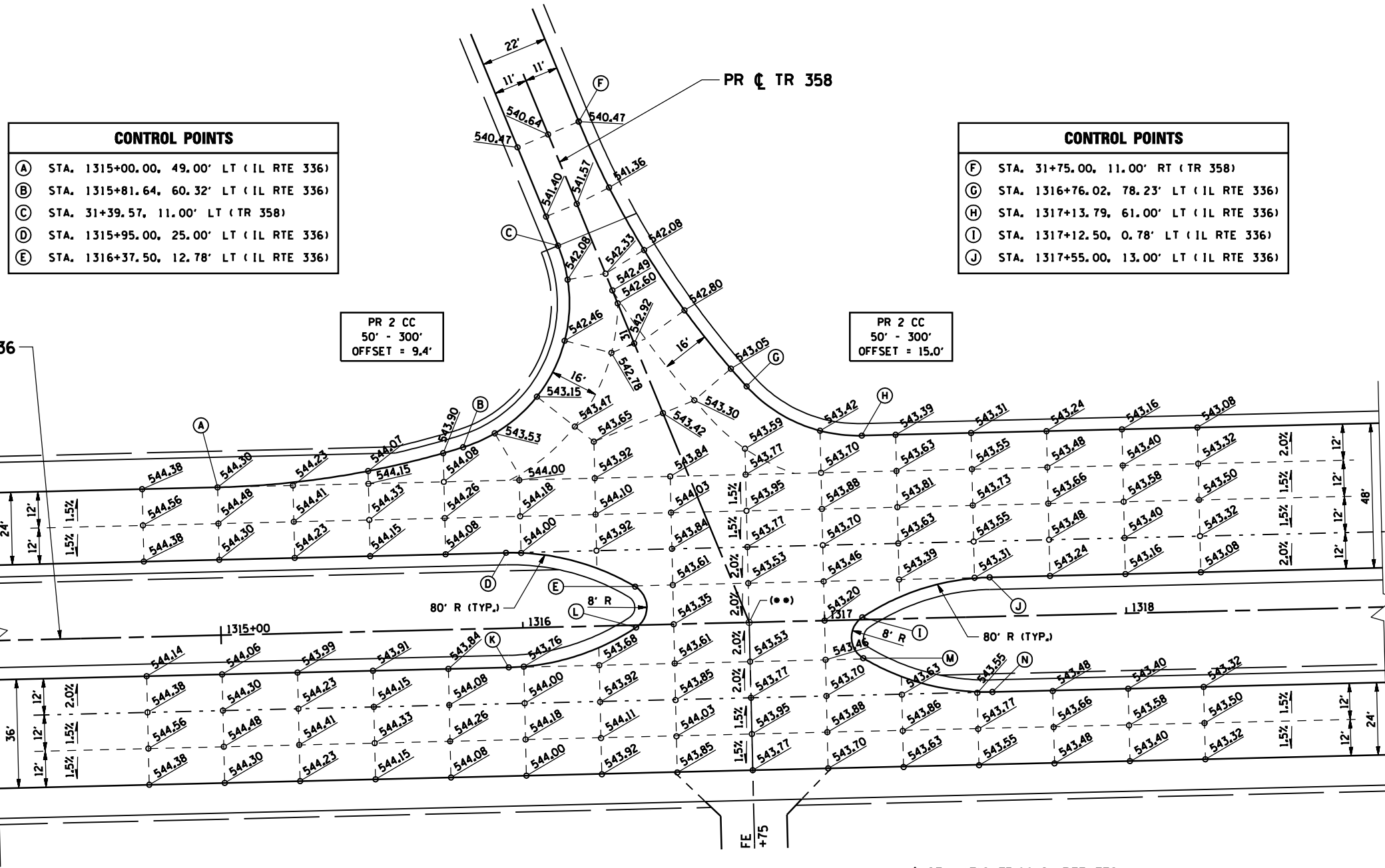
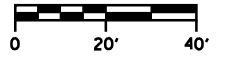


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	201
STA. N/A		TO STA. N/A		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		



CONTROL POINTS	
(A)	STA. 1315+00.00, 49.00' LT (IL RTE 336)
(B)	STA. 1315+81.64, 60.32' LT (IL RTE 336)
(C)	STA. 31+39.57, 11.00' LT (TR 358)
(D)	STA. 1315+95.00, 25.00' LT (IL RTE 336)
(E)	STA. 1316+37.50, 12.78' LT (IL RTE 336)

CONTROL POINTS	
(F)	STA. 31+75.00, 11.00' RT (TR 358)
(G)	STA. 1316+76.02, 78.23' LT (IL RTE 336)
(H)	STA. 1317+13.79, 61.00' LT (IL RTE 336)
(I)	STA. 1317+12.50, 0.78' LT (IL RTE 336)
(J)	STA. 1317+55.00, 13.00' LT (IL RTE 336)

CONTROL POINTS	
(K)	STA. 1315+95.00, 13.00' RT (IL RTE 336)
(L)	STA. 1316+37.50, 0.78' RT (IL RTE 336)
(M)	STA. 1317+12.50, 12.78' RT (IL RTE 336)
(N)	STA. 1317+55.00, 25.00' RT (IL RTE 336)

(••) CL STA. 1316+75.00 IL RTE 336 =
CL STA. 30+00.00 TR 358
EL 543.27

•DGN-SPEC•
•DATE-TIME•
•REF01

D6 PROJECT: FILE:

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

INTERSECTION DETAILS
IL RTE 336 / TR 358

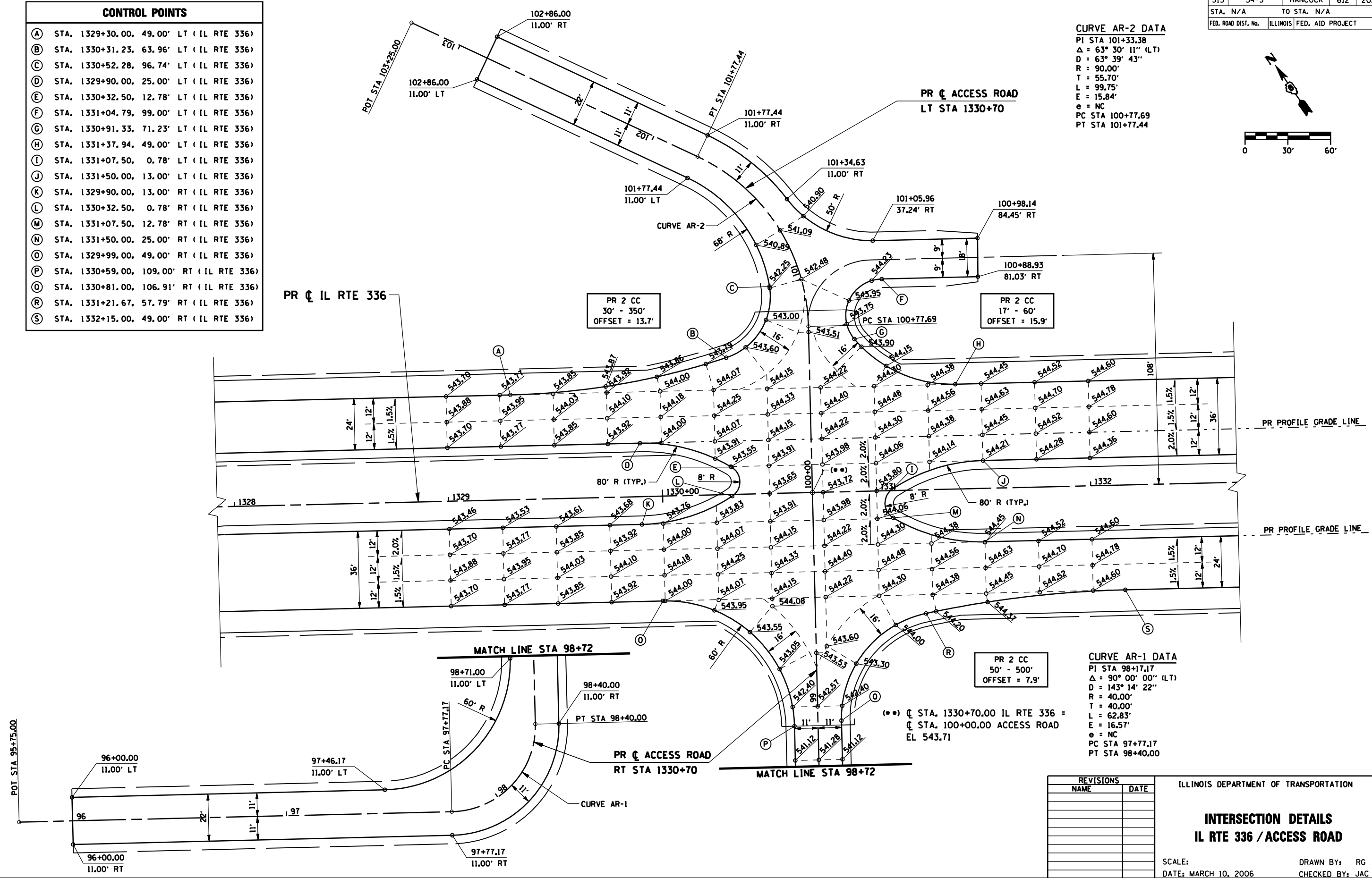
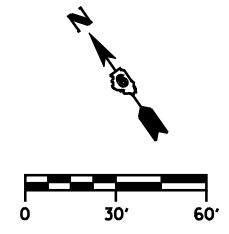
SCALE: DATE: MARCH 10, 2006

DRAWN BY: RG
CHECKED BY: JAC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	202
STA. N/A		TO STA. N/A		
FED. ROAD DIST. No.		ILLINOIS	FED. AID PROJECT	

CONTROL POINTS	
(A)	STA. 1329+30.00, 49.00' LT (IL RTE 336)
(B)	STA. 1330+31.23, 63.96' LT (IL RTE 336)
(C)	STA. 1330+52.28, 96.74' LT (IL RTE 336)
(D)	STA. 1329+90.00, 25.00' LT (IL RTE 336)
(E)	STA. 1330+32.50, 12.78' LT (IL RTE 336)
(F)	STA. 1331+04.79, 99.00' LT (IL RTE 336)
(G)	STA. 1330+91.33, 71.23' LT (IL RTE 336)
(H)	STA. 1331+37.94, 49.00' LT (IL RTE 336)
(I)	STA. 1331+07.50, 0.78' LT (IL RTE 336)
(J)	STA. 1331+50.00, 13.00' LT (IL RTE 336)
(K)	STA. 1329+90.00, 13.00' RT (IL RTE 336)
(L)	STA. 1330+32.50, 0.78' RT (IL RTE 336)
(M)	STA. 1331+07.50, 12.78' RT (IL RTE 336)
(N)	STA. 1331+50.00, 25.00' RT (IL RTE 336)
(O)	STA. 1329+99.00, 49.00' RT (IL RTE 336)
(P)	STA. 1330+59.00, 109.00' RT (IL RTE 336)
(Q)	STA. 1330+81.00, 106.91' RT (IL RTE 336)
(R)	STA. 1331+21.67, 57.79' RT (IL RTE 336)
(S)	STA. 1332+15.00, 49.00' RT (IL RTE 336)

CURVE AR-2 DATA
 PI STA 101+33.38
 $\Delta = 63^\circ 30' 11''$ (LT)
 $D = 63^\circ 39' 43''$
 $R = 90.00'$
 $T = 55.70'$
 $L = 99.75'$
 $E = 15.84'$
 $e = NC$
 PC STA 100+77.69
 PT STA 101+77.44



CURVE AR-1 DATA
 PI STA 98+17.17
 $\Delta = 90^\circ 00' 00''$ (LT)
 $D = 143^\circ 14' 22''$
 $R = 40.00'$
 $T = 40.00'$
 $L = 62.83'$
 $E = 16.57'$
 $e = NC$
 PC STA 97+77.17
 PT STA 98+40.00

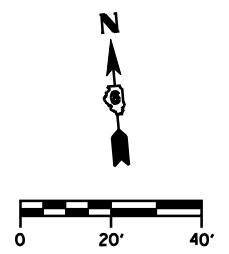
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

INTERSECTION DETAILS
IL RTE 336 / ACCESS ROAD

SCALE: _____ DRAWN BY: RG
 DATE: MARCH 10, 2006 CHECKED BY: JAC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	203
STA. N/A		TO STA. N/A		
FED. ROAD DIST. No.		ILLINOIS FED. AID PROJECT		



CURVE CH5 DATA

PI STA. 42+11.47
 $\Delta = 26^\circ 56' 33''$ (RT)
 D = 12° 50' 00"
 R = 446.46'
 T = 106.95'
 L = 209.94'
 E = 12.63'
 $e = 0.37'$
 T.R. = 27'
 S.E. RUN = 67'
 PC STA. 41+04.52
 PT STA. 43+14.46

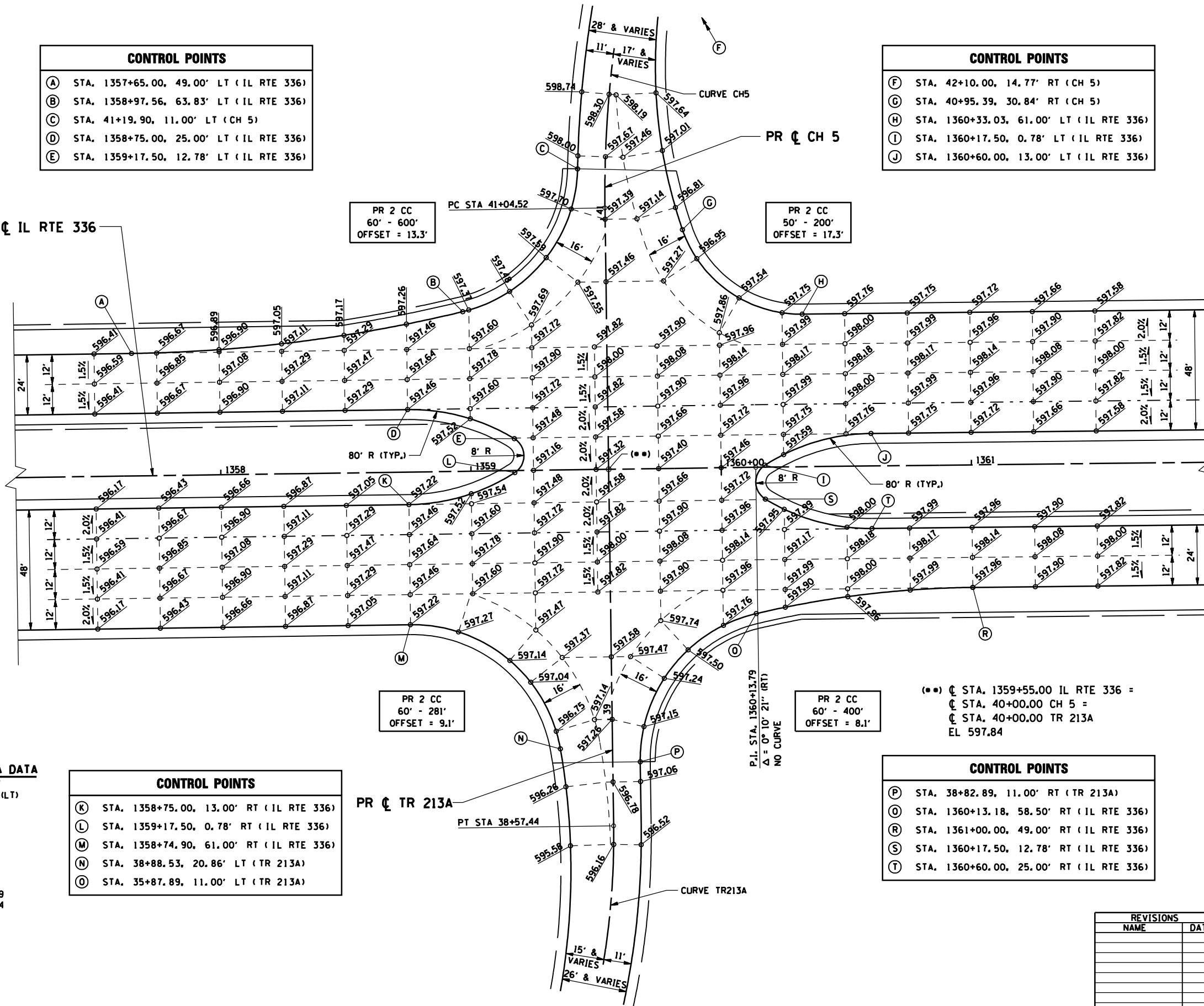
CONTROL POINTS	
(A)	STA. 1357+65.00, 49.00' LT (IL RTE 336)
(B)	STA. 1358+97.56, 63.83' LT (IL RTE 336)
(C)	STA. 41+19.90, 11.00' LT (CH 5)
(D)	STA. 1358+75.00, 25.00' LT (IL RTE 336)
(E)	STA. 1359+17.50, 12.78' LT (IL RTE 336)

CONTROL POINTS	
(F)	STA. 42+10.00, 14.77' RT (CH 5)
(G)	STA. 40+95.39, 30.84' RT (CH 5)
(H)	STA. 1360+33.03, 61.00' LT (IL RTE 336)
(I)	STA. 1360+17.50, 0.78' LT (IL RTE 336)
(J)	STA. 1360+60.00, 13.00' LT (IL RTE 336)

PR \oslash IL RTE 336

PR 2 CC
 60' - 600'
 OFFSET = 13.3'

PR 2 CC
 50' - 200'
 OFFSET = 17.3'



CURVE TR213A DATA

PI STA. 37+31.87
 $\Delta = 49^\circ 51' 55''$ (LT)
 D = 18° 30' 00"
 R = 309.71'
 T = 143.98'
 L = 269.54'
 E = 31.83'
 $e = 4.0'$
 T.R. = 27'
 S.E. RUN = 73'
 PC STA. 35+87.89
 PT STA. 38+57.44

CONTROL POINTS	
(K)	STA. 1358+75.00, 13.00' RT (IL RTE 336)
(L)	STA. 1359+17.50, 0.78' RT (IL RTE 336)
(M)	STA. 1358+74.90, 61.00' RT (IL RTE 336)
(N)	STA. 38+88.53, 20.86' LT (TR 213A)
(O)	STA. 35+87.89, 11.00' LT (TR 213A)

CONTROL POINTS	
(P)	STA. 38+82.89, 11.00' RT (TR 213A)
(Q)	STA. 1360+13.18, 58.50' RT (IL RTE 336)
(R)	STA. 1361+00.00, 49.00' RT (IL RTE 336)
(S)	STA. 1360+17.50, 12.78' RT (IL RTE 336)
(T)	STA. 1360+60.00, 25.00' RT (IL RTE 336)

(***) \oslash STA. 1359+55.00 IL RTE 336 =
 \oslash STA. 40+00.00 CH 5 =
 \oslash STA. 40+00.00 TR 213A
 EL 597.84

REVISIONS	
NAME	DATE

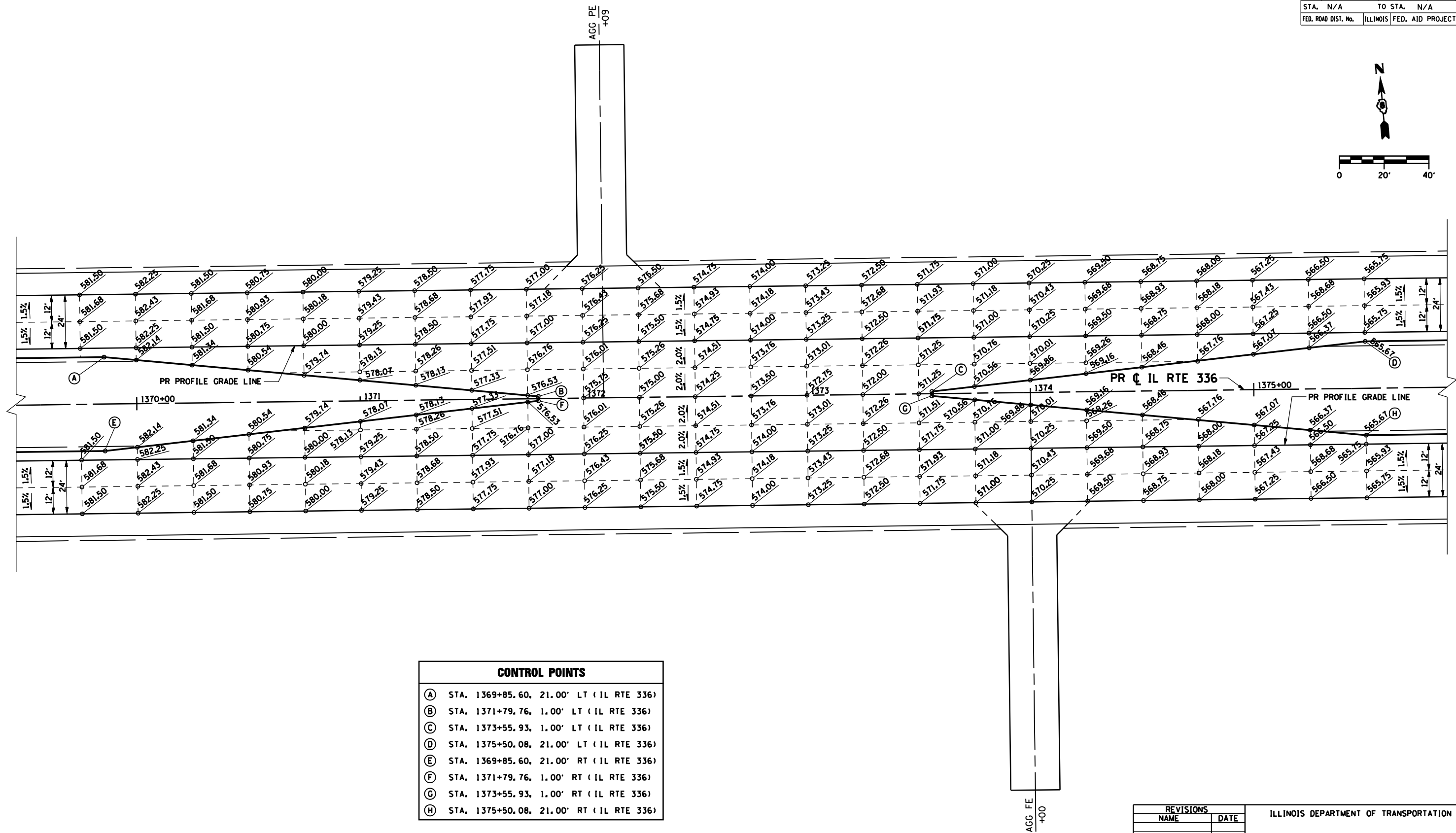
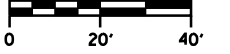
ILLINOIS DEPARTMENT OF TRANSPORTATION

**INTERSECTION DETAILS
 IL RTE 336 / CH 5 / TR 213A**

SCALE:
 DATE: MARCH 10, 2006

DRAWN BY: RG
 CHECKED BY: JAC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	204
STA. N/A	TO STA. N/A			
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		



CONTROL POINTS	
(A)	STA. 1369+85.60, 21.00' LT (IL RTE 336)
(B)	STA. 1371+79.76, 1.00' LT (IL RTE 336)
(C)	STA. 1373+55.93, 1.00' LT (IL RTE 336)
(D)	STA. 1375+50.08, 21.00' LT (IL RTE 336)
(E)	STA. 1369+85.60, 21.00' RT (IL RTE 336)
(F)	STA. 1371+79.76, 1.00' RT (IL RTE 336)
(G)	STA. 1373+55.93, 1.00' RT (IL RTE 336)
(H)	STA. 1375+50.08, 21.00' RT (IL RTE 336)

REVISIONS	
NAME	DATE

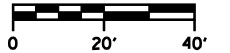
ILLINOIS DEPARTMENT OF TRANSPORTATION

INTERSECTION DETAILS
IL RTE 336 / STA 1372+67.84

SCALE: _____ DRAWN BY: RG
 DATE: MARCH 10, 2006 CHECKED BY: JAC

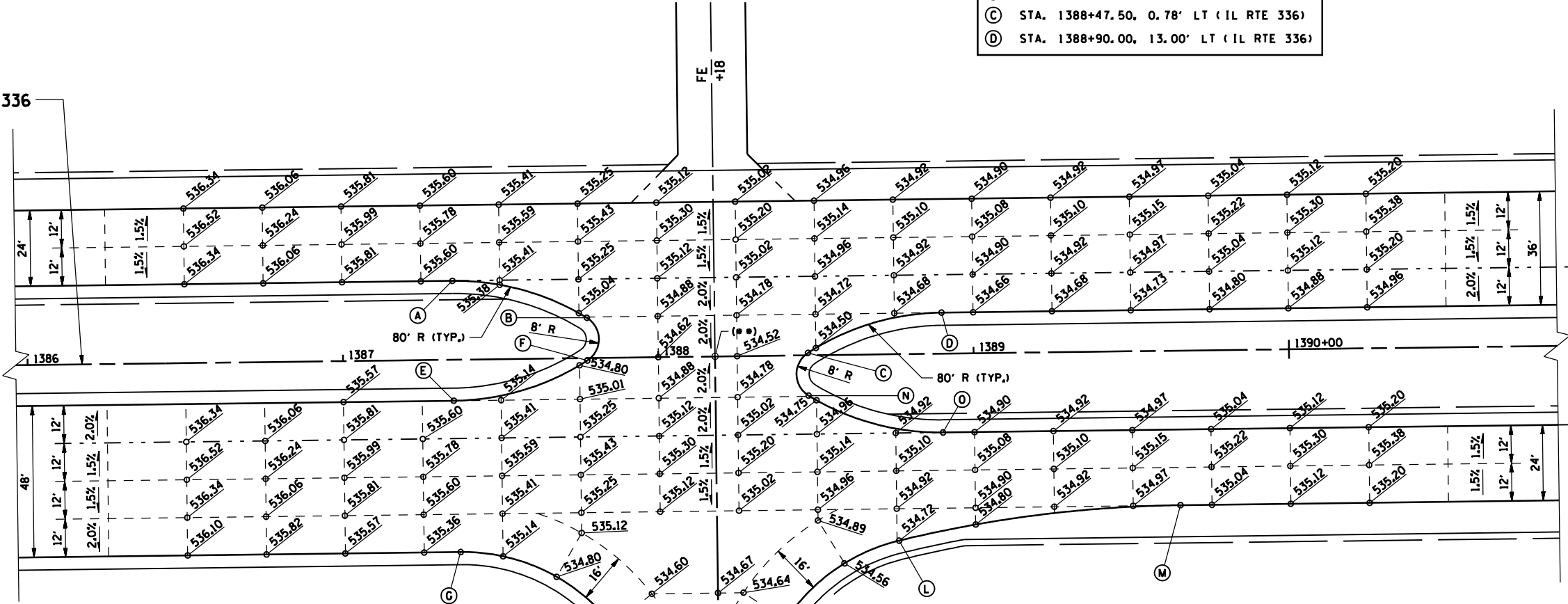
DGN-SPEC
 DATE-TIME
 *REF01

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	205
STA. N/A		TO STA. N/A		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		



CONTROL POINTS	
(A)	STA. 1387+35.00, 25.00' LT (IL RTE 336)
(B)	STA. 1387+77.50, 12.78' LT (IL RTE 336)
(C)	STA. 1388+47.50, 0.78' LT (IL RTE 336)
(D)	STA. 1388+90.00, 13.00' LT (IL RTE 336)

PR \oslash IL RTE 336



PR 2 CC
60' - 180'
OFFSET = 10.5'

PR 2 CC
60' - 400'
OFFSET = 8.6'

(***) \oslash STA. 1388+18.00 IL RTE 336 =
 \oslash STA. 50+00.00 TR 221
EL 534.55

CONTROL POINTS	
(E)	STA. 1387+35.00, 13.00' RT (IL RTE 336)
(F)	STA. 1387+77.50, 0.78' RT (IL RTE 336)
(G)	STA. 1387+36.56, 61.00' RT (IL RTE 336)
(H)	STA. 49+04.17, 26.98' LT (TR 221)
(I)	STA. 48+82.08, 18.50' LT (TR 221)
(J)	STA. 48+32.03, 11.00' LT (TR 221)

CURVE TR221 DATA
 PI STA. 47+71.25
 $\Delta = 3^\circ 50' 48''$ (RT)
 $D = 1^\circ 30' 00''$
 $R = 3,819.72'$
 $T = 128.27'$
 $L = 256.44'$
 $E = 2.15'$
 $\theta = N.C.$
 $T.R. = N/A$
 $S.E. RUN = N/A$
 PC STA. 46+42.98
 PT STA. 48+99.42

CONTROL POINTS	
(K)	STA. 48+82.08, 11.00' RT (TR 221)
(L)	STA. 1388+75.63, 59.11' RT (IL RTE 336)
(M)	STA. 1389+65.00, 49.00' RT (IL RTE 336)
(N)	STA. 1388+47.50, 12.78' RT (IL RTE 336)
(O)	STA. 1388+90.00, 25.00' RT (IL RTE 336)

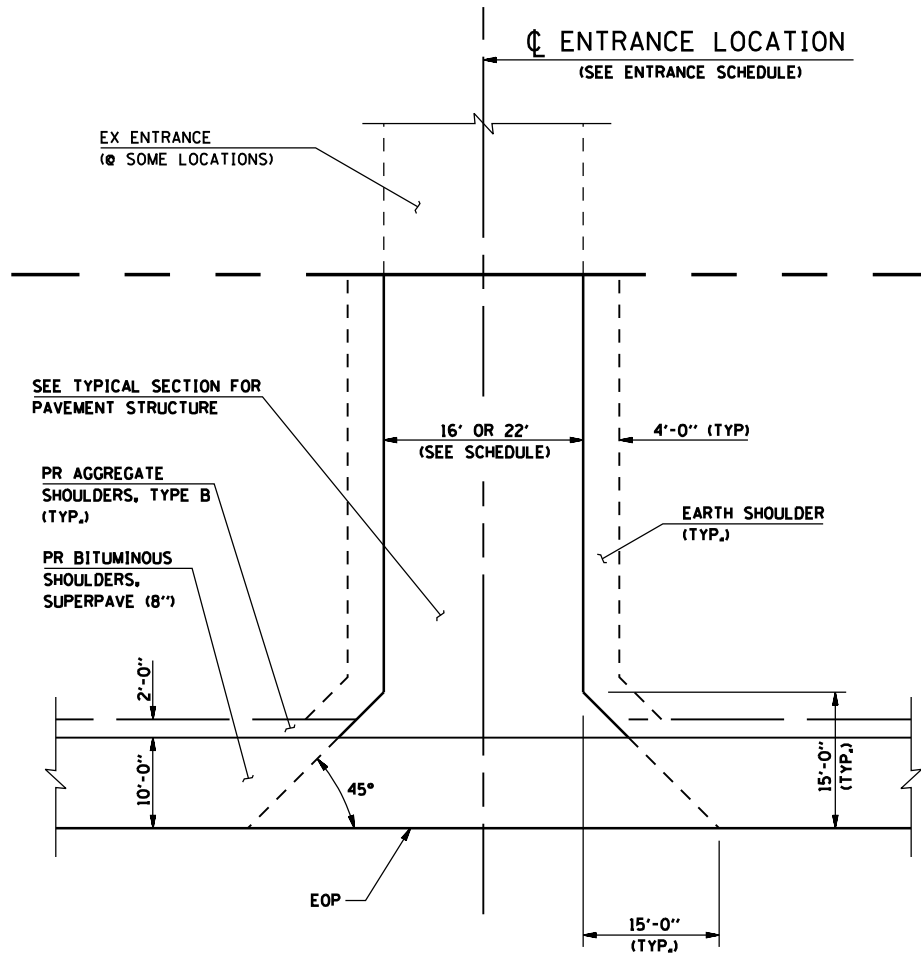
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

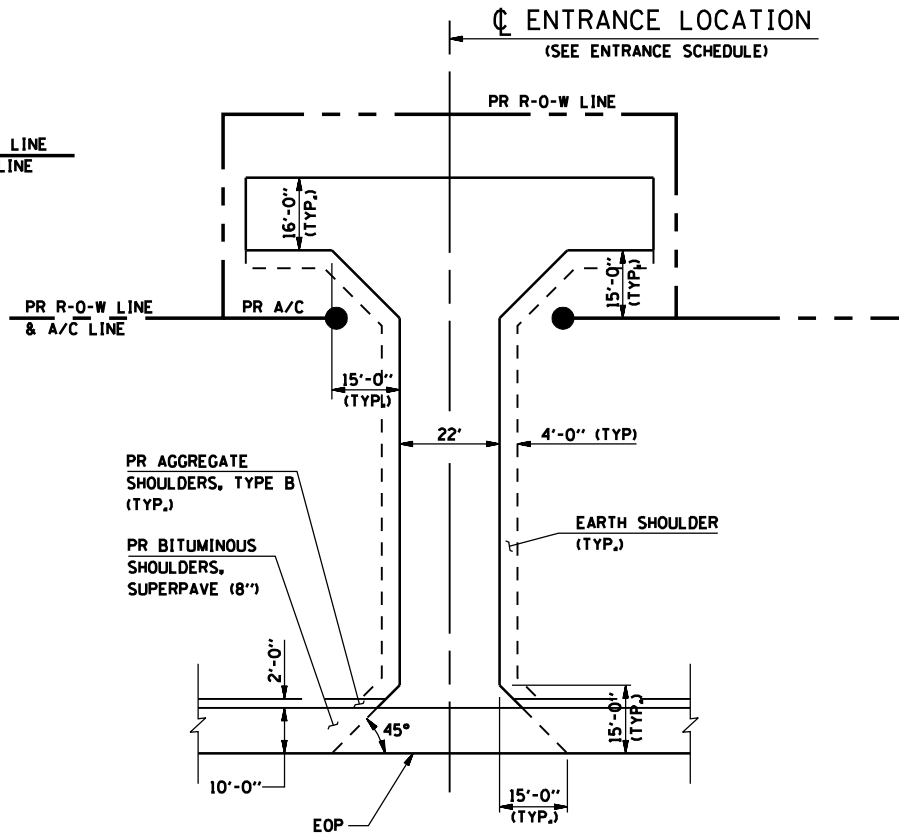
**INTERSECTION DETAILS
IL RTE 336 / TR 221**

SCALE: DATE: MARCH 10, 2006
 DRAWN BY: RG
 CHECKED BY: JAC

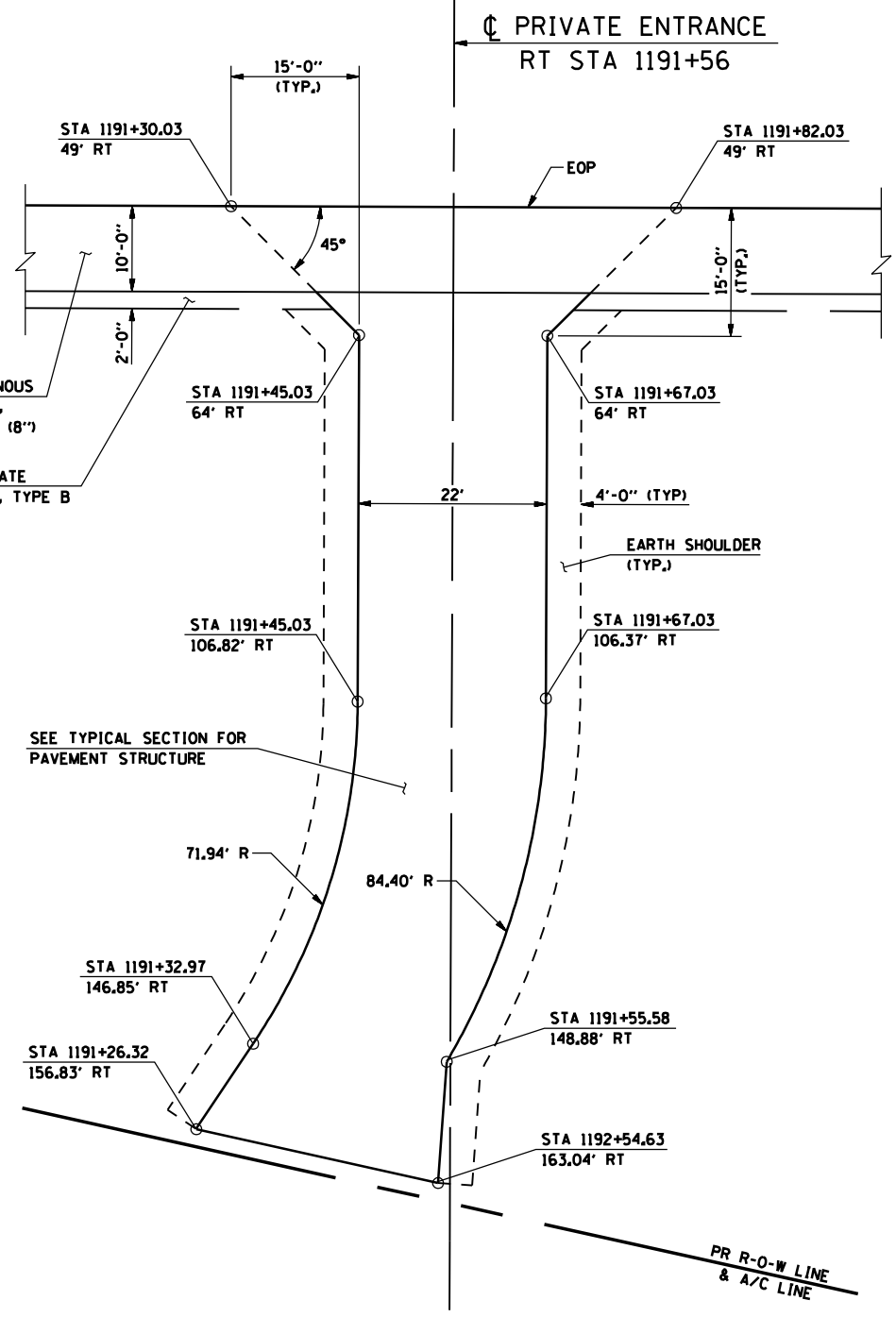
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	206
STA.		TO STA.		
FED. ROAD DIST. No.		ILLINOIS FED. AID PROJECT		



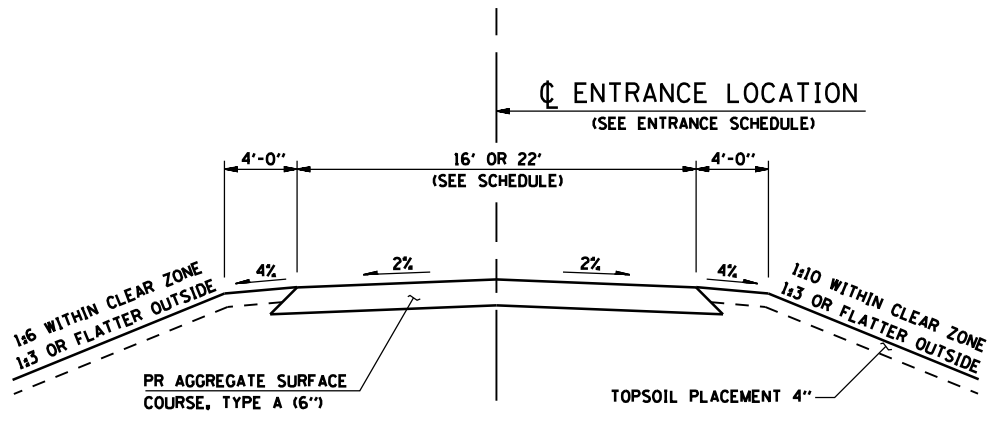
PLAN - PRIVATE ENTRANCE (PE) OR FIELD ENTRANCE (FE)
(SEE SCHEDULE FOR LOCATIONS)



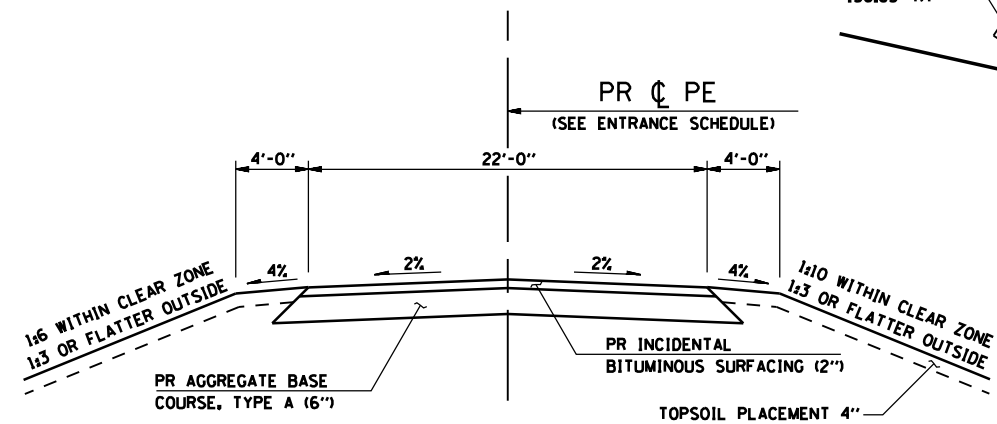
PLAN - SPLIT ACCESS ENTRANCE (FE)
(SEE SCHEDULE FOR LOCATIONS)



PLAN - PRIVATE ENTRANCE (PE)
RT STA 1191+56.00 (IL RTE 336)



TYPICAL SECTION - (PE) OR (FE)
(SEE SCHEDULE FOR LOCATIONS)



TYPICAL SECTION - (PE)
LT STA 16+50.00 (CH 31)
LT STA 1253+22.00 (IL RTE 336)
RT STA 1254+00.00 (IL RTE 336)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

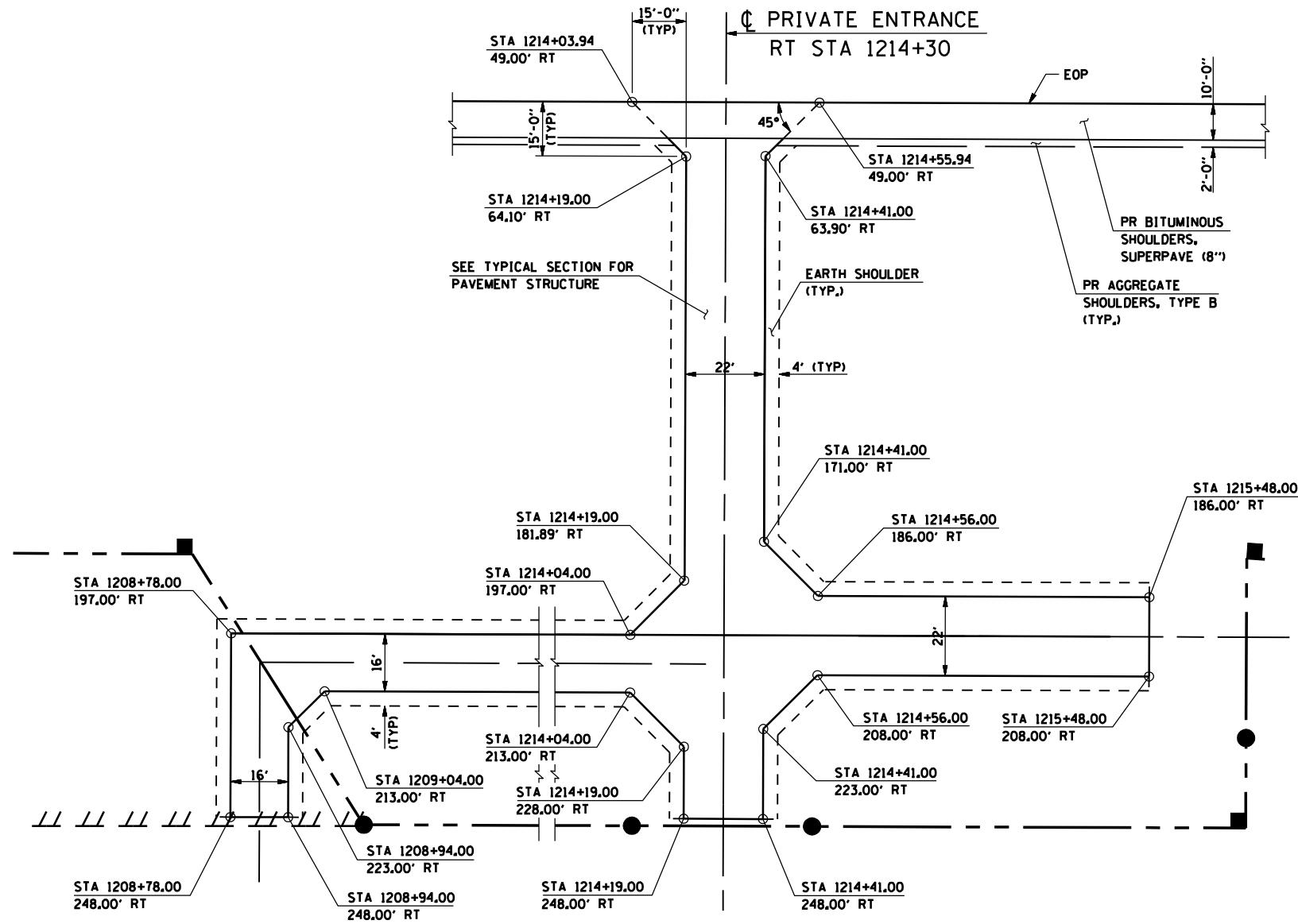
**ENTRANCE DETAILS
IL ROUTE 336**

SCALE: _____
DATE: MARCH 10, 2006

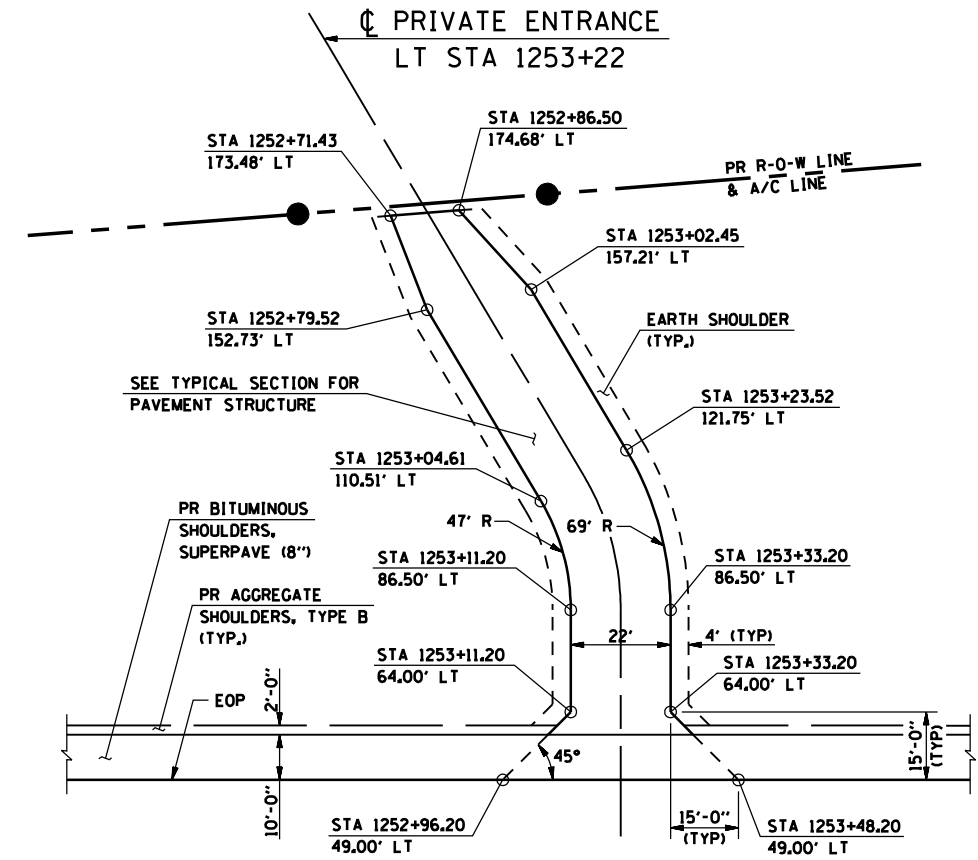
DRAWN BY: RG
CHECKED BY: JAC

•DGN: SPEC*
•DATE: TIME*
•REF: 01

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	207
STA.		TO STA.		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		



PLAN - PRIVATE ENTRANCE (PE)
RT STA 1214+30.00 (IL RTE 336)



PLAN - PRIVATE ENTRANCE (PE)
LT STA 1253+22.00 (IL RTE 336)

REVISIONS	
NAME	DATE

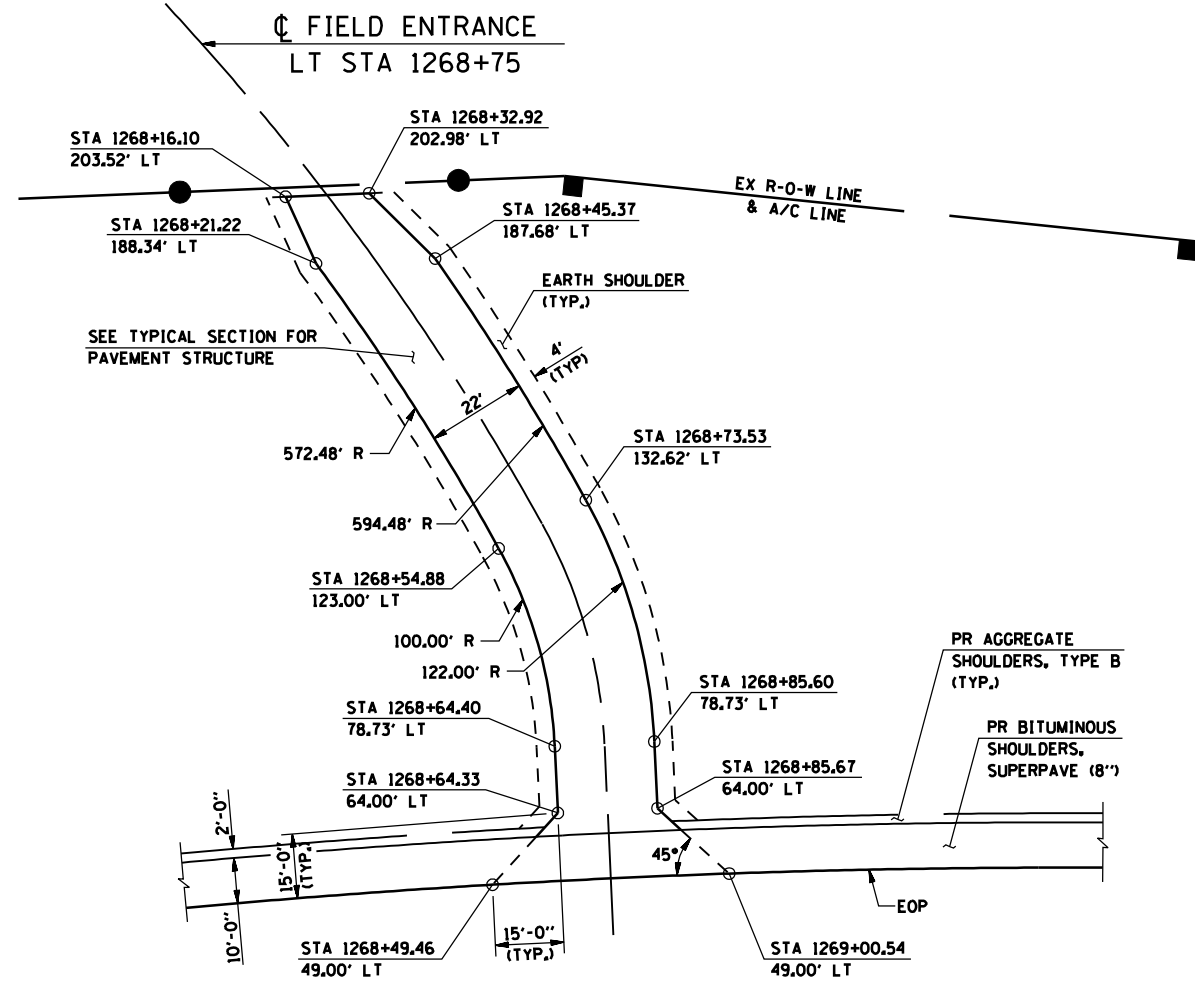
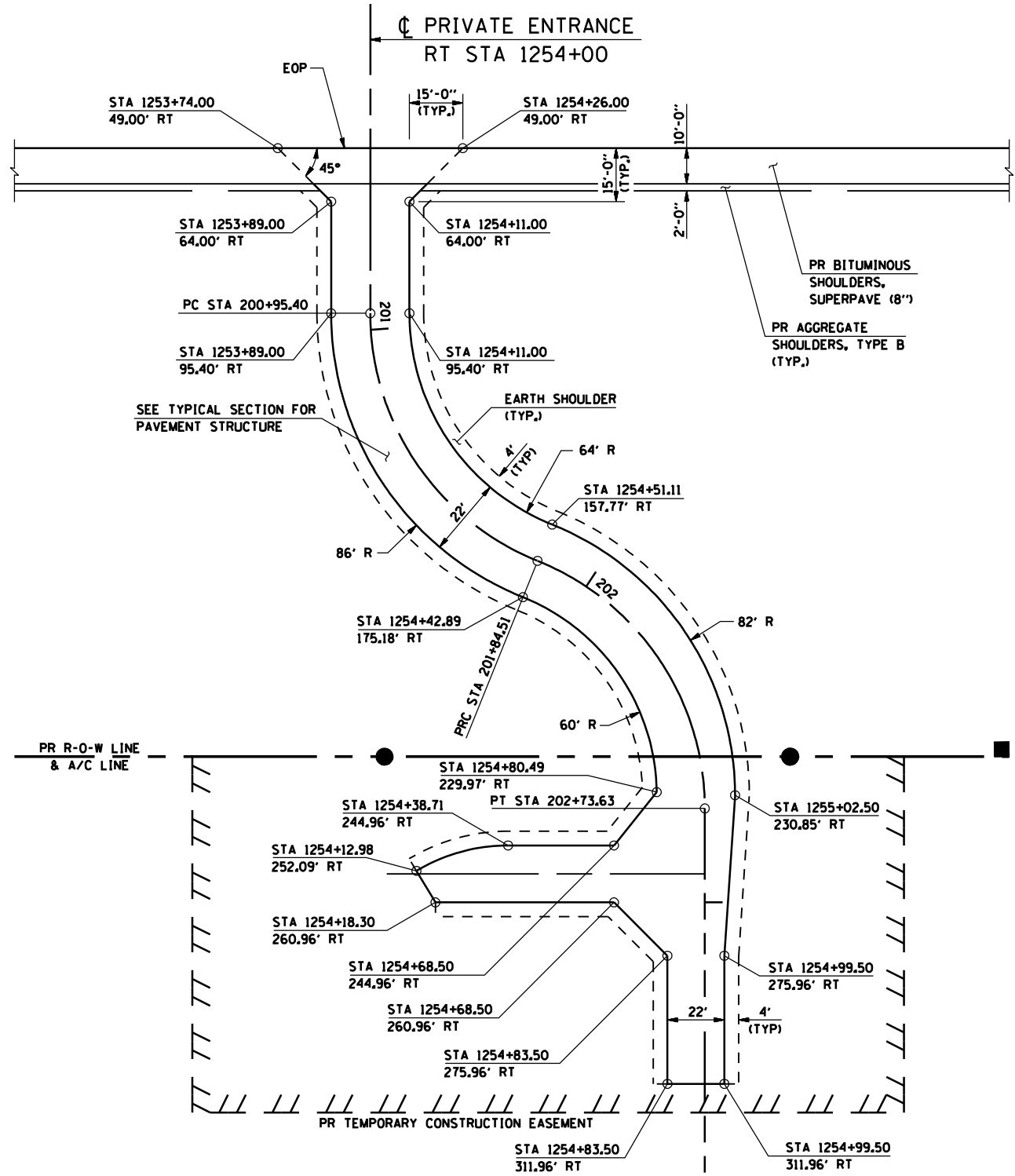
ILLINOIS DEPARTMENT OF TRANSPORTATION

**ENTRANCE DETAILS
IL ROUTE 336**

SCALE:
DATE: MARCH 10, 2006

DRAWN BY: RG
CHECKED BY: JAC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	208
STA.		TO STA.		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		



PLAN - PRIVATE ENTRANCE (PE)
RT STA 1254+00.00 (IL RTE 336)

PLAN - FIELD ENTRANCE (FE)
LT STA 1268+75.00 (IL RTE 336)

REVISIONS	
NAME	DATE

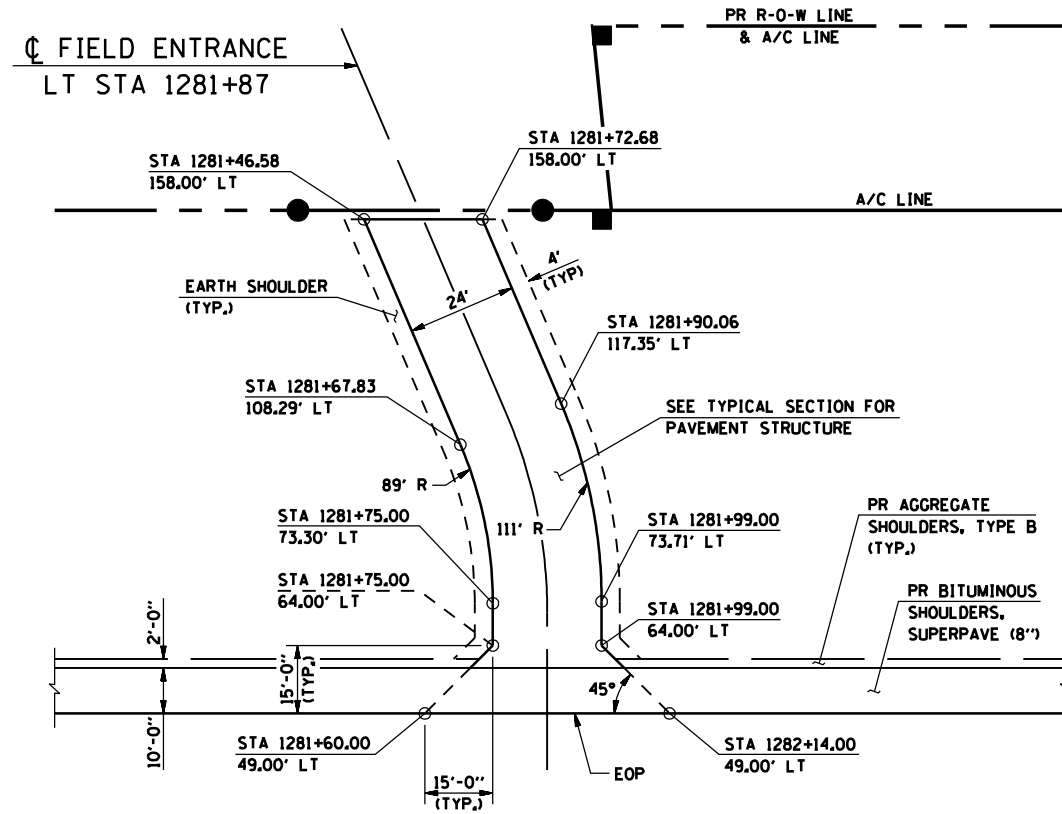
ILLINOIS DEPARTMENT OF TRANSPORTATION

**ENTRANCE DETAILS
IL ROUTE 336**

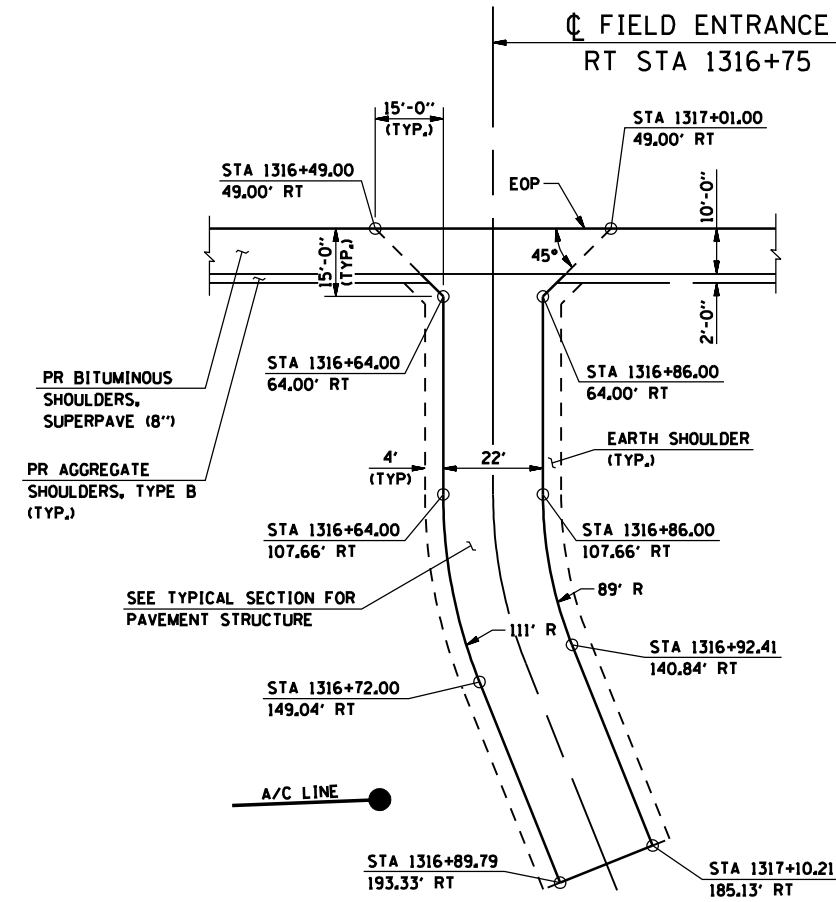
SCALE:
DATE: MARCH 10, 2006

DRAWN BY: RG
CHECKED BY: JAC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	209
STA.		TO STA.		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		



PLAN - FIELD ENTRANCE (FE)
LT STA 1281+87.00 (IL RTE 336)



PLAN - FIELD ENTRANCE (FE)
RT STA 1316+75.00 (IL RTE 336)

DGN-SPEC
DATE-TIME
*REF01

D6 PROJECT: FILE:

REVISIONS	
NAME	DATE

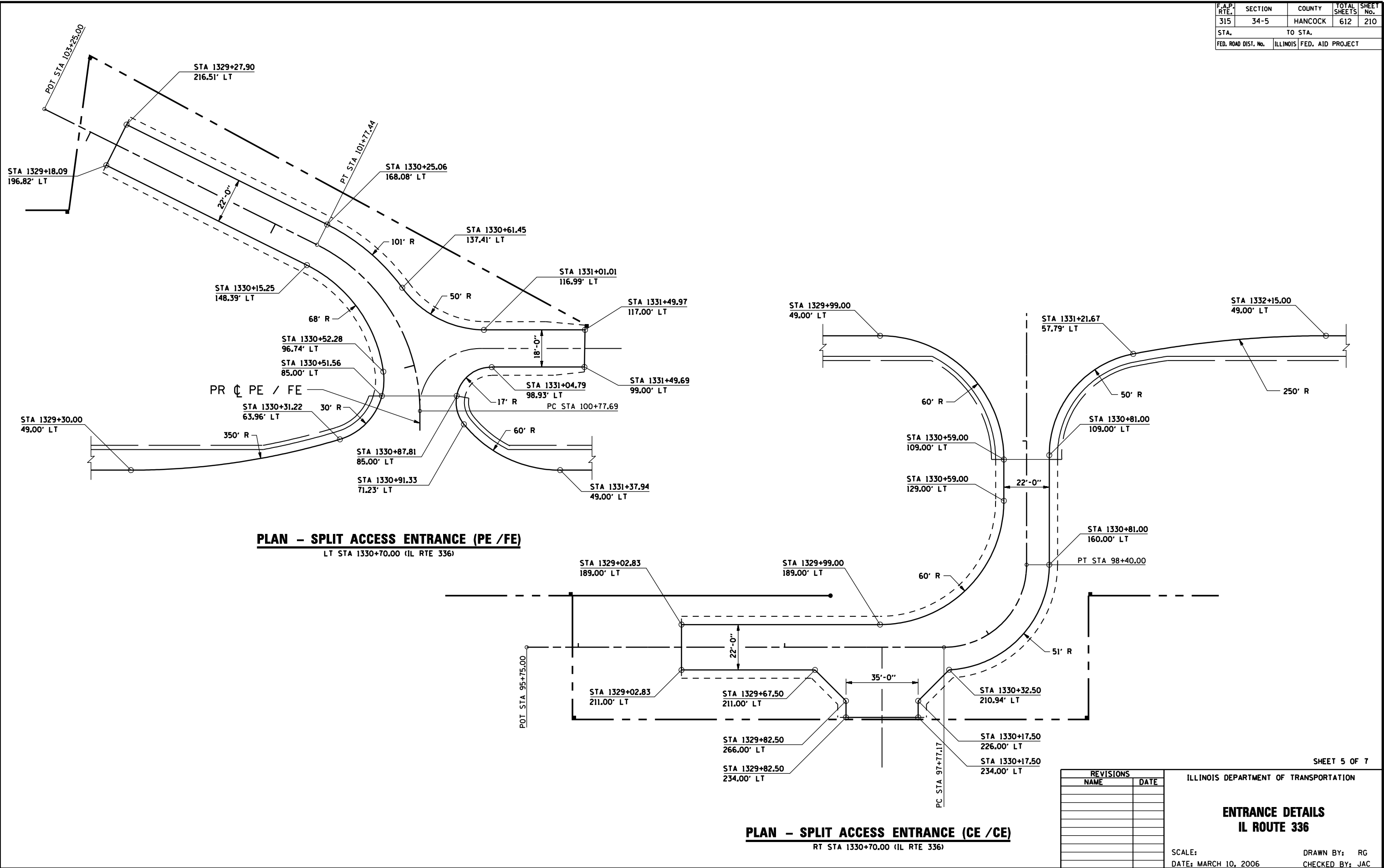
ILLINOIS DEPARTMENT OF TRANSPORTATION

**ENTRANCE DETAILS
IL ROUTE 336**

SCALE:
DATE: MARCH 10, 2006

DRAWN BY: RG
CHECKED BY: JAC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	210
STA.		TO STA.		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		



PLAN - SPLIT ACCESS ENTRANCE (PE / FE)
LT STA 1330+70.00 (IL RTE 336)

PLAN - SPLIT ACCESS ENTRANCE (CE / CE)
RT STA 1330+70.00 (IL RTE 336)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

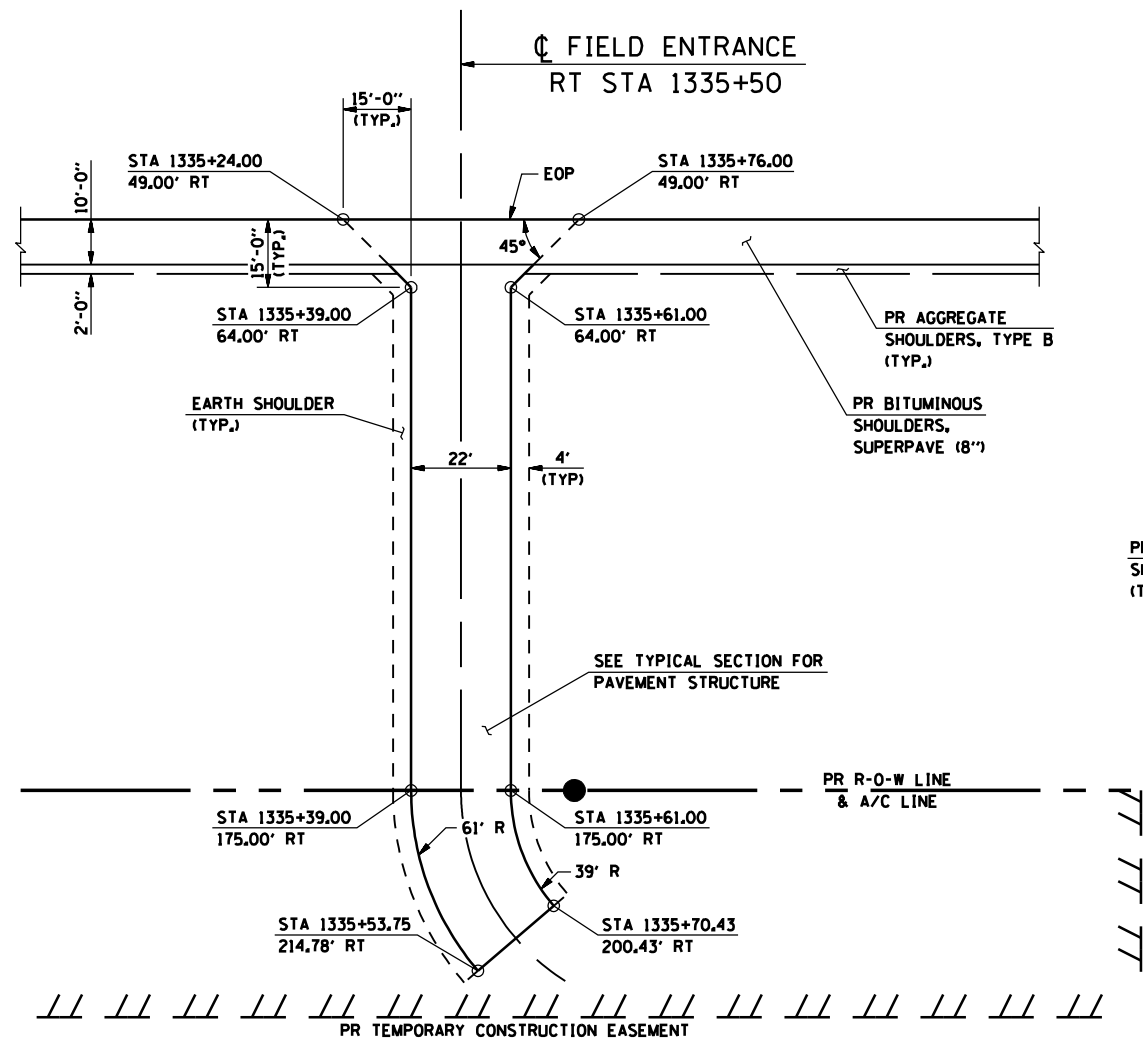
**ENTRANCE DETAILS
IL ROUTE 336**

SCALE: DATE: MARCH 10, 2006

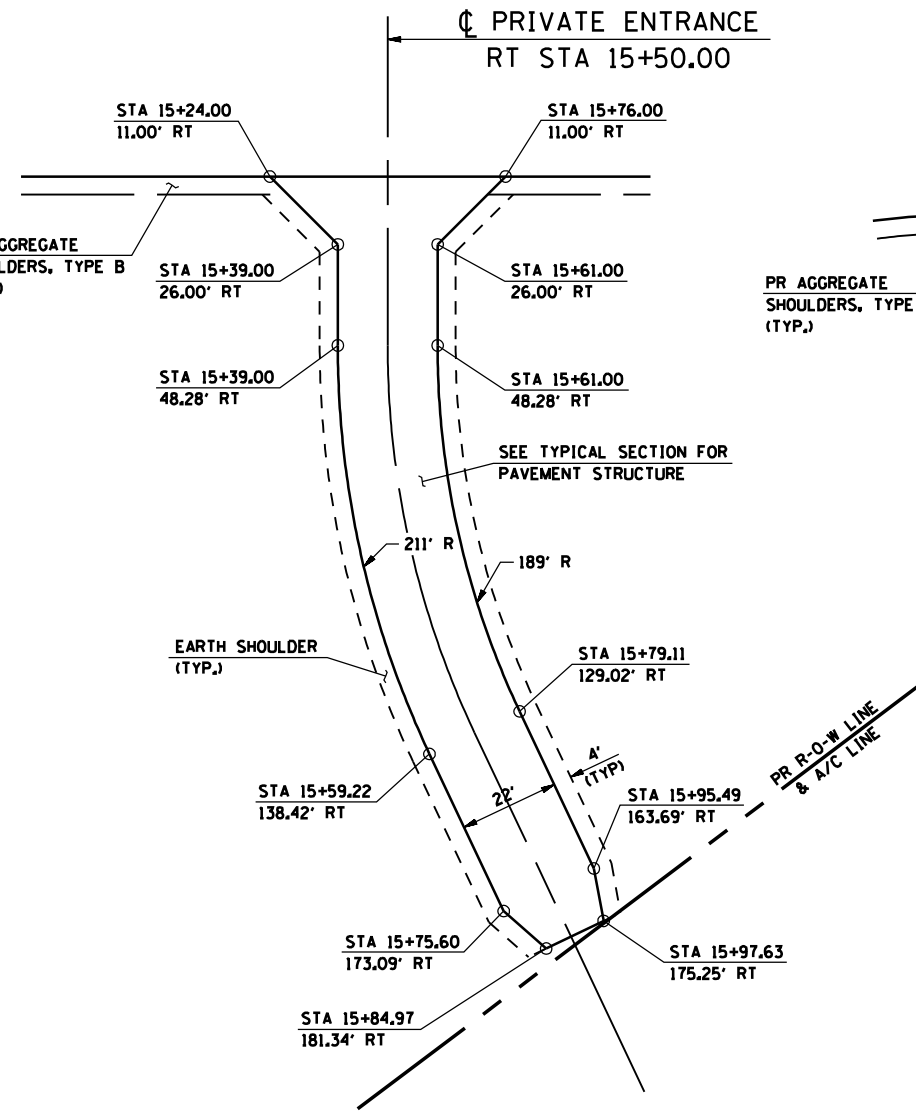
DRAWN BY: RG
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DGN-SPEC
DATE-TIME
*REF01

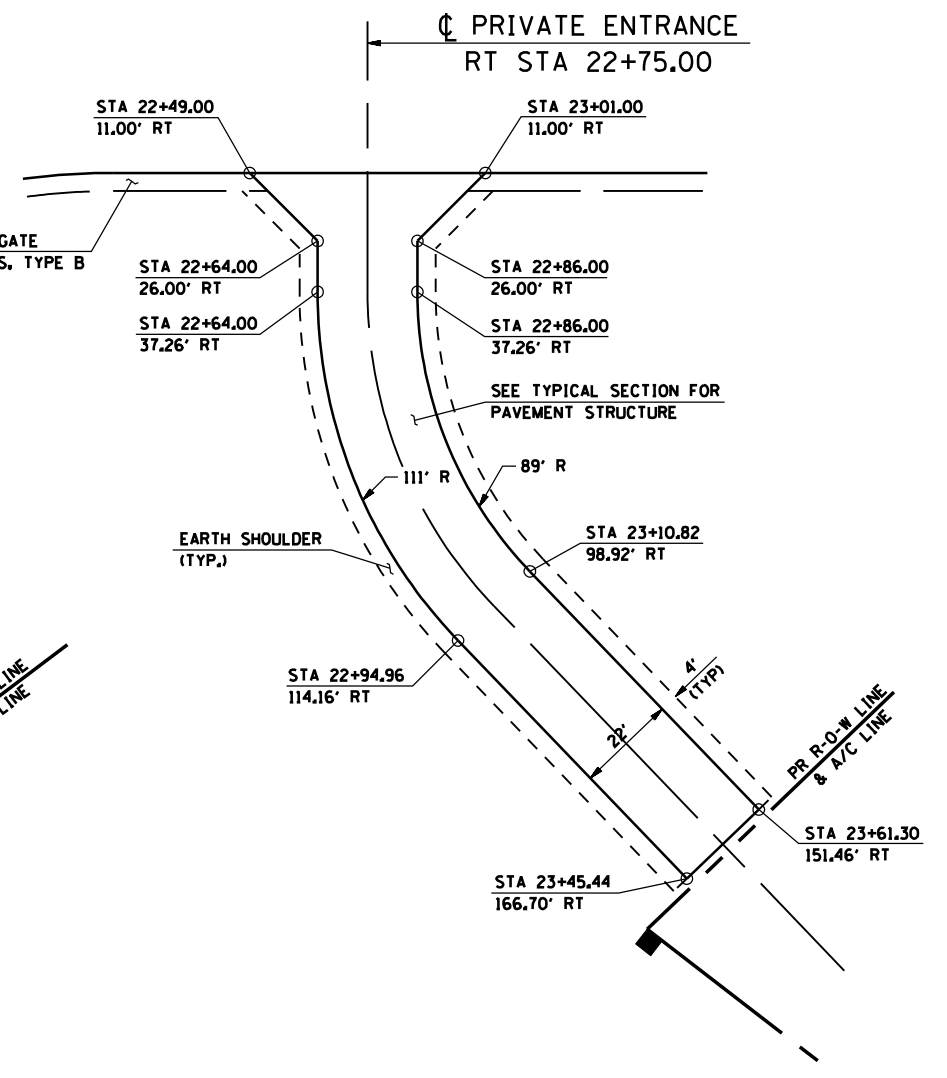
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	211
STA.		TO STA.		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		



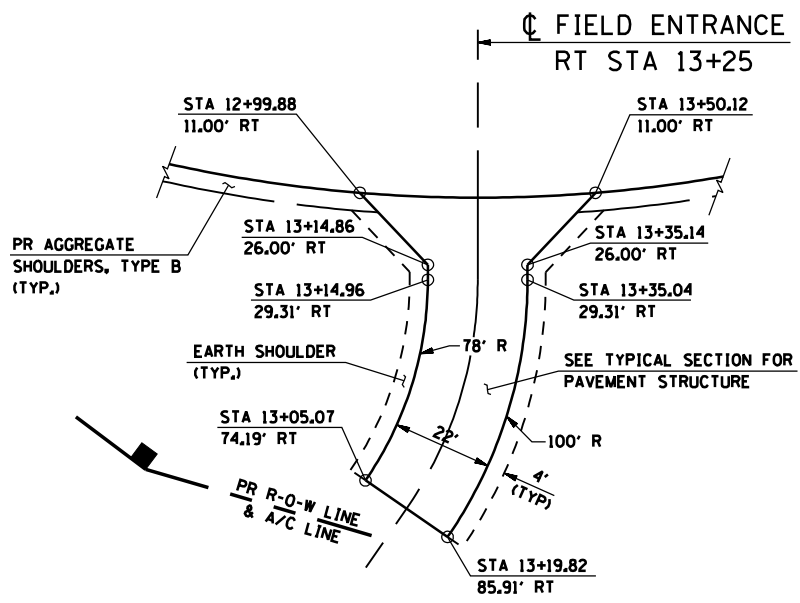
PLAN - FIELD ENTRANCE (FE)
RT STA 1335+50.00 (IL RTE 336)



PLAN - PRIVATE ENTRANCE (PE)
CONTROL POINTS FROM CH 31 ALIGNMENT
RT STA 15+50.00 (IL RTE 336)



PLAN - PRIVATE ENTRANCE (PE)
CONTROL POINTS FROM TR 320 ALIGNMENT
RT STA 22+75.00 (IL RTE 336)



PLAN - FIELD ENTRANCE (FE)
CONTROL POINTS FROM CH 31 ALIGNMENT
RT STA 13+25 (IL RTE 336)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

ENTRANCE DETAILS
IL ROUTE 336

SCALE: _____
DATE: MARCH 10, 2006

DRAWN BY: RG
CHECKED BY: JAC

DGN-SPEC
DATE-TIME
*REF01

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	212
STA.		TO STA.		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		

ENTRANCE SCHEDULE													
NOTE	STATION	LT	RT	TYPE	WIDTH (FT)	AREA (SQ YD)	35100100	40200100	40300200	40800040	44000200	20000990	
							AGG BASE CSE, TY A (TON)	AGG SURF CSE, TY A (TON)	BIT MAT'L (PRIME CT) (TON)	INCIDENTAL BIT SURF (TON)	DRIVEWAY PAVT REM (SQ YD)	AGG FOR TEMP ACCESS (SQ YD)	
(1)	1174+50		X	FE	22	164	----	56	----	----	----	20	
	1181+17.5	X		FE	22	206	----	71	----	----	----	20	
	1191+56		X	PE	22	260	----	89	----	29	----	20	
	1202+00	X		FE (a)	22	435	----	149	----	----	----	20	
	1202+04		X	FE	22	282	----	97	----	----	----	20	
	1208+90		X	FE	16	285	----	98	----	----	----	20	
	1214+30		X	FE (a)	22	740	----	253	----	----	----	20	
	1230+00		X	PE	18	10	----	----	----	----	10	----	20
	11+00	X		FE (b)	22	85	----	29	----	----	----	----	20
	13+25		X	FE (b)	22	204	----	70	----	----	----	----	20
15+50		X	PE (b)	22	456	----	156	----	----	----	----	20	
(1)/(2)	16+50	X		PE (b)	22	1,611	----	551	3	181	----	20	
(1)	22+75	X		FE (c)	22	372	----	127	----	----	----	20	
	22+75		X	FE (c)	22	455	----	156	----	----	----	20	
	1253+22	X		PE	22	301	103	----	1	34	99	20	
(1)/(3)	1254+00		X	PE (d)	22	682	233	----	1	77	----	20	
	202+91		X		16	136	----	47	----	----	----	20	
(1)	1268+75	X		FE	22	383	----	131	----	----	----	20	
	1281+87	X		FE	22	280	----	96	----	----	----	20	
	1281+87		X	FE	22	467	----	160	----	----	----	20	
	1291+65	X		FE	22	290	----	100	----	----	----	20	
	1303+00		X	FE	22	351	----	120	----	----	----	20	
	1316+75		X	FE	22	332	----	114	----	----	----	20	
	1330+70		X	FE	22	778	----	266	----	----	----	20	
	1330+70	X		PE/FE (a)	22	696	----	238	----	----	----	20	
	1335+50		X	FE	22	376	----	129	----	----	----	20	
	35+50	X		FE (e)	22	83	----	29	----	----	----	20	
	35+50		X	FE (e)	22	103	----	36	----	----	----	20	
	43+70	X		FE (f)	22	129	----	44	----	----	----	20	
	44+00		X	FE (f)	22	121	----	42	----	----	----	20	
	1363+00		X	FE	22	213	----	73	----	----	----	20	
	1372+09	X		PE	22	245	----	84	----	----	----	20	
	1374+00		X	FE	22	294	----	101	----	----	----	20	
	1388+18	X		FE (a)	22	447	----	153	----	----	----	20	
	45+74	X		FE (g)	22	122	----	42	----	----	----	20	
	45+74		X	FE (g)	22	111	----	38	----	----	----	20	
1397+05	X		FE	22	229	----	79	----	----	----	20		
TOTAL							336	4,024	5	292	138	740	
USE							336	4,024	5	292	138	1,000	

(a)	SPLIT ACCESS ENTRANCE - SEE DETAILS
(b)	ENTRANCE LOCATED ON CH 31
(c)	ENTRANCE LOCATED ON TR 320
(d)	THIS LOCATION ALSO HAS AN AGGREGATE ACCESS ENTRANCE LOCATED AT RT STA 202+00 ALONG ITS ALIGNMENT
(e)	ENTRANCE LOCATED ON TR 213
(f)	ENTRANCE LOCATED ON CH 5
(g)	ENTRANCE LOCATED ON TR 221

NOTES

- (1) ALL ENTRANCES ARE PROFILED IN THE CROSS SECTIONS.
- (2) FOR THE ENTRANCE AT LT STA 16+50 ON CH 31, ADDITIONAL DESIGN DETAIL CAN BE FOUND ON "PLAN AND PROFILE SHEET - PE LT STA 16+50 (CH 31)" AS WELL AS "CROSS SECTIONS - PE LT STA 16+50 (CH 31)". SEE INDEX OF SHEETS FOR LOCATION.
- (3) FOR THE ENTRANCE AT RT STA 1254+00 ON IL RTE 336, ADDITIONAL DESIGN DETAIL CAN BE FOUND ON "PLAN AND PROFILE SHEET - PE RT STA 1254+00 (IL RTE 336)" AS WELL AS "CROSS SECTIONS - PE RT STA 1254+00 (IL RTE 336)". SEE INDEX OF SHEETS FOR LOCATION.

REVISIONS	
NAME	DATE

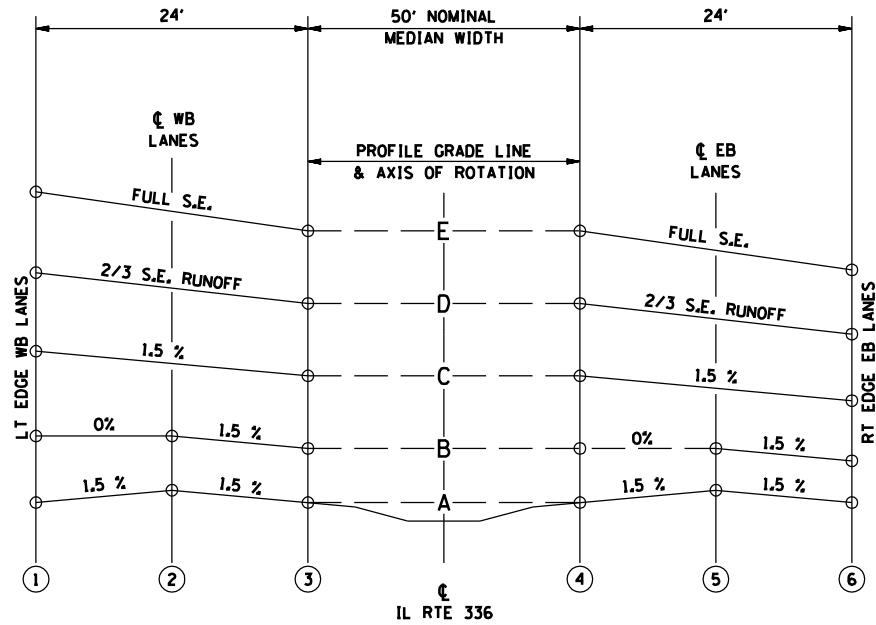
ILLINOIS DEPARTMENT OF TRANSPORTATION

**ENTRANCE DETAILS
IL ROUTE 336**

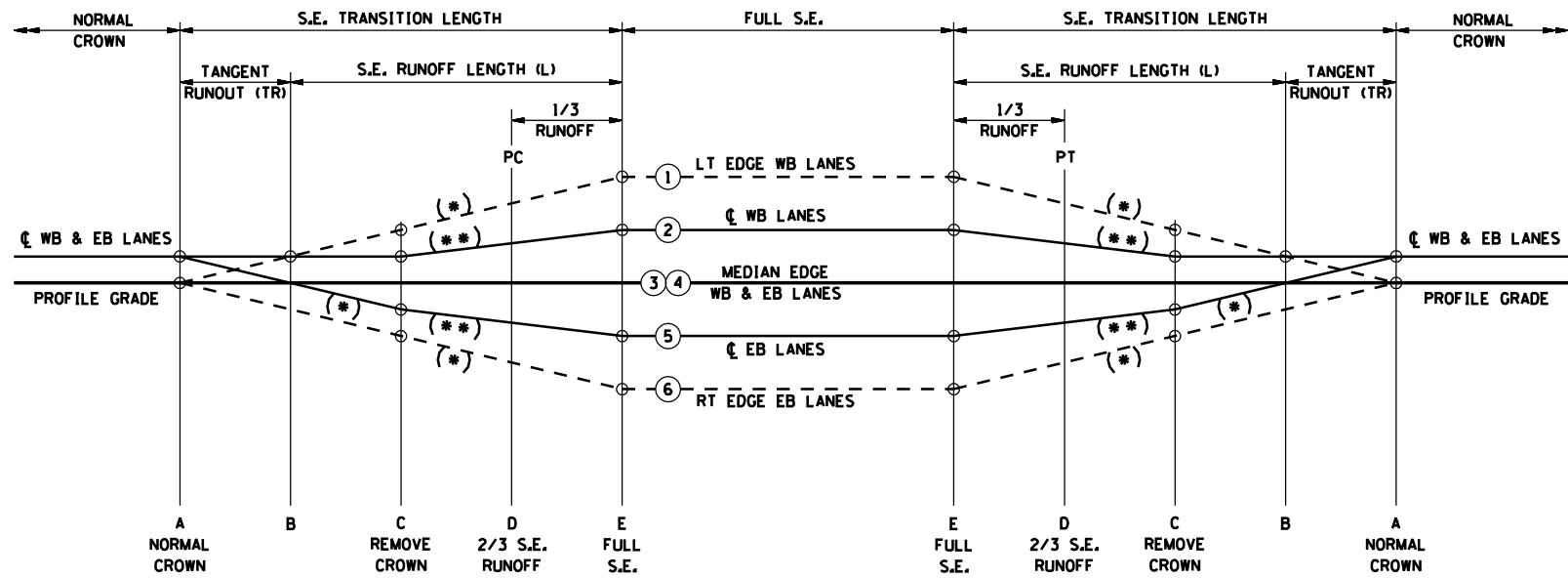
SCALE: DATE: MARCH 10, 2006

DRAWN BY: RG
CHECKED BY: JAC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	213
STA.		TO STA.		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		



TYPICAL CROSS SECTION - S.E. TRANSITION



TYPICAL PROFILE - S.E. TRANSITION

NOTE:
DETAILS SHOWN FOR CURVE TO RIGHT, REVERSE FOR CURVE TO LEFT.

LOCATION OF SUPERELEVATION TRANSITIONS (STA)										
CURVE	RADIUS	REQ'D. S.E.	TR	L	A	B	C	PC	D	E
					1228+97.02	1229+36.02	1229+75.02		1231+16.02	1232+06.02
C1	2,100.46'	6.0%	39'	270'	1247+37.30	1246+98.30	1246+59.30	PT	1245+18.30	1244+28.30
					1253+60.53	1253+99.53	1254+38.53	PC	1255+79.53	1256+69.53
C2	2,100.46'	6.0%	39'	270'	1278+80.92	1278+41.92	1278+02.92	PT	1276+61.92	1275+71.92
					1287+86.38	1288+25.38	1288+64.38	PC	1290+05.38	1290+95.38
C3	2,100.46'	6.0%	39'	270'	1298+21.59	1297+82.59	1297+43.59	PT	1296+02.59	1295+12.59
					---	---	---	PC	1303+95.28	---
C4	27,501.97'	NC	---	---	---	---	---	PT	1310+86.88	---
					1340+72.19	1341+11.19	1341+50.19	PC	1342+88.52	1343+77.19
C5	2,296.94'	5.9%	39'	266'	1356+84.29	1356+45.29	1356+06.29	PT	1354+67.96	1353+79.29
					1394+41.99	1394+80.99	1395+19.99	PC	1396+58.32	1397+46.99
C6	2,246.89'	5.9%	39'	266'	1405+20.54	1404+81.54	1404+42.54	PT	1403+04.21	1402+15.54

S.E. TRANSITION RATE		
CURVE	(*) RATE	(***) RATE
C1	0.004667	0.002333
C2	0.004667	0.002333
C3	0.004667	0.002333
C4	N/A	N/A
C5	0.004647	0.002324
C6	0.004647	0.002324

* CURVE C3 INFORMATION SHOWN HERE FOR WEST BOUND LANES ONLY. SEE "SUPPLEMENTAL DETAILS" FOR SUPERELEVATION LAYOUT OF EAST BOUND LANES FROM STA 1286+64.05 TO STA 1299+41.93

DGN-SPEC
DATE-TIME
*REF01

D6 PROJECT: FILE:

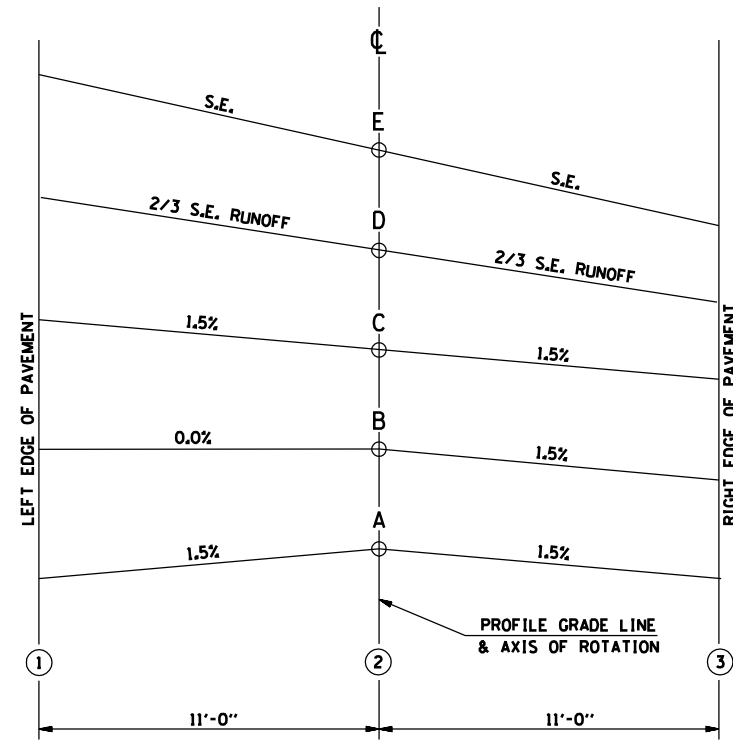
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

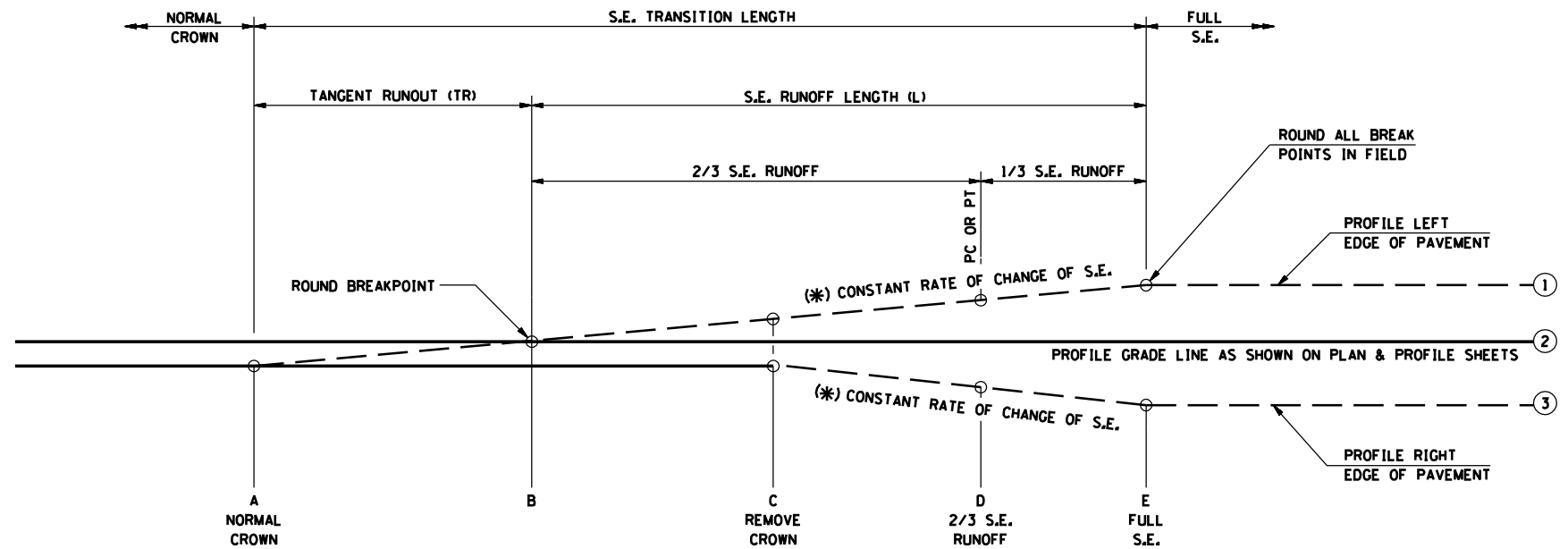
**MAINLINE
SUPERELEVATION
TRANSITION DETAILS**

SCALE: DATE: MARCH 10, 2006 DRAWN BY: RG CHECKED BY: JAC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	214
STA.		TO STA.		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		



TYPICAL CROSS SECTION - S.E. TRANSITION



TYPICAL PROFILE - S.E. TRANSITION

NOTE:
DETAILS SHOWN FOR CURVE TO RIGHT, REVERSE FOR CURVE TO LEFT.

LOCATION OF SUPERELEVATION TRANSITIONS (STA.)										
CURVE	RADIUS	Rad / e	Rad / e	REQ'D. S.E.	A	B	C		D	E
TR302	305.00'	27'	73'	4.0%	(1)	(1)	(1)	PC	11+44.74	11+69.07
					13+36.60	13+09.60	12+82.60	PT	12+60.93	12+36.60
TR320	305.00'	27'	73'	4.0%	(2)	(2)	(2)	PC	21+07.50	21+31.83
					22+94.55	22+67.55	22+40.55	PT	22+18.88	21+94.55
CH31-1	305.00'	27'	73'	4.0%	(3)	(3)	(3)	PC	11+29.33	11+53.66
					14+90.71	14+63.71	14+36.71	PT	14+15.04	13+90.71
CH31-2	305.00'	27'	73'	4.0%	(4)	(4)	(4)	PC	16+13.44	16+37.77
					15+37.77	15+64.77	15+91.77	PT	18+00.16	17+75.83
CH5	446.46'	27'	67'	3.7%	(4)	(4)	(4)	PC	41+04.52	41+26.85
					43+86.13	43+59.13	43+32.13	PT	43+14.46	42+92.13
TR213A	309.71'	27'	73'	4.0%	(5)	(5)	(5)	PC	35+87.89	36+12.22
					35+12.22	35+39.22	35+66.22	PT	38+57.44	38+33.11

S.E. TRANSITION RATE	
CURVE	(*) RATE
TR302	0.006050
TR320	0.006050
CH31-1	0.006050
CH31-2	0.006050
CH5	0.006085
TR213A	0.006050

- (1) TRANSITION FROM MAINLINE PAVEMENT - SEE "INTERSECTION DETAILS - TR 302"
- (2) TRANSITION FROM MAINLINE PAVEMENT - SEE "INTERSECTION DETAILS - TR 320"
- (3) TRANSITION FROM MAINLINE PAVEMENT - SEE "INTERSECTION DETAILS - CH 31"
- (4) TRANSITION FROM MAINLINE PAVEMENT - SEE "INTERSECTION DETAILS - CH 5"
- (5) TRANSITION FROM MAINLINE PAVEMENT - SEE "INTERSECTION DETAILS - TR 213"

REVISIONS	
NAME	DATE

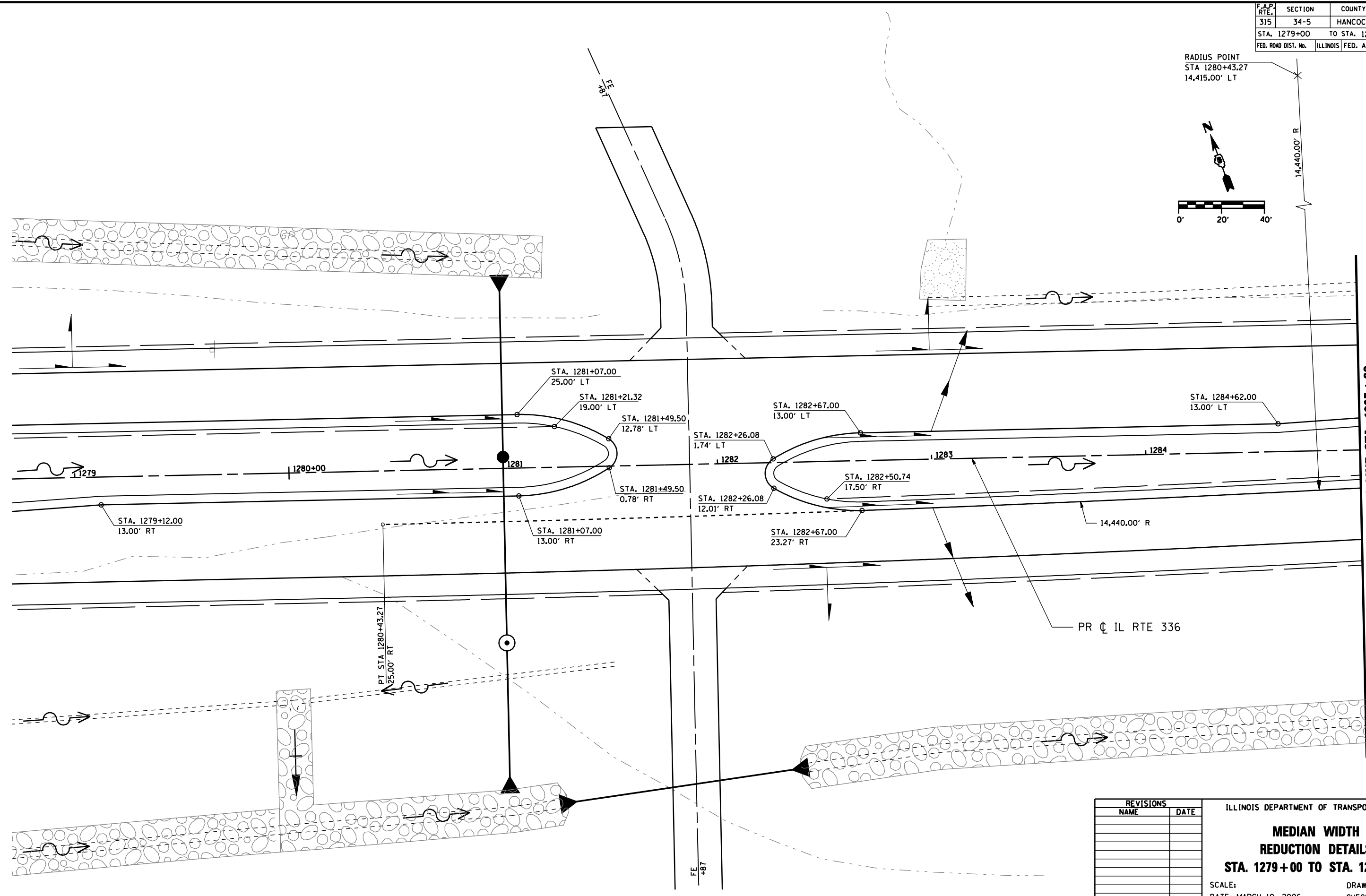
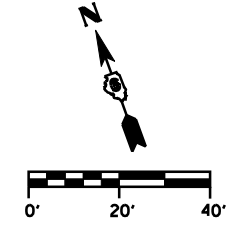
ILLINOIS DEPARTMENT OF TRANSPORTATION

**SIDE ROAD
SUPERELEVATION
TRANSITION DETAILS**

SCALE: DATE: MARCH 10, 2006 DRAWN BY: RG CHECKED BY: JAC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	215
STA. 1279+00		TO STA. 1285+00		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		

RADIUS POINT
 STA 1280+43.27
 14,415.00' LT



MATCH LINE STA. 1285 + 00

REVISIONS	
NAME	DATE

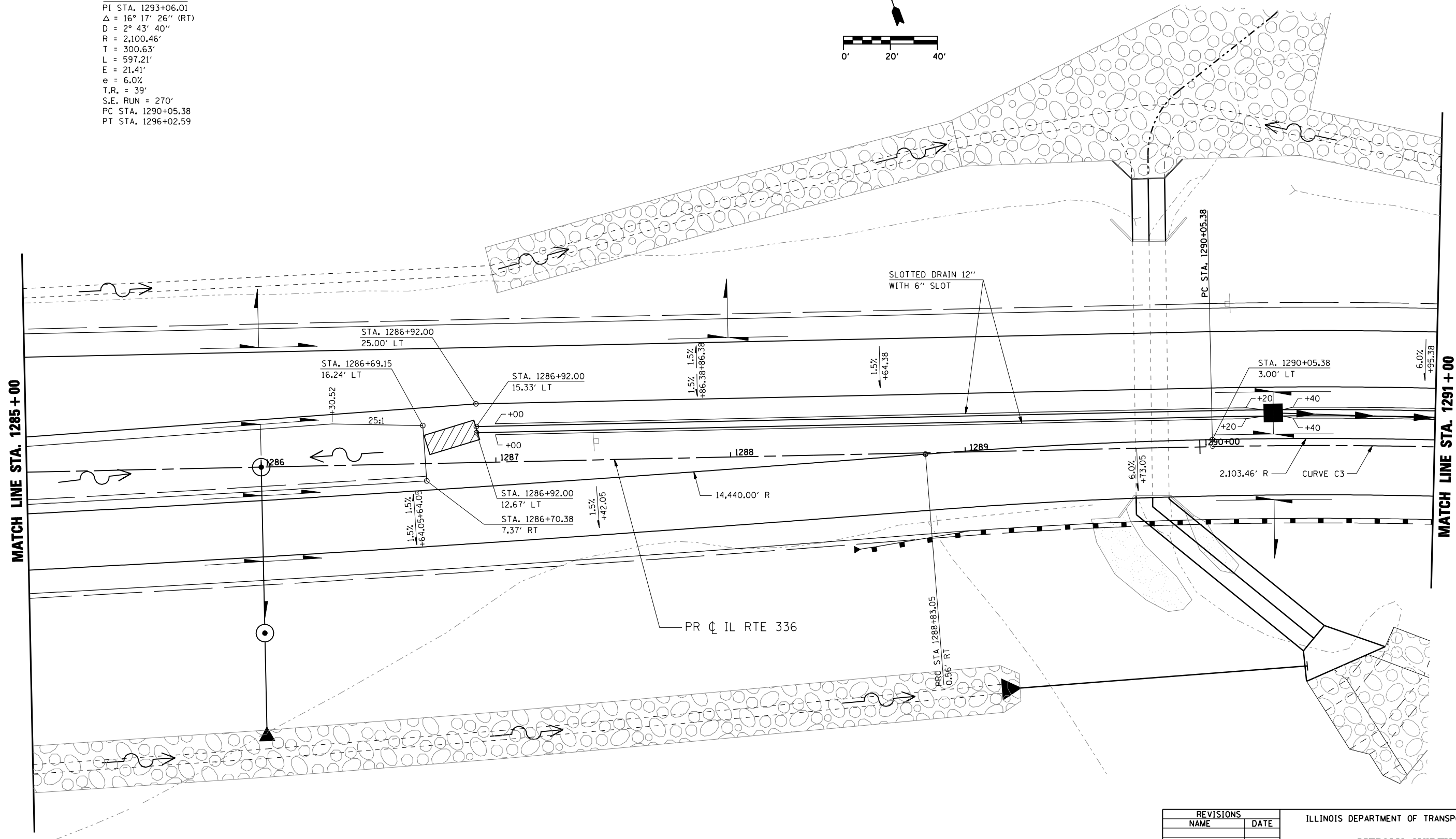
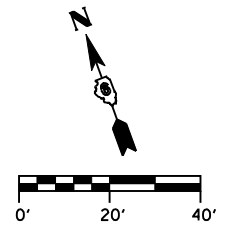
ILLINOIS DEPARTMENT OF TRANSPORTATION
**MEDIAN WIDTH
 REDUCTION DETAILS**
STA. 1279 + 00 TO STA. 1285 + 00
 SCALE: DATE: MARCH 10, 2006
 DRAWN BY: RG
 CHECKED BY: JAC

DGN: SPEC
 DATE: TIME
 *REF: 01

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	216
STA. 1285+00		TO STA. 1291+00		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		

CURVE C3 DATA

PI STA. 1293+06.01
 $\Delta = 16^\circ 17' 26''$ (RT)
 $D = 2^\circ 43' 40''$
 $R = 2,100.46'$
 $T = 300.63'$
 $L = 597.21'$
 $E = 21.41'$
 $e = 6.0\%$
 $T.R. = 39'$
 $S.E. RUN = 270'$
 PC STA. 1290+05.38
 PT STA. 1296+02.59



DGN: SPEC
 DATE: TIME
 *REF: 01

D6 PROJECT: FILE:

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

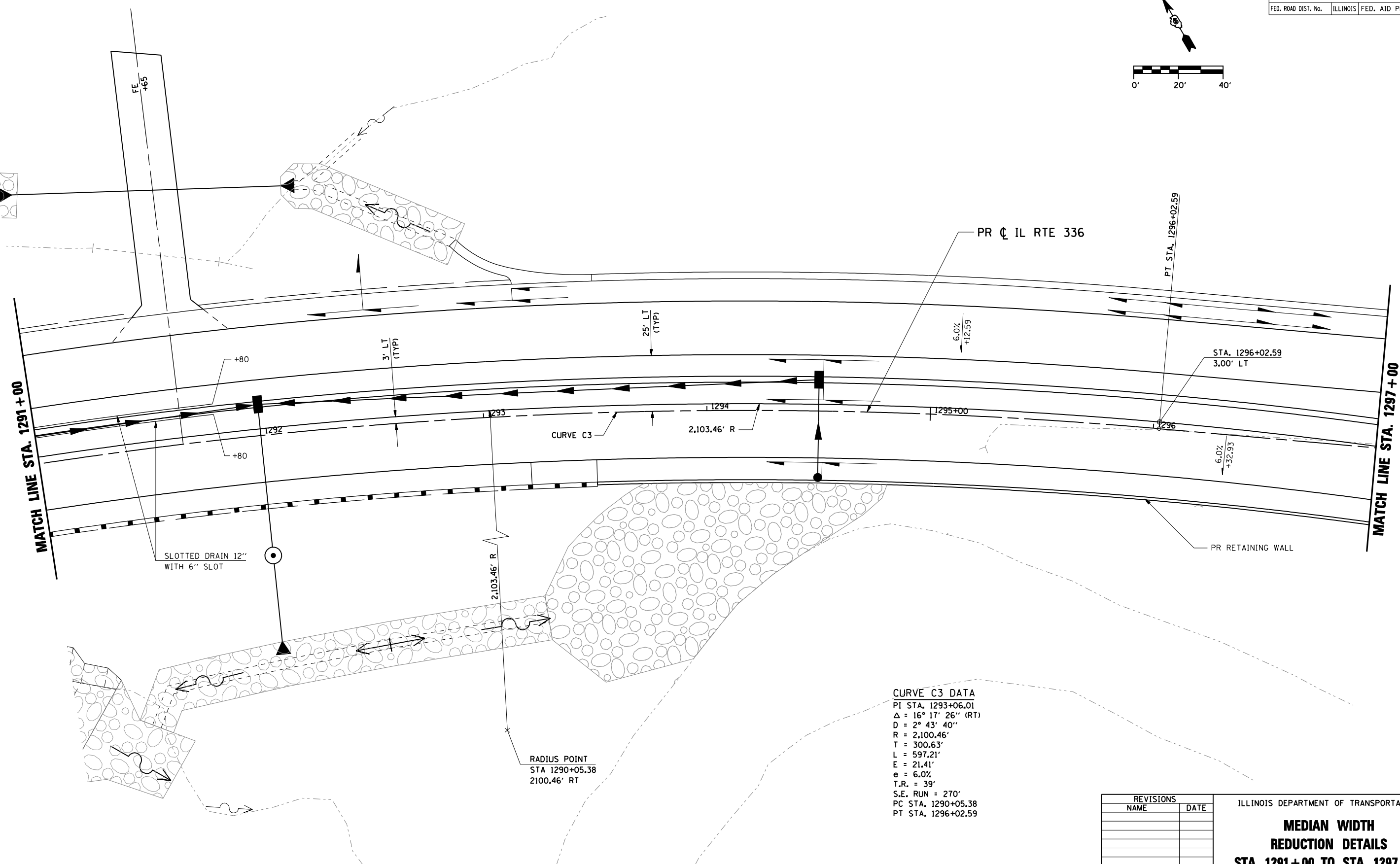
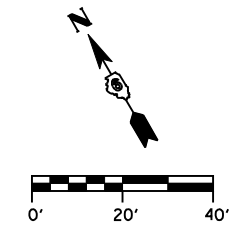
**MEDIAN WIDTH
REDUCTION DETAILS**

STA. 1285+00 TO STA. 1291+00

SCALE: DATE: MARCH 10, 2006

DRAWN BY: RG
CHECKED BY: JAC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	217
STA. 1291+00		TO STA. 1297+00		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		



CURVE C3 DATA
 PI STA. 1293+06.01
 $\Delta = 16^\circ 17' 26''$ (RT)
 D = 2° 43' 40''
 R = 2,100.46'
 T = 300.63'
 L = 597.21'
 E = 21.41'
 e = 6.0%
 T.R. = 39'
 S.E. RUN = 270'
 PC STA. 1290+05.38
 PT STA. 1296+02.59

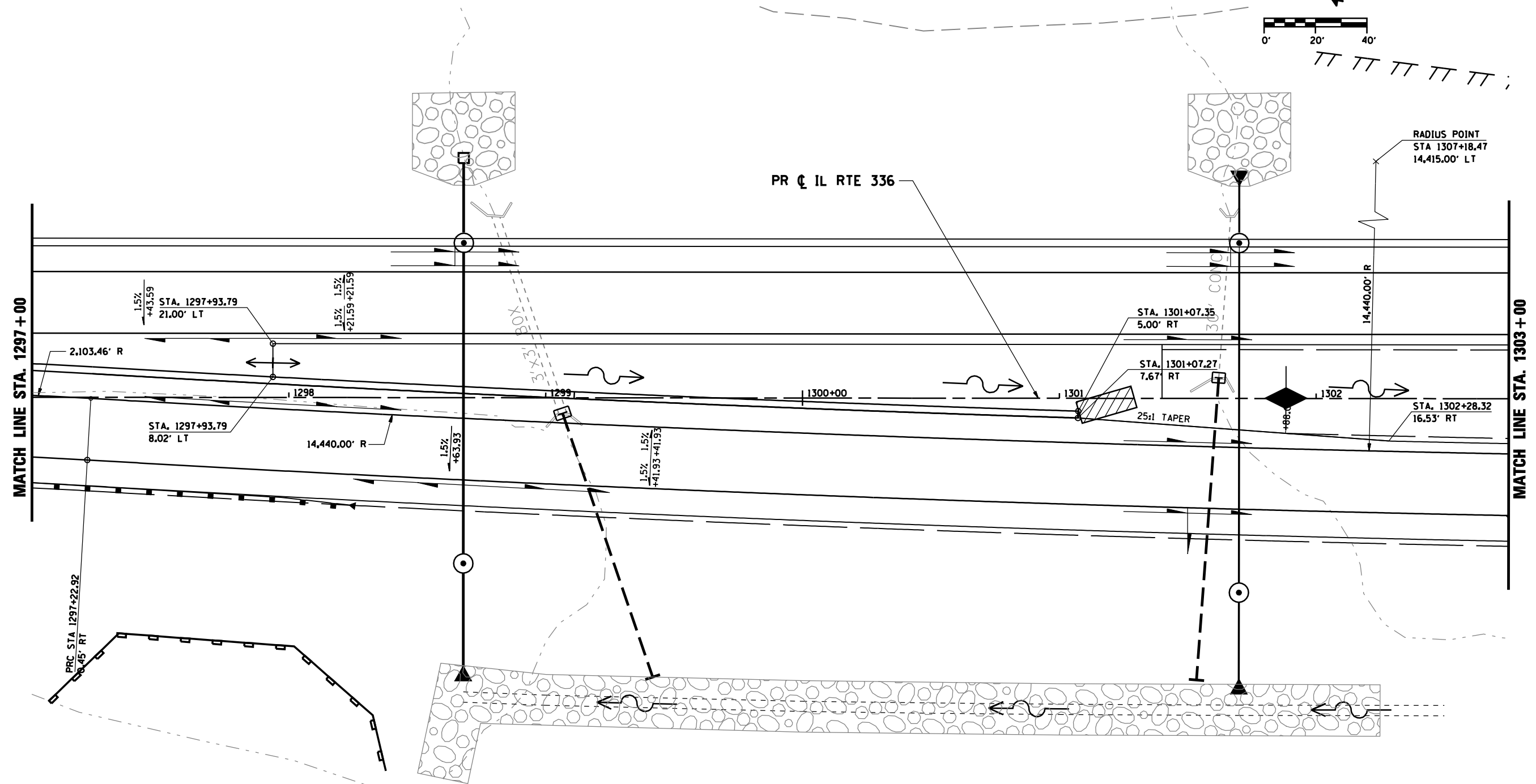
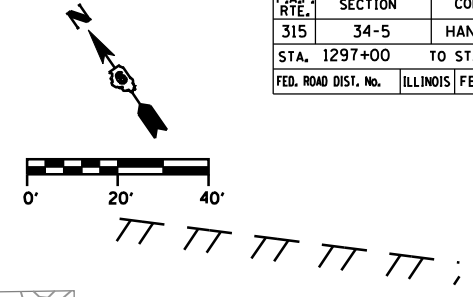
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**MEDIAN WIDTH
 REDUCTION DETAILS**
STA. 1291+00 TO STA. 1297+00
 SCALE: _____ DRAWN BY: RG
 DATE: MARCH 10, 2006 CHECKED BY: JAC

•DGN-SPEC•
 •DATE-TIME•
 •REF01

D6 PROJECT: FILE: .

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	218
STA. 1297+00		TO STA. 1303+00		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		



PR ϕ IL RTE 336

RADIUS POINT
STA 1307+18.47
14,415.00' LT

MATCH LINE STA. 1297+00

MATCH LINE STA. 1303+00

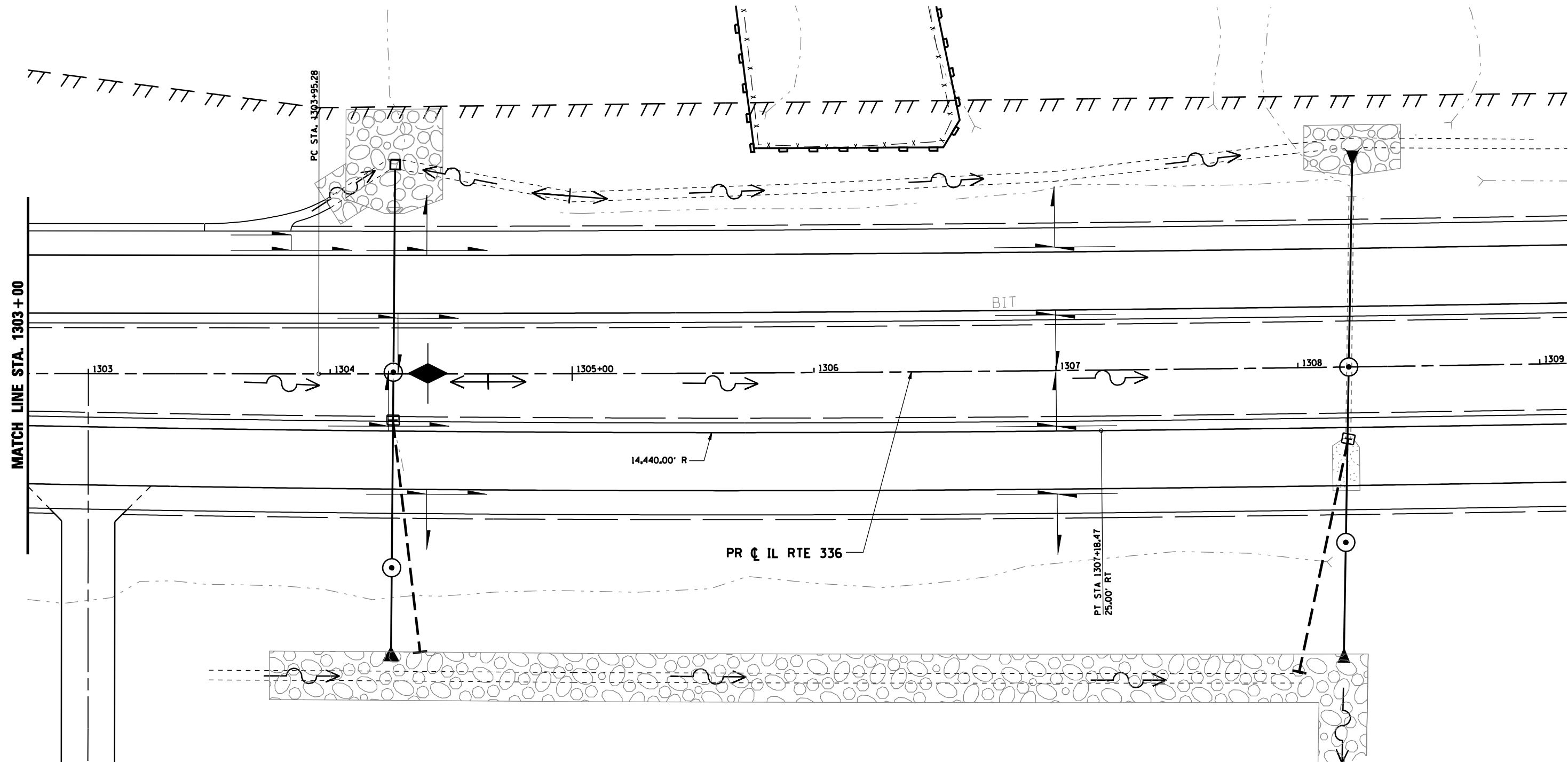
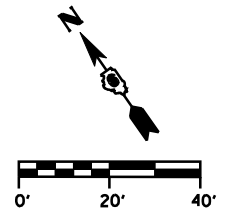
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**MEDIAN WIDTH
REDUCTION DETAILS**
STA. 1297+00 TO STA. 1303+00
SCALE: DATE: MARCH 10, 2006
DRAWN BY: RG
CHECKED BY: JAC

DGN-SPEC
DATE-TIME
*REF01

D6 PROJECT: FILE:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	219
STA. 1303+00		TO STA. 1309+00		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		



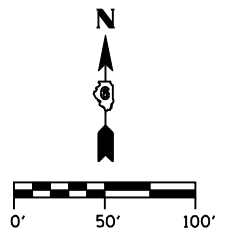
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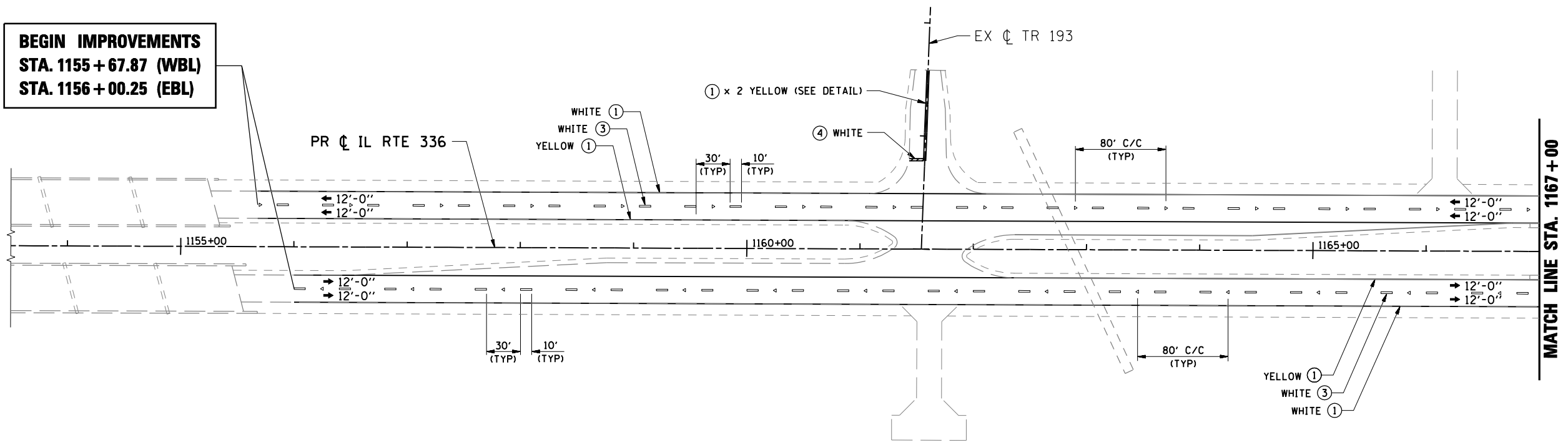
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**MEDIAN WIDTH
REDUCTION DETAILS**
STA. 1303+00 TO STA. 1309+00
SCALE: DRAWN BY: RG
DATE: MARCH 10, 2006 CHECKED BY: JAC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	220
STA. 1153+50		TO STA. 1167+00		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		



**BEGIN IMPROVEMENTS
STA. 1155 + 67.87 (WBL)
STA. 1156 + 00.25 (EBL)**



LEGEND

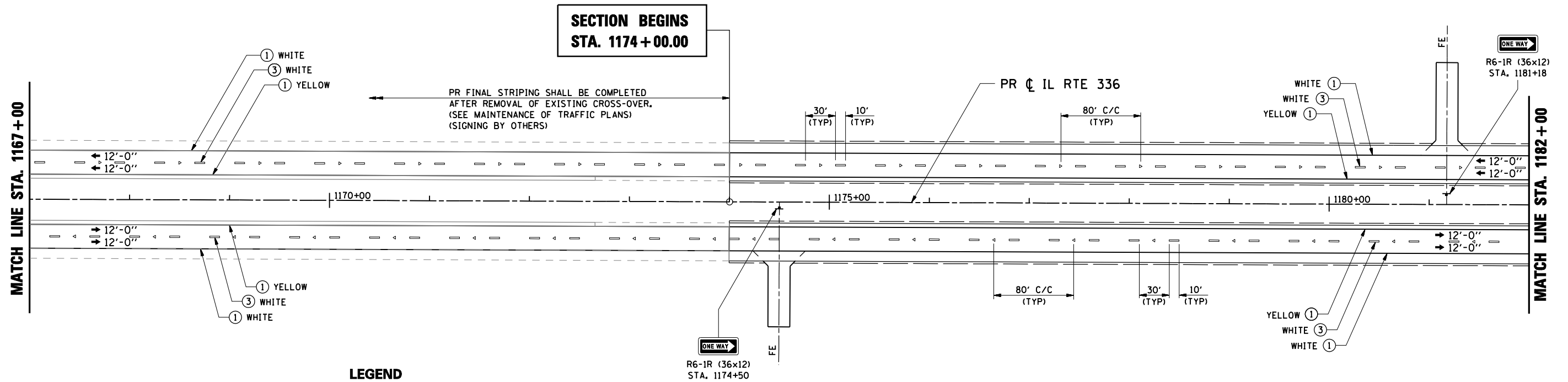
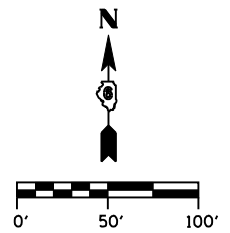
- ① POLYUREA PAVEMENT MARKING TYPE II - LINE 5"
- ② POLYUREA PAVEMENT MARKING TYPE II - LINE 6"
- ③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 5"
- ④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 24"
- ⑤ POLYUREA PAVEMENT MARKING, TYPE II - LETTERS & SYMBOLS
- ◁ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
- ◄ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
- ◆ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
- SIGN PANEL AND POST
- ▬ PERMANENT TYPE III BARRICADE

SIGNING BY OTHERS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING & SIGNING PLAN
IL RTE 336
STA. 1153+50 TO STA. 1167+00
SCALE: _____ DRAWN BY: RG
DATE: MARCH 10, 2006 CHECKED BY: JAC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	221
STA. 1167+00		TO STA. 1182+00		
FED. ROAD DIST. No.		ILLINOIS	FED. AID PROJECT	



LEGEND

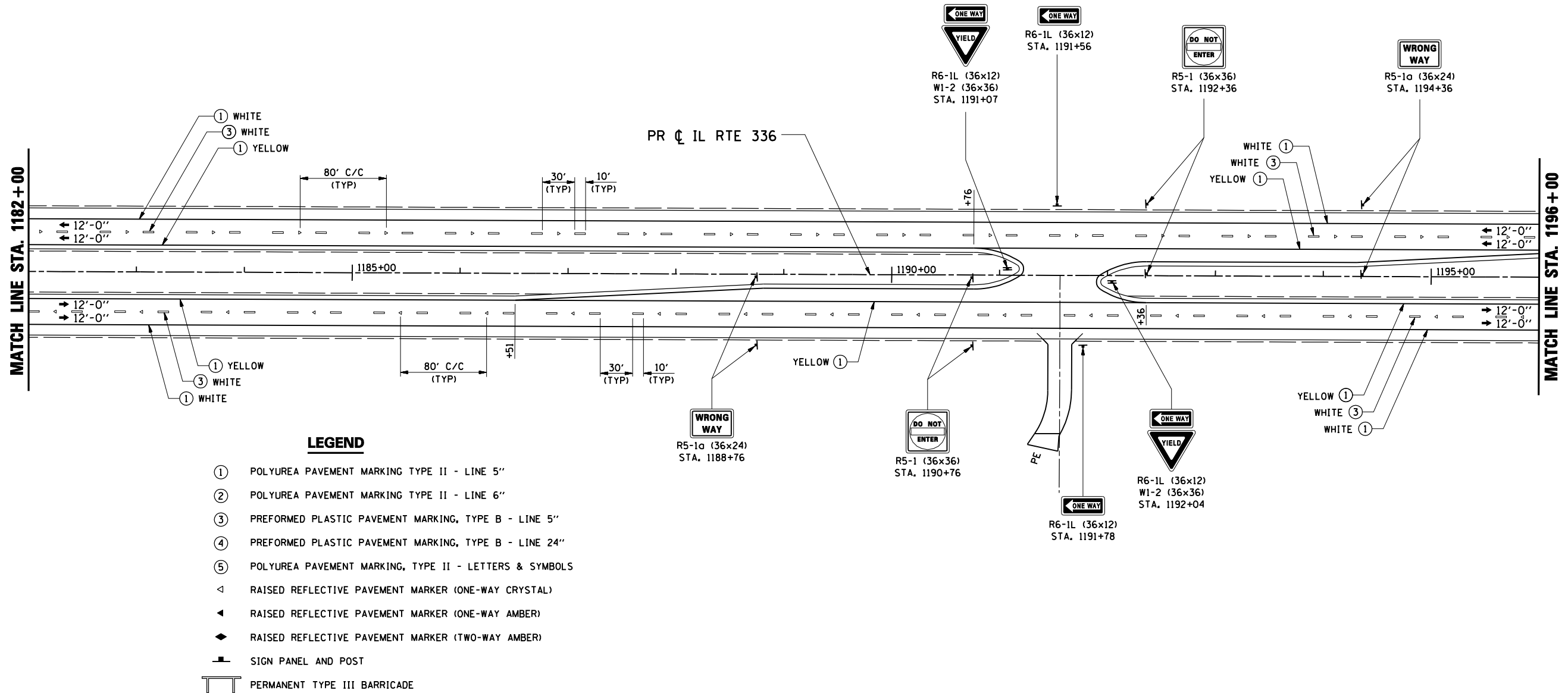
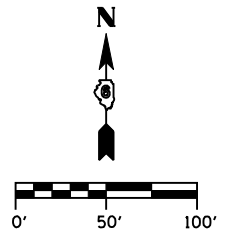
- ① POLYUREA PAVEMENT MARKING TYPE II - LINE 5"
- ② POLYUREA PAVEMENT MARKING TYPE II - LINE 6"
- ③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 5"
- ④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 24"
- ⑤ POLYUREA PAVEMENT MARKING, TYPE II - LETTERS & SYMBOLS
- ◁ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
- ◄ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
- ◆ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
- SIGN PANEL AND POST
- ▬ PERMANENT TYPE III BARRICADE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING & SIGNING PLAN
IL RTE 336
STA. 1167+00 TO STA. 1182+00
 SCALE: _____ DRAWN BY: RG
 DATE: MARCH 10, 2006 CHECKED BY: JAC

•DGN-SPEC•
 •DATE-TIME•
 •REF01

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	222
STA. 1182+00		TO STA. 1196+00		
FED. ROAD DIST. No.		ILLINOIS	FED. AID PROJECT	



- LEGEND**
- ① POLYUREA PAVEMENT MARKING TYPE II - LINE 5"
 - ② POLYUREA PAVEMENT MARKING TYPE II - LINE 6"
 - ③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 5"
 - ④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 24"
 - ⑤ POLYUREA PAVEMENT MARKING, TYPE II - LETTERS & SYMBOLS
 - ◁ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
 - ◄ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
 - ◆ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
 - SIGN PANEL AND POST
 - ▬ PERMANENT TYPE III BARRICADE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING & SIGNING PLAN

IL RTE 336

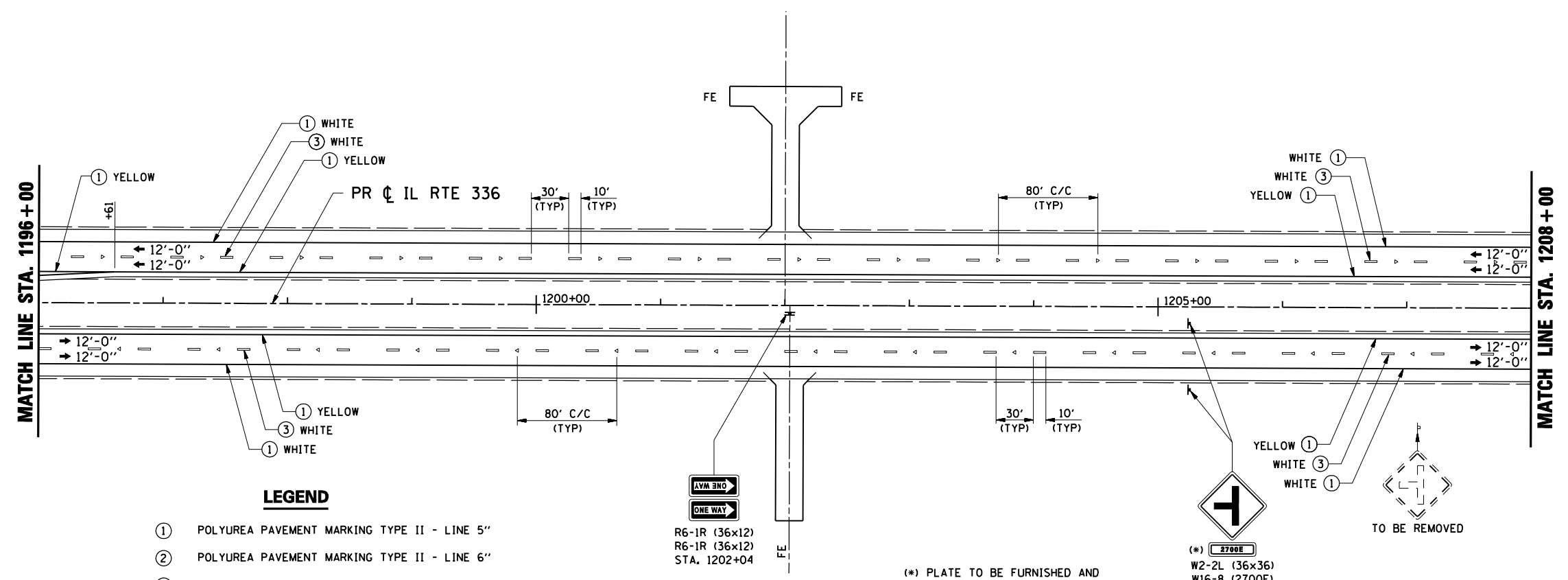
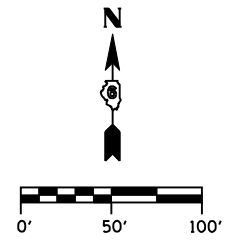
STA. 1182+00 TO STA. 1196+00

SCALE: _____ DRAWN BY: RG

DATE: MARCH 10, 2006 CHECKED BY: JAC

DGN-SPEC
 DATE-TIME
 *REF01

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	223
STA. 1196+00		TO STA. 1208+00		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		



LEGEND

- ① POLYUREA PAVEMENT MARKING TYPE II - LINE 5"
- ② POLYUREA PAVEMENT MARKING TYPE II - LINE 6"
- ③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 5"
- ④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 24"
- ⑤ POLYUREA PAVEMENT MARKING, TYPE II - LETTERS & SYMBOLS
- ◁ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
- ◄ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
- ◆ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
- SIGN PANEL AND POST
- PERMANENT TYPE III BARRICADE

R6-1R (36x12)
R6-1R (36x12)
STA. 1202+04

(*) PLATE TO BE FURNISHED AND
INSTALLED LATER BY DISTRICT
SIGN SHOP.

(*)
W2-2L (36x36)
W16-8 (2700E)
STA. 1205+25
SIGN001 (SEE
"SIGN DETAILS")

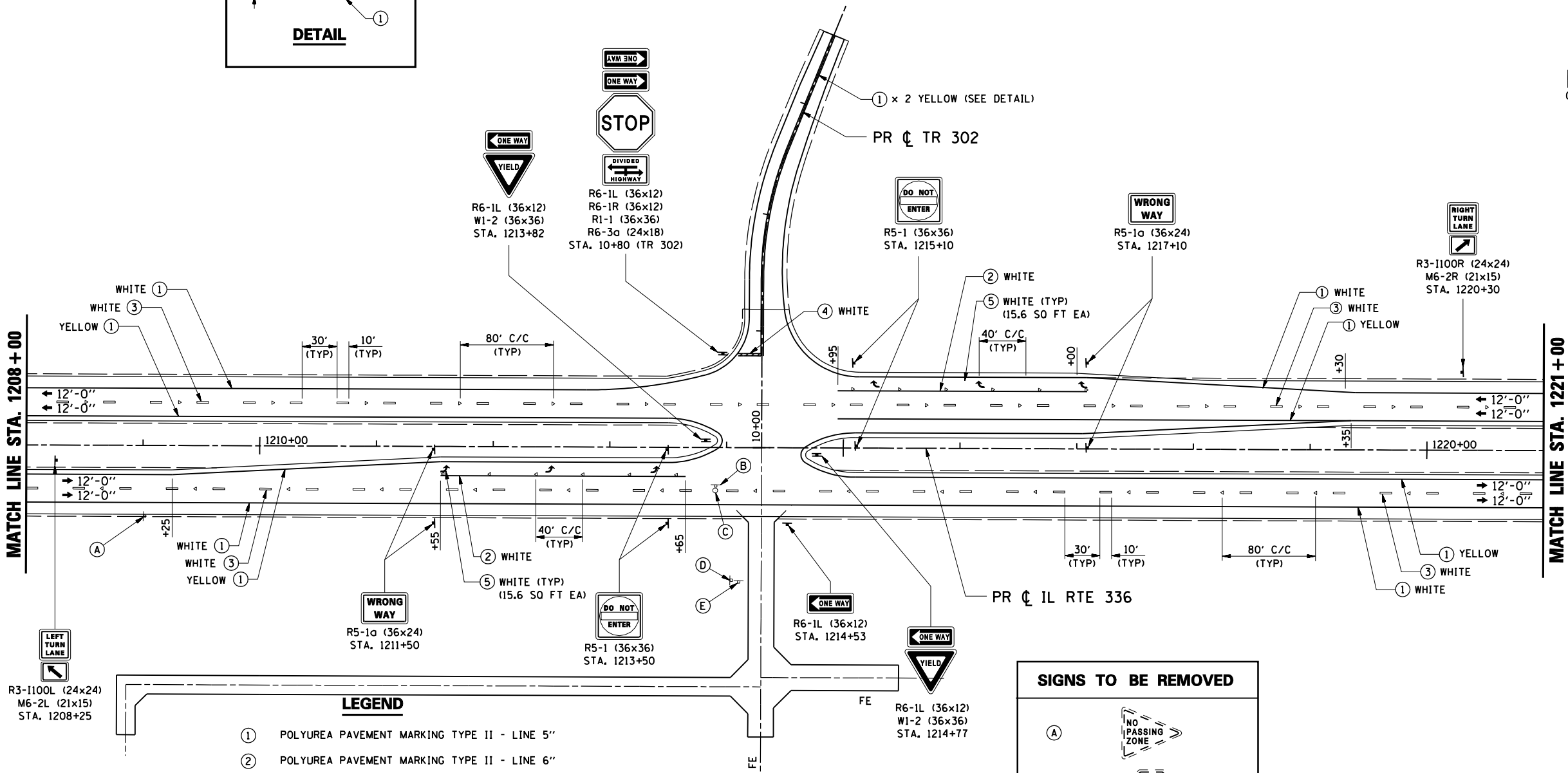
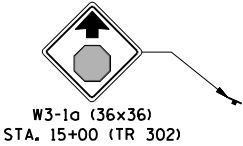
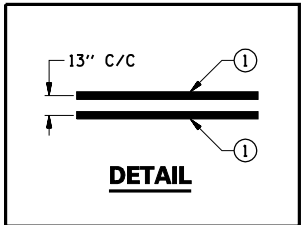
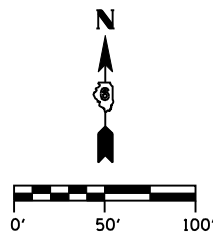
TO BE REMOVED

REVISIONS	
NAME	DATE

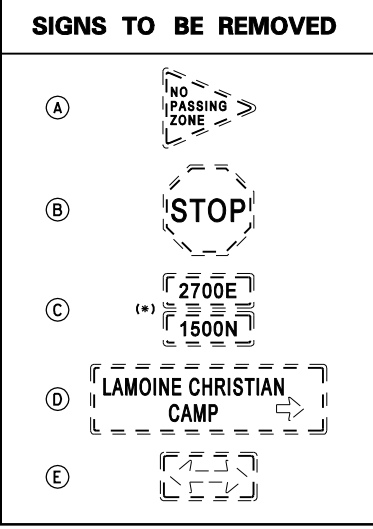
ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING & SIGNING PLAN
IL RTE 336
STA. 1196+00 TO STA. 1208+00
SCALE: DATE: MARCH 10, 2006
DRAWN BY: RG
CHECKED BY: JAC

•DGN: SPEC•
•DATE: TIME•
•REF: 01

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	224
STA. 1208+00		TO STA. 1221+00		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		



- LEGEND**
- ① POLYUREA PAVEMENT MARKING TYPE II - LINE 5"
 - ② POLYUREA PAVEMENT MARKING TYPE II - LINE 6"
 - ③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 5"
 - ④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 24"
 - ⑤ POLYUREA PAVEMENT MARKING, TYPE II - LETTERS & SYMBOLS
 - ◁ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
 - ◄ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
 - ◆ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
 - SIGN PANEL AND POST
 - PERMANENT TYPE III BARRICADE

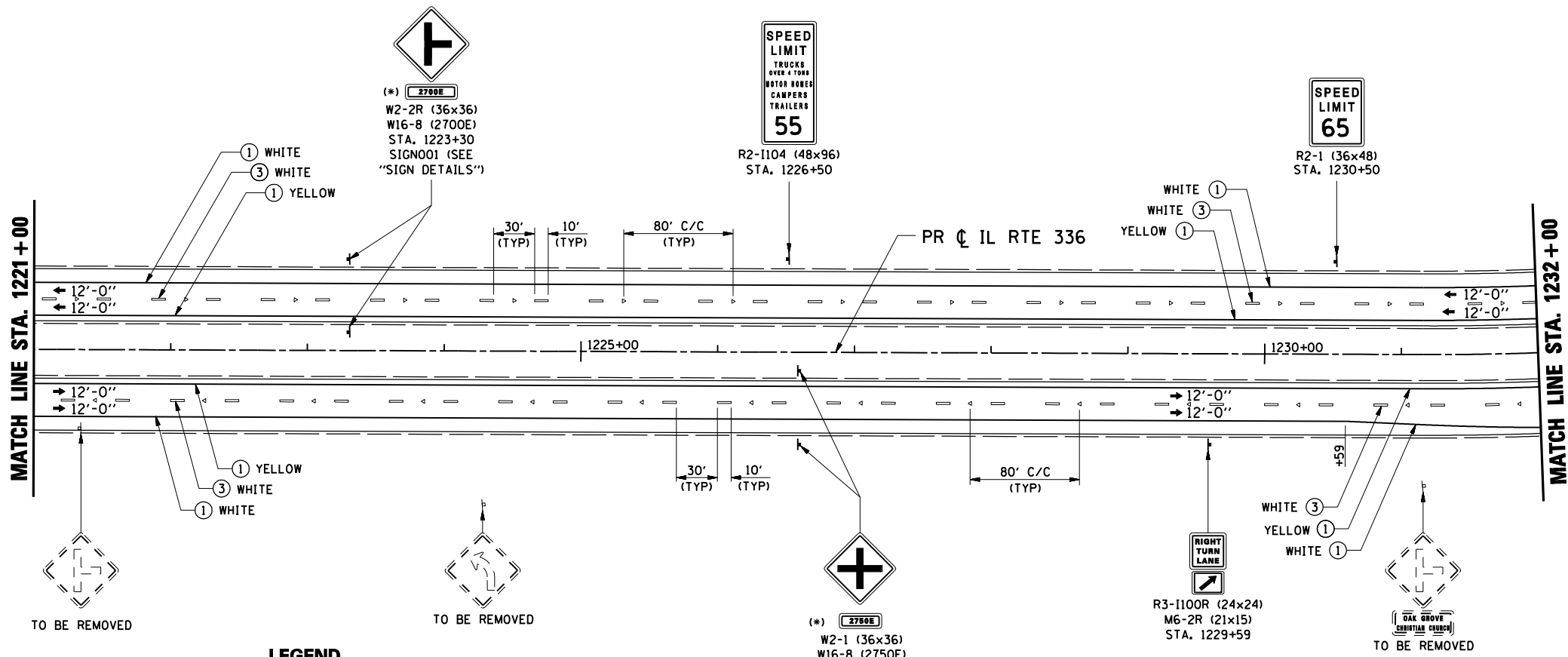
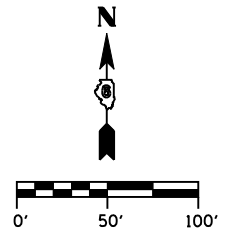


(*) SALVAGE TO HANCOCK COUNTY HIGHWAY DEPT.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING & SIGNING PLAN
IL RTE 336
STA. 1208+00 TO STA. 1221+00
 SCALE: DATE: MARCH 10, 2006
 DRAWN BY: RG
 CHECKED BY: JAC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	225
STA. 1221+00		TO STA. 1232+00		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		



NOTE:
EXISTING BUSINESS SIGN AT STA. 1230+87±, 123' RT (TO BE REMOVED BY OTHERS)

LEGEND

- ① POLYUREA PAVEMENT MARKING TYPE II - LINE 5"
- ② POLYUREA PAVEMENT MARKING TYPE II - LINE 6"
- ③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 5"
- ④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 24"
- ⑤ POLYUREA PAVEMENT MARKING, TYPE II - LETTERS & SYMBOLS
- ◁ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
- ◄ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
- ◆ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
- SIGN PANEL AND POST
- ▬ PERMANENT TYPE III BARRICADE

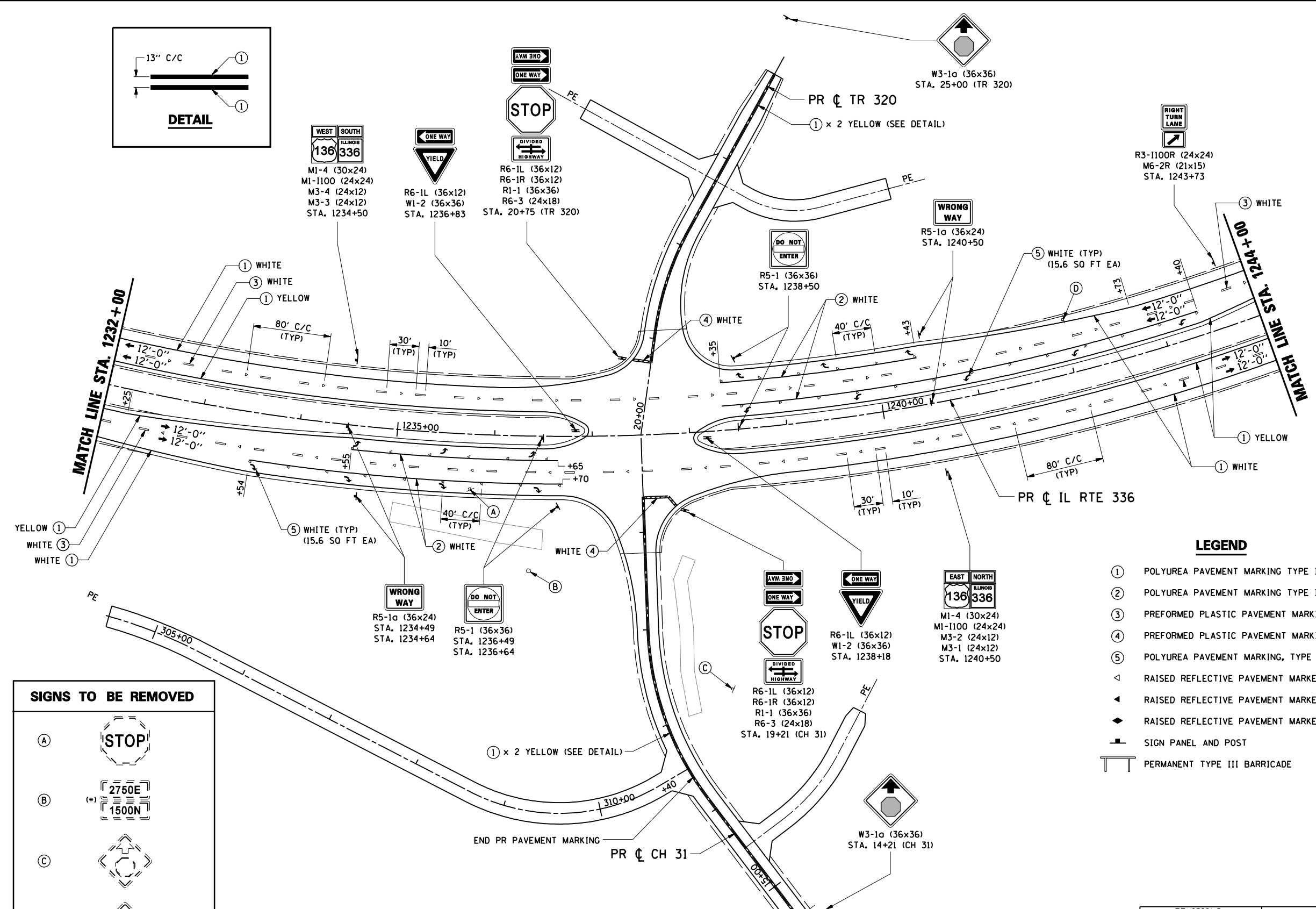
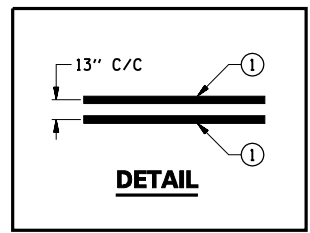
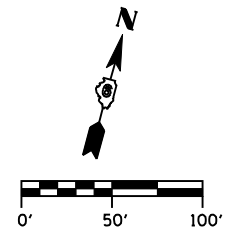
(*) PLATE TO BE FURNISHED AND INSTALLED LATER BY DISTRICT SIGN SHOP.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING & SIGNING PLAN
IL RTE 336
STA. 1221+00 TO STA. 1232+00
SCALE: DATE: MARCH 10, 2006 DRAWN BY: RG CHECKED BY: JAC

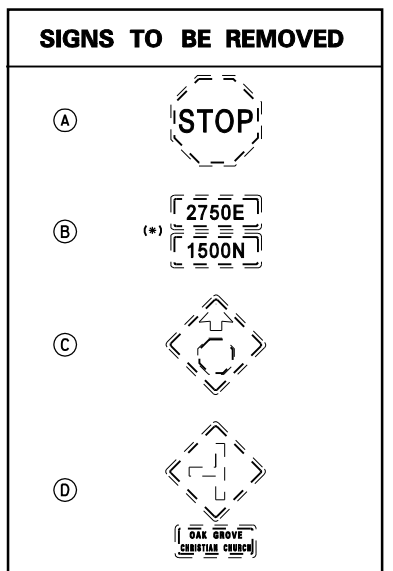
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•DATE: TIME•
•REF: 01

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	226
STA. 1232+00		TO STA. 1244+00		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		



LEGEND

- ① POLYUREA PAVEMENT MARKING TYPE II - LINE 5"
- ② POLYUREA PAVEMENT MARKING TYPE II - LINE 6"
- ③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 5"
- ④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 24"
- ⑤ POLYUREA PAVEMENT MARKING, TYPE II - LETTERS & SYMBOLS
- ◁ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
- ◄ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
- ◆ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
- SIGN PANEL AND POST
- ▬ PERMANENT TYPE III BARRICADE

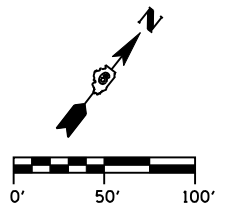


(*) SALVAGE TO HANCOCK COUNTY HIGHWAY DEPT.

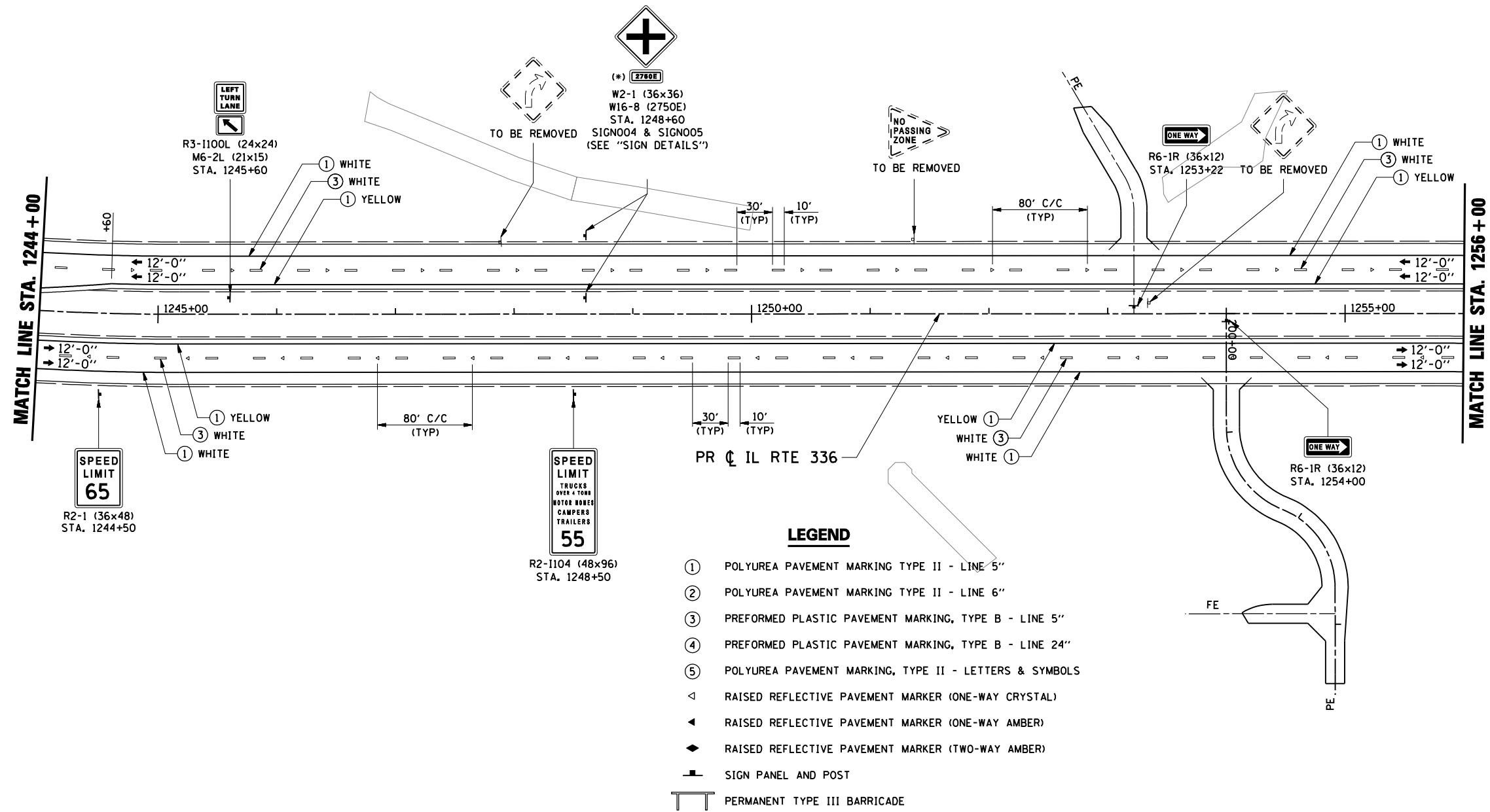
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING & SIGNING PLAN
IL RTE 336
STA. 1232+00 TO STA. 1244+00
 SCALE: _____ DRAWN BY: RG
 DATE: MARCH 10, 2006 CHECKED BY: JAC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	227
STA. 1244+00		TO STA. 1256+00		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		



(*) PLATE TO BE FURNISHED AND INSTALLED LATER BY DISTRICT SIGN SHOP.



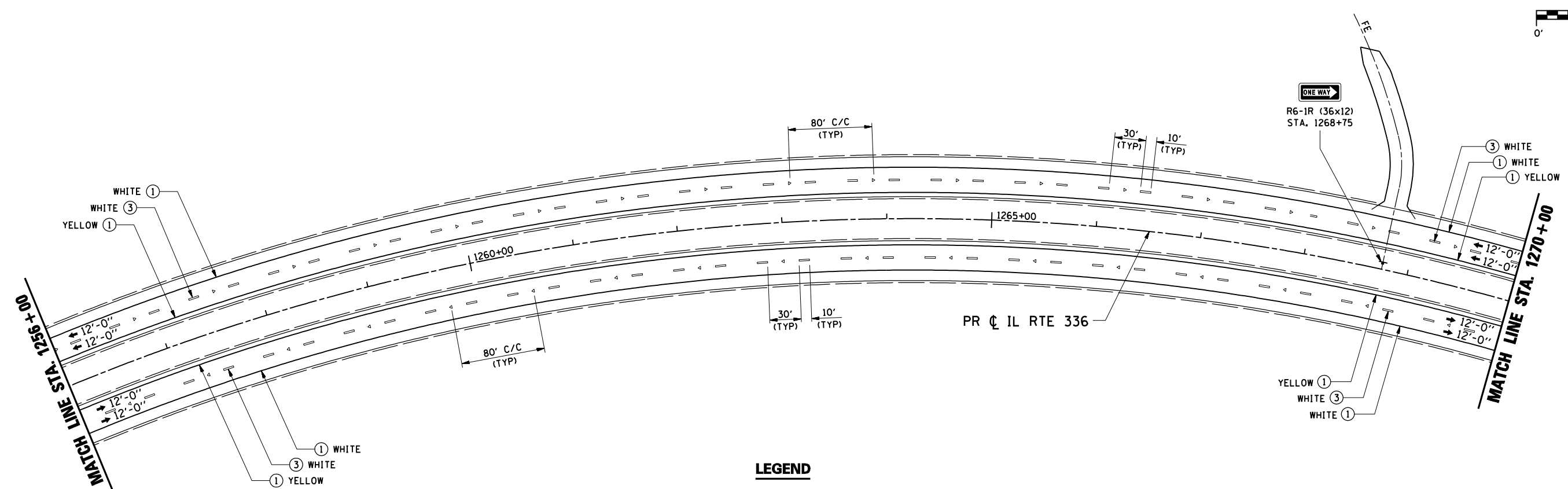
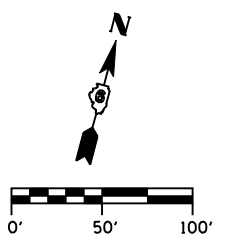
•DGN-SPEC•
•DATE-TIME•
•REF01

D6 PROJECT: FILE:

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING & SIGNING PLAN
IL RTE 336
STA. 1244+00 TO STA. 1256+00
 SCALE: DATE: MARCH 10, 2006
 DRAWN BY: RG
 CHECKED BY: JAC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	228
STA. 1256+00		TO STA. 1270+00		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		



LEGEND

- ① POLYUREA PAVEMENT MARKING TYPE II - LINE 5"
- ② POLYUREA PAVEMENT MARKING TYPE II - LINE 6"
- ③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 5"
- ④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 24"
- ⑤ POLYUREA PAVEMENT MARKING, TYPE II - LETTERS & SYMBOLS
- ◁ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
- ◄ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
- ◆ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
- SIGN PANEL AND POST
- ▬ PERMANENT TYPE III BARRICADE

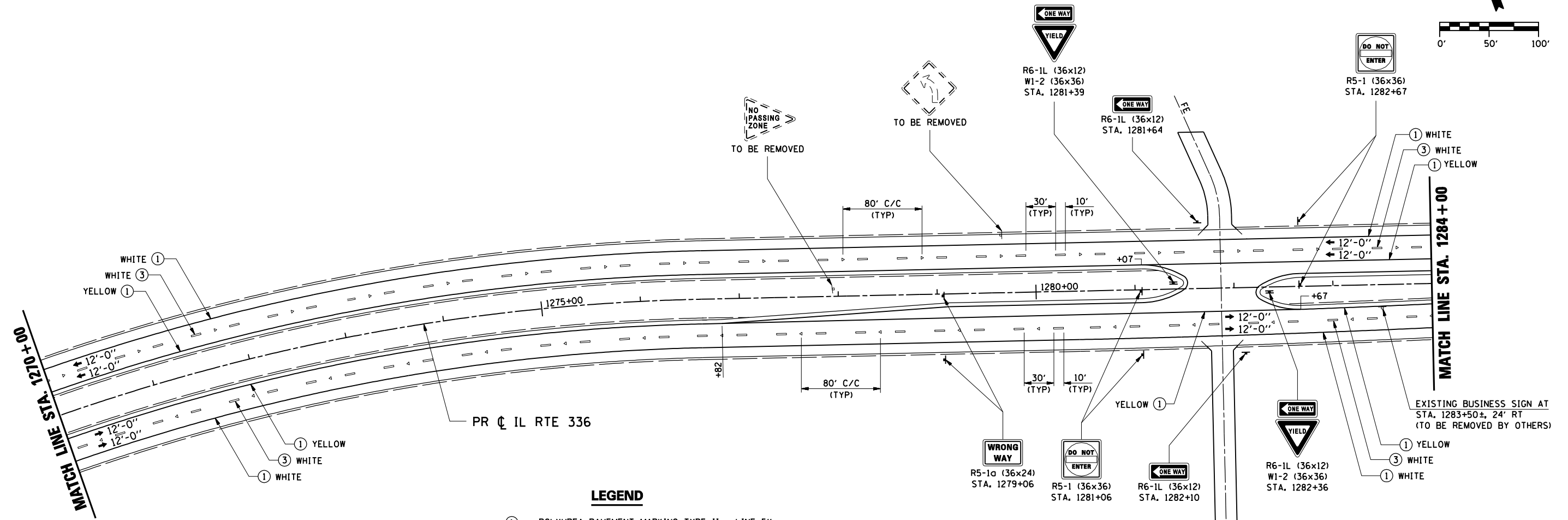
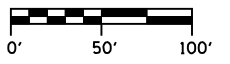
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING & SIGNING PLAN
IL RTE 336
STA. 1256+00 TO STA. 1270+00
 SCALE: _____ DRAWN BY: RG
 DATE: MARCH 10, 2006 CHECKED BY: JAC

•DGN: SPEC•
 •DATE: TIME•
 •REF: 01

D6 PROJECT: FILE: .

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	229
STA. 1270+00 TO STA. 1284+00				
FED. ROAD DIST. No.		ILLINOIS	FED. AID PROJECT	



LEGEND

- ① POLYUREA PAVEMENT MARKING TYPE II - LINE 5"
- ② POLYUREA PAVEMENT MARKING TYPE II - LINE 6"
- ③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 5"
- ④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 24"
- ⑤ POLYUREA PAVEMENT MARKING, TYPE II - LETTERS & SYMBOLS
- ◁ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
- ◄ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
- ◆ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
- SIGN PANEL AND POST
- PERMANENT TYPE III BARRICADE

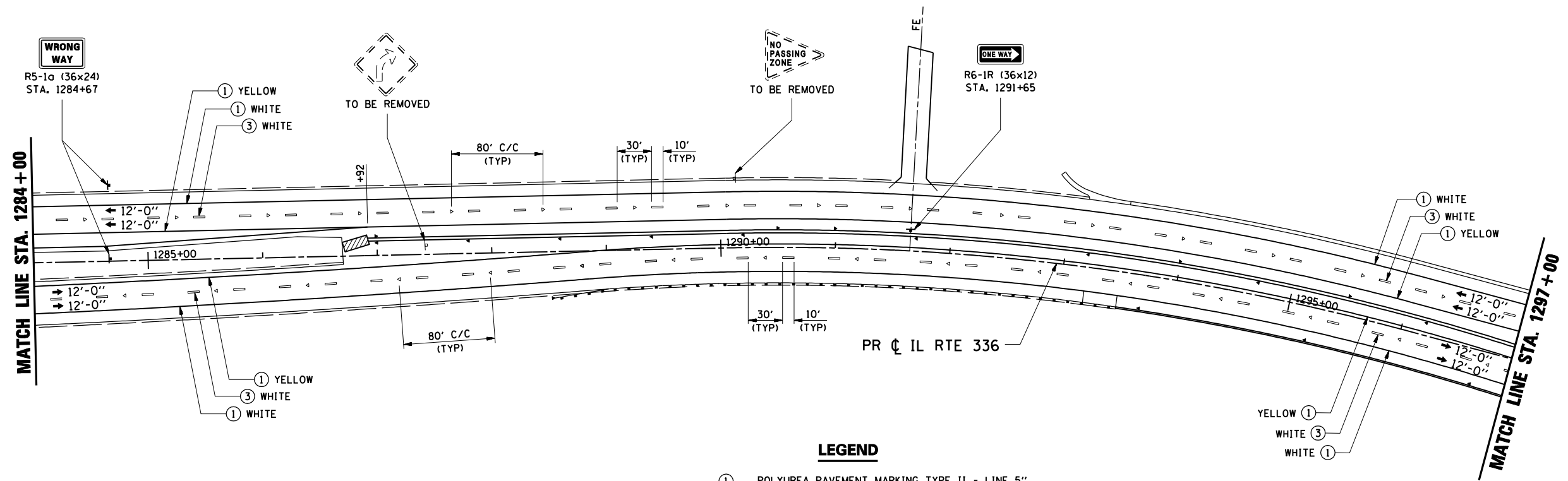
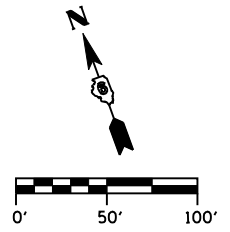
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING & SIGNING PLAN
IL RTE 336
STA. 1270+00 TO STA. 1284+00
 SCALE: _____ DRAWN BY: RG
 DATE: MARCH 10, 2006 CHECKED BY: JAC

•DGN-SPEC•
 •DATE-TIME•
 •REF01

D6 PROJECT: FILE: .

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	230
STA. 1284+00		TO STA. 1297+00		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		



LEGEND

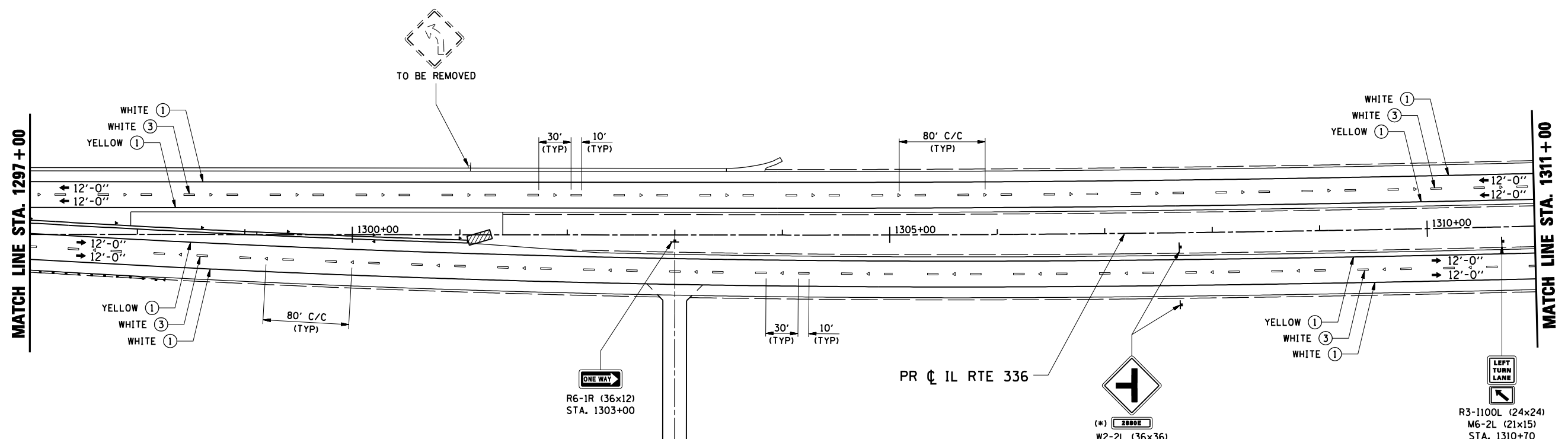
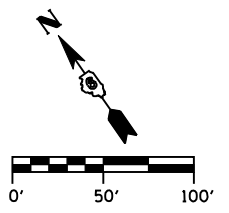
- ① POLYUREA PAVEMENT MARKING TYPE II - LINE 5"
- ② POLYUREA PAVEMENT MARKING TYPE II - LINE 6"
- ③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 5"
- ④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 24"
- ⑤ POLYUREA PAVEMENT MARKING, TYPE II - LETTERS & SYMBOLS
- ◁ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
- ◄ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
- ◆ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
- SIGN PANEL AND POST
- ▬ PERMANENT TYPE III BARRICADE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING & SIGNING PLAN
IL RTE 336
STA. 1284+00 TO STA. 1297+00
 SCALE: DATE: MARCH 10, 2006
 DRAWN BY: RG
 CHECKED BY: JAC

•DGN: SPEC•
 •DATE: TIME•
 •REF: 01

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	231
STA. 1297+00		TO STA. 1311+00		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		



- LEGEND**
- ① POLYUREA PAVEMENT MARKING TYPE II - LINE 5"
 - ② POLYUREA PAVEMENT MARKING TYPE II - LINE 6"
 - ③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 5"
 - ④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 24"
 - ⑤ POLYUREA PAVEMENT MARKING, TYPE II - LETTERS & SYMBOLS
 - ◁ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
 - ◄ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
 - ◆ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
 - SIGN PANEL AND POST
 - PERMANENT TYPE III BARRICADE

(*) 2880E
W2-2L (36x36)
W16-8 (2880E)
STA. 1307+70
SIGN006 (SEE
"SIGN DETAILS")

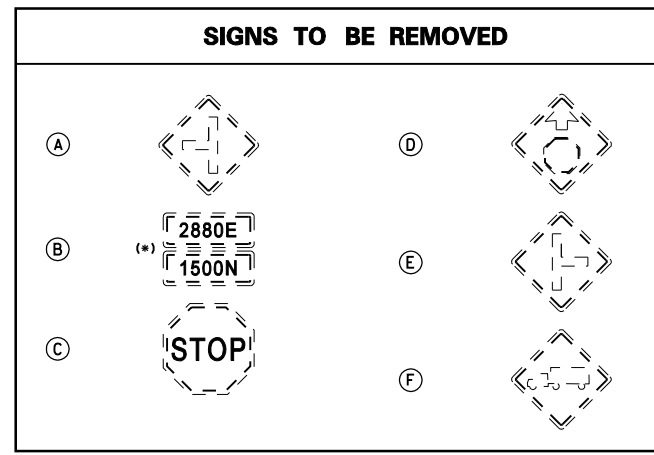
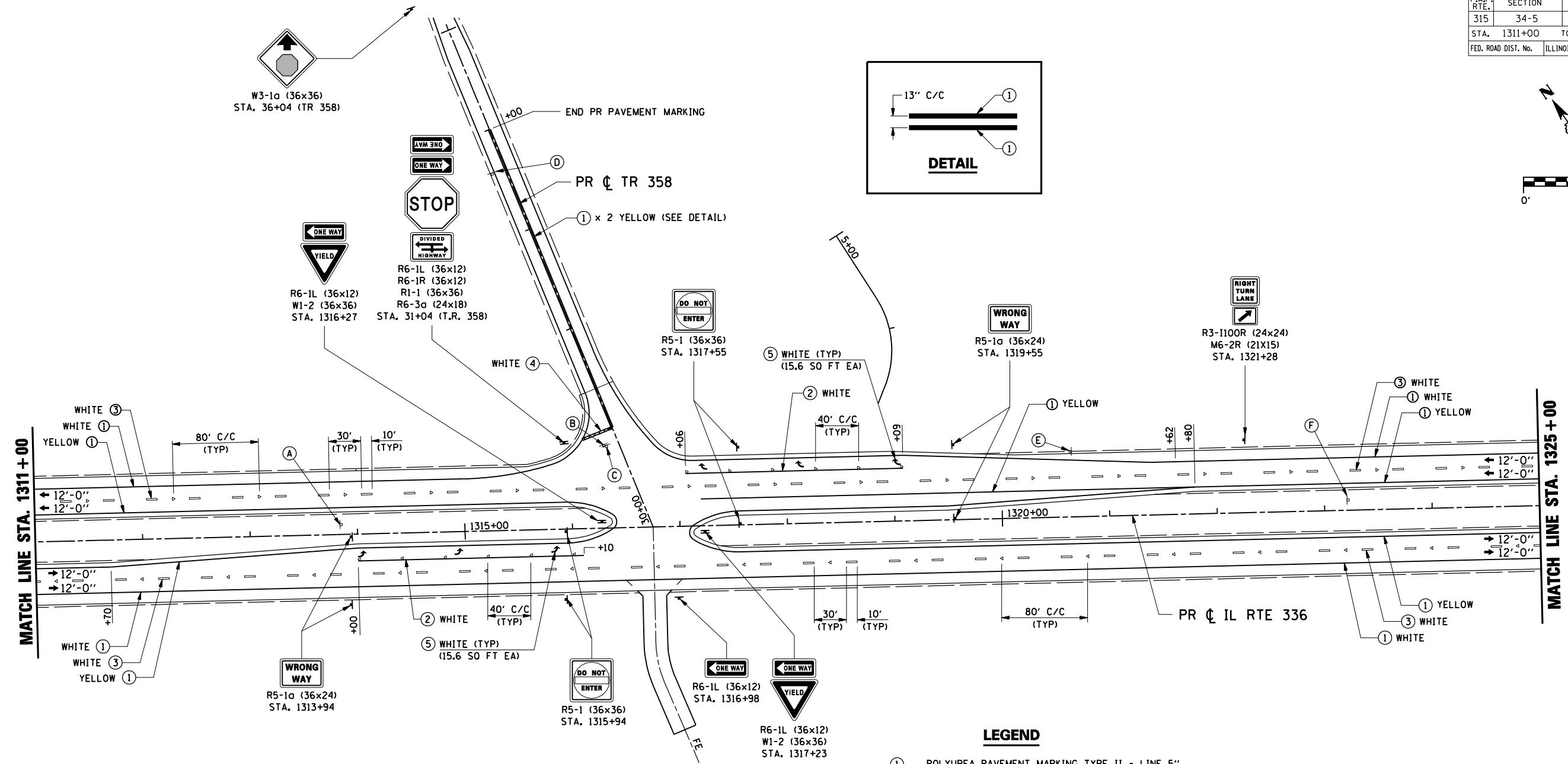
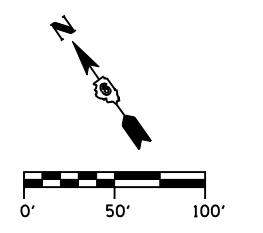
(*) PLATE TO BE FURNISHED AND
INSTALLED LATER BY DISTRICT
SIGN SHOP.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING & SIGNING PLAN
IL RTE 336
STA. 1297+00 TO STA. 1311+00
SCALE: _____ DRAWN BY: RG
DATE: MARCH 10, 2006 CHECKED BY: JAC

•DGN: SPEC•
•DATE: TIME•
•REF: 01

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	232
STA. 1311+00		TO STA. 1325+00		
FED. ROAD DIST. No.		ILLINOIS	FED. AID PROJECT	



(*) SALVAGE TO HANCOCK COUNTY HIGHWAY DEPT.

- LEGEND**
- ① POLYUREA PAVEMENT MARKING TYPE II - LINE 5"
 - ② POLYUREA PAVEMENT MARKING TYPE II - LINE 6"
 - ③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 5"
 - ④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 24"
 - ⑤ POLYUREA PAVEMENT MARKING, TYPE II - LETTERS & SYMBOLS
 - ◁ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
 - ◄ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
 - ◆ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
 - SIGN PANEL AND POST
 - ▬ PERMANENT TYPE III BARRICADE

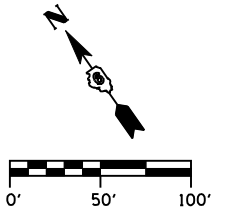
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING & SIGNING PLAN
IL RTE 336
STA. 1311+00 TO STA. 1325+00
 SCALE: DATE: MARCH 10, 2006
 DRAWN BY: RG
 CHECKED BY: JAC

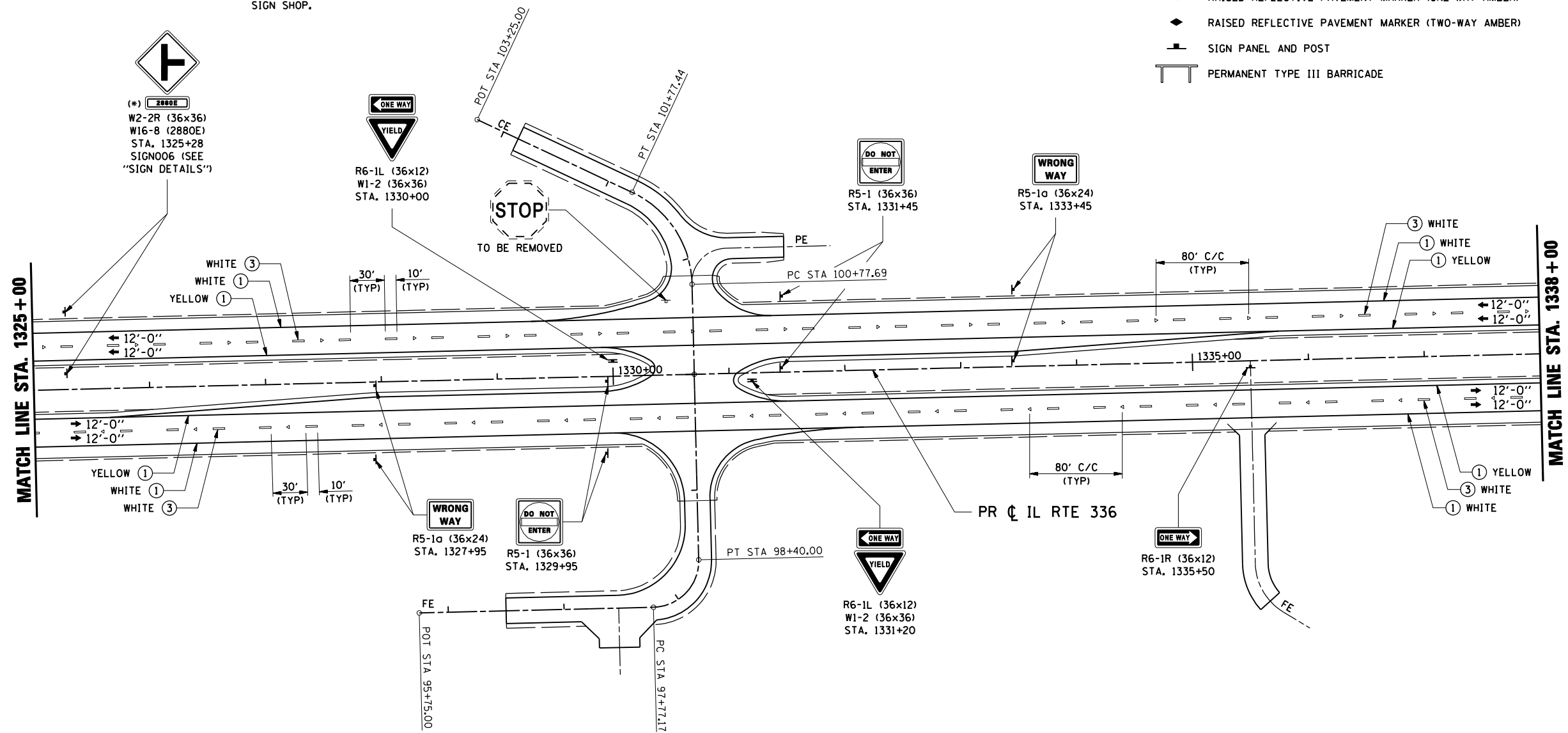
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	233
STA. 1325+00 TO STA. 1338+00		FED. ROAD DIST. No. ILLINOIS FED. AID PROJECT		

LEGEND

- ① POLYUREA PAVEMENT MARKING TYPE II - LINE 5"
- ② POLYUREA PAVEMENT MARKING TYPE II - LINE 6"
- ③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 5"
- ④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 24"
- ⑤ POLYUREA PAVEMENT MARKING, TYPE II - LETTERS & SYMBOLS
- ◁ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
- ◄ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
- ◆ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
- SIGN PANEL AND POST
- PERMANENT TYPE III BARRICADE



(*) PLATE TO BE FURNISHED AND INSTALLED LATER BY DISTRICT SIGN SHOP.



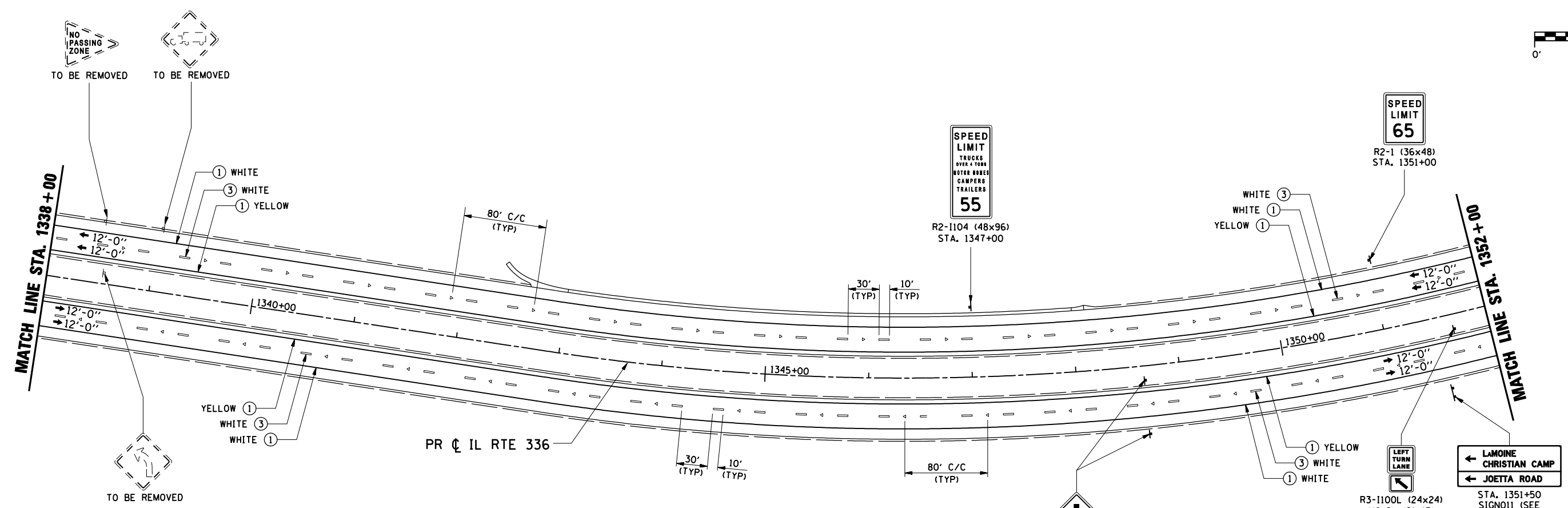
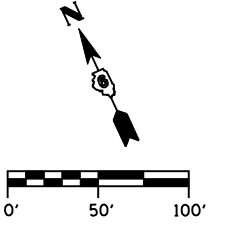
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D6 PROJECT: FILE:

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING & SIGNING PLAN
IL RTE 336
STA. 1325+00 TO STA. 1338+00
 SCALE: DATE: MARCH 10, 2006
 DRAWN BY: RG
 CHECKED BY: JAC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	234
STA. 1338+00		TO STA. 1352+00		
FED. ROAD DIST. No.		ILLINOIS	FED. AID PROJECT	



LEGEND

- ① POLYUREA PAVEMENT MARKING TYPE II - LINE 5"
- ② POLYUREA PAVEMENT MARKING TYPE II - LINE 6"
- ③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 5"
- ④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 24"
- ⑤ POLYUREA PAVEMENT MARKING, TYPE II - LETTERS & SYMBOLS
- ◁ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
- ◄ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
- ◆ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
- SIGN PANEL AND POST
- PERMANENT TYPE III BARRICADE

- (*) W2-1 (36x36)
- (*) W16-8 (2950E)
- (*) W16-8 (1400N)
- STA. 1348+66
- SIGN007 & SIGN008
- (SEE "SIGN DETAILS")

(*) PLATE TO BE FURNISHED AND INSTALLED LATER BY DISTRICT SIGN SHOP.

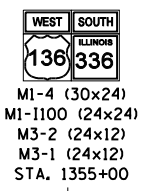
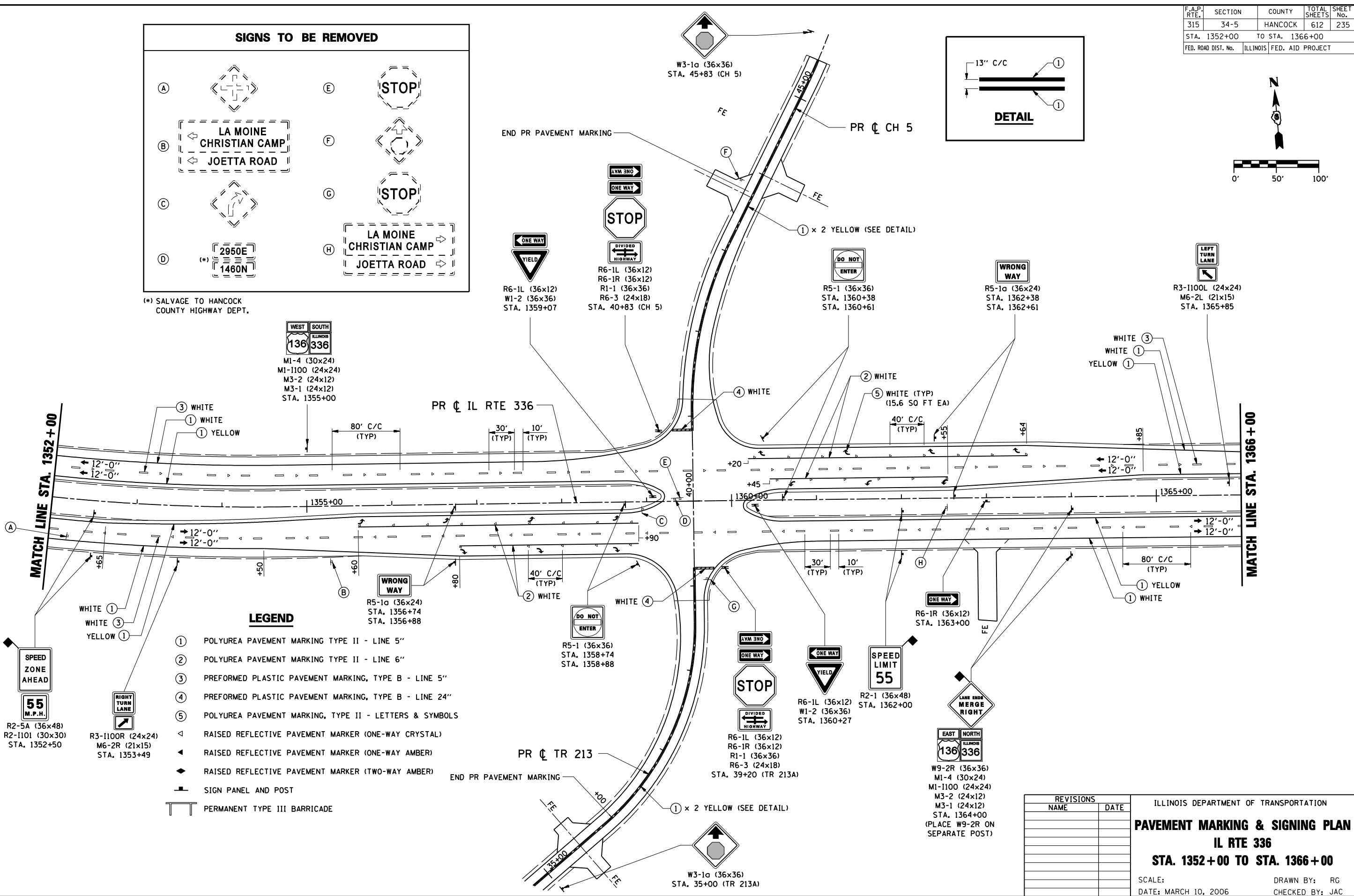
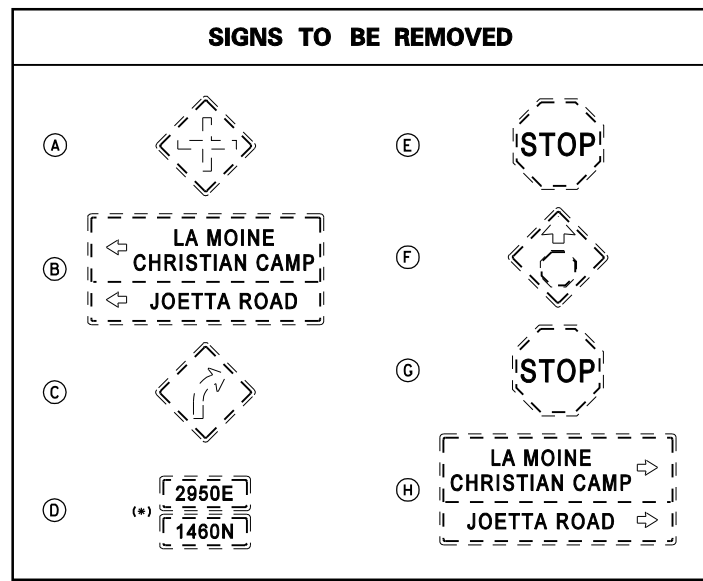
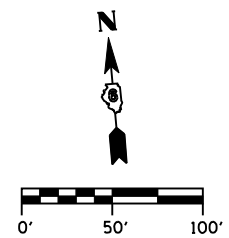
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING & SIGNING PLAN
IL RTE 336
STA. 1338+00 TO STA. 1352+00
 SCALE: _____ DRAWN BY: RG
 DATE: MARCH 10, 2006 CHECKED BY: JAC

•DGN: SPEC•
 •DATE: TIME•
 •REF: 01

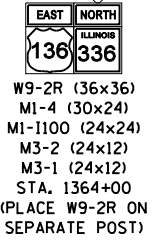
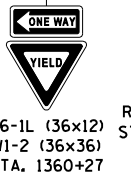
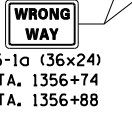
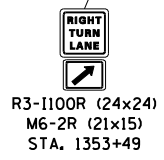
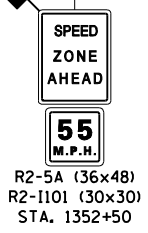
D6 PROJECT: FILE: .

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	235
STA. 1352+00		TO STA. 1366+00		
FED. ROAD DIST. No.		ILLINOIS FED. AID PROJECT		



LEGEND

- ① POLYUREA PAVEMENT MARKING TYPE II - LINE 5"
- ② POLYUREA PAVEMENT MARKING TYPE II - LINE 6"
- ③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 5"
- ④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 24"
- ⑤ POLYUREA PAVEMENT MARKING, TYPE II - LETTERS & SYMBOLS
- ◁ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
- ◄ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
- ◆ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
- SIGN PANEL AND POST
- PERMANENT TYPE III BARRICADE



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING & SIGNING PLAN
IL RTE 336
STA. 1352+00 TO STA. 1366+00

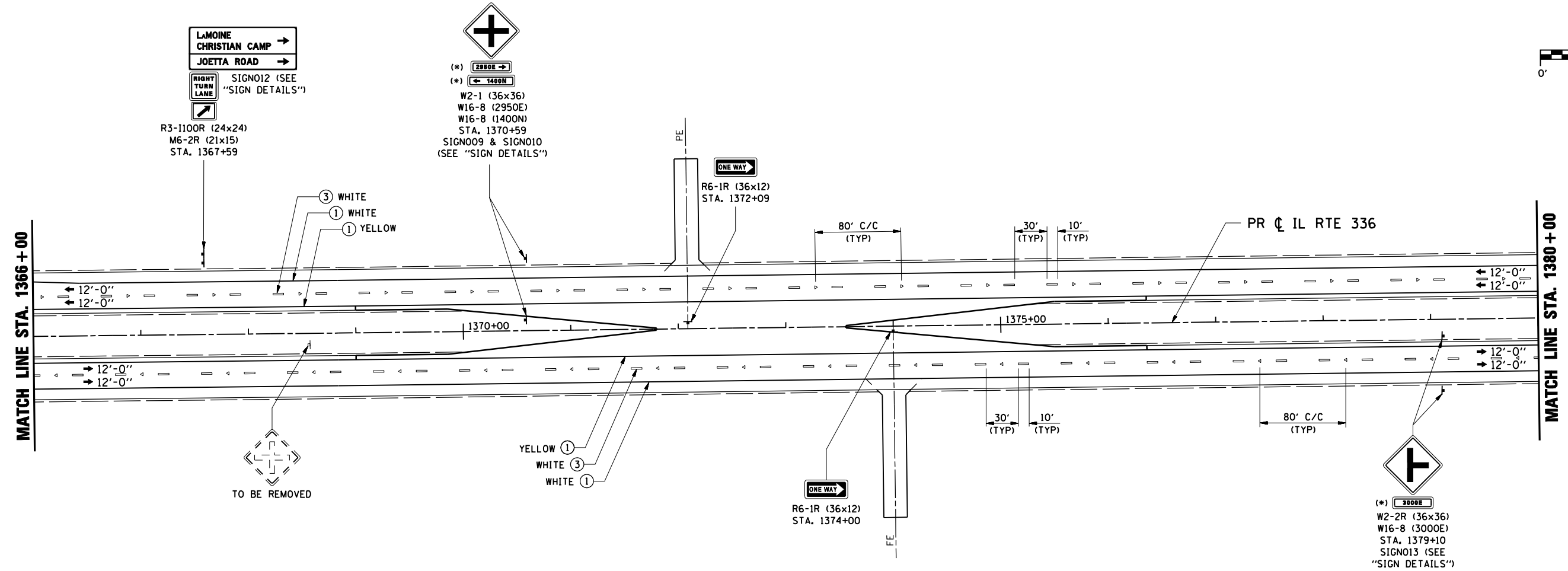
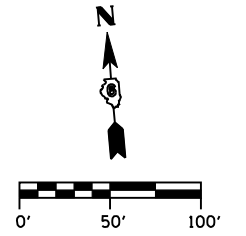
SCALE: _____
DATE: MARCH 10, 2006

DRAWN BY: RG
CHECKED BY: JAC

•DGN: SPEC•
•DATE: TIME•
•REF: 01

D6 PROJECT: FILE: .

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	236
STA. 1366+00		TO STA. 1380+00		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		



LEGEND

- ① POLYUREA PAVEMENT MARKING TYPE II - LINE 5"
- ② POLYUREA PAVEMENT MARKING TYPE II - LINE 6"
- ③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 5"
- ④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 24"
- ⑤ POLYUREA PAVEMENT MARKING, TYPE II - LETTERS & SYMBOLS
- ◁ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
- ◄ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
- ◆ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
- SIGN PANEL AND POST
- PERMANENT TYPE III BARRICADE

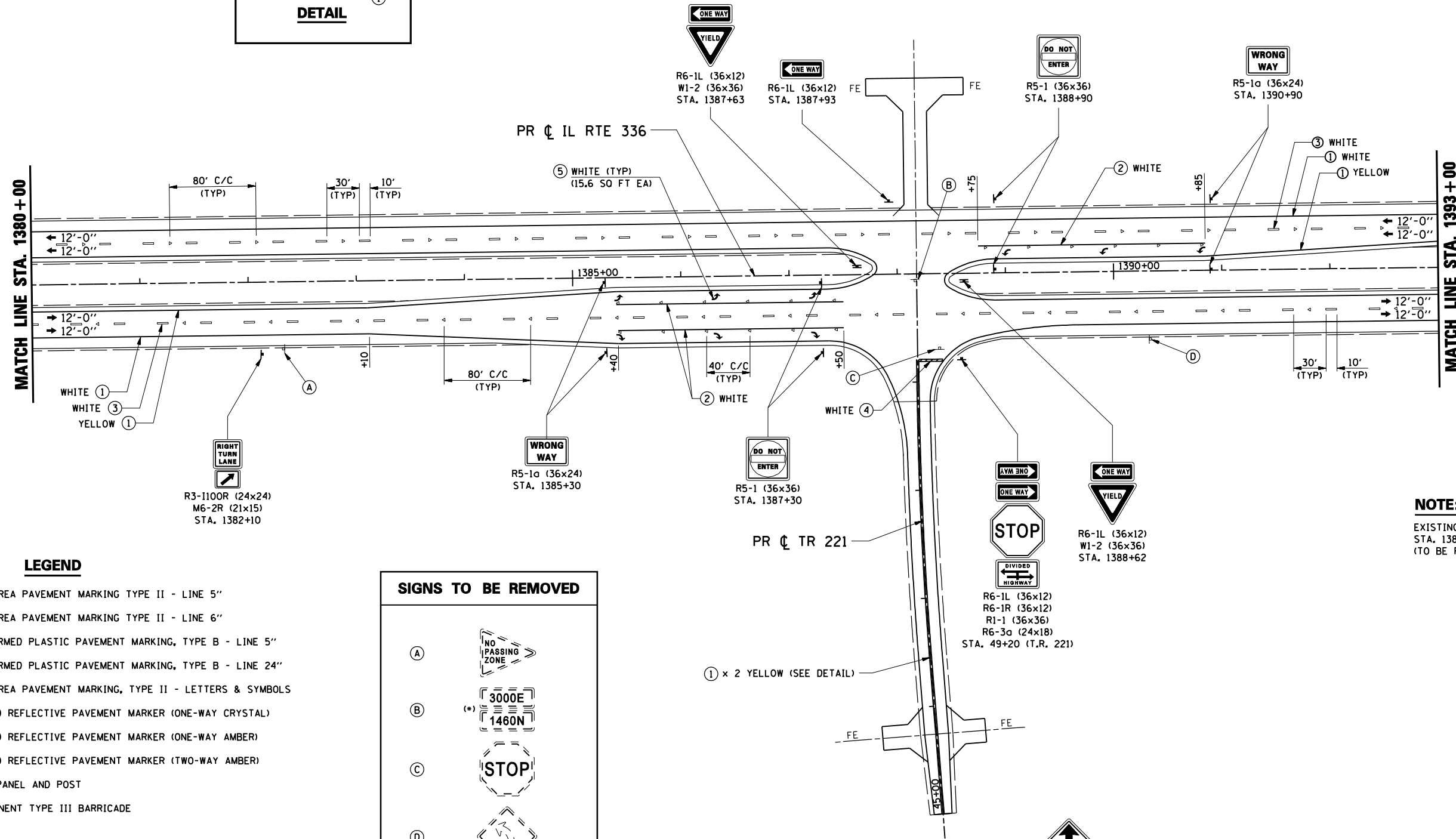
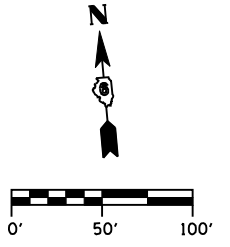
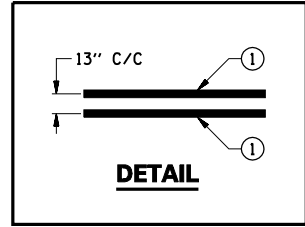
(*) PLATE TO BE FURNISHED AND INSTALLED LATER BY DISTRICT SIGN SHOP.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING & SIGNING PLAN
IL RTE 336
STA. 1366+00 TO STA. 1380+00
 SCALE: DATE: MARCH 10, 2006
 DRAWN BY: RG
 CHECKED BY: JAC

•DGN-SPEC•
 •DATE-TIME•
 •REF01

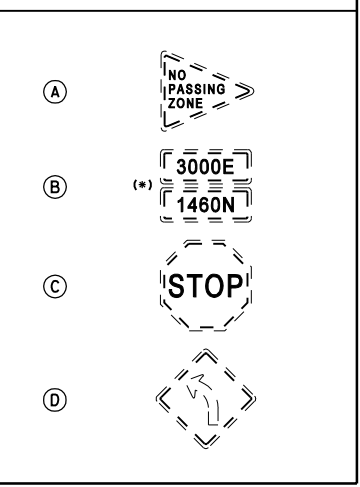
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	237
STA. 1380+00 TO STA. 1393+00		FED. ROAD DIST. No. ILLINOIS FED. AID PROJECT		



LEGEND

- ① POLYUREA PAVEMENT MARKING TYPE II - LINE 5"
- ② POLYUREA PAVEMENT MARKING TYPE II - LINE 6"
- ③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 5"
- ④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 24"
- ⑤ POLYUREA PAVEMENT MARKING, TYPE II - LETTERS & SYMBOLS
- ◁ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
- ◄ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
- ◆ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
- SIGN PANEL AND POST
- ▬ PERMANENT TYPE III BARRICADE

SIGNS TO BE REMOVED



(*) SALVAGE TO HANCOCK COUNTY HIGHWAY DEPT.

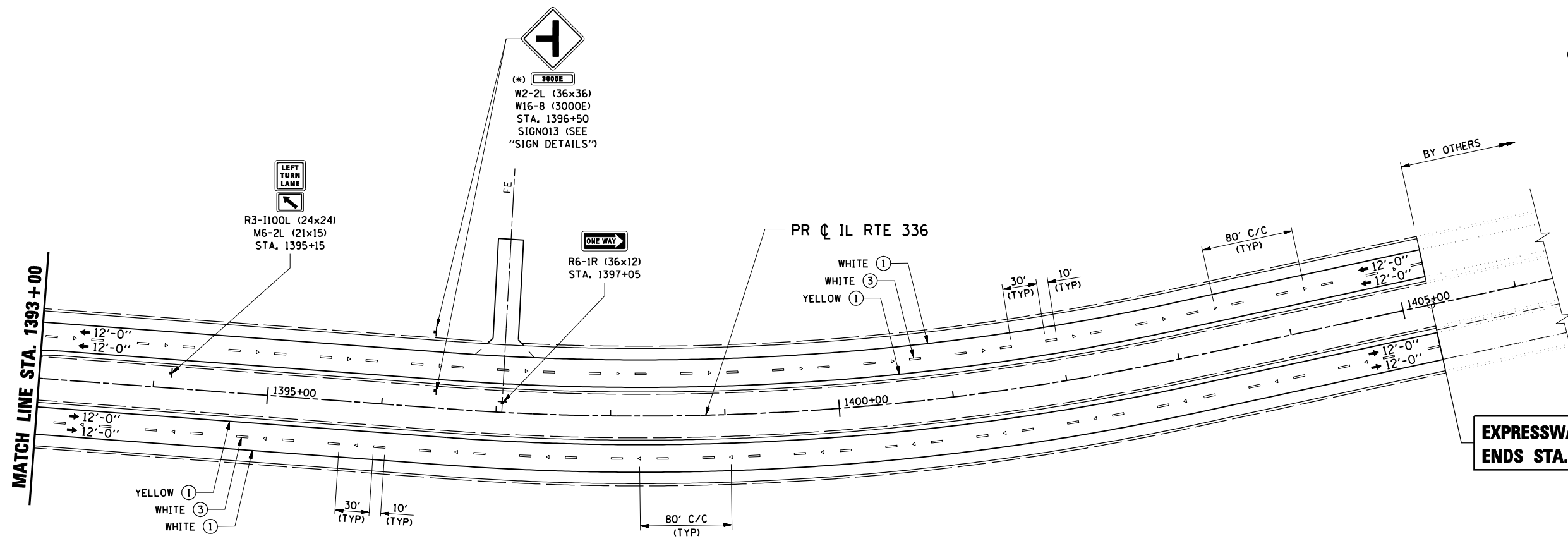
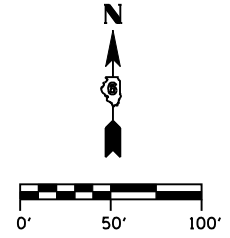
NOTE:
EXISTING BUSINESS SIGN AT STA. 1388+71±, 90' RT (TO BE REMOVED BY OTHERS)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING & SIGNING PLAN
IL RTE 336
STA. 1380+00 TO STA. 1393+00
SCALE: _____ DRAWN BY: RG
DATE: MARCH 10, 2006 CHECKED BY: JAC

•DGN-SPEC•
•DATE-TIME•
•REF01

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	238
STA. 1393+00		TO STA. 1405+25		
FED. ROAD DIST. No.		ILLINOIS	FED. AID PROJECT	



(*) PLATE TO BE FURNISHED AND INSTALLED LATER BY DISTRICT SIGN SHOP.

LEGEND

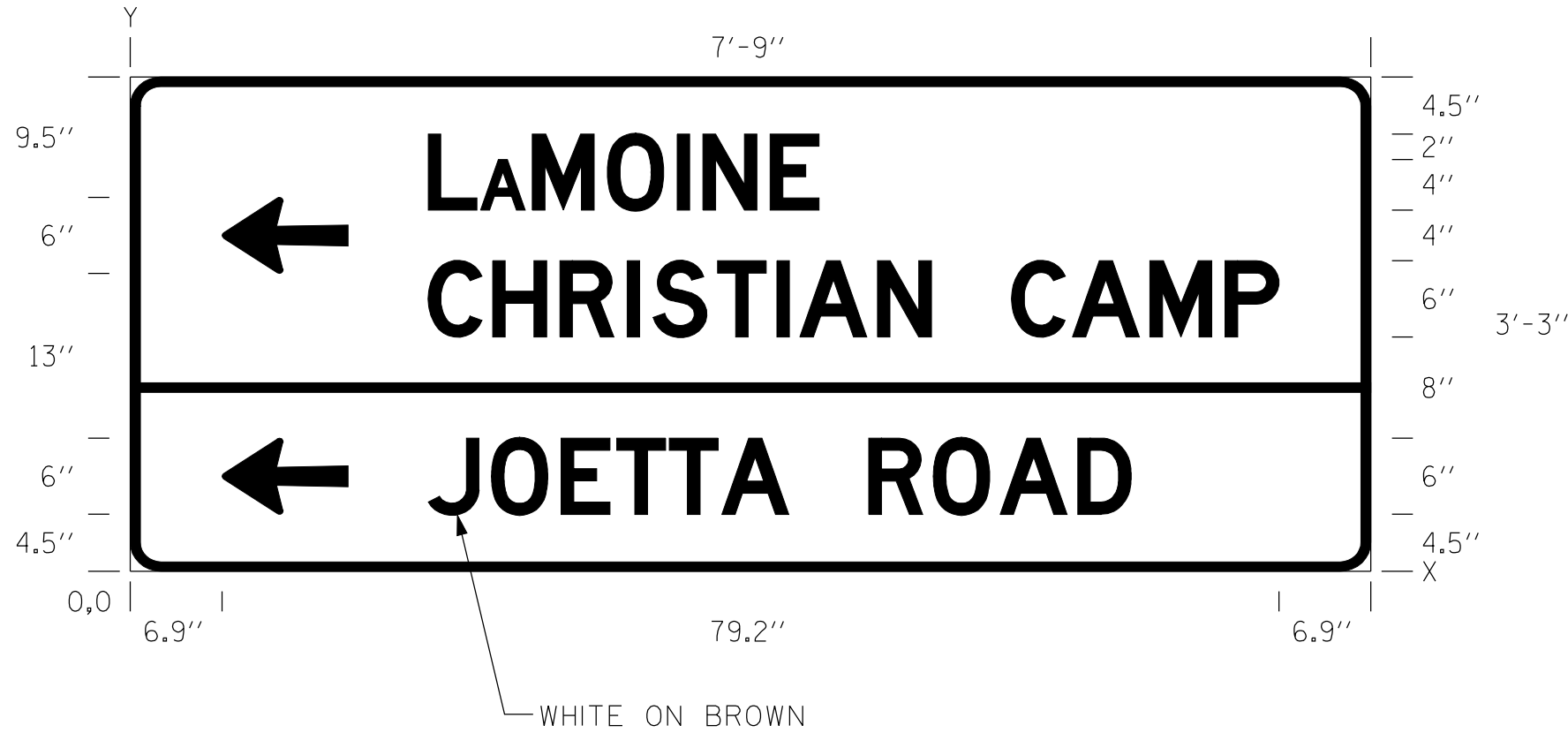
- ① POLYUREA PAVEMENT MARKING TYPE II - LINE 5"
- ② POLYUREA PAVEMENT MARKING TYPE II - LINE 6"
- ③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 5"
- ④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 24"
- ⑤ POLYUREA PAVEMENT MARKING, TYPE II - LETTERS & SYMBOLS
- ◁ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL)
- ◄ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER)
- ◆ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER)
- SIGN PANEL AND POST
- ▬ PERMANENT TYPE III BARRICADE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING & SIGNING PLAN
IL RTE 336
STA. 1393+00 TO STA. 1405+25
 SCALE: DATE: MARCH 10, 2006
 DRAWN BY: RG
 CHECKED BY: JAC

•DGN: SPEC•
 •DATE: TIME•
 •REF: 01

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	239
STA.		TO STA.		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		



SIGN NUMBER	SIGNDETII
WIDTH × HEIGHT	7'-9" × 3'-3"
BORDER WIDTH	0.8"
CORNER RADIUS	2.3"
MOUNTING	GROUND
BACKGROUND	TYPE: REFLECTIVE
	COLOR: BROWN
LEGEND/BORDER	TYPE: REFLECTIVE
	COLOR: WHITE

SYMBOL	X	Y	WID	HT
ARLONG,180deg	6.9	23.5	9.4	6.0
ARLONG,180deg	6.9	4.5	9.4	6.0

DIMENSIONS IN INCHES

COORDINATES ARE TO LOWER LEFT CORNERS

Y FONT	LETTER POSITIONS (X)														HT LEN																									
28.5 D	L	A	M	O	I	N	E																																6.0	
	22.3	26.3	30.1	35.8	41.0	42.9	48.0																																	29.3
18.5 D	C	H	R	I	S	T	I	A	N	C	A	M	P																											6.0
	22.3	27.2	32.2	37.2	39.2	44.0	48.5	50.2	56.0	66.1	70.6	76.4	82.1																											63.8
4.5 D	J	O	E	T	T	A	R	O	A	D																													6.0	
	22.3	27.1	32.3	36.5	40.4	44.3	55.4	60.2	65.2	71.0																													52.7	

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

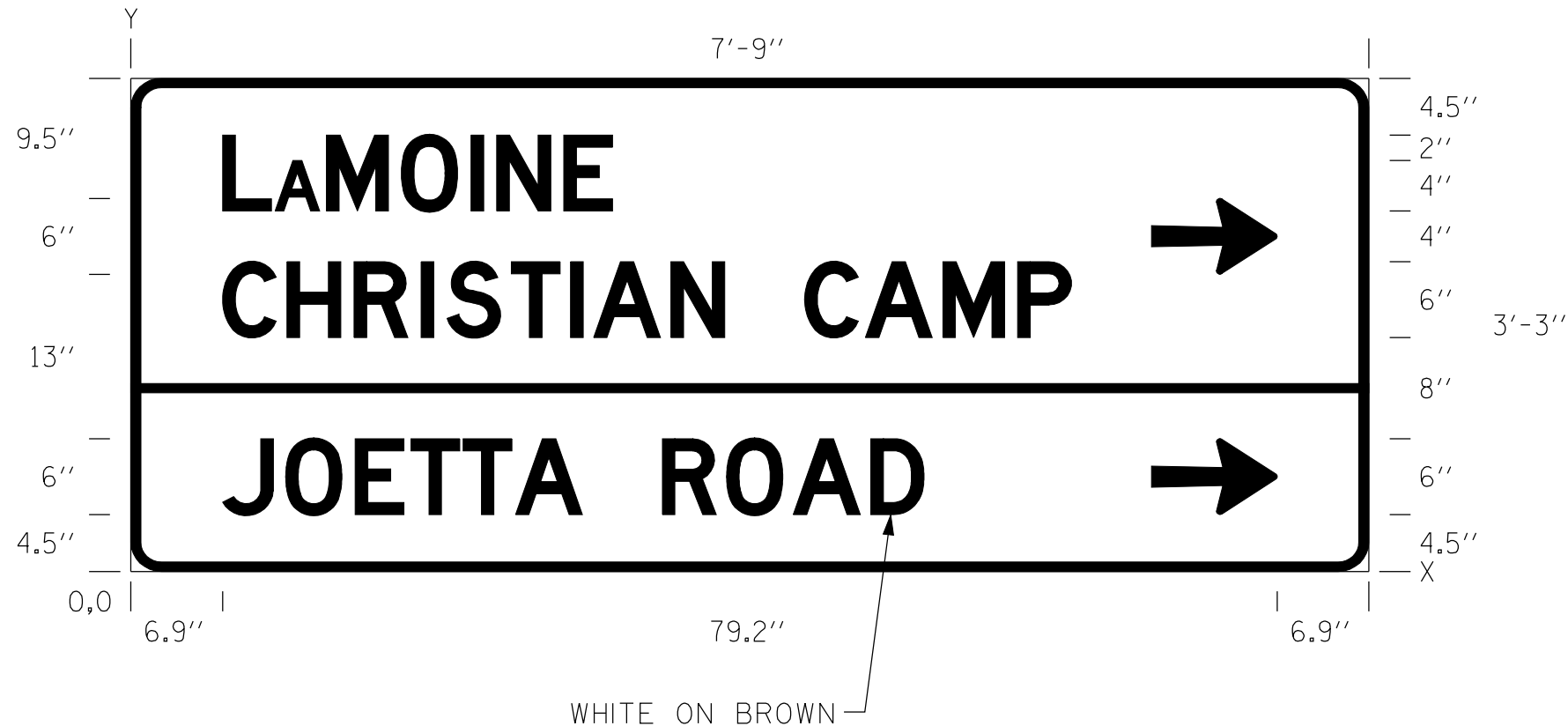
SIGN PANEL DETAILS

SCALE: DATE: MARCH 10, 2006

DRAWN BY: RG
CHECKED BY: JAC

•DGN-SPEC•
•DATE-TIME•
•REF01

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	240
STA.		TO STA.		
FED. ROAD DIST. No.		ILLINOIS	FED. AID PROJECT	



SIGN NUMBER	SIGNET12
WIDTH × HEIGHT	7'-9" × 3'-3"
BORDER WIDTH	0.8"
CORNER RADIUS	2.3"
MOUNTING	GROUND
BACKGROUND	TYPE: REFLECTIVE
	COLOR: BROWN
LEGEND/BORDER	TYPE: REFLECTIVE
	COLOR: WHITE

SYMBOL	X	Y	WID	HT
ARLONG	76.7	23.5	9.4	6.0
ARLONG	76.7	4.5	9.4	6.0

DIMENSIONS IN INCHES

COORDINATES ARE TO LOWER LEFT CORNERS

Y FONT	LETTER POSITIONS (X)																		HT LEN	
28.5	L	A	M	O	I	N	E													6.0
D	6.9	10.8	14.7	20.3	25.6	27.5	32.5													29.3
18.5	C	H	R	I	S	T	I	A	N	C	A	M	P							6.0
D	6.9	11.7	16.8	21.8	23.8	28.6	33.0	34.8	40.6	50.6	55.2	61.0	66.6							63.8
4.5	J	O	E	T	T	A	R	O	A	D										6.0
D	6.9	11.6	16.9	21.0	25.0	28.9	39.9	44.8	49.8	55.6										52.7

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

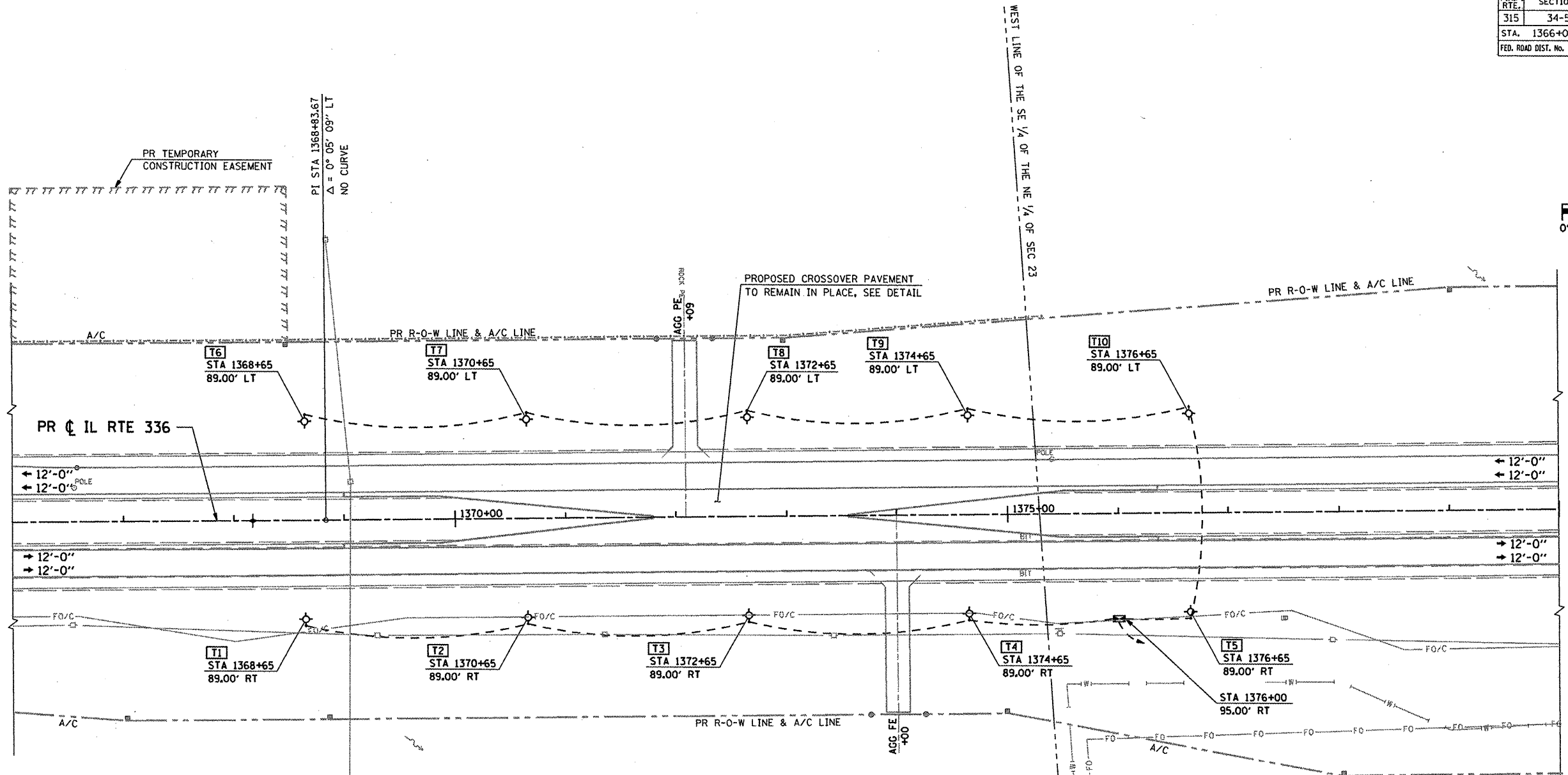
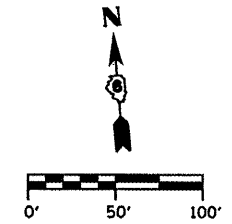
SIGN PANEL DETAILS

SCALE: DATE: MARCH 10, 2006

DRAWN BY: RG
CHECKED BY: JAC

•DGN-SPEC•
•DATE-TIME•
•REF01

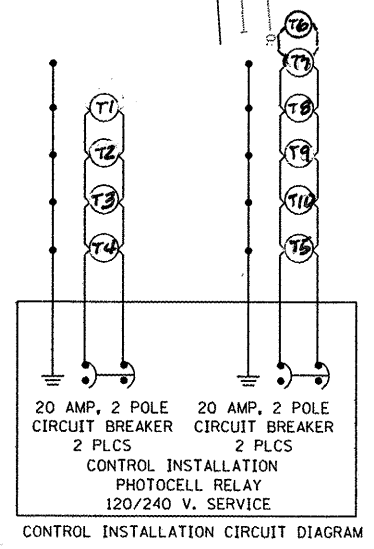
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	241
STA. 1366+00		TO STA. 1380+00		
FED. ROAD DIST. No.		ILLINOIS	FED. AID PROJECT	



CODE NO.	ITEM	UNIT	QUANTITY
80400100	ELECTRIC SERVICE INSTALATION	EACH	1
80700106	GROUND ROD, 5/8" DIA. x 10 FT.	EACH	1
80803100	WOOD LIGHTING POLE, 50 FOOT, CLASS 3	EACH	10
81800620	AERIAL CABLE, 2-1C NO. 4, ALUMINUM, WITH MESSENGER WIRE	FOOT	1800
82103800	LUMINAIRE, SODIUM VAPOR, MULTI-MOUNT, 250 WATT	EACH	10
87500805	LIGHTING CONTROLLER PHOTOCELL RELAY	EACH	1
X220000	ELECTRIC SERVICE INSTALLATION	EACH	1

LEGEND

- ⊙ WOOD LIGHTING POLE 50' CLASS 3
W / LUMINAIRE, SODIUM VAPOR, MULTI-MOUNT, 250 WATT
- ☒ LIGHTING CONTROLLER PHOTOCELL
120 / 240 VOLT SERVICE (POLE MOUNT)
- - - AERIAL CABLE, 2-1/C #4 ALUMINUM WITH
MESSENGER WIRE.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TEMPORARY LIGHTING PLAN
IL RTE 336
STA. 1366+00 TO STA. 1380+00
 SCALE: _____ DRAWN BY: RG
 DATE: MARCH 10, 2006 CHECKED BY: JAC

DN-SPEC
 DATE-TIME
 REF#

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	242
STA.		TO STA.		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		

LIGHTING GENERAL NOTES:

1. QUANTITIES OF PUSHED CONDUIT, ELECTRICAL CABLE AND TRENCH WHERE INDICATED ON THE PLANS, ARE APPROXIMATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND SHALL INSTALL RACEWAYS IN COMPLETE CONFORMANCE WITH SPECIFIED REQUIREMENTS.
2. EQUIPMENT GROUND CONDUCTORS SHALL BE SPLICED AND BONDED TO EACH LIGHT POLE.
3. COMMONWEALTH EDISON COMPANY SHALL BE CONTACTED AS SOON AS POSSIBLE AND NOTIFIED OF PENDING SERVICE CONNECTIONS AND INSTALLATIONS TO INSURE CONTINUITY OF NIGHT TIME HOURS OF LIGHTING OPERATION.
4. NO EQUIPMENT OR MATERIAL SHALL BE DELIVERED TO THE JOB SITE PRIOR TO THE APPROVAL AND INSPECTION BY THE ENGINEER. ANY EQUIPMENT OR MATERIAL DELIVERED TO THE JOB SITE PRIOR TO APPROVAL AND INSPECTION SHALL BE REMOVED FROM THE JOB SITE AT THE CONTRACTOR'S EXPENSE.
5. THE PROPOSED LIGHTING CONTROL CABINET SHALL BE INSTALLED WITHIN THE RIGHT-OF-WAY WITH THE EXACT LOCATION TO BE CONFIRMED IN THE FIELD.
6. PROVIDE A 5/8" DIA. X 10' LONG GROUND ROD AT THE BASE OF EACH LIGHT UNIT.
7. THE ELECTRICAL WORK SHALL BE IN CONFORMANCE WITH THE NATIONAL AND LOCAL ELECTRICAL CODES.

LIGHTING BILL OF MATERIALS			
CODE NO.	ITEM	UNIT	QUANTITY
XX220000	REMOVE EXISTING LIGHTING	EACH	1

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

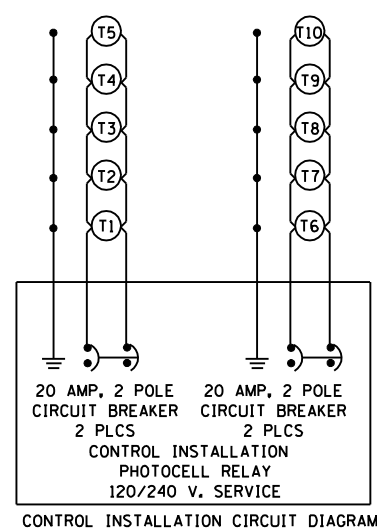
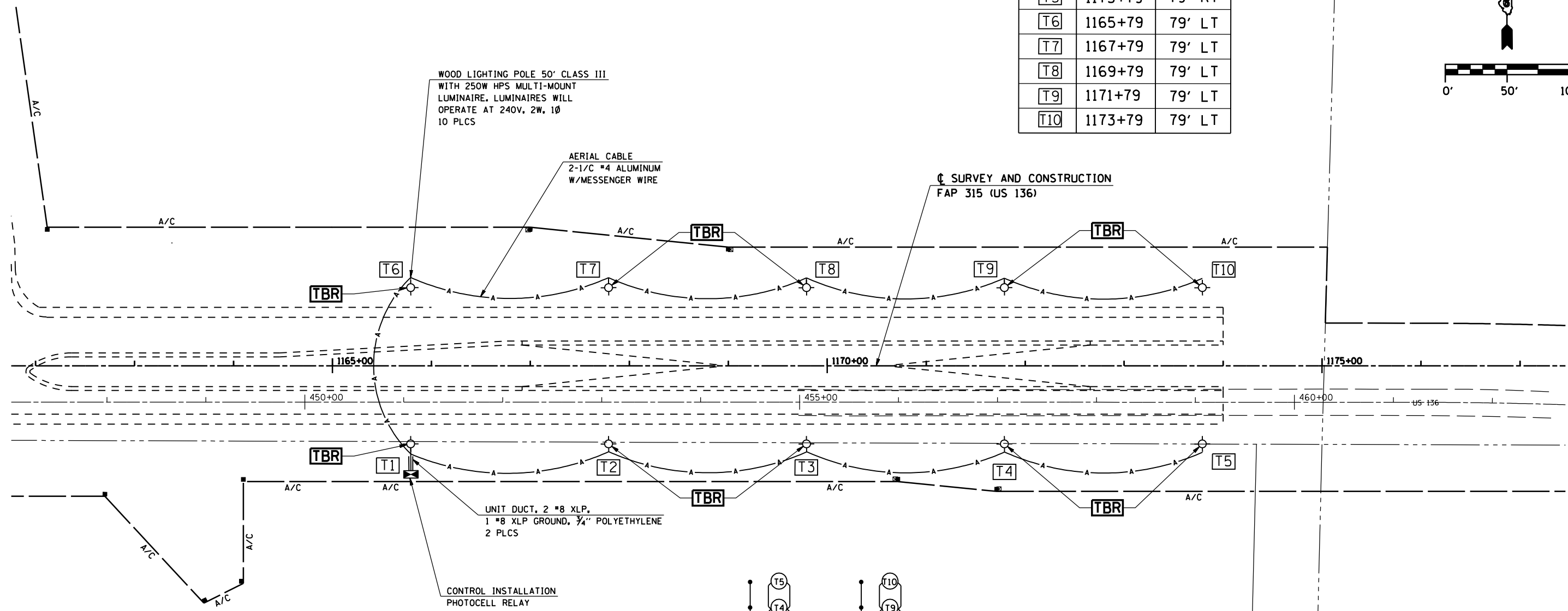
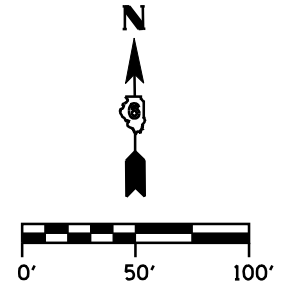
**LIGHTING GENERAL NOTES
AND
LIGHTING BILL OF MATERIALS**

SCALE: DRAWN BY: RG
DATE: MARCH 10, 2006 CHECKED BY: JAC

DGN-SPEC
DATE-TIME
*REF01

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	243
STA. 1162+00.00		TO STA. 1177+00.00		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		

POLE	STATION	OFFSET
T1	1165+79	79' RT
T2	1167+79	79' RT
T3	1169+79	79' RT
T4	1171+79	79' RT
T5	1173+79	79' RT
T6	1165+79	79' LT
T7	1167+79	79' LT
T8	1169+79	79' LT
T9	1171+79	79' LT
T10	1173+79	79' LT



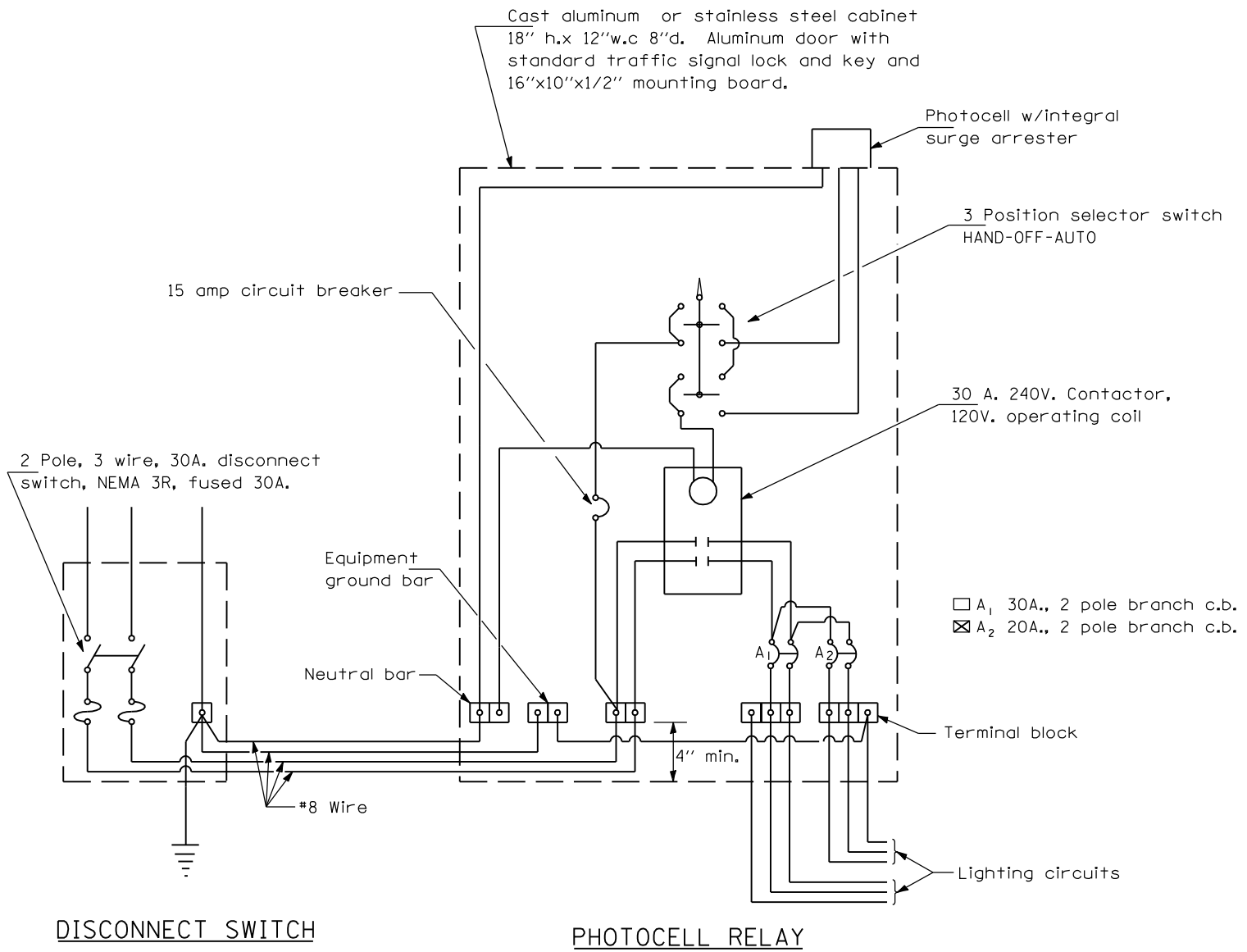
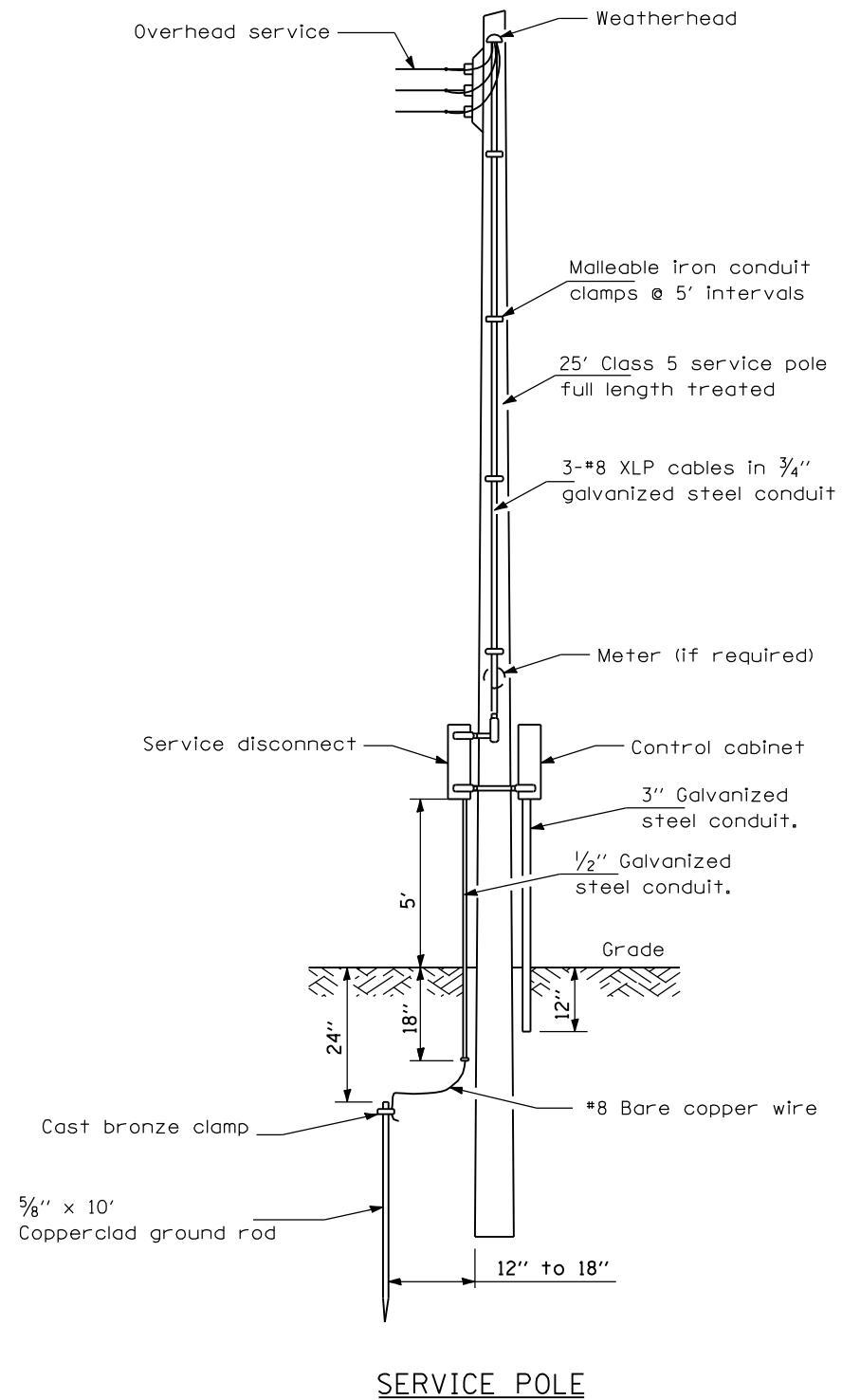
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAP 315 (US 136)
LIGHTING PLAN
CROSSOVER @ STA 1170+00
 SCALE: 1" = 50'-0"
 DATE: MARCH 10, 2006
 DRAWN BY: RG
 CHECKED BY: JAC

DGN-SPEC
 DATE-TIME
 *REF01

D6 PROJECT: FILE:

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	244
STA.		TO STA.		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		



GENERAL NOTES

All equipment shall be U.L. Listed.
 All dimensions are in inches unless otherwise shown.

**CONTROL INSTALLATION
 SERVICE POLE MOUNTED**

120/240V., 1 PHASE, 3 WIRE SERVICE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**FAP 315 (US 136)
 LIGHTING PLANS
 LIGHTING DETAILS**

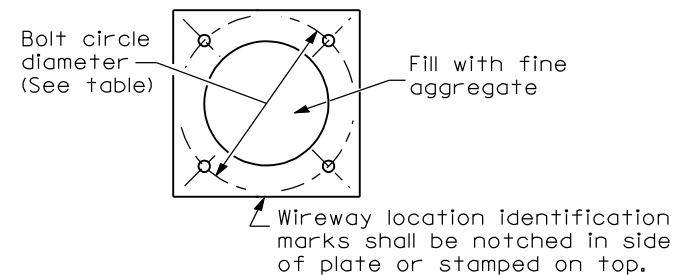
SCALE: DRAWN BY: RG
 DATE: MARCH 10, 2006 CHECKED BY: JAC

DGN-SPEC
 DATE-TIME
 *REF01

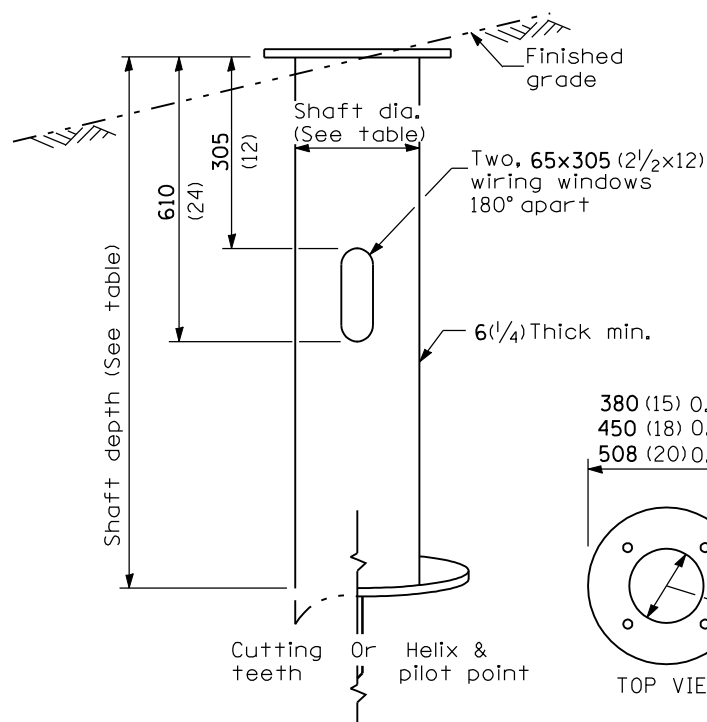
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	245
STA.		TO STA.		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		

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

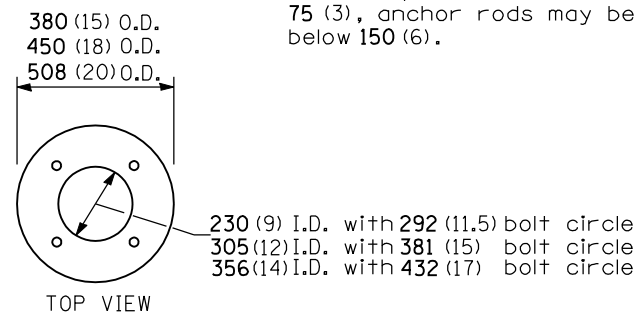
- ① Length does not include 100(4)hook
- ② 220 mm x 2.44 m (8 5/8" x 8'-0") for Twin luminaires
- ③ Bolt circle diam. shall be 430 (17) when a TB3-17 transformer base is used



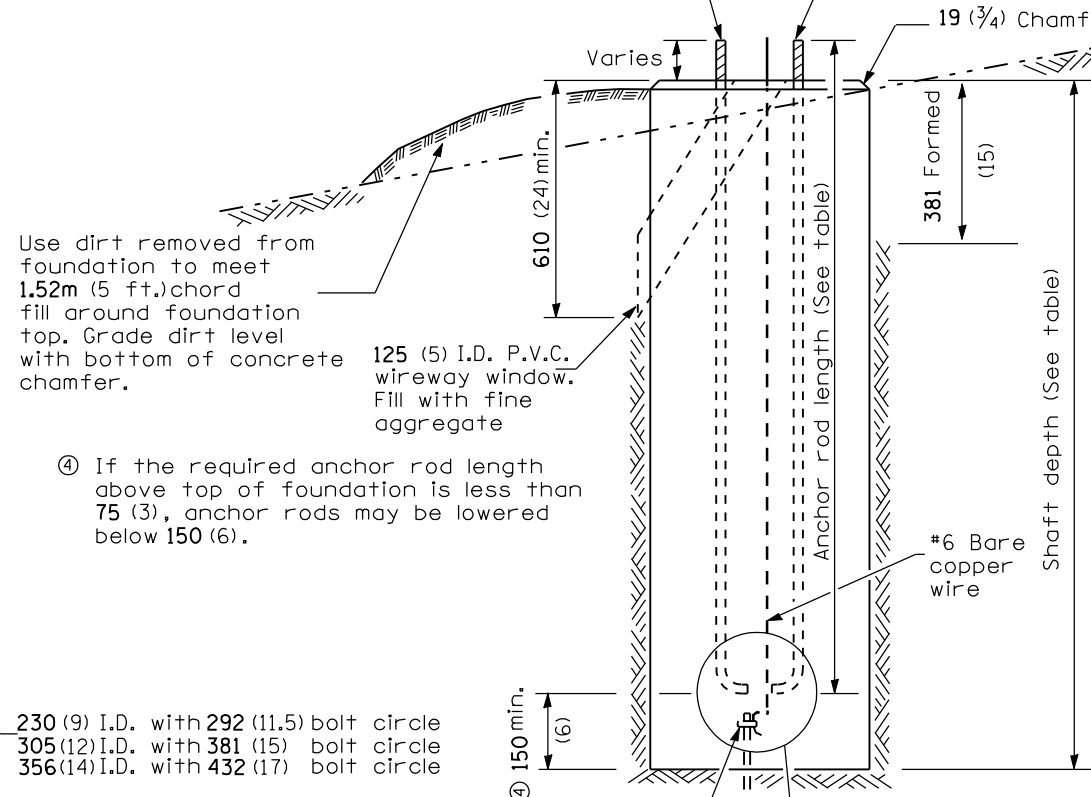
Length above foundation shall be adjusted to accommodate breakaway devices furnished by the contractor for a specific installation.



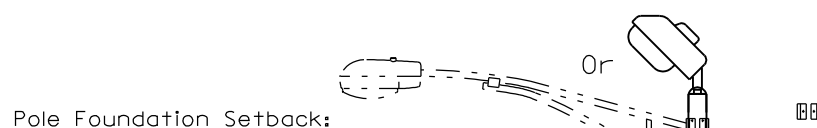
STEEL FOUNDATION



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



CONCRETE FOUNDATION



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

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

Notes:

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

LIGHT POLE FOUNDATION

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

FAP 315 (US 136)
LIGHTING PLANS
LIGHTING DETAILS

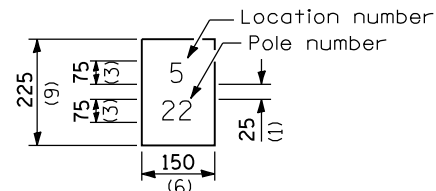
SCALE: DATE: MARCH 10, 2006

DRAWN BY: RG
CHECKED BY: JAC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	246
STA.		TO STA.		
FED. ROAD DIST. No.		ILLINOIS FED. AID PROJECT		

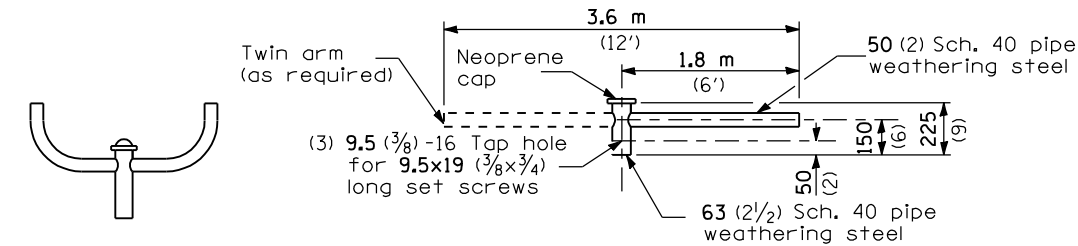
"Install and orient arm bracket over pole tenon and firmly hand tighten the two set screws. Use third hole in arm bracket as a guide to drill a 8.3 (5/8) diameter hole through tenon. Install and tighten self-tapping screw. Tighten set screws an additional (1/4 to 3/8) turn with hex key (not provided).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

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



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

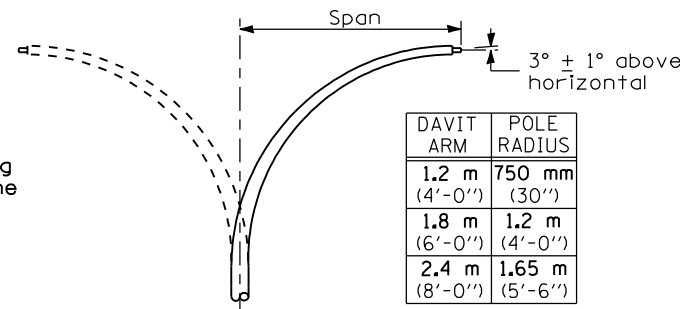
The light pole identification shall be applied to sign base material as specified in section 1085.05 of the Standard Specifications, approximately 180 (7) above the adjacent pavement grade visible to approaching traffic in accordance with Highway Standard 2319.



TWIN TENON

TENON MOUNT BRACKET ARM

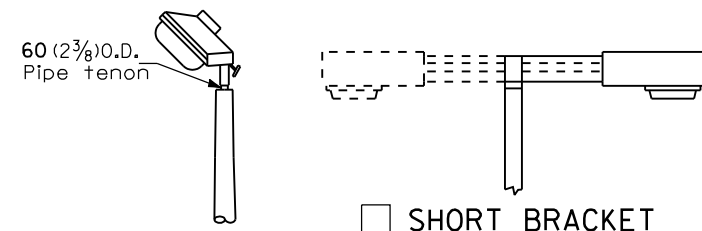
NOTE: Single or twin arm assembly shall be tilted 3° above horizontal.



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

DAVIT ARM (and or)

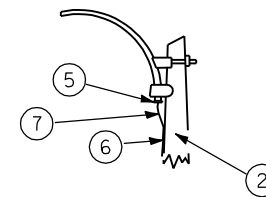
DAVIT ARM-TWIN



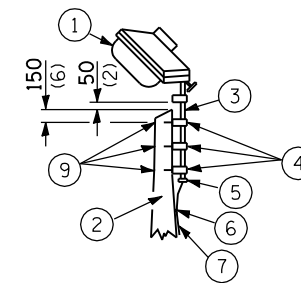
TENON

SHORT BRACKET

SHORT BRACKET - TWIN

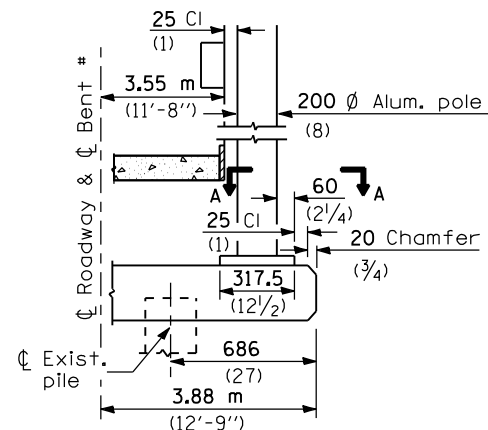


MAST ARM

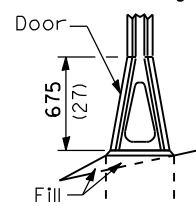


TENON

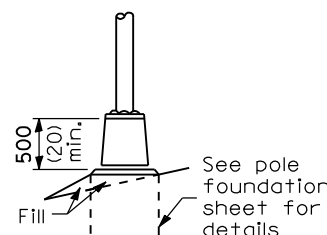
- ① Luminaire
- ② Wood pole, class 3 or better
- ③ 63 (2 1/2) Galv. steel conduit
- ④ Single offset pole band
- ⑤ Conduit bushing
- ⑥ Cable clamps on 600 (24) centers
- ⑦ 2/c #12 Type use cable
- ⑧ 25 (1) Galv. steel conduit 3.0 m (10') in length
- ⑨ 16 (5/8) Ø hot dipped galvanized bolt with flat washer & locknut (3 req'd)
- ⑩ Conduit clamps on 900 (36) centers
- ⑪ Unit duct
- ⑫ Threaded reducer
- ⑬ "C" Condulet, threaded
- ⑭ 40 (1 1/2) Galv. steel conduit for 1 unit duct or 75 (3) galv. steel conduit for 2 or 3 unit ducts.



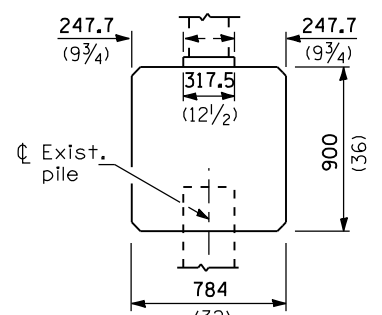
BENT # (Looking)



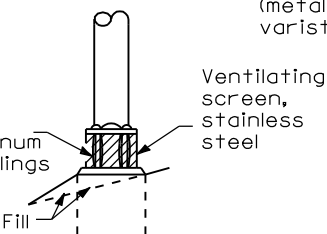
STAINLESS STEEL FLAIR BASE



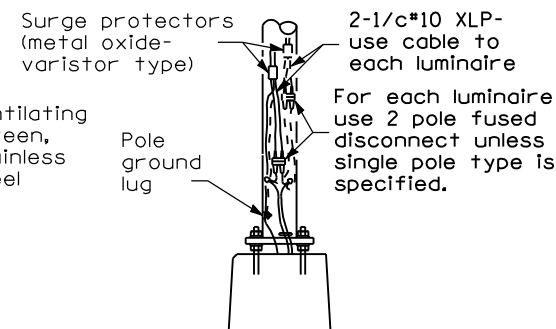
TRANSFORMER BASE



BRIDGE PIER MOUNT



BREAKAWAY COUPLING

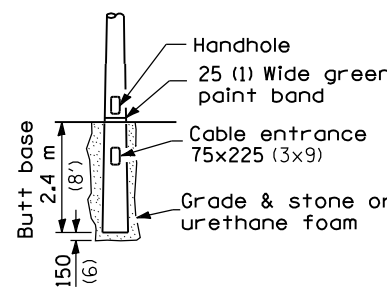


ANCHOR

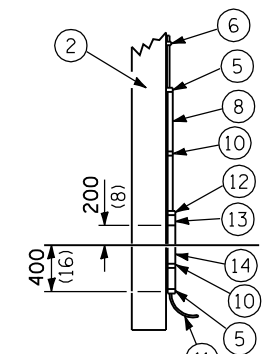
METAL OR CONCRETE

Details for underground distribution if required

Details for underground distribution if required



BUTT BASE



POLE, WOOD

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

REVISIONS	
NAME	DATE

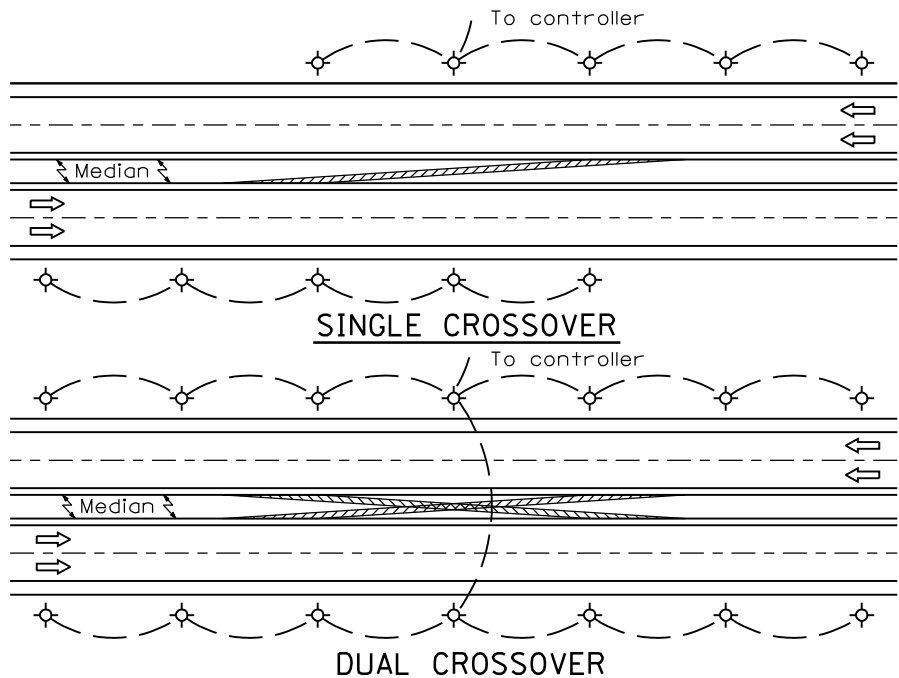
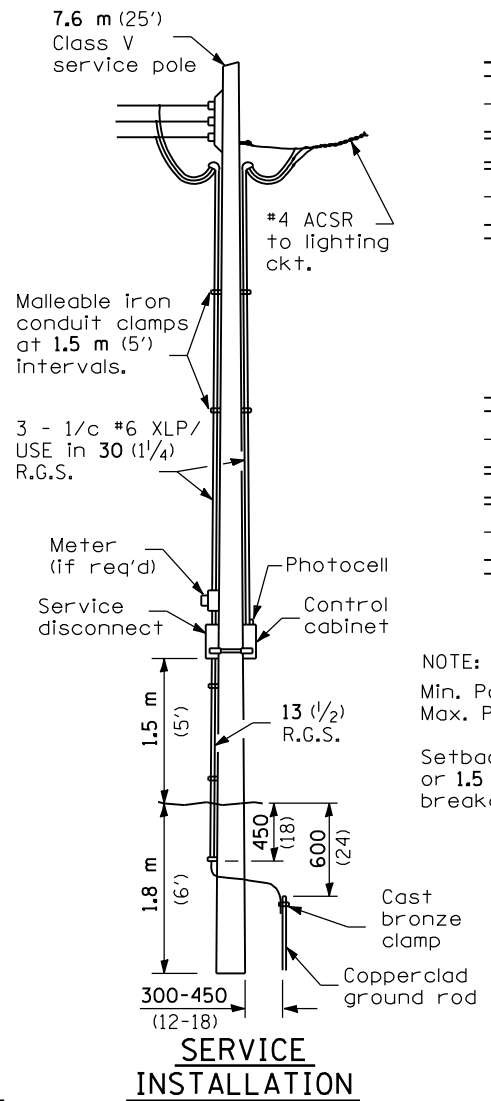
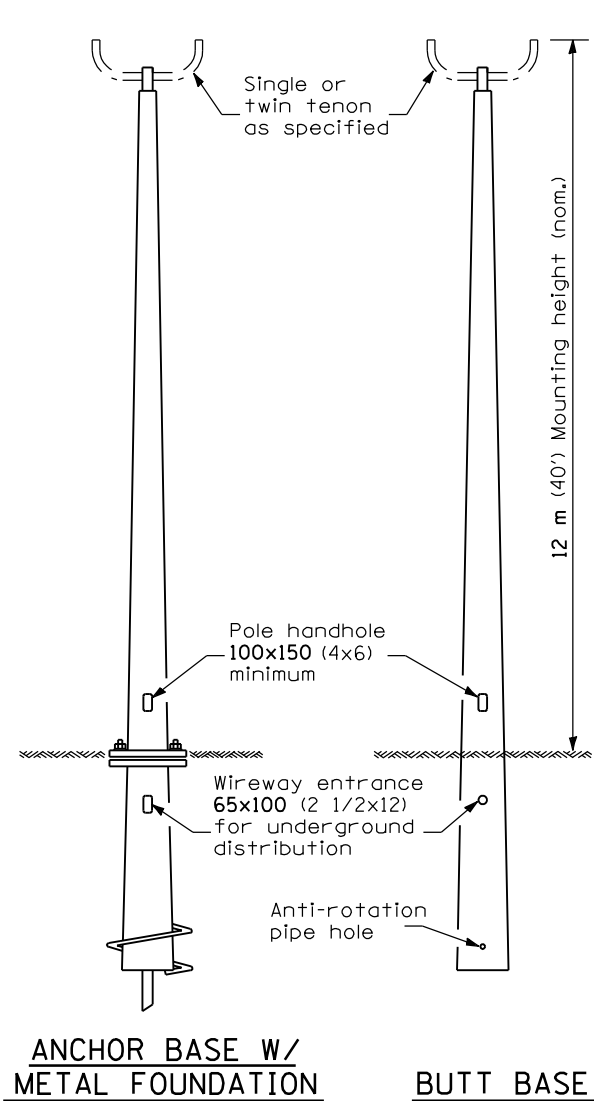
ILLINOIS DEPARTMENT OF TRANSPORTATION

FAP 315 (US 136)
LIGHTING PLANS
LIGHTING DETAILS

SCALE:
DATE: MARCH 10, 2006

DRAWN BY: RG
CHECKED BY: JAC

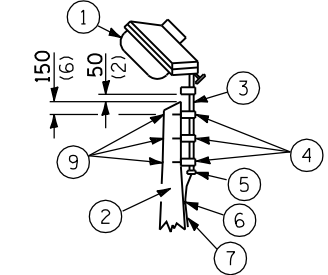
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	247
STA.		TO STA.		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		



NOTE:
Min. Pole spacing 60 m (200')
Max. Pole spacing 75 m (250')
Setback shall be min. 9 m (30') or 1.5 m (5') back of ditch, unless breakaway type pole is used.

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

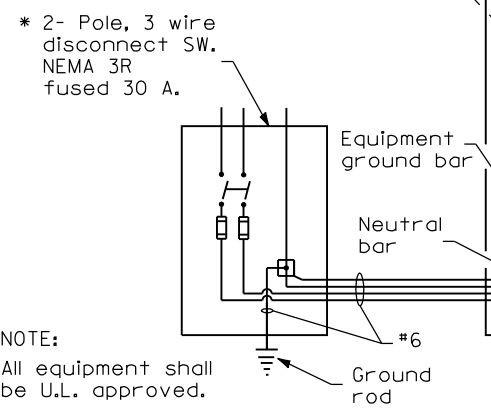
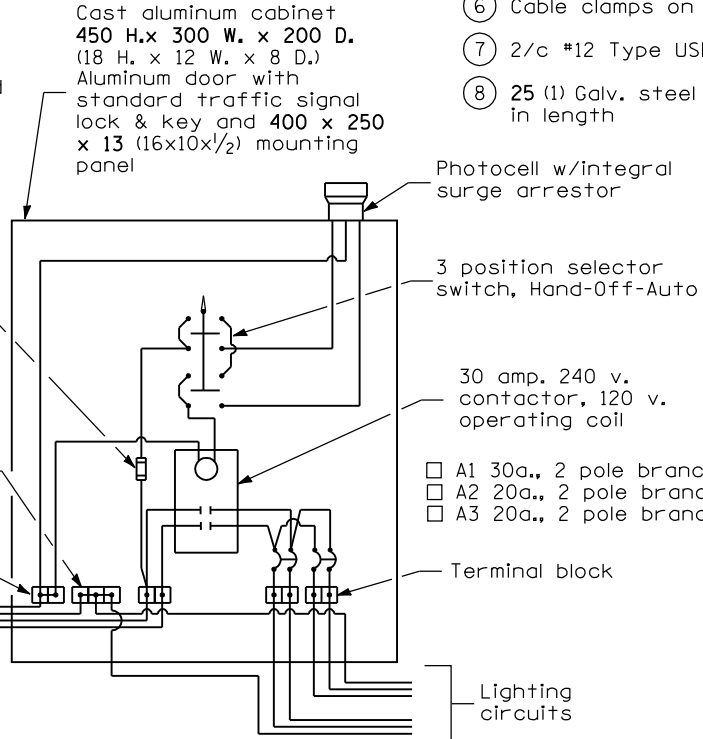
NOTE:
Luminaire(s) shall have a 2-pole inline weatherproof quick disconnect fuse holder.
Luminaire(s) shall be oriented and the mounting angle adjusted as recommended by the Engineer.
Connect luminaire equipment ground to ACSR messenger.



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

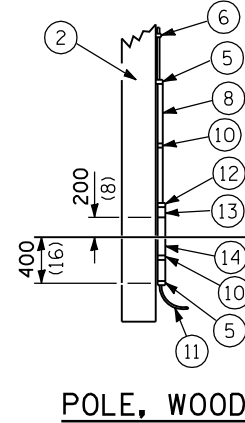
POLE, FIBERGLASS BREAKAWAY TYPE

SERVICE INSTALLATION



NOTE:
All equipment shall be U.L. approved.
* 30 A. or 60 A., dependent upon utility co. rules.

WIRING DIAGRAM



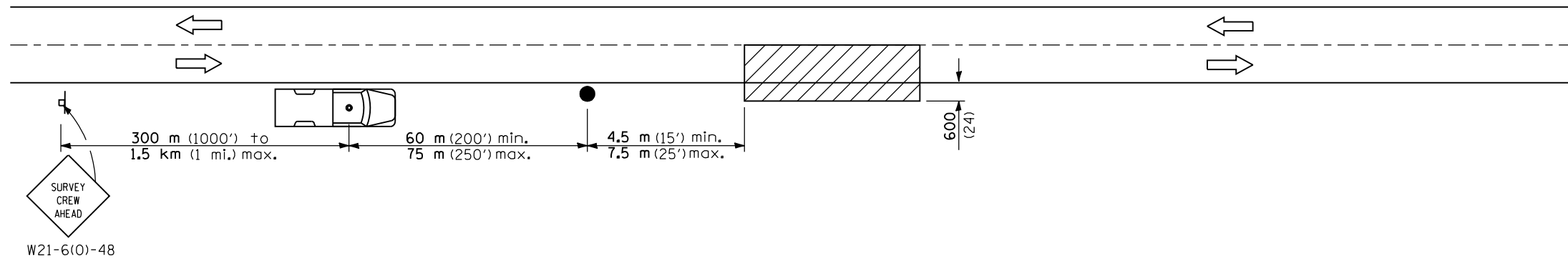
POLE LENGTH	DEPTH IN GROUND
19.8 m (65')	3.6 m (12')
18.0 m (60')	3.0 m (10')
16.8 m (55')	2.7 m (9')
16.0 m (50')	2.4 m (8')
13.7 m (45')	2.1 m (7')
12.0 m (40')	2.0 m (6.5')
10.7 m (35')	1.8 m (6')
9.0 m (30')	1.7 m (5.5')

TEMPORARY ROADWAY LIGHTING

REVISIONS	
NAME	DATE

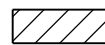
ILLINOIS DEPARTMENT OF TRANSPORTATION
FAP 315 (US 136)
LIGHTING PLANS
LIGHTING DETAILS
SCALE: _____ DRAWN BY: RG
DATE: MARCH 10, 2006 CHECKED BY: JAC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	248
STA.		TO STA.		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		



FLAGGER SHALL BE EQUIPPED WITH AND REQUIRED TO USE A HIGH INTENSITY, OR HIGH PERFORMANCE " STOP - SLOW " TRAFFIC CONTROL PADDLE. FLAGGER AND LIGHTING INSPECTOR SHALL BE REQUIRED TO WEAR A HIGH VISIBILITY, REFLECTIVE ORANGE VEST AND EITHER A HARD HAT OR AN ORANGE CAP.

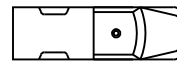
SYMBOLS



Work area



Sign on portable or permanent support



Truck with flashing amber light and dual emergency flashers



Flagger with traffic control sign

TYPICAL APPLICATIONS
Utility operations

DETAIL FOR NIGHTTIME LIGHTING INSPECTION

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

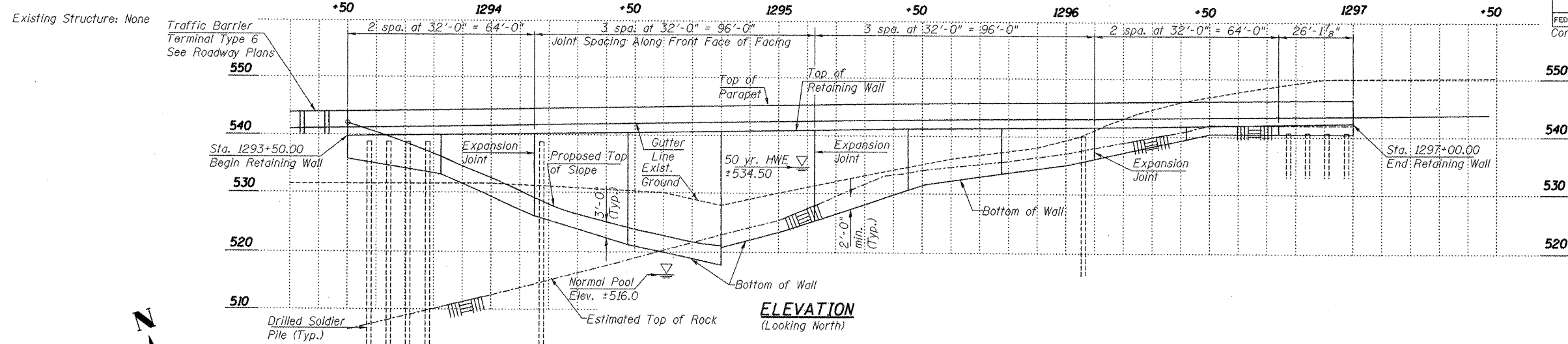
**FAP 315 (US 136)
LIGHTING PLANS
LIGHTING DETAILS**

SCALE: DRAWN BY: RG
DATE: MARCH 10, 2006 CHECKED BY: JAC

Bench Mark: TA-245 chiseled "□" center of south concrete headwall of double box 1.45 miles east along US Route 136 from TR 2700 E., Elev. 529.90.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 1
315	34-5(5B)	HANCOCK	612	249	18 SHEETS

FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT-
Contract No: 72682



CURVE DATA

P.I. STA. 1293+06.01
 $\Delta = 16^\circ 17' 26''$ (RT.)
 $D = 2^\circ 43' 40''$
 $R = 2100.46'$
 $T = 300.63'$
 $L = 597.21'$
 $E = 21.41'$
 $e = 6.0\%$
 $T.R. = 39'$
 $S.E. RUN = 270'$
 P.C. STA. 1290+05.38
 P.T. STA. 1296+02.59

INDEX OF SHEETS

- 1 General Plan and Elevation
- 2 General Notes and Total Bill of Material
- 3-4 Retaining Wall Details
- 5-6 Soldier Pile Layout
- 7-8 C.I.P. Concrete Facing
- 9-11 Parapet and Anchorage Slab Details
- 12-18 Boring Logs and Rock Cores

LOADING

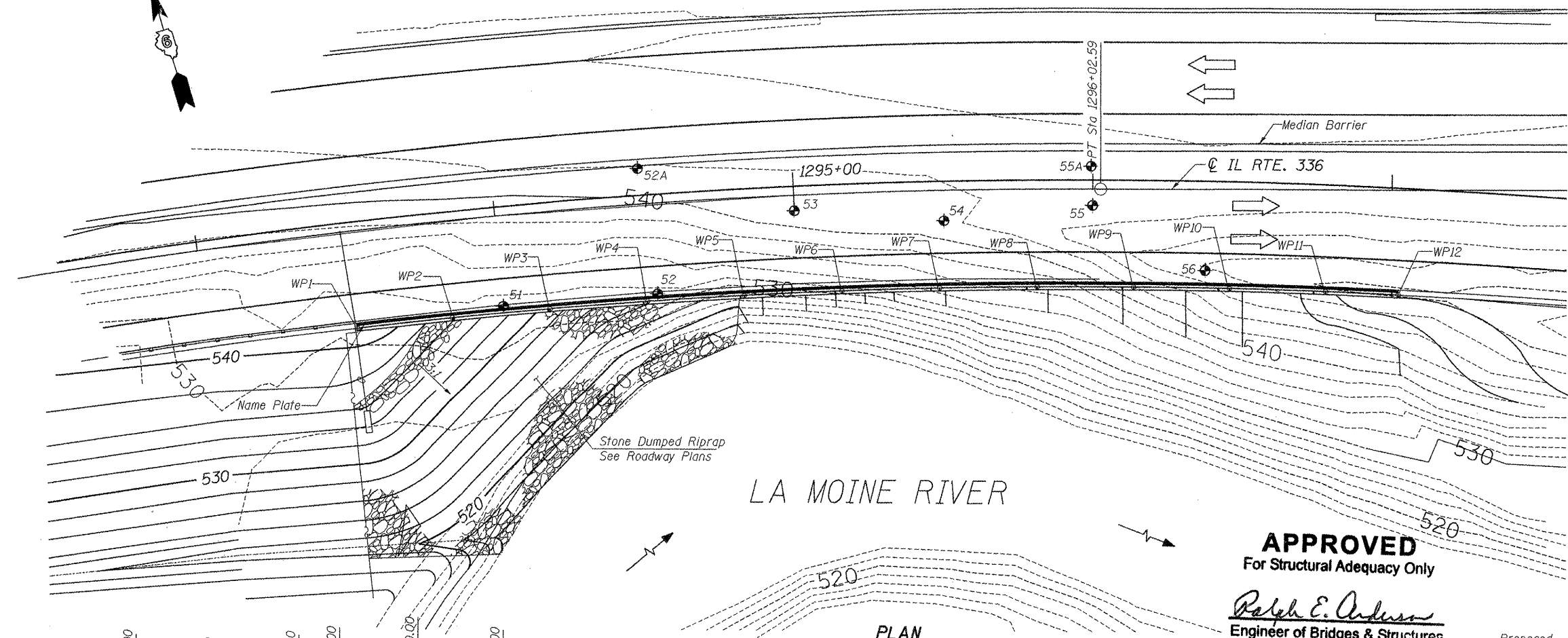
Equilvant Fluid Lateral
 Soil Pressure = 40 lb/ft²/ft
 (Wall Height)
 Live Load Surcharge =
 80 lb/ft²/ft Length of Wall

DESIGN SPECIFICATIONS

2002 AASHTO

DESIGN STRESSES

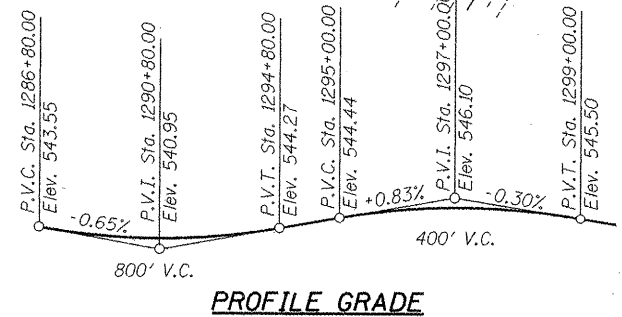
f_y Structural Steel = 36 ksi
 f_y Reinforcement = 60 ksi
 f'_c Concrete = 3.5 ksi (28 day)



PLAN

APPROVED
 For Structural Adequacy Only

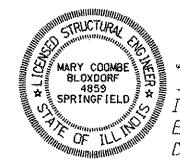
Ralph E. Anderson
 Engineer of Bridges & Structures



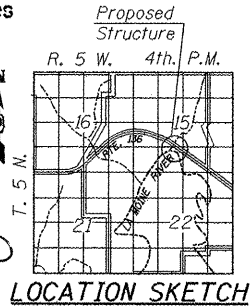
PROFILE GRADE

STA. 1293+50.00 TO 1297+00.00
 BUILT 20__ BY
 STATE OF ILLINOIS
 FAP ROUTE 315 SEC. 34-5(5B)
 STR. NO. 034-2521

NAME PLATE
 See Std. 515001



Mary Coombe Bloxdorf
 ILLINOIS STRUCTURAL NO. 4839
 EXPIRES: 11/30/06
 DATE: 5-3-06



LOCATION SKETCH

ILLINOIS DEPARTMENT OF TRANSPORTATION	
SHEET TITLE GENERAL PLAN & ELEVATION	
PROJECT FAP ROUTE 315 (IL 336/US 136) SECTION 34-5(5B) HANCOCK COUNTY STA. 1293+50.00(R) TO STA. 1297+00.00(R) STRUCTURE NUMBER 034-2521	PROJECT NO. 02076-R SCALE DATE 12/22/05 DRAWN BY TFG CHECKED BY BD/MCB DRAWING NO.
COOMBE-BLOXDORF P.C. Engineers / Land Surveyors Springfield, Illinois Design Firm License No. 184-002703	
1	
OF 18 SHTS	

PILE SCHEDULE

Soldier Pile No.	Size	Station	Offset	Top Pile Elevation	Bottom Pile Elevation	Pile Length	No. Studs Per Pile
1	W24x192	1293+55.08	30.17	538.30	485.80	52.50	6
2	W24x192	1293+63.20	30.19	538.35	485.85	52.50	8
3	W24x192	1293+71.33	30.15	538.40	485.90	52.50	8
4	W24x192	1293+79.45	30.10	538.45	486.20	52.25	10
5	W24x192	1293+87.58	30.06	538.50	488.00	50.50	14
6	W24x192	1293+93.67	30.08	538.55	489.55	49.00	16
7	W24x192	1293+99.76	30.09	538.59	491.59	47.00	18
8	W24x192	1294+05.86	30.08	538.63	493.13	45.50	22
9	W24x192	1294+11.95	30.05	538.67	495.17	43.50	24
10	W24x192	1294+17.54	30.04	538.71	496.46	42.25	26
11	W24x192	1294+23.12	30.07	538.75	496.75	42.00	28
12	W24x192	1294+28.71	30.09	538.79	497.54	41.25	30
13	W24x192	1294+34.29	30.09	538.83	498.58	40.25	32
14	W24x192	1294+39.88	30.07	538.87	498.87	40.00	34
15	W24x192	1294+45.47	30.04	538.92	500.42	38.50	36
16	W24x192	1294+51.05	30.05	538.96	501.96	37.00	36
17	W24x192	1294+56.64	30.08	539.00	503.00	36.00	38
18	W24x192	1294+62.22	30.09	539.05	504.55	34.50	38
19	W24x192	1294+67.81	30.09	539.09	503.09	36.00	40
20	W24x192	1294+73.39	30.07	539.14	502.14	37.00	42
21	W24x192	1294+78.98	30.03	539.18	501.93	37.25	42
22	W24x192	1294+84.57	30.11	539.23	506.23	33.00	36
23	W24x176	1294+90.15	30.13	539.27	507.27	32.00	34
24	W24x162	1294+96.25	30.14	539.33	508.33	31.00	34
25	W24x146	1295+02.34	30.13	539.38	509.38	30.00	32
26	W24x131	1295+08.43	30.16	539.43	510.93	28.50	28
27	W24x131	1295+16.56	30.16	539.49	513.99	25.50	26
28	W24x104	1295+24.68	30.21	539.55	516.55	23.00	24
29	W24x84	1295+32.81	30.21	539.62	518.62	21.00	20
30	W24x68	1295+40.93	30.19	539.68	521.18	18.50	18
31	W21x62	1295+49.06	30.30	539.74	522.74	17.00	16
32	W21x62	1295+57.18	30.33	539.79	523.04	16.75	16
33	W21x62	1295+65.31	30.33	539.84	523.59	16.25	14
34	W21x62	1295+73.43	30.30	539.89	523.89	16.00	14
35	W21x62	1295+81.56	30.34	539.94	524.69	15.25	12
36	W21x62	1295+89.68	30.37	539.99	524.99	15.00	12
37	W21x62	1295+97.80	30.37	540.03	526.03	14.00	10
38	W21x62	1296+05.87	30.33	540.08	526.58	13.50	8
39	W16x36	1296+13.87	30.57	540.13	528.13	12.00	4
40	W16x36	1296+21.87	30.65	540.18	528.93	11.25	3
41	W16x36	1296+29.87	30.74	540.23	529.73	10.50	2
42	W16x36	1296+37.87	30.83	540.28	530.28	10.00	2
43	W16x36	1296+45.87	31.35	540.85	532.35	8.50	2
44	W16x36	1296+57.86	31.67	540.97	532.97	8.00	2
45	W16x36	1296+69.86	31.99	541.09	532.84	8.25	2
46	W16x36	1296+81.85	32.42	541.20	532.95	8.25	2
47	W16x36	1296+93.84	32.91	541.31	533.06	8.25	2

SEQUENCE OF CONSTRUCTION

- 1) Drill shaft excavation for Soldier Piles to the elevation shown on the plans and set soldier piles in excavation.
- 2) Place soldier pile encasement concrete to the bottom of facing elevation at each pile location. Place Controlled Low Strength Material (CLSM) to the elevation of the existing ground or top of pile, whichever is lower at the front flange at each pile location.
- 3) Place embankment behind the wall according to Section 205 of the Standard Specifications. Place timber lagging upward as the embankment placement proceeds upward. Timber Lagging should only be placed above the elevation of the bottom of the concrete facing.
- 4) Once the embankment behind the wall is in place to the top of the piles excavation in front of the wall will proceed to the bottom of the facing by installing timber lagging downward.
- 5) Once excavation is complete the cast in place facing shall be installed.

GENERAL NOTES

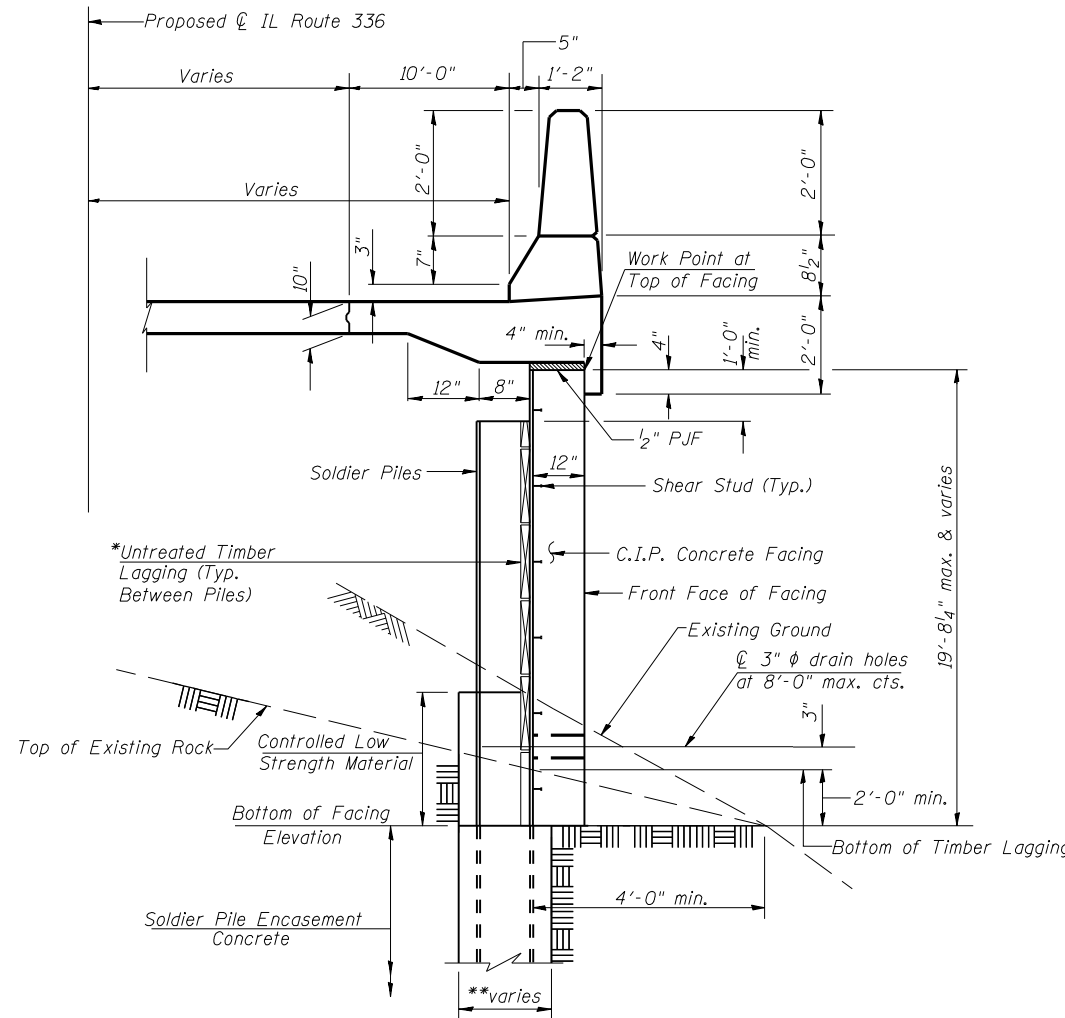
Reinforcement Bars shall conform to the requirements of AASHTO M 31 or M 322 Grade 60.
 Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
 All exposed edges of the cast in place Concrete Wall shall be chamfered 3/4".
 All construction joints shall be bonded.
 The bottom of the concrete facing from Sta. 1294+80 to Sta. 1297+00 was set based on estimated rock elevations. The actual bottom of facing elevations will be determined in the field based on the 2'-0" minimum dimension below rock. The Contractor should notify the Engineer if the bottom of facing elevations differ by more than 9".
 Existing ground at east end of wall shall be graded to top of pile elevations before drilling shafts for soldier piles. Cost is included with drilling and setting soldier piles (In Soil).

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structure Excavation	Cu. Yd.	103
Rock Excavation for Structures	Cu. Yd.	18
Furnishing Soldier Piles (W Section)	Ft	1358.5
Drilling and Setting Soldier Piles (In Soil)	Cu. Ft.	2540
Drilling and Setting Soldier Piles (In Rock)	Cu. Ft.	4637
Concrete Structures	Cu. Yd.	347.3
Geocomposite Wall Drain	Sq. Yd.	262
Reinforcement Bars, Epoxy Coated	Pound	51,610
Untreated Timber Lagging	Sq. Ft.	2699
Name Plates	Each	1
Stud Shear Connectors	Each	923

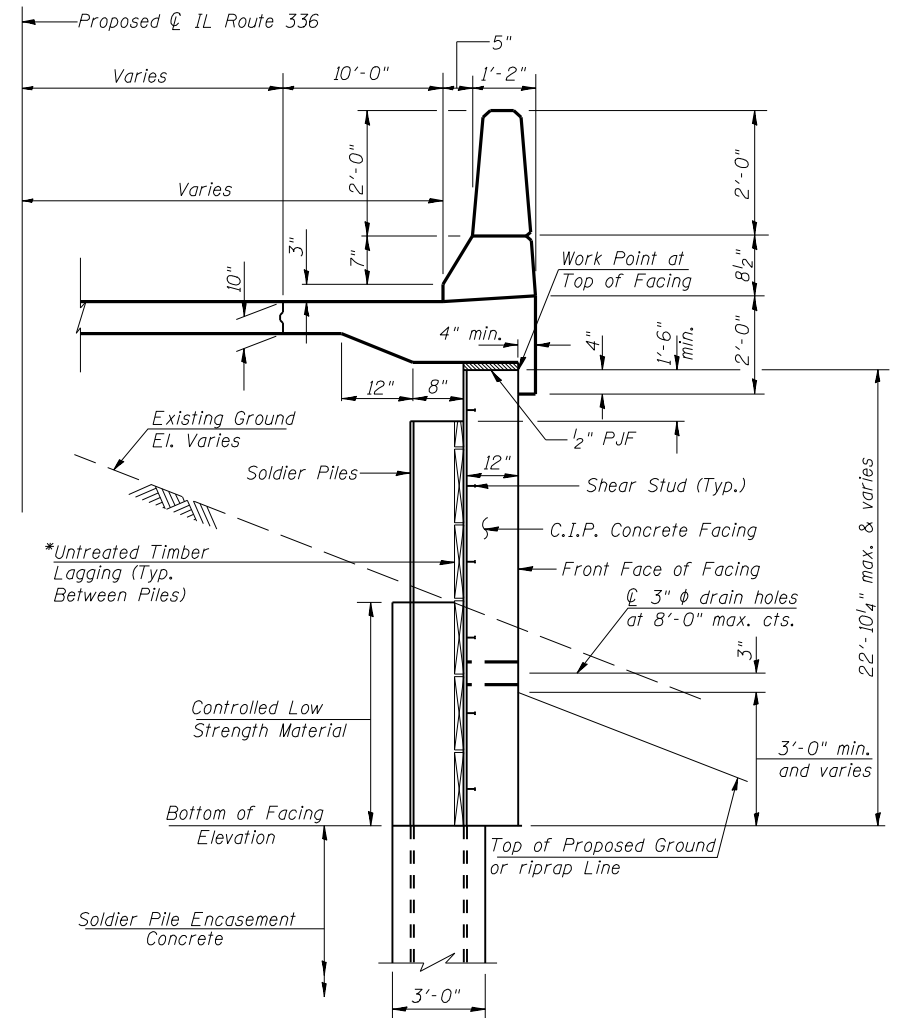
5/14/2006
#FILE:ABBREV#

ILLINOIS DEPARTMENT OF TRANSPORTATION	
SHEET TITLE: GENERAL STRUCTURE NUMBER 037-0069 MATERIAL STRUCTURE NUMBER 037-0069	
PROJECT: FAP ROUTE 315 (IL 336/US 136) SECTION 34-5(5B) HANCOCK COUNTY STA. 1293+50.00(R) TO STA. 1297+00.00(R) STRUCTURE NUMBER 034-2521	PROJECT NO. 02076-R SCALE 9450 DATE 12/22/05 DRAWN BY TFG CHECKED BY BD/MCB DRAWING NO.
COOMBE-BLOXDORF P.C. Engineers/Land Surveyors Springfield, Illinois Design Firm License No. 184-002703	10 OF 18 SHTS



TYPICAL CROSS SECTION
Sta. 1294+80 to Sta. 1297+00

**3'-0" ϕ W24 piles
2'-6" ϕ W21 piles
2'-0" ϕ W16 piles



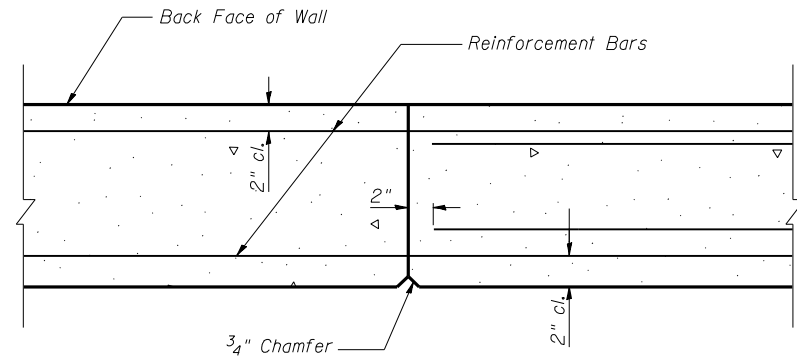
TYPICAL CROSS SECTION
Sta. 1293+50 to Sta. 1294+80

WORK POINTS AND WALL ELEVATIONS

WP No.	CL Rte. IL 336 Station	Offset Rt. (ft.)	Top C.I.P. Facing Elev.	Bott. C.I.P. Facing Elev.	Top/Pile Elev.
1	1293+50.00	32.19	539.77	535.77	538.27
2	1293+82.50	32.19	539.97	533.05	538.47
3	1294+15.00	32.19	540.19	526.10	538.69
4	1294+47.50	32.19	540.43	521.13	538.93
5	1294+80.00	32.19	540.69	517.84/521.00	539.19
6	1295+12.50	32.19	540.96	526.00	539.46
7	1295+45.00	32.19	541.21	531.50	539.71
8	1295+77.50	32.19	541.42	533.50	539.92
9	1296+09.88	32.20	541.60	536.00	540.10
10	1296+41.88	32.56	541.81	539.00	540.81
11	1296+73.87	33.42	542.13	540.00	541.13
12	1297+00.00	34.49	542.37	540.00	541.37

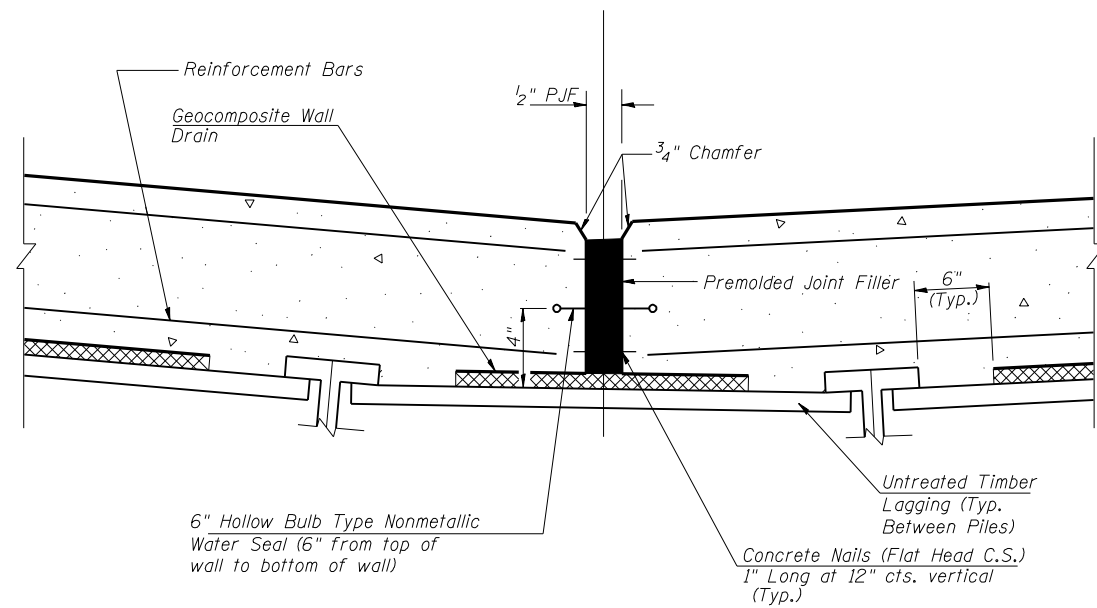
*Timber Lagging to be placed from top of excavation down in excavated areas and from existing ground up in compacted fill areas.

ILLINOIS DEPARTMENT OF TRANSPORTATION	
SHEET TITLE STRUCTURE NUMBER 034-2521 STRUCTURE NUMBER 034-2521	
PROJECT FAP ROUTE 315 (IL 336/US 136) SECTION 34-5(5B) HANCOCK COUNTY STA. 1293+50.00(R) TO STA. 1297+00.00(R) STRUCTURE NUMBER 034-2521	PROJECT NO. 02076-R SCALE 9450 DATE 12/22/05 DRAWN BY TFG CHECKED BY BD/MCB DRAWING NO.
COOMBE-BLOXDORF P.C. Engineers/Land Surveyors Springfield, Illinois Design Firm License No. 184-002703	10 OF 18 SHTS



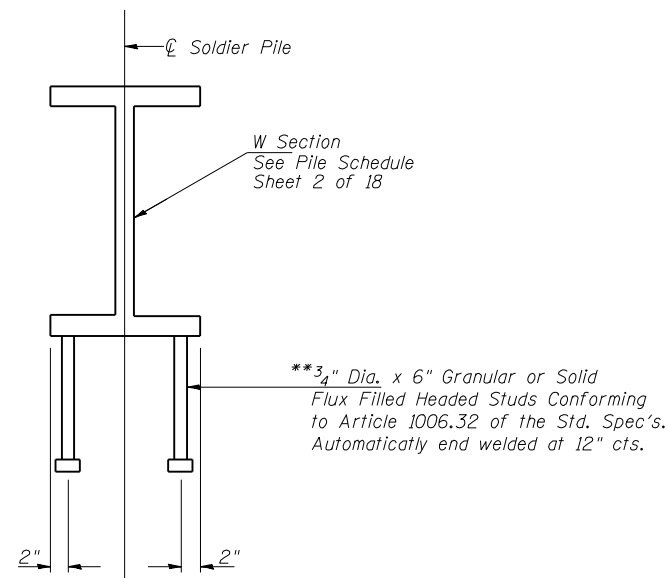
CONSTRUCTION JOINT DETAIL

Reinforcement to pass thru joint

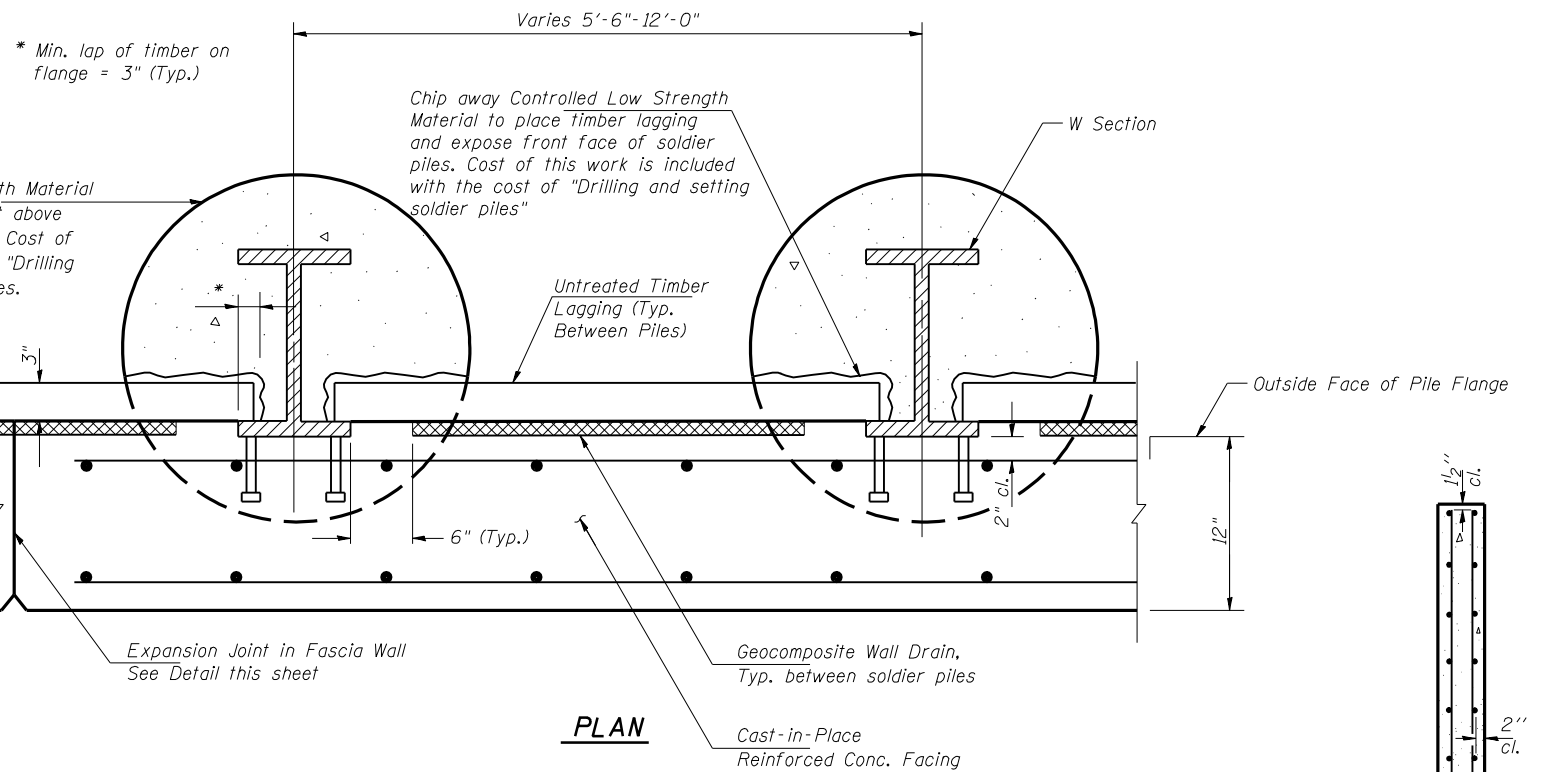


EXPANSION JOINT DETAIL

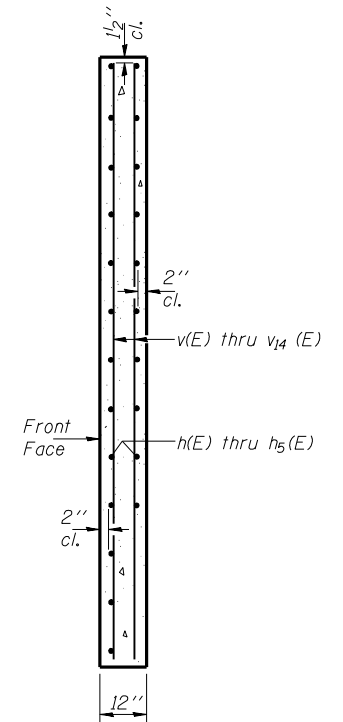
No Reinforcement to pass thru joint



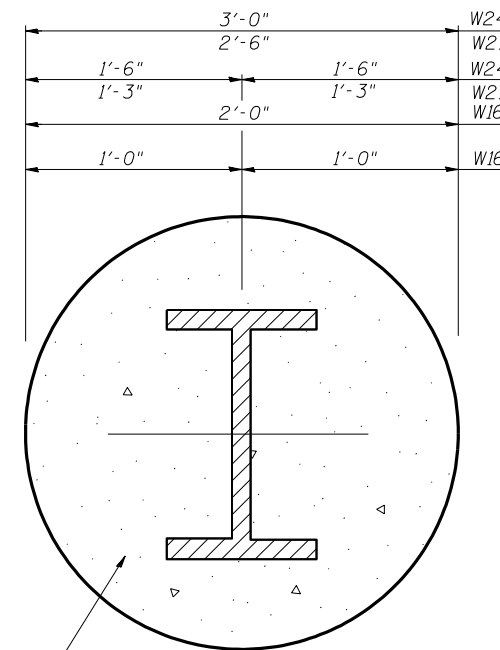
SOLDIER PILE DETAIL



PLAN



SECTION THRU FACING



SECTION THRU SOLDIER PILE

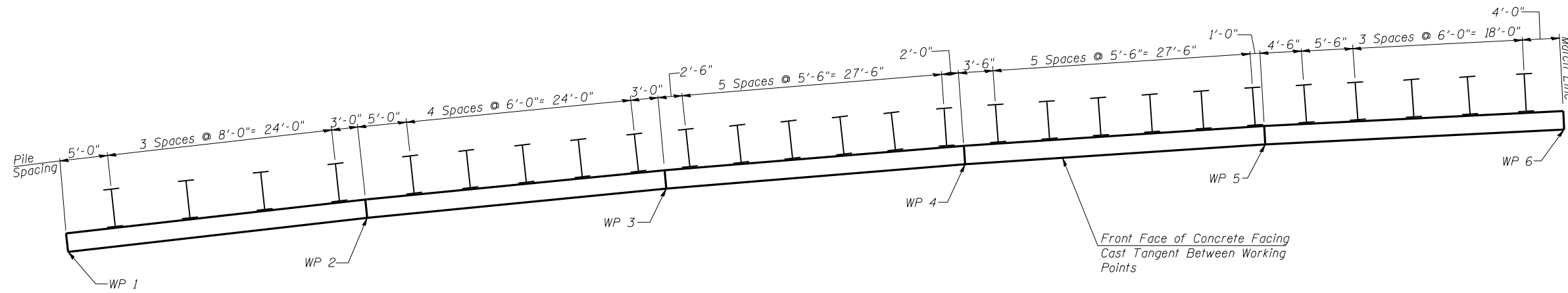
Typical at Soldier Piles

Class SI Concrete below bott. of wall facing
CLSM above bottom of wall facing
Cost included with "Drilling and Setting Soldier Piles"

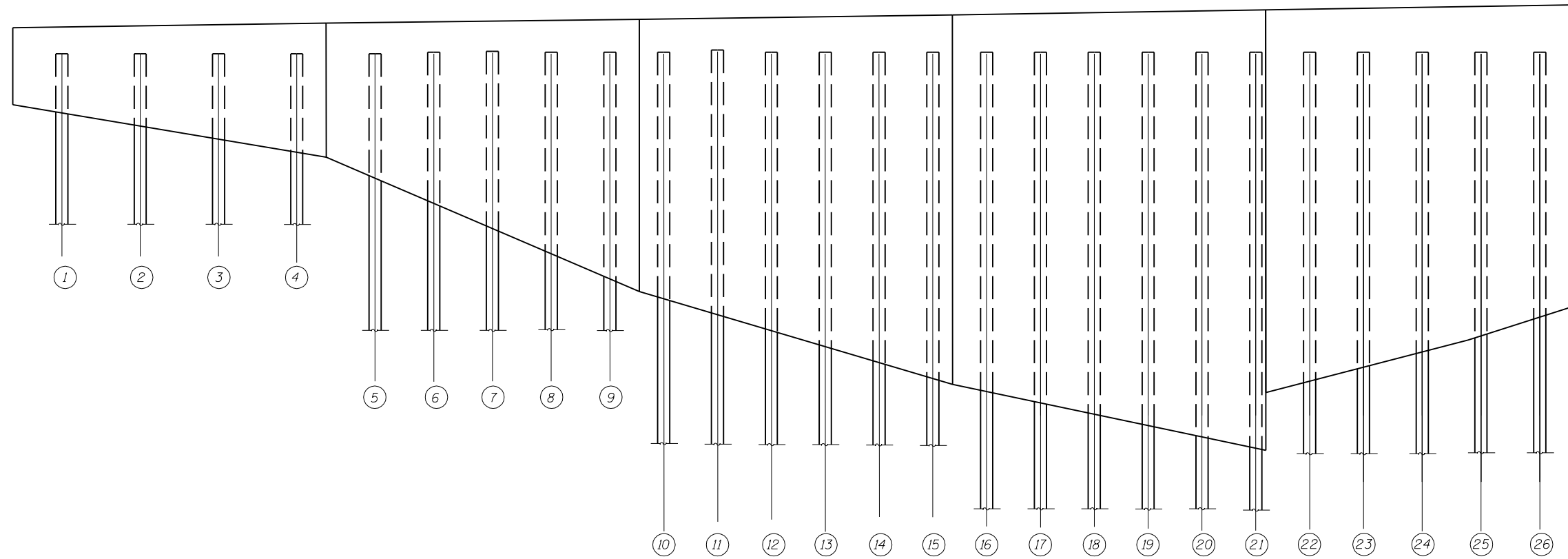
**2 per row as shown for W24 & W21 piles
1 per row at center of pile for W16 piles.

ILLINOIS DEPARTMENT OF TRANSPORTATION			
SHEET TITLE RETAINING WALL DETAILS			
PROJECT FAP ROUTE 315 (IL 336/US 136) SECTION 34-5(5B) HANCOCK COUNTY STA. 1293+50.00(R) TO STA. 1297+00.00(R) STRUCTURE NUMBER 034-2521	PROJECT NO. 02076-R	SCALE DATE 12/22/05	DRAWN BY TFG
COOMBE-BLOXDORF P.C. Engineers / Land Surveyors Springfield, Illinois Design Firm License No. 184-002708		CHECKED BY BD/MCB	DRAWING NO. 4
			OF 18 SHTS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 5 18 SHEETS
315	34-5(5B)	HANCOCK	612	253	
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT- Contract No: 72682					



PLAN
(showing pile spacing)

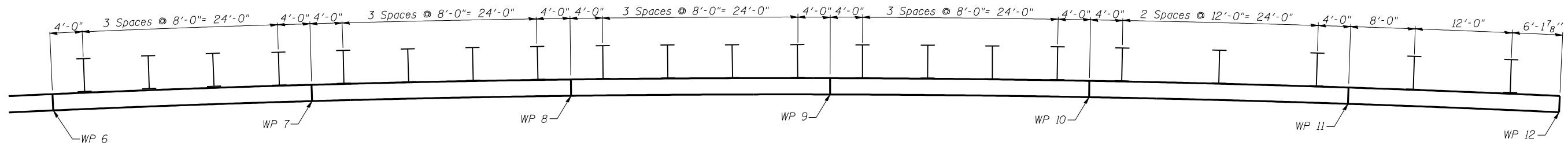


ELEVATION

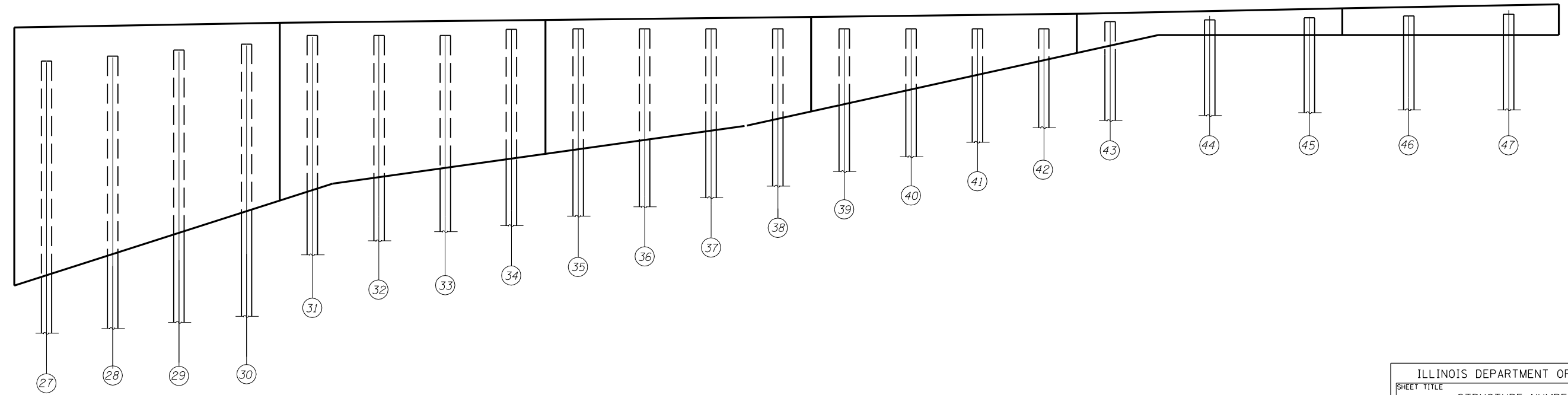
ILLINOIS DEPARTMENT OF TRANSPORTATION		
SHEET TITLE STRUCTURE NUMBER 034-2521 STRUCTURE NUMBER 034-2521		
PROJECT FAP ROUTE 315 (IL 336/US 136) SECTION 34-5(5B) HANCOCK COUNTY STA. 1293+50.00(R) TO STA. 1297+00.00(R) STRUCTURE NUMBER 034-2521	PROJECT NO. 02076-R SCALE 9450 DATE 12/22/05 DRAWN BY TFG CHECKED BY BD/MCB DRAWING NO.	15 OF 18 SHTS
COOMBE-BLOXDORF P.C. Engineers / Land Surveyors Springfield, Illinois Design Firm License No. 184-002703		

5/4/2006
#FILE#BBREV#

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 6 18 SHEETS
315	34-5(5B)	HANCOCK	612	258	
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT- Contract No: 72682					



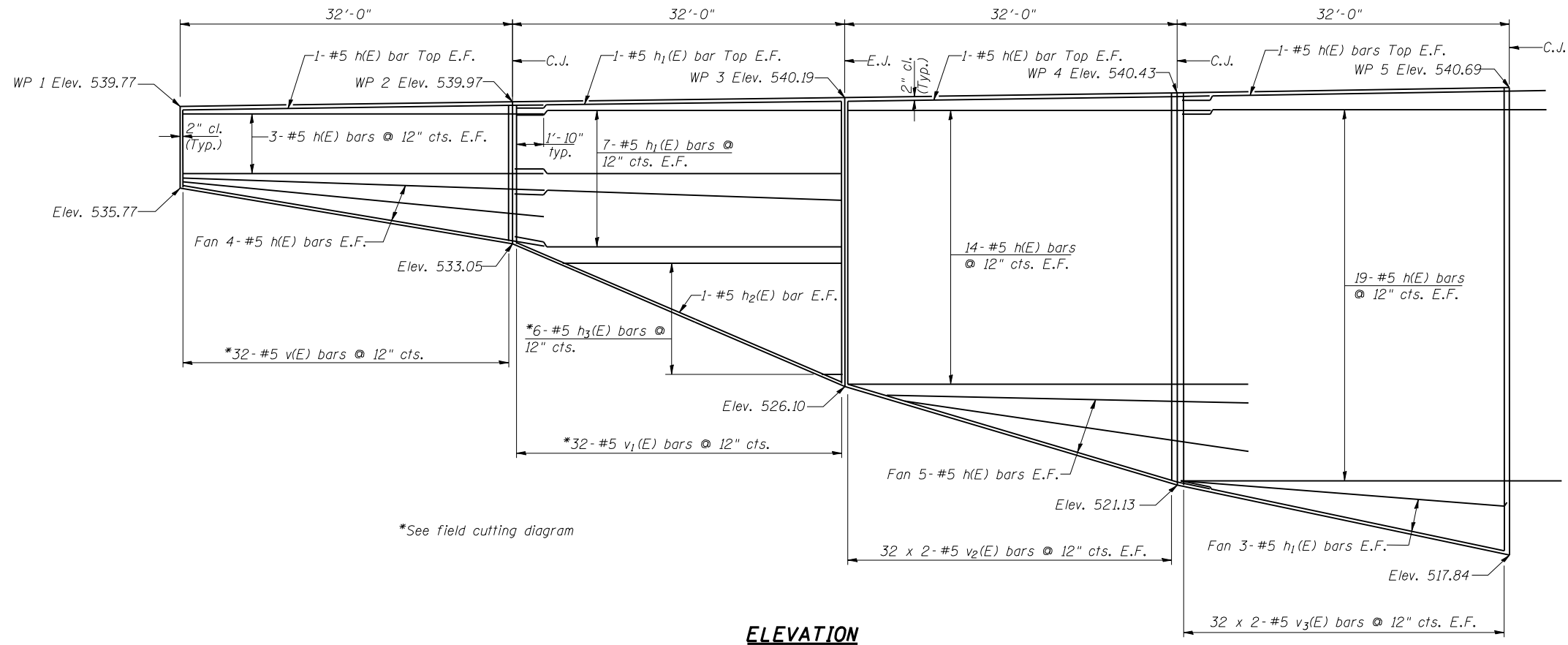
PLAN
(showing pile spacing)



ELEVATION

ILLINOIS DEPARTMENT OF TRANSPORTATION	
SHEET TITLE STRUCTURE NUMBER 057-0069 STRUCTURE NUMBER 034-0069	
PROJECT FAP ROUTE 315 (IL 336/US 136) SECTION 34-5(5B) HANCOCK COUNTY STA. 1293+50.00(R) TO STA. 1297+00.00(R) STRUCTURE NUMBER 034-2521	PROJECT NO. 02076-R SCALE 9450 DATE 12/22/05 DRAWN BY TFG CHECKED BY BD/MCB DRAWING NO.
COOMBE-BLOXDORF P.C. Engineers / Land Surveyors Springfield, Illinois Design Firm License No. 184-002703	OF 18 SHTS

5/4/2006
#7/LE/ABBREV#

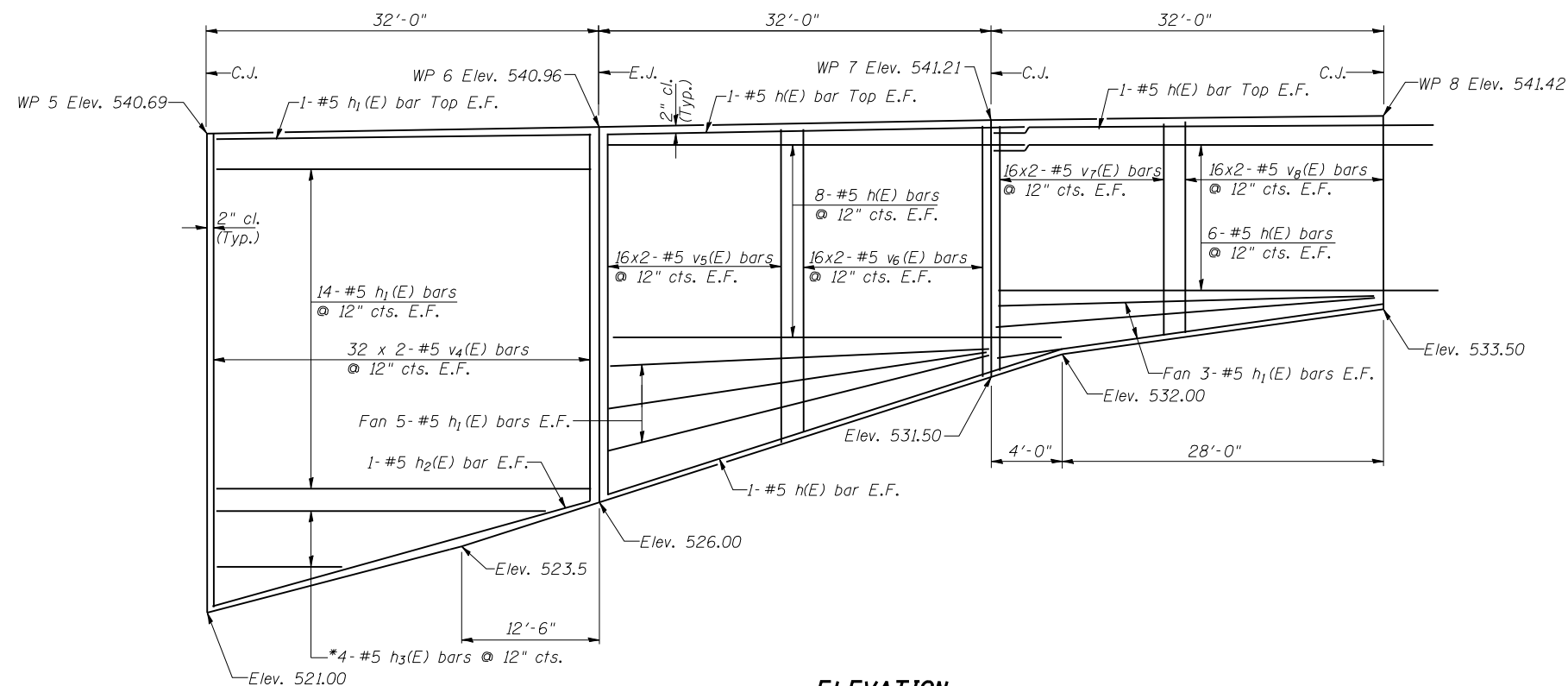


MIN. BAR LAP

#5 bars = 1'-8"

C.J. = Construction Joint
E.J. = Expansion Joint
See sheet 4 of 18 for joint details.

ELEVATION



NOTES

Reinforcement Bars designated (E) shall be epoxy coated.
Bars indicated thus 32 x 2- #5 etc. indicates 32 lines of bars with 2 lengths per line.
Bend bars along top face of wall in field as required.
Facing is tangent between working points.

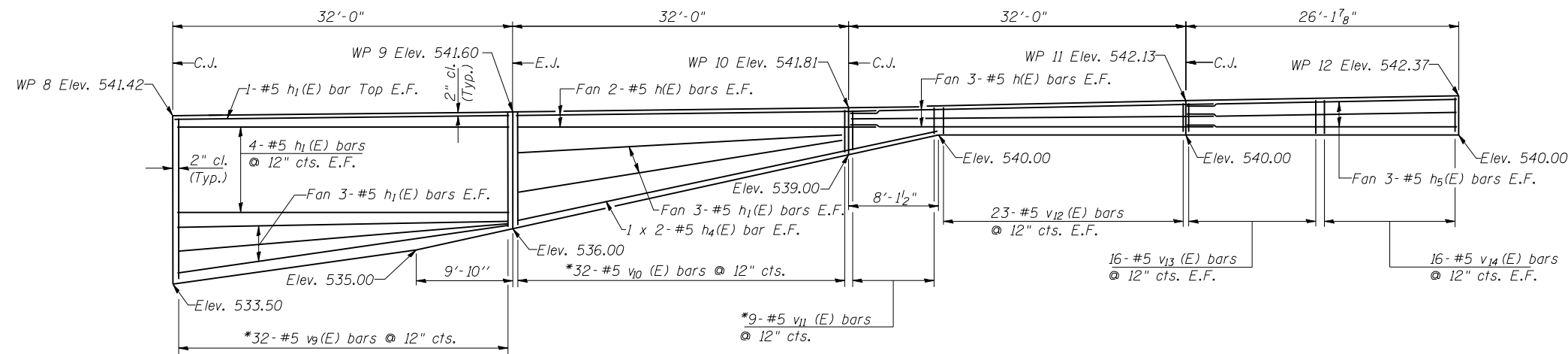
ELEVATION

Work this sheet with sheet 8 of 18

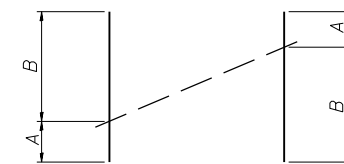
ILLINOIS DEPARTMENT OF TRANSPORTATION	
SHEET TITLE STRUCTURE NUMBER 037-0069 STRUCTURE NUMBER 037-0069	
PROJECT FAP ROUTE 315 (IL 336/US 136) SECTION 34-5(5B) HANCOCK COUNTY STA. 1293+50.00(R) TO STA. 1297+00.00(R) STRUCTURE NUMBER 034-2521	PROJECT NO. 02076-R SCALE 9450 DATE 12/22/05 DRAWN BY TFG CHECKED BY BD/MCB DRAWING NO. 10
COOMBE-BLOXDORF P.C. Engineers / Land Surveyors Springfield, Illinois Design Firm License No. 184-002703	OF 18 SHTS

BILL OF MATERIAL

Bar	No.	Size	Length (ft)	Shape
h(E)	140	#5	33'-8"	=====
h ₁ (E)	90	#5	31'-8"	=====
h ₂ (E)	2	#5	32'-5"	=====
h ₃ (E)	10	#5	31'-2"	=====
h ₄ (E)	4	#5	20'-11"	=====
h ₅ (E)	6	#5	25'-9"	=====
v(E)	32	#5	10'-2"	=====
v ₁ (E)	32	#5	20'-2"	=====
v ₂ (E)	128	#5	10'-4"	=====
v ₃ (E)	128	#5	12'-2"	=====
v ₄ (E)	128	#5	10'-6"	=====
v ₅ (E)	64	#5	8'-2"	=====
v ₆ (E)	64	#5	6'-10"	=====
v ₇ (E)	64	#5	5'-7"	=====
v ₈ (E)	64	#5	5'-1"	=====
v ₉ (E)	32	#5	12'-10"	=====
v ₁₀ (E)	32	#5	7'-7"	=====
v ₁₁ (E)	9	#5	3'-11"	=====
v ₁₂ (E)	46	#5	1'-7"	=====
v ₁₃ (E)	32	#5	1'-9"	=====
v ₁₄ (E)	32	#5	1'-11"	=====
Concrete Structures			Cu. Yd.	129.0
Reinforcement Bars Epoxy Coated			Pound	16,580
Structure Excavation			Cu. Yd.	103
Rock Excavation For Structures			Cu. Yd.	18



ELEVATION



***FIELD CUTTING DIAGRAM**

Order bars full length. Cut as shown and use remainder in opposite face.

BAR	A (ft)	B (ft)
h ₃ (E)	4'-2"	27'-0"
v(E)	3'-8"	6'-6"
v ₁ (E)	6'-6"	13'-8"
v ₉ (E)	5'-3"	7'-7"
v ₁₀ (E)	2'-5"	5'-2"
v ₁₁ (E)	1'-7"	2'-4"

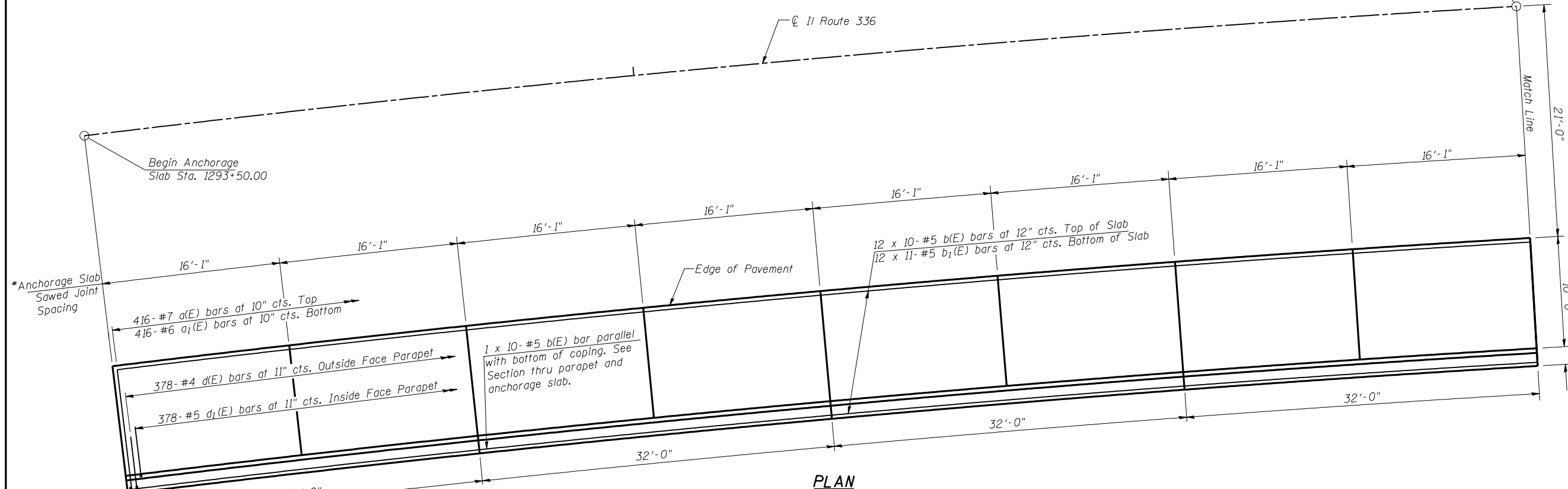
Work this sheet with sheet 7 of 18

ILLINOIS DEPARTMENT OF TRANSPORTATION		
SHEET TITLE STRUCTURE NUMBER 037-0069 STRUCTURE NUMBER 037-0069		
PROJECT FAP ROUTE 315 (IL 336/US 136) SECTION 34-5(5B) HANCOCK COUNTY STA. 1293+50.00(R) TO STA. 1297+00.00(R) STRUCTURE NUMBER 034-2521	PROJECT NO. 02076-R SCALE 9450 DATE 12/22/05 DRAWN BY TFG CHECKED BY BD/MCB DRAWING NO.	COOMBE-BLOXDORF P.C. Engineers / Land Surveyors Springfield, Illinois Design Firm License No. 184-002703
		18 OF 18 SHTS

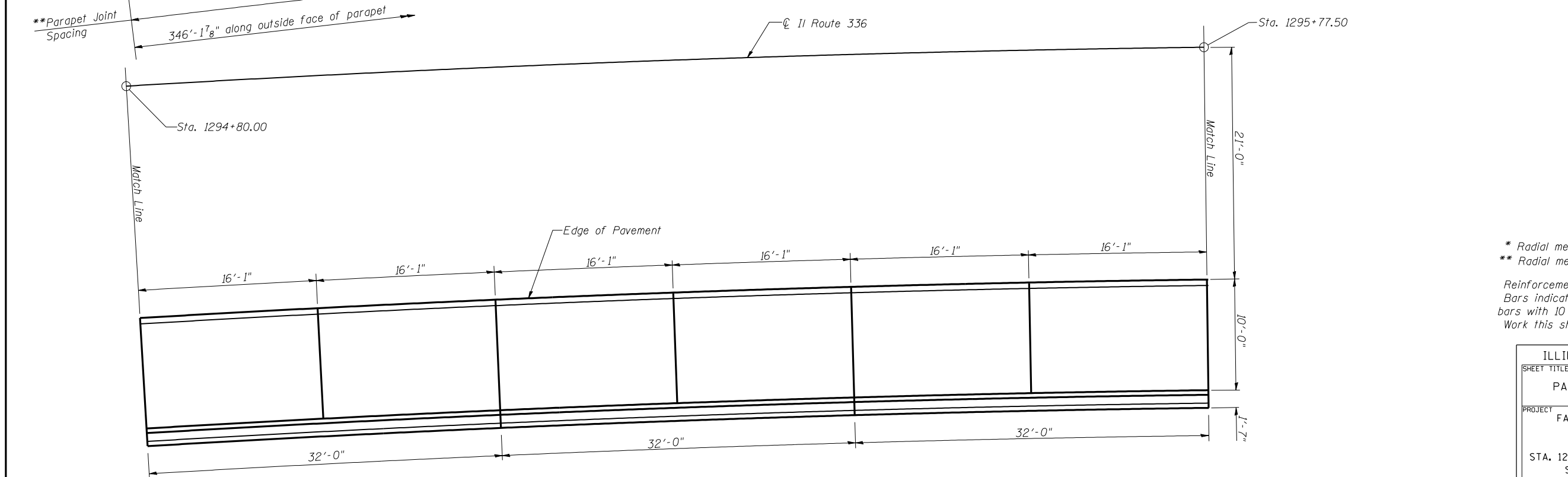
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 9 18 SHEETS
315	34-5(5B)	HANCOCK	612	257	
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT-					

Contract No: 72682

Sta. 1294+80.00



PLAN



PLAN

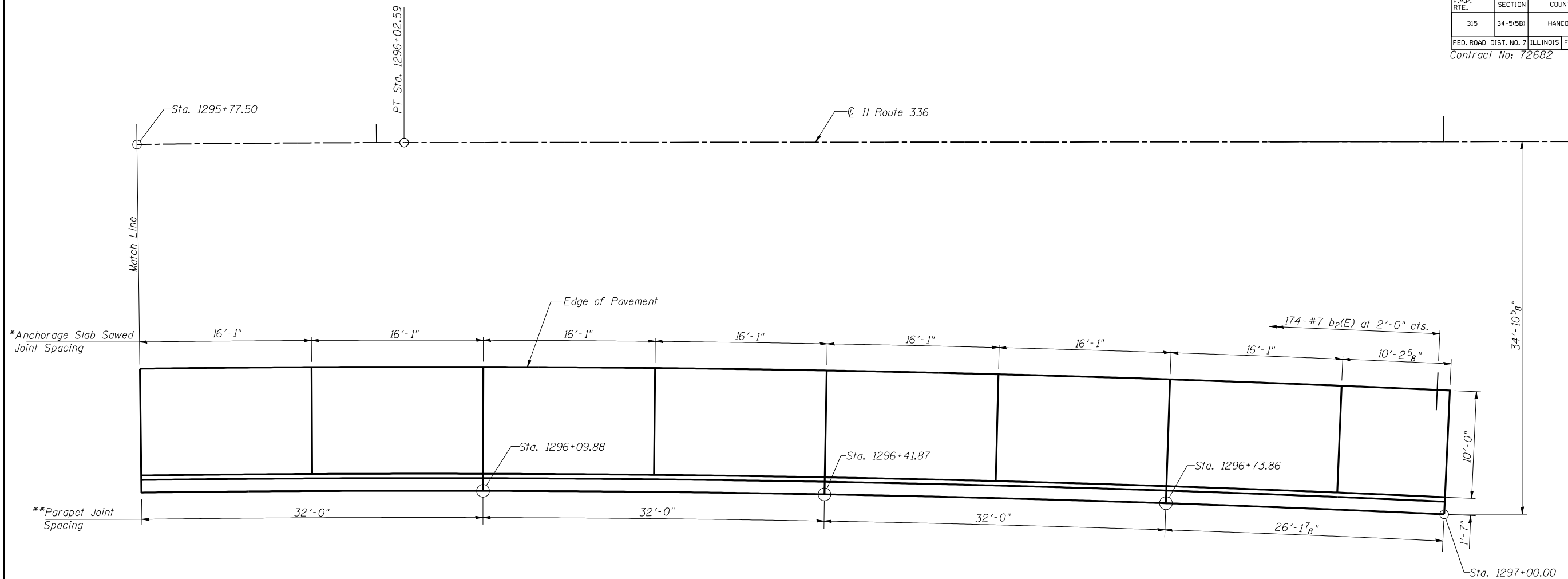


MIN. BAR LAP
#5 bars = 1'-8"

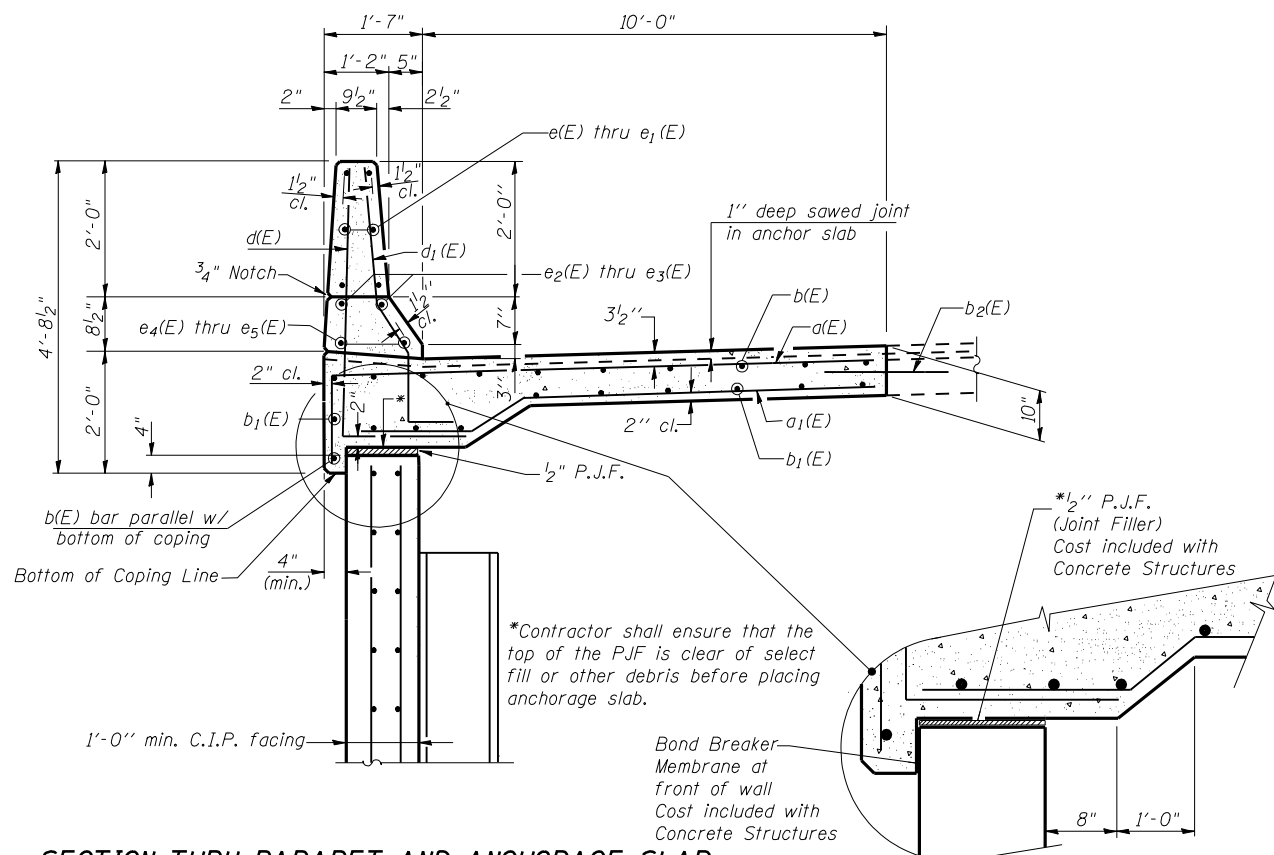
* Radial measured along edge of pavement
 ** Radial measured along outside face of parapet
 Reinforcement Bars designated (E) shall be epoxy coated.
 Bars indicated thus 12 x 10 #5 etc. indicates 12 lines of bars with 10 lengths per line.
 Work this sheet with sheets 10 and 11 of 18.

ILLINOIS DEPARTMENT OF TRANSPORTATION	
STRUCTURE NUMBER 037-0069 PARAPET AND ANCHORAGE SLAB DETAILS STRUCTURE NUMBER 037-0069	
PROJECT FAP ROUTE 315 (IL 336/US 136) SECTION 34-5(5B) HANCOCK COUNTY STA. 1293+50.00(R) TO STA. 1297+00.00(R) STRUCTURE NUMBER 034-2521	PROJECT NO. 02076-R SCALE 9450 DATE 12/22/05 DRAWN BY TFG CHECKED BY BD/MCB DRAWING NO. 10 OF 18 SHTS
COOMBE-BLOXDORF P.C. Engineers / Land Surveyors Springfield, Illinois Design Firm License No. 184-002703	

5/4/2006
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PLAN



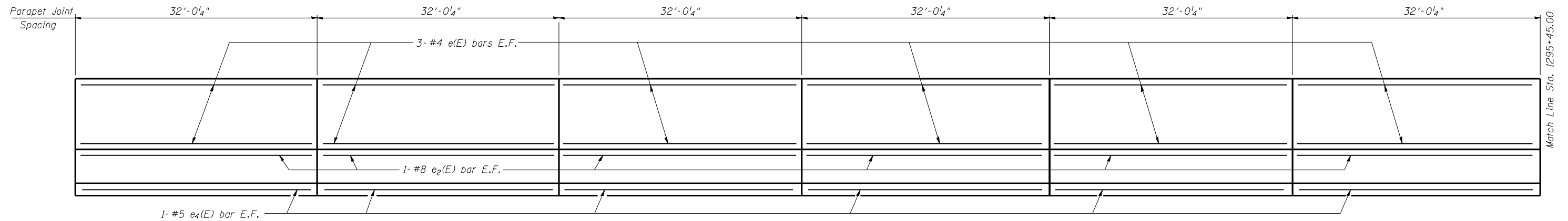
SECTION THRU PARAPET AND ANCHORAGE SLAB

* Radial measured along edge of pavement
 ** Radial measured along outside face of parapet

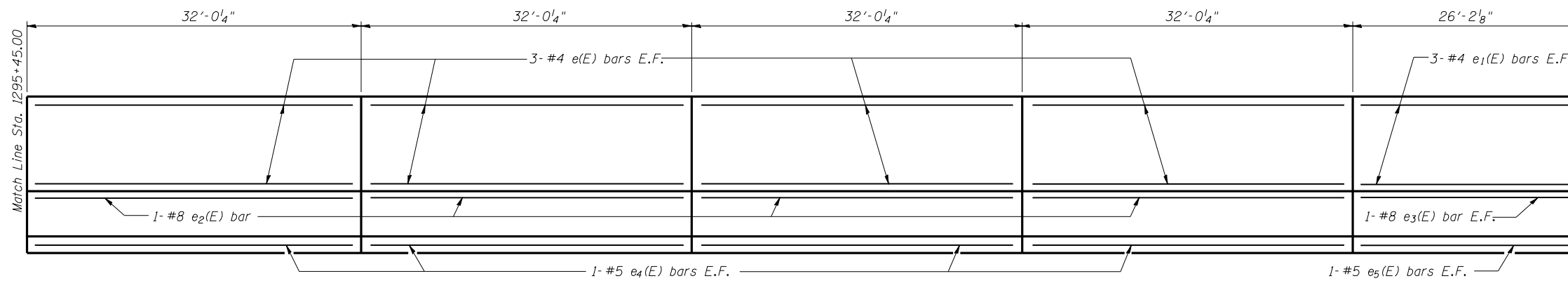
Work this sheet with sheets 9 and 11 of 18.

ILLINOIS DEPARTMENT OF TRANSPORTATION	
SHEET TITLE STRUCTURE NUMBER 034-2521 PARAPET AND ANCHORAGE SLAB	
PROJECT FAP ROUTE 315 (IL 336/US 136) SECTION 34-5(5B) HANCOCK COUNTY STA. 1293+50.00(R) TO STA. 1297+00.00(R) STRUCTURE NUMBER 034-2521	PROJECT NO. 02076-R SCALE 9450 DATE 12/22/05 DRAWN BY TFG CHECKED BY BD/MCB DRAWING NO. 10
COOMBE-BLOXDORF P.C. Engineers/Land Surveyors Springfield, Illinois Design Firm License No. 184-002703	
OF 18 SHTS	

5/4/2006
#FILE/ABBREV#



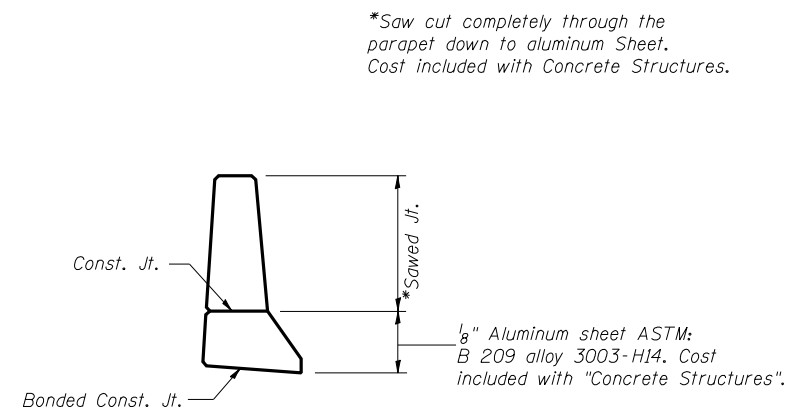
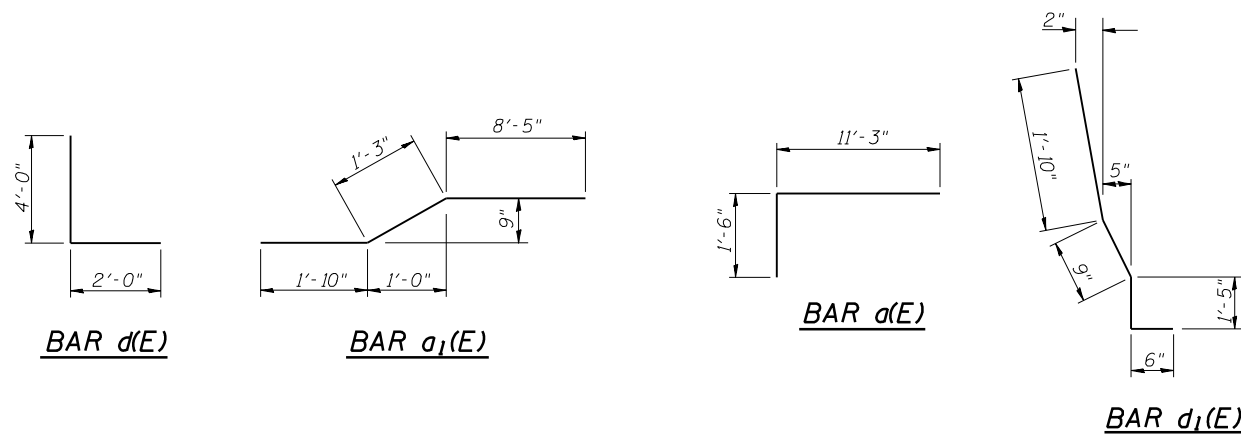
ELEVATION OF PARAPET
(Dimensions Along Inside Face) (Looking North)



ELEVATION OF PARAPET
(Dimensions Along Inside Face) (Looking North)

BILL OF MATERIAL

Bar	No.	Size	Length (ft)	Shape
d(E)	416	#7	12'-9"	
a1(E)	416	#6	11'-6"	
b(E)	130	#5	33'-6"	
b1(E)	132	#5	33'-0"	
b2(E)	174	#7	2'-0"	
d(E)	378	#4	6'-0"	
d1(E)	378	#5	4'-6"	
e(E)	60	#4	31'-8"	
e1(E)	6	#4	25'-9"	
e2(E)	20	#8	31'-8"	
e3(E)	2	#8	25'-9"	
e4(E)	20	#5	31'-8"	
e5(E)	2	#5	25'-9"	
Concrete Structures			Cu. Yd.	218.2
Reinforcement Bars, Epoxy Coated			Pound	35,030



PARAPET JOINT DETAIL

Work this sheet with sheets 9 and 10 of 18.

ILLINOIS DEPARTMENT OF TRANSPORTATION	
SHEET TITLE: STRUCTURE NUMBER 037-0069 PARAPET HANCOCK COUNTY STRUCTURE NUMBER 034-2521	
PROJECT: FAP ROUTE 315 (IL 336/US 136) SECTION 34-5(5B) HANCOCK COUNTY STA. 1293+50.00(R) TO STA. 1297+00.00(R) STRUCTURE NUMBER 034-2521	PROJECT NO. 02076-R SCALE 9450 DATE 12/22/05 DRAWN BY TFG CHECKED BY BD/MCB DRAWING NO.
COOMBE-BLOXDORF P.C. Engineers / Land Surveyors Springfield, Illinois Design Firm License No. 184-002703	10 OF 18 SHTS



SOIL BORING LOG

Page 1 of 1

Date 12/22/05

ROUTE FAP 302 (IL 336) DESCRIPTION IL 336 Retaining Wall at the Lemont River LOGGED BY M. Tuppen

SECTION 34-5 LOCATION SW 14, SEC. 16, TWP. 6 N, RNG. 6 W, 4 PM

COUNTY Hancock DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO.	Station	DESCRIPTION	D	B	U	M	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.	Flow Recorder	Up on Completion	Other	Ground Surface Elev.
034-2014	1296+25						518.0 ft	No Data ft					
Brown and Grey to Brown and Dark Grey Mould CLAY LOAM (FD) w/Cobbles and Strids													
			1										
			1	0.5	20								
			2	B									
	1297.70	Dark Grey Mould SILTY CLAY (Disturbed)	1										
			3	1.8	27								
			4	B									
		Brownish Grey	1										
			2	0.8	28								
			2	B									
		Brown and Grey	1										
			1	0.5	41								
			2	B									
			1										
			2	0.7	34								
			3	B									
	1298.70	Grey and Tan V. Mould LOAM	0										
			1	0.2	30								
			1	B									
		Brown and Grey V. Broken Weathered Crystalline LIMESTONE Fine Water	05										
			74										
			26										
			6"										
	1299.70	Grey Crystalline LIMESTONE Boring Completed	200										
			6"										

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (D-Blow, S-Show, P-Penetrometer, E-Estimate)
Abbreviations W.O.H. - Sampler Advanced by Weight of Hammer, W.O.P. - Advanced by Weight of Pipe, B.S. - Before Sealing
The SPT (N) value is the sum of the last two blow values in each sampling zone (ASTM D 1586, from 137 (Rev. 8-99))



SOIL BORING LOG

Page 1 of 1

Date 12/22/05

ROUTE FAP 302 (IL 336) DESCRIPTION IL 336 Retaining Wall at the Lemont River LOGGED BY M. Tuppen

SECTION 34-5 LOCATION SW 14, SEC. 16, TWP. 6 N, RNG. 6 W, 4 PM

COUNTY Hancock DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO.	Station	DESCRIPTION	D	B	U	M	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.	Flow Recorder	Up on Completion	Other	Ground Surface Elev.
034-2014	1296+25						518.0 ft	No Data ft					
Dark Grey V. Mould SILTY CLAY LOAM (FD)													
			0										
			1	0.5	26								
			1	B									
			1										
			1	0.5	27								
			1	B									
		Grey Mould SILTY CLAY LOAM (Disturbed)	1										
			1	0.5	27								
			1	B									
		Brown V. Mould CLAY LOAM w/ Broken Limestone	1										
			26	0.4	29								
			26	B									
		Auger Refused at 2.5' - Begin Rock Core											
		Blockade continued with rock cutting.											

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (D-Blow, S-Show, P-Penetrometer, E-Estimate)
Abbreviations W.O.H. - Sampler Advanced by Weight of Hammer, W.O.P. - Advanced by Weight of Pipe, B.S. - Before Sealing
The SPT (N) value is the sum of the last two blow values in each sampling zone (ASTM D 1586, from 137 (Rev. 8-99))



ROCK CORE LOG

Page 1 of 1

Date 12/22/05

ROUTE FAP 302 (IL 336) DESCRIPTION IL 336 Retaining Wall at the Lemont River LOGGED BY M. Tuppen

SECTION 34-5 LOCATION SW 14, SEC. 16, TWP. 6 N, RNG. 6 W, 4 PM

COUNTY Hancock CORING METHOD Christensen NCB Wireline w/Water

STRUCT. NO.	Station	DESCRIPTION	Core Diameter	Top of Rock Elev.	Depth Core Elev.	R	R	C	O	Q	T	R	S
034-2014	1296+25		1.83 in	518.00 ft	518.50 ft								
Grey Poor to Moderately Indurated Fossiliferous LIMESTONE w/interbedded Clayey SHALE seams													
						1	21	20					
						2	100	79					700
						3	100	90					770
						4	100	100					770
													1000

Color pictures of the cores On Request
Cores will be stored for examination until 5 Years after Construction
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2888)

IBR, Item 138 (Rev. 8-99)

ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET TITLE
STRUCTURE NUMBER 037-0069
DRAWING NUMBER 037-0069

PROJECT
FAP ROUTE 315 (IL 336/US 136)
SECTION 34-5(5B)
HANCOCK COUNTY
STA. 1293+50.00(R) TO STA. 1297+00.00(R)
STRUCTURE NUMBER 034-2521

PROJECT NO. 02076-R
SCALE 9450
DATE 12/22/05
DRAWN BY TFG
CHECKED BY BD/MCB
DRAWING NO. 10
OF 18 SHTS

COOMBE-BLOXDORF P.C.
Engineers / Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002703

Illinois Department of Transportation
SOIL BORING LOG
Page 1 of 1
Date 1/29/04

ROUTE FAP 302 (IL 336) DESCRIPTION IL 336 Retaining Wall at the Lemons River LOGGED BY M. Tuppen

SECTION 34-5 LOCATION SW 1/4, SEC. 16, TWP. 5 N, RNG. 6 W, 4 PM

COUNTY Hancock DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO. 034-2014
Station 1296+25

BORING NO. 58A
Station 1294+50
Offset 10.00 L.R.
Ground Surface Elev. 542.0 ft

D	B	U	M	Surface Water Elev.	510.0 ft
E	L	C	O	Stream Bed Elev.	No Data ft
F	O	S	I	Groundwater Elev.:	
T	W	S	S	<input type="checkbox"/> First Recorder	No Recorder ft
H	S	Q	T	<input type="checkbox"/> Upon Completion	Cased ft
				<input type="checkbox"/> After	Flugged ft

Grey and Brown Weathered Dry Clayey SHALE w/interbedded LIMESTONE Sums

Auger Refused at 6.5 - Begin Rock Core

Borehole continued with rock coring.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (S-Deq, S-Shear, P-Pneumometer, E-Reluctant)
Abbreviations W.O.H - Sampler Advanced by Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Sealing
The SPT (N) value is the sum of the last two blow values in each sampling zone (ASTM D-1586, from 137 (Rev. 8-98))

Illinois Department of Transportation
ROCK CORE LOG
Page 1 of 1
Date 1/29/04

ROUTE FAP 302 (IL 336) DESCRIPTION IL 336 Retaining Wall at the Lemons River LOGGED BY M. Tuppen

SECTION 34-5 LOCATION SW 1/4, SEC. 16, TWP. 5 N, RNG. 6 W, 4 PM

COUNTY Hancock CORING METHOD Christman NEE Wireline w/Water

STRUCT. NO. 034-2014
Station 1296+25

BORING NO. 58A
Station 1294+50
Offset 10.00 L.R.
Ground Surface Elev. 542.0 ft

ROCK	UCS	UCS	UCS	UCS	UCS
(ft)	(ft)	(ft)	(ft)	(ft)	(ft)

Grey Fine-grained Well Indurated Crystalline LIMESTONE w/interbedded Olive Grey 1'-4" Bands of Poorly Indurated SHALE and Argillaceous LIMESTONE

Color pictures of the cores _____ On Request
Cores will be stored for examination until _____ 5 Years after Construction
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-1586)

BSS, form 136 (Rev. 8-98)

Illinois Department of Transportation
SOIL BORING LOG
Page 1 of 1
Date 1/29/04

ROUTE FAP 302 (IL 336) DESCRIPTION IL 336 Retaining Wall at the Lemons River LOGGED BY M. Tuppen

SECTION 34-5 LOCATION SW 1/4, SEC. 16, TWP. 5 N, RNG. 6 W, 4 PM

COUNTY Hancock DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO. 034-2014
Station 1296+25

BORING NO. 58
Station 1294+50
Offset 10.00 L.R.
Ground Surface Elev. 542.0 ft

D	B	U	M	Surface Water Elev.	510.0 ft
E	L	C	O	Stream Bed Elev.	No Data ft
F	O	S	I	Groundwater Elev.:	
T	W	S	S	<input type="checkbox"/> First Recorder	No Recorder ft
H	S	Q	T	<input type="checkbox"/> Upon Completion	Cased ft
				<input type="checkbox"/> After	Flugged ft

Light Yellowish Brown Dry Weathered Silty SHALE w/interbedded LIMESTONE Sums

Auger Refused at 4' - Begin Rock Core

Borehole continued with rock coring.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (S-Deq, S-Shear, P-Pneumometer, E-Reluctant)
Abbreviations W.O.H - Sampler Advanced by Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Sealing
The SPT (N) value is the sum of the last two blow values in each sampling zone (ASTM D-1586, from 137 (Rev. 8-98))

ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET TITLE
STRUCTURE NUMBER 037-0069
DRAWING NUMBER 037-0069

PROJECT
FAP ROUTE 315 (IL 336/US 136)
SECTION 34-5(5B)
HANCOCK COUNTY
STA. 1293+50.00(R) TO STA. 1297+00.00(R)
STRUCTURE NUMBER 034-2521

PROJECT NO.
02076-R
SCALE
9450
DATE
12/22/05
DRAWN BY
TFG
CHECKED BY
BD/MCB
DRAWING NO.
10
OF 18 SHTS

COOMBE-BLOXDORF P.C.
Engineers/Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002703



ROCK CORE LOG

Page 1 of 3
Date 1/25/04

ROUTE FAP 302 (IL 336) DESCRIPTION IL 336 Retaining Wall at the Lemona River LOGGED BY M. Tappan

SECTION 34-5 LOCATION SW 1/4, SEC. 16, TWP. 6 N, RNG. 6 W, 4 PM

COUNTY Hancock CORING METHOD Christmas NXE Wireline w/Water

STRUCT. NO. 034-2514 CORING BARREL TYPE & SIZE NXE
Station 1298+25
BOHRING NO. 83 Core Diameter 1.50 in
Station 1298+50 Top of Rock Elev. 540.80 ft
Begin Core Elev. 535.80 ft
Offset 5.00 ft
Ground Surface Elev. 540.8 ft

DEPTH (ft)	ROCK TYPE	CORE TYPE	STRENGTH (psi)
0.00	Brownish Grey V. Broken Crystalline LIMESTONE	81	
0.50	Grey Well Indurated Crystalline LIMESTONE w/Brown Weathered SHALE Stems at 0.5' - 0.7'		
1.00	Greyish Tan V. Weathered Clayey SHALE w/interbedded Argillaceous LIMESTONE Stems		
1.50	Grey Well Indurated Fossiliferous LIMESTONE		
2.00	Tan V. Finely Indurated V. Fractured Argillaceous LIMESTONE	77	
2.50	Famish Grey Fine To Moderately Indurated Argillaceous LIMESTONE (Broken in 1"-2" Pieces)		
3.00	Grey Well Indurated Fossiliferous LIMESTONE w/Argillaceous LIMESTONE and Clayey SHALE Stems	83	
4.00		96	
5.00		90	

Color pictures of the cores On Request
Cores will be stored for examination until 5 Years after Construction
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-398)

HSS, form 138 (Rev. 6-99)



ROCK CORE LOG

Page 2 of 3
Date 1/25/04

ROUTE FAP 302 (IL 336) DESCRIPTION IL 336 Retaining Wall at the Lemona River LOGGED BY M. Tappan

SECTION 34-5 LOCATION SW 1/4, SEC. 16, TWP. 6 N, RNG. 6 W, 4 PM

COUNTY Hancock CORING METHOD Christmas NXE Wireline w/Water

STRUCT. NO. 034-2514 CORING BARREL TYPE & SIZE NXE
Station 1298+25
BOHRING NO. 83 Core Diameter 1.50 in
Station 1298+50 Top of Rock Elev. 540.80 ft
Begin Core Elev. 535.80 ft
Offset 5.00 ft
Ground Surface Elev. 540.8 ft

DEPTH (ft)	ROCK TYPE	CORE TYPE	STRENGTH (psi)
6.00	Grey Well Indurated Fossiliferous LIMESTONE w/Argillaceous LIMESTONE and Clayey SHALE Stems (continued)	86	
7.00		79	
8.00		90	
9.00		61	
10.00		94	

Color pictures of the cores On Request
Cores will be stored for examination until 5 Years after Construction
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-398)

HSS, form 138 (Rev. 6-99)



ROCK CORE LOG

Page 3 of 3
Date 1/25/04

ROUTE FAP 302 (IL 336) DESCRIPTION IL 336 Retaining Wall at the Lemona River LOGGED BY M. Tappan

SECTION 34-5 LOCATION SW 1/4, SEC. 16, TWP. 6 N, RNG. 6 W, 4 PM

COUNTY Hancock CORING METHOD Christmas NXE Wireline w/Water

STRUCT. NO. 034-2514 CORING BARREL TYPE & SIZE NXE
Station 1298+25
BOHRING NO. 83 Core Diameter 1.50 in
Station 1298+50 Top of Rock Elev. 540.80 ft
Begin Core Elev. 535.80 ft
Offset 5.00 ft
Ground Surface Elev. 540.8 ft

DEPTH (ft)	ROCK TYPE	CORE TYPE	STRENGTH (psi)
11.00	Grey Well Indurated Fossiliferous LIMESTONE w/Argillaceous LIMESTONE and Clayey SHALE Stems (continued)	81	
12.00		72	
13.00		82	
14.00		88	
15.00		88	
16.00		88	
17.00		88	
18.00		88	
19.00		88	
20.00		88	
21.00		88	
22.00		88	
23.00		88	
24.00		88	
25.00		88	
26.00		88	
27.00		88	
28.00		88	
29.00		88	
30.00		88	

Color pictures of the cores On Request
Cores will be stored for examination until 5 Years after Construction
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-398)

HSS, form 138 (Rev. 6-99)

ILLINOIS DEPARTMENT OF TRANSPORTATION	
SHEET TITLE STRUCTURE NUMBER 034-2514 STRUCTURE NUMBER 034-2514	
PROJECT FAP ROUTE 315 (IL 336/US 136) SECTION 34-5(5B) HANCOCK COUNTY STA. 1293+50.00(R) TO STA. 1297+00.00(R) STRUCTURE NUMBER 034-2521	PROJECT NO. 02076-R SCALE 9450 DATE 12/22/05 DRAWN BY TFG CHECKED BY BD/MCB DRAWING NO. 10
COOMBE-BLOXDORF P.C. Engineers / Land Surveyors Springfield, Illinois Design Firm License No. 184-002703	
OF 18 SHTS	

Illinois Department of Transportation
Date of Report: 12/20/04
No. 2004-9

SOIL BORING LOG

Page 1 of 1
Date 12/20/04

ROUTE FAP 302 (IL 336) DESCRIPTION IL 336 Retaining Wall at the Lemmon River LOGGED BY M. Tuppen

SECTION 34-5 LOCATION SW 1/4, SEC. 16, TWP. 9 N, RNG. 6 W, 4 PM

COUNTY Hancock DRILLING METHOD HSA HAMMER TYPE 140 # Anvil

STRUCT. NO. <u>034-2014</u>	D	B	U	M	Surface Water Elev.	<u>518.0</u>	ft
Station <u>1296+25</u>	E	L	C	O	Stream Bed Elev.	<u>No Data</u>	ft
	F	O	S	I			
	T	W	S	S	Groundwater Elev.:		
BORING NO. <u>54</u>	H	S	Q	T	<input type="checkbox"/> First Encounter	<u>No Encounter</u>	ft
Station <u>1296+20</u>					<input type="checkbox"/> Upon Completion	<u>Card</u>	ft
Other <u>10.05 ft</u>					<input type="checkbox"/> After	<u>Hrs.</u>	ft
Ground Surface Elev. <u>540.9</u>	(ft)	(#)	(in)	(%)			

Graphical Brown Mould SILTY CLAY (PE) Auger Refused at 1' - Depth Rock Core Remarks continued with rock coring.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (S-Relay, S-Shar, P-Pneumometer, E-Retained)
Abbreviations W.O.H. - Sampler Advanced By Weight of Hammer, W.O.P. - Advanced by Weight of Pipe, B.S. - Before Sealing
The SPT (N) value is the sum of the last two blow values in each sampling zone (ASTM D-1586, from 197 (Rev. 8-99))

Illinois Department of Transportation
Date of Report: 12/20/04
No. 2004-9

ROCK CORE LOG

Page 1 of 1
Date 12/20/04

ROUTE FAP 302 (IL 336) DESCRIPTION IL 336 Retaining Wall at the Lemmon River LOGGED BY M. Tuppen

SECTION 34-5 LOCATION SW 1/4, SEC. 16, TWP. 9 N, RNG. 6 W, 4 PM

COUNTY Hancock CORING METHOD Christmas NCB Wireline w/Water

STRUCT. NO. <u>034-2014</u>	CORING BARREL TYPE & SIZE	NCB	D	C	O	Q	I	R	CORE	S	T
Station <u>1296+25</u>	Core Diameter	<u>1.50</u>	E	O	V	.	M	N			
	Top of Rock Elev.	<u>539.90</u>	F	R	E	D	E	G			
BORING NO. <u>54</u>	Begin Core Elev.	<u>539.90</u>	T	R	E	.	T	H			
Station <u>1296+20</u>			H	Y							
Other <u>10.05 ft</u>			(ft)	(#)	(%)	(%)	(in/ft)	(in)			
Ground Surface Elev. <u>540.9</u>											

Thin and Grey Moderately Indurated Fossiliferous Crystalline LIMESTONE (Very Broken, 1"-8" Pieces) 539.90 1 88 45

Light Brown Poorly Indurated Argillaceous LIMESTONE 539.90

Dark Grey Well Indurated Calcareous SHALE 537.90

Dark Grey to Grey Moderately Indurated Fossiliferous LIMESTONE w/interbedded Argillaceous LIMESTONE and Clayey SHALE Sums 536.90

1 84 89 82

2 100 95 89

3 100 75 84

4 100 85 88

5 100 82 86

Color pictures of the cores On Request
Cores will be stored for examination until 5 Years after Construction
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-3988)

ISS, form 126 (Rev. 8-99)

Illinois Department of Transportation
Date of Report: 12/20/04
No. 2004-9

ROCK CORE LOG

Page 2 of 2
Date 12/20/04

ROUTE FAP 302 (IL 336) DESCRIPTION IL 336 Retaining Wall at the Lemmon River LOGGED BY M. Tuppen

SECTION 34-5 LOCATION SW 1/4, SEC. 16, TWP. 9 N, RNG. 6 W, 4 PM

COUNTY Hancock CORING METHOD Christmas NCB Wireline w/Water

STRUCT. NO. <u>034-2014</u>	CORING BARREL TYPE & SIZE	NCB	D	C	O	Q	I	R	CORE	S	T
Station <u>1296+25</u>	Core Diameter	<u>1.50</u>	E	O	V	.	M	N			
	Top of Rock Elev.	<u>539.90</u>	F	R	E	D	E	G			
BORING NO. <u>54</u>	Begin Core Elev.	<u>539.90</u>	T	R	E	.	T	H			
Station <u>1296+20</u>			H	Y							
Other <u>10.05 ft</u>			(ft)	(#)	(%)	(%)	(in/ft)	(in)			
Ground Surface Elev. <u>540.9</u>											

Dark Grey to Grey Moderately Indurated Fossiliferous LIMESTONE w/interbedded Argillaceous LIMESTONE and Clayey SHALE Sums (continued)

6 100 84 75

7 100 100 84

8 100 85 86

9 100 85 107

10 100 85 88

Color pictures of the cores On Request
Cores will be stored for examination until 5 Years after Construction
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-3988)

ISS, form 126 (Rev. 8-99)

ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET TITLE
STRUCTURE NUMBER 037-0069
DRAWING NUMBER 037-0069

PROJECT FAP ROUTE 315 (IL 336/US 136) SECTION 34-5(5B) HANCOCK COUNTY STA. 1293+50.00(R) TO STA. 1297+00.00(R) STRUCTURE NUMBER 034-2521	PROJECT NO. 02076-R SCALE 9450 DATE 12/22/05 DRAWN BY TFG CHECKED BY BD/MCB DRAWING NO. 16 OF 18 SHTS
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COOMBE-BLOXDORF P.C.
Engineers / Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002708

5/14/2006 #7/LEABBREV#



ROCK CORE LOG

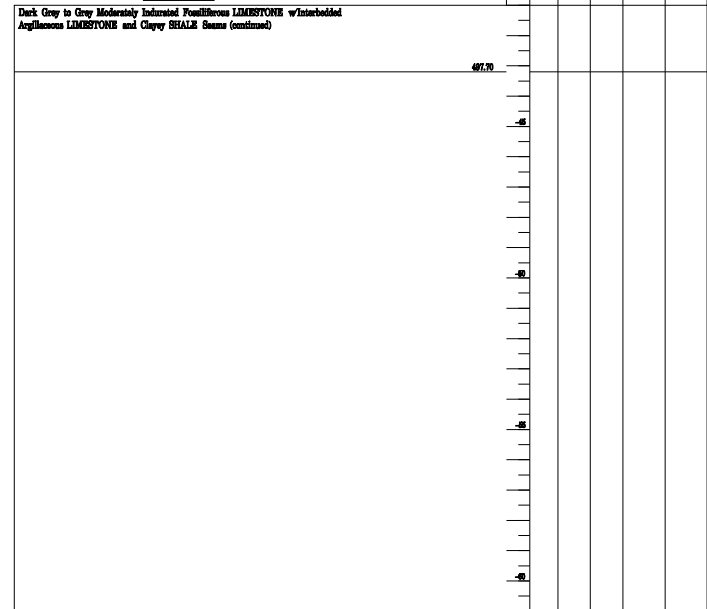
Page 1 of 3
Date 12/04

ROUTE FAP 308 (IL 336) DESCRIPTION IL 336 Retaining Wall at the Lemont River LOGGED BY M. Tuppen

SECTION 34-5 LOCATION SW 14, SEC. 16, TWP. 5 N, RNG. 6 W, 4 PM

COUNTY Hancock CORING METHOD Christensen NCB Wireline w/Water

STRUCT. NO.	034-2014	CORING BARREL TYPE & SIZE	NCB
Station	1296+25		
BORING NO.	01	Core Diameter	1.00 in
Station	1296+20	Top of Rock Elev.	539.90 ft
Other	10.00 ft	Begin Core Elev.	539.90 ft
Ground Surface Elev.	540.0 ft		



Color pictures of the cores On Request
Cores will be stored for examination until 5 Years after Construction
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-588)

ISB, form 136 (Rev. 8-89)



SOIL BORING LOG

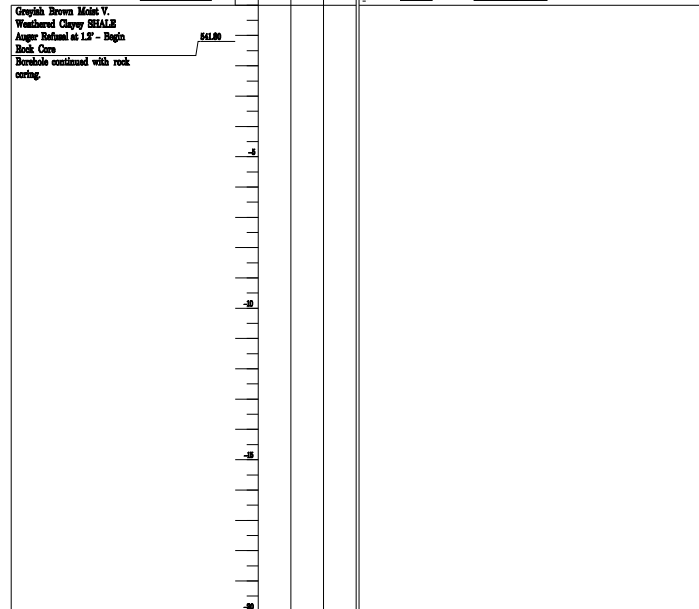
Page 1 of 1
Date 9/104

ROUTE FAP 308 (IL 336) DESCRIPTION IL 336 Retaining Wall at the Lemont River LOGGED BY M. Tuppen

SECTION 34-5 LOCATION SW 14, SEC. 16, TWP. 5 N, RNG. 6 W, 4 PM

COUNTY Hancock DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO.	034-2014	Surface Water Elev.	SHD ft
Station	1296+25	Stream Bed Elev.	No Data ft
BORING NO.	02	Groundwater Elev.	No Measurement ft
Station	1296+30	First Encounter	ft
Other	5.00 ft	Upon Completion	ft
Ground Surface Elev.	540.0 ft	Other	ft



The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Beige, S-Steel, P-Pneumatic, E-Elastic)
Abbreviations W.O.H - Sampler Advanced by Weight of Hammer, W.O.F - Advanced by Weight of Pipe, B.S. - Before Sealing
The SPT (N value) is the sum of the last two blow values in each sampling zone (ASHTO 7060) ISB, form 137 (Rev. 8-89)

ISB, form 137 (Rev. 8-89)



ROCK CORE LOG

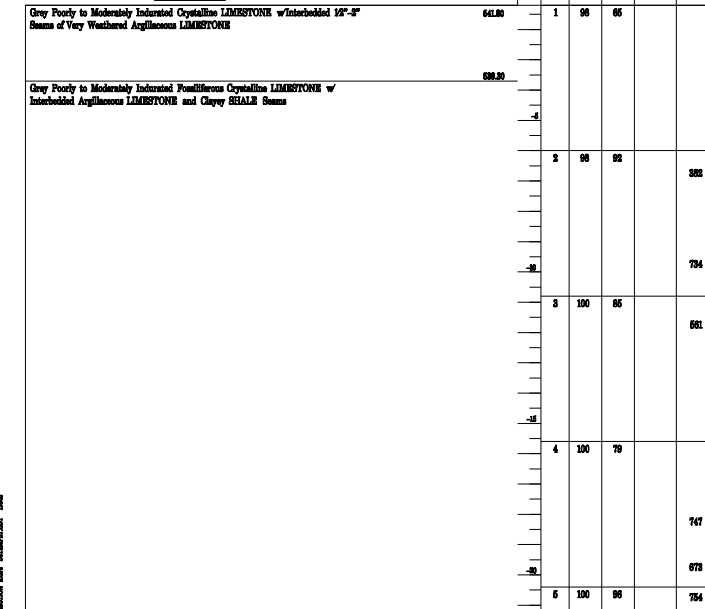
Page 1 of 3
Date 9/104

ROUTE FAP 308 (IL 336) DESCRIPTION IL 336 Retaining Wall at the Lemont River LOGGED BY M. Tuppen

SECTION 34-5 LOCATION SW 14, SEC. 16, TWP. 5 N, RNG. 6 W, 4 PM

COUNTY Hancock CORING METHOD Christensen NCB Wireline w/Water

STRUCT. NO.	034-2014	CORING BARREL TYPE & SIZE	NCB
Station	1296+25		
BORING NO.	05	Core Diameter	1.00 in
Station	1296+30	Top of Rock Elev.	541.80 ft
Other	5.00 ft	Begin Core Elev.	541.80 ft
Ground Surface Elev.	542.0 ft		



Color pictures of the cores On Request
Cores will be stored for examination until 5 Years after Construction
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-588)

ISB, form 136 (Rev. 8-89)

ILLINOIS DEPARTMENT OF TRANSPORTATION	
SHEET TITLE STRUCTURE NUMBER 037-0069 STRUCTURE NUMBER 037-0069	
PROJECT FAP ROUTE 315 (IL 336/US 136) SECTION 34-5(5B) HANCOCK COUNTY STA. 1293+50.00(R) TO STA. 1297+00.00(R) STRUCTURE NUMBER 034-2521	PROJECT NO. 02076-R SCALE 9450 DATE 12/22/05 DRAWN BY TFG CHECKED BY BD/MCB DRAWING NO. 16 OF 18 SHTS
COOMBE-BLOXDORF P.C. Engineers / Land Surveyors Springfield, Illinois Design Firm License No. 184-002703	

Rock Core Log

Page 1 of 1
Date 9/10/04

ROUTE FAP 302 (IL 336) DESCRIPTION IL 336 Retaining Wall at the Lemona River LOGGED BY M. Tuppen

SECTION 34-5 LOCATION SW 1/4, SEC. 16, TWP. 9 N, RNG. 6 W, 4 PM

COUNTY Hancock CORING METHOD Christensen NKB Wireline w/Water

STRUCT. NO. 034-2014 CORING BARREL TYPE & SIZE NKB
Station 1296+25

BORING NO. 88 Core Diameter 1.50 in
Station 1296+50 Top of Rock Elev. 541.80 ft
Depth 7.05 ft Begin Core Elev. 541.80 ft
Other 5.05 ft
Ground Surface Elev. 545.0 ft

DEPTH (ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
0	100	95					628
7.05							

Gray to Moderately Indurated Fossiliferous Crystalline LIMESTONE w/ Interbedded Argillaceous LIMESTONE and Clayey SHALE seams (continued)

Color pictures of the cores _____ On Request
Cores will be stored for examination until 5 Years after Construction
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-3988)

HSS, form 138 (Rev. 8-99)

Soil Boring Log

Page 1 of 1
Date 9/10/04

ROUTE FAP 302 (IL 336) DESCRIPTION IL 336 Retaining Wall at the Lemona River LOGGED BY M. Tuppen

SECTION 34-5 LOCATION SW 1/4, SEC. 16, TWP. 9 N, RNG. 6 W, 4 PM

COUNTY Hancock DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO. 034-2014
Station 1296+25

BORING NO. 88A
Station 1296+50
Other 7.05 ft
Ground Surface Elev. 545.0 ft

DEPTH (ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
0	100	95					628
7.05							

Grayish Brown Weathered Clayey SHALE

Begin Rock Core at 2.0'

Borehole continued with rock casing.

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (S-Block, S-Shear, P-Perforator, B-Stratified)
Abbreviations W.O.H. - Sampler Advanced By Weight of Hammer, W.O.P. - Advanced by Weight of Pipe, U.S. - Before Sealing
The SPT (N) value is the sum of the last two blow values in each sampling zone (ASTM D-1586, form 137 (Rev. 8-99))

HSS, form 138 (Rev. 8-99)

Rock Core Log

Page 1 of 1
Date 9/10/04

ROUTE FAP 302 (IL 336) DESCRIPTION IL 336 Retaining Wall at the Lemona River LOGGED BY M. Tuppen

SECTION 34-5 LOCATION SW 1/4, SEC. 16, TWP. 9 N, RNG. 6 W, 4 PM

COUNTY Hancock CORING METHOD Christensen NKB Wireline w/Water

STRUCT. NO. 034-2014 CORING BARREL TYPE & SIZE NKB
Station 1296+25

BORING NO. 88A Core Diameter 1.50 in
Station 1296+50 Top of Rock Elev. 541.80 ft
Depth 7.05 ft Begin Core Elev. 541.80 ft
Other 5.05 ft
Ground Surface Elev. 545.0 ft

DEPTH (ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
0	100	95					628
7.05							

Gray Moderately Indurated Fossiliferous Crystalline LIMESTONE w/ Interbedded Argillaceous LIMESTONE and Clayey SHALE seams

Color pictures of the cores _____ On Request
Cores will be stored for examination until 5 Years after Construction
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-3988)

HSS, form 138 (Rev. 8-99)

ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET TITLE
STRUCTURE NUMBER 037-0069
DRAWING NUMBER 037-0069

PROJECT FAP ROUTE 315 (IL 336/US 136) SECTION 34-5(5B) HANCOCK COUNTY STA. 1293+50.00(R) TO STA. 1297+00.00(R) STRUCTURE NUMBER 034-2521	PROJECT NO. 02076-R SCALE 9450 DATE 12/22/05 DRAWN BY TFG CHECKED BY BD/MCB DRAWING NO.
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COOMBE-BLOXDORF P.C.
Engineers / Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002703

10
OF 18 SHTS



SOIL BORING LOG

Page 1 of 1
Date 2/20/04

ROUTE FAP 302 (IL 336) DESCRIPTION IL 336 Retaining Wall at the Lemons River LOGGED BY M. Tappan
SECTION 34-5 LOCATION SW 1/4, SEC. 16, TWP. 5 N, RNG. 6 W, 4 PM
COUNTY Hancock DRILLING METHOD HSA HAMMER TYPE 140 #. Anis

STRUCT. NO.	STATION	D	B	U	M	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.	Flow Recorder	Up on Completion	After	hrs.	Plugged																																																																																				
034-2014	1296+25					518.0	No Data		No Recorder	Cord																																																																																							
Brown and Tanish Grey Dry Weathered Clayey SHALES																																																																																																	
<table border="1"> <tr> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>2</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>3</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>4</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>5</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>6</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> </tr> </table>														1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																				
2	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																				
3	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																				
4	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																				
5	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																				
6	0	0	0	0	0	0	0	0	0	0	0	0	0																																																																																				
Grey Moderately Indurated Crystalline LIMESTONE Auger Refused at 7' - Diggs Rock Core Borehole continued with rock coring																																																																																																	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (S-Debris, S-Shear, P-Penetrator, E-Striated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Borehole Sealing
The SPT (N) value is the sum of the last two blow values in each sampling zone (ASTM D-1586, Rev. 8-99)



ROCK CORE LOG

Page 1 of 1
Date 2/20/04

ROUTE FAP 302 (IL 336) DESCRIPTION IL 336 Retaining Wall at the Lemons River LOGGED BY M. Tappan
SECTION 34-5 LOCATION SW 1/4, SEC. 16, TWP. 5 N, RNG. 6 W, 4 PM
COUNTY Hancock CORING METHOD Christensen NCB Wireline w/Water

STRUCT. NO.	STATION	BORING NO.	Core Diameter	Top of Rock Elev.	Begin Core Elev.	Ground Surface Elev.	D	C	O	Q	I	R	E	S																																																																											
034-2014	1296+25	55	1.00 in	548.40	548.40	548.40																																																																																			
Grey Moderately Indurated Fossiliferous Weathered Crystalline LIMESTONE Broken in 12"-3" Pieces																																																																																									
Grey Moderately Indurated Fossiliferous Crystalline LIMESTONE w/interbedded Argillaceous LIMESTONE and Clayey SHALES Stems																																																																																									
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Color pictures of the cores On Request
Cores will be stored for examination until 5 Years after Construction
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

HSS, form 136 (Rev. 8-99)



ROCK CORE LOG

Page 1 of 1
Date 2/20/04

ROUTE FAP 302 (IL 336) DESCRIPTION IL 336 Retaining Wall at the Lemons River LOGGED BY M. Tappan
SECTION 34-5 LOCATION SW 1/4, SEC. 16, TWP. 5 N, RNG. 6 W, 4 PM
COUNTY Hancock CORING METHOD Christensen NCB Wireline w/Water

STRUCT. NO.	STATION	BORING NO.	Core Diameter	Top of Rock Elev.	Begin Core Elev.	Ground Surface Elev.	D	C	O	Q	I	R	E	S																																																																											
034-2014	1296+25	55	1.00 in	548.40	548.40	548.40																																																																																			
Light Grey V. Finely Indurated Calcareous CLAY (underlay) Plugged Core Barrel at 28.2' - Adjusted Sample Increment (continued)																																																																																									
Grey Moderately Indurated Fossiliferous Crystalline LIMESTONE w/interbedded Argillaceous LIMESTONE and Clayey SHALES Stems																																																																																									
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Color pictures of the cores On Request
Cores will be stored for examination until 5 Years after Construction
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

HSS, form 136 (Rev. 8-99)

ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET TITLE
STRUCTURE NUMBER 037-0069
STRUCTURE NUMBER 037-0069

PROJECT
FAP ROUTE 315 (IL 336/US 136)
SECTION 34-5(5B)
HANCOCK COUNTY
STA. 1293+50.00(R) TO STA. 1297+00.00(R)
STRUCTURE NUMBER 034-2521

PROJECT NO. 02076-R
SCALE 9450
DATE 12/22/05
DRAWN BY TFG
CHECKED BY BD/MCB
DRAWING NO.

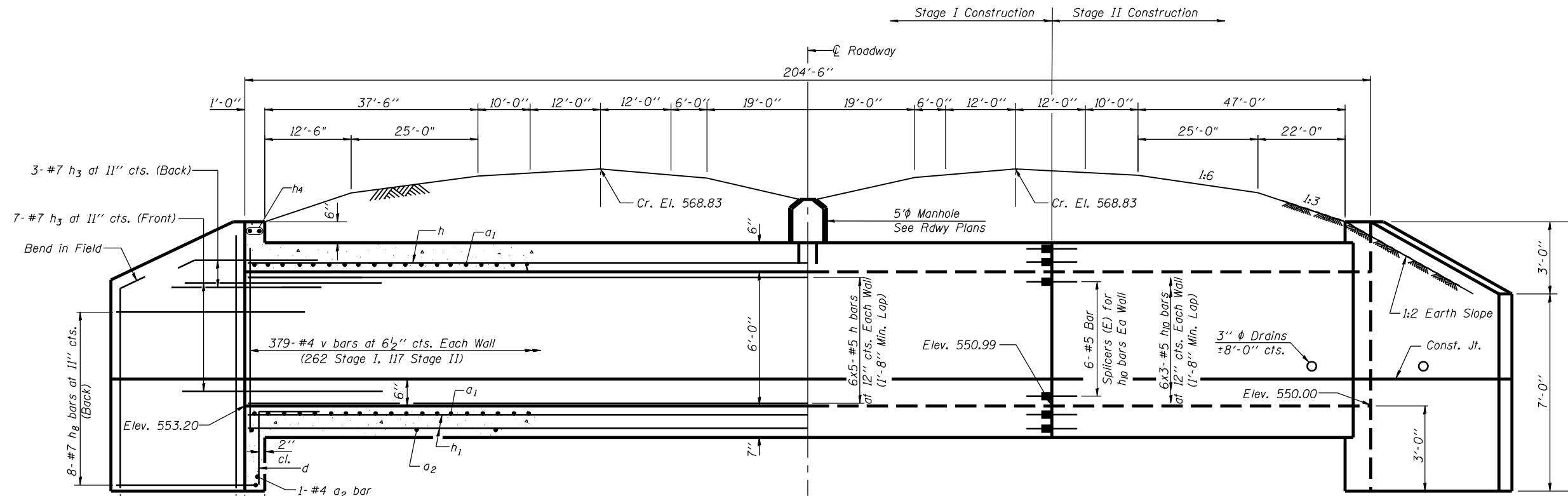
COOMBE-BLOXDORF P.C.
Engineers / Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002703

18
OF 18 SHTS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 315	34-5(5B)	HANCOCK	612	267
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 1
3 SHEETS

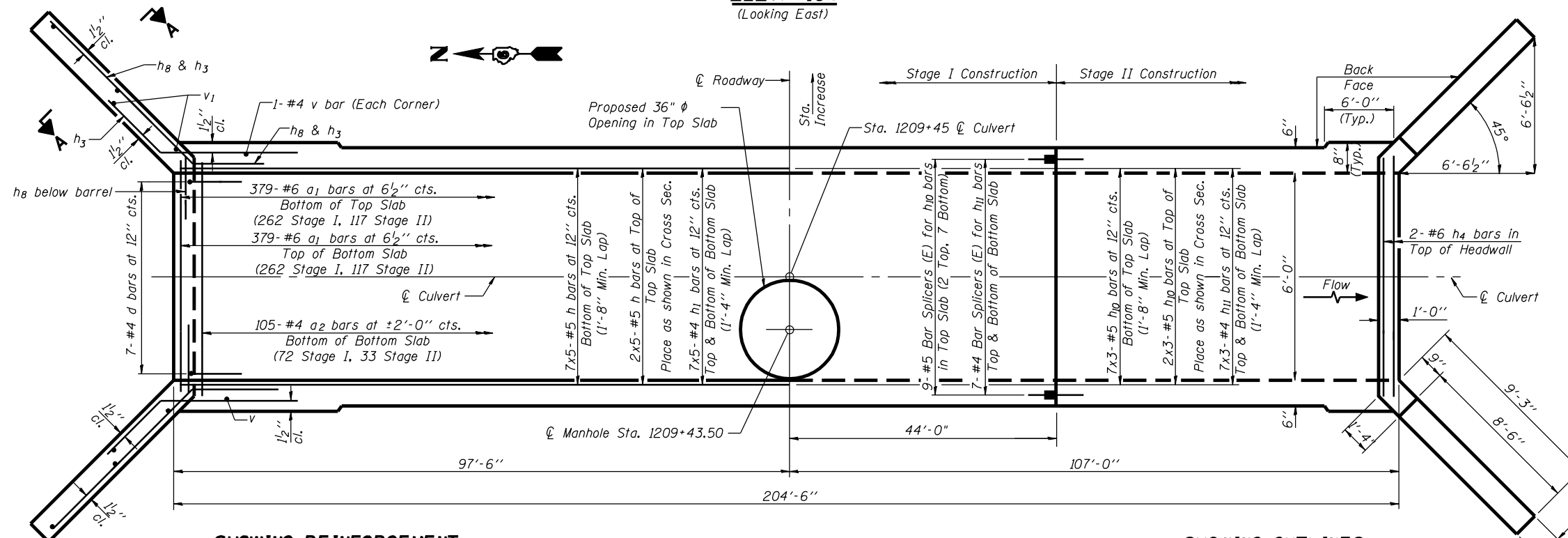
CONTRACT NO.



HALF LONG SECTION

ELEVATION
(Looking East)

HALF ELEVATION



SHOWING REINFORCEMENT

PLAN
(Looking East)

SHOWING OUTLINES

NOTES

A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
Reinforcement Bars shall conform to the requirements of AASHTO M31or M322, Grade 60.
Bars indicated thus 12x4-#5 etc. indicates 12 lines of bars with 4 lengths per line.
All construction joints shall be bonded.
See Sheet 2 of 3 for Section A-A.

MIN. BAR LAP

#4 bar = 1'-4"
#5 bar = 1'-8"

ILLINOIS DEPARTMENT OF TRANSPORTATION	
SHEET TITLE CULVERT GENERAL PLAN & ELEVATION	
PROJECT FAP 315 (IL 336/US 136)	PROJECT NO. 02076
SECTION 34-5 (5B)	DATE 03/08/06
HANCOCK COUNTY	DRAWN BY TFG
STATION 1209+45	CHECKED BY AJB/MCB
DRAWING NO.	
COOMBE-BLOXDORF P.C. Engineers/Land Surveyors Springfield, Illinois	
Design Firm License No. 184-002708	1
OF 3 SHTS	

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a ₁	758	#6	8'-0"	
a ₂	107	#4	6'-8"	
a ₃	4	#5	7'-0"	
d	14	#4	4'-6"	
h	105	#5	29'-8"	
h ₁	70	#4	29'-5"	
h ₃	40	#7	8'-0"	
h ₄	4	#6	6'-6"	
h ₈	32	#7	12'-6"	
h ₁₀	63	#5	22'-2"	
h ₁₁	42	#4	21'-11"	
v	762	#4	6'-9"	
v ₁	16	#4	9'-8"	
Concrete Box Culverts			Cu. Yd.	114.6
Reinforcement Bars			Pound	21410
Bar Splicers			Each	35

DESIGN STRESSES

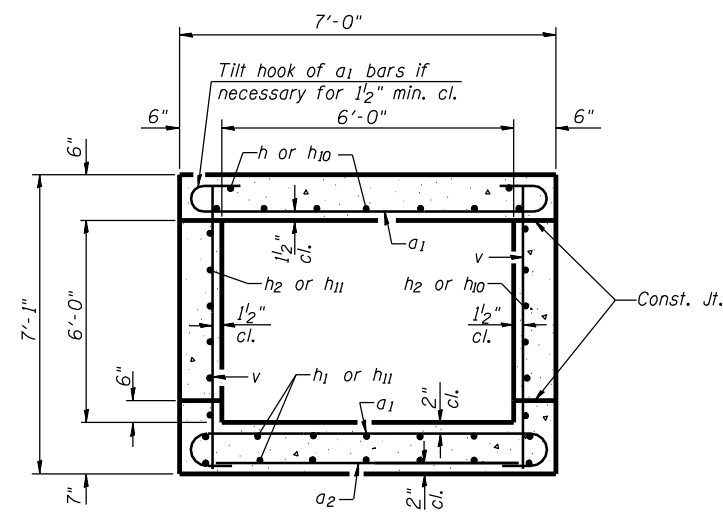
f_y = 60,000 psi
f'c = 3,500 psi

LOADING HS 20-44 & ALT.

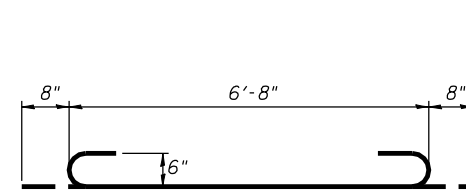
MIN. BAR LAP

#4 = 1'-4"
#5 = 1'-8"

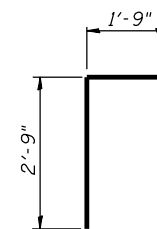
ILLINOIS DEPARTMENT OF TRANSPORTATION			
SHEET TITLE CULVERT DETAILS AND			
PROJECT FAP 315 (IL 336/US 136)	SECTION SECTION 34-5 (5B)	COUNTY HANCOCK COUNTY	STATION STATION 1209+45
PROJECT NO. 02076	DATE 03/08/06	DESIGNED BY TFG	CHECKED BY AUB/MCB
COOMBE-BLOXDORF P.C. Engineers/Land Surveyors Springfield, Illinois			2
Design Firm License No. 184-002708			OF 3 SHTS



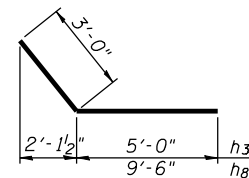
SECTION THRU BARREL



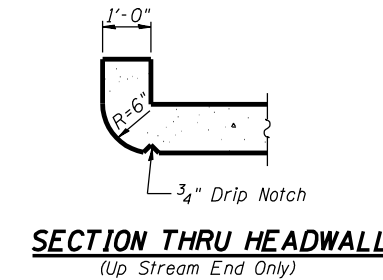
BAR a₁



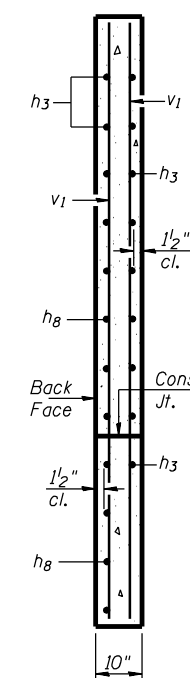
BAR d



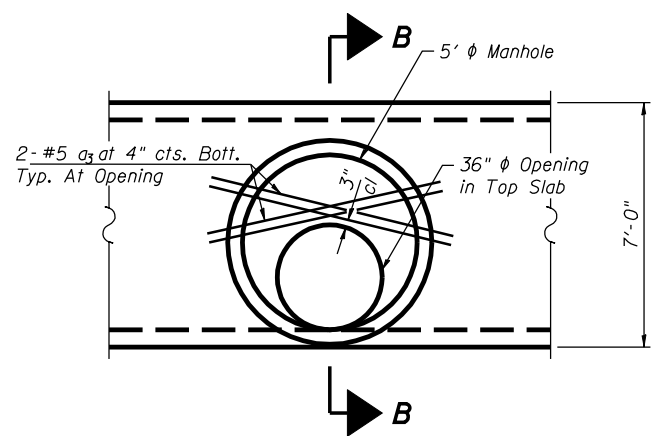
BARS h₃ & h₈



**SECTION THRU HEADWALL
(Up Stream End Only)**

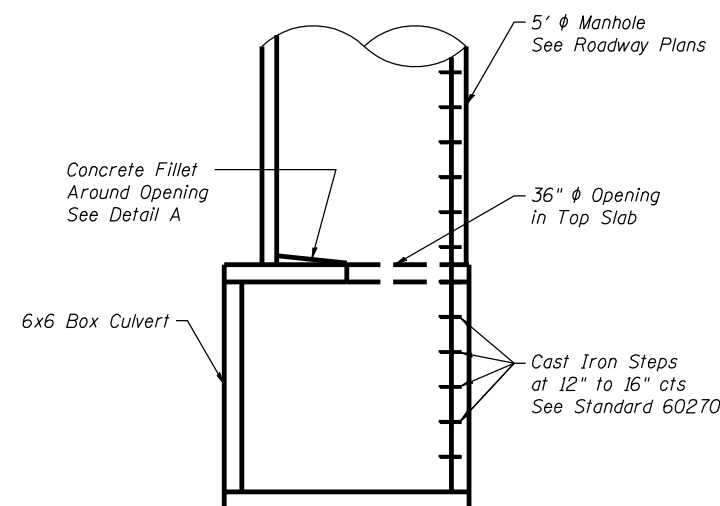


SECTION A-A

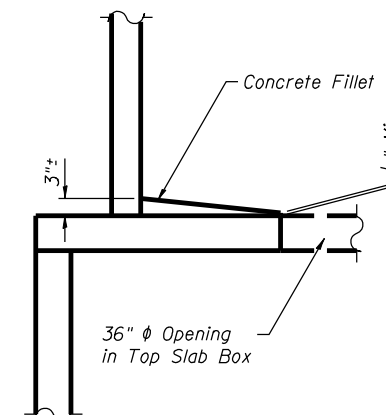


TOP VIEW OF MANHOLE AT STA. 1209+43.5

Cut a₁ bars and h bars in Field as Required to Clear Opening in Top Slab



SECTION B-B



DETAIL A

Note:
Cost of Concrete Fillet and Cast Iron Steps
Shall be Included in the Cost of Concrete Box Culverts

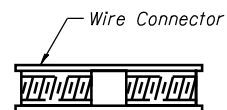
The diameter of this part is the same as the diameter of the bar spliced.

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

ROLLED THREAD DOWEL BAR



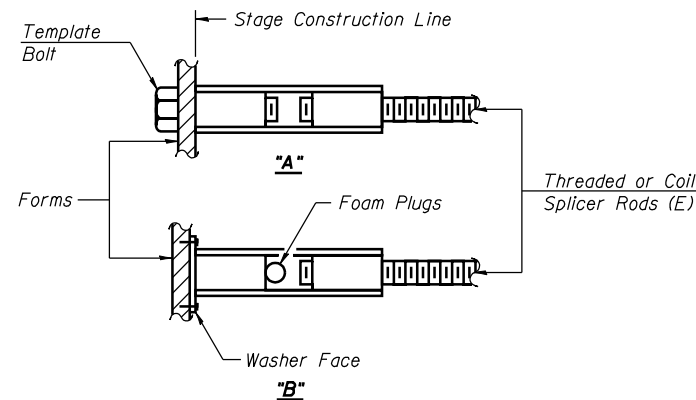
**** ONE PIECE**



WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

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



INSTALLATION AND SETTING METHODS

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

NOTES

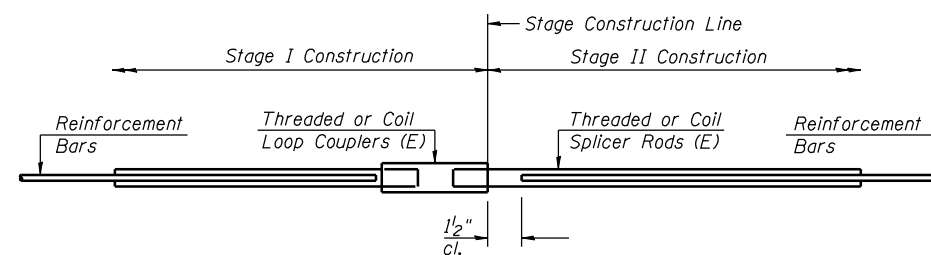
Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
 Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
 All reinforcement bars shall be lapped and tied to the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

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

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

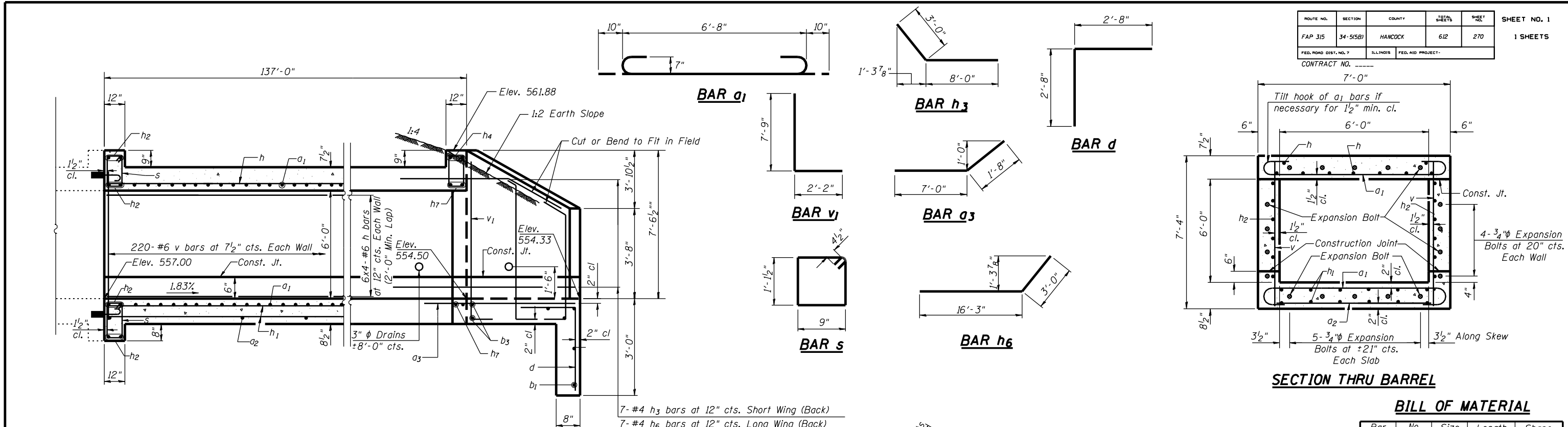
BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	5.9
#5	2'-2"	23.0	9.2

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



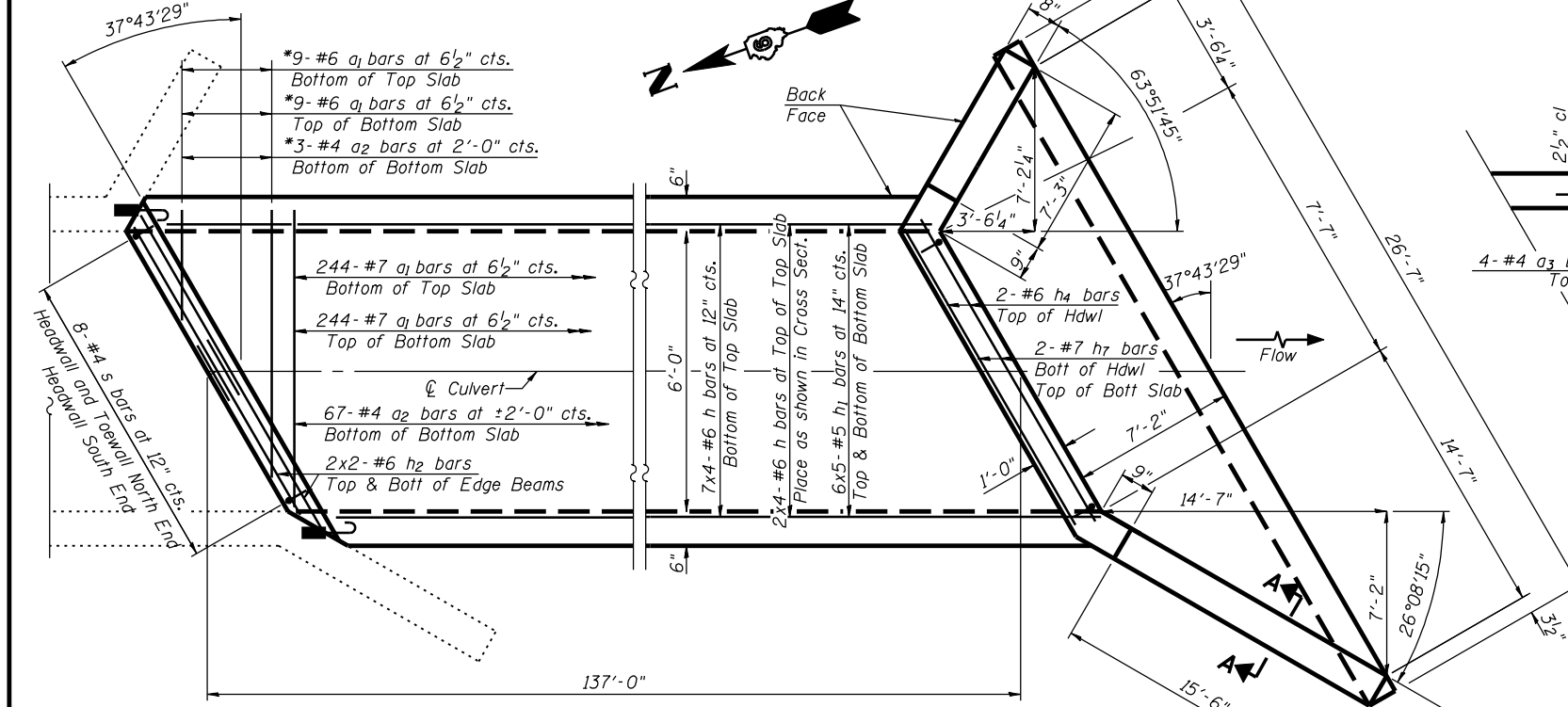
STANDARD

Bar Size	No. Assemblies Required	Location
#5	9	Top Slab
#4	14	Bottom Slab
#5	12	Outside Walls



*a₁ and a₂ bars in skew portion of slab shall be ordered full length and cut to fit. Balance of bar to be used in opposite end of culvert.

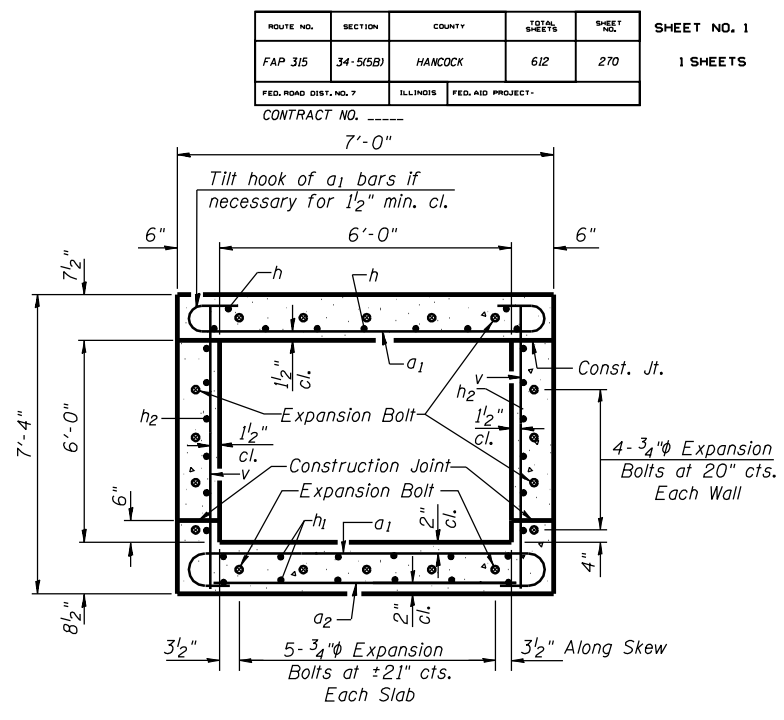
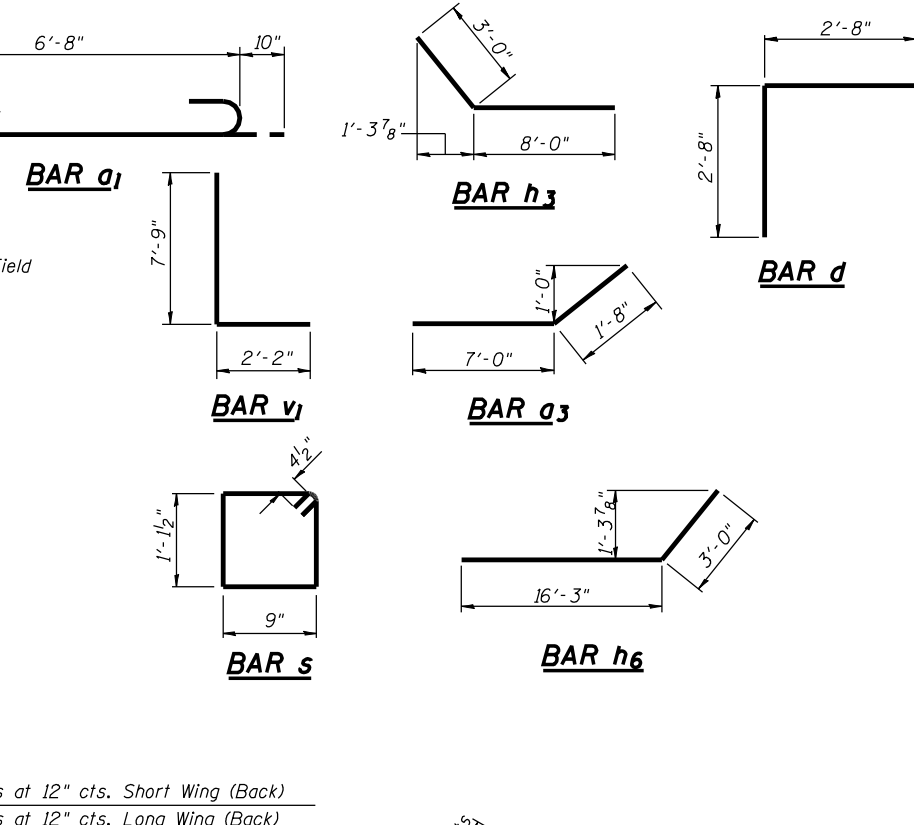
ELEVATION



NOTES

Reinforcement Bars shall conform to the requirements of AASHTO M31 or M322, Grade 60.
 Bars indicated thus 7x4-#6 etc. indicates 7 lines of bars with 4 lengths per line.
 All construction joints shall be bonded.
 Expansion Bolts Shall be 3/4" Diameter Hooked Bolts and Shall Conform to the Requirements of Article 1006.09 of the Standard Specifications.
 Hooked Bolts Shall Extend a Minimum of 9" into New Concrete.

PLAN



SECTION THRU BARREL

BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a ₁	506	#7	8'-4"	U	
a ₂	70	#4	6'-8"	U	
a ₃	4	#4	8'-8"	U	
b ₁	16	#4	13'-11"	U	
b ₂	12	#4	10'-11"	U	
b ₃	8	#4	7'-2"	U	
d	27	#4	5'-4"	L	
h	84	#6	35'-8"	U	
h ₁	60	#5	28'-8"	U	
h ₂	16	#6	5'-6"	U	
h ₃	7	#4	11'-0"	U	
h ₄	2	#6	7'-4"	U	
h ₅	7	#4	19'-3"	U	
h ₇	4	#7	7'-4"	U	
s	24	#4	4'-6"	U	
v	440	#6	7'-0"	U	
v ₁	25	#5	9'-11"	L	
Concrete Box Culverts				Cu. Yd.	86.8
Reinforcement Bars				Pound	20930
Expansion Bolts 3/4"				Each	18

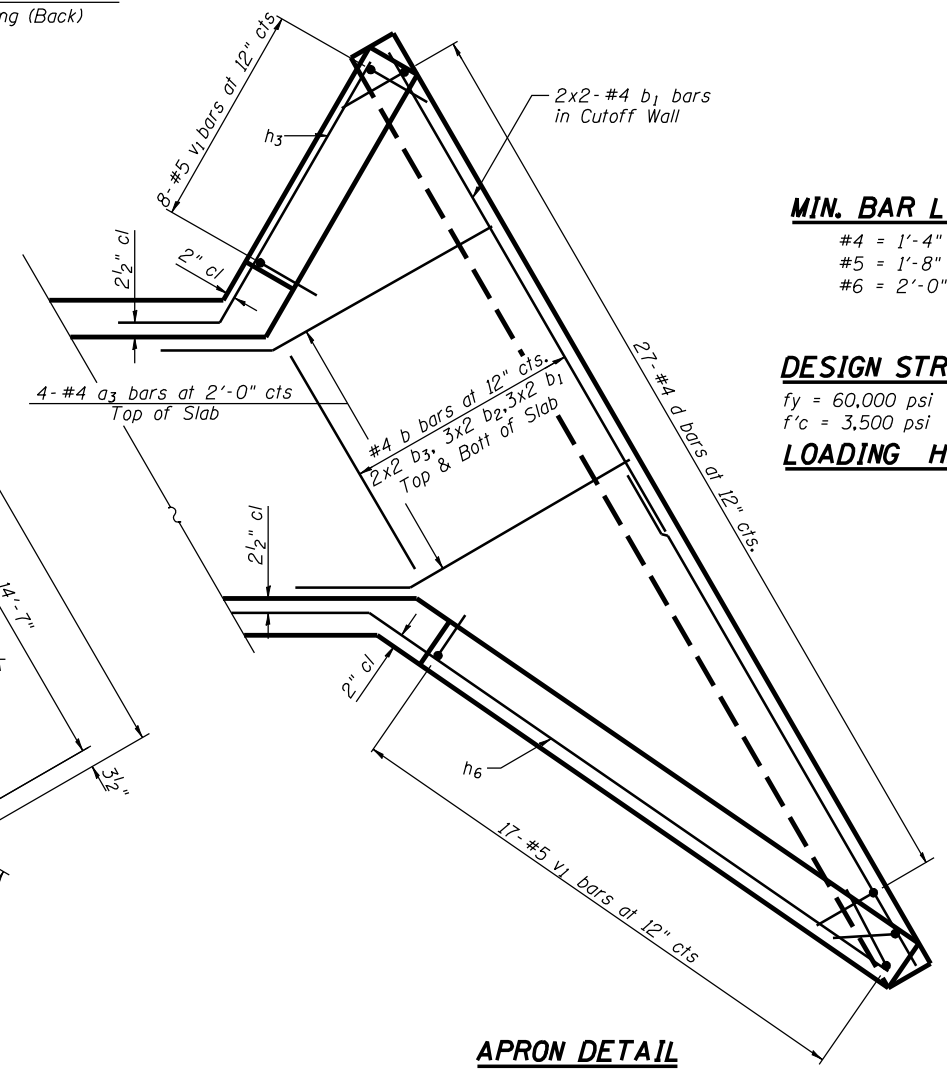
MIN. BAR LAPS

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

DESIGN STRESSES

f_y = 60,000 psi
 f'_c = 3,500 psi

LOADING HS 20-44



APRON DETAIL

ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET TITLE: CULVERT EXTENSION DETAILS

PROJECT: FAP 315 (IL 336/US 136)
 SECTION 34-5(5B)
 HANCOCK COUNTY
 STATION 1268+62.62

PROJECT NO. 02076
 DATE 03/08/06
 DRAWN BY TFG
 CHECKED BY AJB/MCB
 DRAWING NO.

COOMBE-BLOXDORF P.C.
 Engineers/Land Surveyors
 Springfield, Illinois
 Design Firm License No. 184-002708

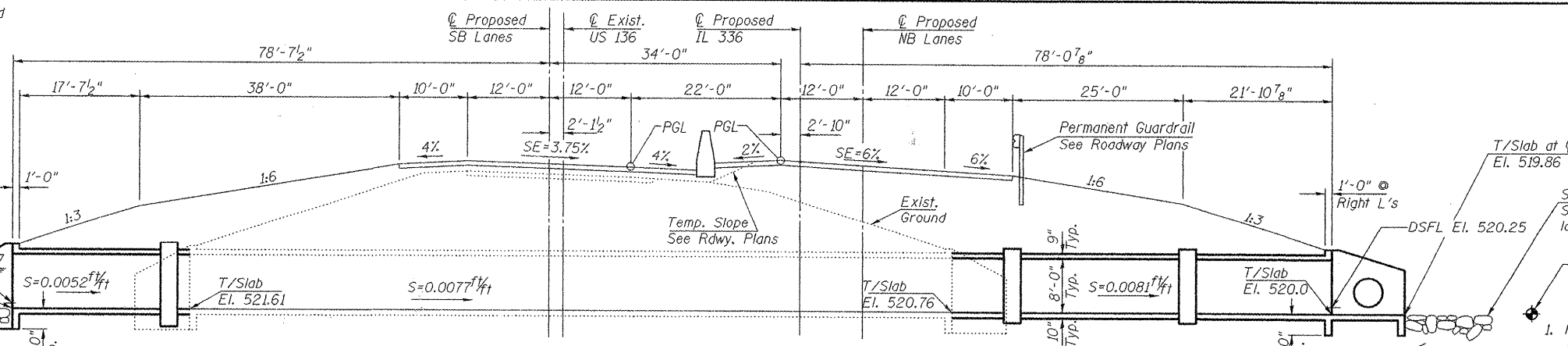
1
 OF 1 SHTS

DATE: 03/08/06
 FILE NAME: 34-5(5B)_CULVERT
 PLOT SCALE: AS SHOWN
 USER NAME: MCB

Bench Mark: Spike in power pole located South of @ at Sta 1314+62 EL 529.62

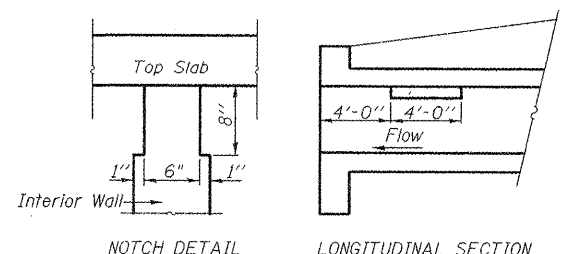
Existing Structure: Double 7' x 8' RC Box Culvert. Existing culvert is to be extended 27' to the north and 93' to the south. One lane of traffic in each direction will be maintained at all times. Stage 1 traffic will remain on existing roadway. Stage 3 traffic will be maintained on new Northbound lanes of IL 336.

Salvage: None
 DHW 50 El. 526.7
 USFL El. 522.0
 T/Slab El. 521.75



ELEVATION

Dimensions at Right angles to IL 336



PHOEBE NESTING SITE ON BOX CULVERT

Notch formed by rough-finished board attached to and removed with formwork.

STATION 1289+79.56
 REBUILT 20... BY
 STATE OF ILLINOIS
 FAP RT 315 SEC 34-5 (5B)
 LOADING HS20
 STR. NO. 034-7002

NAME PLATE

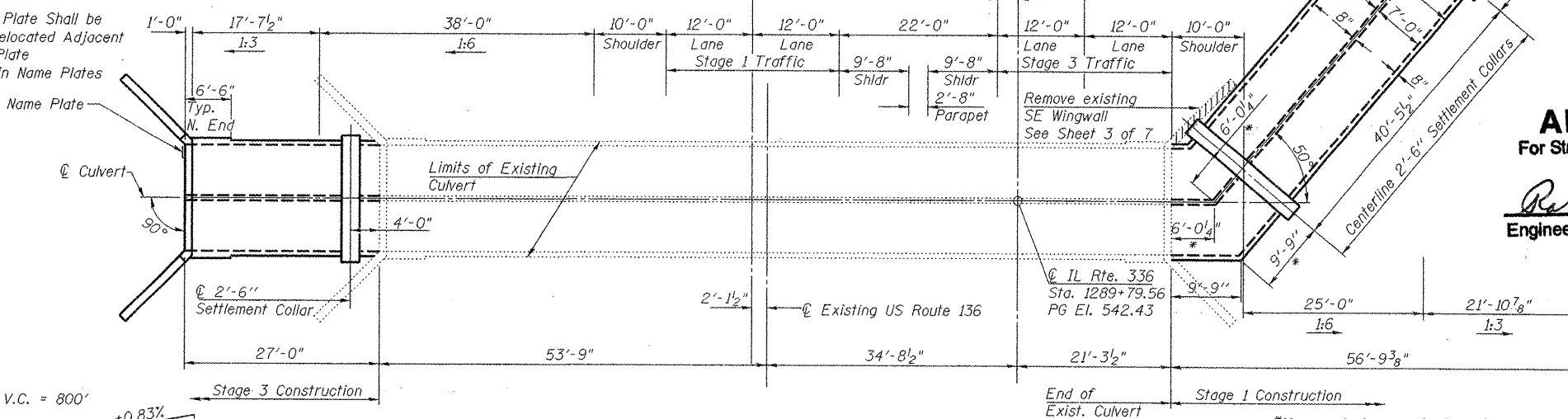
See Std. 515001

CURVE DATA

P.I. STA= 1293+06.01
 $\Delta = 16^{\circ}17'26''$ (RT)
 D= 2°43'40"
 R= 2100.46'
 T= 300.63'
 L= 597.21'
 E= 21.41'
 SE= 6%
 P.C. STA. = 1290+05.38
 P.T. STA. = 1296+02.59
 SB SE Attained from STA. 1287+86.38 to 1290+95.58
 SB SE Removed from STA. 1295+12.59 to 1298+21.59
 NB SE Attained from STA. 1286+64.05 to 1289+73.05
 NB SE Removed from STA. 1296+32.93 to 1299+41.93

NOTE:

Existing Name Plate Shall be Cleaned and Relocated Adjacent to New Name Plate
 Cost included in Name Plates



PLAN

DESIGN SPECIFICATIONS

2002 AASHTO

LOADING HS20-44

Allow 50 psf for Future Wearing Surface

DESIGN STRESSES

FIELD UNITS

PROPOSED EXISTING

$f'_c = 3,500$ psi $f'_c = 4,000$ psi

$f_y = 60,000$ psi (reinforcement) $f_y = 60,000$ psi (reinforcement)

GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of AASHTO M31 or M322 Grade 60.
2. For backfilling and embankment, see Standard Specifications.
3. Layout of Slope Protection System may be varied in the field to suit ground conditions as directed by the Engineer.
4. Exposed edges shall have standard $3/4''$ chamfer unless otherwise noted.
5. All construction joints shall be bonded.
6. See Roadway Plans for Riprap Layout and Quantity.
7. Removal and replacement of weak soil with Rockfill-Foundation may be required beneath the culvert. The Engineer will determine the required depth following excavation to plan grade.
8. Expansion bolts shall be $3/4''$ diameter hooked bolts and shall conform to the requirements of Article 1006.09 of the Standard Specifications. Hooked bolts shall extend a minimum of 9' into new concrete.
9. At least 6'-6'' of the barrel shall be poured monolithically with the north wing walls.
10. Precast alternate is not allowed.

INDEX OF SHEETS

1. General Plan and Elevation
2. Culvert Details - N. Extension
3. Plan & Elevation - S. Extension
4. Culvert Details - S. Extension
5. Culvert Details - S. Extension
6. Settlement Collar Details and Bar Details
7. Boring Logs

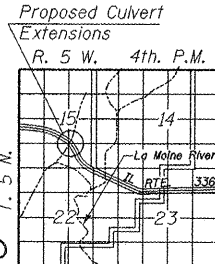
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	4.8
Expansion Bolts $3/4''$	Each	66
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	240.4
Reinforcement Bars	Pound	40,340
Rockfill-Foundation	Ton	160

** Quantity is Estimated

APPROVED
 For Structural Adequacy Only

Ralph E. Anderson
 Engineer of Bridges & Structures



LOCATION SKETCH

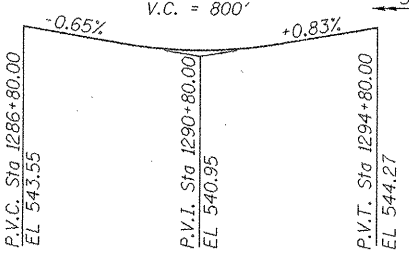
WATERWAY INFORMATION

Drainage Area = 0.29 Sq. Mi. Low Grade Elev. 542.41 @ Sta. 1290+31.50

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Prop.	Nat. H.W.E. Exist.	Prop.	Head - Ft. Exist.	Prop.	Headwater EL. Exist.	Prop.
Design	50	508	65	65	526.7	0.54	0.54	527.24	527.24	527.24
Base	100	605	70	70	527.08	0.89	0.89	527.97	527.97	527.97
Overlapping	-	-	-	-	-	-	-	-	-	-
Max. Calc.	500	848	78	78	527.71	2.01	2.01	529.72	529.72	529.72

PROFILE GRADE

(along median edge of pavement)



ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION

PROJECT: ILL. ROUTE 336 OVER TRIB TO LA MOINE RIVER
 FAP ROUTE 315 SECTION 34-5(5B)
 HANCOCK COUNTY
 STATION 1289+79.56
 STRUCTURE NUMBER 034-7002

DESIGNED BY: MARY COOMBE BLOXDORF
 DRAWN BY: MARY COOMBE BLOXDORF
 CHECKED BY: MARY COOMBE BLOXDORF
 DATE: 03/09/06

COOMBE-BLOXDORF P.C.
 Engineers / Land Surveyors
 Springfield, Illinois
 Design Firm License No. 184-002708

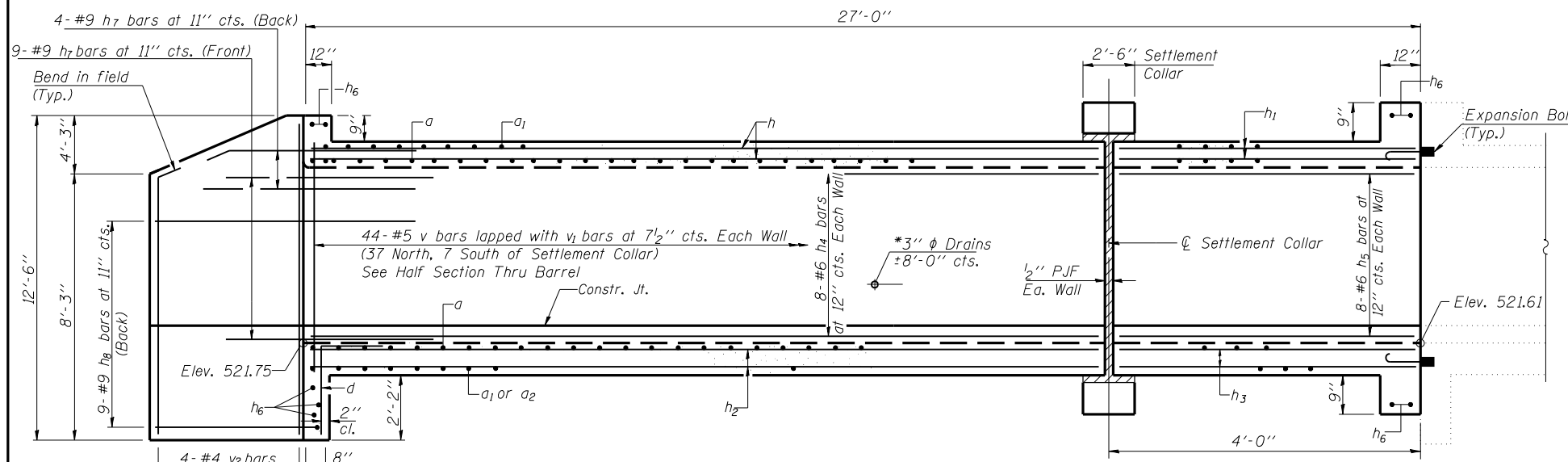
1 OF 7 SHEETS

FILE NAME = ...
 PLOT SCALE = 1/8000 in / in.
 SHEET NAME = G.P.C.

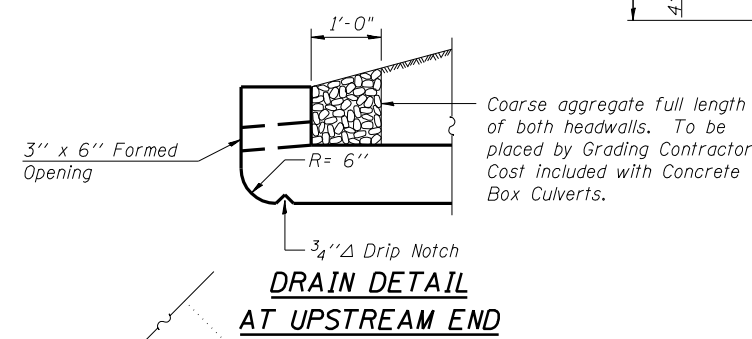
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FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 2
7 SHEETS

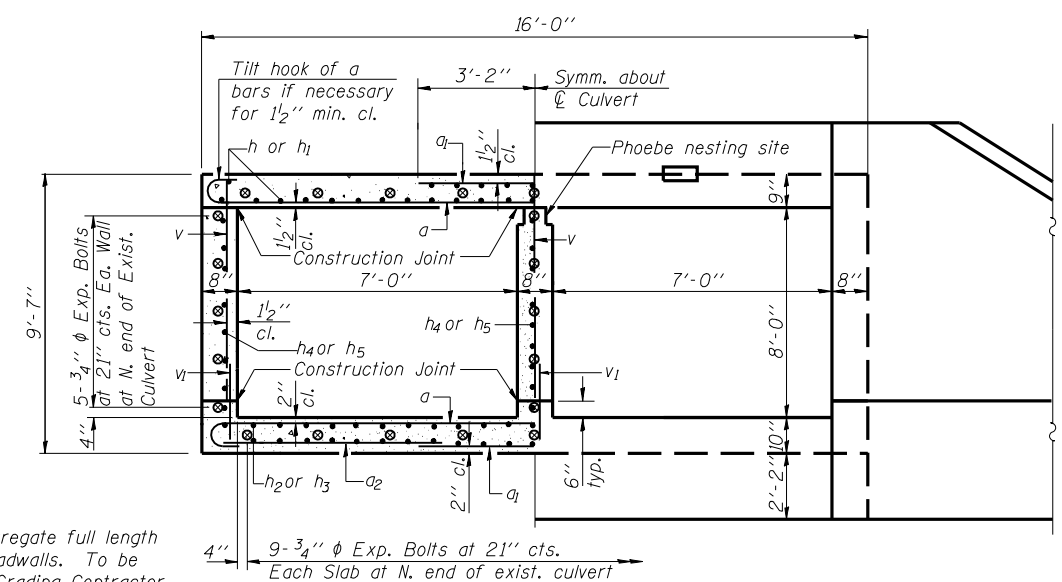
CONTRACT NO. 72682



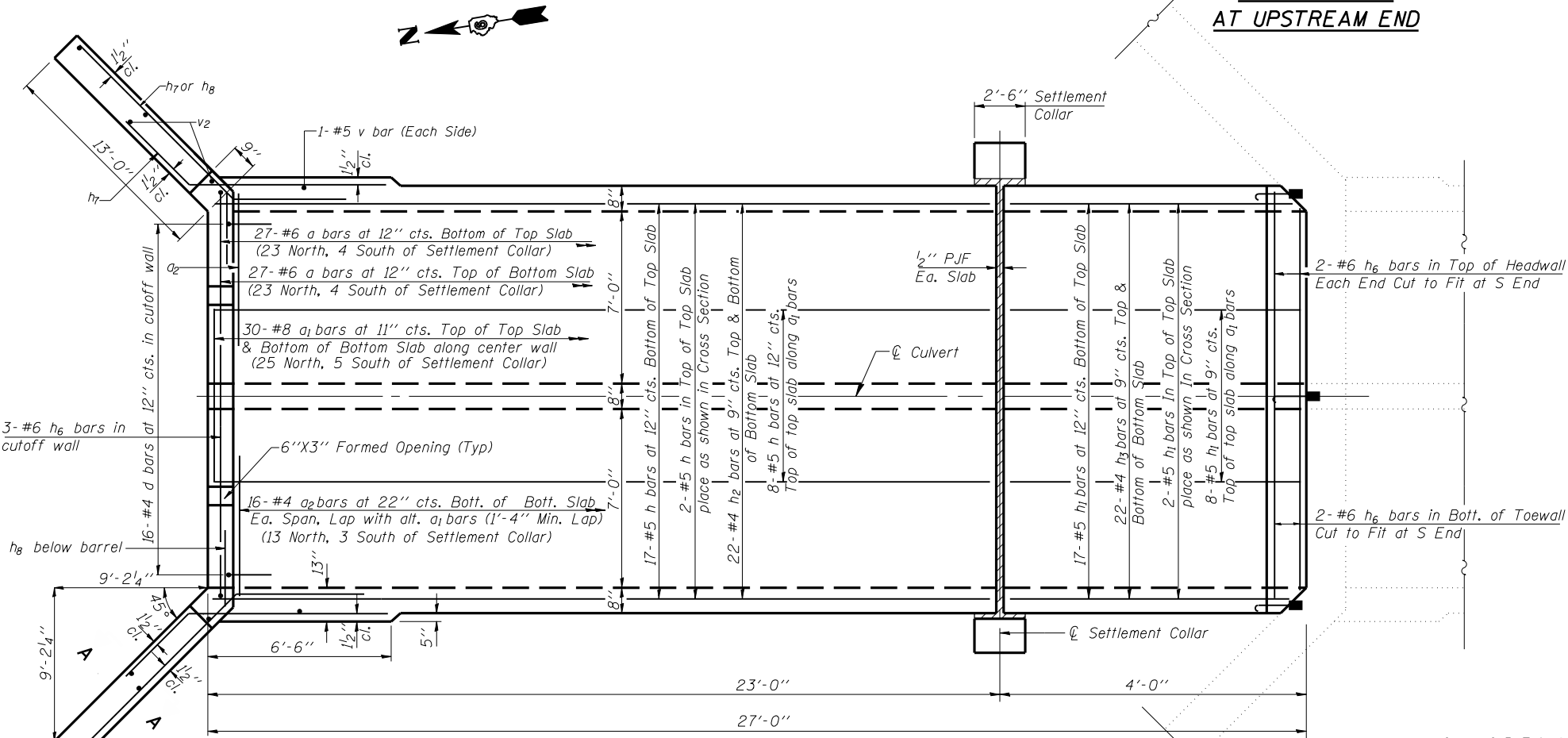
ELEVATION
North Extension



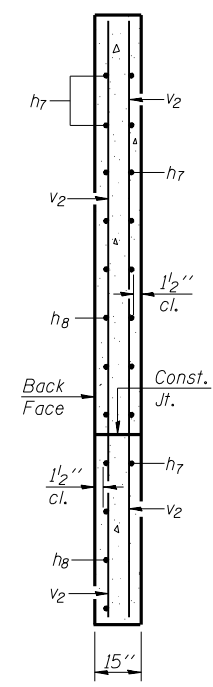
DRAIN DETAIL
AT UPSTREAM END



HALF SECTION THRU BARREL
HALF END ELEVATION
(North End)



PLAN
North Extension



SECTION A-A

BILL OF MATERIAL
NORTH EXTENSION

Bar	No.	Size	Length	Shape
a	54	#6	17'-0"	C
a1	60	#8	6'-4"	—
a2	32	#4	6'-0"	—
d	16	#4	4'-4"	L
h	27	#5	22'-8"	—
h1	27	#5	3'-8"	—
h2	44	#4	22'-8"	—
h3	44	#4	2'-8"	—
h4	24	#6	22'-8"	—
h5	24	#6	3'-8"	—
h6	9	#6	15'-8"	—
h7	26	#9	8'-0"	—
h8	18	#9	16'-0"	—
v	132	#5	7'-11"	—
v1	132	#4	3'-0"	—
v2	8	#4	10'-3"	—

Concrete Box Culverts	Cu. Yd.	57.2
Reinforcement Bars	Pound	8960
Expansion Bolts 3/4"	Each	33

NOTES

Cost of P/JF is included in Concrete Box Culverts.
See Sheet 6 of 7 for Bar Details and Settlement Collar Details.
North Extension is to be constructed in Stage 3.

ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET TITLE
CULVERT DETAILS-NORTH EXTENSION

PROJECT NO. 02076-3
DATE 03/09/06
DRAWN BY TFG
CHECKED BY CME/MCB
DESIGNED BY

IL. ROUTE 336 OVER TRIB TO LA MOINE RIVER
FAP ROUTE 315 SECTION 34-5(5B)
HANCOCK COUNTY
STATION 1289+79.56
STRUCTURE NUMBER 034-7002

COOMBE-BLOXDORF P.C.
Engineers/Land Surveyors
Springfield, Illinois

Design Firm License No. 184-002708

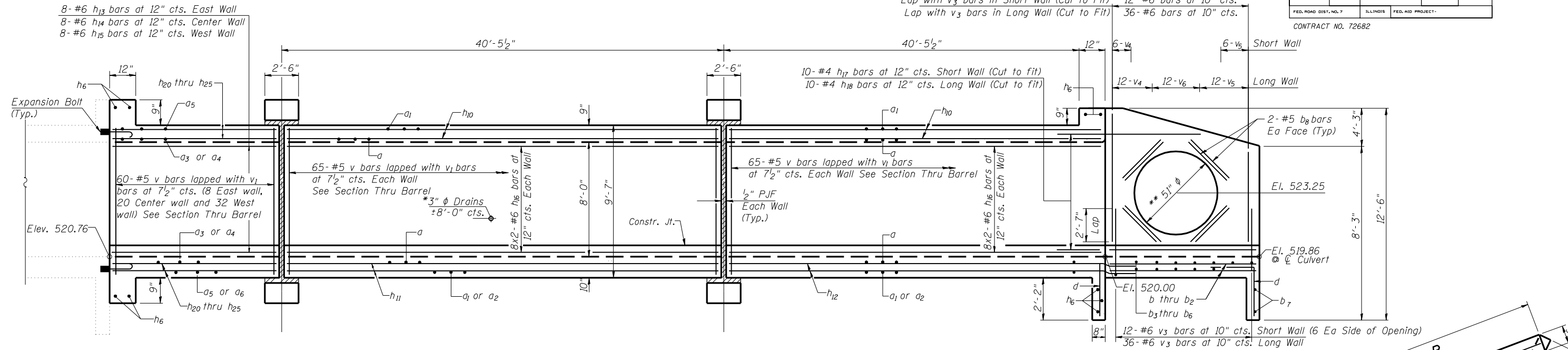
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OF 7 SHTS

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FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

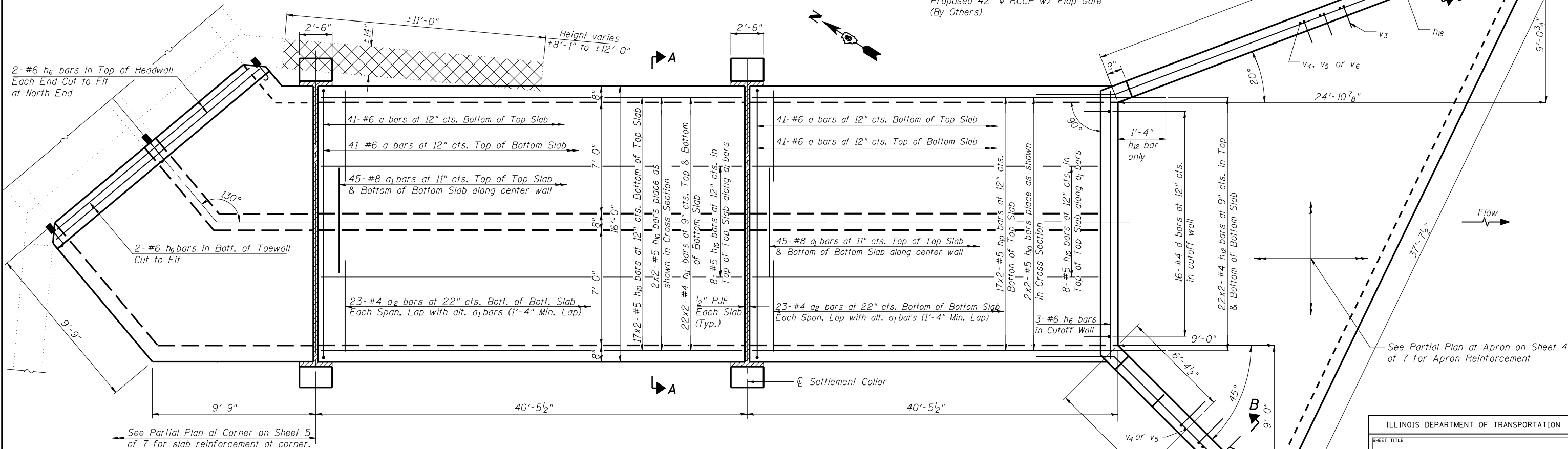
SHEET NO. 3
7 SHEETS

CONTRACT NO. 72682



ELEVATION
(South Extension)

- * Place at Least One Drain in Each Wall Segment
- ** Provide 51" ϕ Opening for Proposed 42" ϕ RCCP w/ Flap Gate (By Others)



PLAN
(South Extension)

MIN BAR LAPS

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

NOTES

Cross-Hatched area indicates Concrete Removal.
 Cost of P/JF is included in Concrete Box Culverts.
 See Sheet 4 of 7 for Section A-A, Section B-B, Partial Plan at Apron and Bill of Material.
 See Sheet 5 of 7 for Partial Plan at Corner.
 See Sheet 6 of 7 for Bar Details and Settlement Collar Details.
 South Extension is to be constructed in Stage I.
 Bars Indicated thus, 2x4-#5 etc., indicates 2 lines of bars with 4 lengths per line.

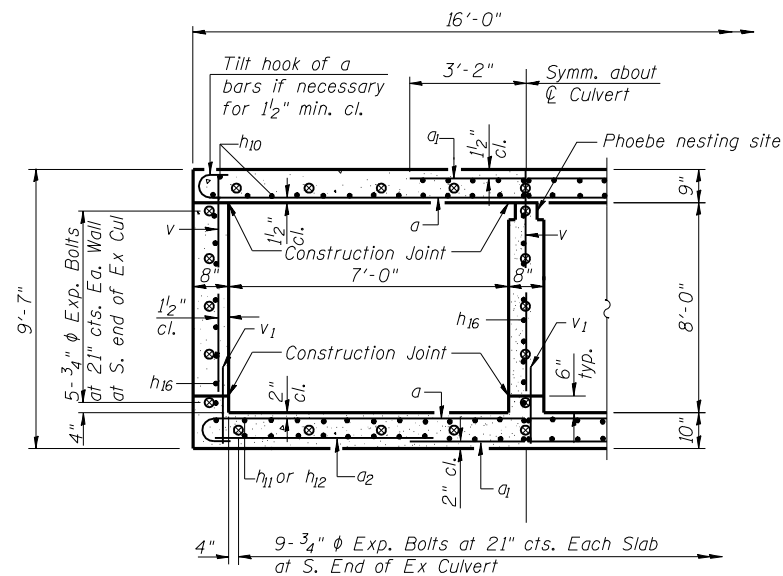
ILLINOIS DEPARTMENT OF TRANSPORTATION	
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PROJECT ILL. ROUTE 336 OVER TRIB TO LA MOINE RIVER FAP ROUTE 315 SECTION 34-515B	PROJECT NO. 02076-3
COUNTY HANCOCK COUNTY	DATE 03/09/06
STATION 1289+79.56	DRAWN BY TFG
STRUCTURE NUMBER 034-7002	CHECKED BY CME/MCB
COOMBE-BLOXDORF P.C. Engineers/Land Surveyors Springfield, Illinois	3
Design Firm License No. 184-002708	OF 7 SHTS

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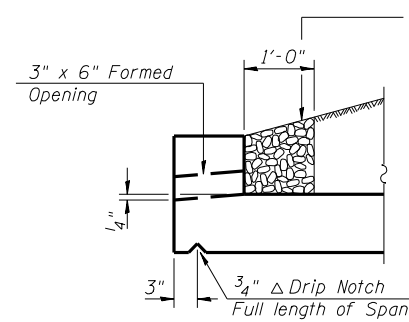
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FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 4
7 SHEETS

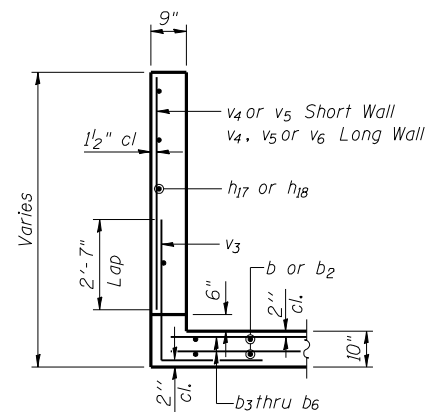
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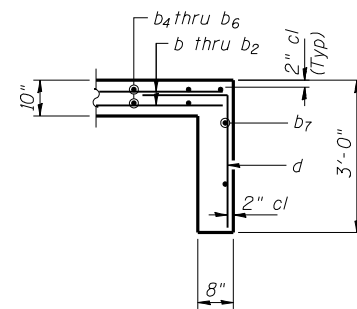
SECTION A-A



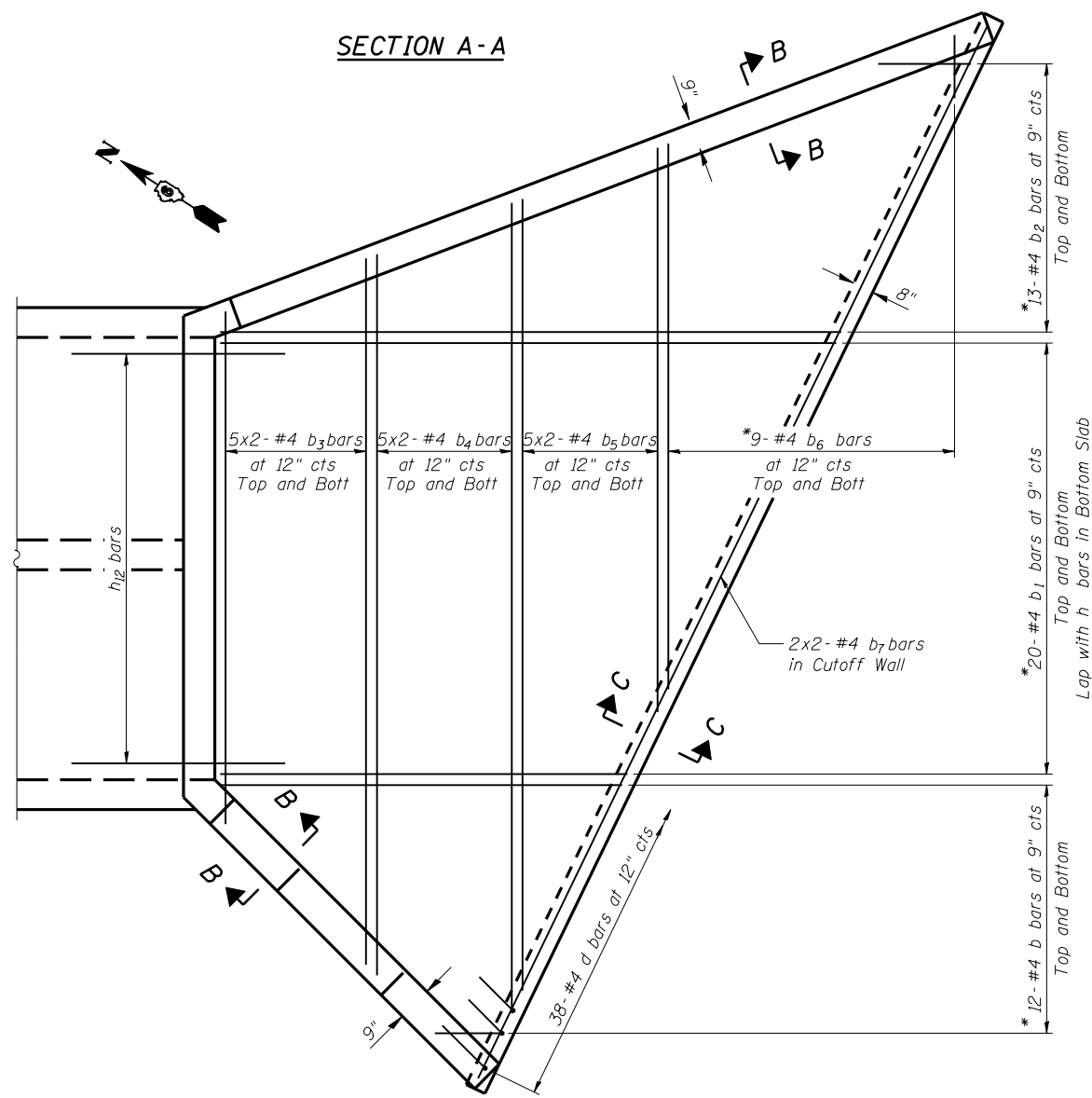
DRAIN DETAIL AT DOWNSTREAM END



SECTION B-B



SECTION C-C



PARTIAL PLAN AT APRON
(Showing Apron and Cutoff Wall Reinforcement)

* Order Full Length, Cut to Fit and Use Remainder in Opposite Face

BILL OF MATERIAL
SOUTH EXTENSION

Bar	No.	Size	Length	Shape
a	164	#6	17'-0"	U
a1	210	#8	6'-4"	—
a2	105	#4	6'-0"	—
a3	52	#6	9'-6"	C
a4	24	#6	10'-0"	C
b	12	#4	14'-11"	—
b1	20	#4	33'-6"	—
b2	13	#4	22'-6"	—
b3	20	#4	11'-4"	—
b4	20	#4	13'-8"	—
b5	20	#4	13'-0"	—
b6	9	#4	9'-5"	—
b7	4	#4	19'-4"	—
b8	16	#4	3'-6"	—
d	54	#4	4'-4"	L
h6	9	#6	15'-8"	—
h10	92	#5	20'-11"	—
h11	88	#4	20'-9"	—
h12	88	#4	21'-6"	—
h13	8	#6	3'-10"	—
h14	8	#6	11'-8"	—
h15	8	#6	18'-8"	—
h16	96	#6	21'-0"	—
h17	10	#4	15'-5"	—
h18	10	#4	29'-2"	—
h20	44	#4	3'-0"	—
h21	44	#4	11'-4"	—
h22	27	#5	3'-8"	—
h23	4	#5	10'-10"	—
h24	17	#5	11'-4"	—
h25	2	#5	9'-1"	—
v	450	#5	7'-11"	—
v1	450	#5	3'-0"	—
v3	48	#6	6'-2"	—
v4	18	#6	8'-8"	—
v5	18	#6	5'-9"	—
v6	12	#6	7'-2"	—
Concrete Removal		Cu. Yd.	4.8	
Concrete Box Culverts		Cu. Yd.	167.3	
Reinforcement Bars		Pound	26,160	
Expansion Bolts 3/4"		Each	33	

NOTES:

Bars indicated thus, 2x4-#5 etc. indicates 2 lines of bars with 4 lengths per line.
See Sheet 6 of 7 for Bar Details.

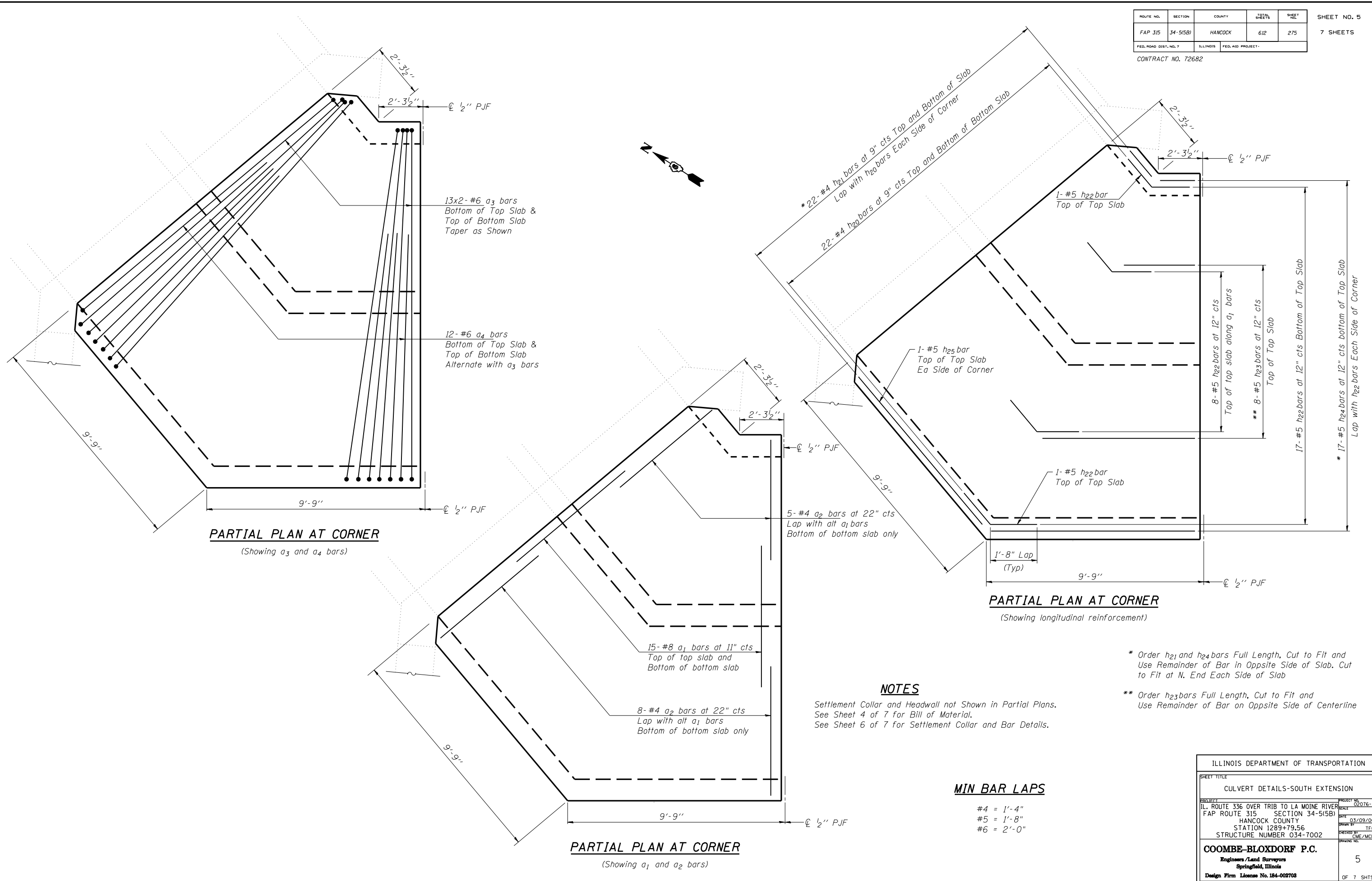
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PROJECT NO. 02076-3	DATE 03/09/06
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HANCOCK COUNTY	CHECKED BY CME/MCB
STATION 1289+79.56	DATE 03/09/06
STRUCTURE NUMBER 034-7002	SCALE AS SHOWN
COOMBE-BLOXDORF P.C. Engineers/Land Surveyors Springfield, Illinois	4
Design Firm License No. 184-002708	OF 7 SHTS

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FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 5
7 SHEETS

CONTRACT NO. 72682



PARTIAL PLAN AT CORNER
(Showing a_3 and a_4 bars)

PARTIAL PLAN AT CORNER
(Showing longitudinal reinforcement)

PARTIAL PLAN AT CORNER
(Showing a_1 and a_2 bars)

NOTES

Settlement Collar and Headwall not Shown in Partial Plans. See Sheet 4 of 7 for Bill of Material. See Sheet 6 of 7 for Settlement Collar and Bar Details.

* Order h_{21} and h_{24} bars Full Length, Cut to Fit and Use Remainder of Bar in Opposite Side of Slab. Cut to Fit at N. End Each Side of Slab

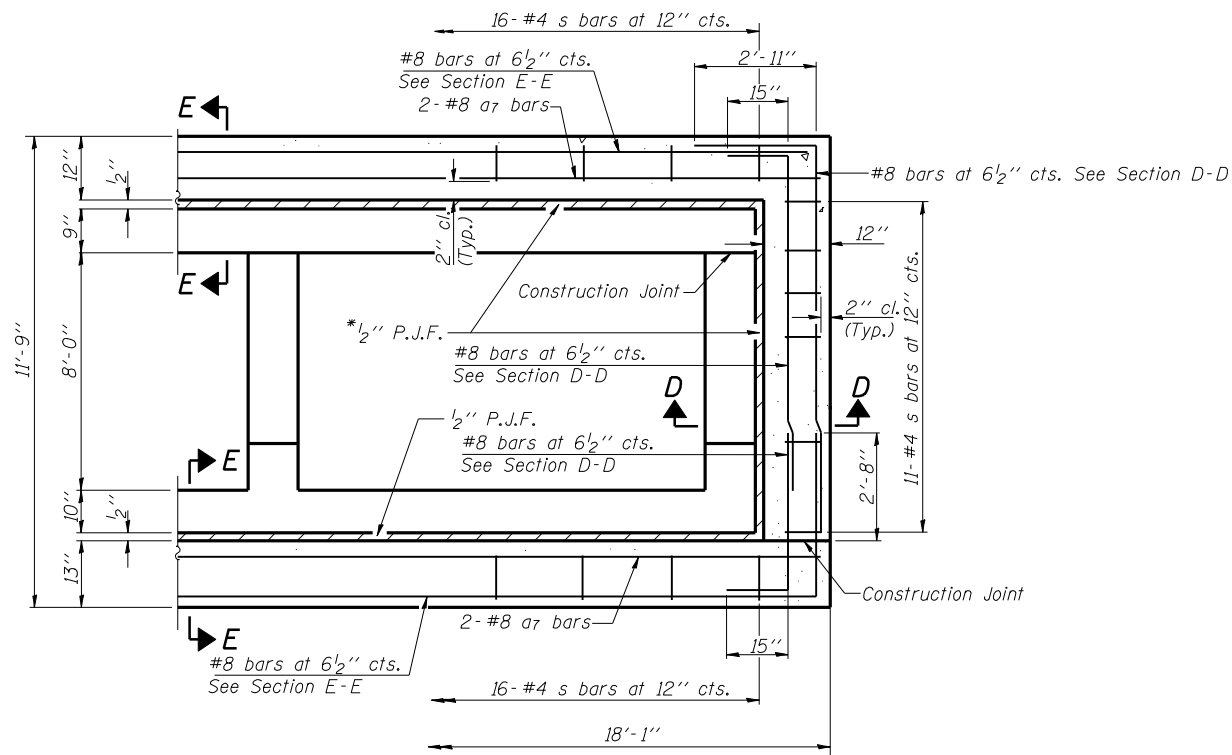
** Order h_{23} bars Full Length, Cut to Fit and Use Remainder of Bar on Opposite Side of Centerline

MIN BAR LAPS

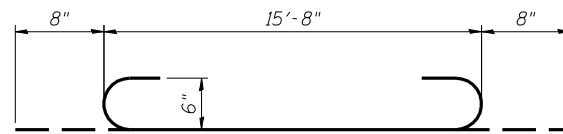
- #4 = 1'-4"
- #5 = 1'-8"
- #6 = 2'-0"

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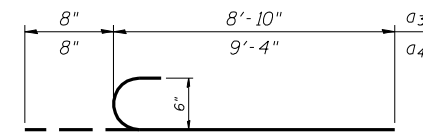
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DESIGNED BY CME/MCB	CHECKED BY TFG
COOMBE-BLOXDORF P.C. Engineers/Land Surveyors Springfield, Illinois	
Design Firm License No. 184-002708	5 OF 7 SHTS



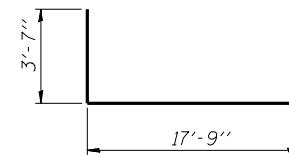
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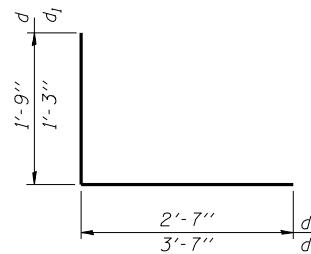
BAR a



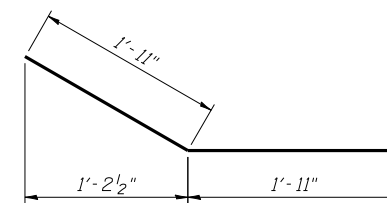
BARS a3 & a4



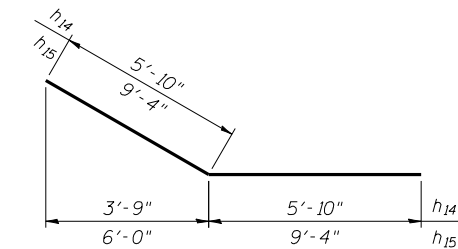
BAR a8



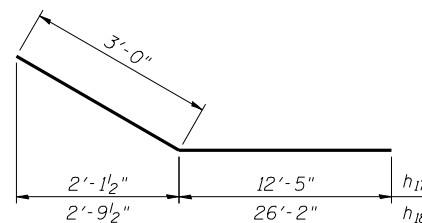
BARS d & d1



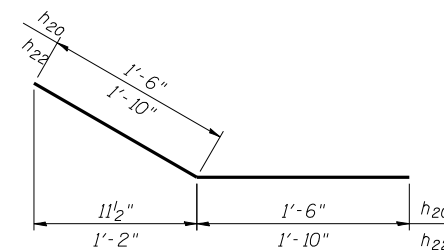
BAR h13



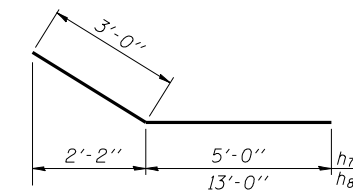
BARS h14 & h15



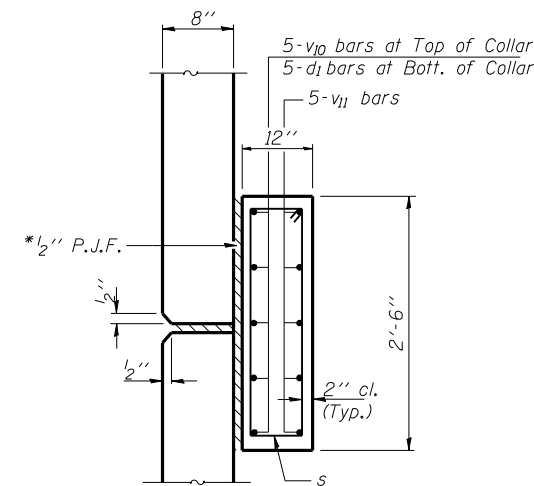
BARS h17 & h18



BARS h20 & h22

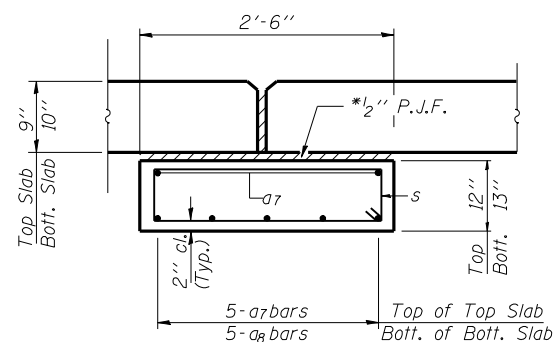


BARS h7 & h8



SECTION D-D

Showing Collar Reinforcement



SECTION E-E

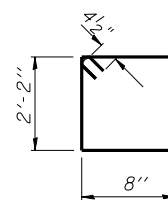
Showing Collar Reinforcement

**BILL OF MATERIAL
EACH COLLAR**

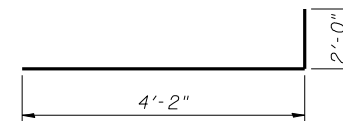
Bar	No.	Size	Length	Shape
a7	9	#8	17'-9"	—
a8	5	#8	24'-11"	—
d1	10	#8	4'-10"	J
s	54	#4	6'-5"	—
v10	10	#8	10'-3"	—
v11	10	#8	13'-2"	—
Concrete Box Culverts		Cu. Yd.	5.3	
Reinforcement Bars		Pound	1740	

NOTE: There are 3 collars at this structure:
1 at North extension-Stage 3
2 at South extension-Stage 2

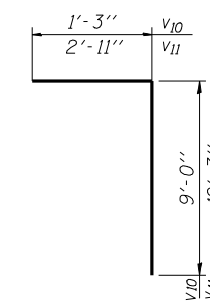
*Cost included with Concrete Box Culverts



BAR s



BAR v3



BARS v10 & v11

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Illinois Department of Transportation
Division of Highways
East District 6

SOIL BORING LOG

Page 1 of 1

Date 4/9/04

ROUTE FAP 302 DESCRIPTION 336 Section 5 Soil Survey LOGGED BY M. Tappan
(IL 336/ US 136)

SECTION 34-5 (5B) LOCATION SEC. 15, TWP. 5N, RNG. 5W, 4 PM

COUNTY HANCOCK DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO. Station	D E P T H S	B L O W S	U C S	M O I S T	Surface Water Elev. Stream Bed Elev.	D E P T H S	B L O W S	U C S	M O I S T
034-2515 Pr 1289+79.56					525.6 ft 525.3 ft				
BORING NO. 48 Station 1290+10 Offset 110.00H LT Ground Surface Elev. 527.6 ft					514.1 ft 520.6 ft 523.6 ft				
Gray Moist LOAM CLASSIFICATION 48-1					Limestone GRAVEL 567.10		7 9		
w/ Gray Wet Med to Coarse SAND Seam 3"	-1	1	0.6	20					
Dark Gray V. Moist	0	1	0.2	25					
Brown and Gray V. Moist SAND LOAM CLASSIFICATION 48-2	516.10 -19	0	0.4	16					
Free Water	0	0	0.2	21					
Gray Dirty Med SAND to Brown Dirty Angular GRAVEL	514.10 -15	0							
Brown Dirty Coarse Angular GRAVEL w/ interbedded SILTY CLAY Seams	1 2 3								
Gray Dirty Med Angular	-20	2							

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



Illinois Department of Transportation
Division of Highways
East District 6

SOIL BORING LOG

Page 1 of 1

Date 4/9/04

ROUTE FAP 302 DESCRIPTION 336 Section 5 Soil Survey LOGGED BY M. Tappan
(IL 336/ US 136)

SECTION 34-5 (5B) LOCATION SEC. 15, TWP. 5N, RNG. 5W, 4 PM

COUNTY HANCOCK DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO. Station	D E P T H S	B L O W S	U C S	M O I S T	Surface Water Elev. Stream Bed Elev.	D E P T H S	B L O W S	U C S	M O I S T
034-2515 Pr 1289+79.56					523.3 ft 523.0 ft				
BORING NO. 49 Station 1290+20 Offset 65.00H RT Ground Surface Elev. 524.1 ft					513.6 ft 520.1 ft				
Brown and Gray Moist LOAM Ref Classification 48-1					Gray to Brown Med SANDY GRAVEL (continued) 502.10				
Gray V. Moist LOAM Washed									
Gray Med SANDY GRAVEL	498.60	1	0.3	23					
Free Water	0	1	0.4	26					
Gray V. Moist SILTY CLAY LOAM w/ some Woody Organics	513.60 -10	1	0.4	28					
Gray to Brown Med SANDY GRAVEL	511.10 -16	1	0.4	31					
Gray Med Clean SAND	2 2 2								
Gray Med Clean SAND w/ some Med GRAVEL	2 2								

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



Illinois Department of Transportation
Division of Highways
East District 6

SOIL BORING LOG

Page 1 of 1

Date 4/9/04

ROUTE FAP 302 DESCRIPTION 336 Section 5 Soil Survey LOGGED BY M. Tappan
(IL 336/ US 136)

SECTION 34-5 (5B) LOCATION SEC. 15, TWP. 5N, RNG. 5W, 4 PM

COUNTY HANCOCK DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO. Station	D E P T H S	B L O W S	U C S	M O I S T	Surface Water Elev. Stream Bed Elev.	D E P T H S	B L O W S	U C S	M O I S T
034-2515 Pr 1289+79.56					517.9 ft 517.7 ft				
BORING NO. 49A Station 1290+80 Offset 110.00H RT Ground Surface Elev. 529.3 ft					509.3 ft 519.8 ft				
Brown Moist SILTY LOAM CLASSIFICATION 49A-1					Gray V. Moist SILTY CLAY LOAM CLASSIFICATION 49A-2 (continued) 502.30				
Gray Med to Coarse SAND w/ some Med GRAVEL									
Gray and Brown V. Moist	0	1	0.4	24					
Gray Med Angular GRAVEL	484.80 -10	1	0.4	28					
Free Water	0	0	0.3	28					
Gray V. Moist SILTY CLAY LOAM CLASSIFICATION 49A-2 w/ some Woody Organics	509.30 0	1	0.2	35					

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

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USER NAME: laughtinr1

ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET TITLE: BORING LOGS

PROJECT NO: 02076-1

IL. ROUTE 336 OVER TRIB TO LA MOINE RIVER
FAP ROUTE 315 SECTION 34-5(5B)
HANCOCK COUNTY
STATION 1289+79.56
STRUCTURE NUMBER 034-7002

DATE: 03/09/06
DRAWN BY: TFG
CHECKED BY: CME/MCB
DRAWING NO.

COOMBE-BLOXDORF P.C.
Engineers/Land Surveyors
Springfield, Illinois

Design Firm License No. 184-002708

7
OF 7 SHTS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 315	34-5(B)	HANCOCK	612	278
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 72682				

SHEET NO. 1
8 SHEETS

WATERWAY INFORMATION

Drainage Area = 1.70 Sq. Mi. Low Grade Elev. 542.05 @ Sta. 1323+00.00

Flood	Freq. Yr.	C.F.S.	Opening Sq. Ft.	Nat. H.W.E.	Head - Ft.	Headwater EL.
Design	50	1517	167.04	163.20	528.2	0.15
Base	100	1818	168.64	164.80	528.3	1.19
Overtopping	-	-	-	-	-	-
Max. Calc.	500	2529	173.44	169.60	528.6	4.33

GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of AASHTO M31 or M322 Grade 60.
2. For backfilling and embankment, see Standard Specifications.
3. Layout of Slope Protection System may be varied in the field to suit ground conditions as directed by the Engineer.
4. Exposed edges shall have standard 3/4" chamfer unless otherwise noted.
5. All construction joints shall be bonded.
6. See Roadway Plans for Riprap Layout and Quantity.
7. Removal and replacement of weak soil with Rockfill-Foundation may be required beneath the culvert. The Engineer will determine the required depth following excavation to plan grade.
8. Expansion bolts shall be 3/4" diameter hooked bolts and shall conform to the requirements of Article 1006.09 of the Standard Specifications. Hooked bolts shall extend a minimum of 9" into new concrete.
9. Precast alternate is not allowed.
10. Existing culvert shall be cleaned out prior to adding proposed extensions. Cost included in Concrete Box Culverts.

INDEX OF SHEETS

1. General Plan and Elevation
2. Elevation & Plan-N. Extension
3. Culvert Details-N. Extension
4. Elevation & Plan-S. Extension
5. Culvert Details-S. Extension
6. Culvert Details-S. Extension
7. Settlement Collar & Barrel Details
8. Boring Logs

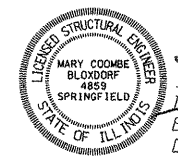
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Expansion Bolts 3/4"	Each	82
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	498.1
Reinforcement Bars	Pound	94,140
** Rockfill-Foundation	Ton	160

**Quantity is estimated

APPROVED
For Structural Adequacy Only

Ralph E. Anderson
Engineer of Bridges & Structures



Mary Coombe Bloxdorf
ILLINOIS STRUCTURAL NO. 4859
EXPIRES: 11/30/06
DATE: 5-3-06

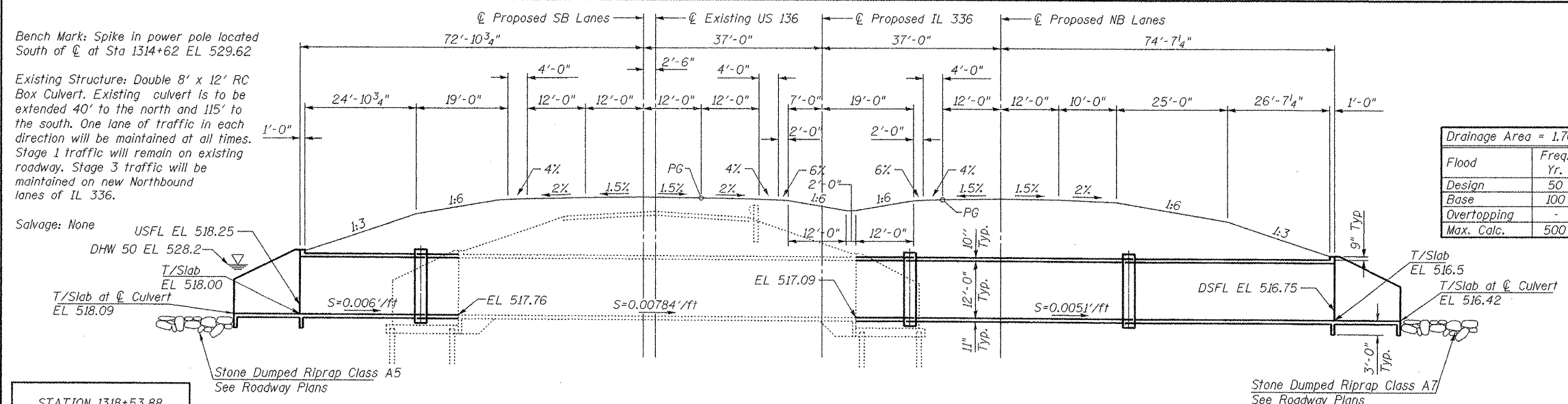
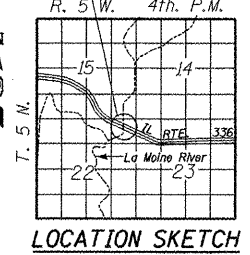
ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION

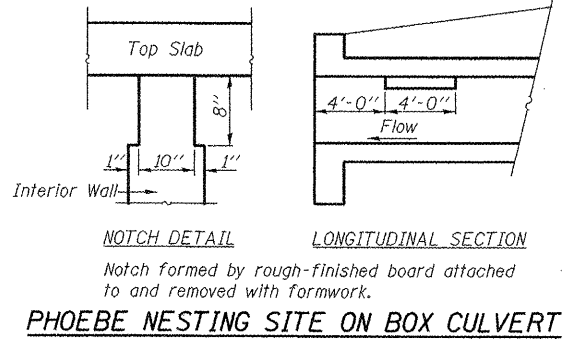
PROJECT: IL. RTE. 336 OVER TRIB TO LA MOINE RIVER
FAP ROUTE 315 SECTION 34-5 (5B)
HANCOCK COUNTY
STATION 1318+53.88
STRUCTURE NUMBER 034-7001

COOMBE-BLOXDORF P.C.
Engineers / Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002703

1 OF 8 SHTS



LONGITUDINAL SECTION
Dimensions at Right angles to IL 336

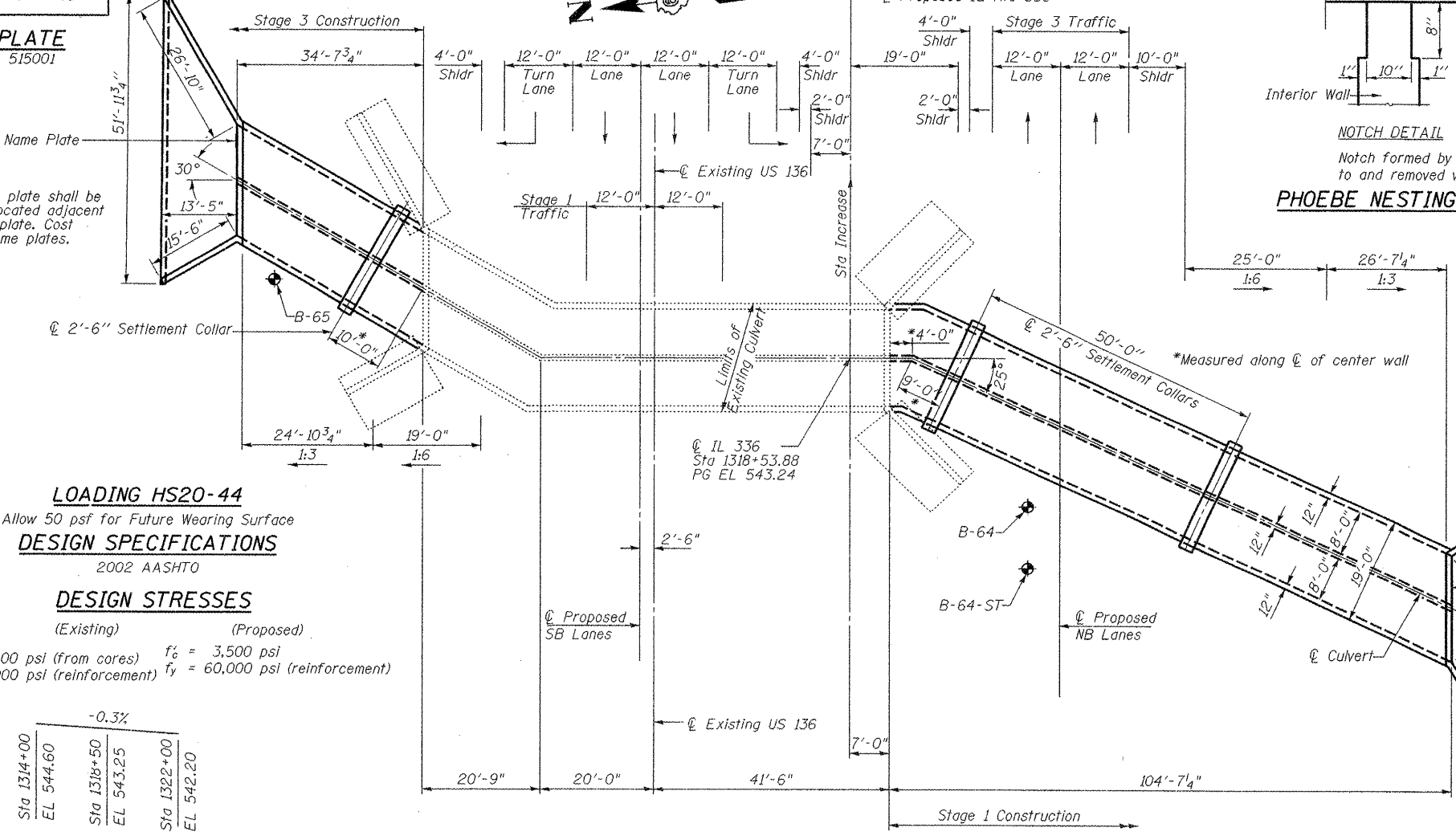


PHOEBE NESTING SITE ON BOX CULVERT

STATION 1318+53.88
REBUILT 20... BY
STATE OF ILLINOIS
FAP RT 315 SEC 34-5 (5B)
LOADING HS20
STR. NO. 034-7001

NAME PLATE
See Std. 515001

NOTE:
Existing name plate shall be
cleaned and located adjacent
to new name plate. Cost
included in name plates.



PLAN

LOADING HS20-44
Allow 50 psf for Future Wearing Surface
DESIGN SPECIFICATIONS
2002 AASHTO

DESIGN STRESSES

(Existing) (Proposed)
f_c = 5,500 psi (from cores) f_c = 3,500 psi
f_y = 60,000 psi (reinforcement) f_y = 60,000 psi (reinforcement)

Station	Elevation
Sta 1314+00	EL 544.60
Sta 1318+50	EL 543.25
Sta 1322+00	EL 542.20

PROFILE GRADE
(along median edge of pavement)

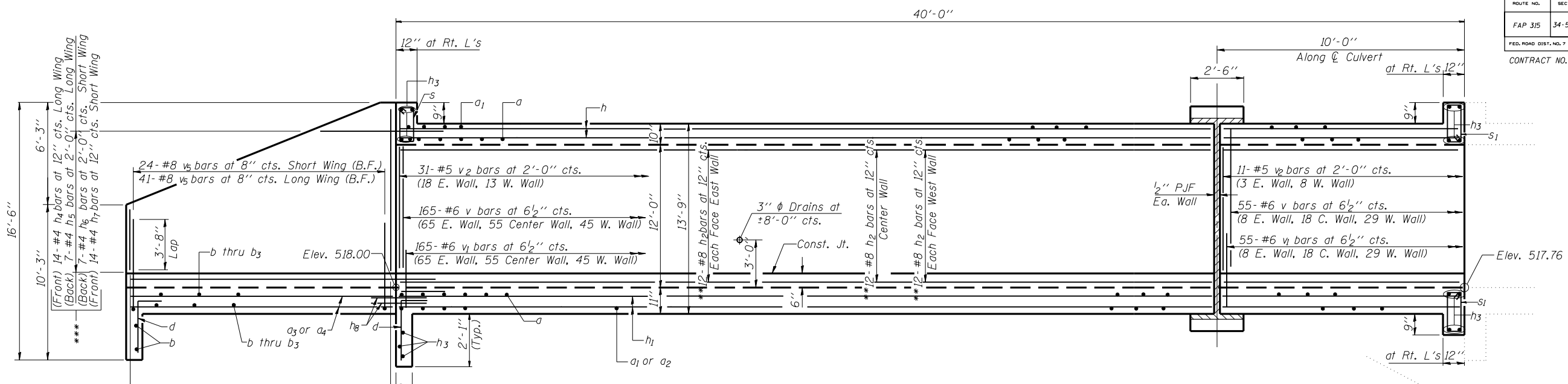
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GPE

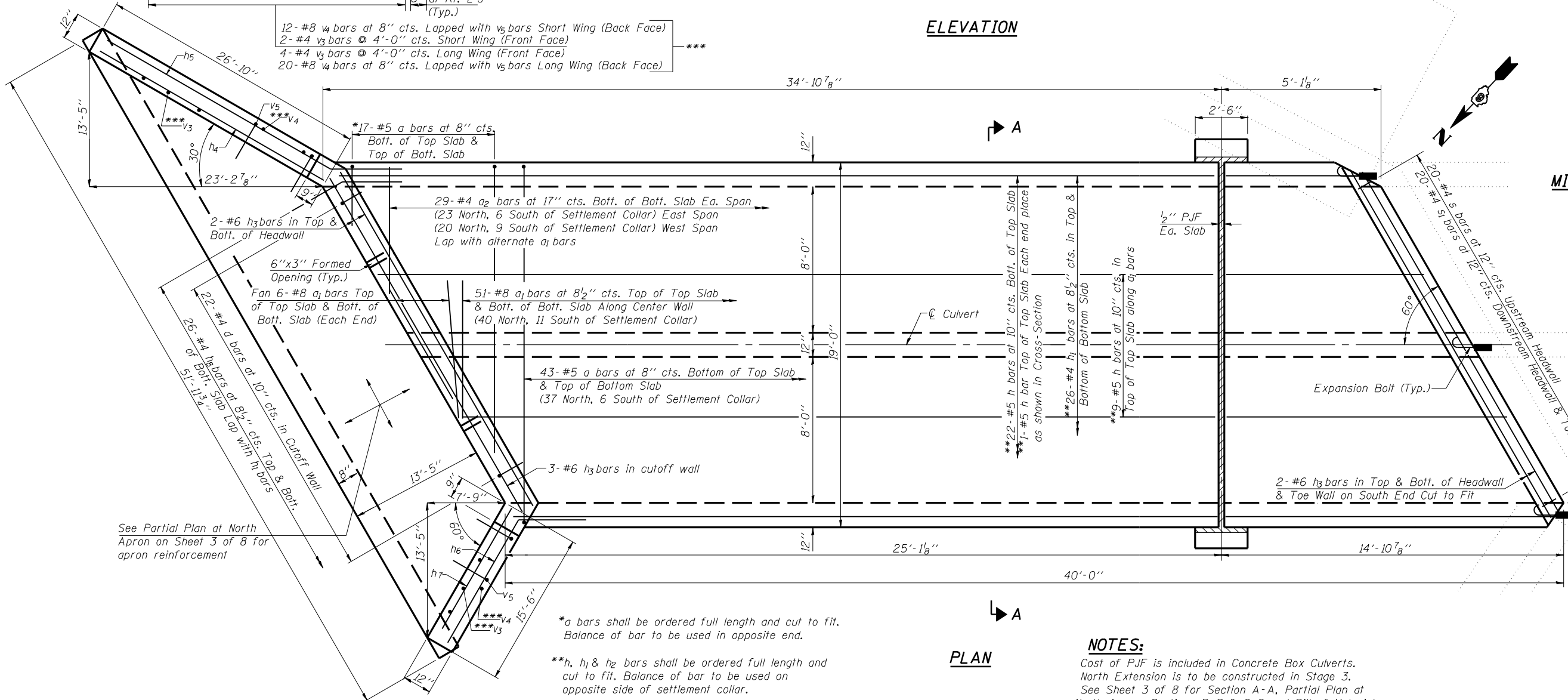
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 315	34-5(5B)	HANCOCK	612	279
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 2
8 SHEETS

CONTRACT NO. 72682



ELEVATION



PLAN

MIN. BAR LAPS
#4 = 1'-4"
#8 = 3'-8"

NOTES:

Cost of P.J.F is included in Concrete Box Culverts.
North Extension is to be constructed in Stage 3.
See Sheet 3 of 8 for Section A-A, Partial Plan at North Apron, Sections B-B & C-C and Bill of Material.
See Sheet 7 of 8 for Bar Details and Settlement Collar Details.
See Section A-A on Sheet 3 of 8 for placement of v_1 , v_2 and v_3 bars.

*a bars shall be ordered full length and cut to fit. Balance of bar to be used in opposite end.
**h, h_1 & h_2 bars shall be ordered full length and cut to fit. Balance of bar to be used on opposite side of settlement collar.
*** v_3 and v_4 bars shall be ordered full length and cut to fit. Balance of bar to be used in opposite end of wingwall. Horizontal wingwall bars shall be cut to fit.

DATE: 5/1/2006
FILE NAME: \\s02\p02\proj\1318\53\888\proj\034-7001\sr1-02\dwg\plan-n-ext.dwg
PLOT SCALE: 0.250000 1" = 16'-0"
USER NAME: laughtlinr1

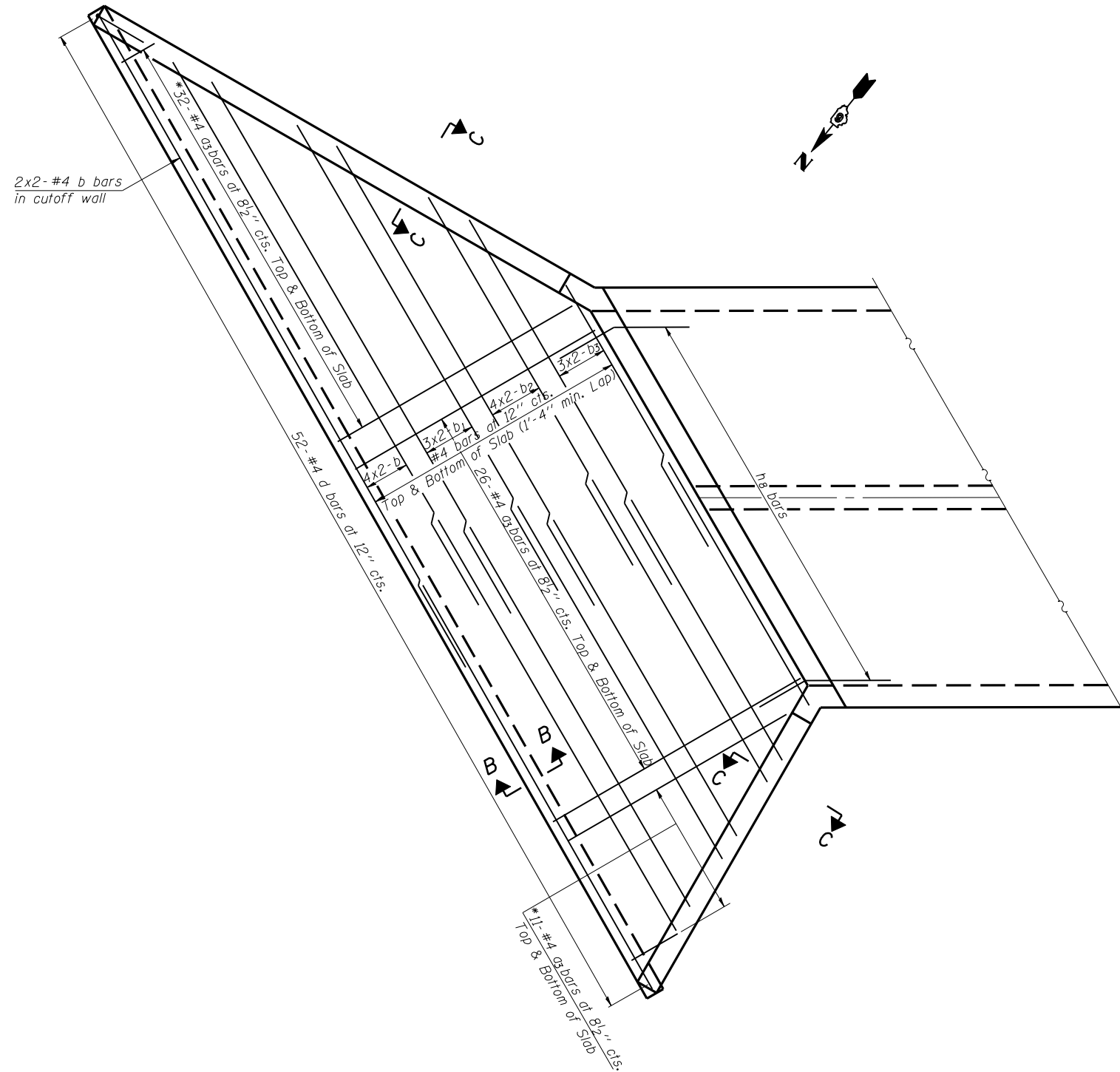
ILLINOIS DEPARTMENT OF TRANSPORTATION			
SHEET TITLE ELEVATION & PLAN-NORTH EXTENSION			
PROJECT IL. RTE. 336 OVER TRIB TO LA MOINE RIVER	PROJECT NO. 02076-4	SCALE AS SHOWN	
FAP ROUTE 315 SECTION 34-5 (5B)	HANCOCK COUNTY	DATE 03/20/06	DRAWN BY TFG
STATION 1318+53.88	STRUCTURE NUMBER 034-7001	CHECKED BY CME/MCB	DATE 03/20/06
COOMBE-BLOXDORF P.C. Engineers/Land Surveyors Springfield, Illinois			2
Design Firm License No. 184-002708			OF 8 SHTS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 315	34-5(5B)	HANCOCK	612	280
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

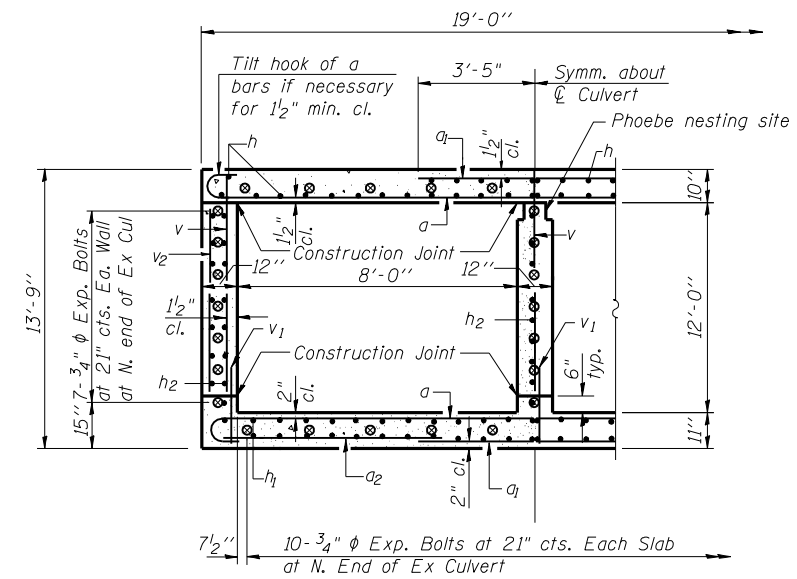
SHEET NO. 3
8 SHEETS

CONTRACT NO. 72682

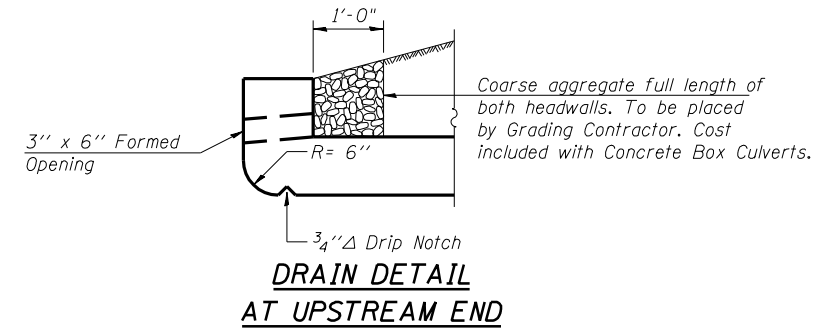
*a₃ bars shall be ordered full length and cut to fit. Balance of bar to be used in opposite face of slab.



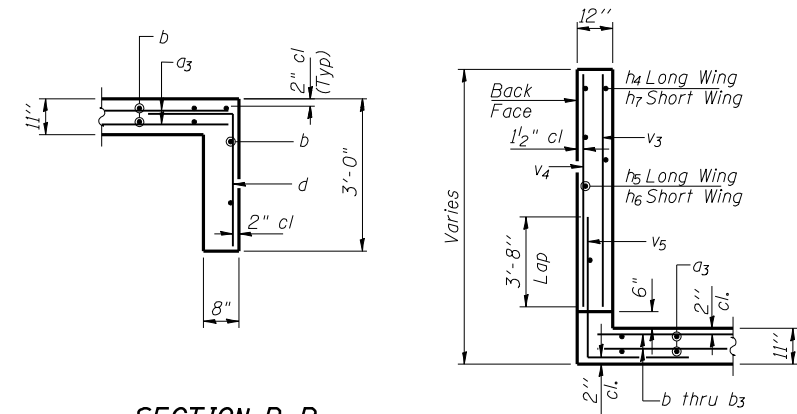
PARTIAL PLAN AT NORTH APRON
(Showing apron and cutoff wall reinforcement)



SECTION A-A



DRAIN DETAIL AT UPSTREAM END



SECTION B-B

SECTION C-C

BILL OF MATERIAL NORTH EXTENSION

Bar	No.	Size	Length	Shape
a	120	#5	19'-2"	U
a ₁	126	#8	6'-10"	—
a ₂	58	#4	7'-3"	—
a ₃	95	#4	12'-11"	—
b	20	#4	26'-6"	—
b ₁	12	#4	21'-11"	—
b ₂	16	#4	18'-6"	—
b ₃	12	#4	13'-10"	—
d	74	#4	4'-4"	L
h	33	#5	39'-4"	—
h ₁	52	#4	39'-4"	—
h ₂	60	#8	39'-4"	—
h ₃	15	#6	20'-2"	—
h ₄	14	#4	26'-6"	—
h ₅	7	#4	29'-10"	—
h ₆	7	#4	18'-0"	—
h ₇	14	#4	15'-2"	—
h ₈	52	#4	3'-4"	—
s	20	#4	4'-6"	□
s ₁	40	#4	4'-8"	□
v	220	#6	11'-11"	—
v ₁	220	#6	2'-6"	—
v ₂	42	#5	11'-2"	—
v ₃	6	#4	19'-3"	—
v ₄	32	#8	19'-3"	—
v ₅	65	#8	8'-9"	—
Concrete Box Culverts			Cu. Yd.	142.3
Reinforcement Bars			Pound	25,740
3/4" φ Expansion Bolts			Each	41

MIN. BAR LAPS

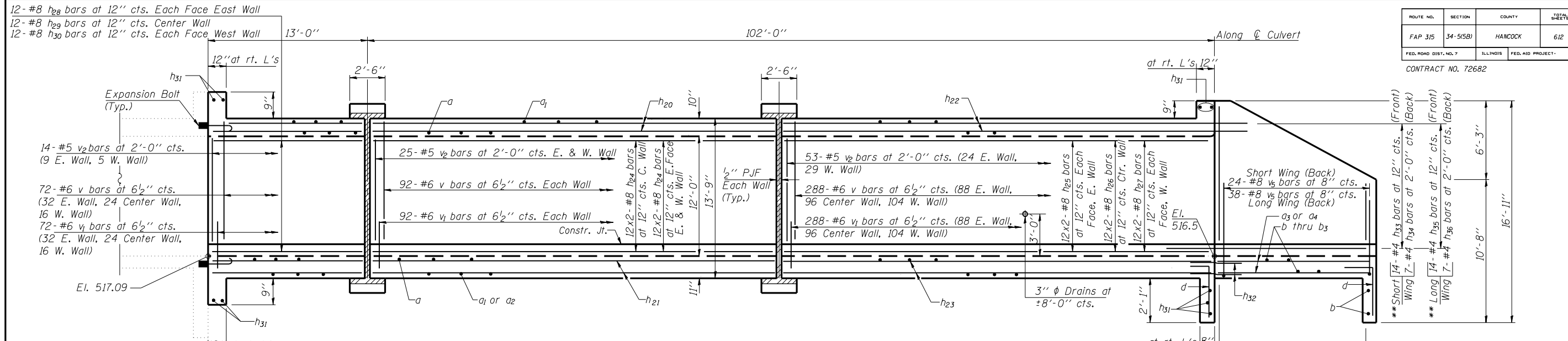
#4 = 1'-4"

ILLINOIS DEPARTMENT OF TRANSPORTATION	
SHEET TITLE CULVERT DETAILS-N. EXTENSION	
PROJECT IL. RTE. 336 OVER TRIB TO LA MOINE RIVER	PROJECT NO. 02076-4
FAP ROUTE 315 SECTION 34-5 (5B)	SCALE AS SHOWN
HANCOCK COUNTY	DATE 03/20/06
STATION 1318+53.88	DRAWN BY TFG
STRUCTURE NUMBER 034-7001	CHECKED BY CME/MCB
COOMBE-BLOXDORF P.C. Engineers/Land Surveyors Springfield, Illinois	3
Design Firm License No. 184-002708	OF 8 SHTS

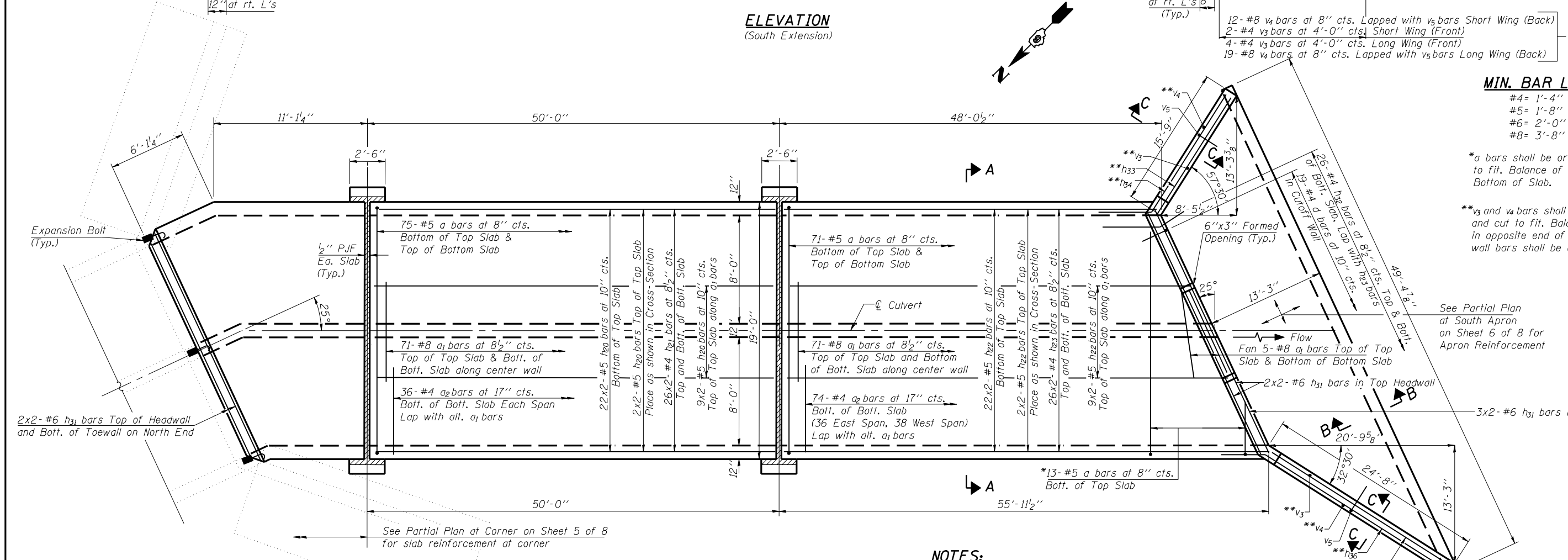
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 315	34-5(5B)	HANCOCK	612	281
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

CONTRACT NO. 72682



ELEVATION
(South Extension)



PLAN

MIN. BAR LAPS

- #4 = 1'-4"
- #5 = 1'-8"
- #6 = 2'-0"
- #8 = 3'-8"

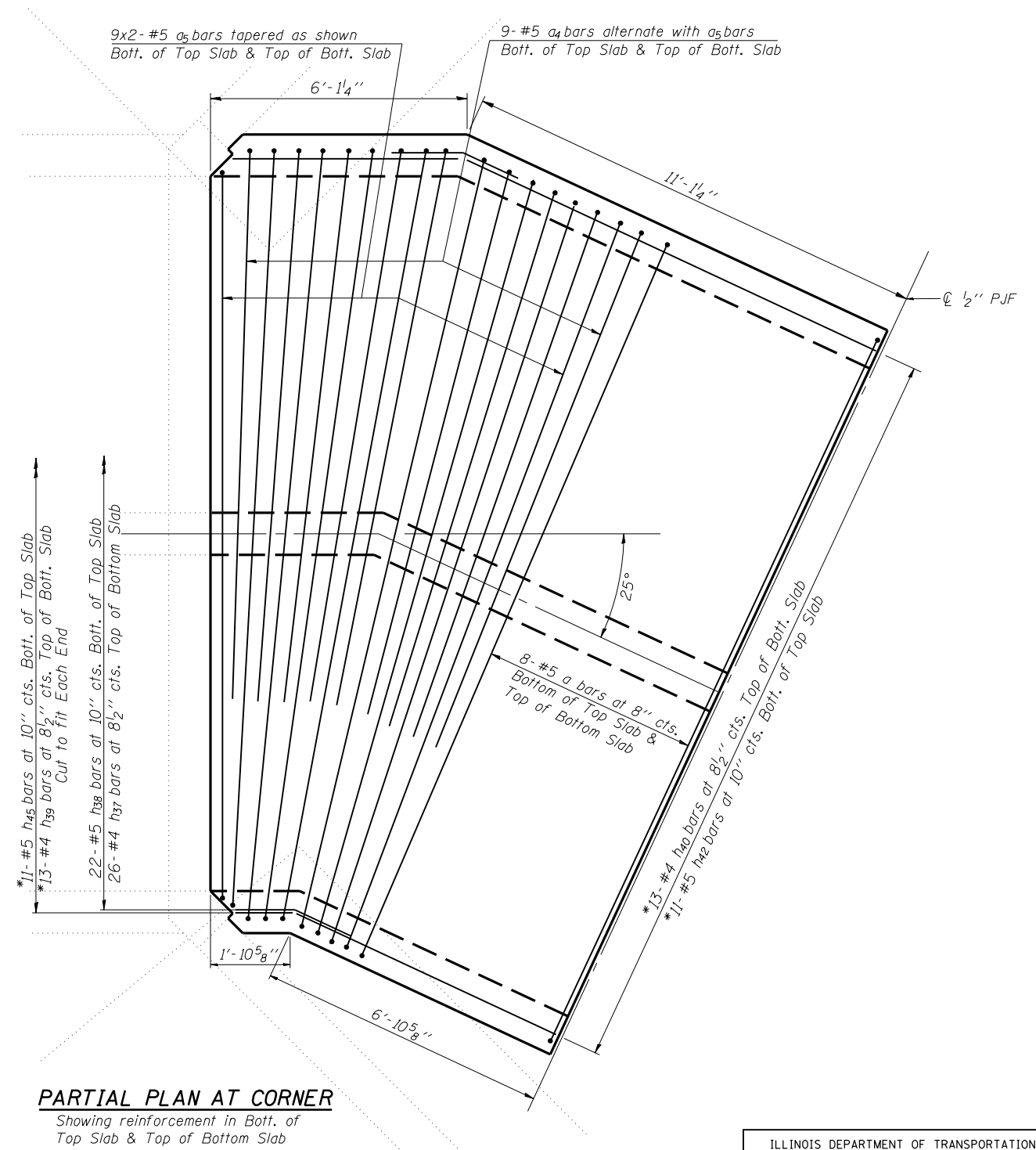
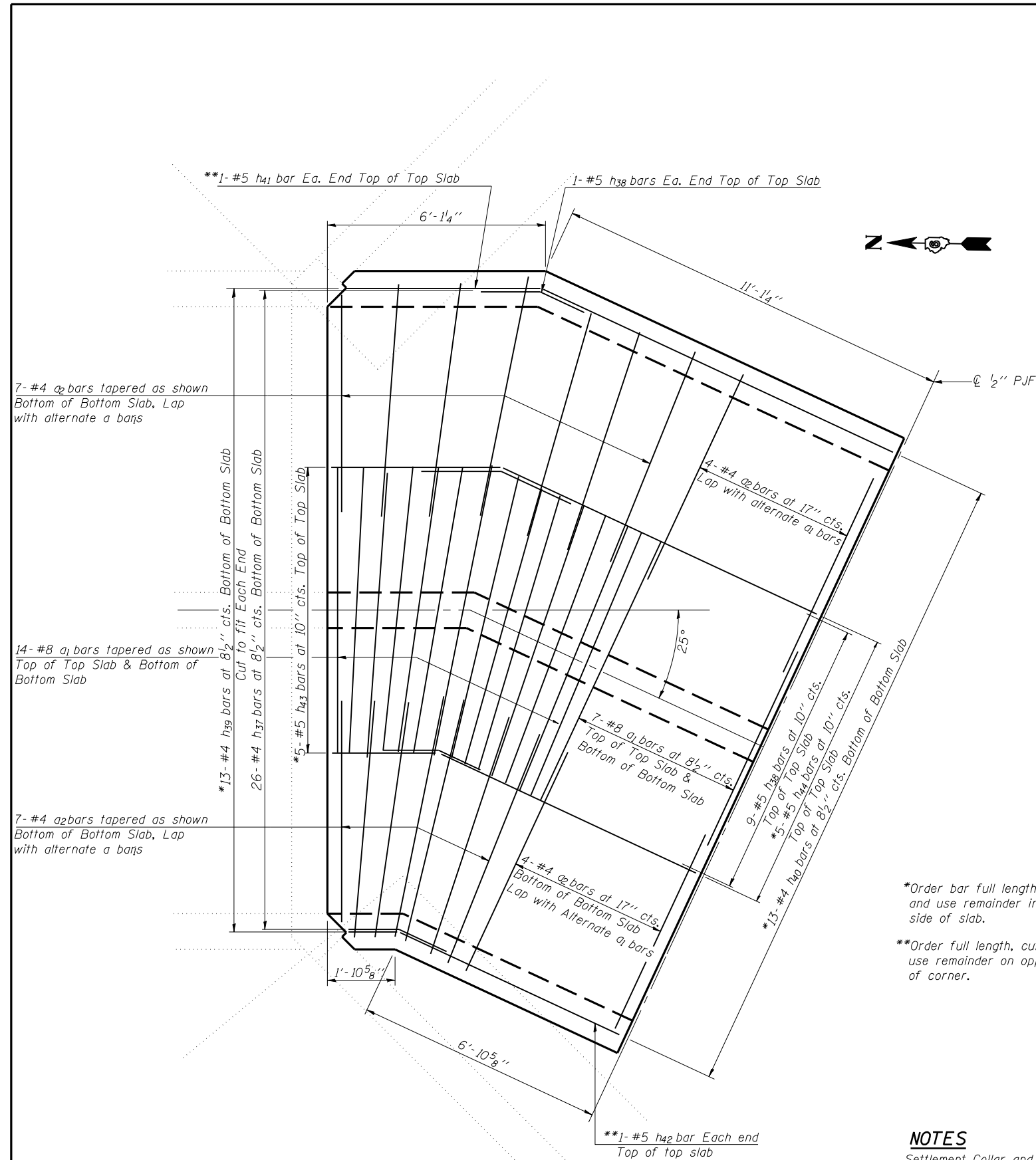
*a bars shall be ordered full length and cut to fit. Balance of bar to be used in Top of Bottom of Slab.

**v3 and v4 bars shall be ordered full length and cut to fit. Balance of bar to be used in opposite end of wing. Horizontal wing-wall bars shall be cut to fit.

NOTES:
 Cost of P.J.F. is included in Concrete Box Culverts.
 South Extension is to be constructed in Stage 1.
 See Sheet 5 of 8 for Partial Plan at Corner.
 See Sheet 6 of 8 for Sections A-A, B-B and C-C.
 Partial Plan at South Apron and Bill of Material.
 See Sheet 7 of 8 for Bar Details and Settlement Collar Details.
 See Section A-A on Sheet 6 of 8 for placement of v, v and v bars.
 Bar indicated thus 22x2-#5 bars indicates 22 lines of bars with 2 lengths per line.
 Place at least one 3" φ drain in each exterior wall segment.

ILLINOIS DEPARTMENT OF TRANSPORTATION	
SHEET TITLE ELEVATION & PLAN-SOUTH EXTENSION	
PROJECT IL. RTE. 336 OVER TRIB TO LA MOINE RIVER	PROJECT NO. 02076-4
FAP ROUTE 315 SECTION 34-5 (5B)	SCALE AS SHOWN
HANCOCK COUNTY	DATE 04/11/06
STATION 1318+53.88	DRAWN BY TFG
STRUCTURE NUMBER 034-7001	CHECKED BY CME/MCB
COOMBE-BLOXDORF P.C. Engineers/Land Surveyors Springfield, Illinois	
Design Firm License No. 184-002708	4 OF 8 SHTS

PLOT DATE = 5/1/2006
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NOTES
 Settlement Collar and Headwall not shown in Partial Plans.
 See Sheet 6 of 8 for Bill of Material.
 See Sheet 7 of 8 for Settlement Collar and Bar Details.

MIN. BAR LAPS

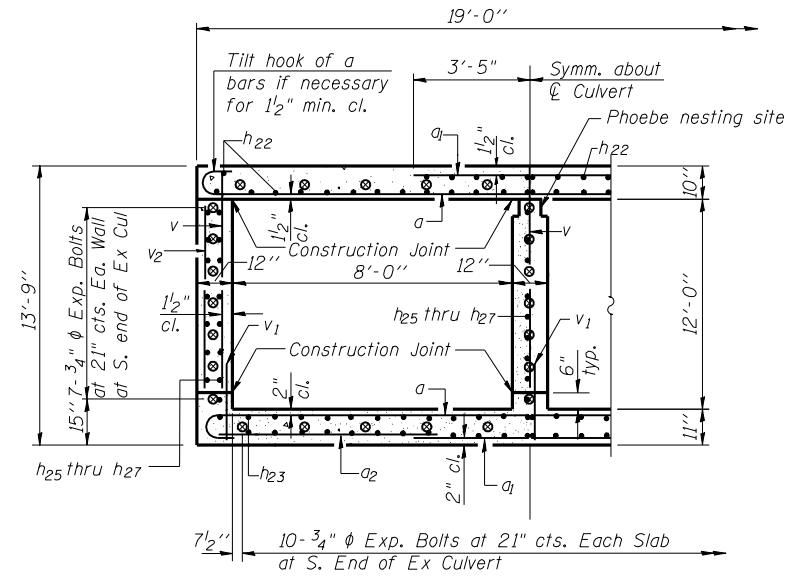
- #4 = 1'-4"
- #5 = 1'-8"
- #6 = 2'-0"

PLT DATE = 5/1/2006
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 USER NAME = laughlinr

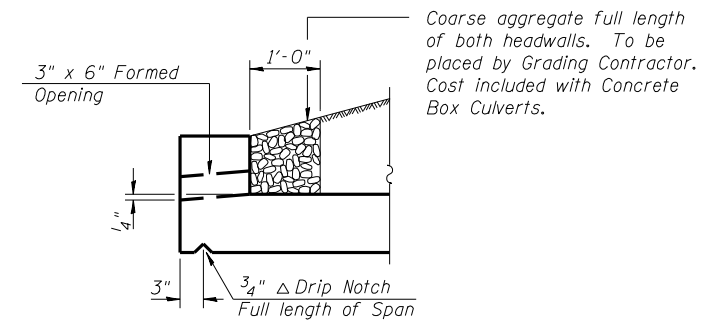
ILLINOIS DEPARTMENT OF TRANSPORTATION	
SHEET TITLE CULVERT DETAILS-S. EXTENSION	
PROJECT IL. RTE. 336 OVER TRIB TO LA MOINE RIVER	PROJECT NO. 02076-4
FAP ROUTE 315 SECTION 34-5 (5B)	SCALE AS SHOWN
HANCOCK COUNTY	DATE 03/20/06
STATION 1318+53.88	DRAWN BY TFG
STRUCTURE NUMBER 034-7001	CHECKED BY CME/MCB
COOMBE-BLOXDORF P.C. Engineers/Land Surveyors Springfield, Illinois	DRAWING NO. 5
Design Firm License No. 184-002708	OF 8 SHTS

NOTES:

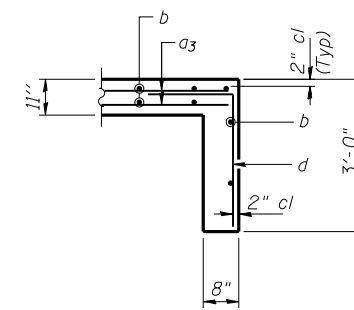
Bars indicated thus, 2x4-#5 etc. indicates 2 lines of bars with 4 lengths per line.
See Sheet 7 of 8 for Bar Details.



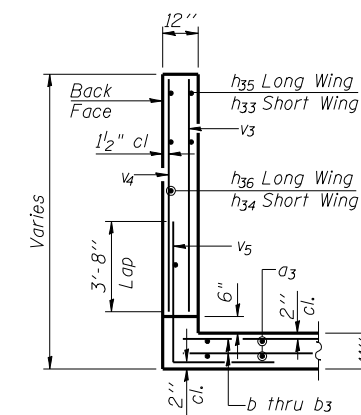
SECTION A-A



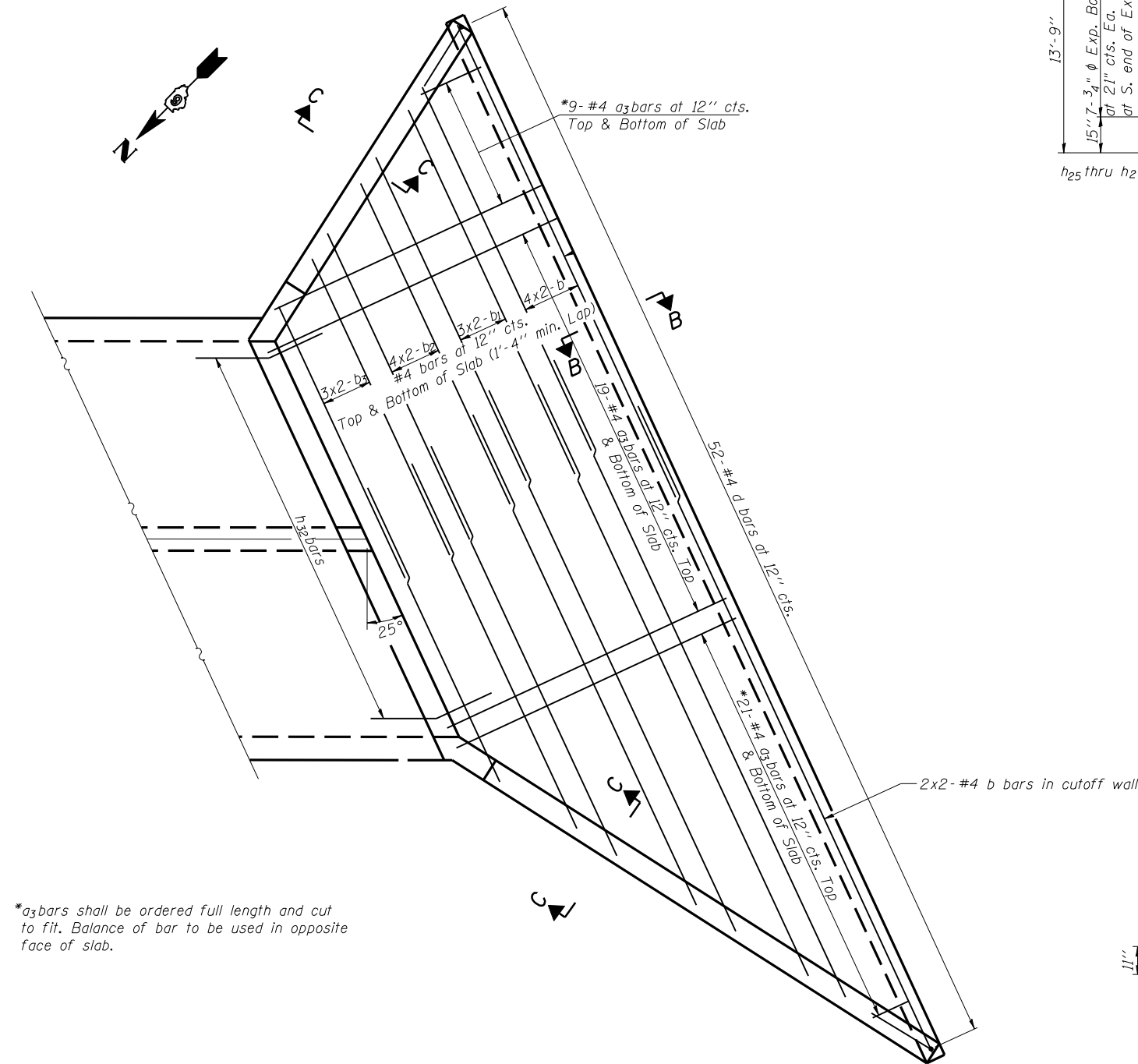
DRAIN DETAIL AT DOWNSTREAM END



SECTION B-B



SECTION C-C



PARTIAL PLAN AT SOUTH APRON
(Showing apron and cutoff wall reinforcement)

BILL OF MATERIAL SOUTH EXTENSION

Bar	No.	Size	Length	Shape
a	321	#5	19'-2"	U
a1	336	#8	6'-10"	—
a2	168	#4	7'-3"	—
a3	68	#4	12'-11"	—
a4	18	#4	14'-5"	U
a5	36	#5	10'-9"	U
b	20	#4	26'-6"	—
b1	12	#4	21'-11"	—
b2	16	#4	18'-6"	—
b3	12	#4	13'-10"	—
d	71	#4	4'-4"	L
h20	66	#5	25'-8"	—
h21	104	#4	25'-8"	—
h22	66	#5	28'-8"	—
h23	52	#4	28'-8"	—
h24	120	#8	26'-8"	—
h25	48	#8	25'-8"	—
h26	24	#8	27'-8"	—
h27	48	#8	29'-8"	—
h28	24	#8	17'-4"	—
h29	12	#8	12'-9"	—
h30	24	#8	8'-2"	—
h31	18	#6	10'-11"	—
h32	52	#4	3'-4"	—
h33	14	#4	15'-4"	—
h34	7	#4	18'-6"	—
h35	14	#4	24'-4"	—
h36	7	#4	27'-6"	—
h37	52	#4	3'-0"	—
h38	33	#5	3'-8"	—
h39	26	#4	7'-3"	—
h40	26	#4	17'-3"	—
h41	1	#5	7'-7"	—
h42	12	#5	17'-3"	—
h43	5	#5	7'-9"	—
h44	5	#5	16'-8"	—
h45	11	#5	7'-3"	—
v	636	#6	11'-11"	—
v1	636	#6	2'-6"	—
v2	117	#5	11'-2"	—
v3	6	#4	19'-3"	—
v4	31	#8	19'-3"	—
v5	62	#8	8'-9"	—
Concrete Box Culverts		Cu. Yd.	336.0	
Reinforcement Bars		Pound	61,980	
3/4" φ Expansion Bolts		Each	41	

ILLINOIS DEPARTMENT OF TRANSPORTATION

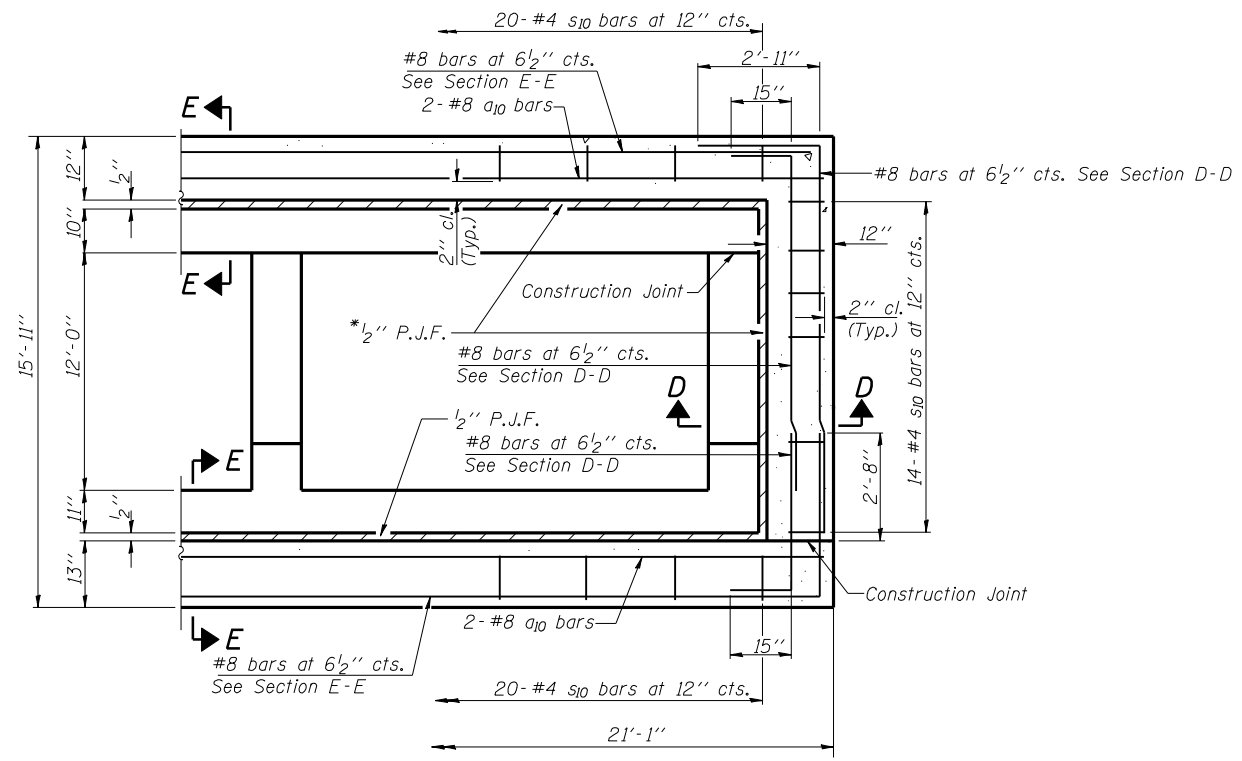
SHEET TITLE: CULVERT DETAILS-S. EXTENSION

PROJECT: IL. RTE. 336 OVER TRIB TO LA MOINE RIVER
FAP ROUTE 315 SECTION 34-5 (5B)
HANCOCK COUNTY
STATION 1318+53.88
STRUCTURE NUMBER 034-7001

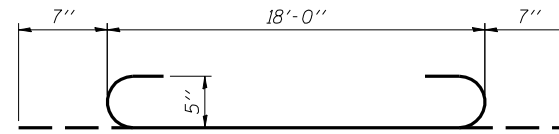
PROJECT NO. 02076-4
DATE 03/20/06
DRAWN BY TFG
CHECKED BY CME/MCB
DATE

COOMBE-BLOXDORF P.C.
Engineers/Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002708

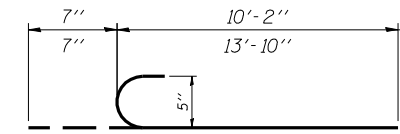
6
OF 8 SHEETS



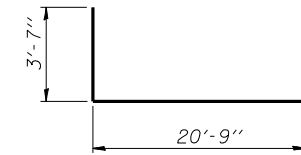
SECTION THRU BOX AT COLLAR



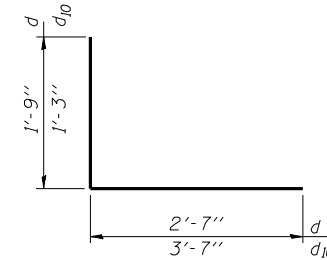
BAR a



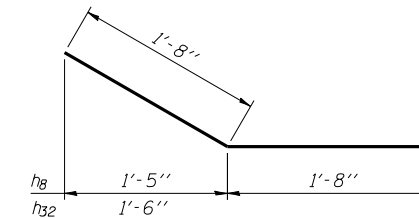
BARS a5 & a6



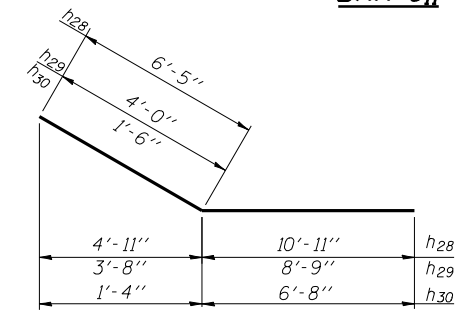
BAR a11



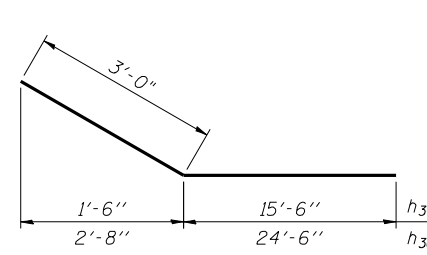
BARS d & d10



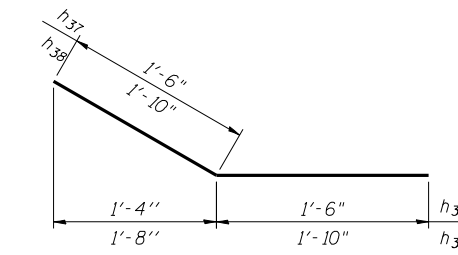
BARS h8 & h32



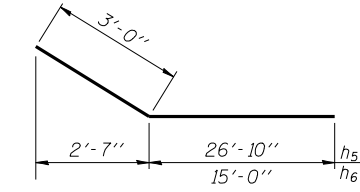
BARS h28, h29 & h30



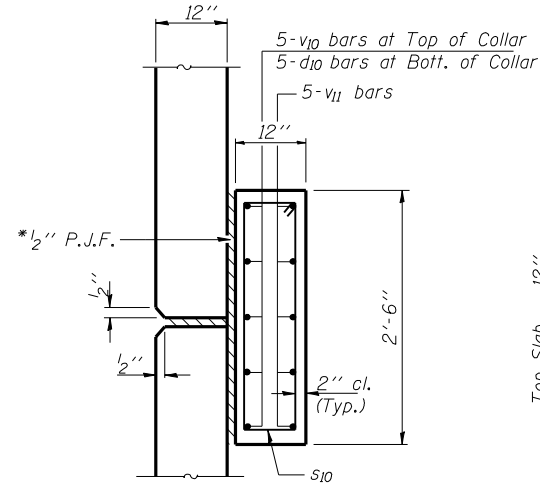
BARS h34 & h35



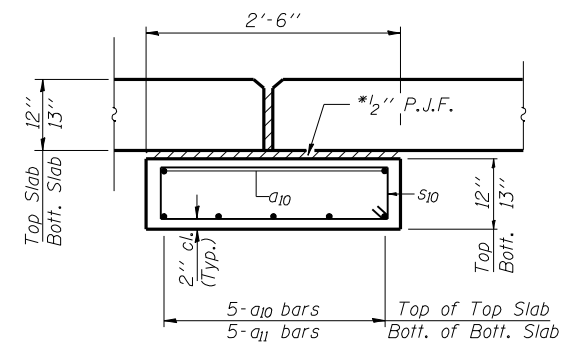
BARS h37 & h38



BARS h5 & h6



SECTION D-D
Showing Collar Reinforcement



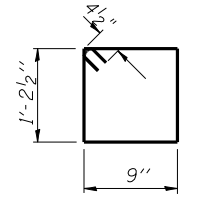
SECTION E-E
Showing Collar Reinforcement

BILL OF MATERIAL
EACH COLLAR

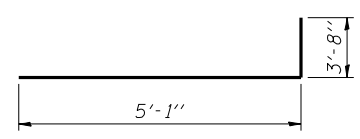
Bar	No.	Size	Length	Shape
a10	9	#8	20'-9"	—
a11	5	#8	27'-11"	—
d10	10	#8	4'-10"	└
s10	68	#4	6'-5"	—
v10	10	#8	14'-5"	—
v11	10	#8	17'-4"	—
Concrete Box Culverts		Cu. Yd.	6.6	
Reinforcement Bars		Pound	2,140	

*Cost included with Concrete Box Culverts

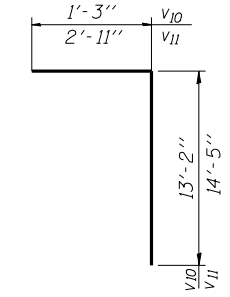
NOTES: There are 3 collars at this structure:
1 at North extension-Stage 3
2 at South extension-Stage 1
See Sheet 1 of 8 for locations



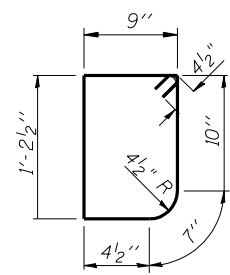
BAR s1



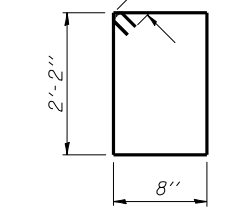
BAR v5



BARS v10 & v11



BAR s



BAR s10

ILLINOIS DEPARTMENT OF TRANSPORTATION	
SHEET TITLE	SETTLEMENT COLLAR DETAILS & BAR DETAILS
PROJECT	IL. RTE. 336 OVER TRIB TO LA MOINE RIVER
FAP ROUTE	315 SECTION 34-5 (5B)
COUNTY	HANCOCK COUNTY
STATION	1318+53.88
STRUCTURE NUMBER	034-7001
ENGINEER	COOMBE-BLOXDORF P.C.
DESIGNER	Engineers/Land Surveyors
LOCATION	Springfield, Illinois
DESIGN FIRM LICENSE NO.	184-002708
PROJECT NO.	02076-4
DATE	03/20/06
DRAWN BY	TFG
CHECKED BY	CME/MCB
DRAWING NO.	7
OF 8 SHTS	

PLOT DATE = 5/1/2006
 FILE NAME = C:\p05058\502\06\final\box\collar\collar-bar-rein-ext.dgn
 PLOT SCALE = 0.00588 1" = 1'-0"
 USER NAME = laughtlinr1

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 315	34-5(5B)	HANCOCK	6/2	285
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

SHEET NO. 8
8 SHEETS

CONTRACT NO. 72682



Illinois Department of Transportation
Division of Highways
East District 6

SOIL BORING LOG

Page 1 of 1

Date 4/12/04

ROUTE FAP 302 DESCRIPTION 336 Section 5 Soil Survey Tributary to Lamoine River LOGGED BY M. Tappan
(IL 336/ US 136)
SECTION 34-5 (5B) LOCATION SEC. 22, TWP. 5N, RNG. 5W, 4 PM
COUNTY HANCOCK DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO.	Station	BORING NO.	Station	Offset	Ground Surface Elev.	D	B	U	M	Surface Water Elev.	D	B	U	M
034-2516 Pr	1318+53.88	64	1318+25	30.00H RT	524.7	(ft)	/6"	(tsf)	(%)	ft	(ft)	/6"	(tsf)	(%)
Gray and Brown Moist CLAY LOAM CLASSIFICATION 64-1														
Surface Water Elev. 517.3 ft														
Stream Bed Elev. 517.2 ft														
Groundwater Elev.: First Encounter 511.7 ft Upon Completion Washed ft After 7 D. Hrs. 519.2 ft														
Gray Med to Coarse SAND w/ some Med GRAVEL														
502.20														
Olive Gray V Moist LOAM w/ interbedded Med to Coarse SAND Seams														
1														
2 0.6 16														
3 B														
Gray														
1														
2 0.7 19														
2 B														
Light Olive Gray Moist LOAM to SAND LOAM w/ interbedded Med to Coarse SAND														
514.70 -10														
2 0.7 29														
2 B														
Gray V. Moist CLAY LOAM CLASSIFICATION 64-2														
494.70 -30														
1 0.2 19														
1 B														
Gray Med to Coarse SANDY GRAVEL														
0														
1 0.3 26														
2 B														
Gray Wet LOAM CLASSIFICATION 64-3 Free Water														
511.70														
0														
0 0.1 26														
0 B														
Gray Med SAND w/ some Med GRAVEL														
509.20														
0														
2 0.3 26														
2 B														
Gray Moist SILTY CLAY LOAM CLASSIFICATION 64-4 Washed														
507.20														
1														
0														
0 0.4 30														
1 B														

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



Illinois Department of Transportation
Division of Highways
West District 6

SOIL BORING LOG

Page 1 of 1

Date 4/13/04

ROUTE FAP 302 DESCRIPTION 336 Section 5 Soil Survey Tributary to Lamoine River LOGGED BY M. Tappan
(IL 336/ US 136)
SECTION 34-5 (5B) LOCATION SEC. 22, TWP. 5N, RNG. 5W, 4 PM
COUNTY HANCOCK DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO.	Station	BORING NO.	Station	Offset	Ground Surface Elev.	D	B	U	M	Surface Water Elev.	D	B	U	M
034-2516 Pr	1318+53.88	64A	1317+55	105.00H RT	526.7	(ft)	/6"	(tsf)	(%)	ft	(ft)	/6"	(tsf)	(%)
Brown Moist CLAY LOAM Ref Classification 64-1														
506.20														
Gray V. Moist SILTY CLAY LOAM Ref Classification 64-4														
0														
2														
0														
0 0.2 29														
0 B														
Gray Moist CLAY LOAM Ref Classification 64-2														
521.20														
2 0.7 16														
2 B														
Gray Med SANDY GRAVEL Washed														
499.20														
0														
1 0.4 24														
3 B														
V. Moist														
0														
0 0.1 46														
1 B														
0														
0 0.3 27														
1 B														
5														
16														
25														
Gray Dirty Wet Med SAND Free Water														
506.20														
0														
0 0.1 27														
0 B														

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



Illinois Department of Transportation
Division of Highways
West District 6

SOIL BORING LOG

Page 1 of 1

Date 4/13/04

ROUTE FAP 302 DESCRIPTION 336 Section 5 Soil Survey Tributary to Lamoine River LOGGED BY M. Tappan
(IL 336/ US 136)
SECTION 34-5 (5B) LOCATION SEC. 22, TWP. 5N, RNG. 5W, 4 PM
COUNTY HANCOCK DRILLING METHOD HSA HAMMER TYPE 140 # Auto

STRUCT. NO.	Station	BORING NO.	Station	Offset	Ground Surface Elev.	D	B	U	M	Surface Water Elev.	D	B	U	M
034-2516 Pr	1318+53.88	65	1318+70	102.00H LT	523.3	(ft)	/6"	(tsf)	(%)	ft	(ft)	/6"	(tsf)	(%)
Tan to Brown Moist Med to Coarse SAND														
517.7														
Stream Bed Elev. 517.3														
Groundwater Elev.: First Encounter 517.3 ft Upon Completion Washed ft After 6 D. Hrs. 518.3 ft														
Gray V. Moist SILTY CLAY LOAM Ref Classification 64-4 (continued)														
0														
1														
2														
0 0.4 25														
2 B														
Gray Med SANDY GRAVEL Washed														
498.30														
0														
1														
2														
0														
0 0.2 24														
1 B														
Gray Dirty Wet Med SAND Free Water														
0														
1														
1														
0														
0														
0														
0 0.2 29														
2 B														
w/ interbedded SILTY CLAY LOAM Seams Washed														
493.80														
1														
5														
7														
Gray V. Moist SILTY CLAY LOAM Ref Classification 64-4														
508.30 -15														
1														
1														
0 0.3 25														
1 B														
0														
0 0.4 27														
1 B														

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

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ILLINOIS DEPARTMENT OF TRANSPORTATION

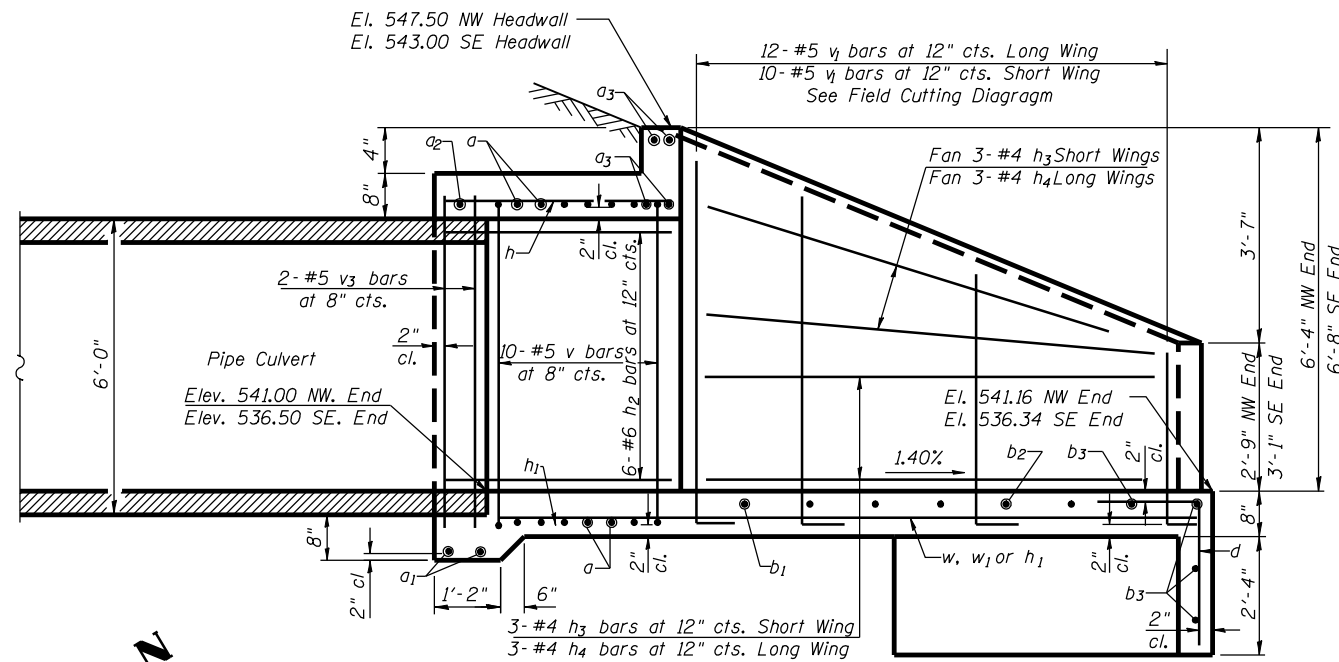
SHEET TITLE: BORING LOGS

PROJECT: IL. RTE. 336 OVER TRIB TO LA MOINE RIVER	PROJECT NO: 02076-4
FAP ROUTE 315 SECTION 34-5 (5B)	SCALE: 03/20/06
HANCOCK COUNTY	DRAWN BY: TFG
STATION 1318+53.88	CHECKED BY: CME/MCB
STRUCTURE NUMBER 034-7001	DRAWING NO:

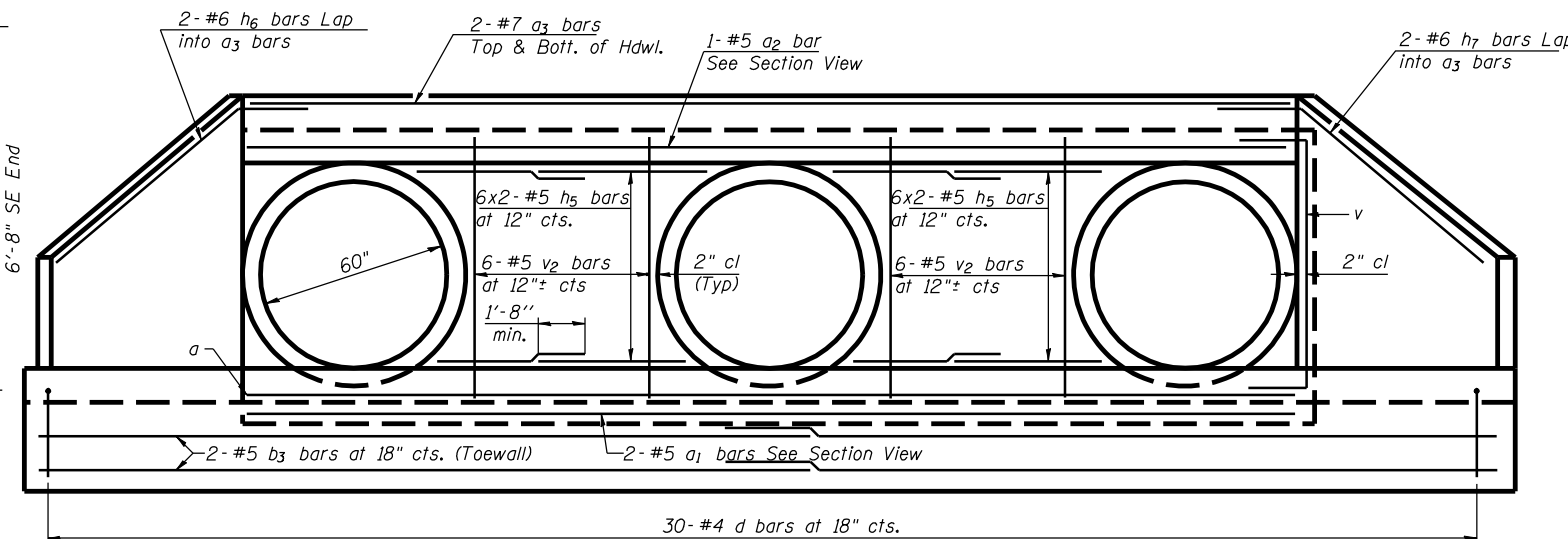
COOMBE-BLOXDORF P.C.
Engineers/Land Surveyors
Springfield, Illinois

Design Firm License No. 184-002708

8
OF 8 SHTS



SECTION A-A

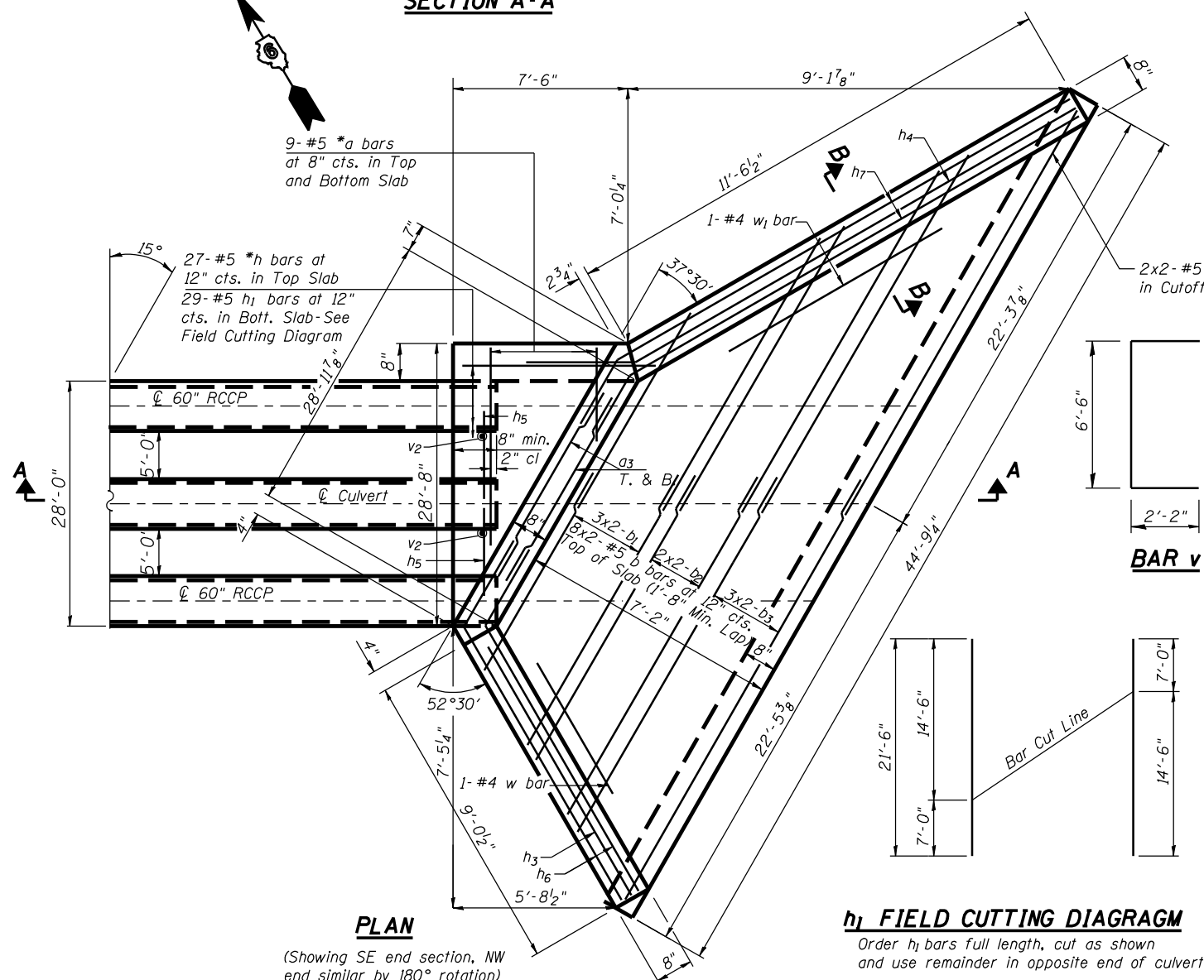


END VIEW

*a and h bars in skew portion of slab shall be ordered full length and cut to fit. Balance of bar to be used in opposite end of culvert.

**2 END SECTIONS
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a	18	#5	27'-0"	—
a1	4	#6	28'-4"	—
a2	2	#5	28'-4"	—
a3	8	#7	29'-0"	—
b1	12	#5	17'-11"	—
b2	8	#5	20'-0"	—
b3	20	#5	23'-4"	—
d	60	#4	5'-4"	└
h	27	#5	8'-0"	—
h1	29	#5	21'-6"	—
h2	12	#4	7'-2"	—
h3	12	#4	8'-8"	—
h4	12	#4	13'-9"	—
h5	48	#5	5'-4"	—
h6	4	#4	12'-7"	—
h7	4	#4	14'-10"	—
v	20	#5	10'-7"	└
v1	22	#5	14'-3"	└
v2	24	#5	8'-8"	└
v3	4	#5	7'-0"	└
w	2	#4	8'-0"	—
w1	2	#4	10'-0"	—
C-I-P Reinforced Conc End Sections			Cu. Yd.	41.6
Reinforcement Bars			Pound	4,640



PLAN

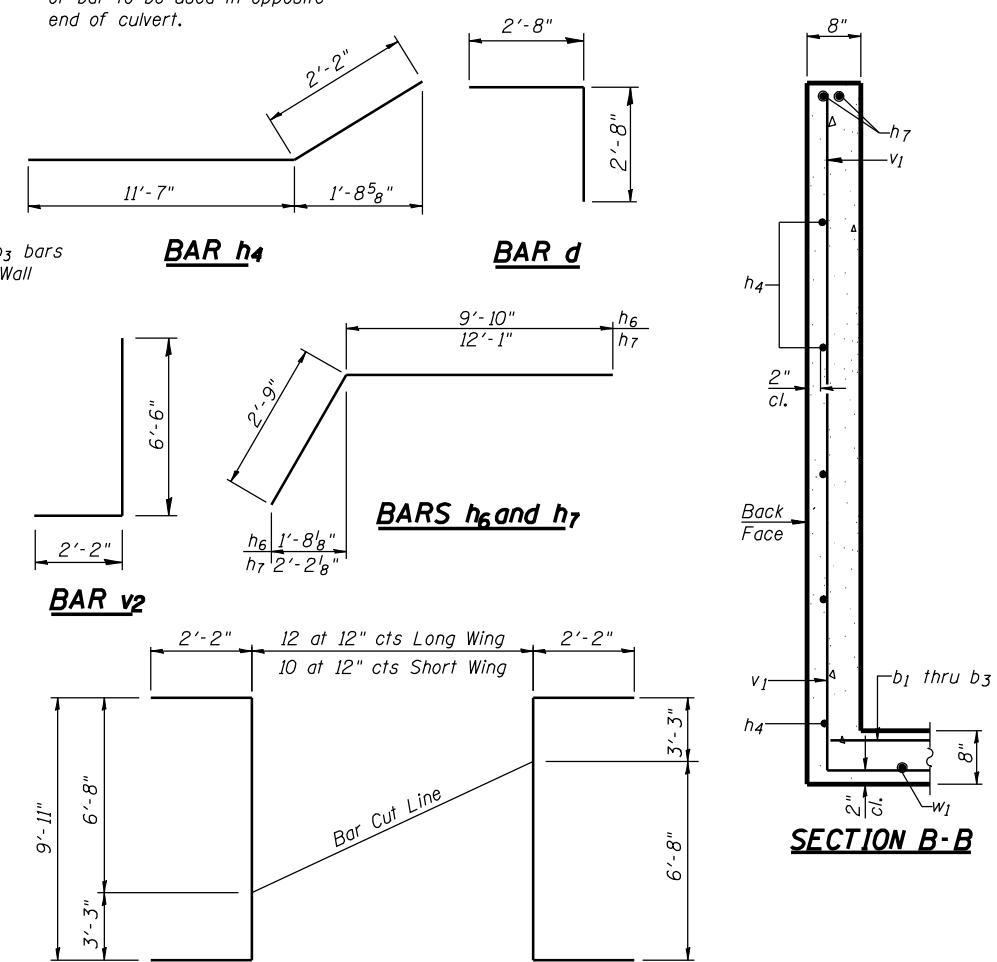
(Showing SE end section, NW end similar by 180° rotation)

h1 FIELD CUTTING DIAGRAM

Order h1 bars full length, cut as shown and use remainder in opposite end of culvert

v1 FIELD CUTTING DIAGRAM

Order v1 bars full length, cut as shown and use remainder in opposite wingwall



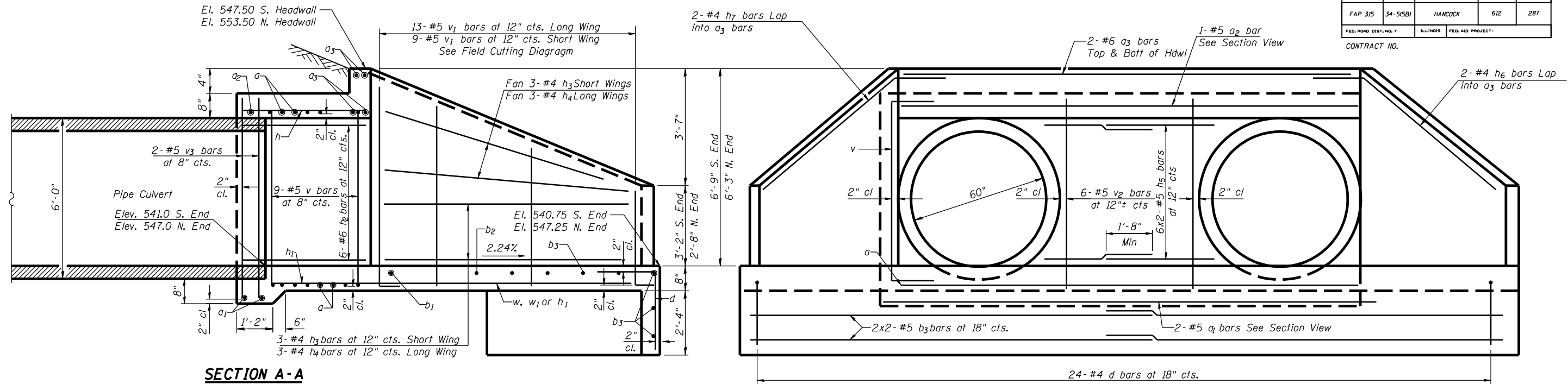
SECTION B-B

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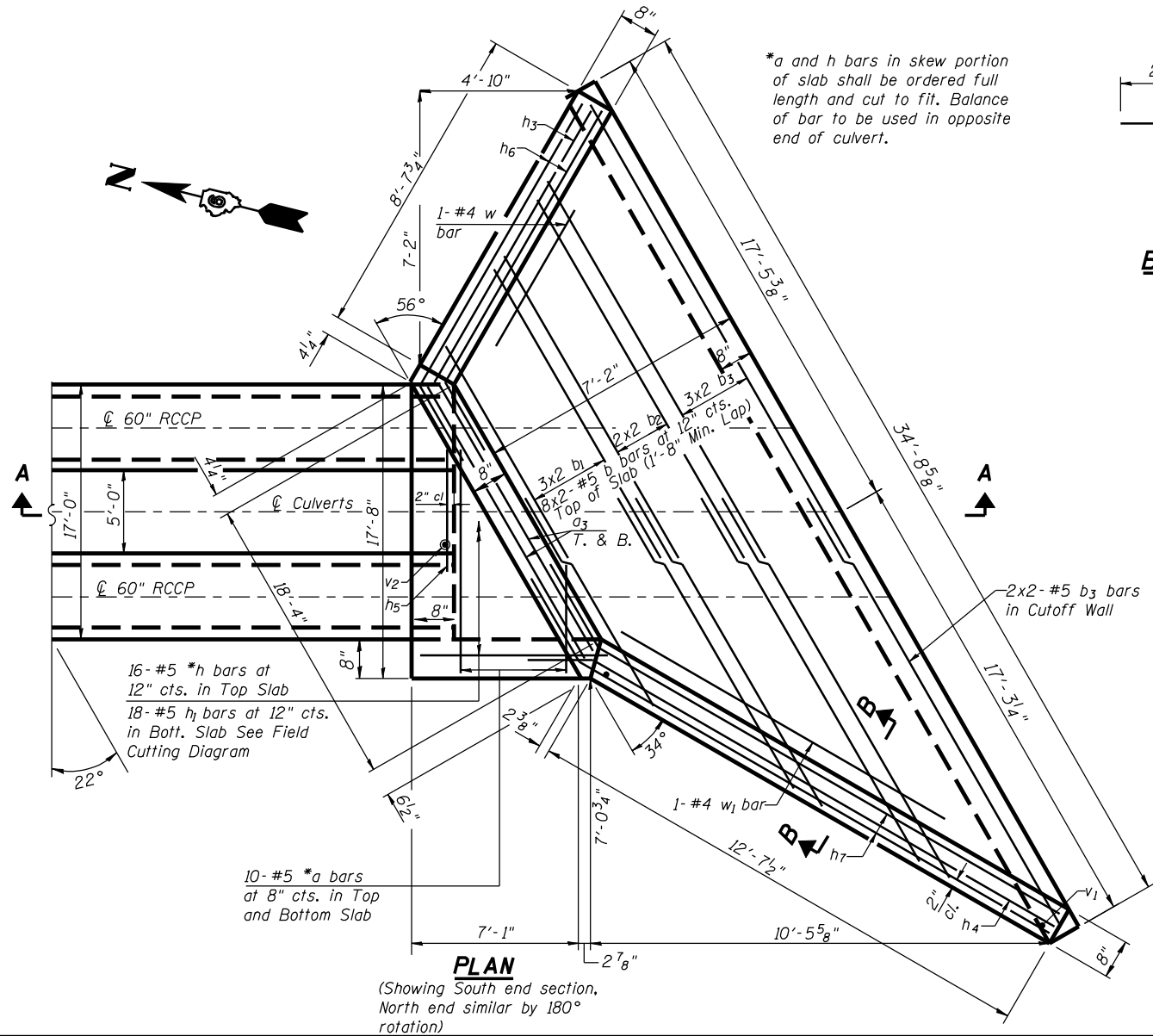
ILLINOIS DEPARTMENT OF TRANSPORTATION	
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PROJECT FAP 315 (IL 336/US 136)	PROJECT NO. 02076
SECTION 34-5 (SB)	DATE 03/08/06
HANCOCK COUNTY	DRAWN BY TFG
STATION 1247+00.19	CHECKED BY AJB/MCB
COOMBE-BLOXDORF P.C. Engineers/Land Surveyors Springfield, Illinois	DRAWING NO. 1
Design Firm License No. 184-002708	OF 1 SHTS

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
FAP 315	34-5(5B)	HANCOCK	612	287
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
CONTRACT NO.				

SHEET NO. 1
1 SHEETS



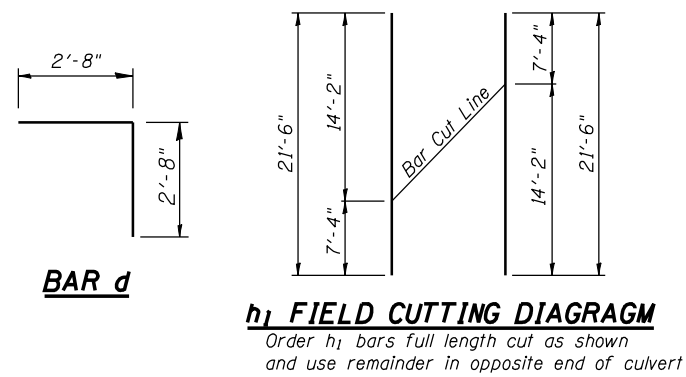
SECTION A-A



PLAN

(Showing South end section, North end similar by 180° rotation)

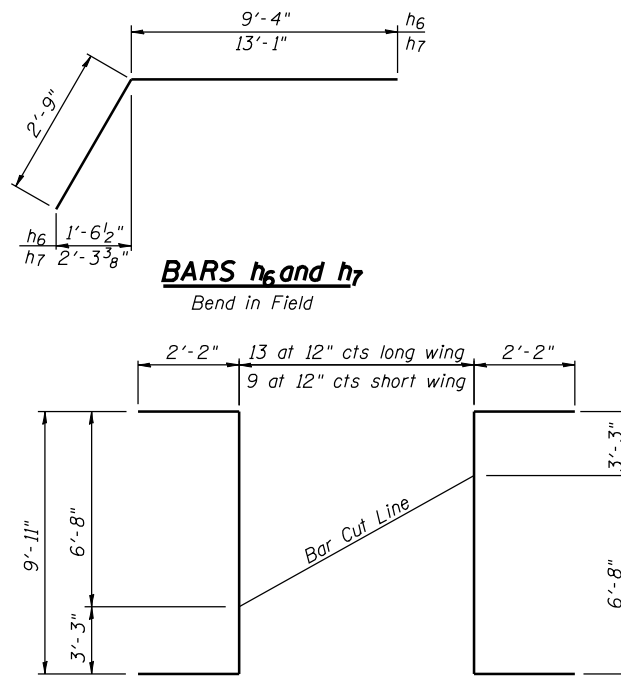
*a and h bars in skew portion of slab shall be ordered full length and cut to fit. Balance of bar to be used in opposite end of culvert.



BAR d

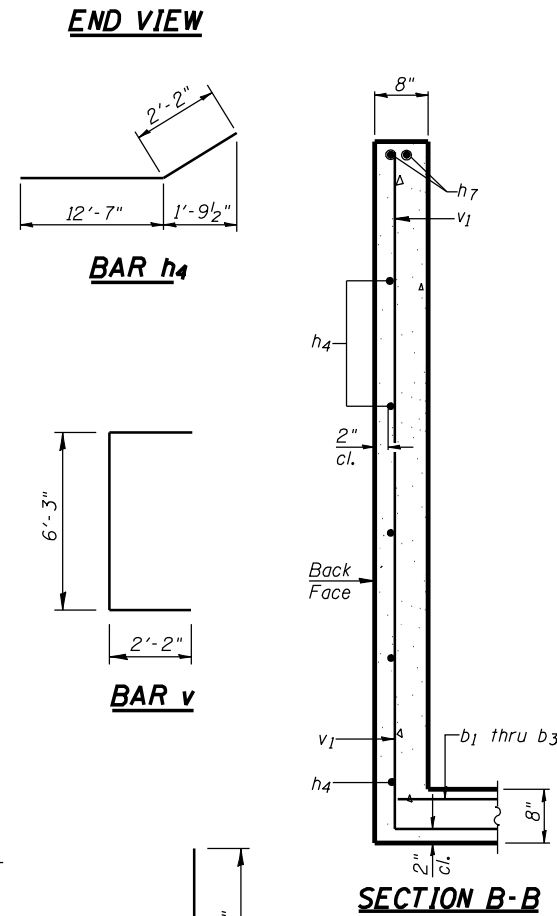
h1 FIELD CUTTING DIAGRAM

Order h1 bars full length cut as shown and use remainder in opposite end of culvert



v1 FIELD CUTTING DIAGRAM

Order v1 bars full length cut as shown and use remainder in opposite wingwall



END VIEW

BAR h4

BAR v

SECTION B-B

**2 END SECTIONS
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a	20	#5	16'-6"	—
a1	4	#6	17'-4"	—
a2	2	#5	17'-4"	—
a3	8	#6	18'-6"	—
b1	12	#5	13'-5"	—
b2	8	#5	15'-0"	—
b3	20	#5	18'-0"	—
d	48	#4	5'-4"	┘
h	16	#5	7'-2"	—
h1	18	#5	21'-6"	—
h2	12	#6	6'-9"	—
h3	12	#4	8'-3"	—
h4	12	#4	14'-9"	—
h5	24	#5	5'-4"	—
h6	4	#4	12'-1"	—
h7	4	#4	15'-10"	—
v	18	#5	10'-7"	┘
v1	22	#5	14'-3"	┘
v2	12	#5	8'-8"	┘
v3	4	#5	7'-0"	┘
w	2	#4	8'-0"	—
w1	2	#4	11'-0"	—
C-I-P Reinforced Conc End Sections Reinforcement Bars			Cu. Yd.	30.1
			Pound	3270

ILLINOIS DEPARTMENT OF TRANSPORTATION

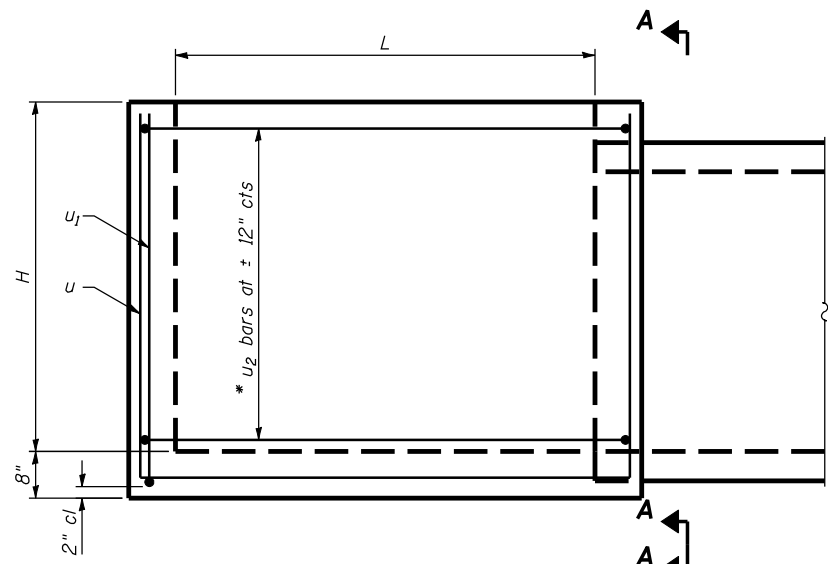
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PROJECT FAP 315 (IL 336/US 136)	SECTION 34-5 (5B)	DATE 03/08/06
HANCOCK COUNTY	STATION 1253+60.00	DRAWN BY TFG
COOMBE-BLOXDORF P.C. Engineers/Land Surveyors Springfield, Illinois		1
Design Firm License No. 184-002708		OF 1 SHTS

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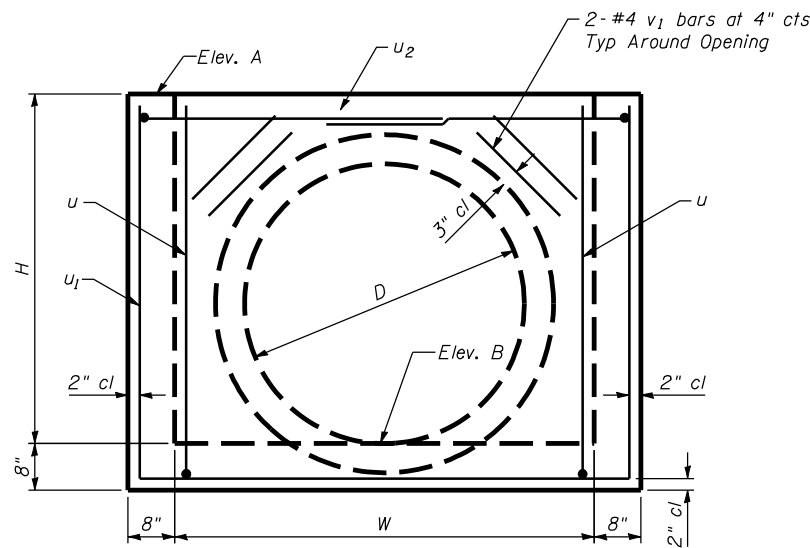
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FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-	

SHEET NO. 1
1 SHEETS

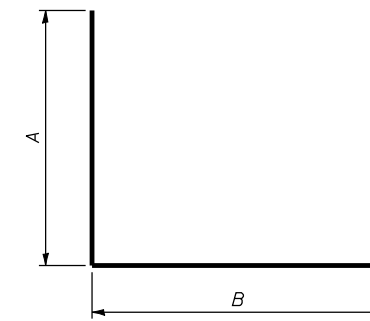
CONTRACT NO.



DROP BOX ELEVATION



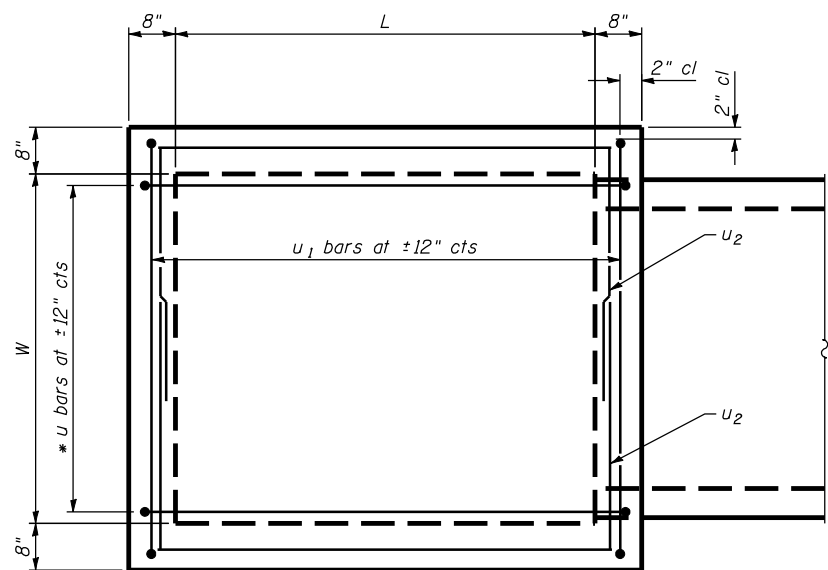
VIEW A-A



u BAR

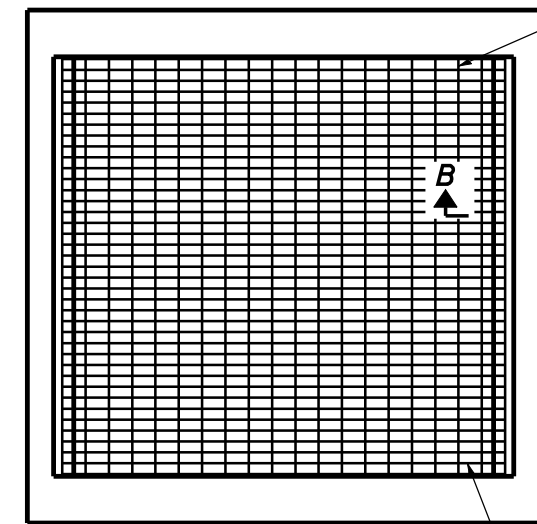
BILL OF MATERIAL

ITEM	UNIT	TOTAL
Drop Box No 1	Each	1
Drop Box No 2	Each	1
Drop Box No 3	Each	1
Frame and Grate	Pound	2120



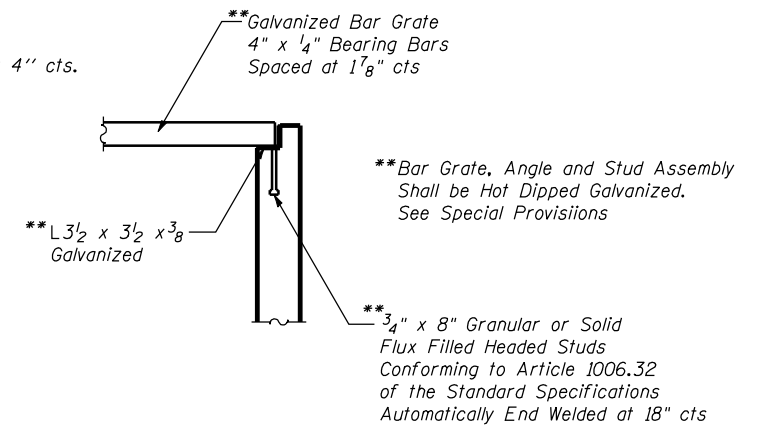
DROP BOX PLAN

* Cut u & u2 bars to fit around pipe opening



DROP BOX GRATE PLAN

Typical at 4' x 4' and 6' x 6' Drop Box Openings



SECTION B-B

Drop Box	Station	Dimensions				u bars			u1 bars			u2 bars			v1 bar		Reinforcement Bars (lb)	Drop Box (Cu Yd)	Elevation A	Elevation B							
		L	W	H	D	No.	Size	A	B	Length	No.	Size	A	B	Length	No.					Size	Length					
No 1	298+68.00	4'-0"	4'-0"	4'-0"	30"	5	4	4'-3"	5'-0"	13'-6"	6	4	4'-3"	5'-0"	13'-6"	10	4	3'-2"	4'-11"	11'-3"	4	4	2'-6"	180	2.4	539.90	535.90
No 2	304+26.11	4'-0"	4'-0"	3'-8 3/8"	30"	5	4	4'-0"	5'-0"	13'-0"	6	4	4'-0"	5'-0"	13'-0"	10	4	3'-2"	4'-11"	11'-3"	4	4	2'-6"	180	2.3	540.70	537.00
No 3	334+50.00	6'-0"	6'-0"	5'-0"	48"	7	4	5'-3"	7'-0"	17'-6"	8	4	5'-3"	7'-0"	17'-6"	12	4	4'-2"	6'-11"	15'-3"	4	4	4'-0"	310	4.3	639.60	534.60
Total																			670	9.0							

ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET TITLE: DROP BOX DETAILS

PROJECT: FAP 315 (IL 336/US 136) SECTION 34-5 (5B) HANCOCK COUNTY

DATE: 03/08/06

DESIGNED BY: AUB/MCB

CHECKED BY: AUB/MCB

COOMBE-BLOXDORF P.C.
Engineers/Land Surveyors
Springfield, Illinois
Design Firm License No. 184-002708

PROJECT NO. 02076

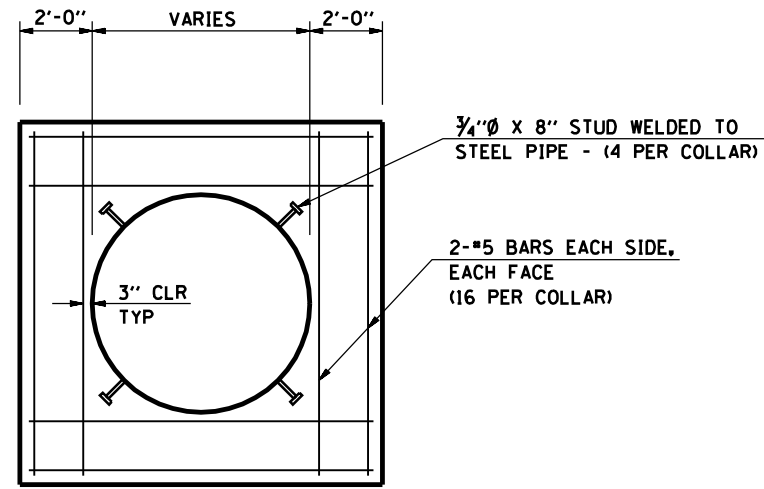
DATE 03/08/06

DRAWING NO. 1

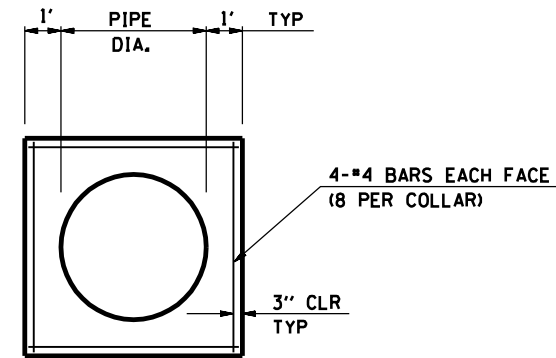
OF 1 SHTS

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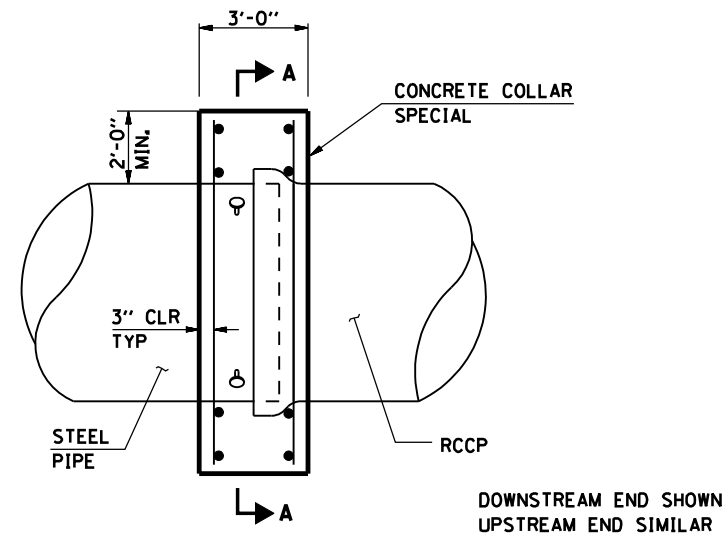
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
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STA.		TO STA.		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		



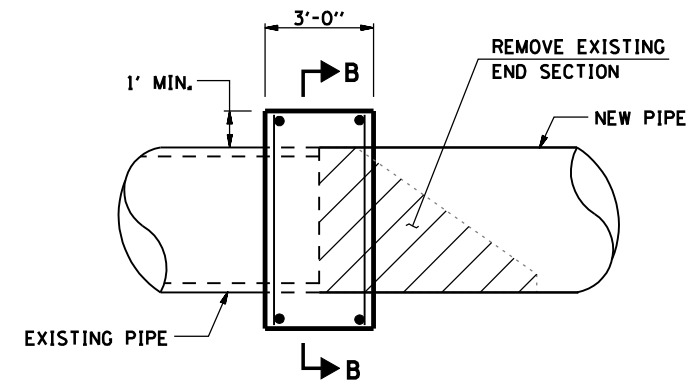
VIEW A-A



VIEW B-B



CONCRETE COLLAR, SPECIAL



CONCRET COLLAR

REVISIONS	
NAME	DATE

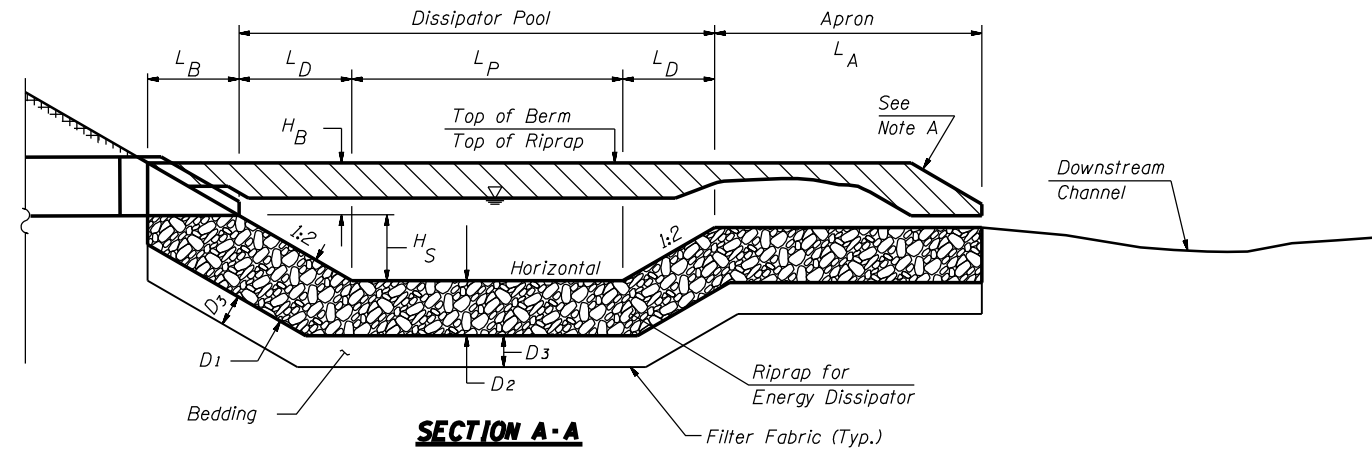
ILLINOIS DEPARTMENT OF TRANSPORTATION

**CONCRETE COLLAR
DETAILS**

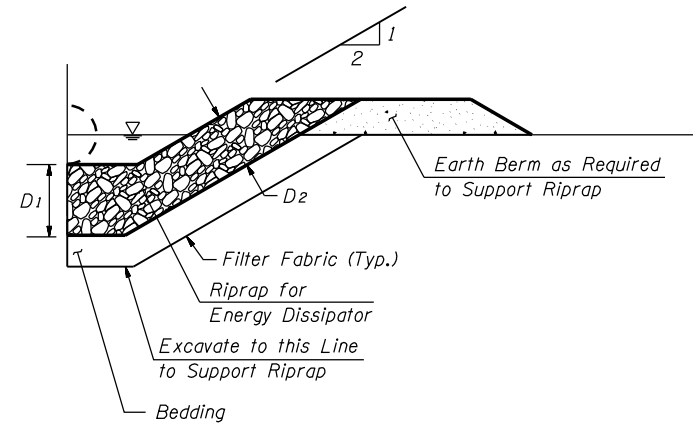
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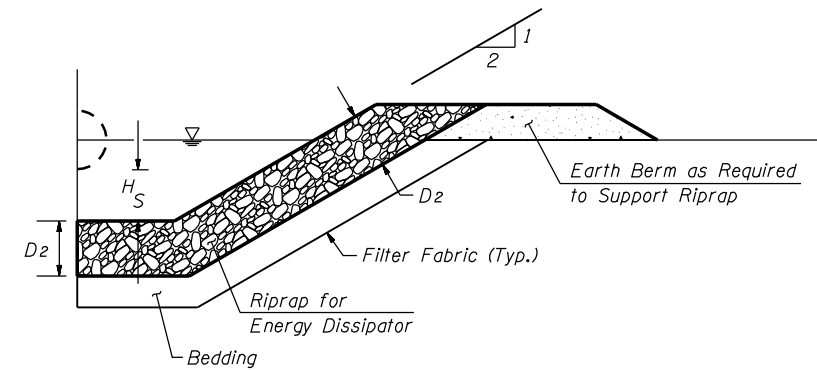
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STA.		TO STA.		
FED. ROAD DIST. No.		ILLINOIS FED. AID PROJECT		



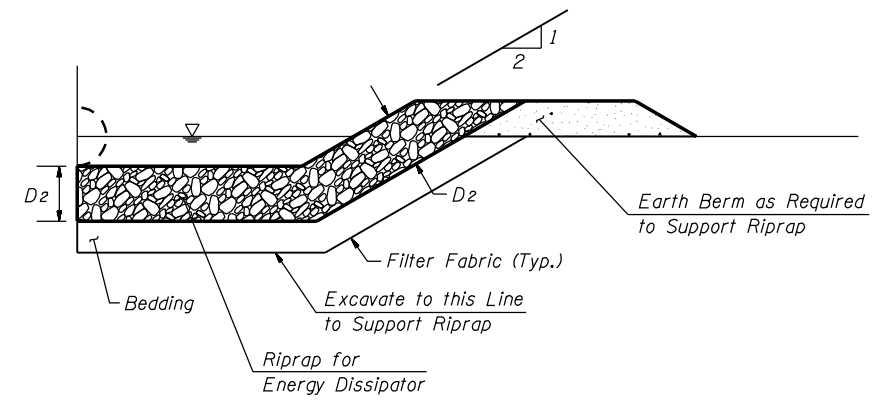
SECTION A-A



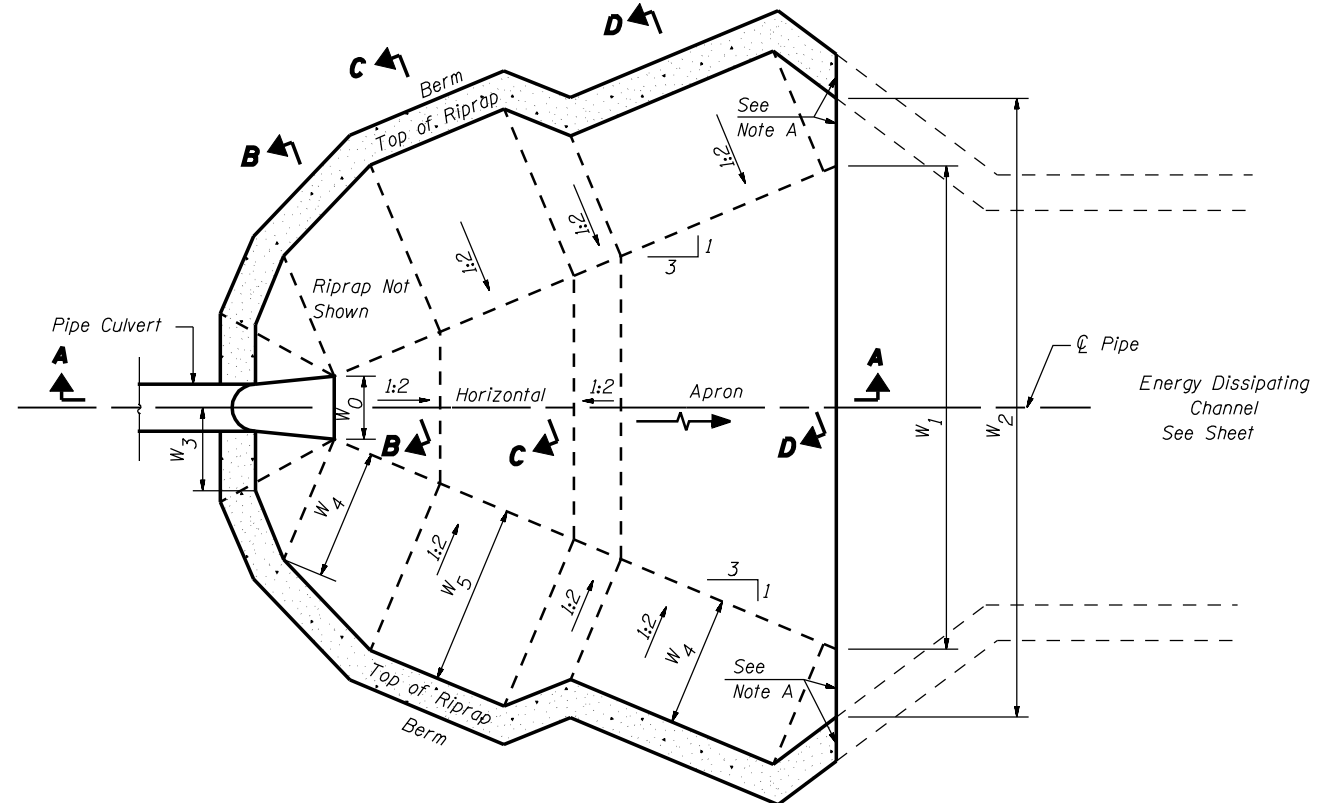
SECTION B-B



SECTION C-C



SECTION D-D



PLAN

NOTE A:
Warp Basin to conform to Natural Stream Channel. Top of Riprap in Floor of Basin Should be at the Same Elevation or Lower than Natural Channel Bottom at End of Apron.

NOTE:
All Slope Ratios are Expressed as Units of Vertical Displacement to Units of Horizontal Displacement (V:H)

STRUCTURE SIZE	STATION	L _B	L _D	L _P	L _A	W ₀	W ₁	W ₂	W ₃	W ₄	W ₅	H _S	H _B	D ₁	D ₂	D ₃	RIPRAP Size	VOLUME Cu. Yd.	RIPRAP Ton
		ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	in.		
48" PIPE	1190+80, RT	7.6	3.8	11.5	9.5	7.0	26.1	33.3	6.0	7.6	11.4	1.9	3.8	3.2	2.4	8	RR 5	103.2	180.5
48" PIPE	1196+45, RT	8.8	2.8	8.2	6.9	7.0	20.8	30.4	6.4	8.8	11.6	1.4	4.4	2.4	1.8	6	RR 4	58.7	102.7
42" PIPE	1222+82, RT	7.6	1.8	6.9	4.2	6.5	16.3	23.5	5.8	7.6	9.4	0.9	3.8	2.4	1.8	6	RR 4	35.9	62.8
48" PIPE	1334+50, RT	6.0	5.8	17.0	14.3	7.0	35.6	39.6	5.5	6.0	11.8	2.9	3.0	3.2	2.4	8	RR 5	160.4	280.7
54" PIPE	1349+83, RT	8.8	2.4	8.7	6.0	7.5	20.5	30.1	6.7	8.8	11.2	1.2	4.4	3.2	2.4	8	RR 5	74.1	129.7
60" PIPE	1368+00, RT	7.2	5.6	16.8	14.0	8.0	36.0	42.4	6.4	7.2	12.8	2.8	3.6	3.2	2.4	8	RR 5	171.4	299.9
60" PIPE	1380+16 & 1380+50, RT	8.2	7.4	22.1	18.5	40.0	76.9	85.3	22.7	8.2	15.6	3.7	4.1	3.2	2.4	8	RR 5	433.2	758.2
60" PIPE	1389+10, RT	10.0	2.6	9.8	6.4	17.0	31.3	43.3	11.8	10.0	12.6	1.3	5.0	3.2	2.4	8	RR 5	109.5	191.7

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

**RIPRAP ENERGY DISSIPATOR
DETAILS FOR PIPE CULVERTS**

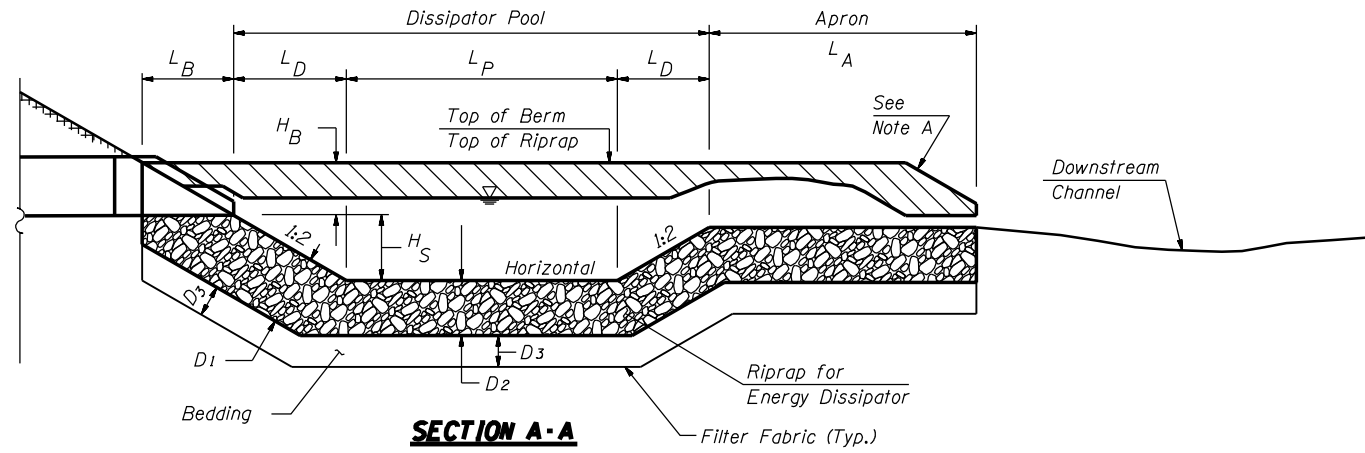
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CHECKED BY: JAC

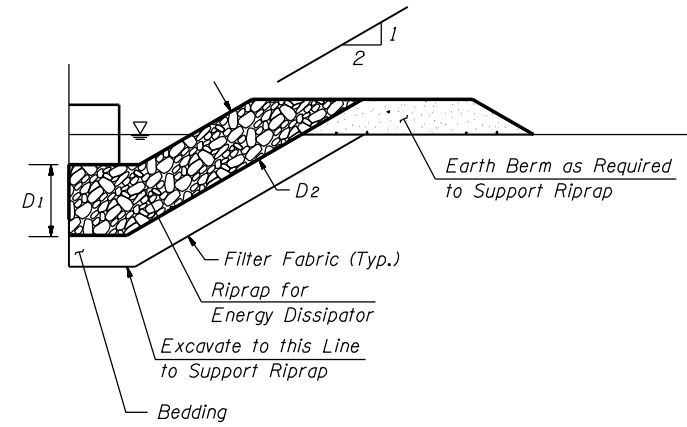
•DGN-SPEC•
•DATE-TIME•
•REF01

D6 PROJECT: FILE:

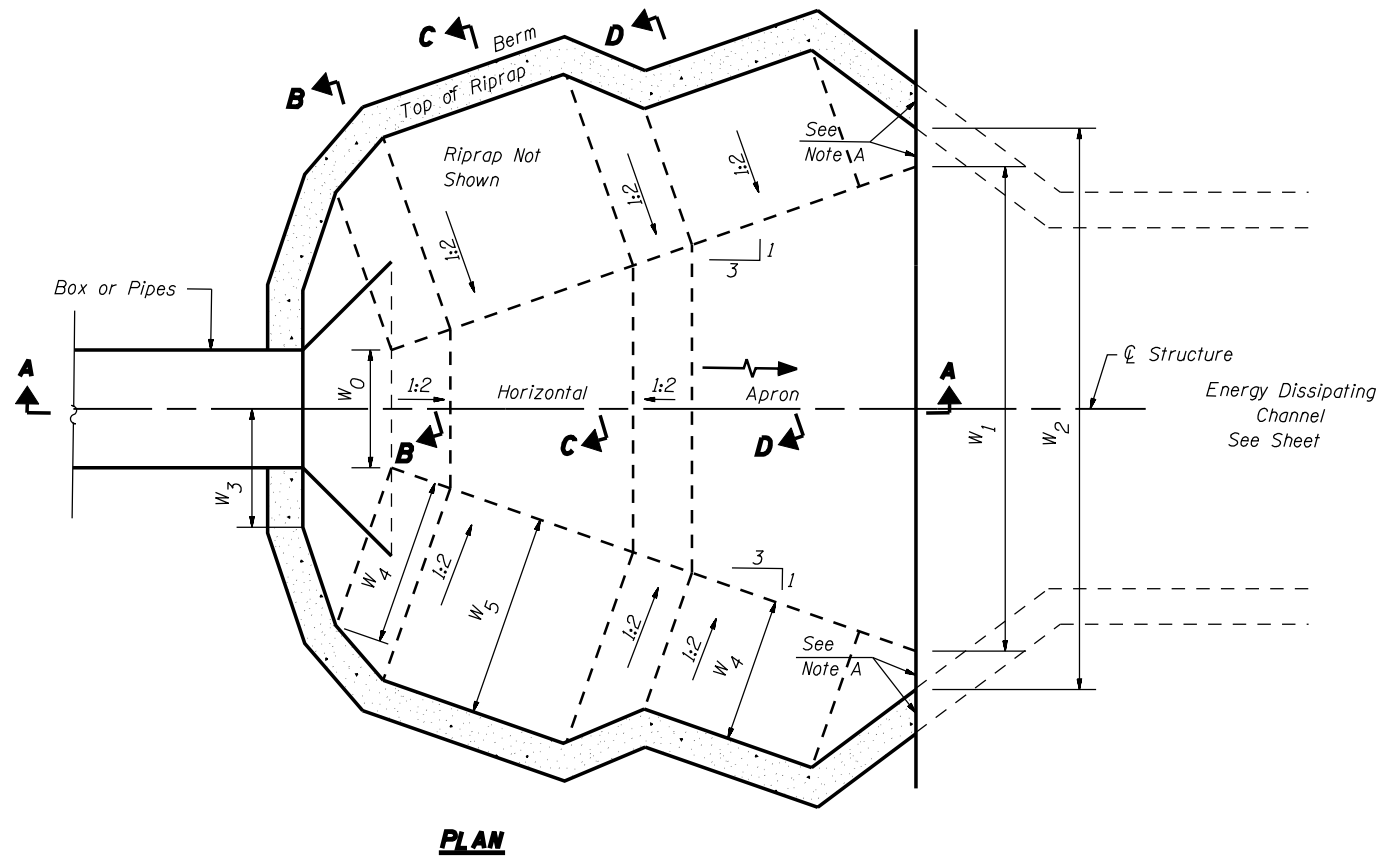
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	291
STA.		TO STA.		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		



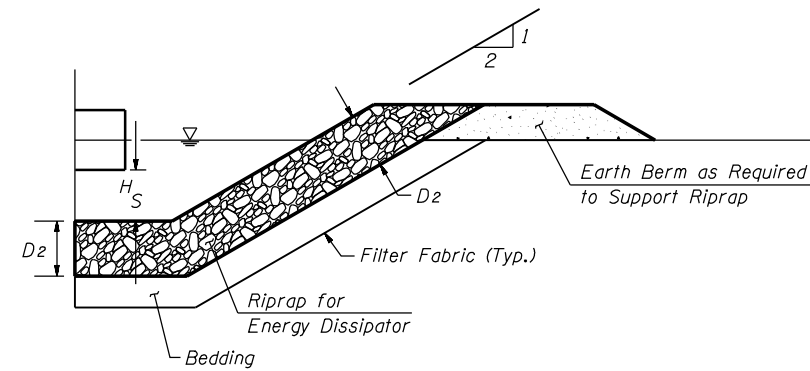
SECTION A-A



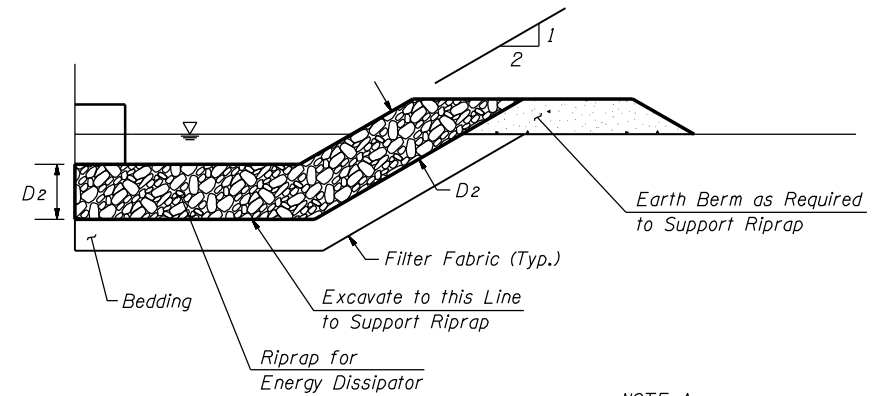
SECTION B-B



PLAN



SECTION C-C



SECTION D-D

NOTE A:
Warp Basin to conform to Natural Stream Channel.
Top of Riprap in Floor of Basin Should be at the Same Elevation or Lower than Natural Channel Bottom at End of Apron.

NOTE:
All Slope Ratios are Expressed as Units of Vertical Displacement to Units of Horizontal Displacement (V:H)

STRUCTURE SIZE	STATION	L _B	L _D	L _P	L _A	W ₀	W ₁	W ₂	W ₃	W ₄	W ₅	H _S	H _B	D ₁	D ₂	D ₃	RIPRAP Size	VOLUME Cu. Yd.	RIPRAP Ton
		ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	in.		
6' x 6' BOX	1209+45, RT.	8.0	8.2	25.0	20.7	6.0	47.4	55.4	5.7	8.0	16.2	4.1	4.0	3.2	2.4	8	RR 5	302.9	530.2

REVISIONS	
NAME	DATE

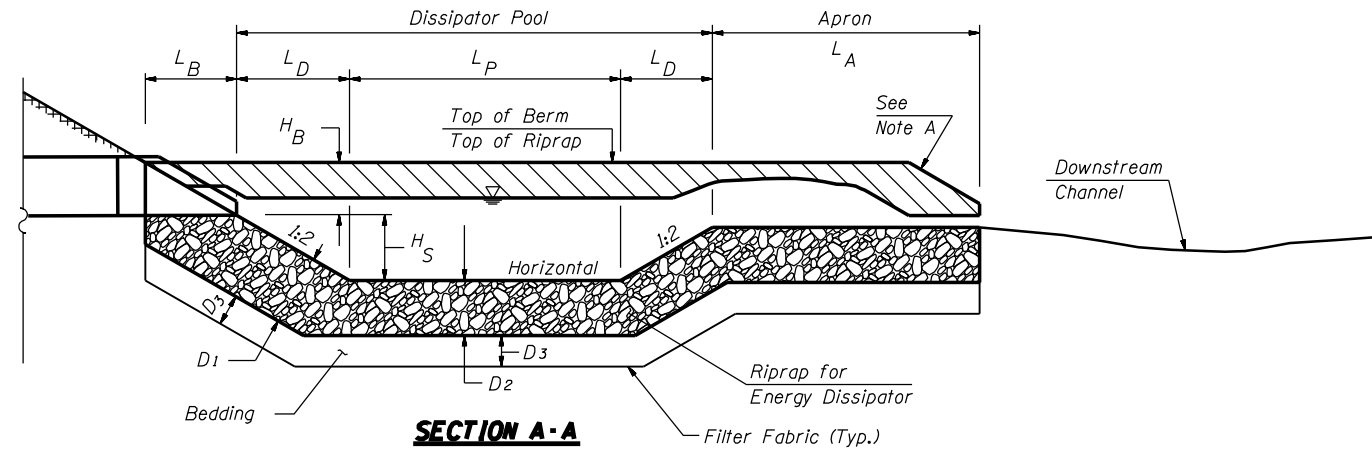
ILLINOIS DEPARTMENT OF TRANSPORTATION

**RIPRAP ENERGY DISSIPATOR
DETAILS FOR BOX CULVERTS**

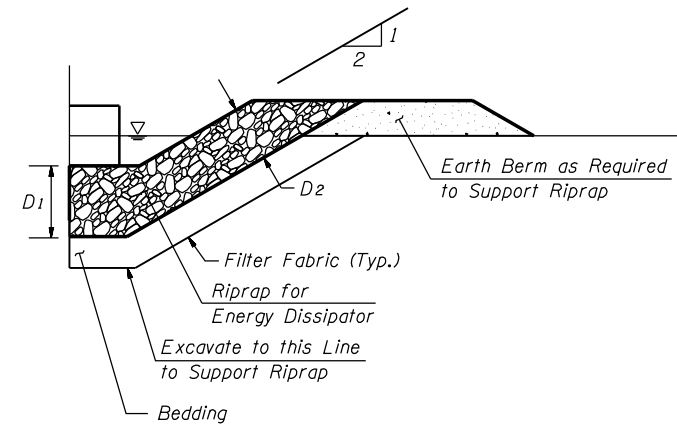
SCALE:
DATE: MARCH 10, 2006

DRAWN BY: RG
CHECKED BY: JAC

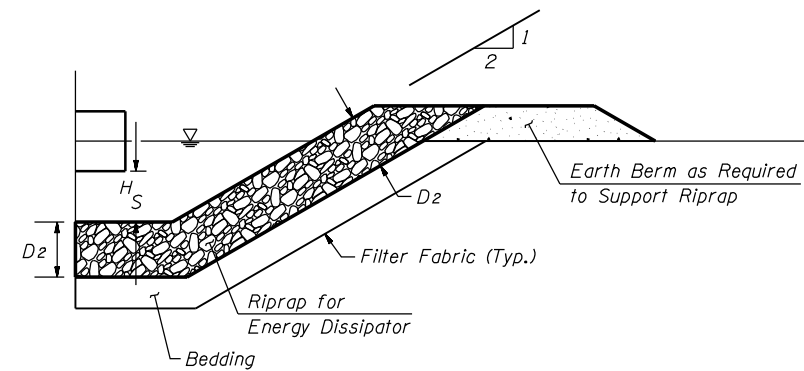
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	292
STA.		TO STA.		
FED. ROAD DIST. No.		ILLINOIS FED. AID PROJECT		



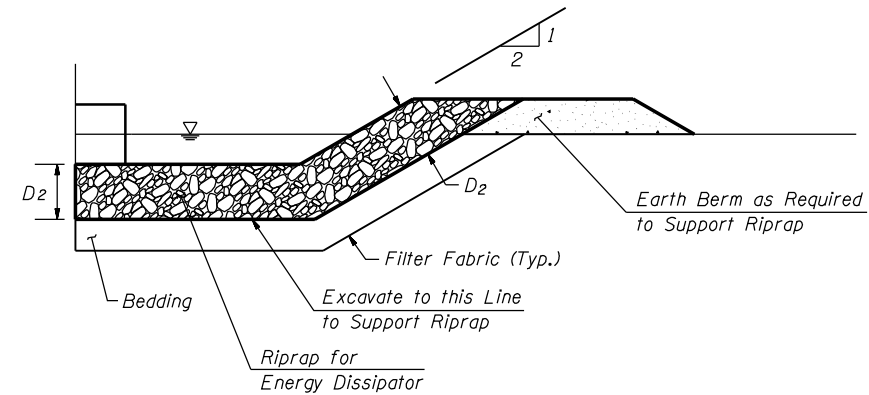
SECTION A-A



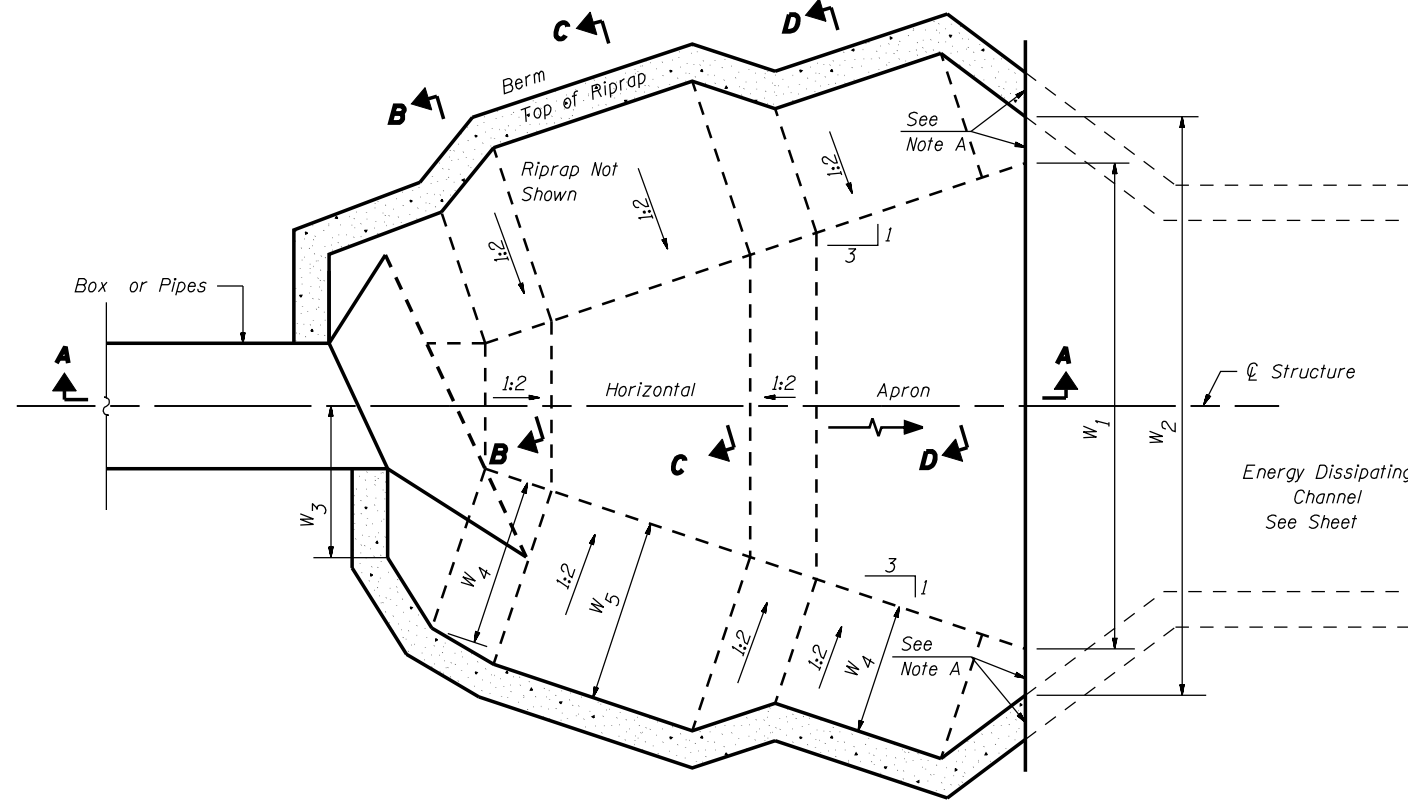
SECTION B-B



SECTION C-C



SECTION D-D



PLAN

NOTE A:
Warp Basin to conform to Natural Stream Channel.
Top of Riprap in Floor of Basin should be at the Same Elevation or Lower than Natural Channel Bottom at End of Apron.

NOTE:
All Slope Ratios are Expressed as Units of Vertical Displacement to Units of Horizontal Displacement (V:H)

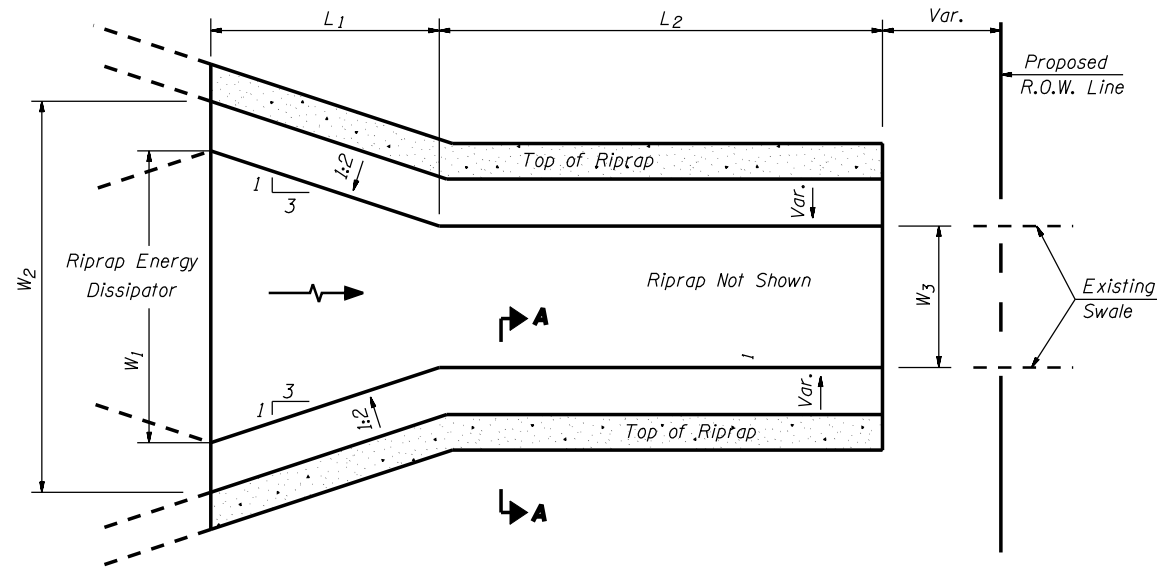
STRUCTURE SIZE	STATION	L _B	L _D	L _P	L _A	W ₀	W ₁	W ₂	W ₃	W ₄	W ₅	H _S	H _B	D ₁	D ₂	D ₃	RIPRAP Size	VOLUME Cu. Yd.	RIPRAP Ton
		ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	ft.	in.		
3 - 60" PIPES	1247+00, RT	11.0	4.6	13.7	11.4	30.0	52.9	66.9	18.7	11.0	15.6	2.3	5.5	3.2	2.4	8	RR 5	236.8	414.4
2 - 60" PIPES	1253+60, RT	7.0	7.2	21.5	18.0	18.0	53.9	59.9	11.3	7.0	14.2	3.6	3.5	3.2	2.4	8	RR 5	292.9	512.6
6' X 6' BOX	1268+63, RT	6.6	7.8	23.0	19.3	6.0	44.6	49.8	5.2	6.6	14.4	3.9	3.3	3.2	2.4	8	RR 5	254.6	445.6
7' X 8' DBL BOX	1289+80, RT	8.8	6.0	18.3	15.2	14.0	44.3	53.9	9.9	8.8	14.8	3.0	4.4	3.2	2.4	8	RR 5	235.0	411.3
8' X 12' DBL BOX	1318+54, RT	15.0	9.0	27.5	22.7	17.0	62.5	84.5	13.5	15.0	24.0	4.5	7.5	4.5	3.4	12	RR 7	760.5	1330.9

REVISIONS	
NAME	DATE

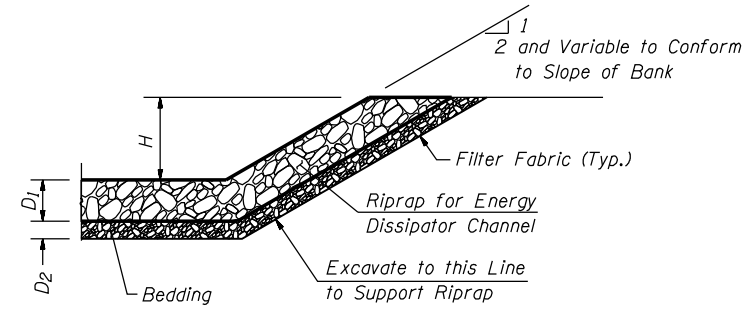
ILLINOIS DEPARTMENT OF TRANSPORTATION
**RIPRAP ENERGY DISSIPATOR
DETAILS FOR SKEWED BOX CULVERTS**

SCALE: DATE: MARCH 10, 2006
DRAWN BY: RG
CHECKED BY: JAC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	293
STA.		TO STA.		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		



RIPRAP ENERGY DISSIPATING CHANNEL



SECTION A-A

NOTE:
All Slope Ratios are Expressed as Units of Vertical Displacement to Units of Horizontal Displacement (V:H)

STRUCTURE SIZE	STATION	L ₁ LENGTH	L ₂ LENGTH	D ₁ RIPRAP THICKNESS	D ₂ BEDDING THICKNESS	W ₁ DISSIPATOR WIDTH	W ₂ BASIN WIDTH	W ₃ CHANNEL WIDTH	H CHANNEL DEPTH	AREA	RIPRAP	QUANTITY
		Ft.	Ft.	Ft.	In.	Ft.	Ft.	Ft.	Ft.	SQ. YD.	SIZE	TON
48" PIPE	1190+80. RT.	34.7	5.0	2.4	8	26.1	33.3	3.0	3.8	136.09	RR5	190.5
48" PIPE	1196+45. RT.	20.7	22.0	1.8	6	20.8	30.4	7.0	4.4	144.89	RR4	152.1
42" PIPE	1222+82. RT.	20.0	20.0	1.8	6	16.3	23.5	3.0	3.8	105.53	RR4	110.8
3 - 60" PIPES	1247+00. RT.	64.4	15.0	2.4	8	52.9	66.9	10.0	5.5	467.91	RR5	655.1
2 - 60" PIPES	1253+60. RT.	62.9	0.0	2.4	8	53.9	59.9	12.0	3.5	345.32	RR5	483.4
6' X 6' BOX EXT	1268+63. RT.	57.9	6.0	2.4	8	44.6	49.8	6.0	3.3	276.68	RR5	387.4
7' X 8' DBL BOX	1289+80. RT.	54.5	0.0	2.4	8	44.3	53.9	8.0	4.4	283.70	RR5	397.2
8' X 12' DBL BOX	1318+54. RT.	75.8	10.0	3.4	12	62.5	84.5	12.0	7.5	661.70	RR7	1312.4
54" PIPE	1349+83. RT.	18.8	35.0	2.4	8	20.5	30.1	8.0	4.4	180.53	RR5	252.7
60" PIPE	1368+00. RT.	48.0	10.0	2.4	8	36.0	42.4	4.0	3.6	219.51	RR5	307.3
2 - 60" PIPES	1380+16. RT.	100.4	0.0	2.4	8	76.9	85.3	10.0	4.1	699.97	RR5	980.0
2 - 60" PIPES	1389+10. RT.	38.0	10.0	2.4	8	31.3	43.3	6.0	5.0	209.54	RR5	293.4

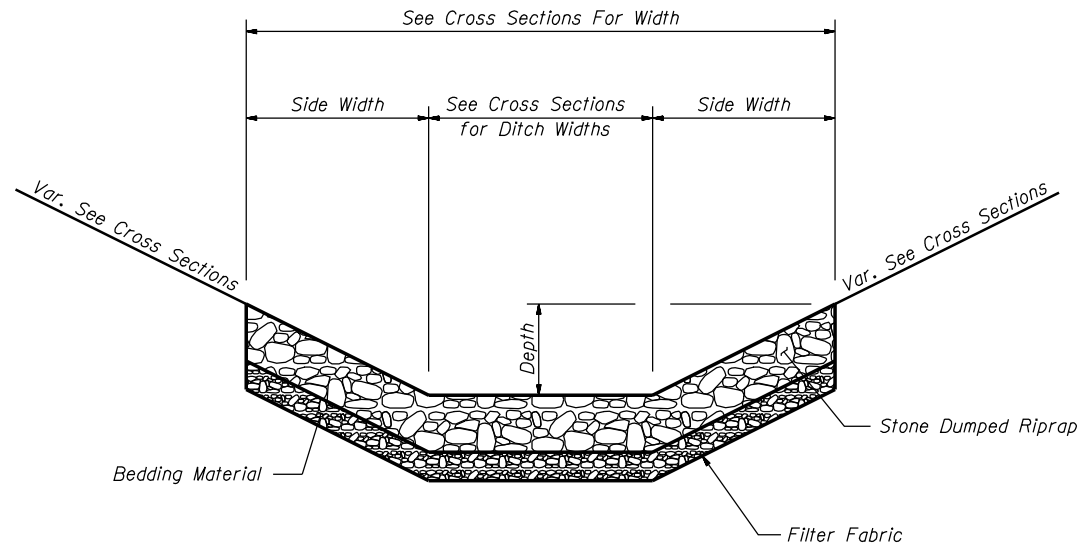
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

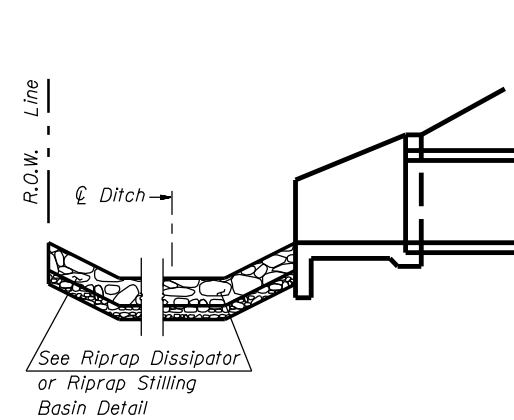
RIPRAP ENERGY DISSIPATING CHANNEL

SCALE: DATE: MARCH 10, 2006 DRAWN BY: RG CHECKED BY: JAC

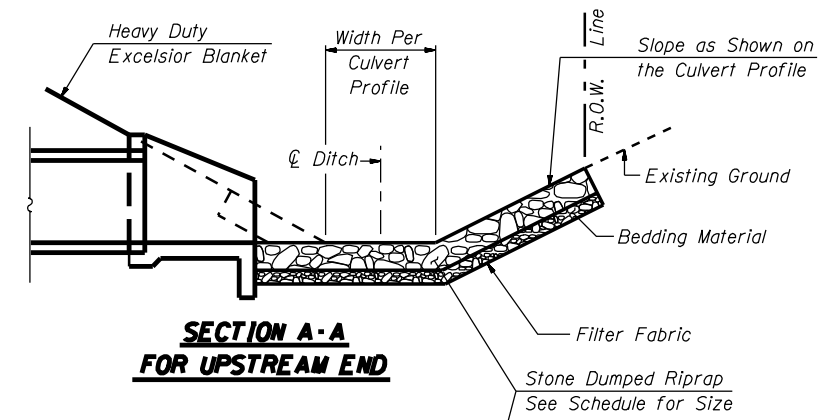
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	294
STA.		TO STA.		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		



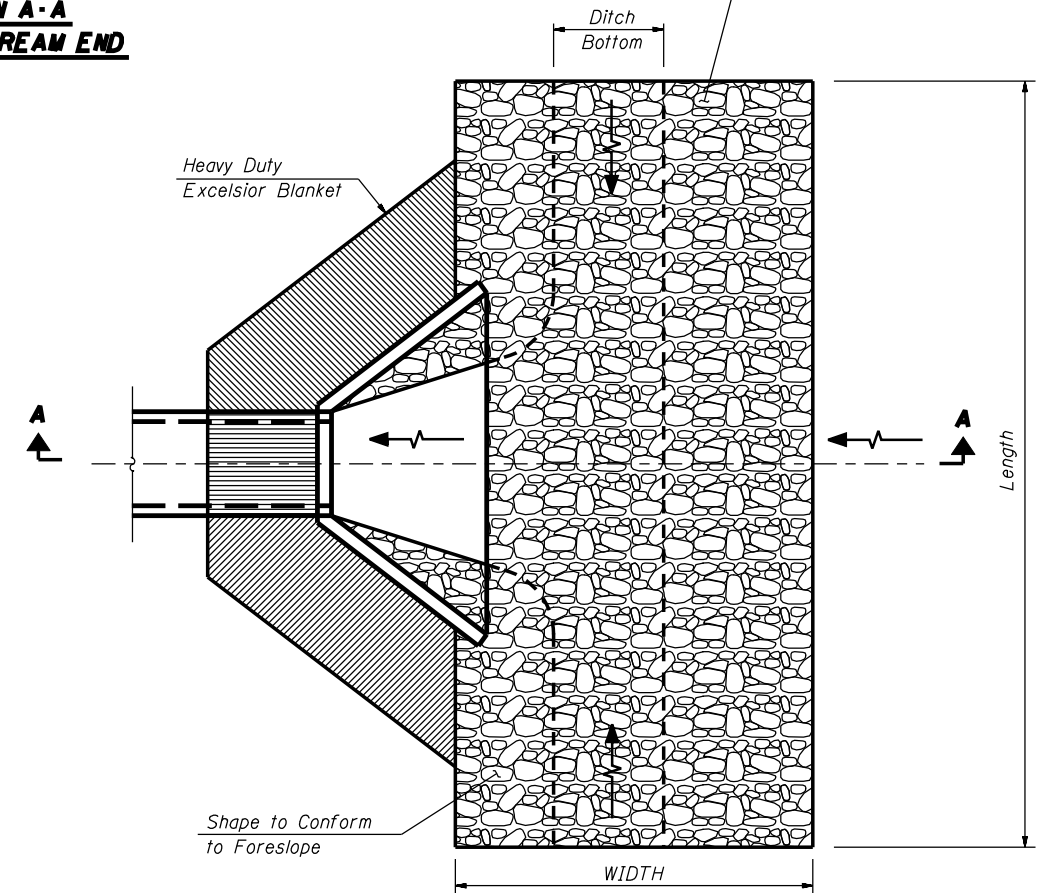
TYPICAL STONE RIPRAP - DITCH LINING



SECTION A-A FOR DOWNSTREAM END



SECTION A-A FOR UPSTREAM END



PLAN RIPRAP AT INLET ENDS OF CULVERTS

RIPRAP AT INLET ENDS

DEPTH	SIDE WIDTH	
	1:3 SLOPE	1:6 SLOPE
6"	1.5'	3.0'
12"	3.0'	6.0'
18"	4.5'	9.0'
24"	6.0'	12.0'

Note:
In Transitional Areas, Side Width Will Vary According to Side Slope

STATION	LT/RT	LENGTH	WIDTH	TYPE	TON
1253+60	LT	24.00	63.00	RR5	147.0
1298+68	LT	40.00	30.00	RR4	77.8
1301+70	LT	40.00	30.00	RR4	77.8
1304+26	LT	40.00	40.00	RR4	103.7
1308+21	LT	40.00	08.00	RR4	20.7

NOTES

The Exact Length, Width and Depth for Riprap Placement will be Determined by the Engineer.

The Riprap Material shall Conform to Class A or Class B Quality.

Filter Fabric will be Paid for at the Contract unit price Per Square Yard for Filter Fabric For Use With Riprap.

GRADATION	MIN. THICKNESS	BEDDING THICKNESS
RR3	12"	---
RR4	12"	6"
RR5	18"	6"
RR7	24"	8"

REVISIONS	
NAME	DATE

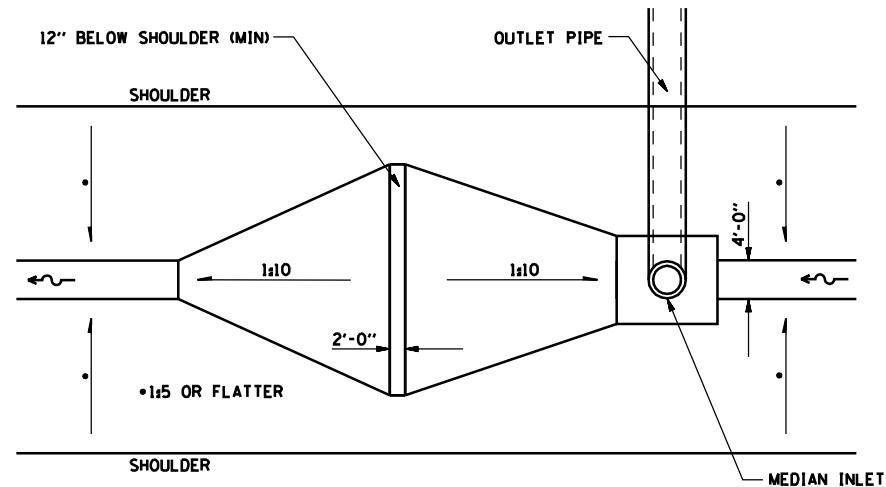
ILLINOIS DEPARTMENT OF TRANSPORTATION

RIPRAP DETAILS

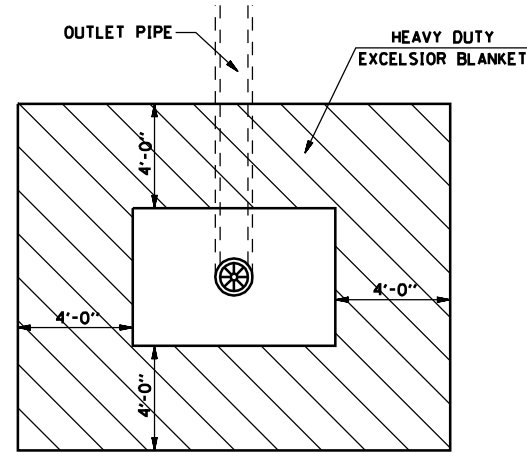
SCALE:
DATE: MARCH 10, 2006

DRAWN BY: RG
CHECKED BY: JAC

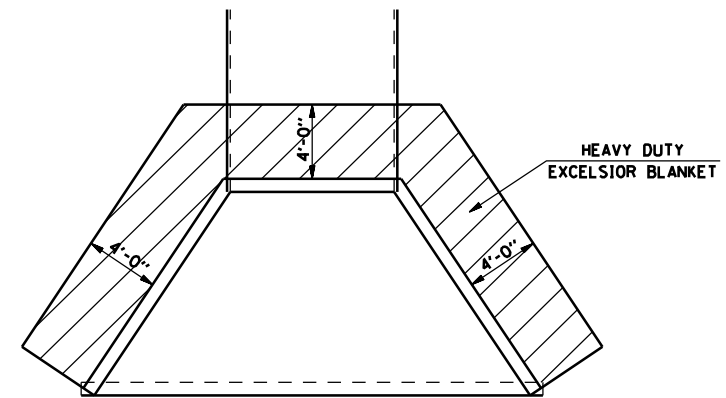
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
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STA.		TO STA.		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		



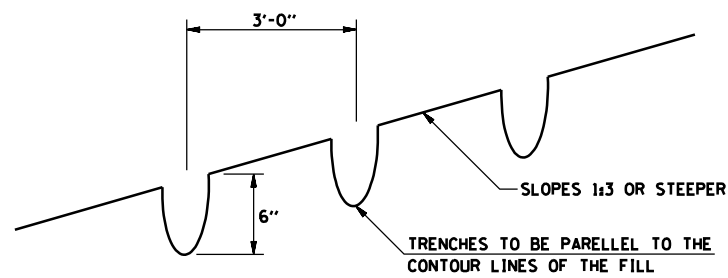
EARTH DITCH CHECK @ MEDIAN INLET



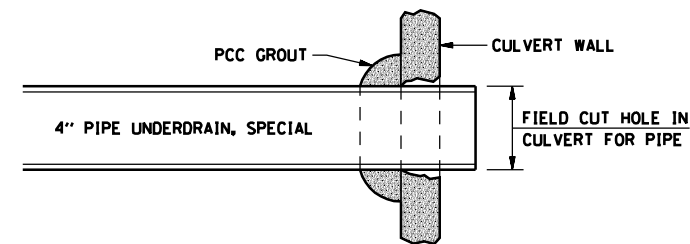
HEAVY DUTY EXCELSIOR BLANKET AROUND MEDIAN INLETS STD 604101 & STD 604106



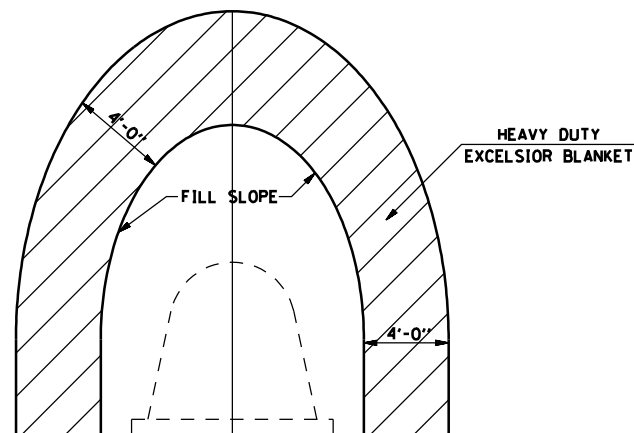
HEAVY DUTY EXCELSIOR BLANKET AROUND HEADWALLS & CULVERT WINGWALLS



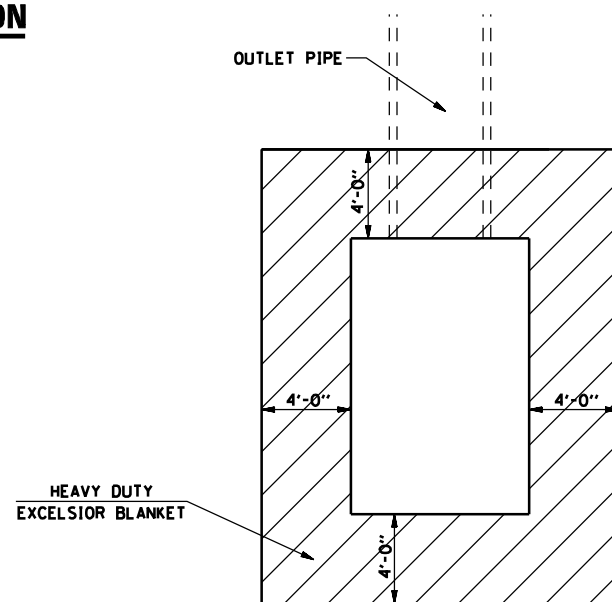
DETAIL - SEED BED PREPARATION



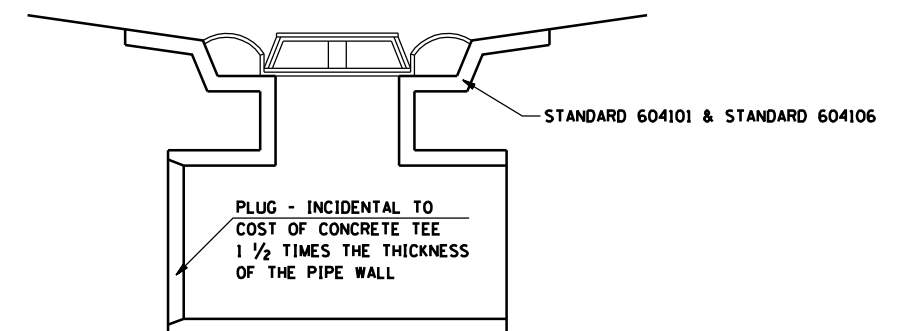
DETAIL FOR PLACING PIPE INTO CULVERT
USE ALSO FOR PLACING PIPE INTO PIPE OR PIPE TEE



HEAVY DUTY EXCELSIOR BLANKET AROUND FLARED END SECTION STD 542301



HEAVY DUTY EXCELSIOR BLANKET AROUND HEADWALL FOR PIPE UNDERDRAIN STD 601101



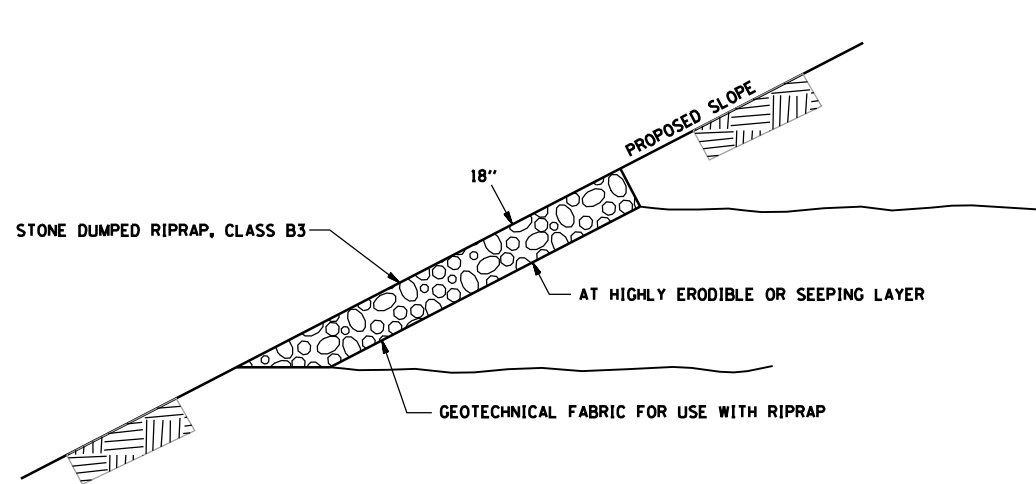
DETAIL - CONCRETE PIPE TEE STANDARD 542606

REVISIONS	
NAME	DATE

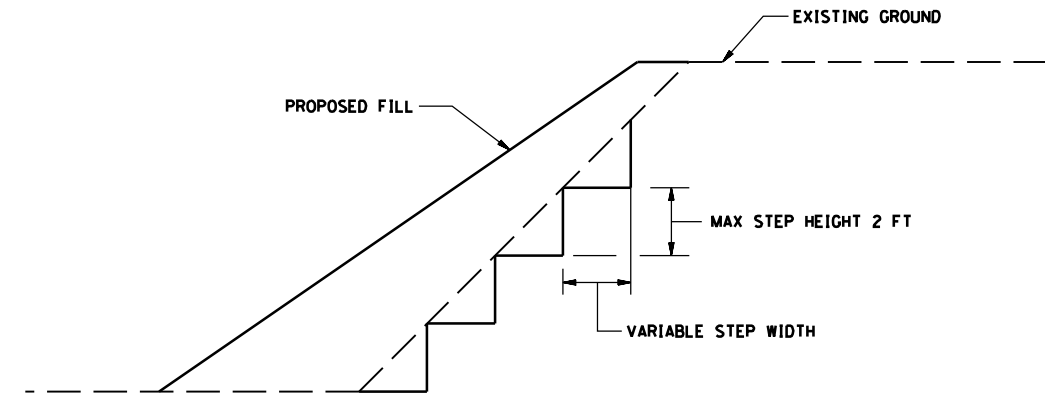
ILLINOIS DEPARTMENT OF TRANSPORTATION
SPECIAL DETAILS
HEAVY DUTY EXCELSIOR BLANKET AND EARTH DITCH CHECK

SCALE: DATE: MARCH 10, 2006
DRAWN BY: RG
CHECKED BY: JAC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	296
STA.		TO STA.		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		



TYPICAL SLOPE PROTECTION DETAIL

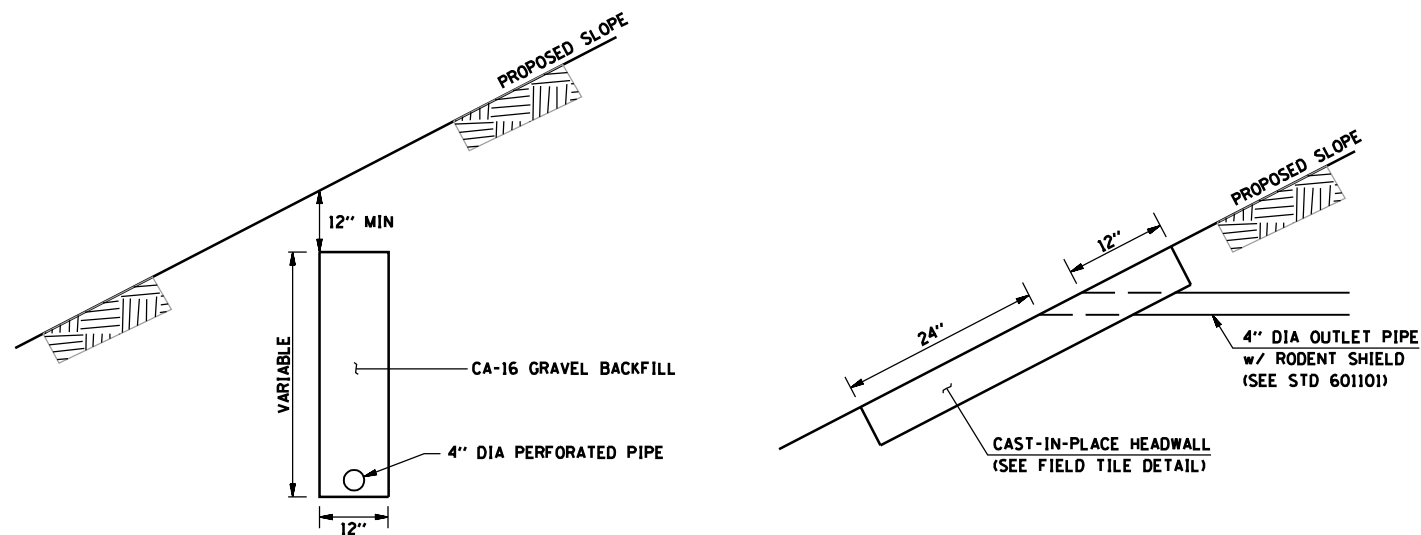


NOTE:

THIS DETAIL APPLIES TO SIDHILL FILLS WHERE THE EXISTING SLOPE IS GREATER THAN 12 FT HIGH AND/OR STEEPER THAN 1V:3H.

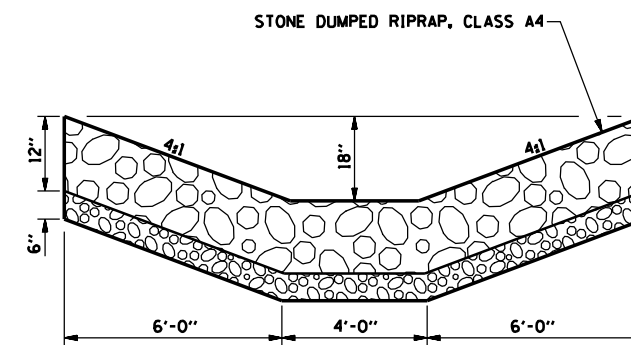
STEPS MAY BE CUT IN CONJUNCTION WITH NEW FILL PLACEMENT.

TYPICAL SIDHILL FILL STEPPING DETAIL



SLOPE PIPE TO DRAIN

TYPICAL BACKSLOPE DRAIN DETAIL



RIPRAP SWALE - RR4

(SEE PLANS & CROSS SECTIONS FOR LOCATIONS)

DGN: SPEC
 DATE: TIME
 *REF: 01

D6 PROJECT: FILE: .

REVISIONS	
NAME	DATE

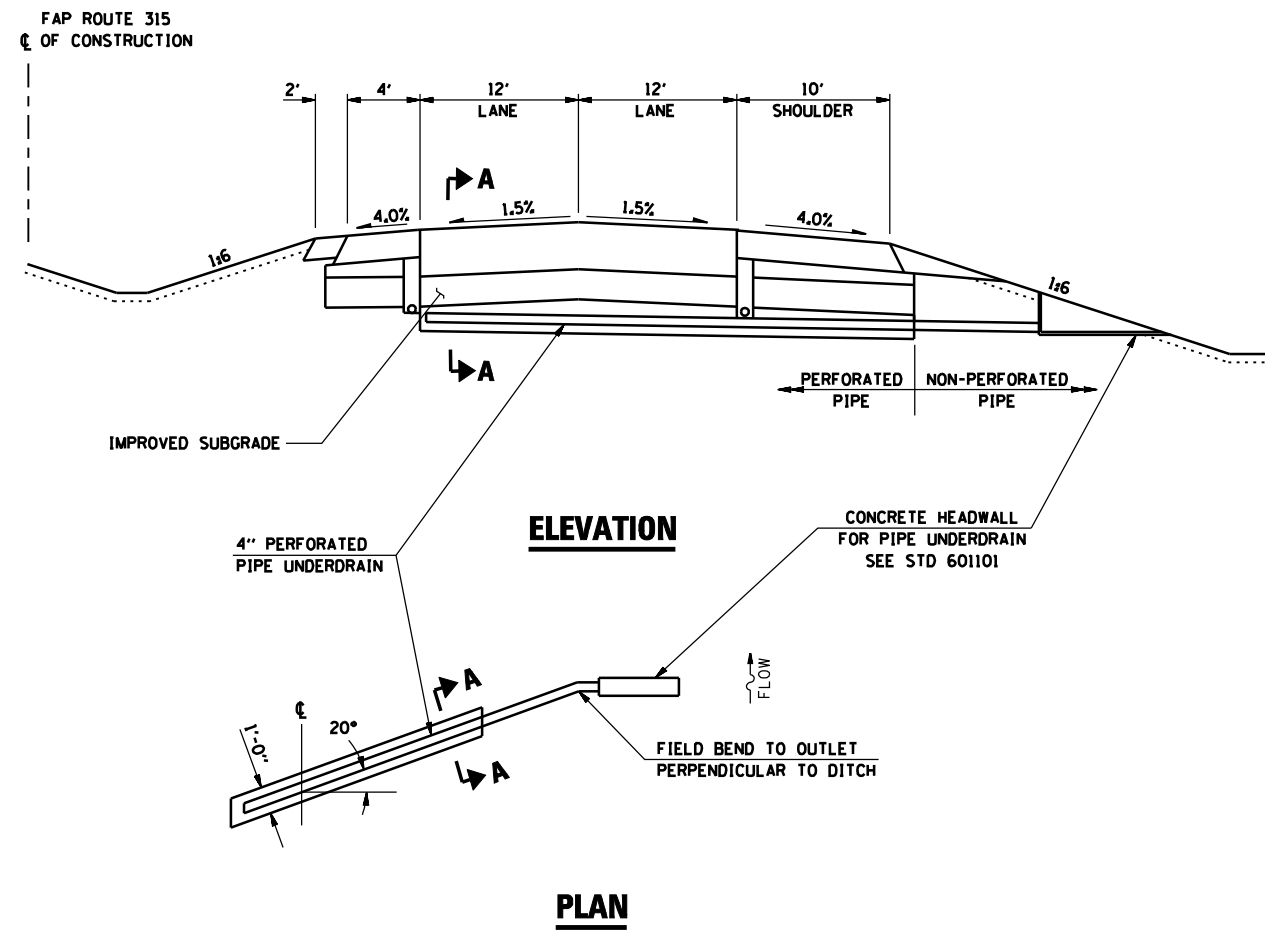
ILLINOIS DEPARTMENT OF TRANSPORTATION

**SPECIAL SLOPE
 CONSTRUCTION DETAILS**

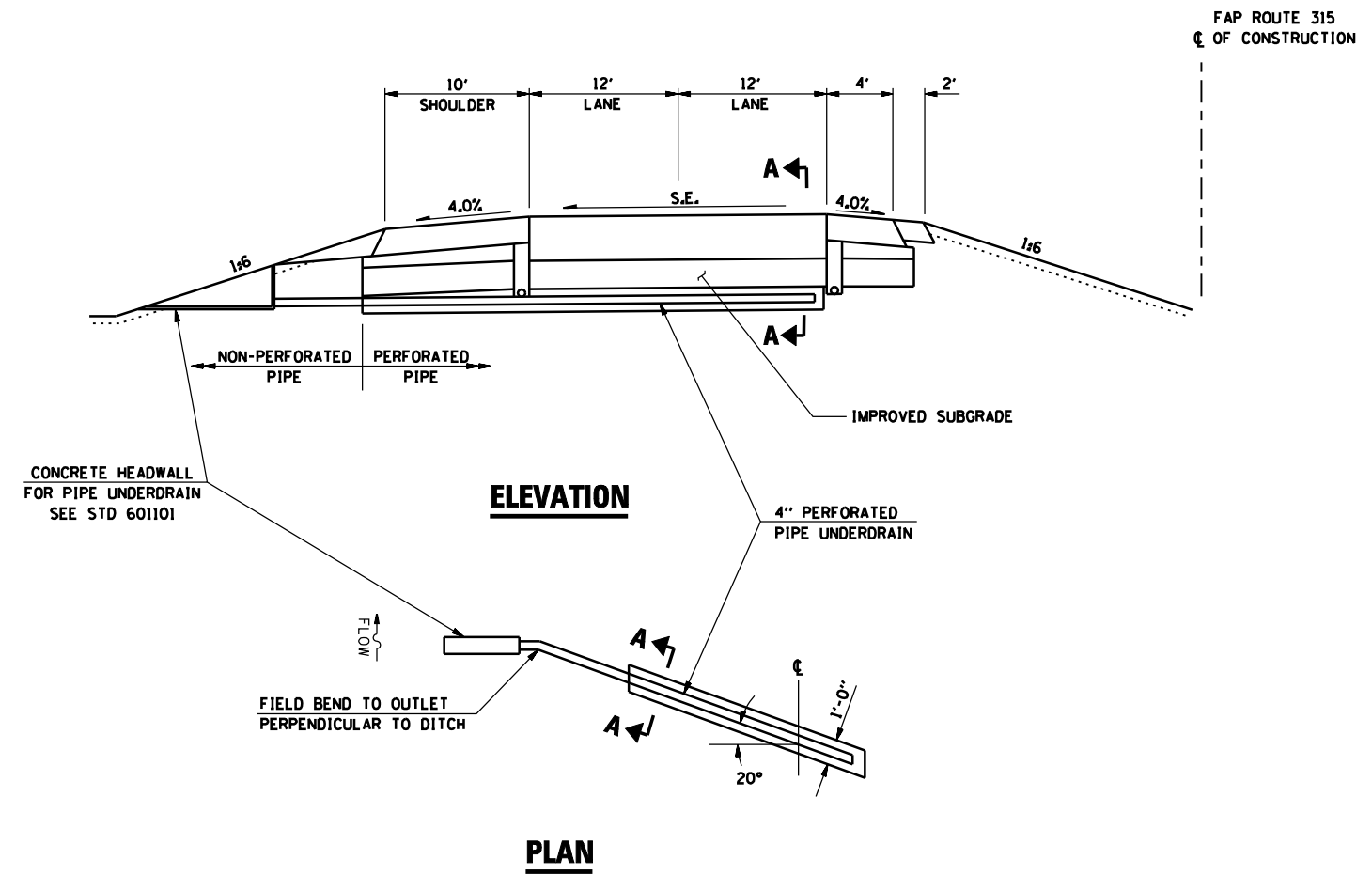
SCALE:
 DATE: MARCH 10, 2006

DRAWN BY: RG
 CHECKED BY: JAC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
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STA.		TO STA.		
FED. ROAD DIST. No.		ILLINOIS FED. AID PROJECT		



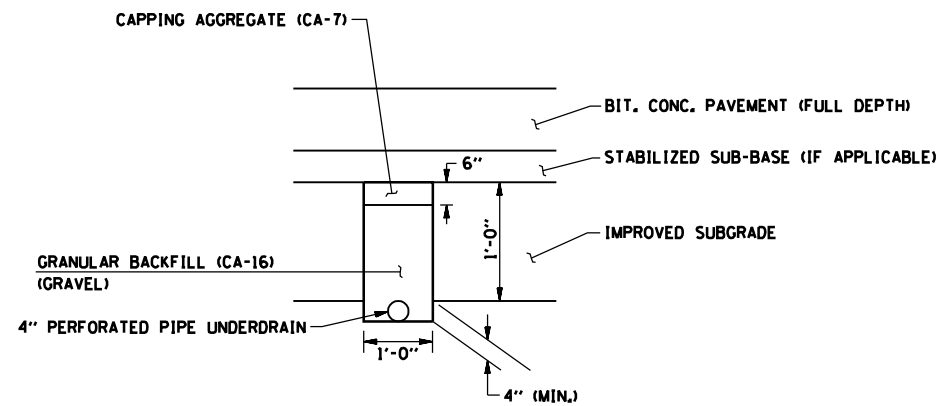
TRANSVERSE DRAIN TANGENT PAVEMENT



TRANSVERSE DRAIN SUPERELEVATED PAVEMENT

GENERAL NOTES

1. TRANSVERSE DRAIN MATERIALS AND CONSTRUCTION SHALL CONFORM TO SECTION 601 OF THE STANDARD SPECIFICATIONS EXCEPT THAT NO FABRIC ENVELOPE IS REQUIRED ON PERFORATED PIPE AND THE GRANULAR BACKFILL GRADATION SHALL BE CA-16 GRAVEL.
2. ALL MATERIALS WILL NOT BE MEASURED SEPARATELY, BUT WILL BE INCLUDED IN THE COST PER UNIT FOR TRANSVERSE DRAINS.
3. SKEW TRANSVERSE DRAIN 20% FORWARD IN DIRECTION OF FLOW.
4. PIPE UNDERDRAINS MAY BE DELETED WITHIN ROCKFILL AREAS WHERE TRANSVERSE DRAINS ARE INSTALLED.



SECTION A-A

REVISIONS	
NAME	DATE

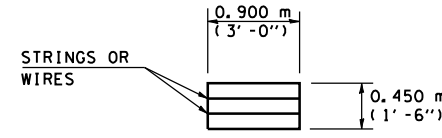
ILLINOIS DEPARTMENT OF TRANSPORTATION

**SPECIAL DETAILS
TRANSVERSE DRAINS**

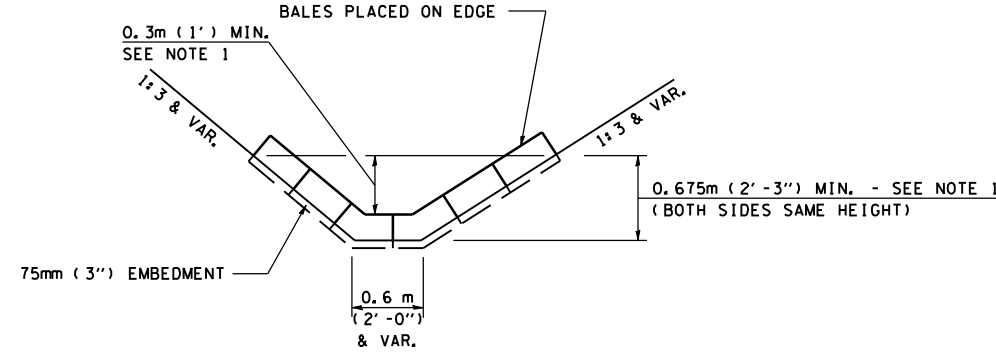
SCALE:
DATE: MARCH 10, 2006

DRAWN BY: RG
CHECKED BY: JAC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	298
STA.		TO STA.		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		



HAY OR STRAW BALE
(TYPICAL ELEVATION)



HAY OR STRAW BALE TEMPORARY DITCH CHECK
(TYPICAL & SEE GENERAL NOTES FOR SUBSTITUTION TO FLUSH RIPRAP DITCH CHECK)

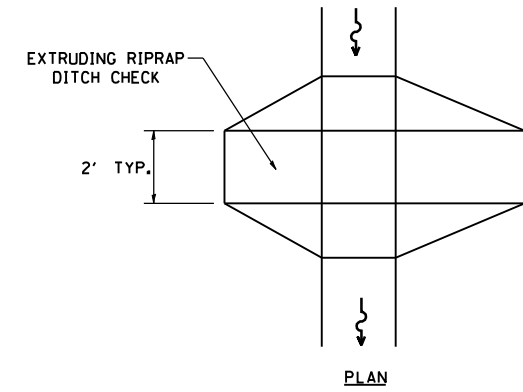
LEGEND FOR STORM WATER POLLUTION PREVENTION PLAN

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

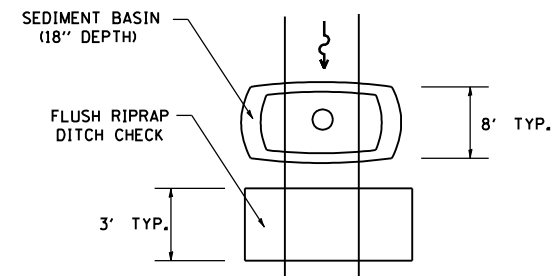
GENERAL NOTES:
All items shall be constructed as shown on this sheet, on Standard 280001, and as directed by the Engineer.

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

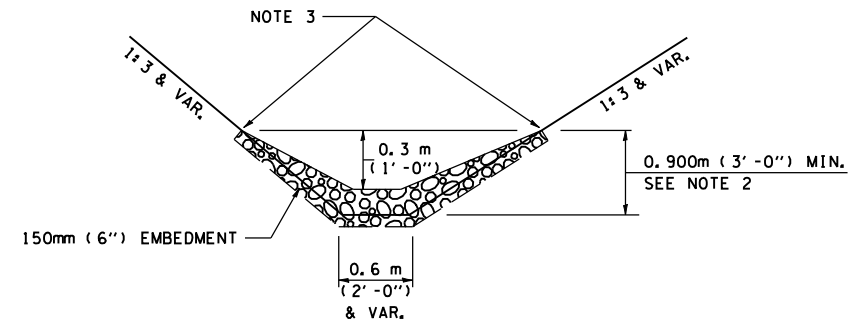
THE CONTRACTOR SHALL INSTALL DITCH CHECKS AS DIRECTED BY THE ENGINEER. IF THE ENGINEER ELECTS TO UTILIZE FLUSH RIPRAP DITCH CHECKS IN LIEU OF TEMPORARY DITCH CHECKS AS SHOWN ON THE FOLLOWING PLAN SHEETS, THE SPACING SHOULD BE DOUBLED.



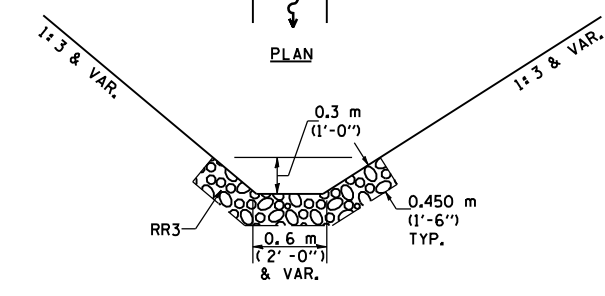
PLAN



PLAN



OPTION 1
(EXTRUDING DITCH CHECK)
RECOMMENDED FOR AREAS
W/ RIPRAP DITCH LINING



OPTION 2
(FLUSH DITCH CHECK)
RECOMMENDED FOR AREAS
W/O RIPRAP DITCH LINING

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

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

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

NOTE 3: ENDS SHALL BE TIED INTO SLOPES.

•DGN-SPEC•
•DATE-TIME•
•REF01

SWPPLAN
D6 PROJECT: FILE:

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
STORM WATER POLLUTION PREVENTION PLAN
SCALE: DATE: MARCH 10, 2006
DRAWN BY: RG
CHECKED BY: JAC

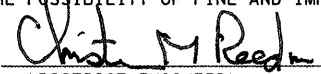
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	299
STA.		TO STA.		
FED. ROAD DIST. No.	ILLINOIS	FED. AID PROJECT		

STORM WATER POLLUTION PREVENTION PLAN

ROUTE: FAP 315 MARKED: IL 336
 SECTION: 34-5
 COUNTY: HANCOCK CONTRACT NO.: 72682

THIS PLAN HAS BEEN PREPARED TO COMPLY WITH THE PROVISION OF THE NPDES PERMIT NUMBER ILR10 _____ ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES.

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRE OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION SUBMITTED, IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.


3/16/06
 (DISTRICT ENGINEER) (DATE)

SITE DESCRIPTION

DESCRIPTION OF CONSTRUCTION ACTIVITY:

1. THE PROPOSED PROJECT CONSISTS OF 4.38 MILES OF CONSTRUCTION OF A NEW FOUR-LANE EXPRESSWAY
2. CONSTRUCTION CONSISTS OF PARTIAL PAVEMENT REMOVAL OF EXISTING US RTE 136 AND CONSTRUCTING A NEW FOUR LANE EXPRESSWAY.
3. CONSTRUCTION IS TO BE DONE IN FOUR STAGES, AND CONSISTS OF GRADING, CONSTRUCTING CULVERTS & DITCHES, PAVING, PLACING SHOULDERS AND OTHER WORK REQUIRED TO COMPLETE THE PROPOSED IMPROVEMENT.

DESCRIPTION OF INTENDED SEQUENCE OF MAJOR CONSTRUCTION ACTIVITIES WHICH WILL DISTURB EARTH AND LEAD TO POSSIBLE EROSION FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE:

1. TREE REMOVAL WILL BE COMPLETED TO CLEAR APPROXIMATELY 52.6 ACRES OF WOODED LAND.
2. EXCAVATION WILL BE COMPLETED ALONG THE ENTIRE LENGTH TO GRADE OUT FOR PROPOSED ROADWAY DITCHES AND WATERWAYS.
3. EXCAVATION WILL ALSO BE COMPLETED IN PROPOSED CUT SECTIONS TO LOWER THE EXISTING GROUND ELEVATION TO MEET THE PROPOSED ROADWAY GRADE/VERTICAL ALIGNMENT.
4. EMBANKMENT WILL BE COMPLETED IN FILL AREAS TO RAISE THE EXISTING GROUND ELEVATION TO MEET THE PROPOSED ROADWAY FORESLOPE AND BACKSLOPE.
5. DRAINAGE STRUCTURES WILL BE INSTALLED BEFORE AND/OR DURING THE CONSTRUCTION OF THE EXCAVATION AND EMBANKMENT TO ALLOW PROPER DRAINAGE ACROSS THE PROPOSED TWO LANE FACILITY.
6. PLACEMENT, MAINTENANCE, REMOVAL AND PROPER CLEAN-UP OF TEMPORARY EROSION CONTROL, SUCH AS EROSION CONTROL FENCE, HAY OR STRAW BALE DITCH CHECKS, RIPRAP DITCH CHECKS, SEDIMENT BASINS, TEMPORARY SEEDING, ETC.
7. PLACEMENT OF PERMANENT EROSION CONTROL, SUCH AS RIPRAP DITCH LINING, RIPRAP STILLING BASINS, RIPRAP DRY DAMS, EXCELSIOR BLANKET, SEEDING, ETC.
8. FINAL GRADING, PAVING AND OTHER MISCELLANEOUS ITEMS.

THE FOLLOWING PLAN WAS ESTABLISHED AND INCLUDED IN THESE PLANS TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES. THE CONTRACTOR SHALL ABIDE TO ALL REQUIREMENTS WITHIN THIS PLAN AS PART OF THE CONTRACT.

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

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

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

THE SPECIAL PROVISIONS TEMPORARY SEEDING AND TEMPORARY EROSION CONTROL ADDITIONALLY SUPPLEMENT THIS PLAN.

ALL DISTURBED AREAS HAVING HIGH POTENTIAL FOR EROSION, AS DETERMINED BY THE ENGINEER, SHALL BE TEMPORARILY SEEDED OR PERMANENTLY SEEDED BY OCTOBER 1 OF EACH CONSTRUCTION YEAR, AND SHALL NOT BE REOPENED UNTIL AFTER THE WINTER SHUTDOWN PERIOD.

AREA OF CONSTRUCTION SITE:
 APPROXIMATELY 107.1 ACRES WILL BE DISTURBED BY EXCAVATION, GRADING OR OTHER ACTIVITIES.

DRAINAGE TRIBUTARIES RECEIVING WATER FROM THIS CONSTRUCTION SITE:

1. TRIBUTARY TO LA MOINE RIVER

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		STORM WATER POLLUTION PREVENTION PLAN

SCALE: DATE: MARCH 10, 2006 DRAWN BY: RG CHECKED BY: JAC

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03/09/06

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET No.
315	34-5	HANCOCK	612	300
STA.		TO STA.		
FED. ROAD DIST. No.		ILLINOIS	FED. AID PROJECT	

CONTROLS - EROSION CONTROLS AND SEDIMENT CONTROLS

Description of Stabilization Practices at the Beginning of Construction:

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

Description of Stabilization Practices During Construction:

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

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

Description of Structural Practices After Final Grading:

- Temporary erosion control systems shall be left in place with proper maintenance until permanent erosion control is in place and working properly and all proposed turf areas seeded and established with a proper stand.
- Once permanent erosion control systems as proposed in the plans are functional and established, temporary items shall be removed, cleaned up, and disturbed turf reseeded. Temporary riprap ditch checks will be allowed to remain in place where approved by the Engineer.

Maintenance after Construction:

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

DOCUMENTATION

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

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

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

STORM WATER POLLUTION PREVENTION PLAN

SCALE: DATE: MARCH 10, 2006

DRAWN BY: RG CHECKED BY: JAC

DGN-SPEC
 DATE-TIME
 *REF01

SWPPLAN

D6 PROJECT: FILE: .