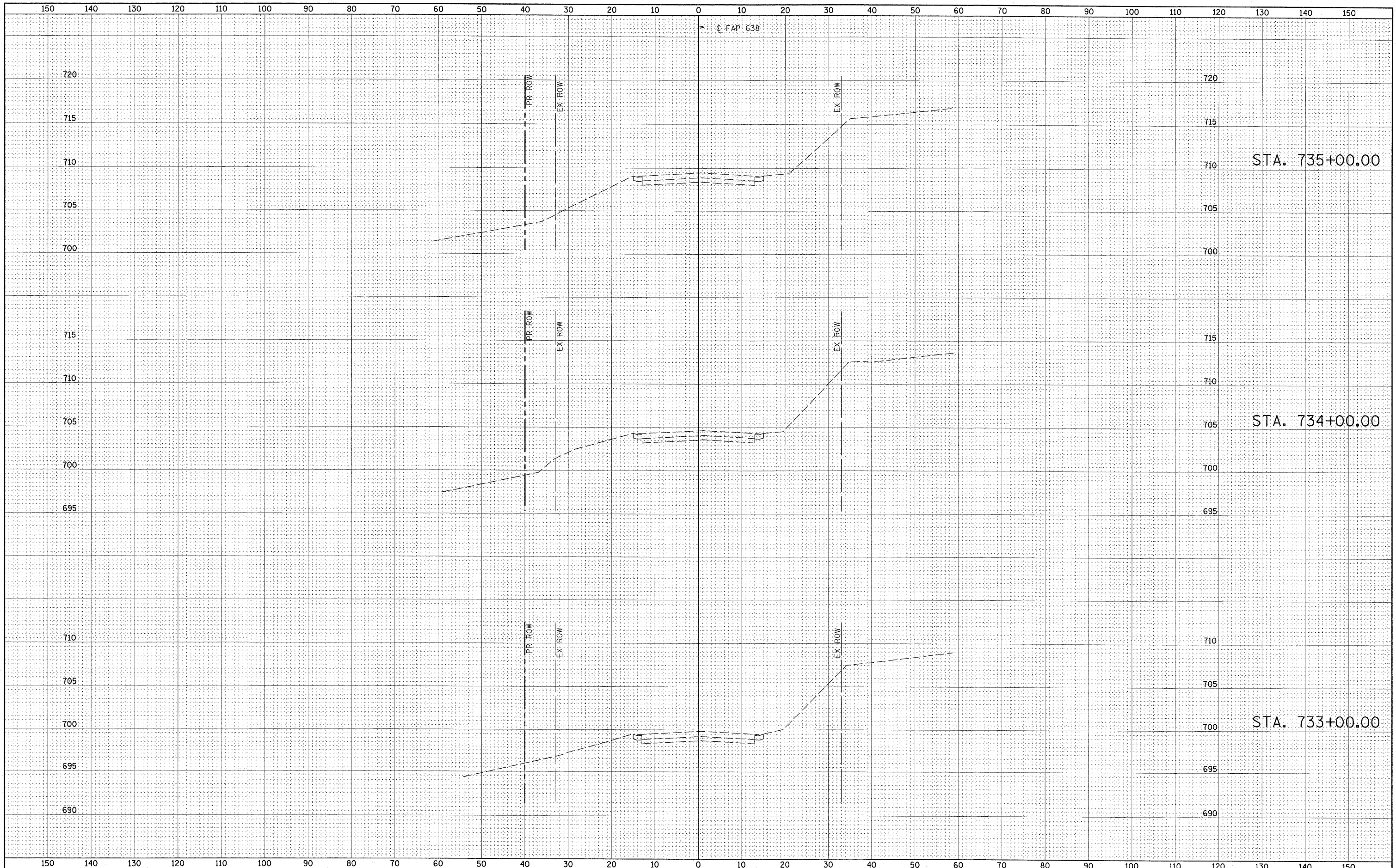
SCALE: 1"=10'-0" SHEET NO. 5 OF 6 SHEETS STA. 730+00 TO STA. 732+00

F.A.P. RTE. 638	SECTION 136BR-1	COUNTY HENRY	TOTAL SHEETS 67	SHEET NO. 56
CONTRACT NO. 64428				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				



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

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



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 USER NAME = HAS
 PLOT SCALE = 1/8" = 1' / IN.
 PLOT DATE = 3/23/2009

DESIGNED - JMS	REVISED -
DRAWN - JPC	REVISED -
CHECKED - ELH	REVISED -
DATE - 12/19/08	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL ROUTE 82 CROSS SECTIONS

SCALE: 1"=10'-0" SHEET NO. 6 OF 6 SHEETS STA. 733+00 TO STA. 735+00

F.A.P. RTE. 638	SECTION 136BR-1	COUNTY HENRY	TOTAL SHEETS 67	SHEET NO. 57
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 64428				

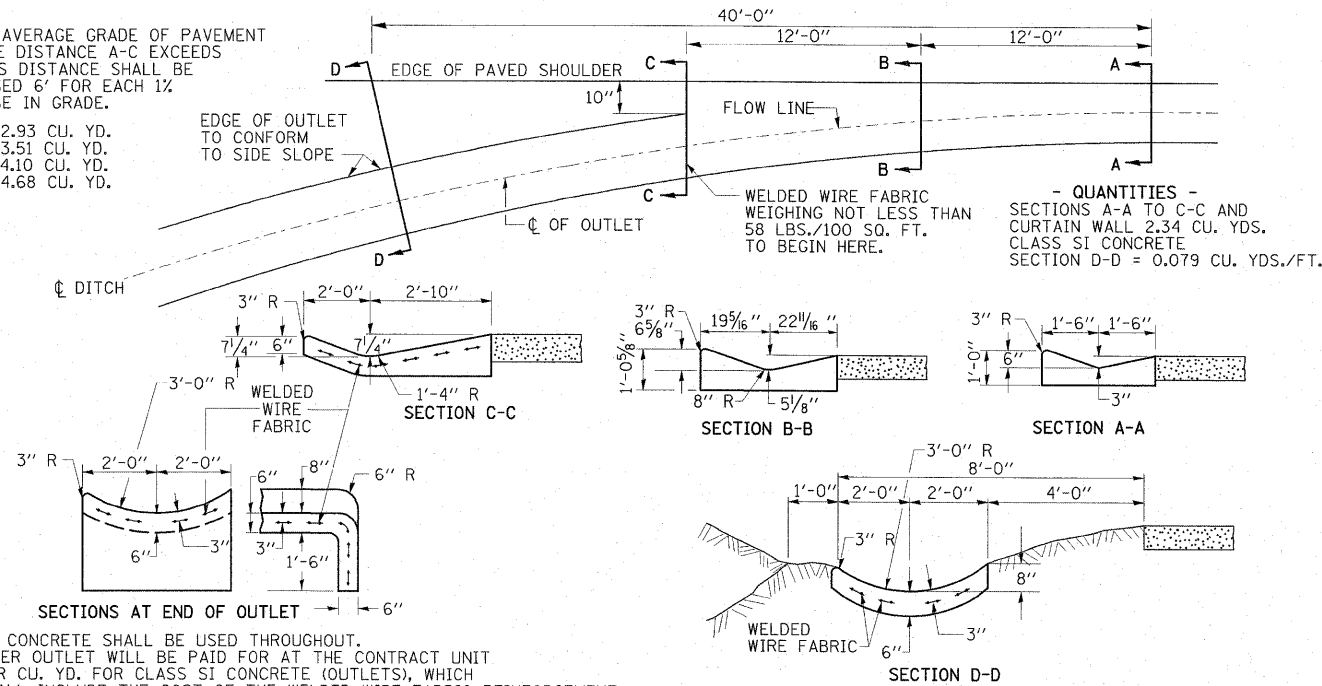


GUTTER OUTLET ADJACENT TO STABILIZED SHOULDER

NOTE:

IF THE AVERAGE GRADE OF PAVEMENT FOR THE DISTANCE A-C EXCEEDS 2%, THIS DISTANCE SHALL BE INCREASED 6' FOR EACH 1% INCREASE IN GRADE.

3% 30' 2.93 CU. YD.
4% 36' 3.51 CU. YD.
5% 42' 4.10 CU. YD.
6% 48' 4.68 CU. YD.



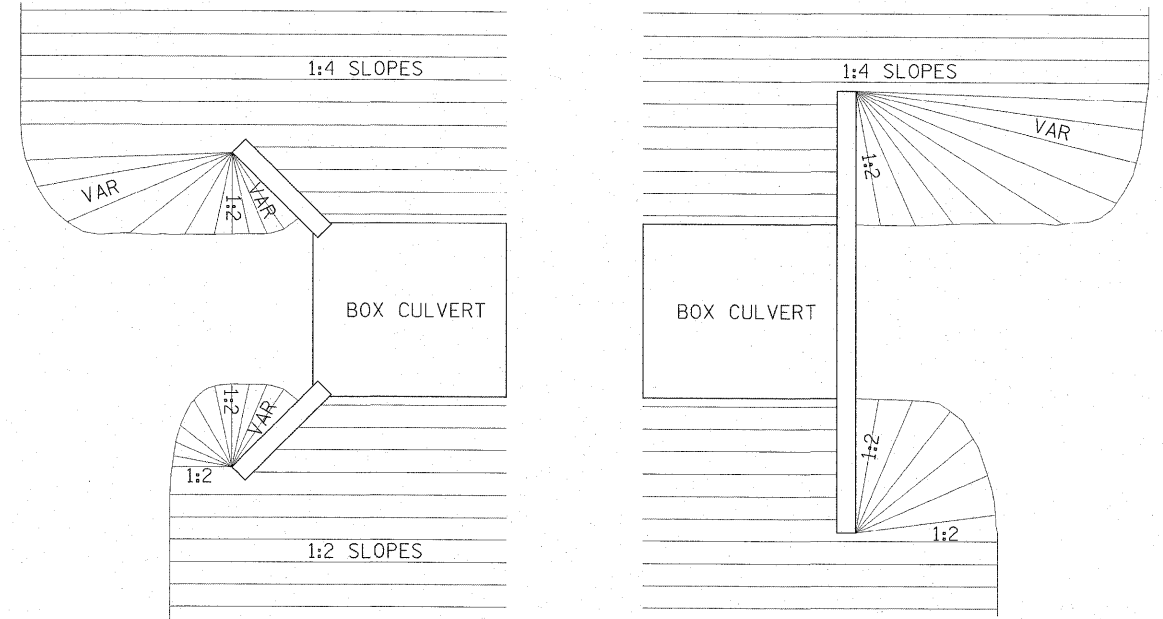
NOTES:

SECTIONS AT END OF OUTLET
CLASS S1 CONCRETE SHALL BE USED THROUGHOUT. THE GUTTER OUTLET WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CU. YD. FOR CLASS S1 CONCRETE (OUTLETS), WHICH PRICE SHALL INCLUDE THE COST OF THE WELDED WIRE FABRIC REINFORCEMENT

REVISED - 5-4-94

GUTTER OUTLET ADJACENT TO STABILIZED SHOULDER 15.4

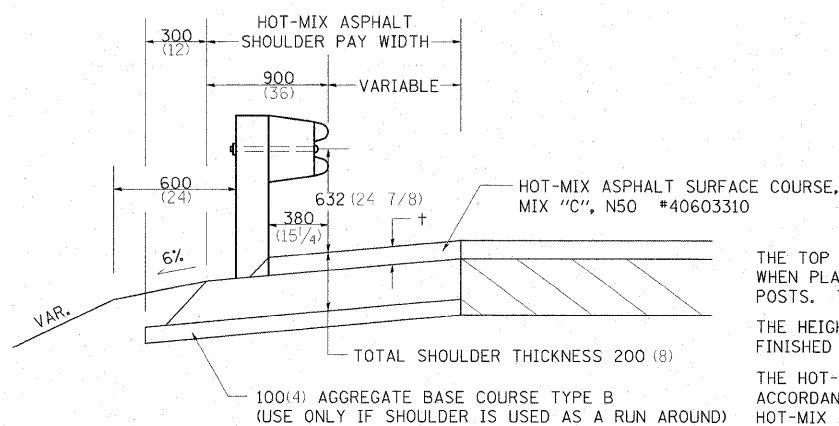
GRADING AROUND WINGWALLS



REVISED - 10-21-08

GRADING AROUND WINGWALLS 20.4

DETAIL OF HOT-MIX ASPHALT SHOULDER AT GUARD RAIL



† = SEE TYPICAL SECTIONS FOR THICKNESS

GENERAL NOTES

THE TOP LIFT SHALL NOT BE PLACED BEHIND THE GUARDRAIL POSTS. WHEN PLACING THE TOP LIFT THE RAIL MUST BE REMOVED FROM THE POSTS. THE POST SHALL NOT BE REMOVED.

THE HEIGHT OF THE GUARD RAIL SHALL BE SET 632 (24 7/8) FROM THE FINISHED SURFACE.

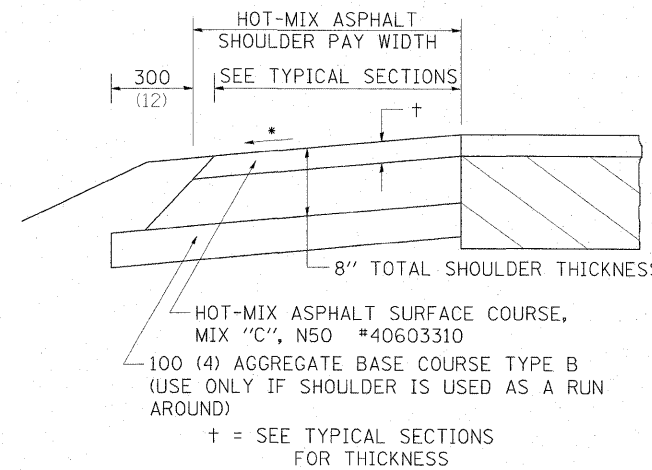
THE HOT-MIX ASPHALT SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIXTURE C, N50. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIXTURE "C", N50 AND SQUARE METER (SQUARE YARD) FOR HOT-MIX ASPHALT SHOULDERS OF THE THICKNESS SPECIFIED. THE REMOVAL & REINSTALLATION OF THE GUARDRAIL WILL BE INCLUDED IN THE COST OF THE HOT-MIX ASPHALT SURFACE COURSE, MIXTURE C, N50.

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

REVISED - 11-01-07

DETAIL OF HOT-MIX ASPHALT SHOULDER AT GUARD RAIL 23.4

HOT-MIX ASPHALT SHOULDER



GENERAL NOTES

THE HOT-MIX ASPHALT SHOULDER SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 482 EXCEPT THE TOP LIFT SHALL BE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310. THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310 AND SQUARE YARD FOR HOT-MIX ASPHALT SHOULDERS OF THE THICKNESS SPECIFIED.

USE HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310. WHEN RESURFACING EXISTING HOT-MIX ASPHALT SHOULDERS. THE THICKNESS IS SHOWN ON THE TYPICAL SECTIONS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 #40603310.

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

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

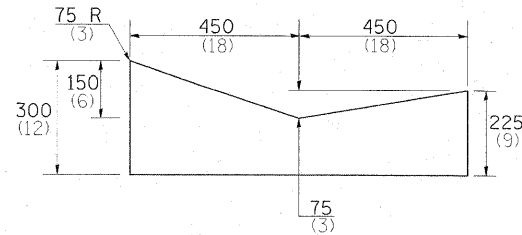
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

REVISED - 11-01-07

HOT-MIX ASPHALT SHOULDER 23.4a

FILE NAME = 0264428-shd-detail1s@4.dgn	USER NAME = HAS	DESIGNED - JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 2 STANDARDS	F.A.P. RTE. 638	SECTION 136BR-1, 137-1BR	COUNTY HENRY	TOTAL SHEETS 67	SHEET NO. 58
PLOT SCALE = 0.0839 "/> <td>CHECKED - ELH</td> <td>REVISED -</td> <td>SCALE: NO SCALE</td> <td>SHEET NO. 1 OF 10 SHEETS</td> <td>STA. TO STA.</td> <td colspan="2">FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT</td>	CHECKED - ELH	REVISED -	SCALE: NO SCALE			SHEET NO. 1 OF 10 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		
PLOT DATE = 3/23/2009 1:10:00 PM	DATE - 3/13/09	REVISED -				CONTRACT NO. 64428				

CONCRETE GUTTER, TYPE A (MODIFIED)



NOTES:

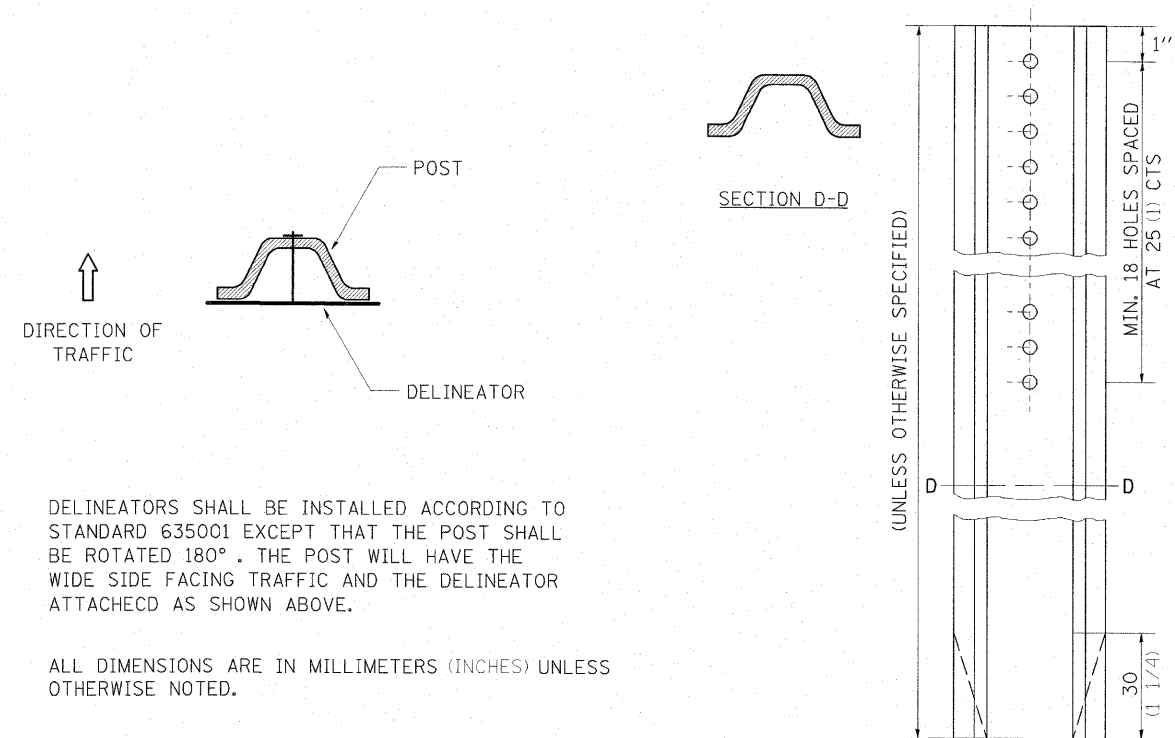
THIS WORK SHALL BE DONE IN ACCORDANCE WITH THIS DETAIL AND STANDARD 606101 THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER METER (FOOT) FOR CONCRETE GUTTER, TYPE A (MODIFIED).

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

REVISED - 5-4-94

CONCRETE GUTTER, TYPE A (MODIFIED) 36.4

DELINEATOR AND POST ORIENTATION



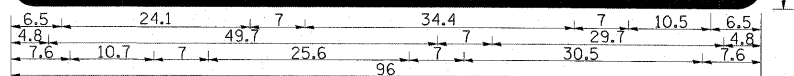
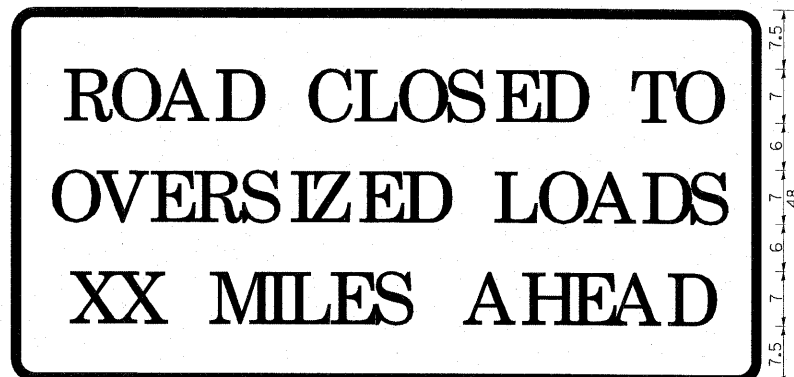
DELINEATORS SHALL BE INSTALLED ACCORDING TO STANDARD 635001 EXCEPT THAT THE POST SHALL BE ROTATED 180°. THE POST WILL HAVE THE WIDE SIDE FACING TRAFFIC AND THE DELINEATOR ATTACHED AS SHOWN ABOVE.

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

REVISED - 11-01-07

DELINEATOR AND POST ORIENTATION 37.4

ROAD CLOSED TO OVERSIZED LOADS



Permit Loads - Loads Over 13 Feet; 3.0" Radius, 1.3" Border, Black on Orange; [ROAD CLOSED TO] D; [OVERSIZED LOADS] D; [XX MILES AHEAD] D; Table of letter and object lefts.

R	O	A	D	C	L	O	S	E	D	T	O
6.5	12.5	18.7	25.9	37.0	43.6	49.2	55.4	61.8	67.3	79.0	84.6
O	V	R	S	I	Z	E	D	L	O	A	D
4.8	11.0	17.6	23.1	29.2	35.8	38.2	44.3	49.8	51.5	57.1	73.3
X	X	M	I	L	E	S	A	H	E	A	D
7.6	13.6	25.3	32.3	35.1	40.8	46.2	57.9	65.1	71.4	76.6	83.7

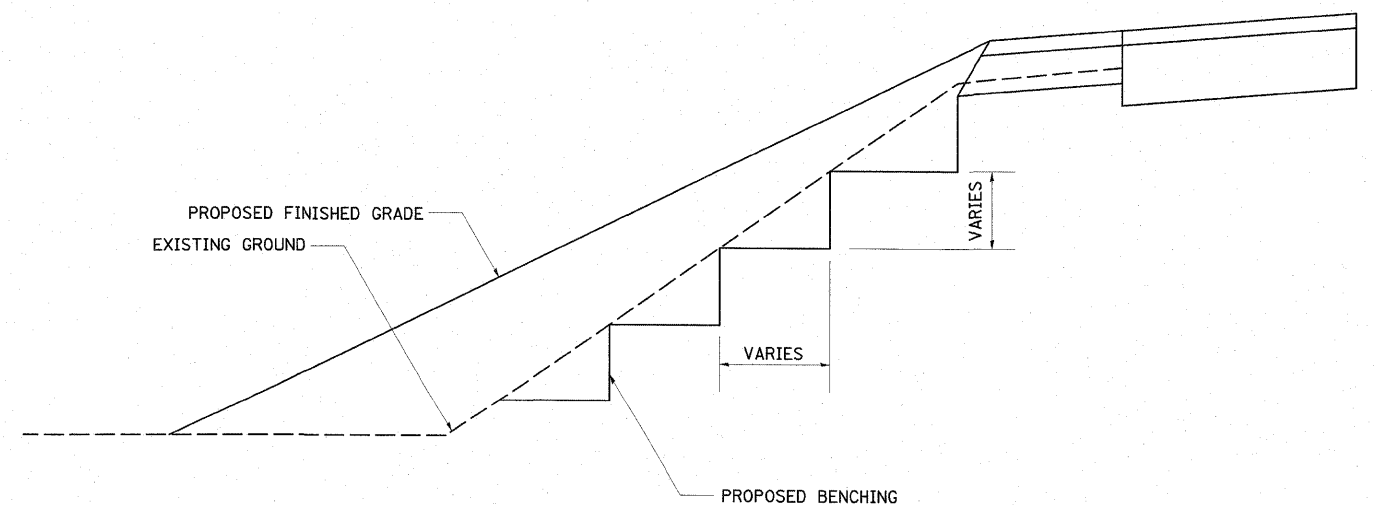
All work to furnish and install these signs shall be included in the cost of the Traffic Control Standards and shall not be paid for separately.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 1-9-08

ROAD CLOSED TO OVERSIZED LOADS 40.4

TYPICAL BENCHING ON EXISTING EMBANKMENT



REVISED - 2-22-06

TYPICAL BENCHING ON EXISTING EMBANKMENT 50.4

STOP LINE SIGN FOR TEMPORARY SIGNALS



SIZE: 600(24) × 600(24)
 100(4) CAPITAL LETTERS - BLACK
 13 (1/2) BORDER - BLACK
 WHITE REFLECTIVE - TYPE AP
 HIGH INTENSITY PRISMATIC SHEETING

GENERAL NOTE:

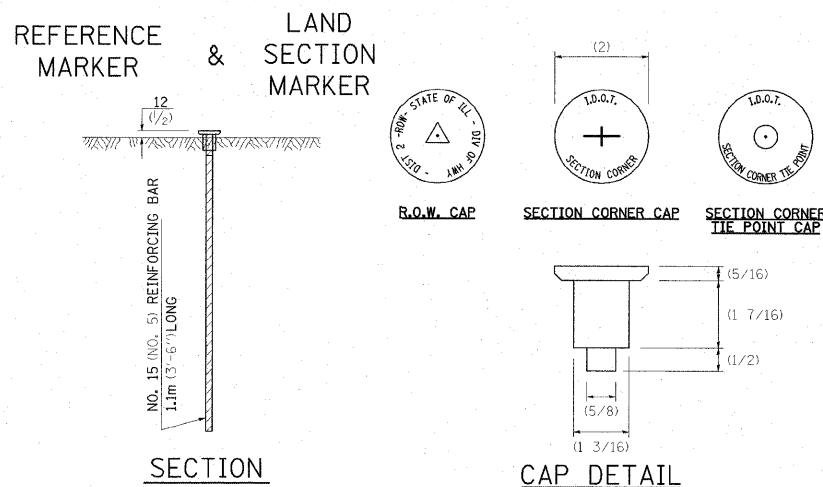
THIS SIGN SHALL BE INSTALLED AT THE STOP LINE AS DIRECTED BY ENGINEER.
 ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

REVISED - 1-22-07

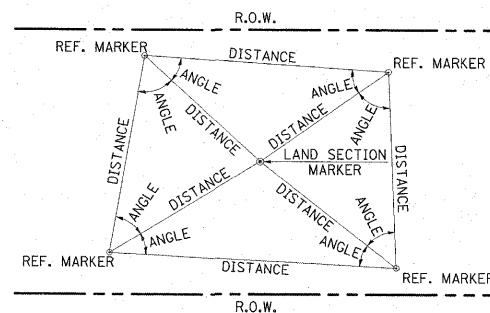
STOP LINE SIGN FOR TEMPORARY SIGNALS

99.4

LAND SECTION & REFERENCE MARKERS



METHOD OF REFERENCING MARKERS



- USE INSTRUMENT TIES TO NEARBY LAND-MARKS (STEEPLES, TOWERS, SILOS, ETC...)
- IN CULTIVATED FIELDS, SET 600(24) OR MORE BELOW GROUND SURFACE.
- IN FENCE LINE OR PROTECTED AREA SET TOP AT GROUND LEVEL.

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

METHOD OF REFERENCING POINTS
 REFERENCE MARKERS SHALL BE USED TO TIE IN PERMANENT LAND SECTION AND 1/4 SECTION CORNERS. WHERE LAND SECTION MARKERS FALL IN THE SHOULDERS OR GRAVEL SURFACES, THE TOP OF THE BAR SHALL BE KEPT 75(3) BELOW THE SURFACE. LAND SECTION MARKERS LOCATED IN TRAFFIC LANES SHALL NOT BE REPLACED.

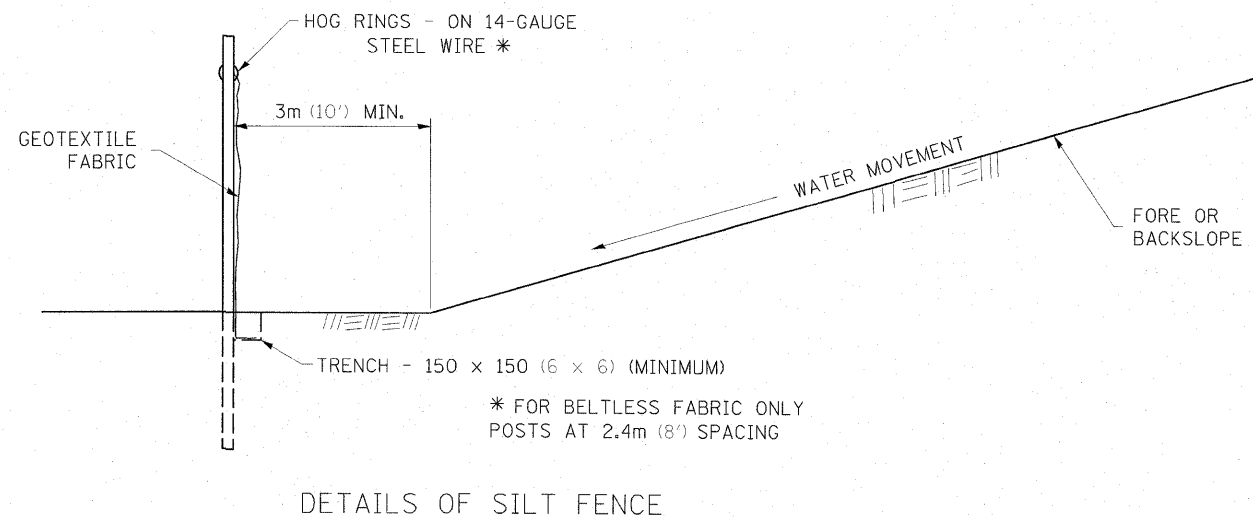
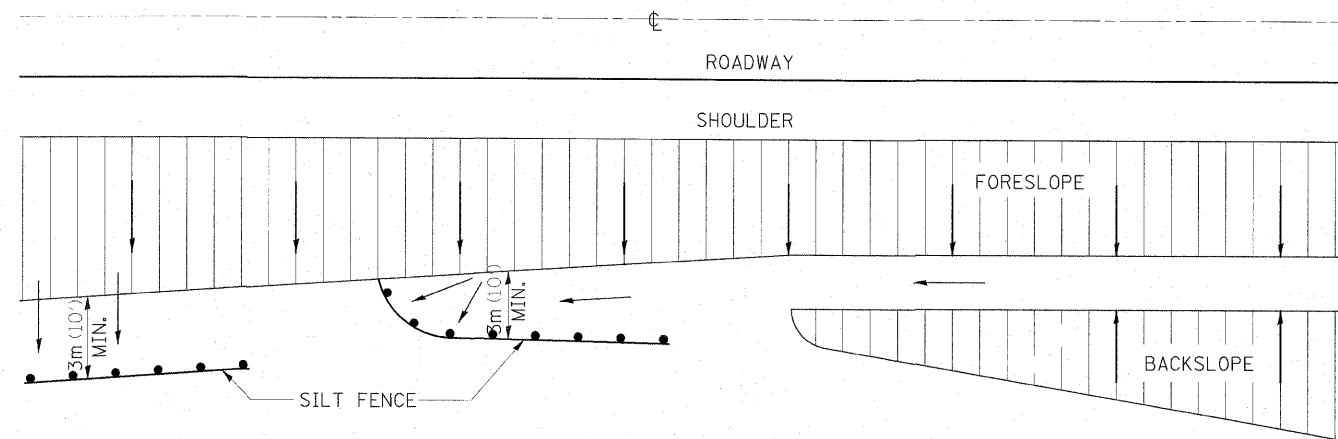
METAL CAPS SHALL BE PLACED ON TOP OF THE REINFORCEMENT BAR. THERE ARE 3 TYPES OF CAPS, ONE FOR THE RIGHT-OF-WAY CORNERS, ONE FOR THE SECTION CORNERS AND ONE FOR THE SECTION CORNER TIE POINTS. THE CAPS WILL BE SUPPLIED BY IDOT, CALL CHIP CORDELL (815) 284-5370 A MINIMUM OF ONE WEEK BEFORE THE CAPS ARE NEEDED

REVISED - 4-22-05

LAND SECTION & REFERENCE MARKERS

63.4

EROSION CONTROL DETAILS FOR SILT FENCE



DETAILS OF SILT FENCE

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

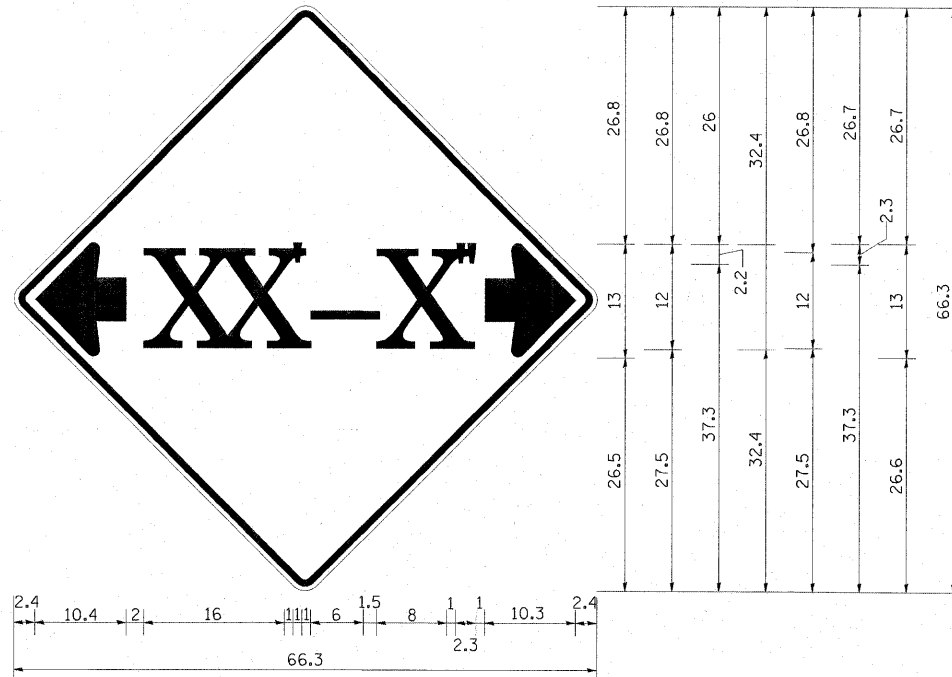
REVISED - 10-22-01

EROSION CONTROL DETAILS FOR SILT FENCE

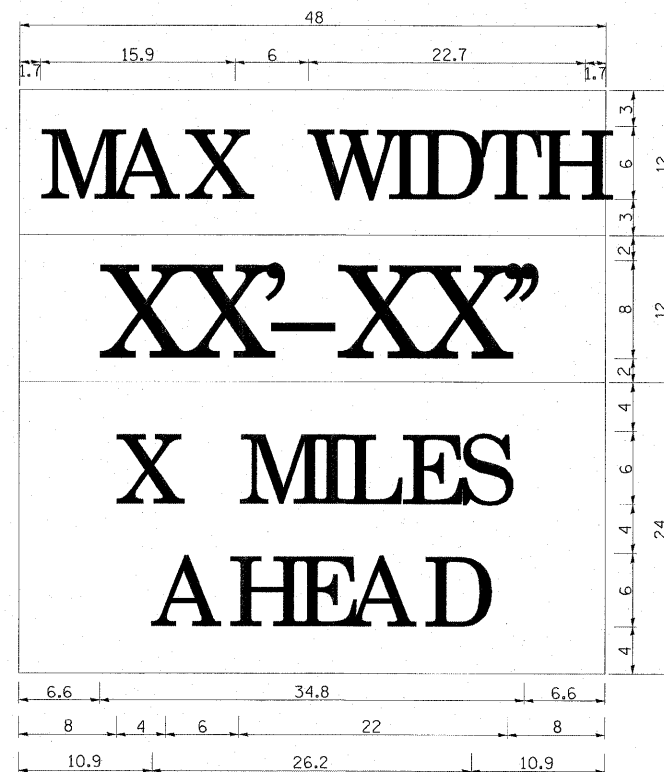
29.2

FILE NAME = 0264428-sht-details08.dgn	USER NAME = HRS	DESIGNED - JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 2 STANDARDS	F.A.P. RTE. 638	SECTION 136BR-1, 137-1BR	COUNTY HENRY	TOTAL SHEETS 67	SHEET NO. 60	
PLOT SCALE = 0.0839" = 1'	CHECKED - ELH	REVISED -	SCALE: NO SCALE			SHEET NO. 3 OF 10 SHEETS	STA. TO STA.	CONTRACT NO. 64428		FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT
PLOT DATE = 3/24/2009 6:17:43 AM	DATE - 3/13/09	REVISED -									

INFORMATIONAL WARNING SIGN (FOR NARROW TRAVEL LANES)



NOTES
 W12-2 - Horizontal Clearance Sign
 48.0" across sides, 1.9" Radius,
 0.8" Border, 0.5" Indent, Black on
 Orange; Standard Arrow Custom
 10.4" X 8.1" 180° Black II Inch
 D Series Lettering; Standard Arrow
 Custom 10.4" X 8.1" 0°



W12-1103 (Width is 8D);
 No border, Black on White;
 [MAX WIDTH] D;

No border, Black on Orange;
 [XX'-XX'"] D;

No border, Black on White;
 [X MILES] D; [AHEAD] D;

All work to furnish and install these signs shall be included in the cost of the Traffic Control Standards and shall not be paid for separately.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

REVISED - 1-9-08 **INFORMATIONAL WARNING SIGNS (FOR NARROW TRAVEL LANES) 39.2**

FILE NAME = 0264428-sht-detail13.dgn	USER NAME = HAS	DESIGNED - JMS	REVISED -
		DRAWN - JPC	REVISED -
		CHECKED - ELH	REVISED -
		DATE - 3/13/09	REVISED -

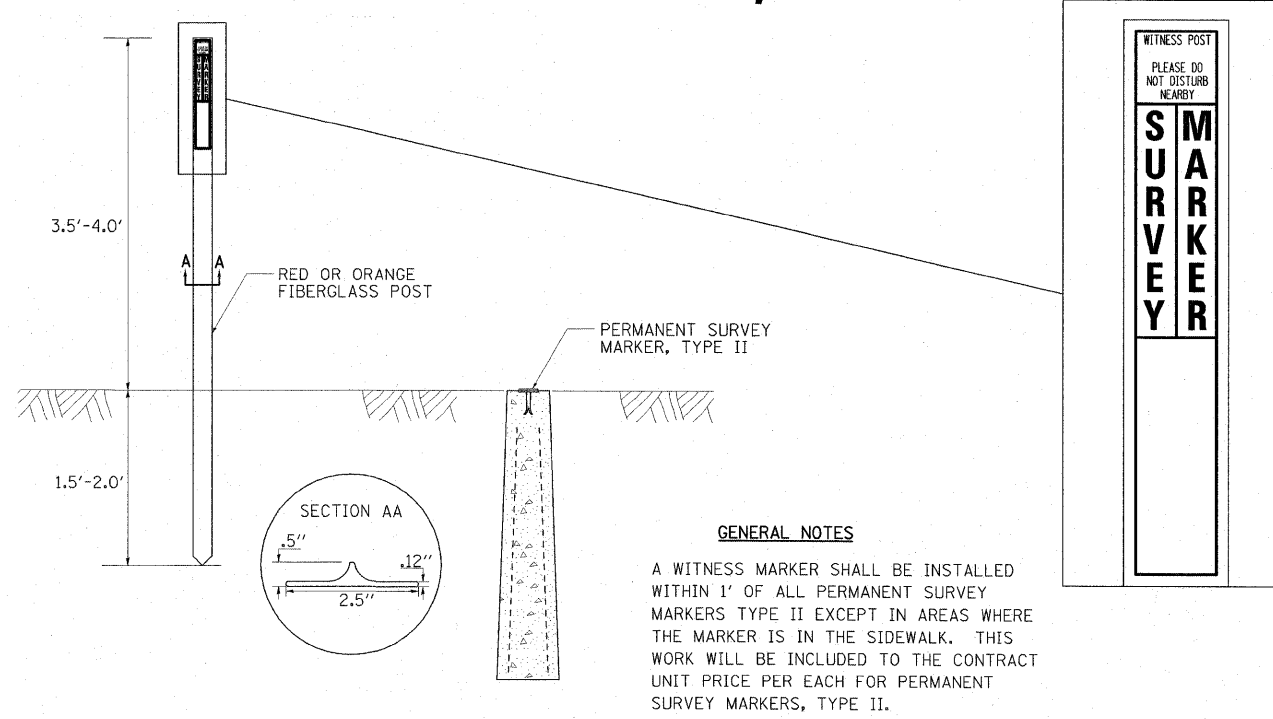
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT 2 STANDARDS

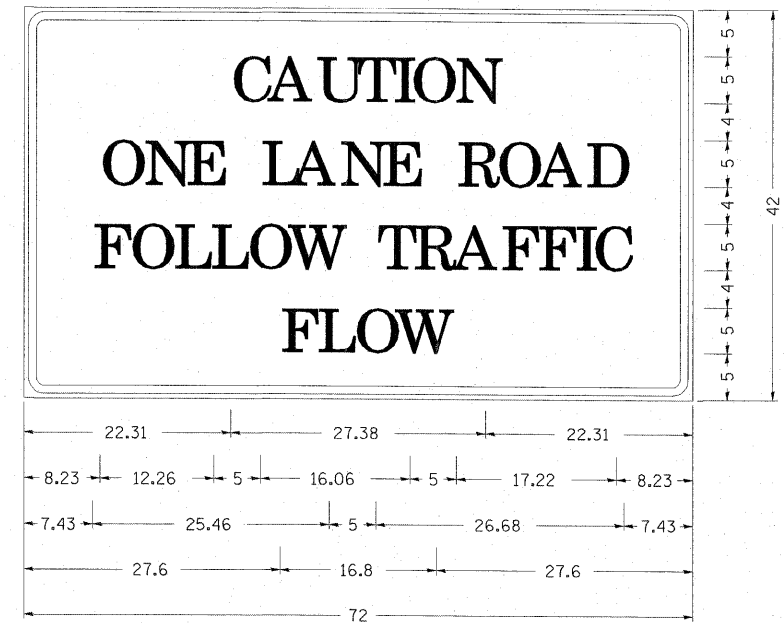
SCALE: NO SCALE SHEET NO. 4 OF 10 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	136BR-1, 137-1BR	HENRY	67	61
CONTRACT NO. 64428				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

WITNESS MARKER FOR PERMANENT SURVEY MARKERS, TYPE II



ENTRANCE SIGN FOR USE WITH TEMPORARY SIGNALS



Type AA Fluorescent Orange Sheeting ;
 2.25" Radius, 0.88" Border, 0.50" Indent, Black on Orange;
 [CAUTION] D; [ONE LANE ROAD] D;
 [FOLLOW TRAFFIC] D; [FLOW] D

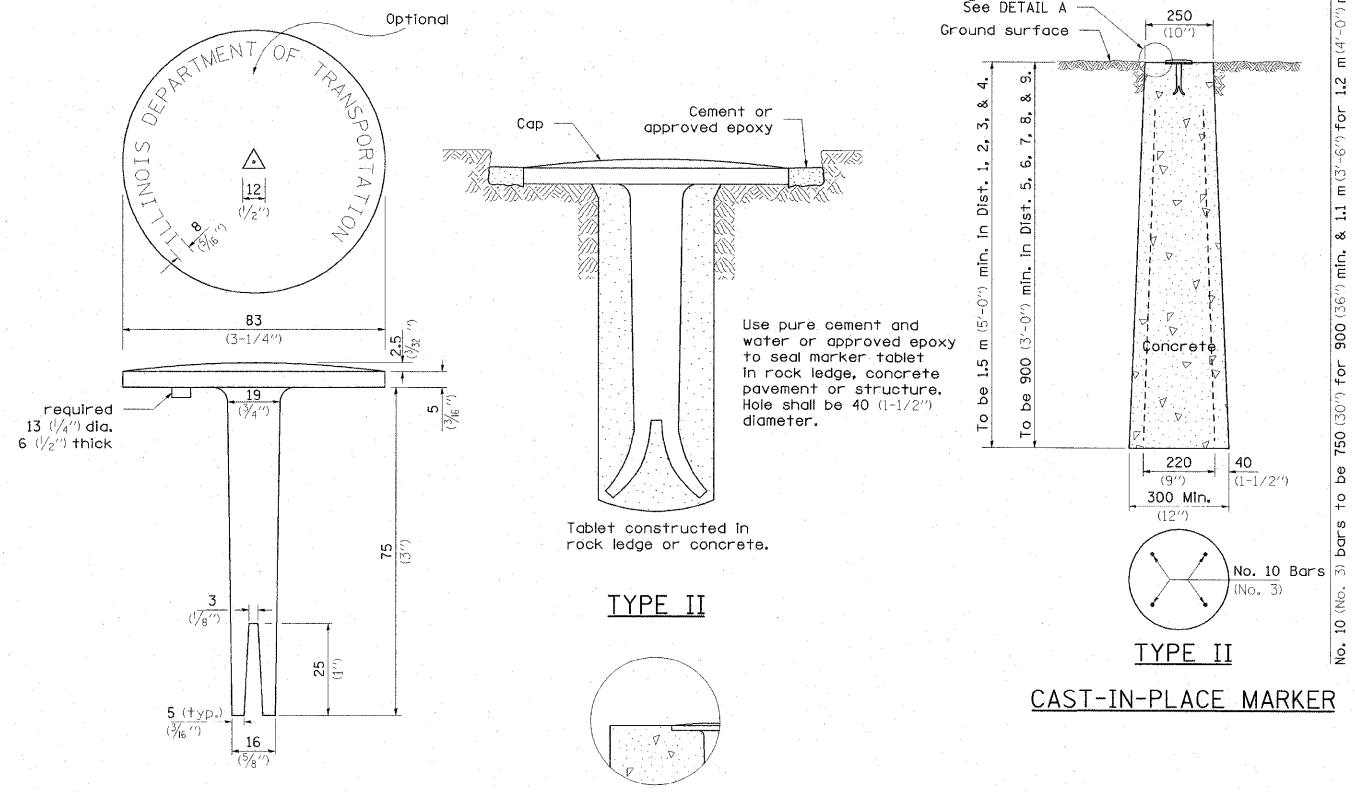
TABLE OF WIDTHS AND SPACES

22.31	C	3.36	0.62	A	4.18	0.94	U	3.36	0.94	T	3.04	0.94	I	0.78	1.17	O	3.52	1.17	N	3.36	22.31	
8.23	O	3.51	1.17	N	3.36	1.18	E	3.04														
	L	3.05	0.31	A	4.18	0.94	N	3.36	1.17	E	3.05											
	R	3.36	0.93	O	3.52	0.94	A	4.18	0.93	D	3.36	8.23										
7.43	F	3.04	0.94	O	3.52	1.17	L	3.04	0.94	L	3.05	0.94	O	3.51	0.94	W	4.37					
	T	3.05	0.94	R	3.36	0.94	A	4.18	0.93	F	3.05	0.94	F	3.04	0.94	I	0.78	1.18	C	3.35	7.43	
27.60	F	3.05	0.94	L	3.04	0.94	O	3.52	0.93	W	4.38	27.60										

GENERAL NOTES

THIS SIGN SHALL BE INSTALLED AT ENTRANCES LOCATED BETWEEN THE TEMPORARY SIGNALS AS DIRECTED BY THE ENGINEER.
 ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
 THE COST TO FURNISH, INSTALL AND REMOVE THIS SIGN AT THE REQUIRED LOCATIONS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

PERMANENT SURVEY MARKERS, TYPE II



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

BRASS OR ALUMINUM TABLET

DETAIL A

WITNESS MARKER & PERMANENT SURVEY MARKERS, TYPE II 66.2

ENTRANCE SIGN FOR USE WITH TEMPORARY SIGNALS 75.2



STORM WATER POLLUTION PREVENTION PLAN EROSION CONTROL PLAN

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

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

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

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

SITE DESCRIPTION

DESCRIPTION OF CONSTRUCTION ACTIVITY:

THIS PROJECT CONSISTS OF REMOVAL OF TWO BRIDGES AND REPLACING THEM WITH BOX CULVERTS

DESCRIPTION OF INTENDED SEQUENCE OF ACTIVITIES:

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

TOTAL CONSTRUCTION SITE (CONSTRUCTION LIMIT TO CONSTRUCTION LIMIT) 3.8 ACRES
PROPOSED R.O.W (TOTAL PARCEL AREA) 4.4 ACRES
DISTURBED BY EXCAVATION (E.O.P TO CONSTRUCTION LIMIT) 2.8 ACRES

SUPPORTING REPORTS AND PLANS

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

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

DRAINAGE TRIBUTARIES RECEIVING WATER FROM CONSTRUCTION SITE

NORTH BRANCH OF SPRING CREEK
SOUTH BRANCH OF SPRING CREEK

EROSION CONTROLS AND SEDIMENT CONTROL PROCEDURES

STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION:
PERIMETER EROSION CONTROL SHALL BE PLACED PRIOR TO BEGINNING EARTHWORK.

STABILIZATION PRACTICES DURING CONSTRUCTION:

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

MAINTENANCE AFTER FINAL GRADING

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

REVISED - 5-12-04

FILE NAME = D264426-shr-detail1803.dgn	USER NAME = HAS	DESIGNED - JMS	REVISED -
		DRAWN - JPC	REVISED -
	PLOT SCALE = 0.0833' / 1" IN.	CHECKED - ELH	REVISED -
	PLOT DATE = 3/23/2009 11:14 PM	DATE - 3/13/09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

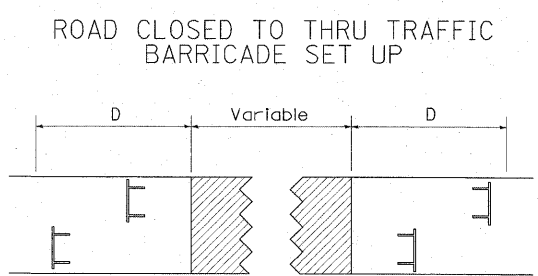
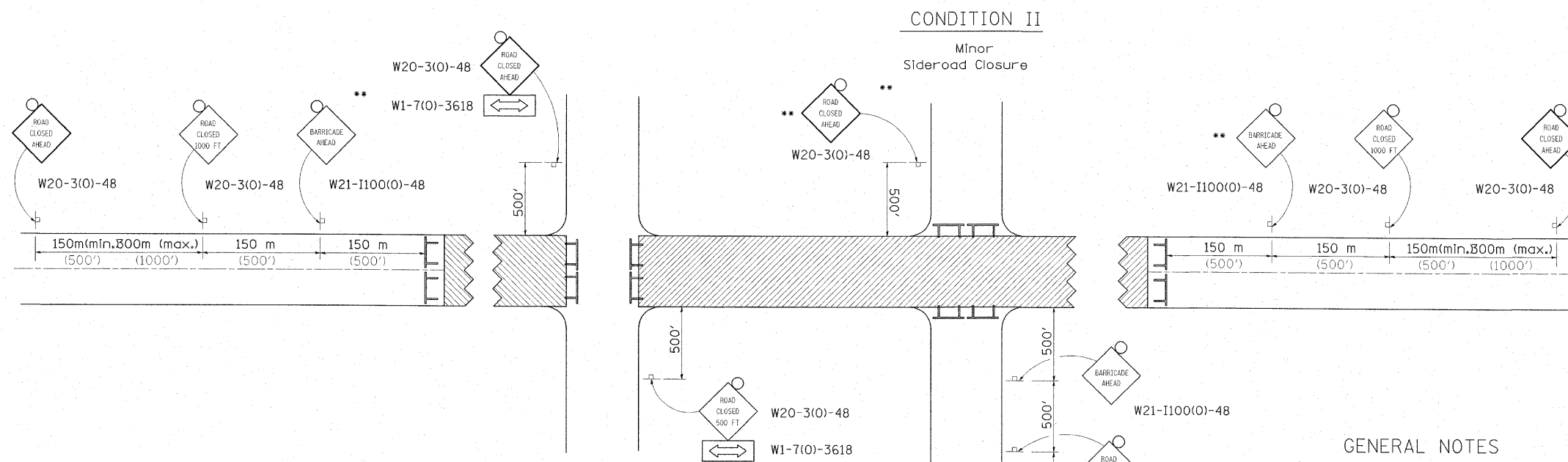
DISTRICT 2 STANDARDS

SCALE: NO SCALE SHEET NO. 6 OF 10 SHEETS STA. TO STA.

STORM WATER POLLUTION PREVENTION PLAN 2.1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
638	136BR-1, 137-1BR	HENRY	67	63
CONTRACT NO. 64428				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TRAFFIC CONTROL FOR ROAD CLOSURE



Type III Barricades and R11-4-4830 signs shall be as shown in "Road Closed To All Thru Traffic" detail on Highway Standard 701901. If the distance "D" exceeds 600 m (2000') an additional set of barricades and R11-4-4830 shall be placed at each end of the work area.

REVISED - 1-11-08

GENERAL NOTES

Longitudinal dimensions may be adjusted to fit field conditions.

When speed limit is less than 45mph, change sign spacing to 250' and change ROAD CLOSED 1000 FT to ROAD CLOSED 500 FT.

Side roads requiring all three signs as shown in CONDITION I (Major Sideroad Closure), shall be listed in the special provision.

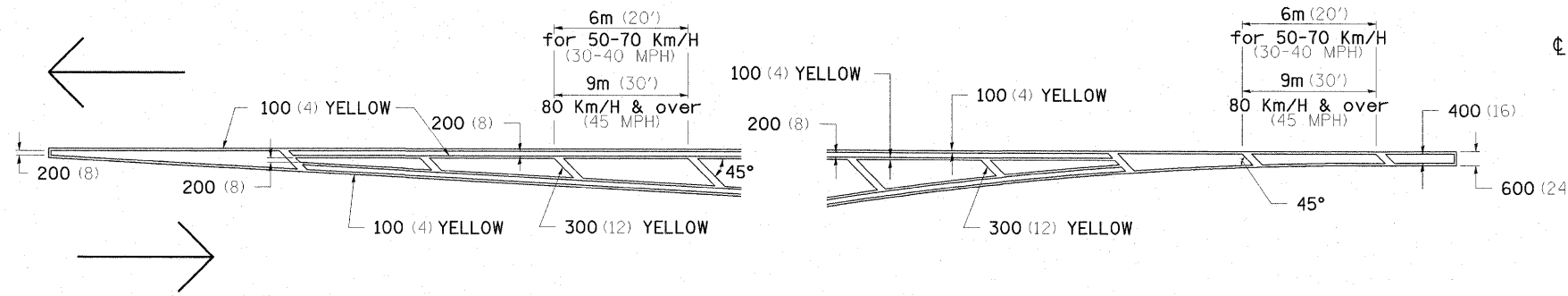
** Where local access is to be maintained, barricades are to be set up as shown in Road Closed to thru traffic. Type III Barricades and R11-2-4830 signs shall be as shown in "Road Closed To All Traffic" detail on Highway Standard 701901.

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

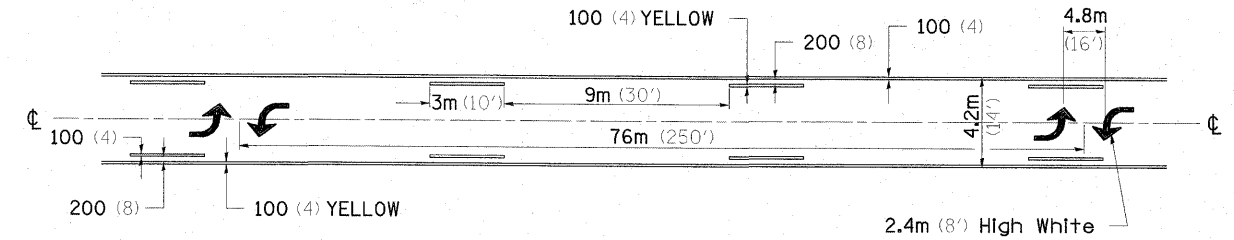
All dimensions are in millimeters (inches) unless otherwise shown.

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

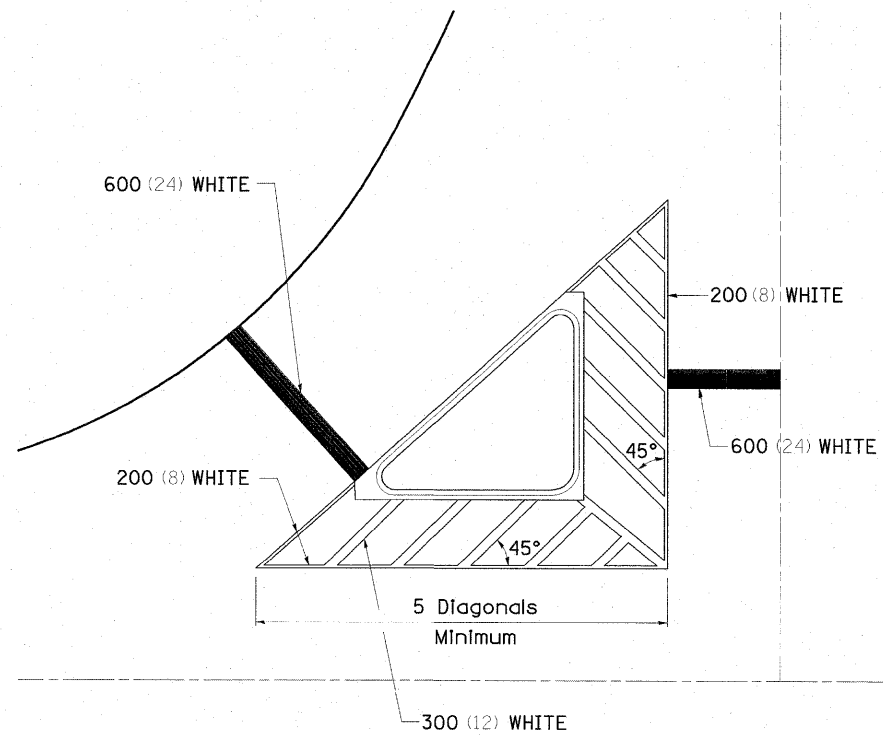


MEDIAN PAVEMENT MARKING

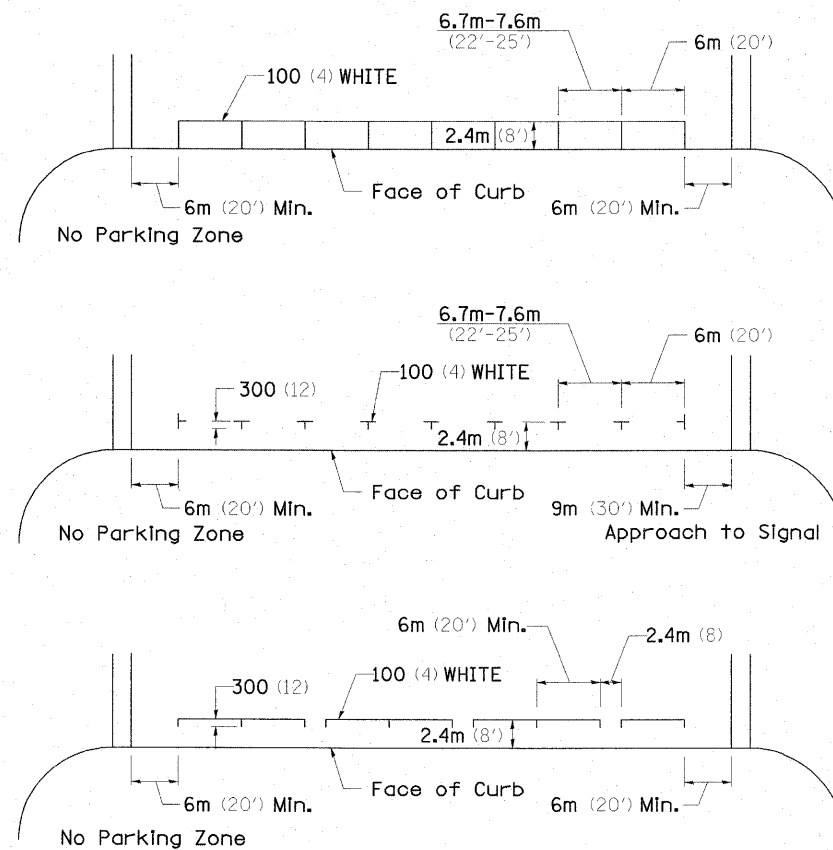


** ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

TYPICAL ISLAND OFFSET SHOULDER WIDTH

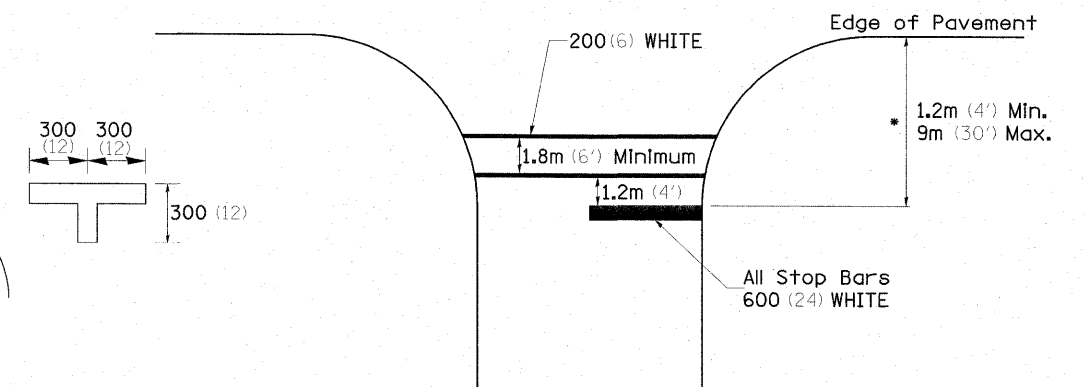


TYPICAL PARKING SPACING



STANDARD CROSSWALK MARKING

See Schedules for Locations



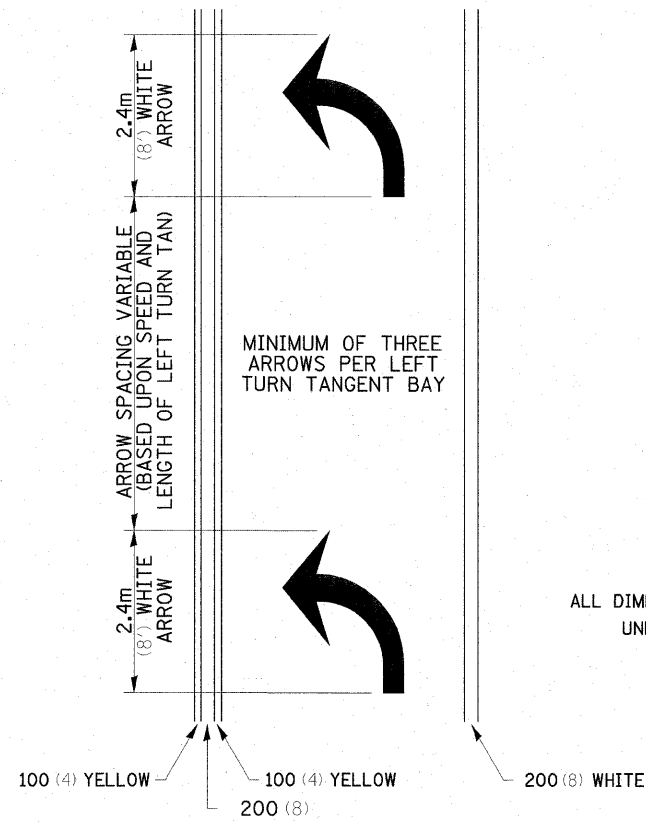
* Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

REVISED - 10-21-08

FILE NAME = D264428-shr-details07.dgn	USER NAME = HAS	DESIGNED - JMS	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 2 STANDARDS	F.A.P. RTE. 638	SECTION 136BR-1, 137-1BR	COUNTY HENRY	TOTAL SHEETS 67	SHEET NO. 65	
PLOT SCALE = 0.0039" / IN.	CHECKED - ELH	REVISIONS -	SCALE: NO SCALE			SHEET NO. 8 OF 10 SHEETS	STA. TO STA.	CONTRACT NO. 64428		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	
PLOT DATE = 3/23/2009 1:11:32 PM	DATE - 3/13/09	REVISIONS -									

TYPICAL PAVEMENT MARKINGS

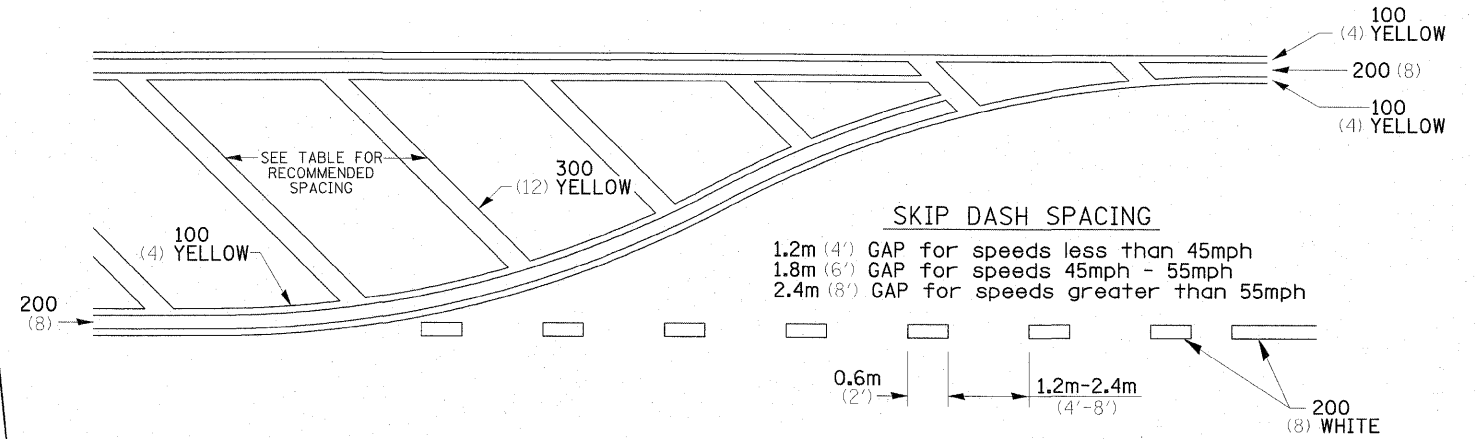
ARROW LAYOUT



- ◀ ONE-WAY AMBER MARKER
- △ ONE-WAY CRYSTAL MARKER
- ◆ TWO-WAY AMBER MARKER

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

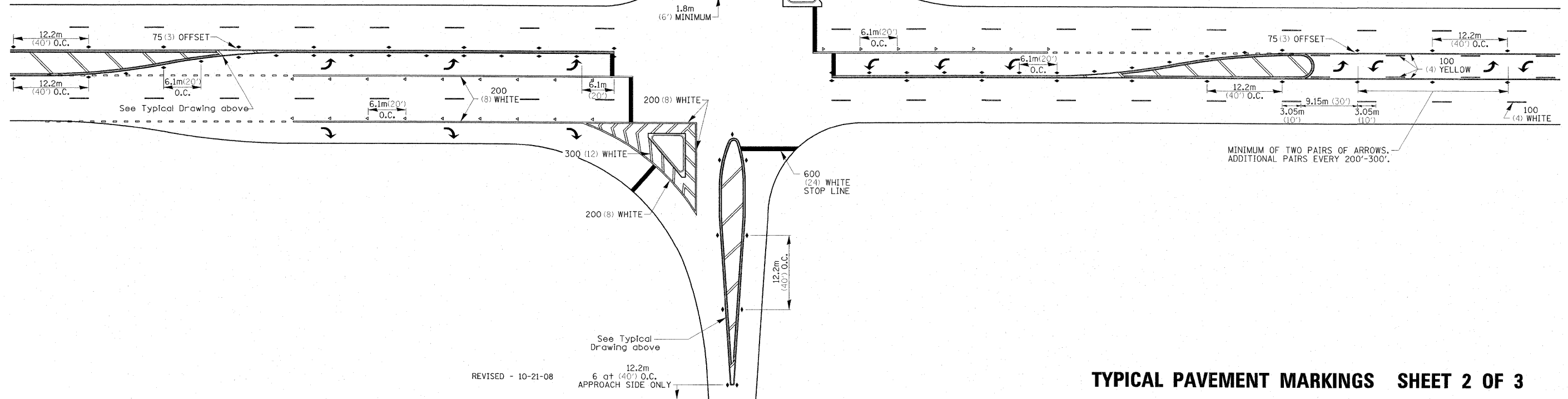
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

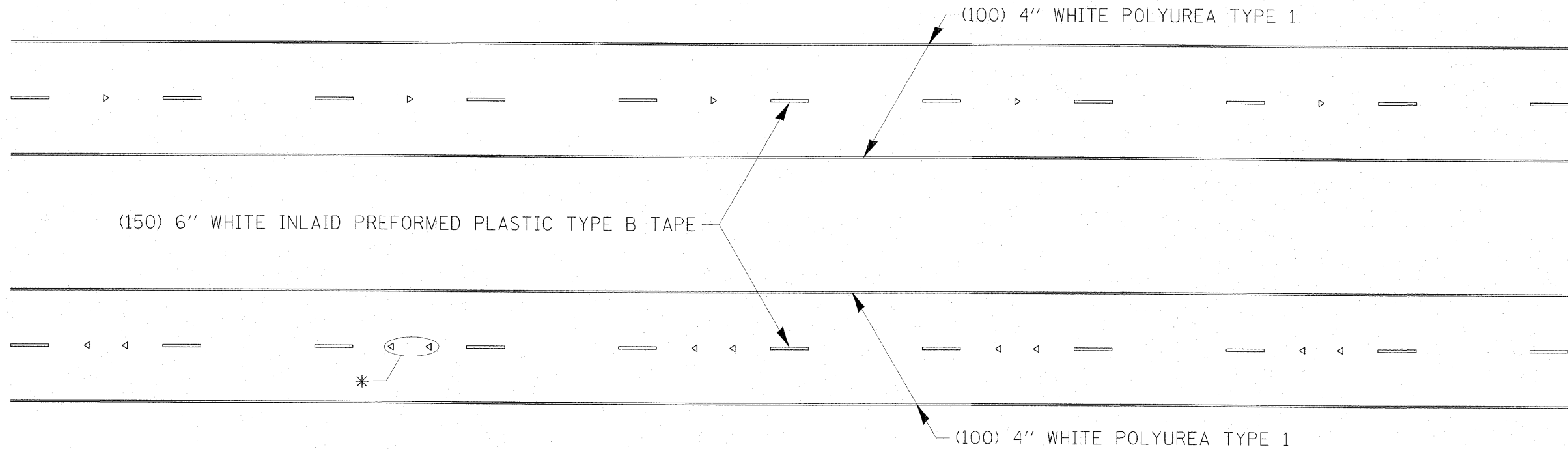
Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 50Km/H (30MPH)	15.3m (50')	4.53m (15')	3.05m (10')
50-60Km/H (30-40MPH)	22.9m (75')	6.1m (20')	4.53m (15')
70Km/H (45MPH) & over	22.9m (75')	9.05m (30')	6.1m (20')

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



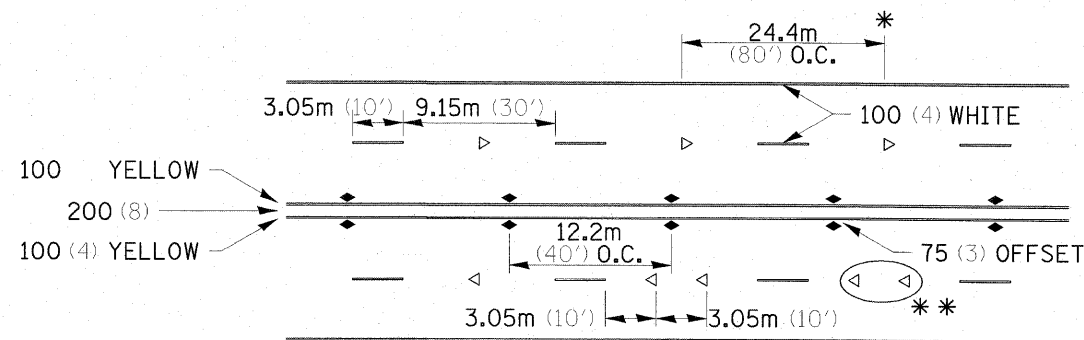
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		DRAWN - JPC	REVISED -		SCALE: NO SCALE	SHEET NO. 9 OF 10 SHEETS	STA. TO STA.	CONTRACT NO. 64428		ILLINOIS FED. AID PROJECT		
		CHECKED - ELH	REVISED -									
		DATE - 3/13/09	REVISED -									

TYPICAL PAVEMENT MARKINGS



* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.
USE DOUBLE MARKERS WHEN ADT \geq 25,000.

MULTI-LANE / DIVIDED



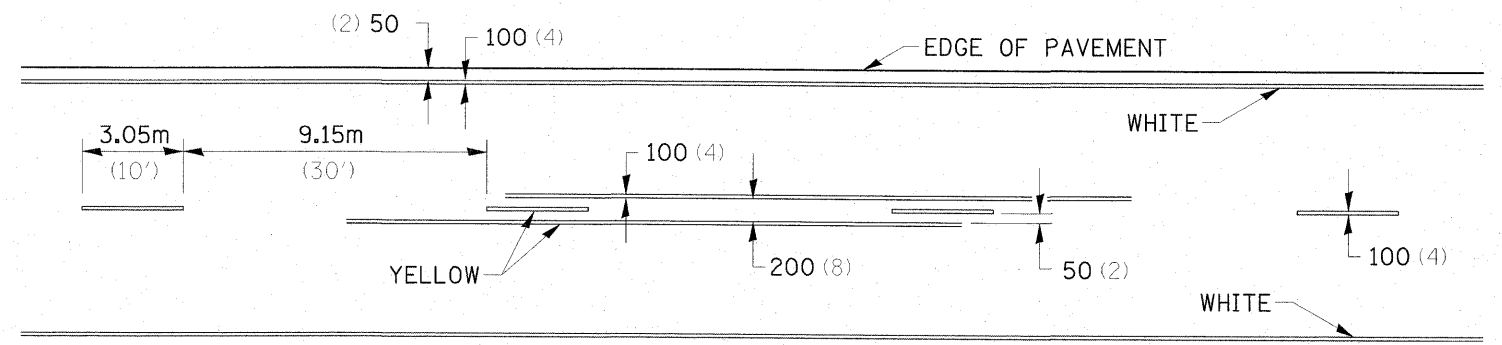
* REDUCE TO 12.2m (40') O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 15Km/H (10MPH) LOWER THAN POSTED SPEEDS.

** USE DOUBLE MARKERS WHEN ADT \geq 25,000

MULTI-LANE / UNDIVIDED

SYMBOLS

TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES



REVISED - 10-21-08

FILE NAME = D264428-shr-detail12.dgn	USER NAME = HAS	DESIGNED - JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 2 STANDARDS		F.A.P. RTE. 638	SECTION 136BR-1, 137-1BR	COUNTY HENRY	TOTAL SHEETS 67	SHEET NO. 67	
	PLOT SCALE = 0.0839' / IN.	DRAWN - JPC	REVISED -		SCALE: NO SCALE	SHEET NO. 10 OF 10 SHEETS	STA.	TO STA.	CONTRACT NO. 64428			
	PLOT DATE = 3/23/2009 1:11:51 PM	CHECKED - ELH	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
		DATE - 3/13/09	REVISED -									