







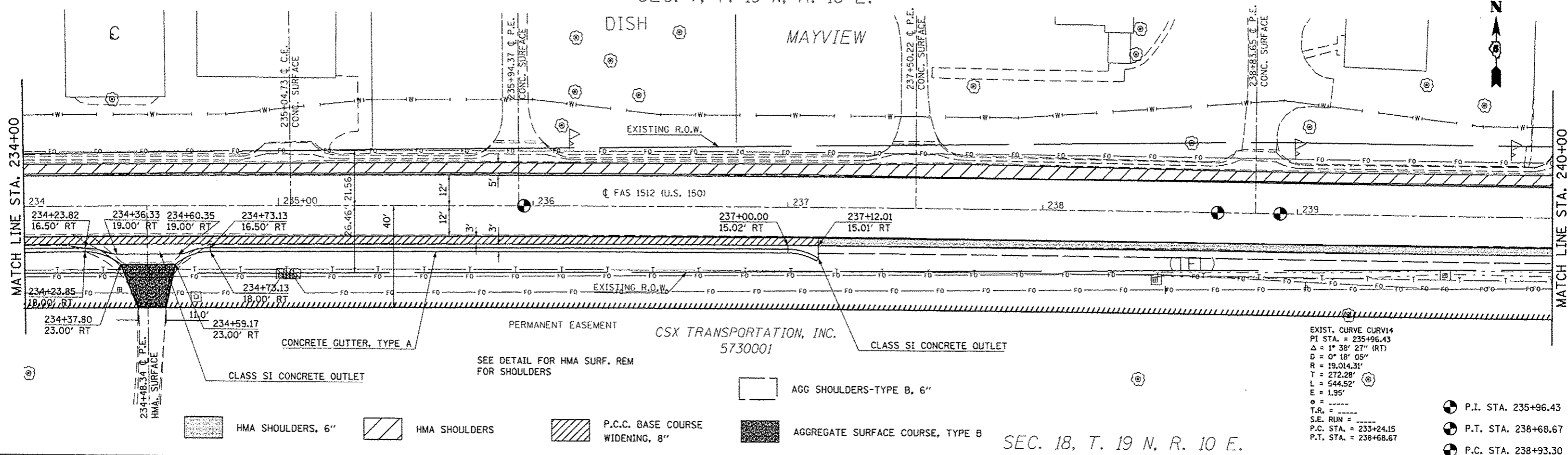






SEC. 7, T. 19 N, R. 10 E.

PLAN	DATE
BY	
DATE	
NO.	
DATE	
BY	
DATE	
NO.	

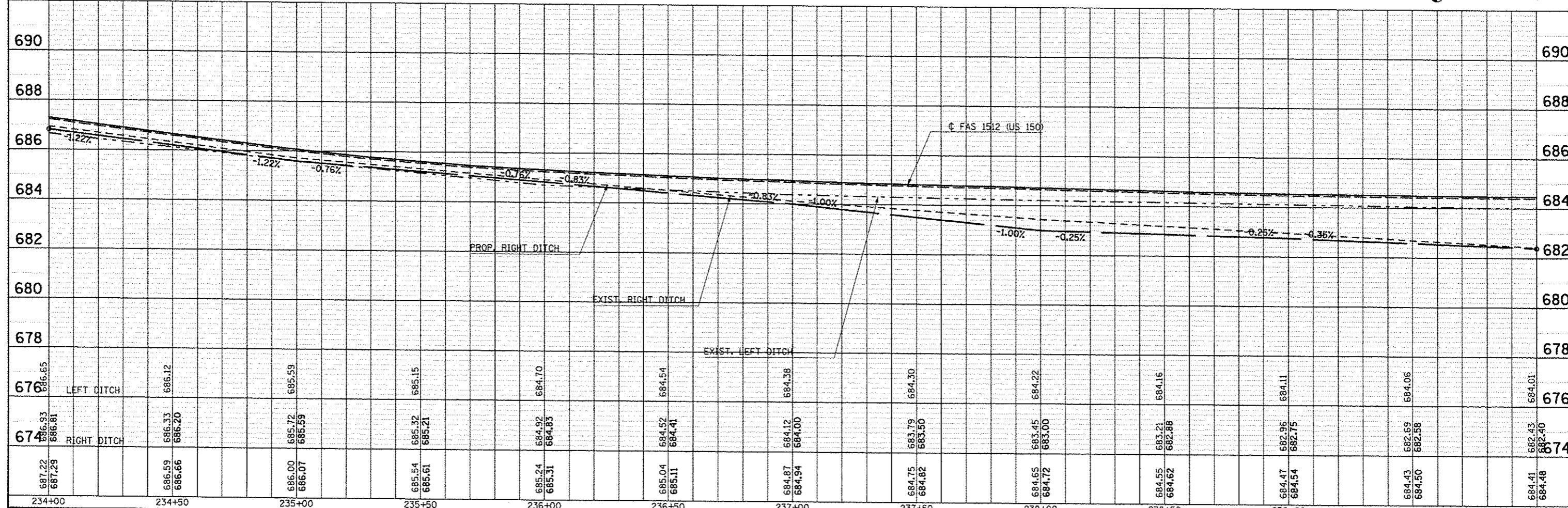


EXIST. CURVE CURV14  
 PI STA. = 235+96.43  
 Δ = 1° 38' 27" (RT)  
 D = 0° 18' 05"  
 R = 19,014.31'  
 T = 272.28'  
 L = 544.52'  
 E = 1.95'

- P.I. STA. 235+96.43
- P.T. STA. 238+68.67
- P.C. STA. 238+93.30

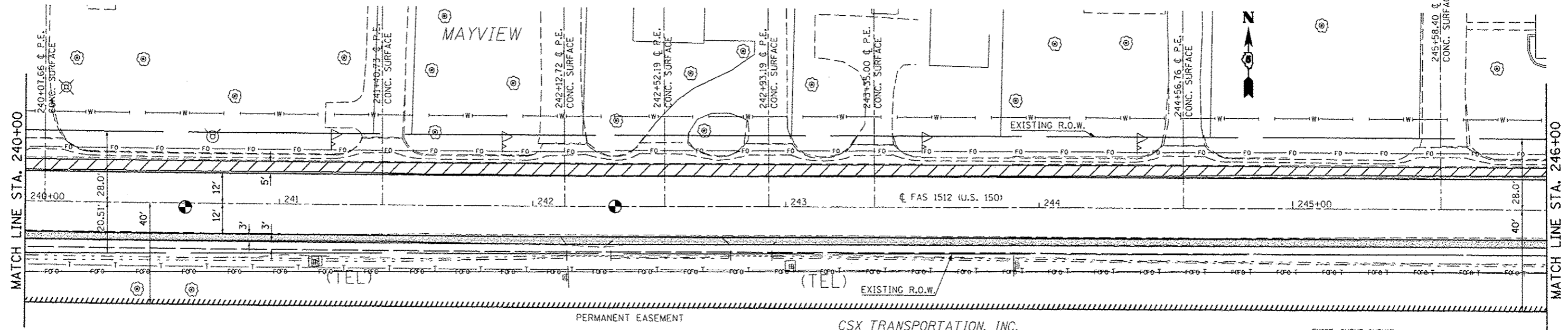
SEC. 18, T. 19 N, R. 10 E.

PROFILE	DATE
BY	
DATE	
NO.	
DATE	
BY	
DATE	
NO.	



FILE NAME: c:\work\paidot\conrlook\j\0120316\05763-ahp-plnpr.fgn	USER NAME: conrlook.j	DESIGNED: JMS	REVISED: -	<p align="center"><b>STATE OF ILLINOIS</b>  <b>DEPARTMENT OF TRANSPORTATION</b></p> <p align="center"><b>US 150 MAINLINE</b>  <b>PLAN AND PROFILE SHEET</b></p> <p>SCALE: 1" = 20'    SHEET NO. 24 OF 54 SHEETS    STA. 234+00.00 TO STA. 240+00.00</p>	F.A.U. RTE.:	SECTION:	COUNTY:	TOTAL SHEETS:	SHEET NO.:
PLOT SCALE: 48.0000 / in.	CHECKED: -	REVISED: -	F.A.U. 7152 & F.A.S. 1512		(2X,3RS-3 & 2RS-4	Champaign	551	105	
PLOT DATE: 10/10/2013	DATE: 081610	REVISED: -	CONTRACT NO. 70663						
			ILLINOIS FED. AID PROJECT						

SEC. 7, T. 19 N, R. 10 E.

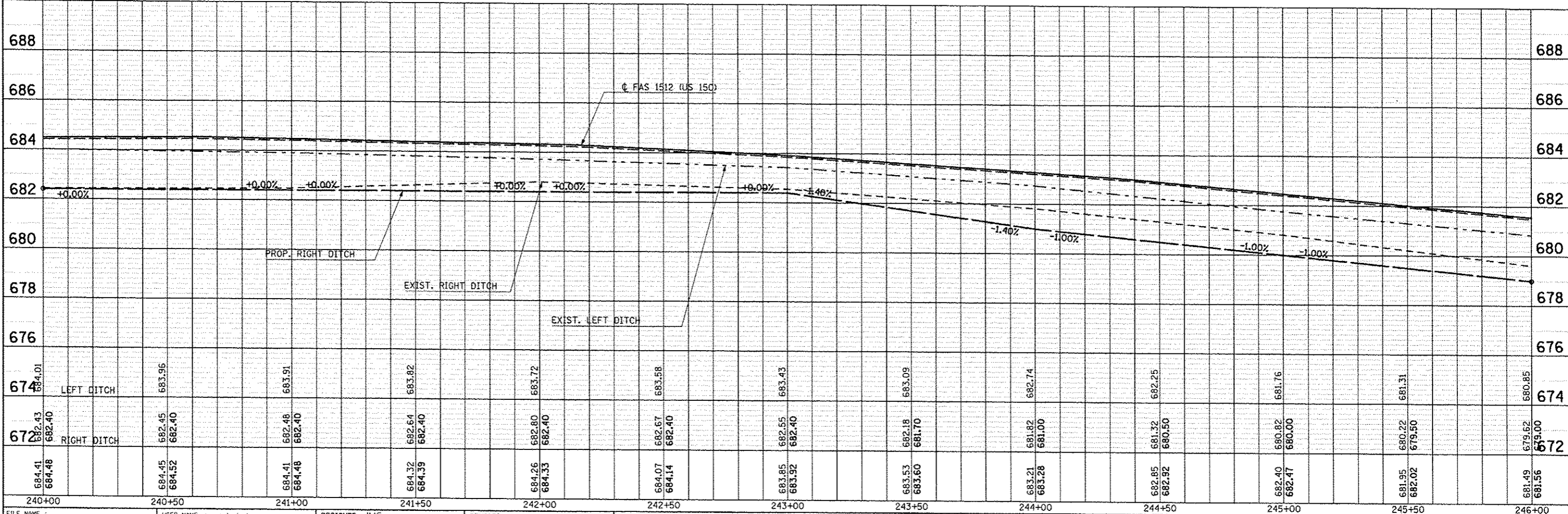


EXIST. CURVE CURVIT  
 PI STA. = 240+62.93  
 Δ = 1° 01' 06" (LT)  
 D = 0° 18' 01"  
 R = 19,087.09'  
 T = 169.62'  
 L = 339.23'  
 E = 0.75'  
 P.I. STA. 240+62.93  
 P.T. STA. 242+32.54

HMA SHOULDERS, 6"      HMA SHOULDERS

SEE DETAIL FOR HMA SURF. REM FOR SHOULDERS

SEC. 18, T. 19 N, R. 10 E.



FILE NAME : c:\p\work\p1\dot\carlock\ad0128316\0574663-sh1-pl\pr.f.dgn	USER NAME : carlock_jd	DESIGNED : JMS	REVISED : -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>US 150 MAINLINE PLAN AND PROFILE SHEET</b>	F.A.U. RTE.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE : 48.0000 / 1" = 48'	CHECKED : -	DATE : 081610	REVISED : -			• (2X,3)RS-3 & 2RS-4	Champaign	551	106	
PLOT DATE : 10/18/2013	DATE : 081610	REVISED : -	REVISED : -			• F.A.U. 7152 & F.A.S. 1512	CONTRACT NO. 70663			
			[ILLINOIS] FED. AID PROJECT							

DATE	
BY	
DESIGNED	
PLOTTED	
ALIGNMENT CHECKED	
NOTE BOOK NO.	
DATE FILE NAME	

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







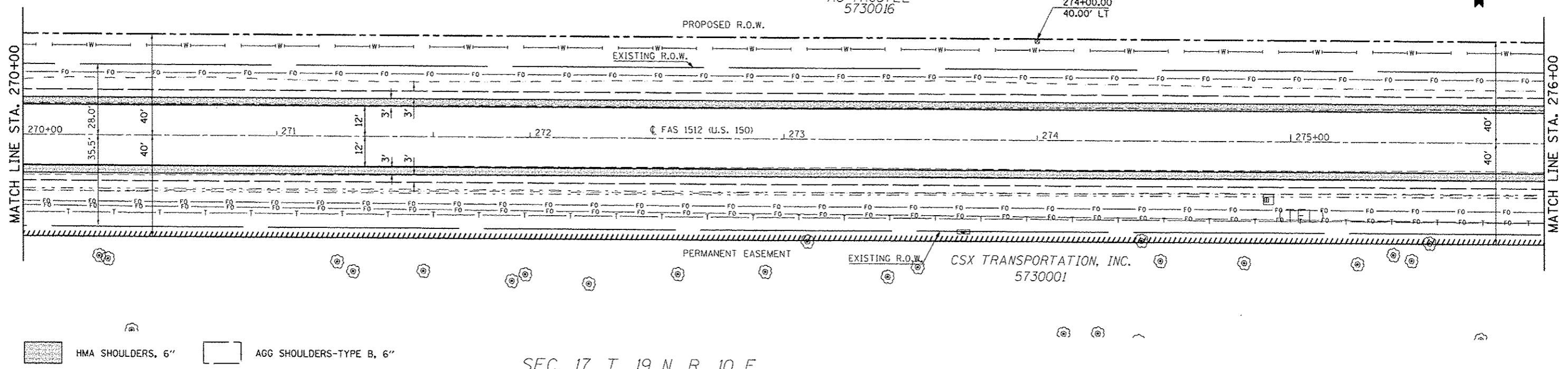






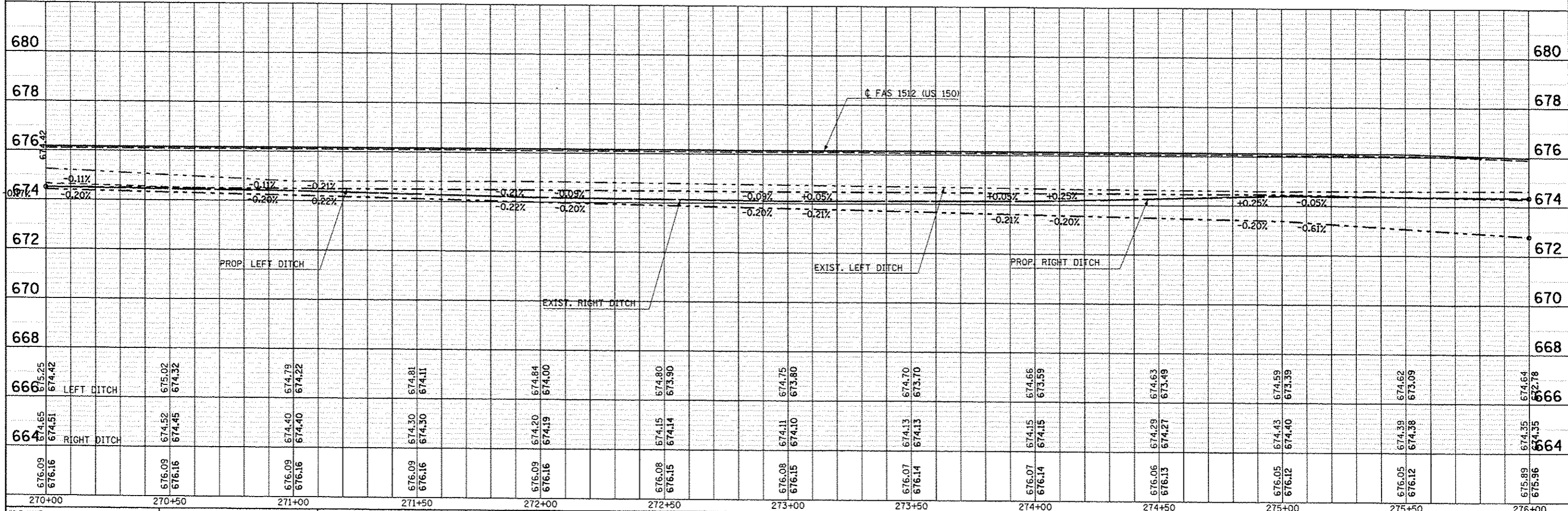
SEC. 8, T. 19 N, R. 10 E.

28-22-08-300-013  
 BUSBOOM, DALE H.  
 BUSBOOM, LORETTA J.  
 AS TRUSTEE  
 5730016



HMA SHOULDERS, 6"  
 AGG SHOULDERS-TYPE B, 6"

SEC. 17, T. 19 N, R. 10 E.



FILE NAME: c:\p\work\p10201\caerlockj\282316-057663-sh1-plnpr-f.dgn PLOT SCALE: 40.0000' / in. PLOT DATE: 10/18/2013	USER NAME: caerlockj DESIGNED: JMS DRAWN: JMS CHECKED: - DATE: 081610	REVISED: - REVISED: - REVISED: - REVISED: -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>US 150 MAINLINE</b> <b>PLAN AND PROFILE SHEET</b>	F.A.U. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO. • (2X,3RS-3 & 2RS-4) Champaign 551 111 • F.A.U. 7152 & F.A.S. 1512 CONTRACT NO. 70663 ILLINOIS FED. AID PROJECT
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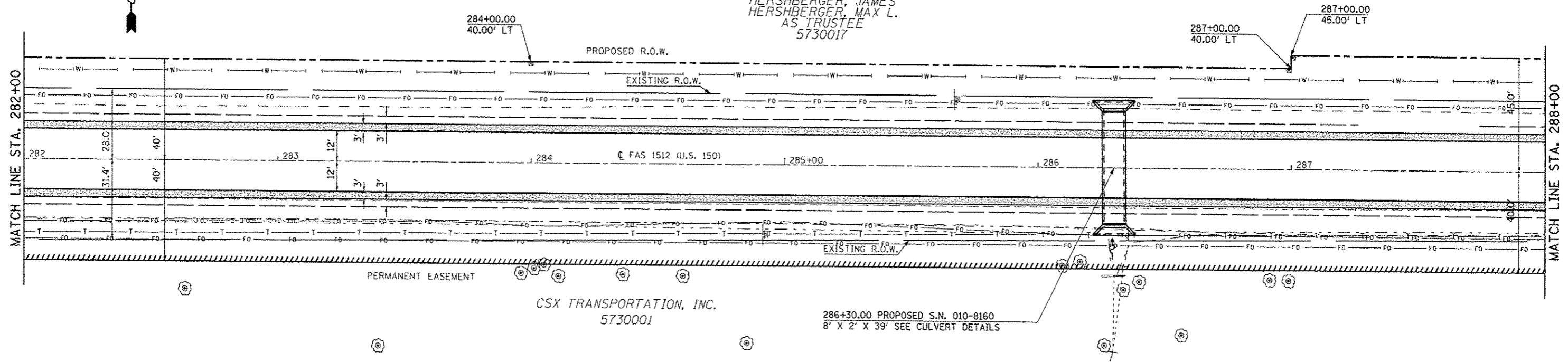
PLAN	SUBMITTED	DATE
NOTE BOOK NO.	PLOTTED	
NO.	AT 100% MAX CHECKED	
	FILE NAME	

PROFILE	SUBMITTED	DATE
NOTE BOOK NO.	PLOTTED	
NO.	GRADES CHECKED	
	STRUCTURE NOTATION CHECKED	



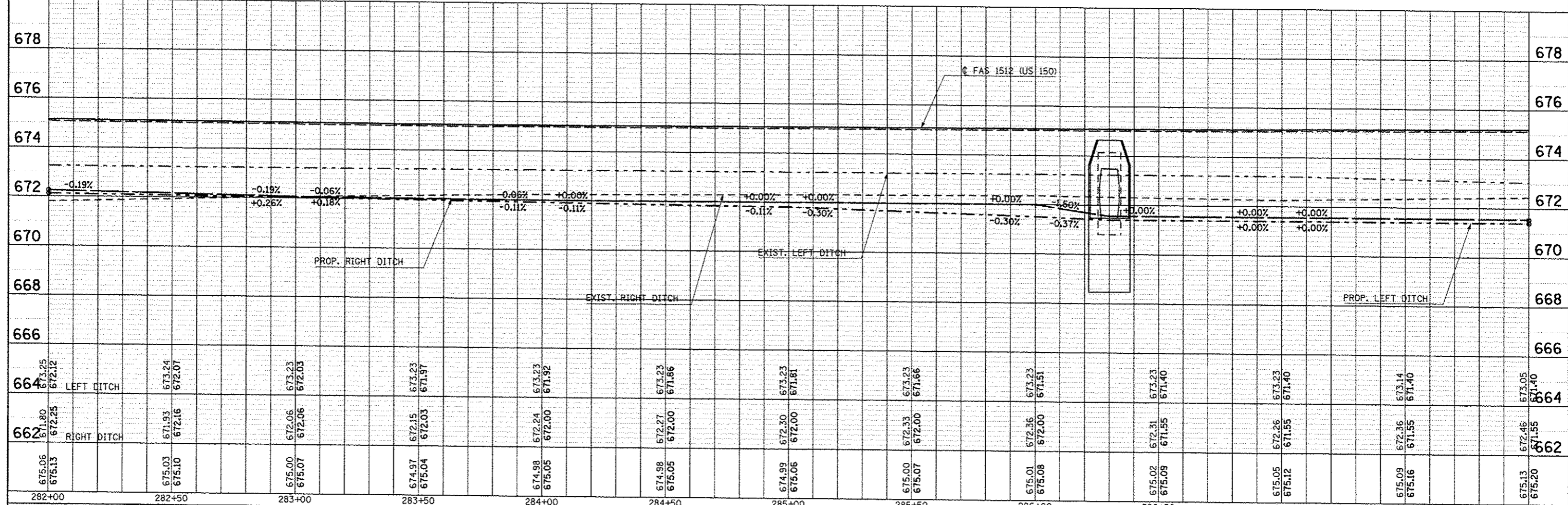
SEC. 8, T. 19 N, R. 10 E.

28-22-08-400-003  
HERSHBERGER, JAMES  
HERSHBERGER, MAX L.  
AS TRUSTEE  
5730017



AGGREGATE SURFACE COURSE, TYPE B  
 HMA SHOULDERS, 8"  
 AGG SHOULDERS-TYPE B, 6"

SEC. 17, T. 19 N, R. 10 E.



282+00	282+50	283+00	283+50	284+00	284+50	285+00	285+50	286+00	286+50	287+00	287+50	288+00
675.06 675.13	675.03 675.10	675.00 675.07	674.97 675.04	674.98 675.05	674.98 675.05	674.99 675.06	675.00 675.07	675.01 675.08	675.02 675.09	675.05 675.12	675.09 675.16	675.13 675.20
672.25 672.25	671.93 672.16	672.06 672.06	672.15 672.03	672.24 672.00	672.27 672.00	672.30 672.00	672.33 672.00	672.35 672.00	672.51 671.55	672.26 671.55	672.36 671.55	672.45 671.55
673.25 672.12	673.24 672.07	673.23 672.03	673.23 671.97	673.23 671.92	673.23 671.86	673.23 671.81	673.23 671.66	673.23 671.51	673.23 671.40	673.23 671.40	673.14 671.40	673.05 671.40

PLAN	DATE
REVISED	
PLOTTED	
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NO.	

PROFILE	DATE
REVISED	
PLOTTED	
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NO.	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

US 150 MAINLINE  
PLAN AND PROFILE SHEET

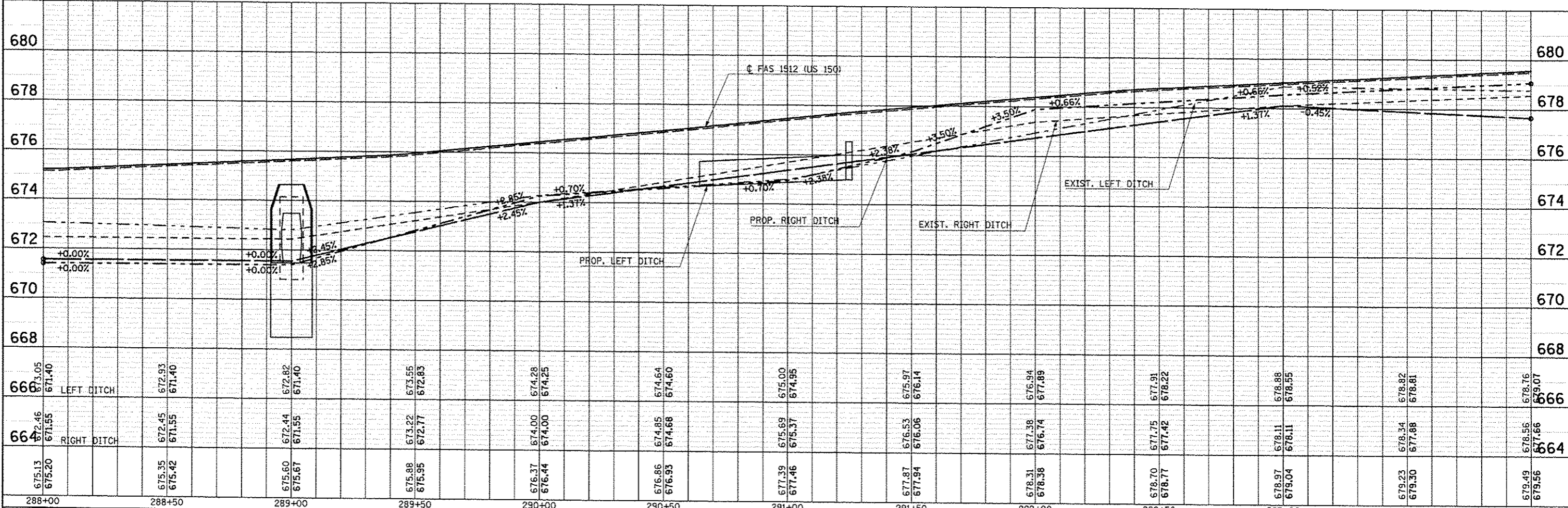
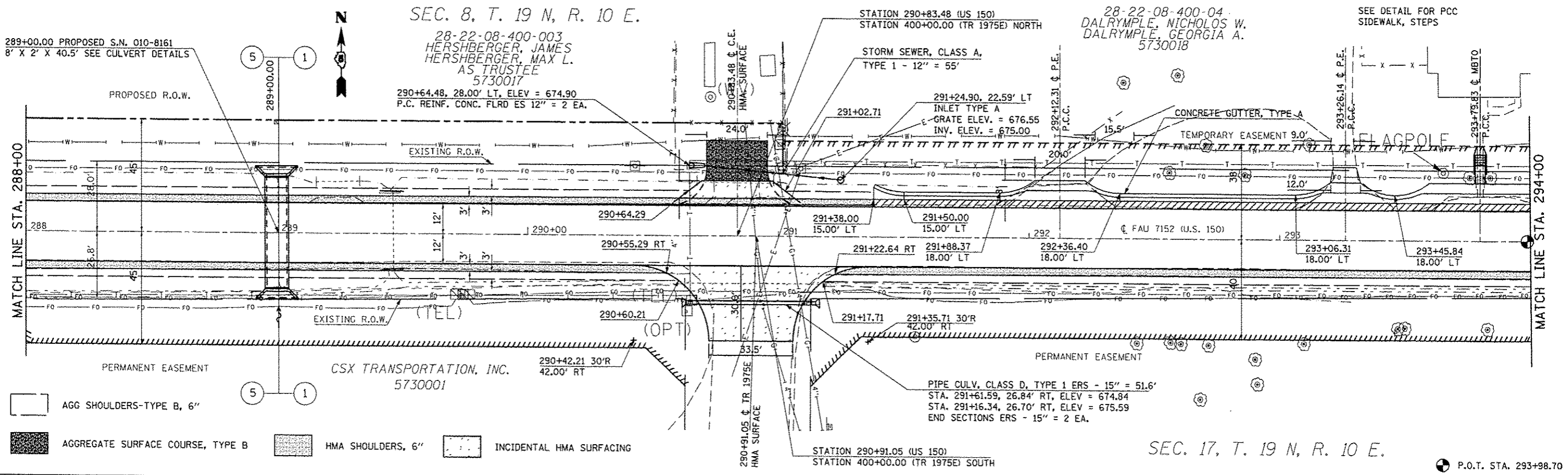
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(2X,3RS-3 & 2RS-4)	Champaign	551	113
F.A.U. 7152 & F.A.S. 1512			CONTRACT NO. 70663	

SCALE: 1" = 20' SHEET NO. 32 OF 54 SHEETS STA. 282+00.00 TO STA. 288+00.00



DATE	
BT	
PROJECT NO.	
PLANNING	
DESIGN	
CONSTRUCTION	
AS BUILT	

DATE	
BT	
PROJECT NO.	
PLANNING	
DESIGN	
CONSTRUCTION	
AS BUILT	



FILE NAME:	USER NAME: ceo-look	DESIGNED: JMS	REVISED: -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>US 150 MAINLINE</b> <b>PLAN AND PROFILE SHEET</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DRAWN: JMS	CHECKED: -	REVISED: -	28-22-08-400-04			(2X,3RS-3 & 2RS-4)	Champaign	551	114	
DATE: 081610	REVISOR: -	REVISOR: -	F.A.U. 7152 & F.A.S. 1512			CONTRACT NO. 70663	ILLINOIS FED. AID PROJECT			
SCALE: 1" = 20'	SHEET NO. 33 OF 54 SHEETS	STA. 288+00.00 TO STA. 294+00.00								



EXIST. CURVE CURV24  
 PI STA. = 301+87.53  
 Δ = 2° 10' 21" (LT)  
 D = 0° 30' 09"  
 R = 11,401.14'  
 T = 216.18'  
 L = 432.31'  
 E = 2.05'  
 ● = ●  
 T.R. = ●  
 S.E. RUN = ●  
 P.C. STA. = 299+71.35  
 P.T. STA. = 304+03.66

28-22-08-400-003  
 HERSHBERGER, JAMES  
 HERSHBERGER, MAX L.  
 AS TRUSTEE  
 5730017

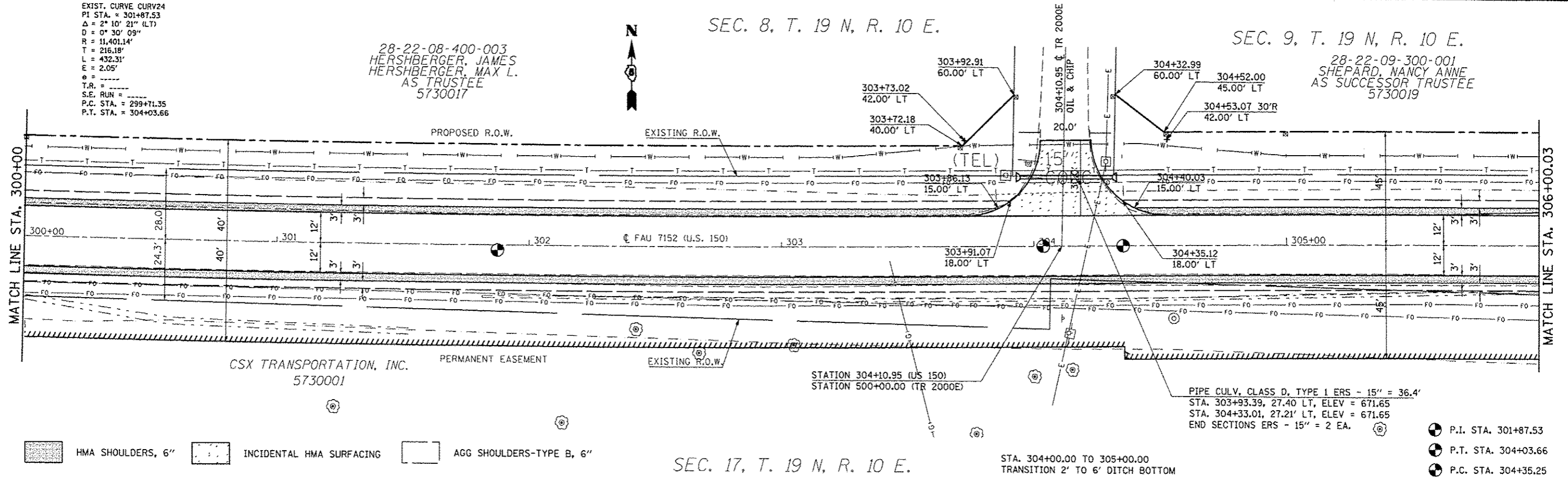
SEC. 8, T. 19 N, R. 10 E.

SEC. 9, T. 19 N, R. 10 E.

28-22-09-300-001  
 SHEPARD, NANCY ANNE  
 AS SUCCESSOR TRUSTEE  
 5730019

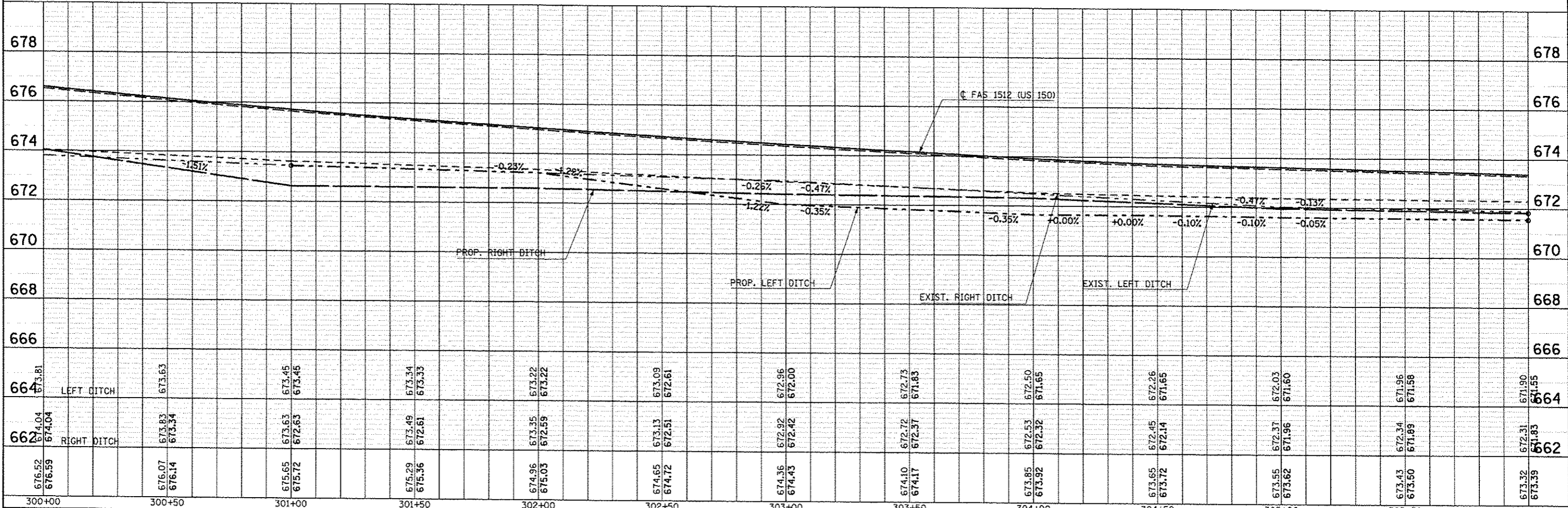
DATE	
BY	
REVISION	
PLAN	
NOTE BOOK	
NO.	

DATE	
BY	
REVISION	
PROFILE	
NOTE BOOK	
NO.	



SEC. 17, T. 19 N, R. 10 E.

STA. 304+00.00 TO 305+00.00  
 TRANSITION 2' TO 6" DITCH BOTTOM



FILE NAME: c:\p\work\p\dot\c\c\lock\j\d8120316\057663-sh1-plnprf.dgn	USER NAME: cee-lock_j	DESIGNED: JMS	REVISED: -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 150 MAINLINE PLAN AND PROFILE SHEET			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE: 48,00000' / in.		DRAWN: JMS	REVISED: -		1	(2X,3RS-3 & 2RS-4	Champaign	551	116			
PLOT DATE: 10/18/2013		CHECKED: -	REVISED: -		2	F.A.U., 7152 & F.A.S. 1512			CONTRACT NO. 70663			
		DATE: 081610	REVISED: -		3	ILLINOIS FED. AID PROJECT						

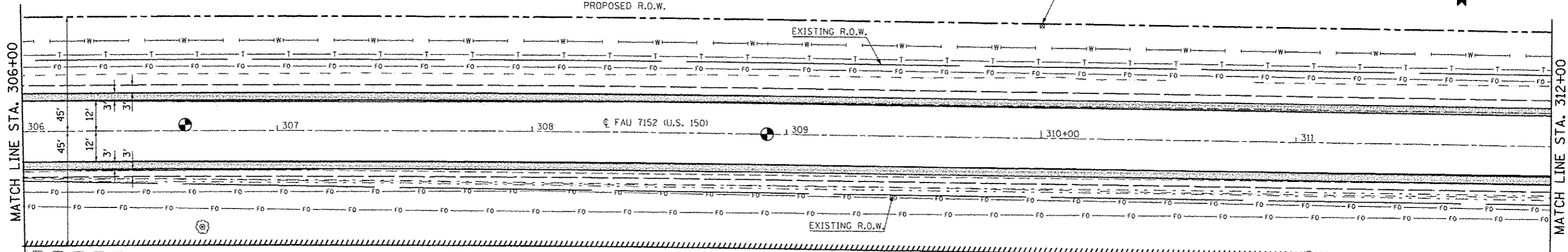


SEC. 9, T. 19 N, R. 10 E.

28-22-09-300-001  
SHEPARD, NANCY ANNE  
AS SUCCESSOR TRUSTEE  
5730019



PLAN	DATE
BY	
CHECKED	
NO. OF SHEETS	
NO. OF SHEETS CHECKED	
NO. OF SHEETS DESIGNED	
NO. OF SHEETS PLOTTED	
NO. OF SHEETS PRINTED	
NO. OF SHEETS REVISIONS	
NO. OF SHEETS TOTAL	



- AGG SHOULDERS-TYPE B, 6"
- HMA SHOULDERS, 6"
- P.I. STA. 306+63.80
- P.T. STA. 308+92.29

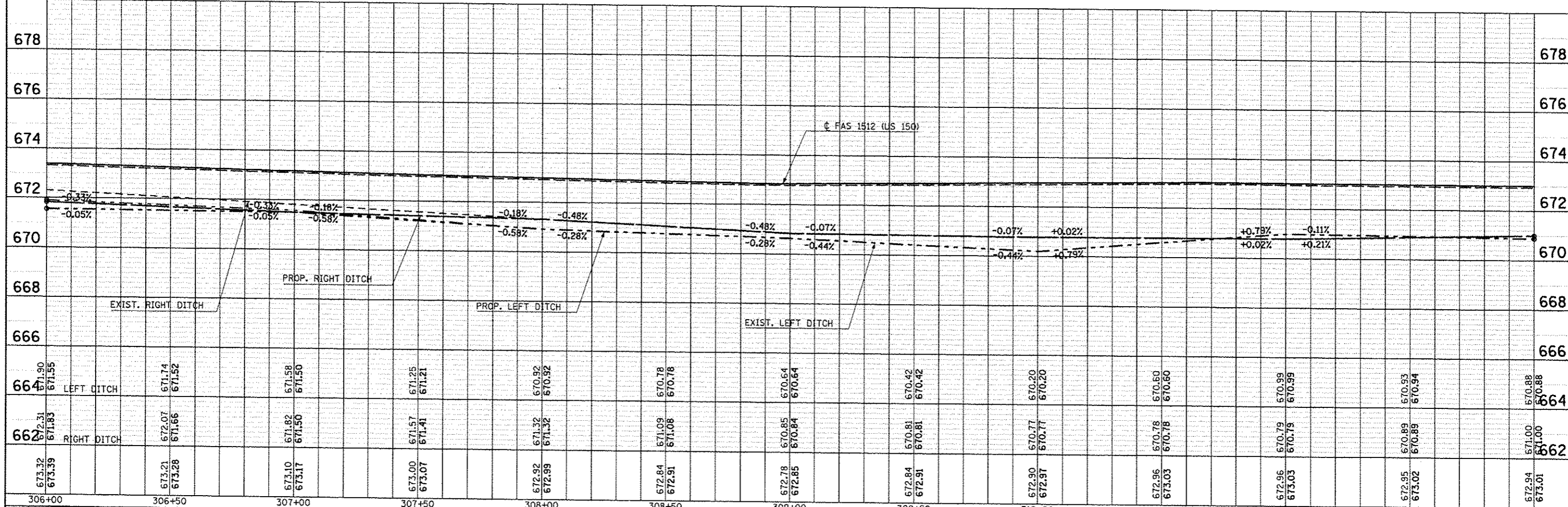
EXIST. CURVE CURV25  
PI STA. = 306+63.80  
 $\Delta = 2^\circ 17' 43''$  (RT)  
D = 0' 30' 08"  
R = 11,409.04'  
T = 228.55'  
L = 457.04'  
E = 2.29'  
S.E. RUN =  
P.C. STA. = 304+35.25  
P.T. STA. = 308+92.29

CSX TRANSPORTATION, INC.  
5730001

SEC. 17, T. 19 N, R. 10 E.

SEC. 16, T. 19 N, R. 10 E.

PROFILE	DATE
BY	
CHECKED	
NO. OF SHEETS	
NO. OF SHEETS CHECKED	
NO. OF SHEETS DESIGNED	
NO. OF SHEETS PLOTTED	
NO. OF SHEETS PRINTED	
NO. OF SHEETS REVISIONS	
NO. OF SHEETS TOTAL	



FILE NAME =	USER NAME = ceerlock_jd	DESIGNED JMS	REVISED -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>US 150 MAINLINE</b> <b>PLAN AND PROFILE SHEET</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ce:\pwork\pwork\ceerlock_jd\0120316\0579	663-shs-plnpr.f.dgn	DRAWN JMS	REVISED -			•	(2X,3RS-3 & 2RS-4	Champaign	551	117	
PLOT SCALE = 40.00000' / 1"		CHECKED -	REVISED -			• F.A.U. 7152 & F.A.S. 1512 CONTRACT NO. 70663					
PLOT DATE = 10/10/2013		DATE 081610	REVISED -			ILLINOIS FED. AID PROJECT					

SEC. 9, T. 19 N, R. 10 E.

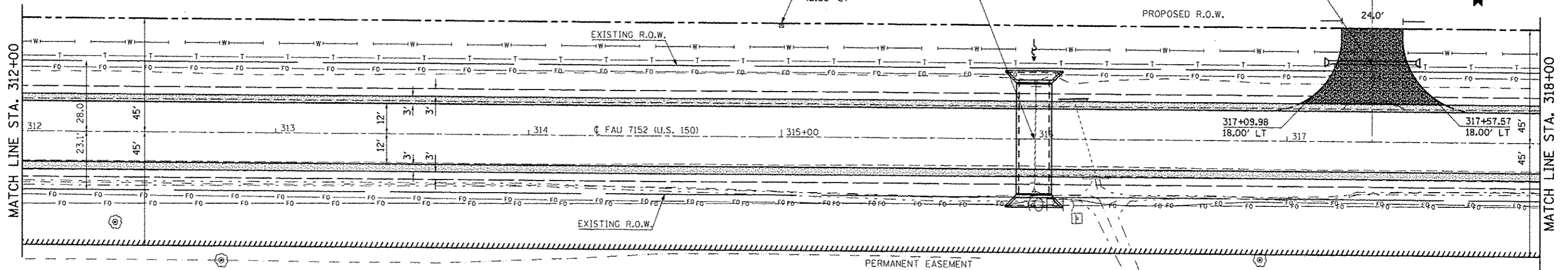
28-22-09-300-001  
SHEPARD, NANCY ANNE  
AS SUCCESSOR TRUSTEE  
5730019

316+00.00 PROPOSED S.N. 010-8162  
12' X 2' X 40.5' SEE CULVERT DETAILS

PIPE CULV. CLASS D, TYPE 1 - 15" = 34.6'  
STA. 317+14.86, 31.40' LT, ELEV = 669.40  
STA. 317+52.62, 31.41' LT, ELEV = 669.31  
END SECTIONS - 15" = 2 EA.

315+00.00  
45.00' LT

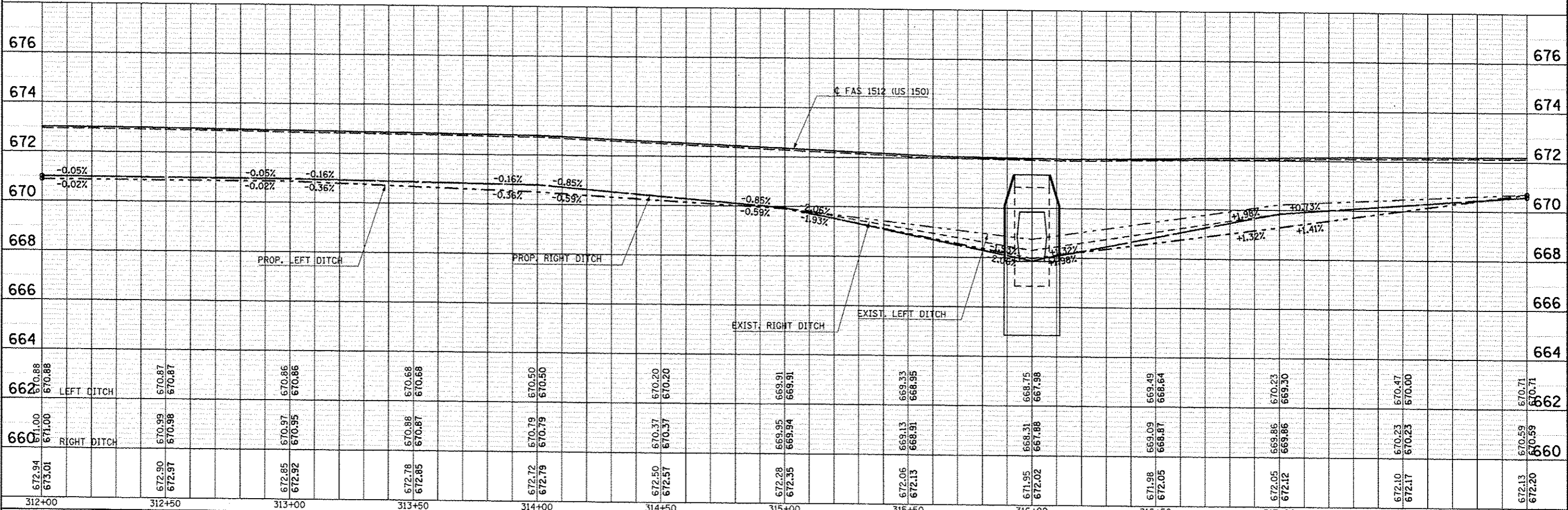
317+33.72 & F.E.  
HMA SURFACE



CSX TRANSPORTATION, INC.  
5730001

- HMA SHOULDERS, 6"
- AGGREGATE SURFACE COURSE, TYPE B
- AGG SHOULDERS-TYPE B, 6"

SEC. 16, T. 19 N, R. 10 E.



FILE NAME :	USER NAME : cearlockjd	DESIGNED JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 150 MAINLINE PLAN AND PROFILE SHEET	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS
ct:\pwork\p1010\c\cearlockjd\28316\057063-sh1-plnpr1.dgn	cearlockjd	DRAWN JMS	REVISED -			• (2X)RS-3 & 2RS-4	Champaign	551	118
PLOT SCALE = 48.0000' / 1"		CHECKED -	REVISED -			• F.A.U. 7152 & F.A.S. 1512			CONTRACT NO. 70663
PLOT DATE = 10/18/2013		DATE 081610	REVISED -			ILLINOIS FED. AID PROJECT			

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

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

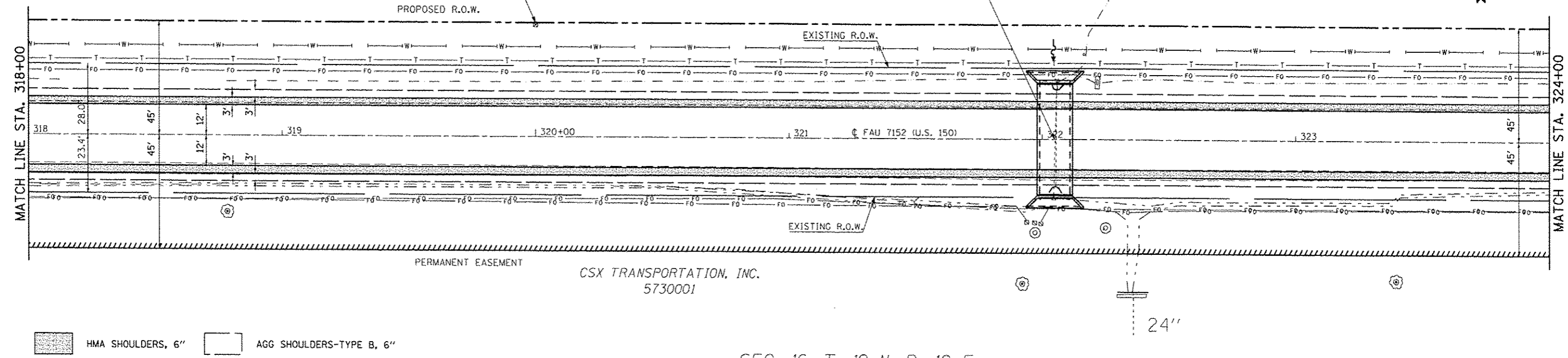
SEC. 9, T. 19 N, R. 10 E.



28-22-09-300-001  
SHEPARD, NANCY ANNE  
AS SUCCESSOR TRUSTEE  
5730019

322+05.00 PROPOSED S.N. 010-8163  
12' X 2' X 41' SEE CULVERT DETAILS

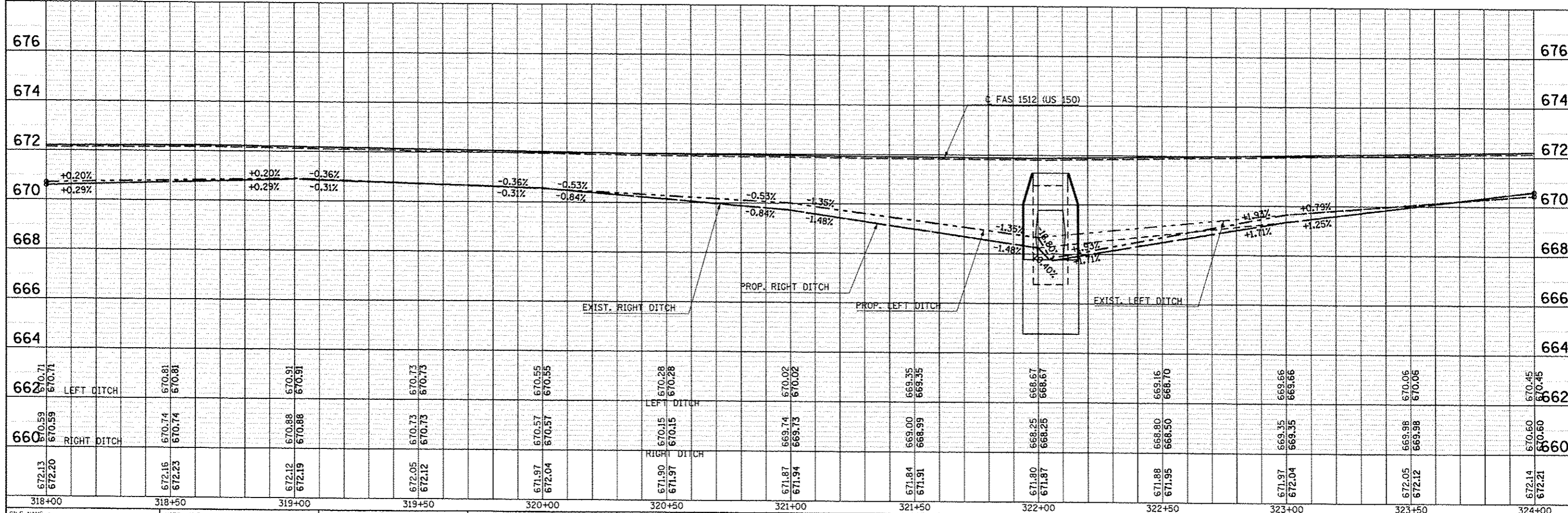
PLAN	DATE
BY	
NO.	
NO.	
NO.	



PERMANENT EASEMENT  
CSX TRANSPORTATION, INC.  
5730001

SEC. 16, T. 19 N, R. 10 E.

PROFILE	DATE
BY	
NO.	
NO.	
NO.	



FILE NAME :	USER NAME :	DESIGNED :	REVISED :	<p align="center"><b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b></p> <p align="center"><b>US 150 MAINLINE</b> <b>PLAN AND PROFILE SHEET</b></p>	<table border="1"> <tr> <th>F.A.U. RTE.</th> <th>SECTION</th> <th>COUNTY</th> <th>TOTAL SHEETS</th> <th>SHEET NO.</th> </tr> <tr> <td>• (2X,3)RS-3 &amp; 2RS-4</td> <td>Champaign</td> <td>551</td> <td>119</td> <td></td> </tr> <tr> <td>• F.A.U. 7152 &amp; F.A.S. 1512</td> <td colspan="2">CONTRACT NO. 70663</td> <td colspan="2"></td> </tr> <tr> <td colspan="5">ILLINOIS FED. AID PROJECT</td> </tr> </table>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	• (2X,3)RS-3 & 2RS-4	Champaign	551	119		• F.A.U. 7152 & F.A.S. 1512	CONTRACT NO. 70663				ILLINOIS FED. AID PROJECT				
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS			SHEET NO.																			
• (2X,3)RS-3 & 2RS-4	Champaign	551	119																						
• F.A.U. 7152 & F.A.S. 1512	CONTRACT NO. 70663																								
ILLINOIS FED. AID PROJECT																									
c:\p\work\mtdat\yearlock\j\d8129316\0574563-sh1-plnpr-f.dgn	earlockjd	JMS	-																						
PLOT SCALE = 48.0000 "/> <td>CHECKED :</td> <td>REVISED :</td> <td>REVISED :</td>	CHECKED :	REVISED :	REVISED :																						
PLOT DATE = 10/10/2013	DATE 081610	REVISED :	REVISED :																						
SCALE: 1" = 20'		SHEET NO. 38 OF 54 SHEETS		STA. 318+00.00 TO STA. 324+00.00																					





SEC. 9, T. 19 N, R. 10 E.



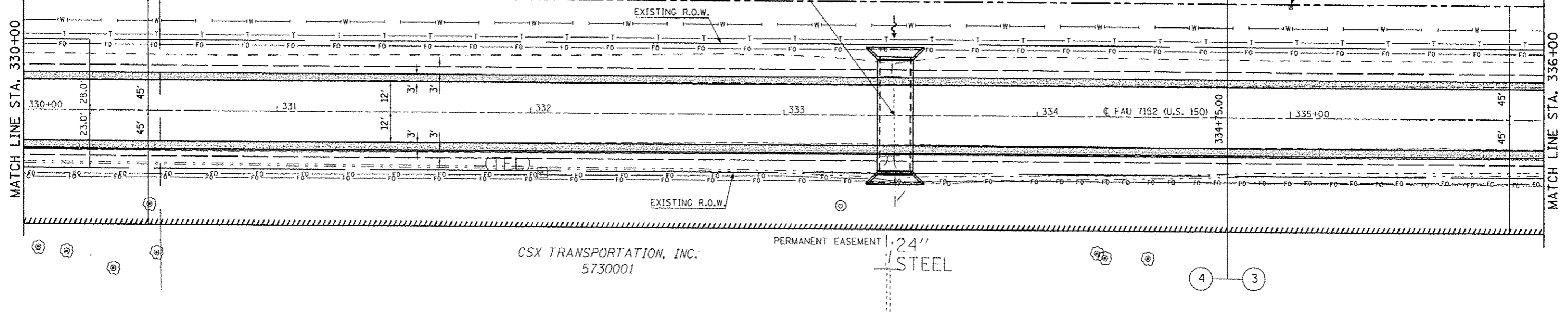
28-22-09-300-001  
SHEPARD, NANCY ANNE  
AS SUCCESSOR TRUSTEE  
5730019

333+44.00 PROPOSED S.N. 010-8164  
12' X 2' X 41' SEE CULVERT DETAILS

28-22-09-400-05  
BARCUSS, ROBERT CHARLES  
AS TRUSTEE  
5730020

PROPOSED R.O.W.

335+00.00  
45.00' LT

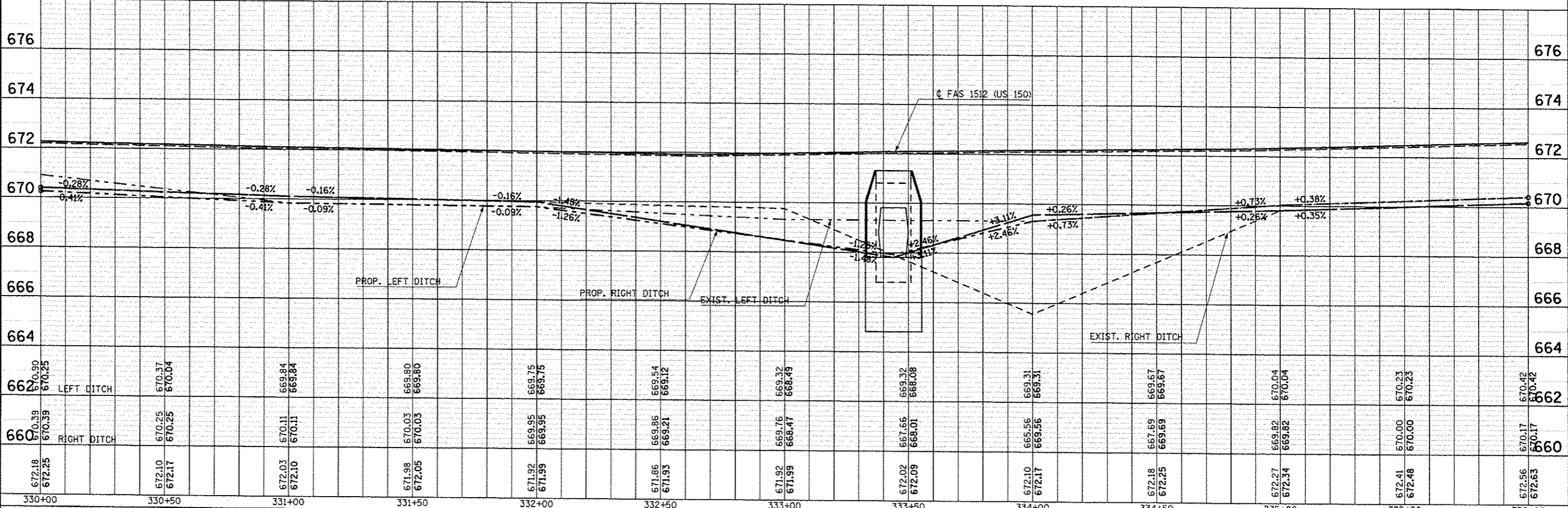


HMA SHOULDERS, 6"      AGG SHOULDERS-TYPE B, 6"

SEC. 16, T. 19 N, R. 10 E.

PLAN	DATE
REVISED	
PLOTTED	
NOTED	
NO.	

PROFILE	DATE
REVISED	
PLOTTED	
NOTED	
NO.	



FILE NAME =	USER NAME = ceer-lock_jd	DESIGNED JMS	REVISED -	<p align="center"><b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b></p> <p align="center"><b>US 150 MAINLINE</b> <b>PLAN AND PROFILE SHEET</b></p>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwwork\pwwork\ceer-lock_jd\08120316\057	663-shc-plnprf.dgn	DRAWN JMS	REVISED -		• (2X,3)RS-3 & 2RS-4	Champaign	551	121	
	PILOT SCALE = 40.0000' / 1"	CHECKED -	REVISED -		• F.A.U. 7152 & F.A.S. 1512			CONTRACT NO. 70663	
	PILOT DATE = 10/10/2013	DATE 081610	REVISED -		ILLINOIS FED. AID PROJECT				

SCALE: 1" = 20'      SHEET NO. 40 OF 54 SHEETS      STA. 330+00.00 TO STA. 336+00.00





SEC. 9, T. 19 N, R. 10 E.

SEC. 9, T. 19 N, R. 10 E.

28-22-09-400-05  
BARCUSS, ROBERT CHARLES  
AS TRUSTEE  
5730020

EXISTING R.O.W.

STATION 343+84.49 (US 150)  
STATION 600+00.00 (TR 2075E) NORTH

PIPE CULV. CLASS D, TYPE 1 ERS - 15" = 31.0'  
STA. 343+67.06, 30.30' LT, ELEV = 671.92  
STA. 344+01.39, 29.32' LT, ELEV = 671.92  
END SECTIONS ERS - 15" = 2EA.

343+46.87 30'R  
42.00' LT  
344+03.59 18.00' LT  
344+21.88 30'R  
42.00' LT  
344+08.51 15.00' LT

343+59.66 15.00' LT  
343+64.59 18.00' LT  
344+15.41 15.00' RT  
343+58.34 15.00' RT

343+63.49 18.00' RT  
343+45.49 30'R  
42.00' RT  
344+10.49 18.00' RT  
344+28.49 30'R  
42.00' RT

PIPE CULV. CLASS D, TYPE 1 ERS - 15" = 46.8'  
STA. 343+62.46, 26.65' RT, ELEV = 672.52  
STA. 344+12.46, 26.50' RT, ELEV = 672.25  
END SECTIONS ERS - 15" = 2 EA.

STATION 343+87.19 (US 150)  
STATION 600+00.00 (TR 2075E) SOUTH

CSX TRANSPORTATION, INC.  
5730001

P.C. STA. 345+65.02

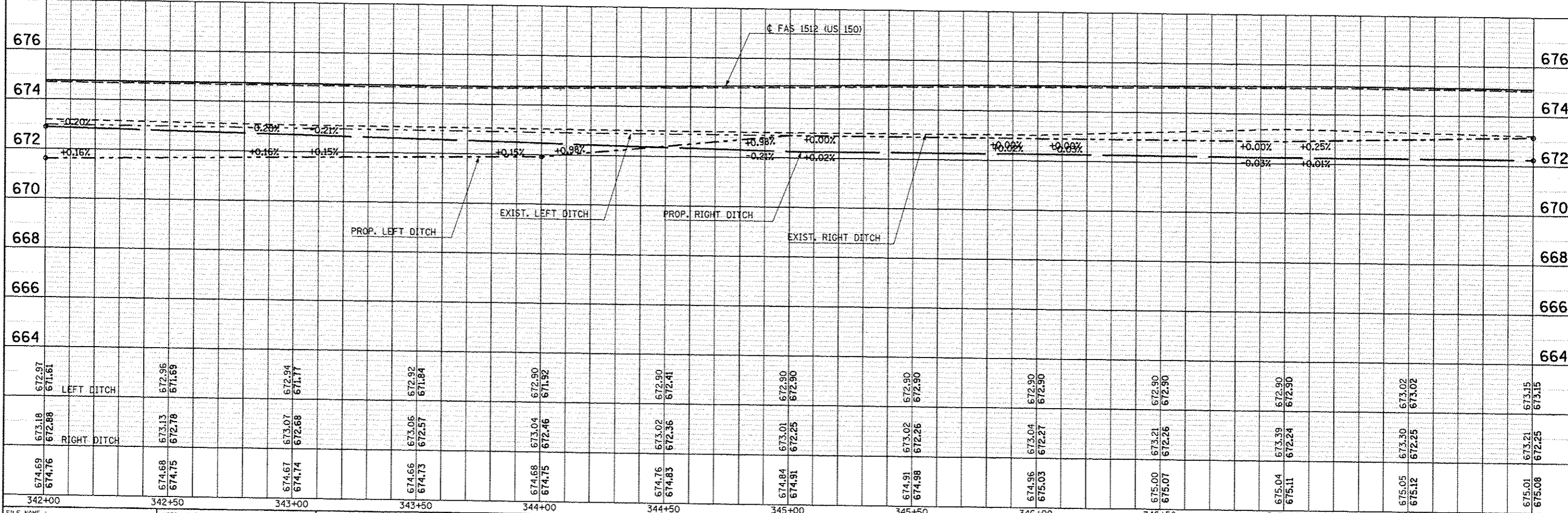
INCIDENTAL HMA SURFACING

SEC. 16, T. 19 N, R. 10 E.

SEC. 16, T. 19 N, R. 10 E.

PLAN	DATE
BY	
CHECKED	
NO. OF SHEETS	
NO. OF THIS SHEET	
DATE	

PROFILE	DATE
BY	
CHECKED	
NO. OF SHEETS	
NO. OF THIS SHEET	
DATE	

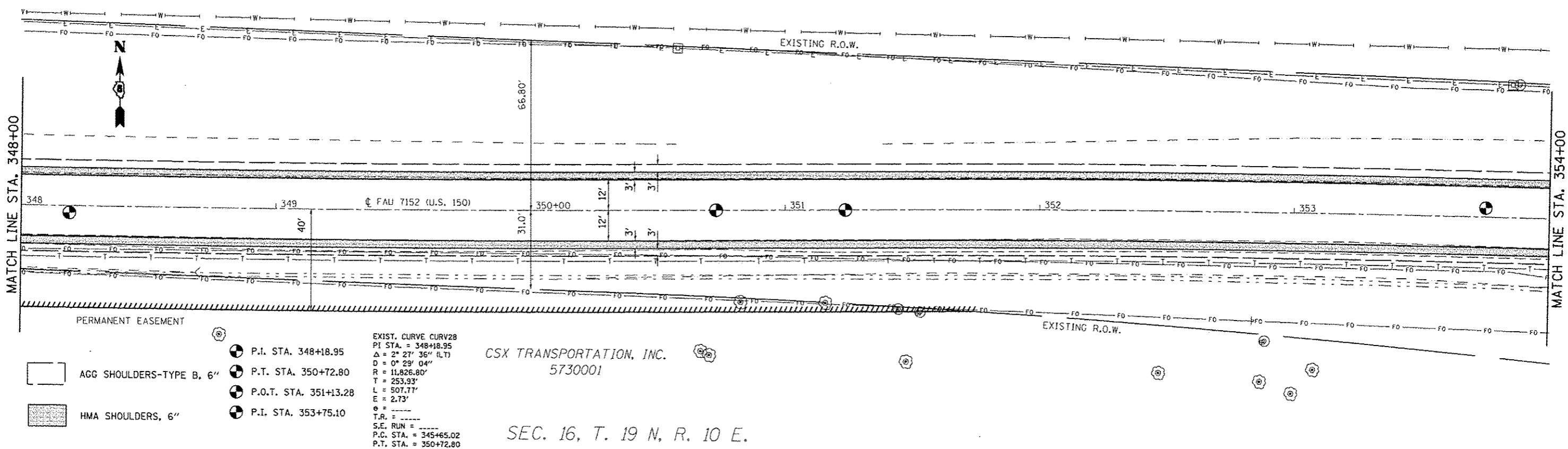


FILE NAME: c:\pwork\pwork\cearlock\20120316\5730020\663-sht-plnprf.dgn	USER NAME: cealock	DESIGNED: JMS	REVISIONS:	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 150 MAINLINE PLAN AND PROFILE SHEET	F.A.U. RTE.:	SECTION:	COUNTY:	TOTAL SHEETS:	SHEET NO.:
PLT SCALE: 48.0000' / 1"	CHECKED: -	DATE: 081610	REVISIONS:	SCALE: 1" = 20'	SHEET NO. 42 OF 54 SHEETS	• F.A.U. 1152 & F.A.S. 1512	(2X,3RS-3 & 2RS-4)	Champaign	551	123
PLT DATE: 10/18/2013	DATE: 081610				STA. 342+00.00 TO STA. 348+00.00					CONTRACT NO. 70663

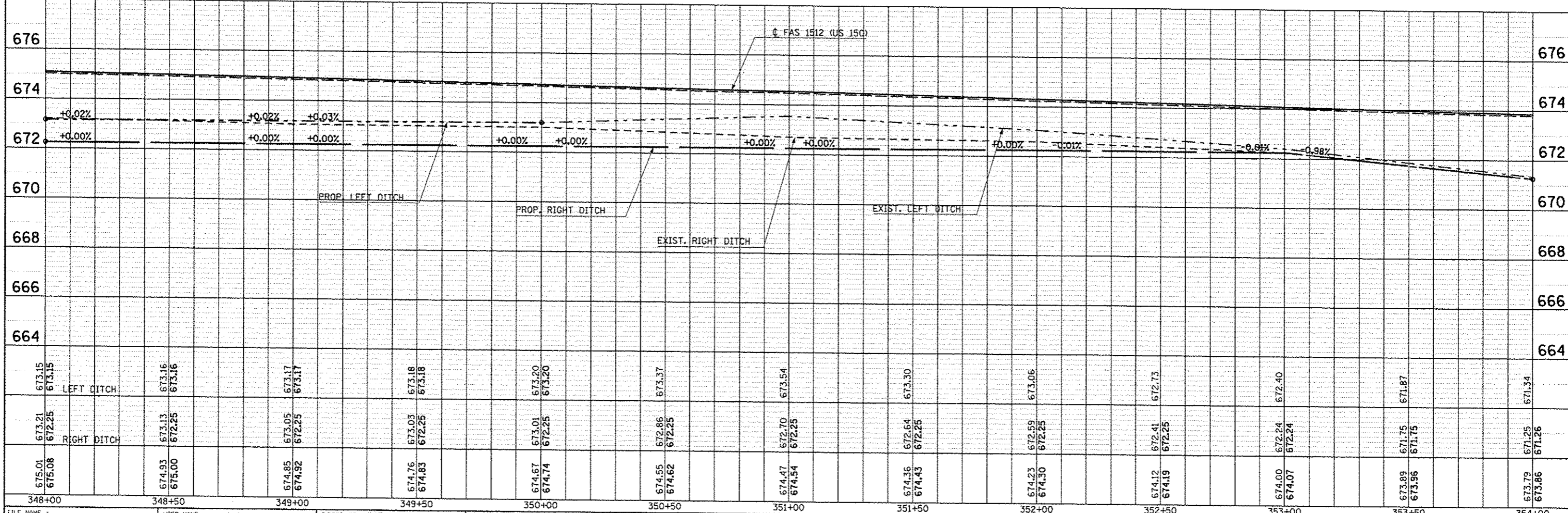
ILLINOIS FED. AID PROJECT

SEC. 9, T. 19 N, R. 10 E.

PLAN	DATE
BY	
CHECKED	
NO. OF SHEETS	
NO. OF SHEETS CHECKED	
NO. OF SHEETS NOT CHECKED	
NO. OF SHEETS NOT CHECKED	



PROFILE	DATE
BY	
CHECKED	
NO. OF SHEETS	
NO. OF SHEETS CHECKED	
NO. OF SHEETS NOT CHECKED	



FILE NAME =	USER NAME = cearlock.jd	DESIGNED JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 150 MAINLINE PLAN AND PROFILE SHEET	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DRAWN JMS	REVISOR -	SCALE = 40.0000' / 1" =	CHECKED -			REVISOR -	2X,31R5-3 & 2RS-4	Champaign	551	124
DATE 081610	REVISOR -	DATE 10/18/2013	DATE 081610			REVISOR -	F.A.U. 7152 & F.A.S. 1512	CONTRACT NO. 70663	ILLINOIS' FEO. AID PROJECT	
							SCALE: 1" = 20'	SHEET NO. 43 OF 54 SHEETS	STA. 348+00.00 TO STA. 354+00.00	

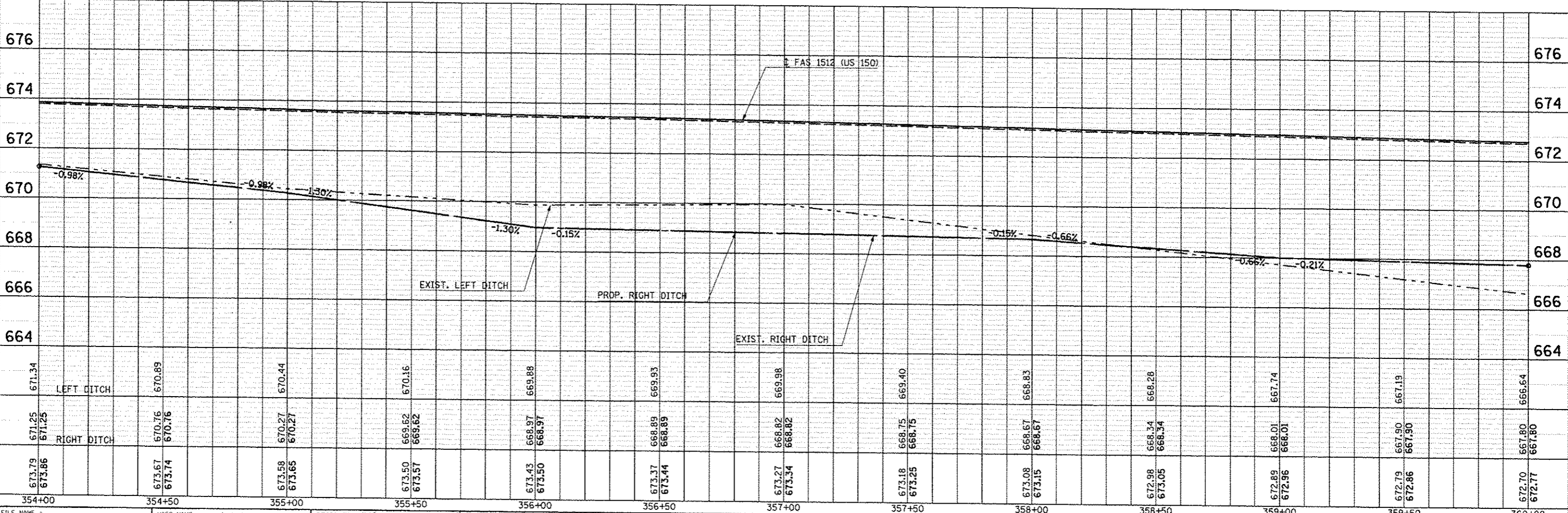
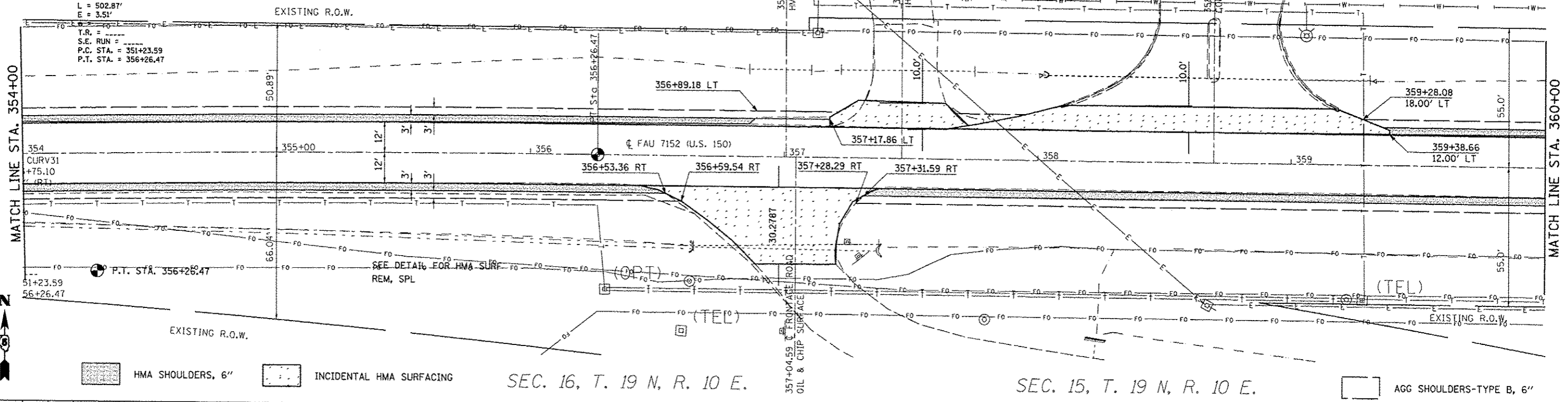
SEC. 9, T. 19 N, R. 10 E.

SEC. 10, T. 19 N, R. 10 E.

SEC. 16, T. 19 N, R. 10 E.

SEC. 15, T. 19 N, R. 10 E.

EXIST. CURVE CURV31  
 PI STA. = 353+75.10  
 $\Delta = 3^\circ 12' 05''$  (RT)  
 $D = 0^\circ 38' 12''$   
 $R = 9,000.09'$   
 $T = 251.50'$   
 $L = 502.87'$   
 $E = 3.51'$   
 T.R. =  
 S.E. RUN =  
 P.C. STA. = 351+23.59  
 P.T. STA. = 356+26.47



PLAN	DATE
BY	
NO.	
NO.	
NO.	
NO.	

PROFILE	DATE
BY	
NO.	
NO.	
NO.	
NO.	

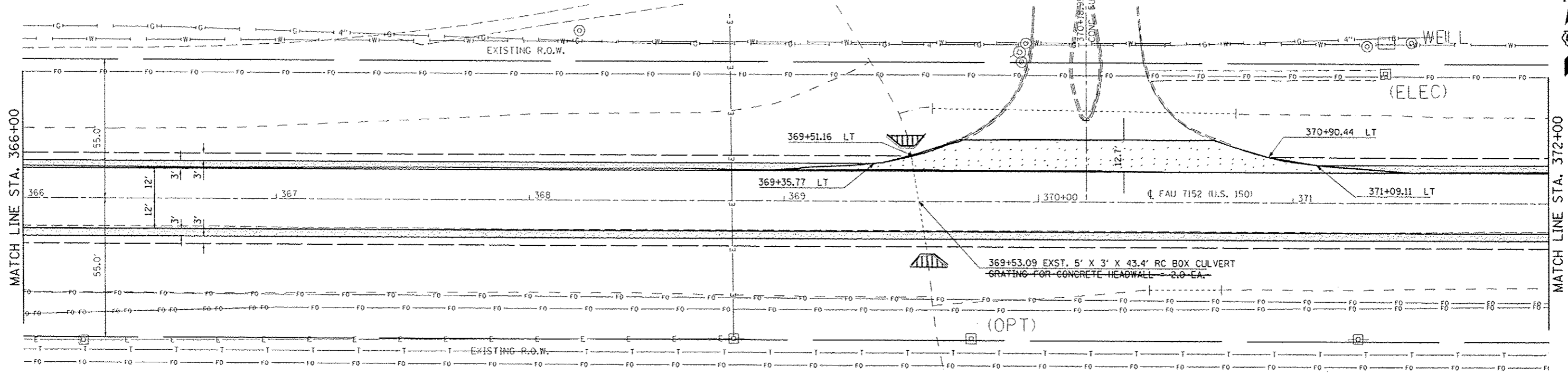
FILE NAME =	USER NAME = cearlockjd	DESIGNED JMS	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 150 MAINLINE PLAN AND PROFILE SHEET	SCALE: 1" = 20' SHEET NO. 44 OF 54 SHEETS STA. 354+00.00 TO STA. 360+00.00	F.A.U. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO. (2X,3)RS-3 & 2RS-4 Champagn 551 125 F.A.U. 7152 & F.A.S. 1512 CONTRACT NO. 70663 ILLINOIS FED. AID PROJECT
ce:\pwwork\pwwork\cearlockjd\01202016\0578603-sht-plnpr.f.dgn	603-sht-plnpr.f.dgn	DRAWN JMS	REVISD -				
PLOT SCALE = 48.0000 / in.		CHECKED -	REVISD -				
PLOT DATE = 10/18/2013		DATE 081610	REVISD -				





SEC. 10, T. 19 N, R. 10 E.

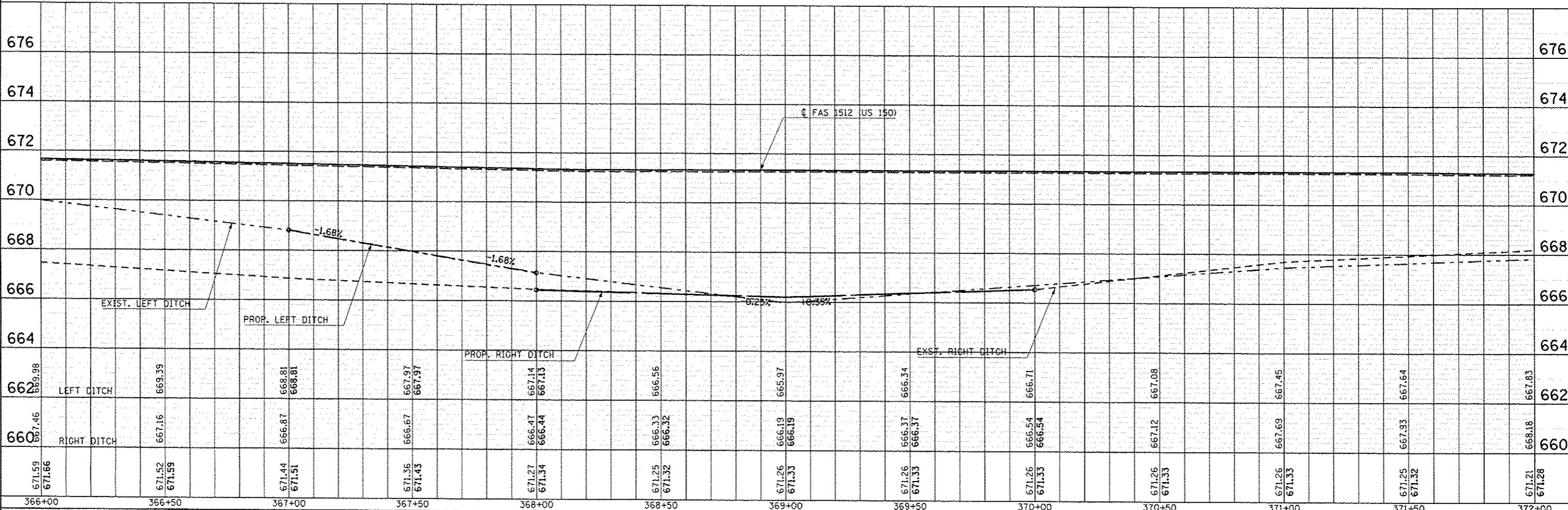
PLAN	DATE
SCHEMATIC	
NOTES	
NO.	



HMA SHOULDERS, 6"  
 INCIDENTAL HMA SURFACING  
 AGG SHOULDERS-TYPE B, 6"  
 SEE DETAIL FOR HMA SURF REM, SPL  
 SEE DETAIL FOR GRATING FOR CONCRETE HEADWALL

SEC. 15, T. 19 N, R. 10 E.

PROFILE	DATE
SCHEMATIC	
NOTES	
NO.	

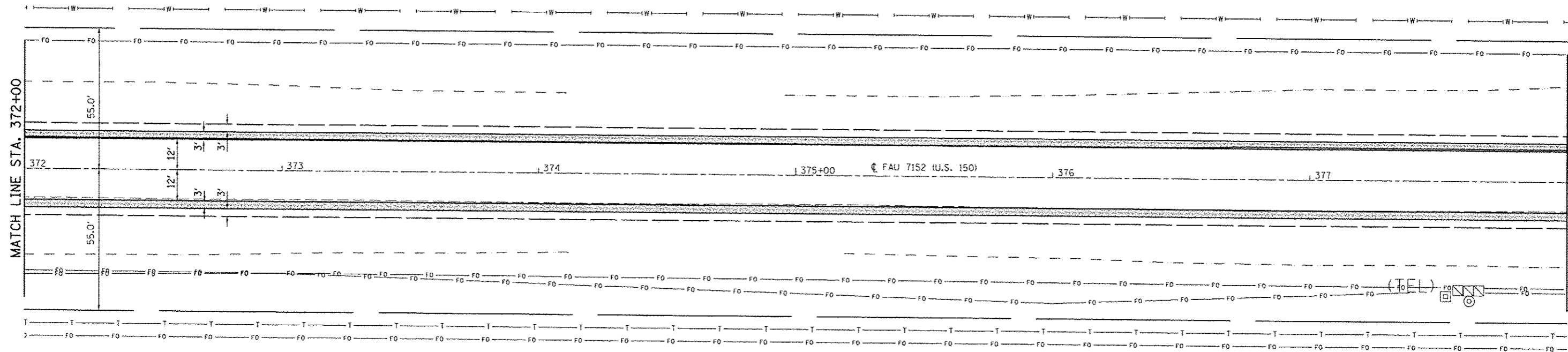


FILE NAME: c:\pr\work\p\dat\ceer-lock\jd\201316-05	USER NAME: ceer-lock\jd	DESIGNED: JMS	REVISIONS:	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>US 150 MAINLINE</b> <b>PLAN AND PROFILE SHEET</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN: JMS	REVISIONS:			• 12X,31RS-3 & 2RS-4	Champaign	551	127	
		CHECKED:	REVISIONS:			• F.A.U. 7152 & F.A.S. 1512			CONTRACT NO. T0663	
		DATE: 081610	REVISIONS:			ILLINOIS FED. AID PROJECT				

SEC. 10, T. 19 N, R. 10 E.



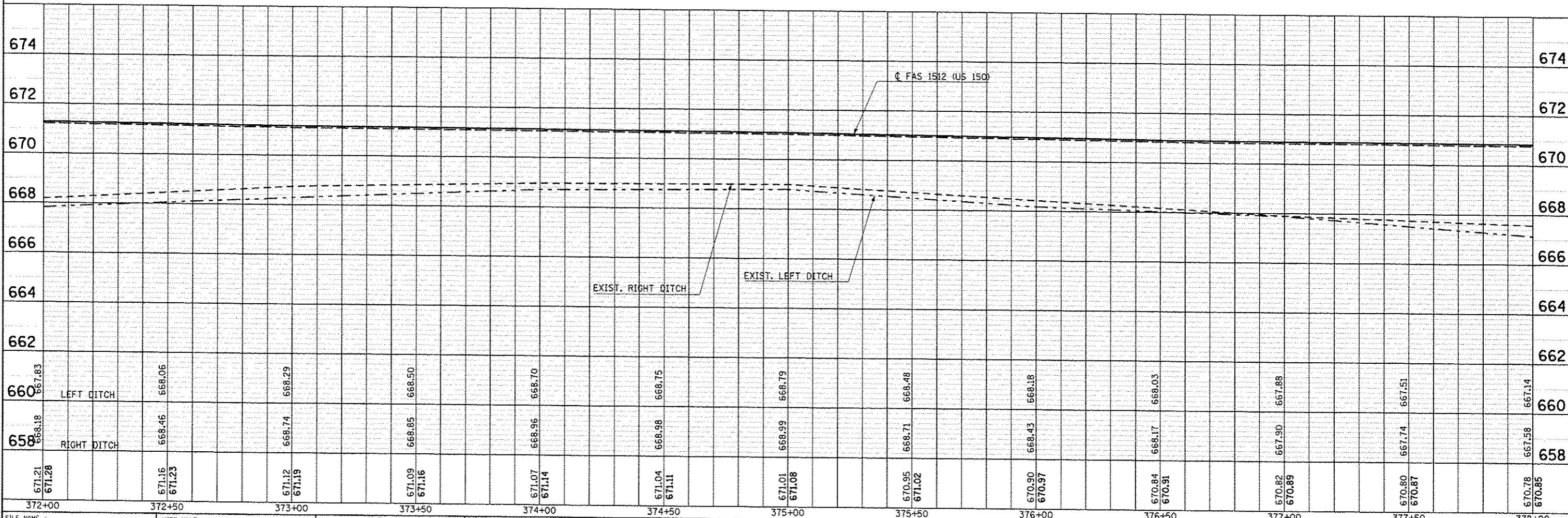
PLAN	DESIGNED	DATE
NOTE BOOK	PLOTTED	
NO.	ALIGNED	
	CHECKED	
	DATE	
	FILE NAME	



HMA SHOULDERS, 6"
  AGG SHOULDERS-TYPE B, 6"

SEC. 15, T. 19 N, R. 10 E.

PROFILE	DESIGNED	DATE
NOTE BOOK	PLOTTED	
NO.	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	



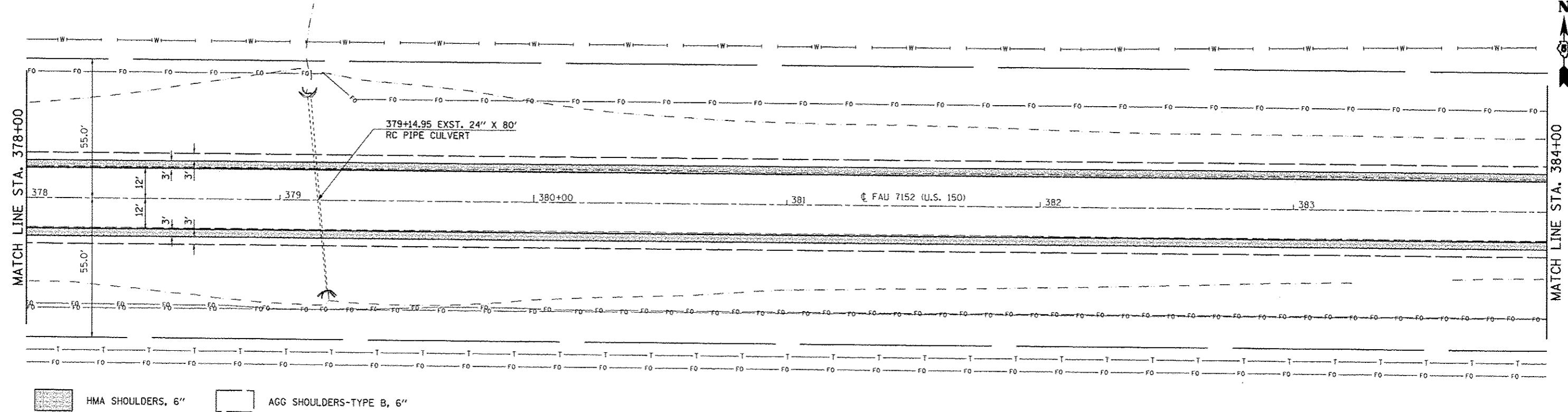
FILE NAME :	USER NAME :	DESIGNED :	REVISED :	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>US 150 MAINLINE</b> <b>PLAN AND PROFILE SHEET</b>	F.A.U. RTE. : SECTION : COUNTY : TOTAL SHEETS : SHEET NO. :
c:\pwwork\pwwork\c:\pwwork\jms\2012\10\20121027\663-shr-plnpr.f.dgn	caer-loak.jd	DRAWN : JMS	REVISED :			
PLOT SCALE = 48.0000' / 1"		CHECKED :	REVISED :			
PLOT DATE = 10/18/2013		DATE : 081610	REVISED :			
SCALE: 1" = 20'		SHEET NO. 47 OF 54 SHEETS		STA. 372+00.00 TO STA. 378+00.00		F.A.U. : 7152 & F.A.S. 1512 CONTRACT NO. 70663 ILLINOIS FED. AID PROJECT



SEC. 10, T. 19 N, R. 10 E.



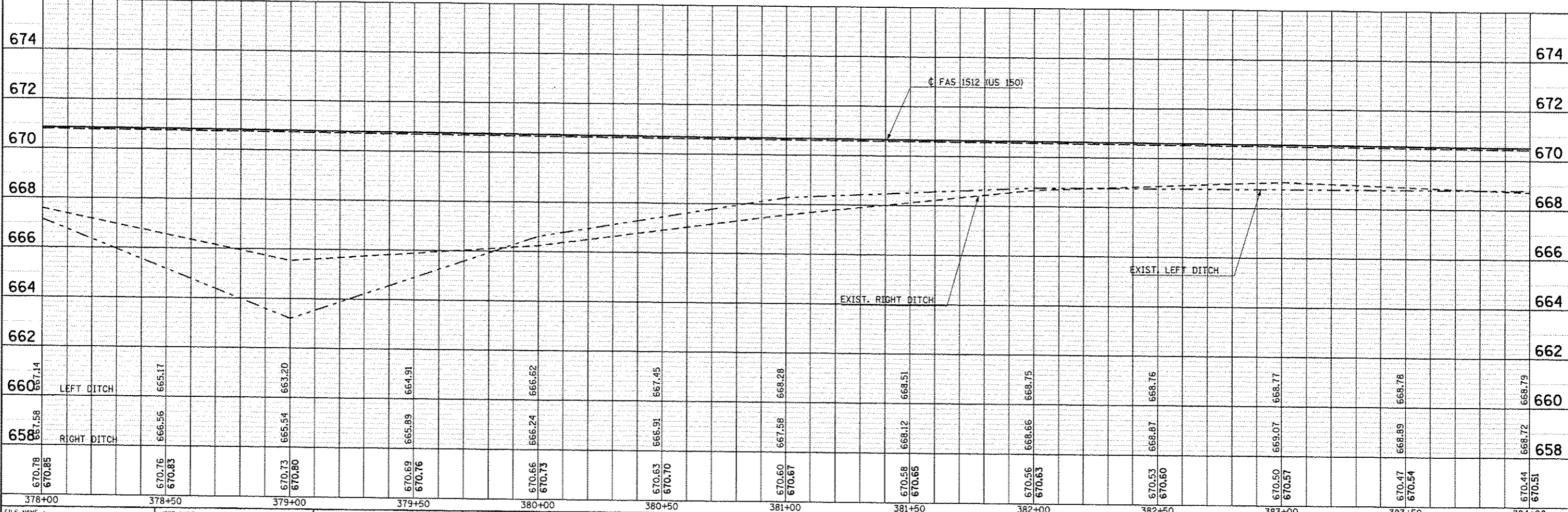
PLAN	DATE
DESIGNED	
DRAWN	
CHECKED	
DATE	



HMA SHOULDERS, 6"      AGG SHOULDERS-TYPE B, 6"

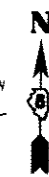
SEC. 15, T. 19 N, R. 10 E.

PROFILE	DATE
DESIGNED	
DRAWN	
CHECKED	
DATE	

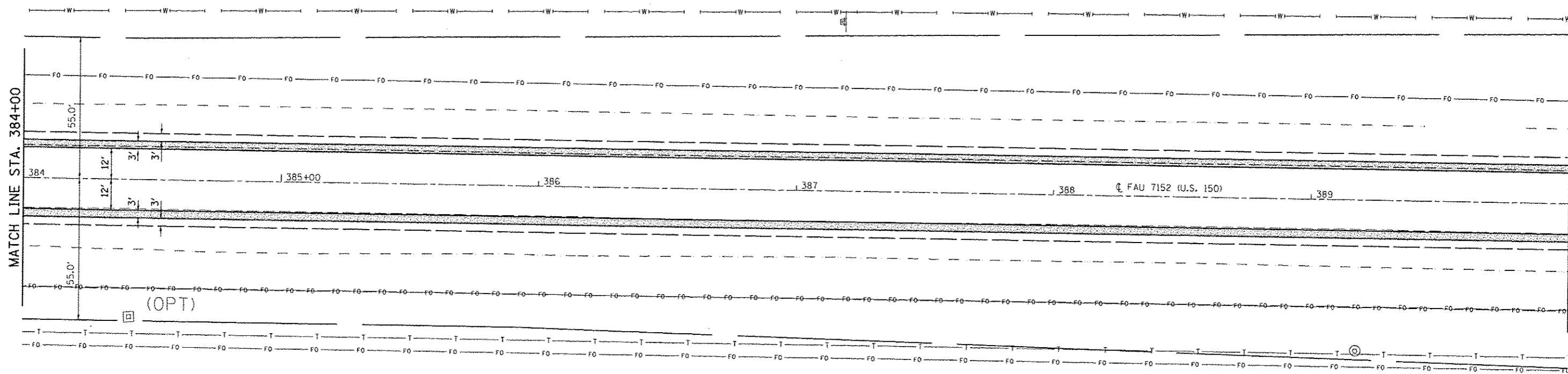


FILE NAME: c:\pwwork\pjd\cncr\lock_jd\20120316\057663-shv.plnprf.dgn	USER NAME: cncr\lock_jd	DESIGNED: JMS	REVISED: -	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>US 150 MAINLINE</b> <b>PLAN AND PROFILE SHEET</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE: 48,00000 / in.	CHECKED: -	REVISED: -	REVISED: -			2X,3RS-3 & 2RS-4	Champaign	551	129	
PLOT DATE: 10/16/2013	DATE: 081610	REVISED: -	REVISED: -			F.A.U. 7152 & F.A.S. 1512			CONTRACT NO. 70663	
						ILLINOIS FED. AID PROJECT				

SEC. 10, T. 19 N, R. 10 E.



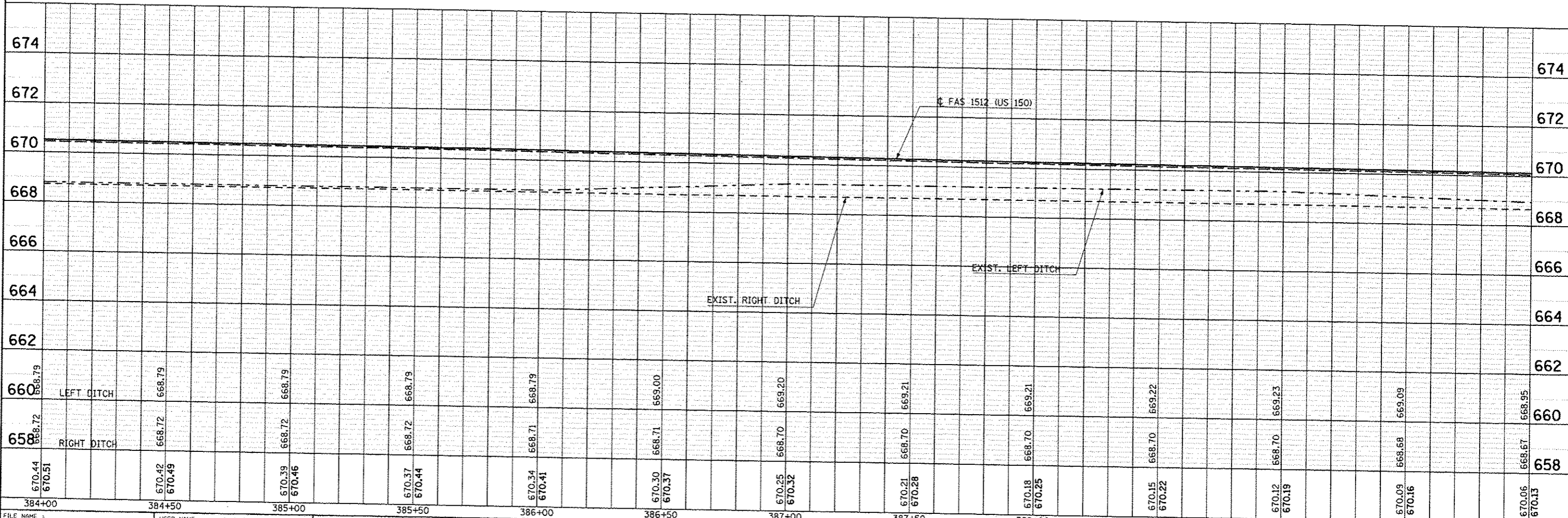
PLAN	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	BY		
	NO. OF WAYS CHECKED		
	NO.		
	CADD FILE NAME		



HMA SHOULDERS, 6"  
 AGG SHOULDERS-TYPE B, 6"

SEC. 15, T. 19 N, R. 10 E.

PROFILE	DESIGNED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	BY		
	NO. OF WAYS CHECKED		
	NO.		
	CADD FILE NAME		



FILE NAME: c:\pwork\pndot\conlockj\d08128316\057	USER NAME: conlockj	DESIGNED: JMS	REVISIONS:	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	US 150 MAINLINE PLAN AND PROFILE SHEET	F.A.U. RTE. SECTION: (2X)JRS-3 & 2RS-4	COUNTY: Champaign	TOTAL SHEETS: 551	SHEET NO.: 130
PLOT SCALE: 40,0000 / 1	PLOT DATE: 10/18/2013	DRAWN: JMS	CHECKED: -	DATE: 081610	SCALE: 1" = 20'	CONTRACT NO. 70663	ILLINOIS FED. AID PROJECT		







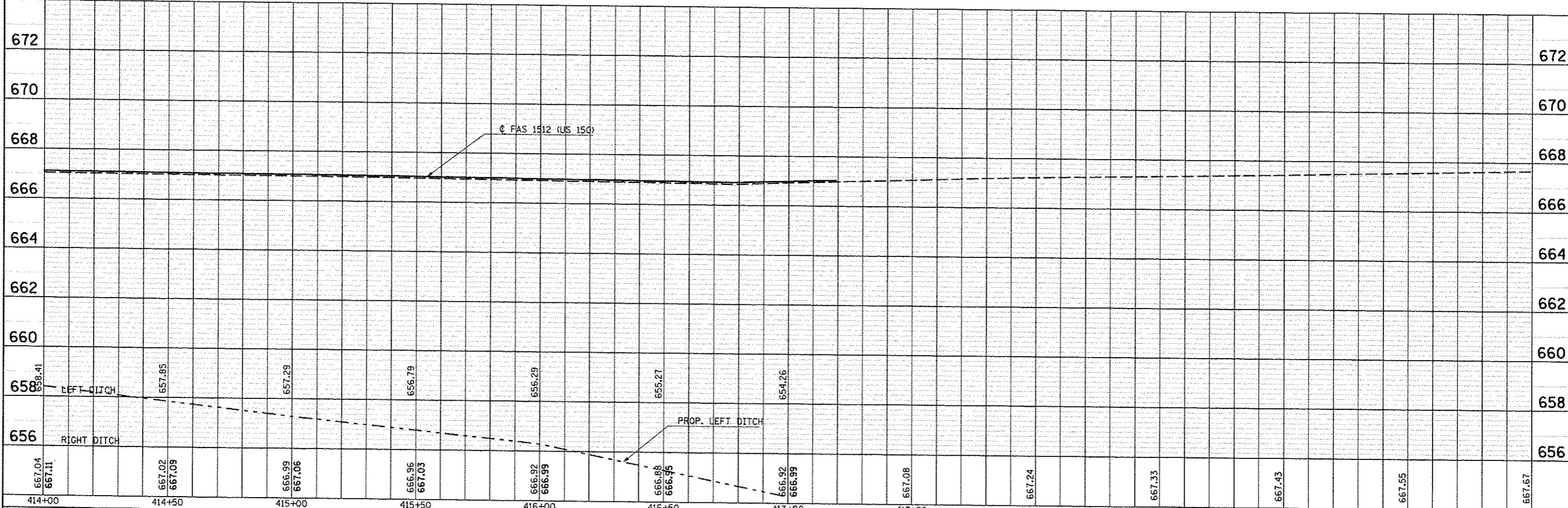
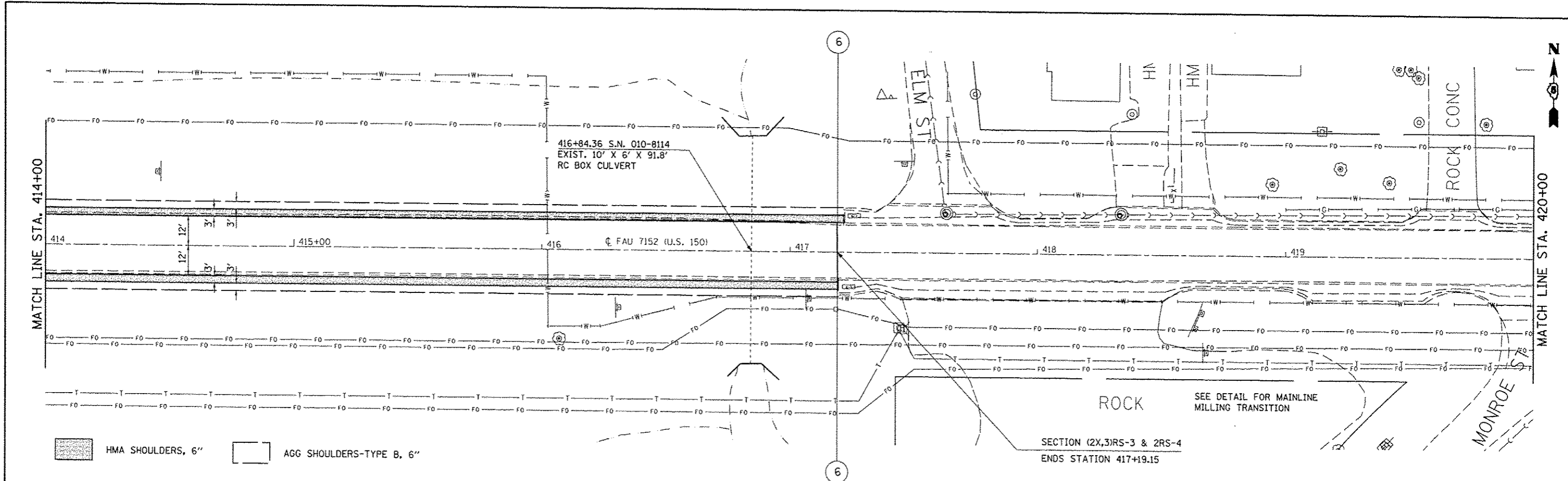






PLAN	DATE
NO. 1	
BY	
DATE	
NO.	
BY	
DATE	
NO.	
BY	
DATE	
NO.	

PROFILE	DATE
NO. 1	
BY	
DATE	
NO.	
BY	
DATE	
NO.	
BY	
DATE	
NO.	



414+00	414+50	415+00	415+50	416+00	416+50	417+00	417+50	418+00	418+50	419+00	419+50	420+00
667.04 667.11	667.02 667.09	666.99 667.06	666.96 667.03	666.92 666.99	666.88 666.95	666.92 666.99	667.08	667.24	667.33	667.43	667.55	667.67

FILE NAME =	USER NAME =
...	...
PLOT SCALE = 48.0000 / 1 in.	CHECKED =
PLOT DATE = 10/18/2013	DATE 081610

DESIGNED JMS	REVISED -
DRAWN JMS	REVISED -
CHECKED -	REVISED -
DATE 081610	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**US 150 MAINLINE**  
**PLAN AND PROFILE SHEET**

SCALE: 1" = 20'    SHEET NO. 54 OF 54 SHEETS    STA. 414+00.00 TO STA. 420+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(2X,3)RS-3 & 2RS-4	Champaign	551	135
•	F.A.U. 7152 & F.A.S. 1512			
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70663	







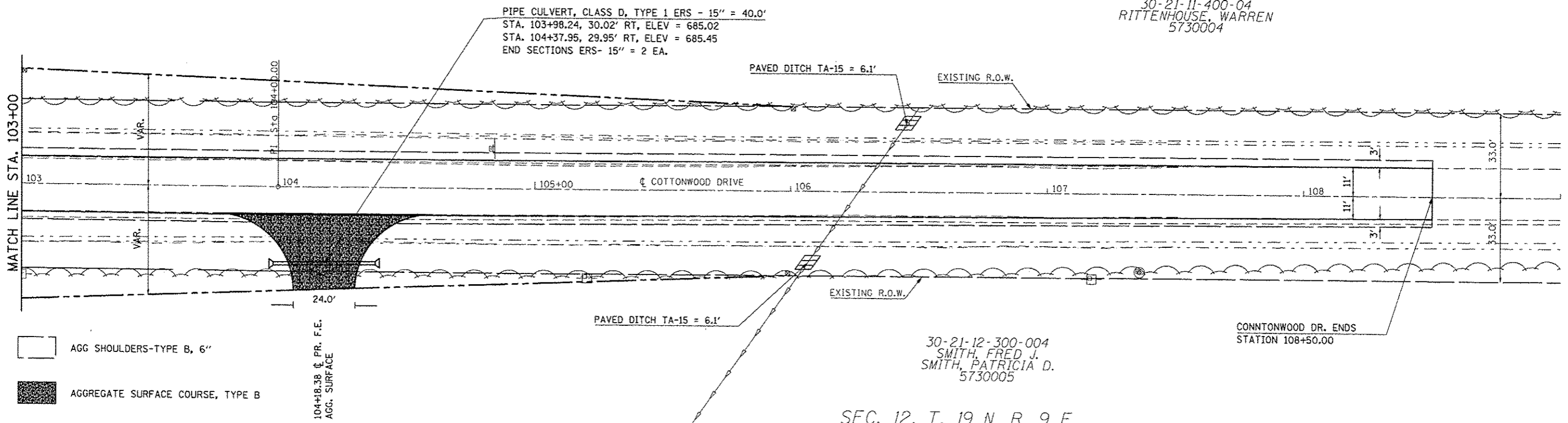


SEC. 11, T. 19 N, R. 9 E.

30-21-11-400-04  
RITTENHOUSE, WARREN  
5730004



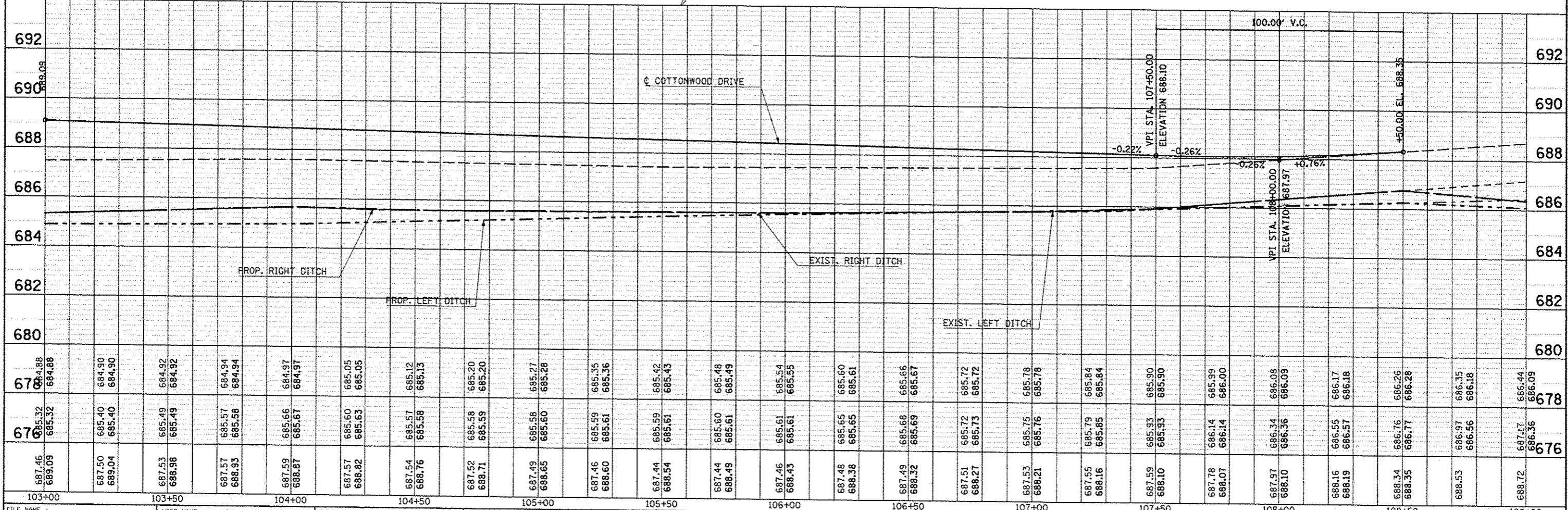
PLAN	DATE
SORTED	
ALIGNED	
CHECKED	
ST. OF WAY	
NO.	
ADD FILE NAME	



30-21-12-300-004  
SMITH, FRED J.  
SMITH, PATRICIA D.  
5730005

SEC. 12, T. 19 N, R. 9 E.

PROFILE	DATE
SORTED	
PACKS CHECKED	
NO. NOTED	
PRODUCE	
ADJUSTING	
CHKD	
NO.	



FILE NAME =	USER NAME = ceer-lack.jd	DESIGNED -	REVISED -	<p align="center"><b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b></p>	<p align="center"><b>COTTONWOOD ROAD</b> <b>PLAN &amp; PROFILE SHEET</b></p>	F.A. #	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cr:\pwork\pwork\ceer-lack.jd\0120316\0574663-sht-plnpr-f_Cottonwood.dgn	PLT SCALE = 48.0000 / 1	DRAWN -	REVISED -			•	(2X,3)RS-3 & 2RS-4	Champaign	551	139
*MODELNAME*	PLT DATE = 10/18/2013	CHECKED -	REVISED -			•	F.A.U. 7152 & F.A.S. 1512	CONTRACT NO. 70663		
		DATE -	REVISED -					ILLINOIS FED. AID PROJECT		

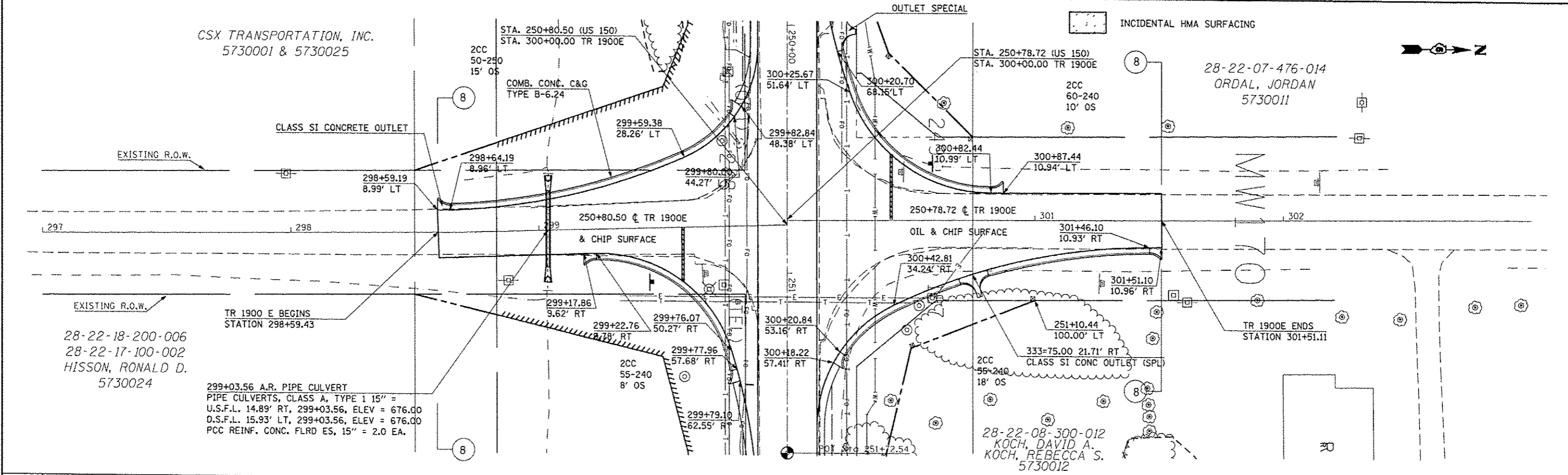
CSX TRANSPORTATION, INC.  
5730001 & 5730025

28-22-07-476-014  
ORDAL, JORDAN  
5730011



DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
NO.	
DESCRIPTION	
DATE	
BY	
NO.	
DESCRIPTION	

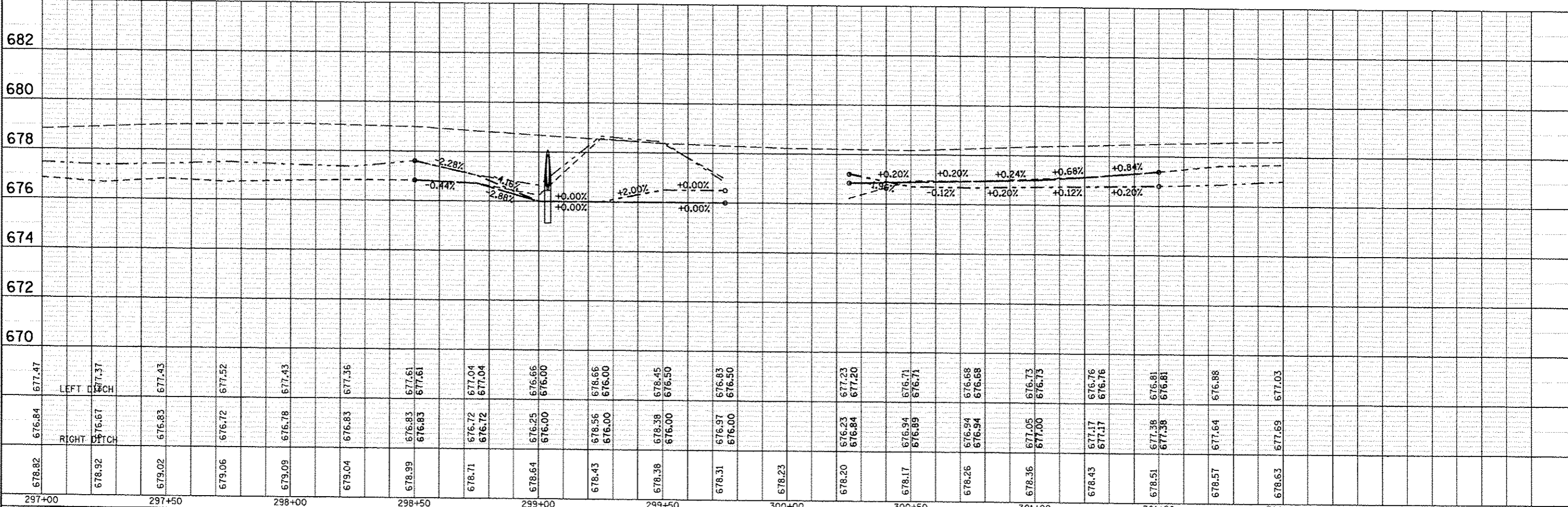
DATE	
BY	
REVISIONS	
NO.	
DESCRIPTION	
DATE	
BY	
NO.	
DESCRIPTION	
DATE	
BY	
NO.	
DESCRIPTION	



28-22-18-200-006  
28-22-17-100-002  
HISSON, RONALD D.  
5730024

299+03.56 A.R. PIPE CULVERT  
PIPE CULVERTS, CLASS A, TYPE 1 15" =  
U.S.F.L. 14.89' RT, 299+03.56, ELEV = 676.00  
D.S.F.L. 15.93' LT, 299+03.56, ELEV = 676.00  
PCC REINF. CONC. FLRD ES, 15" = 2.0 EA.

28-22-08-300-012  
KOCH, DAVID A.  
KOCH, REBECCA S.  
5730012



FILE NAME =	USER NAME = cbarlock_jd	DESIGNED JMS	REVISED -	<p align="center"><b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b></p> <p align="center"><b>T.R. 1900E</b> <b>PLAN &amp; PROFILE</b></p> <p>SCALE: 1" = 20'    SHEET NO. 1 OF 1 SHEETS    STA. 297+00.00 TO STA. 303+00.00</p>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwworkspace\pwworkspace\cbarlock_jd\201310\0572063-shs-plnpr1.dgn	DRAWN JMS	REVISED -	• (2X,3RS-3 & 2RS-4		Champaign	551	140		
PLOT SCALE = 48.00000 / in.	CHECKED -	REVISED -	• F.A.U. 7152 & F.A.S. 1512						
PLOT DATE = 10/18/2013	DATE 081610	REVISED -	CONTRACT NO. 70663						



LANDSCAPING SCHEDULE

	STATION	TO	STATION	AREA (ACRE)	BOTANICAL SITE 1&2 ACRE	28000250 TEMPORARY EROSION SEEDING (POUND)	25000200 SEEDING CLASS 2 (ACRE)	25000310 SEEDING CLASS 4 (ACRE)	25000322 SEEDING CLASS 5A (ACRE)	25000350 SEEDING CLASS 7 (ACRE)	25000400 NITROGEN FERT. (POUNDS)	25000500 PHOS FERT. (POUNDS)	25000600 POTAS. FERT. (POUNDS)	25100115 MULCH METHOD 2 (ACRE)	
URBAN															
	LT	114+37.00	LT	142+00.00	3.2	320.0	3.2	0.0	0.0	3.2	288.0	288.0	288.0	3.2	
	RT	97+55.22	RT	142+00.00	3.8	380.0	3.8	0.0	0.0	3.8	342.0	342.0	342.0	3.8	
COTTONWOOD DR	LT	86+00.00	LT	99+88.00	0.6	63.0	0.6	0.0	0.0	0.6	56.7	56.7	56.7	0.6	
COTTONWOOD DR.	RT	86+00.00	RT	99+88.00	0.9	86.0	0.9	0.0	0.0	0.9	77.4	77.4	77.4	0.9	
COTTONWOOD DR	LT	100+12.00	LT	108+50.00	0.6	58.0	0.6	0.0	0.0	0.6	52.2	52.2	52.2	0.6	
COTTONWOOD DR.	RT	100+12.00	RT	108+50.00	0.6	57.0	0.6	0.0	0.0	0.6	51.3	51.3	51.3	0.6	
RURAL															
	LT	143+00.00	LT	195+00.00	4.2	541.0	4.2	1.2	1.2	4.2	486.9	486.9	486.9	5.4	
	RT	143+00.00	RT	195+00.00	2.9	290.0	2.9	0.0	0.0	2.9	261.0	261.0	261.0	2.9	
	LT	195+40.00	LT	224+00.00	1.6	390.0	1.6	2.3	2.3	1.6	351.0	351.0	351.0	3.9	
	RT	195+30.00	RT	250+80.00	1.8	180.0	1.8	0.0	0.0	1.8	162.0	162.0	162.0	1.8	
	LT	249+70.00	LT	250+50.00	0.1	174.0	0.1	1.6	1.6	0.1	156.6	156.6	156.6	1.7	
	RT	251+00.00	RT	290+80.00	1.4	140.0	1.4	0.0	0.0	1.4	126.0	126.0	126.0	1.4	
	LT	251+00.00	LT	303+90.00	4.1	670.0	4.1	2.6	2.6	4.1	603.0	603.0	603.0	6.7	
	RT	291+10.00	RT	343+90.00	1.6	160.0	1.6	0.0	0.0	1.6	144.0	144.0	144.0	1.6	
	LT	304+25.00	LT	417+19.15	3.2	350.0	3.2	0.3	0.3	3.2	315.0	315.0	315.0	3.5	
	RT	344+00.00	RT	417+19.15	0.3	30.0	0.3	0.0	0.0	0.3	27.0	27.0	27.0	0.3	
TR 1900 E	LT	298+59.43	LT	299+88.00	0.1	19.0	0.0	0.1	0.1	0.0	17.1	17.1	17.1	0.2	
TR 1900 E	RT	298+59.43	RT	299+88.00	0.1	20.0	0.0	0.1	0.1	0.0	18.0	18.0	18.0	0.2	
TR 1900 E	LT	300+12.00	LT	301+51.00	0.1	8.0	0.1	0.0	0.0	0.1	7.2	7.2	7.2	0.1	
TR 1900 E	RT	300+12.00	RT	301+51.00	0.1	7.0	0.1	0.0	0.0	0.1	6.3	6.3	6.3	0.1	
				TOTAL =	31.2	8.2	3,943.0	31.0	8.2	8.2	31.0	3,548.7	3,548.7	3,548.7	39.4
				USE =	31.0	8.0	3,943.0	31.0	8.0	8.0	31.0	3,549.0	3,549.0	3,549.0	40.0

SCHEDULE NOTE: IT IS THE INTENT THAT CLASS 7 SEEDING BE PLACED ALONG WITH THE CLASS 2 SEEDING AS A SUPPLEMENTAL SEEDING TO PROMOTE ACCELERATED VEGETATION GROWTH.

FILE NAME =	USER NAME = sherarjm	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EROSION CONTROL/LANDSCAPING SCHEDULES</b>				F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cr:\pwwork\pwwork\sherarjm\08120316\0570663-sht-erosioncontrol.dgn	DRAWN -	REVISED -	*						(2X,3RS-3 & 2RS-4	Champaign	551	141	
PLOT SCALE = 48,0000' / in.	CHECKED -	REVISED -	* F.A.U. 7152 & F.A.S. 1512				CONTRACT NO. 70663						
PLOT DATE = 10/10/2013	DATE -	REVISED -	SCALE: 1:20		SHEET 1	OF 3 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				



28000500 INLET & PIPE PROTECTION

		STATION	EACH
	URBAN		
	RT	126+00.08	1.0
	LT	141+40.08	1.0
	RT	141+50.13	1.0
COTTONWOOD DR.	LT	92+50.24	1.0
COTTONWOOD DR.	RT	103+92.71	1.0
	RURAL		
	LT	146+95.43	1.0
	LT	164+12.15	1.0
	RT	195+46.41	1.0
	LT	196+00.03	1.0
	LT	204+00.05	1.0
	LT	204+66.93	1.0
	RT	209+94.00	1.0
	LT	251+87.99	1.0
	LT	264+64.05	1.0
	LT	266+02.09	1.0
	LT	266+61.45	1.0
	LT	268+23.08	1.0
	LT	276+81.43	1.0
	LT	277+60.74	1.0
	RT	290+57.56	1.0
	LT	291+24.90	1.0
	LT	303+89.15	1.0
	LT	317+56.58	1.0
	LT	343+62.98	1.0
	LT	344+17.87	1.0
T. R. 1900 E.	LT	299+04.39	1.0

TOTAL = 26.0

28000400 PERIMETER EROSION BARRIER

	STATION	IQ	STATION	FOOT
	URBAN			
	RT	125+22.00	RT 126+22.00	100.0
	LT	125+22.00	LT 126+22.00	100.0
	RT	139+50.09	RT 140+50.09	100.0
	LT	139+50.09	LT 140+50.09	100.0
	RURAL			
	RT	143+50.00	RT 144+50.00	100.0
	LT	143+50.00	LT 144+50.00	100.0
	RT	157+50.00	RT 158+50.00	100.0
	LT	157+50.00	LT 158+50.00	100.0
	RT	164+50.00	RT 195+00.00	3,050.0
	LT	184+39.41	LT 185+39.41	100.0
	LT	219+46.64	LT 220+46.64	100.0
	RT	195+45.00	RT 250+50.00	5,505.0
	LT	285+80.00	LT 286+80.00	100.0
	LT	288+50.00	LT 289+50.00	100.0
	RT	251+30.00	RT 290+60.00	3,930.0
	LT	321+55.00	LT 322+55.00	100.0
	LT	332+94.00	LT 333+94.00	100.0
	RT	291+10.00	RT 343+75.00	5,265.0
	RT	344+05.00	RT 351+74.22	769.2

TOTAL = 19,919.2

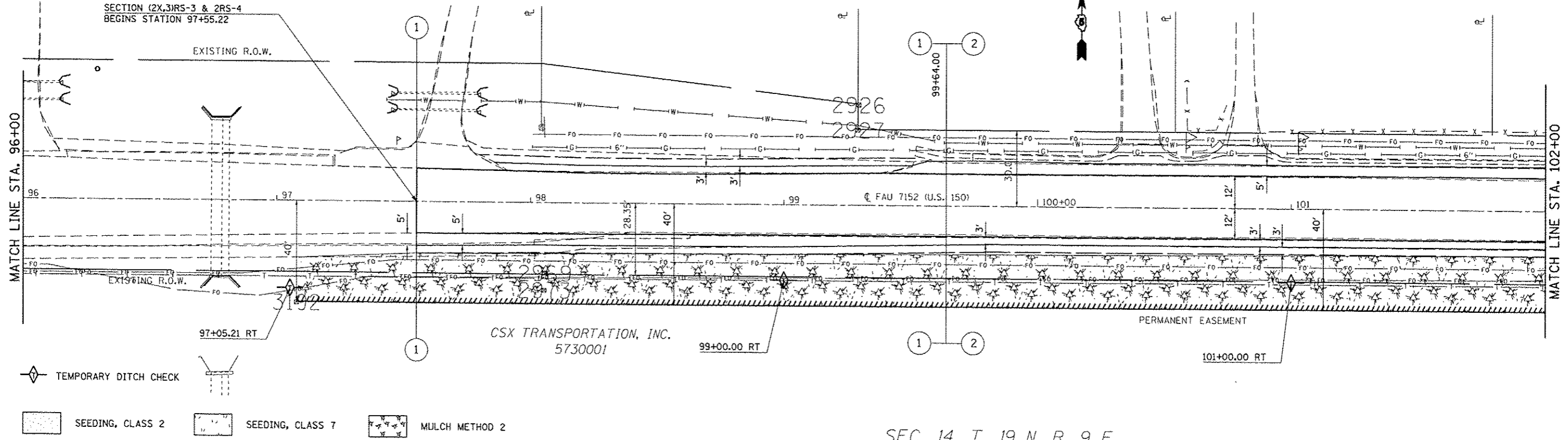
USE = 19,919.0



SEC. 11, T. 19 N, R. 9 E.

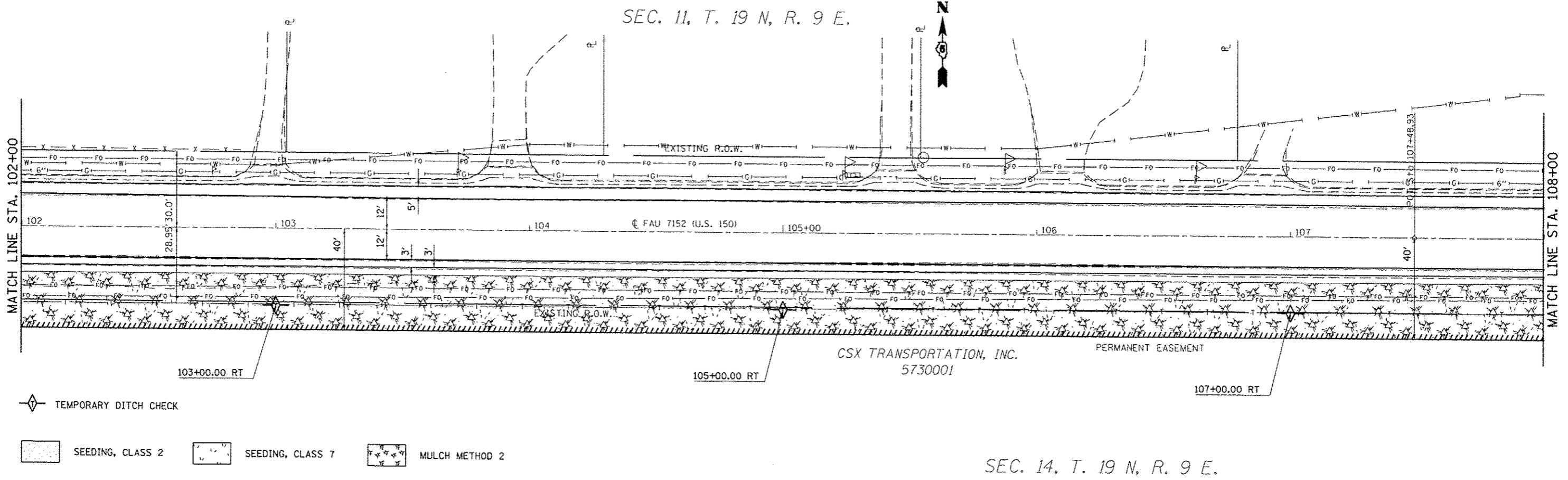


SECTION (2X,3)RS-3 & 2RS-4  
BEGINS STATION 97+55.22



SEC. 14, T. 19 N, R. 9 E.

SEC. 11, T. 19 N, R. 9 E.

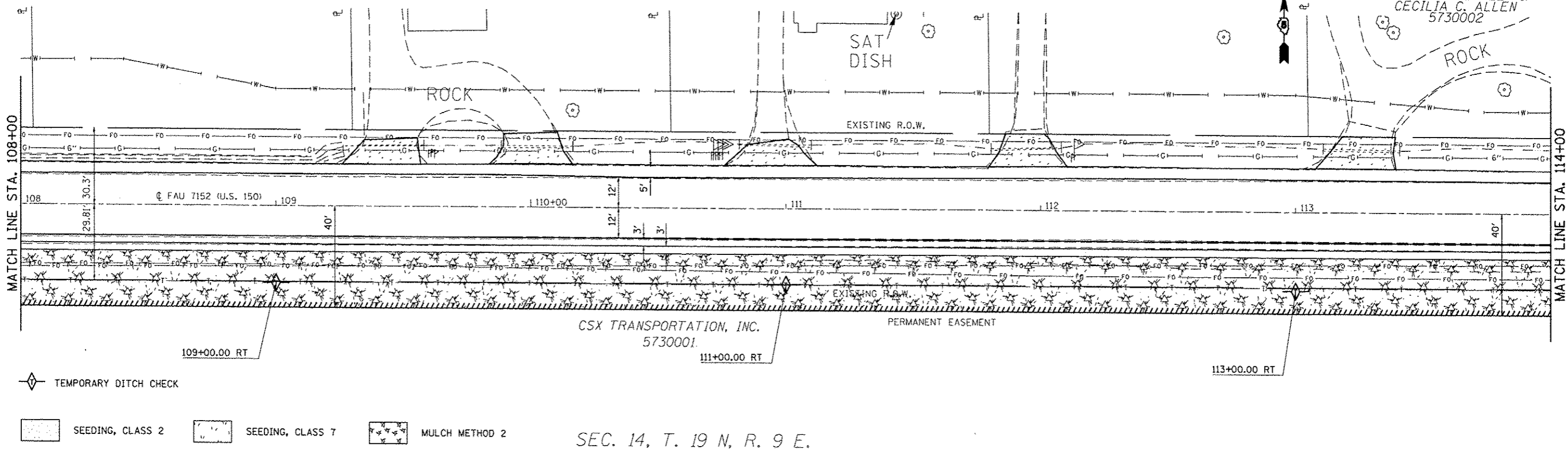


SEC. 14, T. 19 N, R. 9 E.

FILE NAME =	USER NAME = ceer-lock_jd	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EROSION CONTROL DETAILS US 150 MAINLINE</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwwork\pwwork\ceer-lock_jd\0128316\05	78663-shs\erosioncontrol.dgn	DRAWN -	REVISED -			• (2X,3)RS-3 & 2RS-4	Champaign	551	144	
	PLOT SCALE = 48,0000 / in.	CHECKED -	REVISED -			• F.A.U. 7152 & F.A.S. 1512			CONTRACT NO. 70663	
	PLOT DATE = 10/18/2013	DATE -	REVISED -						ILLINOIS FED. AID PROJECT	
					SCALE: 1:20	SHEET NO. 1 OF 23 SHEETS	STA. 97+55.22 TO STA. 108+00.00			

SEC. 11, T. 19 N, R. 9 E.

30-21-11-376-012  
ROGER F. BLAKLEY &  
CECILIA C. ALLEN  
5730002



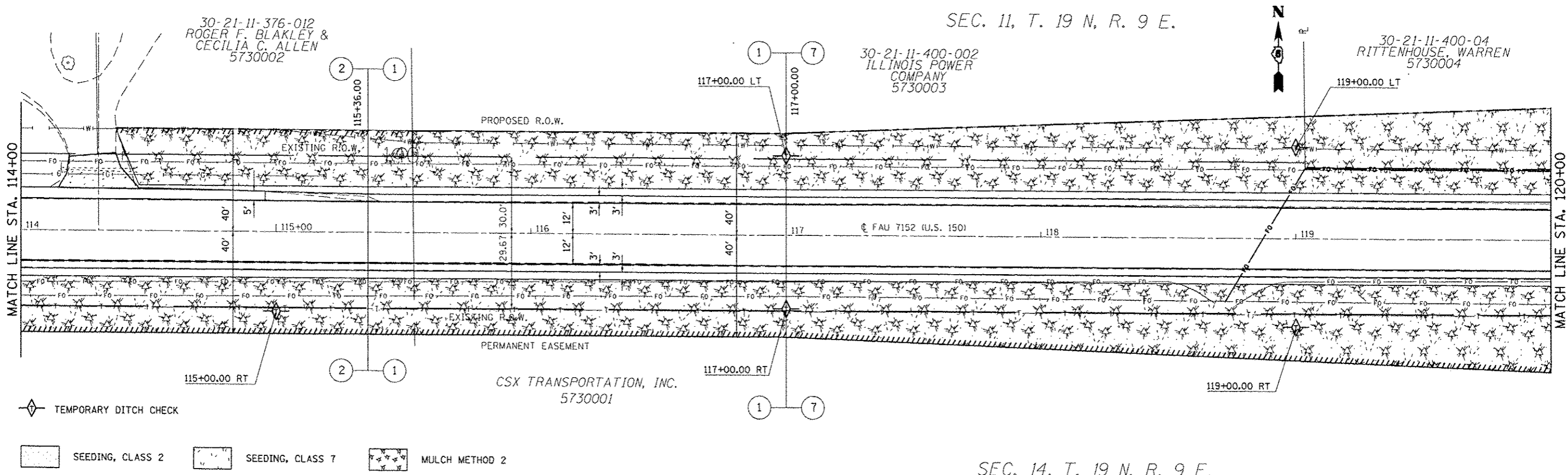
SEC. 14, T. 19 N, R. 9 E.

SEC. 11, T. 19 N, R. 9 E.

30-21-11-376-012  
ROGER F. BLAKLEY &  
CECILIA C. ALLEN  
5730002

30-21-11-400-002  
ILLINOIS POWER  
COMPANY  
5730003

30-21-11-400-04  
RITTENHOUSE, WARREN  
5730004



SEC. 14, T. 19 N, R. 9 E.

FILE NAME :	USER NAME = ceo-lackjd	DESIGNED -	REVISED -
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	PLOT SCALE = 48.0000 1" = 100'	CHECKED -	REVISED -
	PLOT DATE = 10/10/2013	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

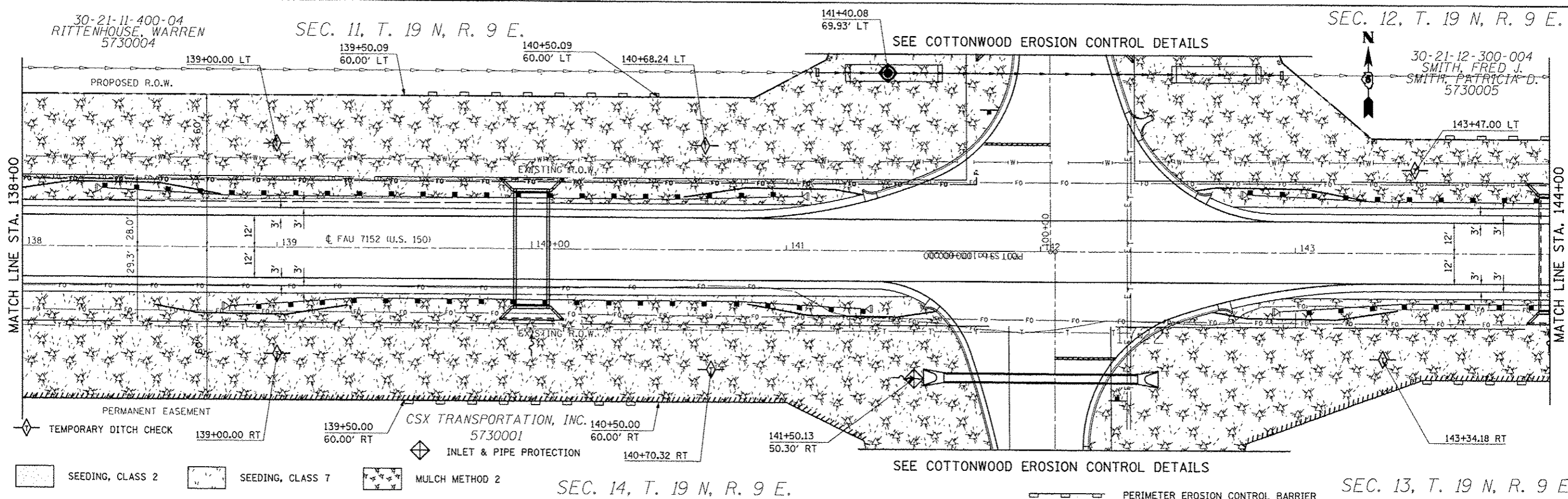
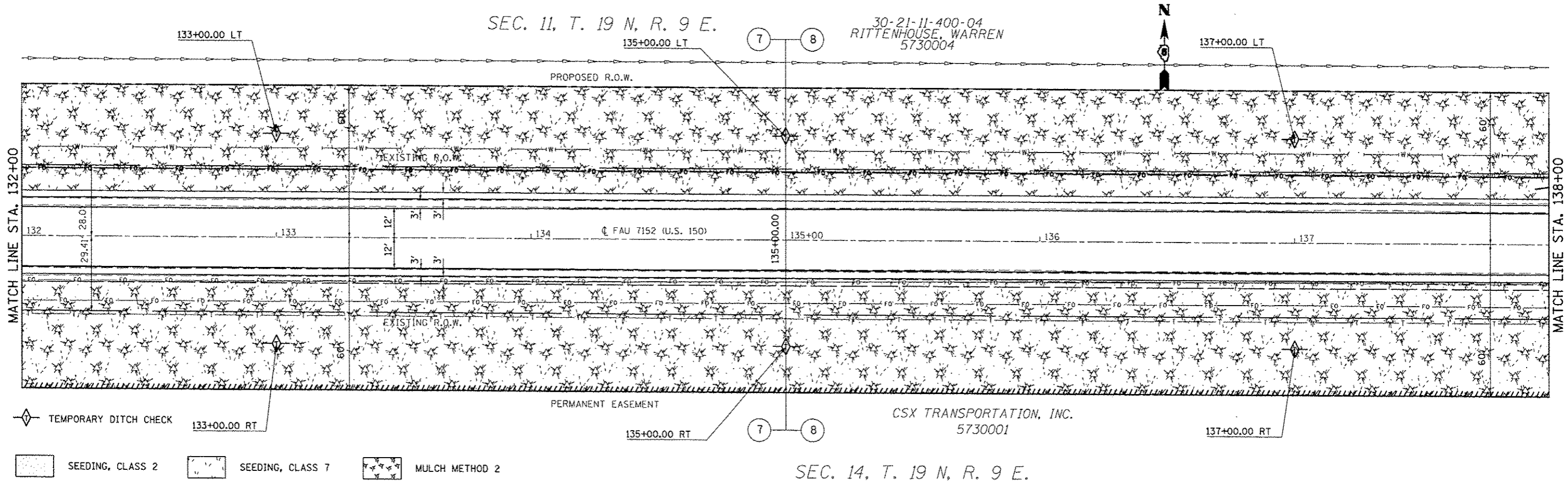
EROSION CONTROL DETAILS  
US 150 MAINLINE

SCALE: 1/20 SHEET NO. 2 OF 23 SHEETS STA. 108+00.00 TO STA. 120+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	(2X)RS-3 & 2RS-4	Champaign	551	145
•	F.A.U. 7152 & F.A.S. 1512			CONTRACT NO. 70663
ILLINOIS FED. AID PROJECT				



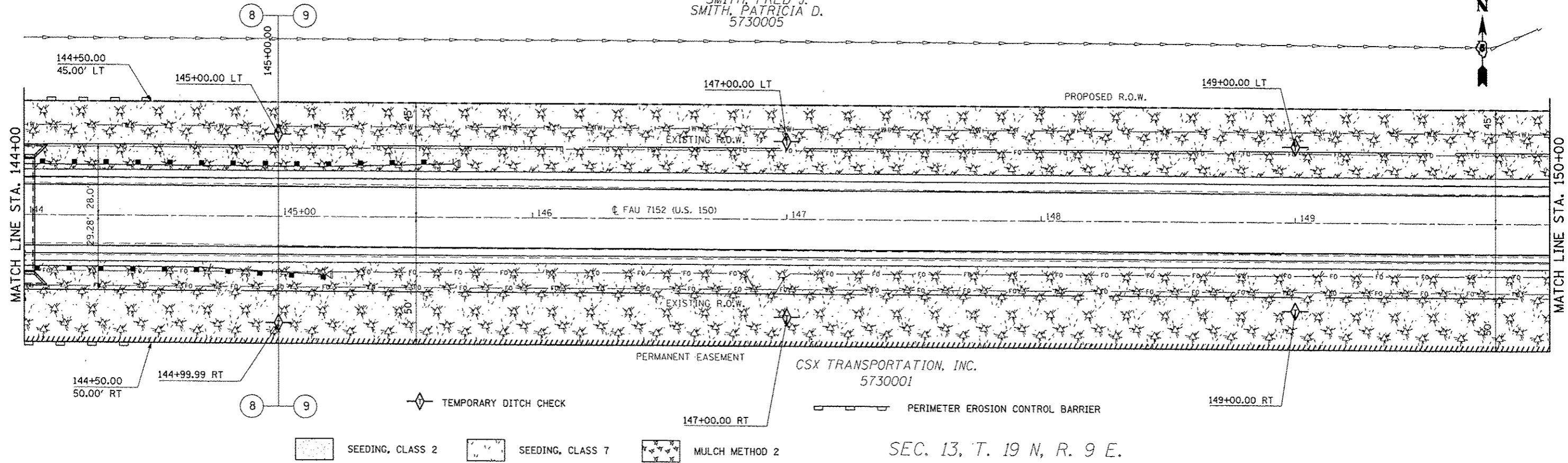




FILE NAME =	USER NAME = cmarlock_jd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL DETAILS US 150 MAINLINE	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwork\pwork\cmarlock_jd\20316\DS70663.sht-erosioncontrol.dgn		DRAWN -	REVISED -			•	(2X,3RS-3 & 2RS-4	Champaign	561	147
PLOT SCALE = 40.0000' / in.		CHECKED -	REVISED -			•	F.A.U. 7152 & F.A.S. 1512			CONTRACT NO. 70663
PLOT DATE = 10/18/2013		DATE -	REVISED -							ILLINOIS FED. AID PROJECT
					SCALE: 1:20	SHEET NO. 4 OF 23 SHEETS	STA. 132+00.00 TO STA. 144+00.00			

SEC. 12, T. 19 N, R. 9 E.

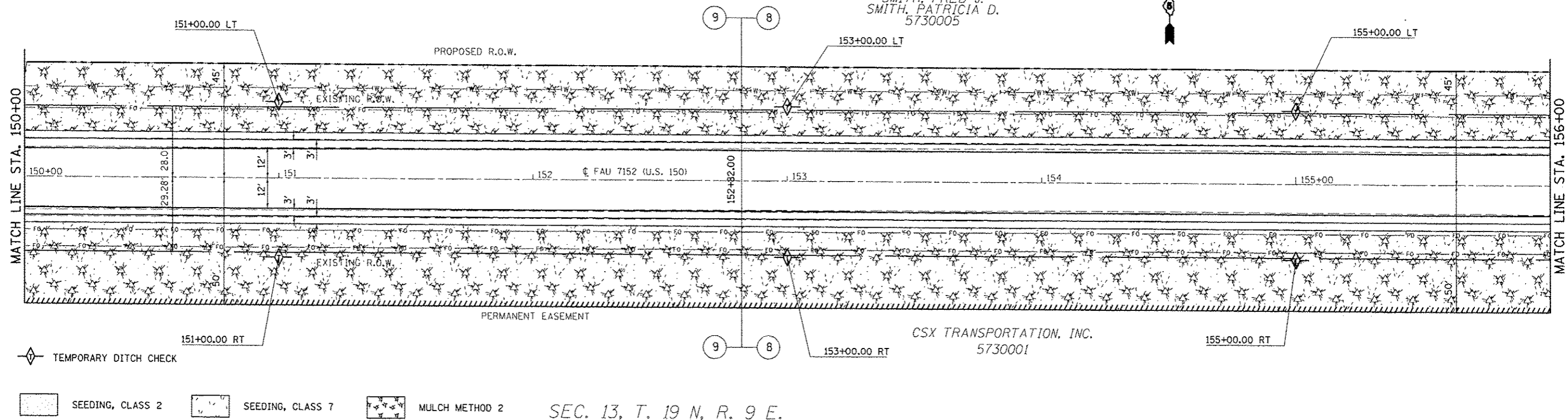
30-21-12-300-004  
SMITH, FRED J.  
SMITH, PATRICIA D.  
5730005



SEC. 13, T. 19 N, R. 9 E.

SEC. 12, T. 19 N, R. 9 E.

30-21-12-300-004  
SMITH, FRED J.  
SMITH, PATRICIA D.  
5730005



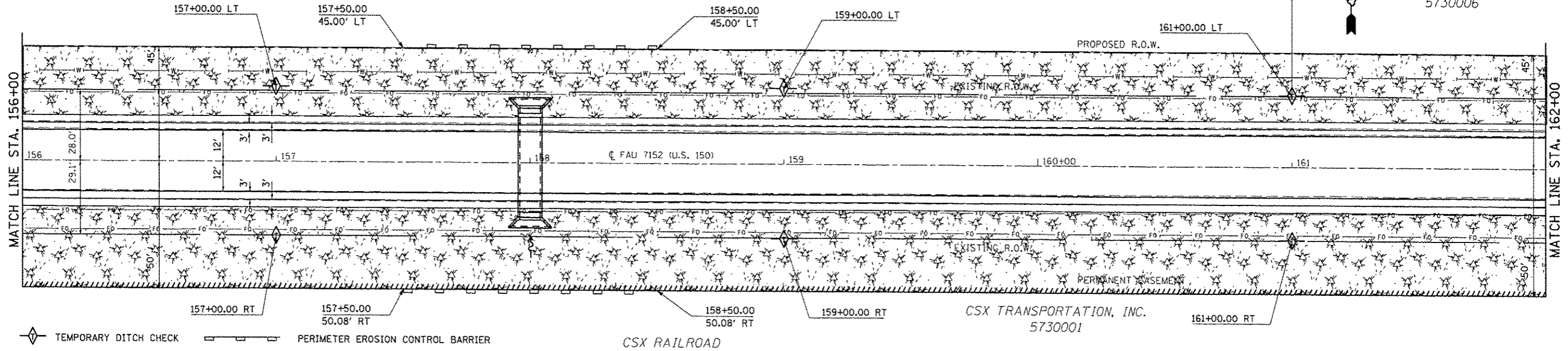
SEC. 13, T. 19 N, R. 9 E.

FILE NAME :	USER NAME : ceo-lock.jfd	DESIGNED :	REVISED :	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EROSION CONTROL DETAILS US 150 MAINLINE</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pwworkspace\ceo-lock.jfd\2016\07\20663-sht-erosioncontrol.dgn	7/26/16	DRAWN :	REVISED :		•	(2X,3)RS-3 & 2RS-4	Champaign	551	148			
PLOT SCALE = 48.0000' / 1" =		CHECKED :	REVISED :		•	F.A.U. 7152 & F.A.S. 1512			CONTRACT NO. 70663			
PLOT DATE = 10/10/2013		DATE :	REVISED :		ILLINOIS FED. AID PROJECT							
				SCALE: SHEET NO. 5 OF 23 SHEETS STA. 144+00.00 TO STA. 156+00.00								

SEC. 12, T. 19 N, R. 9 E.

30-21-12-300-004  
SMITH, FRED J.  
SMITH, PATRICIA D.  
5730005

30-21-12-300-005  
SMITH, DAVID T.  
5730006



CSX RAILROAD

CSX TRANSPORTATION, INC.  
5730001

TEMPORARY DITCH CHECK PERIMETER EROSION CONTROL BARRIER

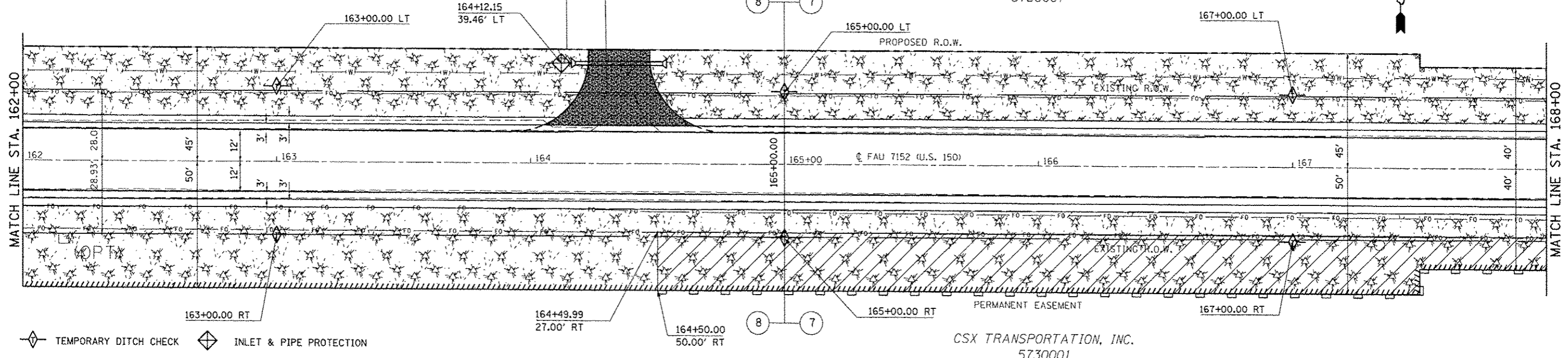
SEEDING, CLASS 2 SEEDING, CLASS 7 MULCH METHOD 2

SEC. 13, T. 19 N, R. 9 E.

SEC. 12, T. 19 N, R. 9 E.

30-21-12-300-005  
SMITH, DAVID T.  
5730006

30-21-12-400-001  
SMITH, LORENE RUBY  
5730007



CSX TRANSPORTATION, INC.  
5730001

TEMPORARY DITCH CHECK INLET & PIPE PROTECTION

SEEDING, CLASS 2 SEEDING, CLASS 7 MULCH METHOD 2 SEEDING, CLASS 4 & 5A

SEC. 13, T. 19 N, R. 9 E.

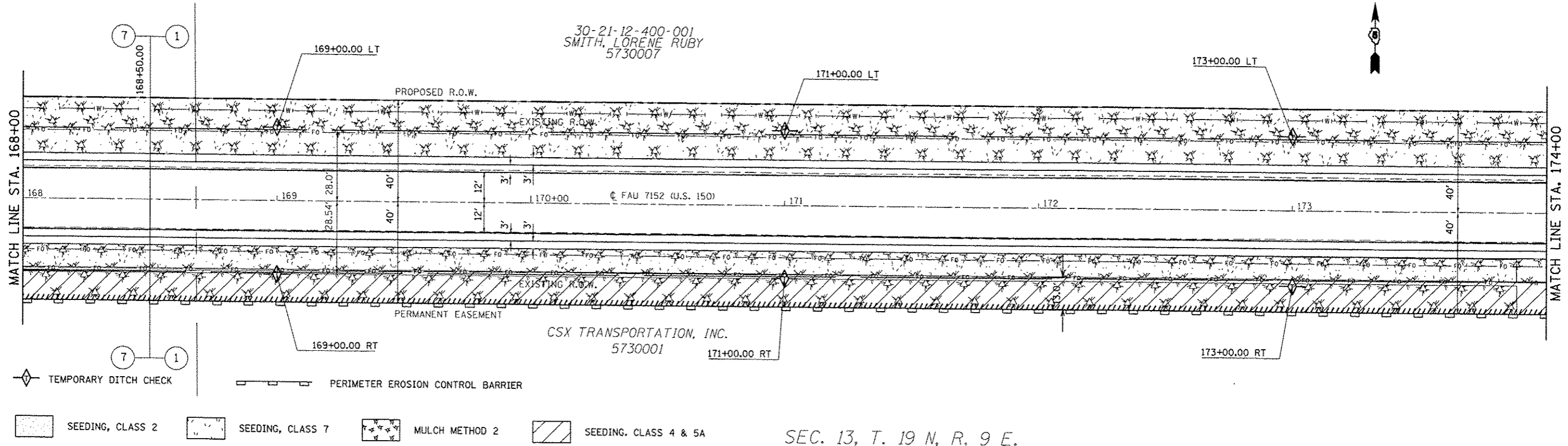
PERIMETER EROSION CONTROL BARRIER

FILE NAME :	USER NAME : ceatlockjd	DESIGNED :	REVISED :	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EROSION CONTROL DETAILS US 150 MAINLINE</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ce:\p\work\p\dot\ceatlockjd\0120316\0270663-eh\erossioncontrol.dgn		DRAWN :	REVISED :		SCALE: 1:20	SHEET NO. 6 OF 23 SHEETS	STA. 156+00.00 TO STA. 168+00.00	12X,3RS-3 & 2RS-4	Champaign	551	149	
		CHECKED :	REVISED :					F.A.U. 7152 & F.A.S. 1512				CONTRACT NO. 70663
		DATE :	REVISED :					ILLINOIS FED. AID PROJECT				



SEC. 12, T. 19 N, R. 9 E.

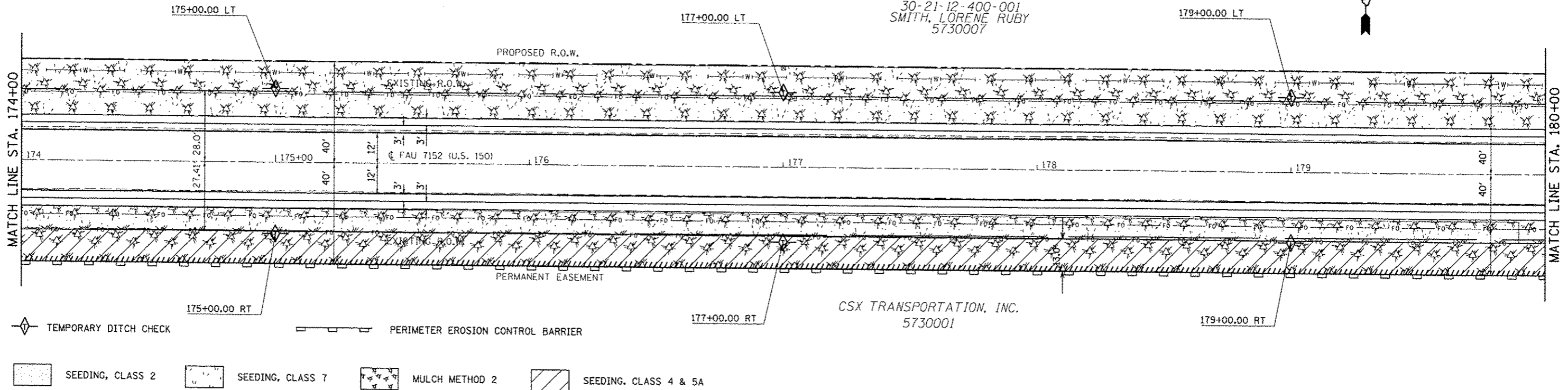
30-21-12-400-001  
SMITH, LORENE RUBY  
5730007



SEC. 13, T. 19 N, R. 9 E.

SEC. 12, T. 19 N, R. 9 E.

30-21-12-400-001  
SMITH, LORENE RUBY  
5730007



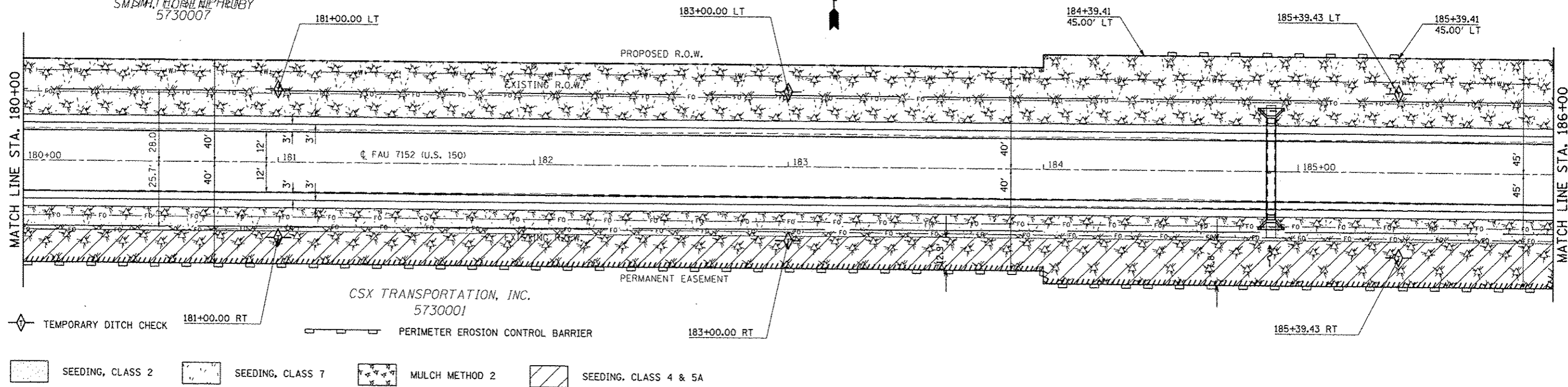
SEC. 13, T. 19 N, R. 9 E.

FILE NAME : c:\pwwork\p\d\lock\lock\j\0128316\178663-sh1-erosioncontrol.dgn	USER NAME : user-lockjd	DESIGNED : DRAWN : CHECKED : DATE :	REVISED : REVISED : REVISED : REVISED :	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EROSION CONTROL DETAILS US 150 MAINLINE</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
					SCALE:	SHEET NO. 7 OF 23 SHEETS	STA. 168+00.00 TO STA. 180+00.00	• F.A.U. 7152 & F.A.S. 1512	Champaign	Illinois	551	150
CONTRACT NO. 70663 ILLINOIS FED. AID PROJECT												

SEC. 12, T. 19 N, R. 9 E.

30-21-12-400-002  
MERRYMAN, SHIRLEY H.  
5730008

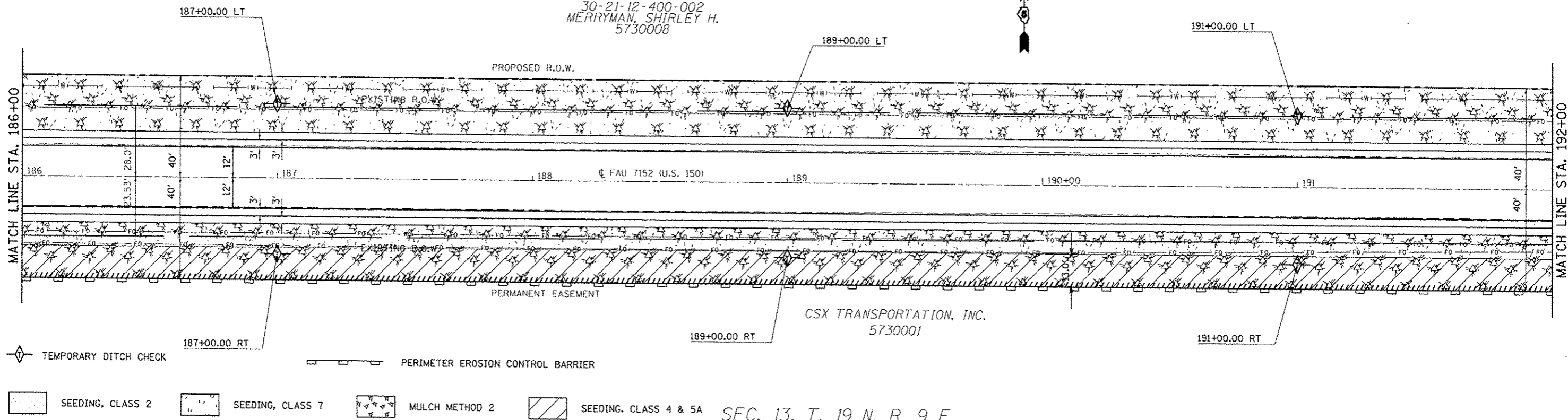
30-21-12-400-001  
SMITH, HOSEAH HENRY  
5730007



SEC. 13, T. 19 N, R. 9 E.

SEC. 12, T. 19 N, R. 9 E.

30-21-12-400-002  
MERRYMAN, SHIRLEY H.  
5730008

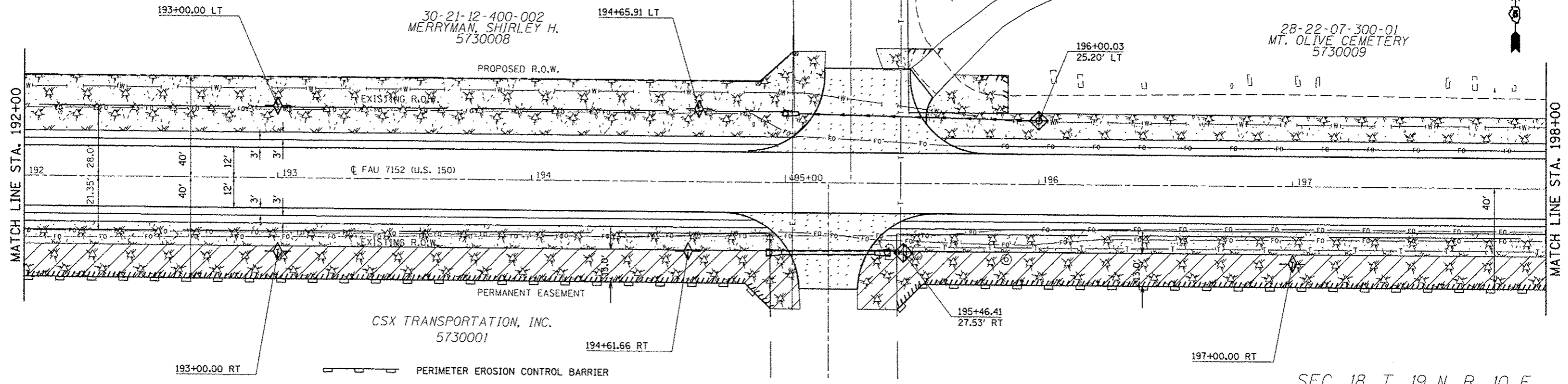


SEC. 13, T. 19 N, R. 9 E.

FILE NAME : c:\p\work\p\dot\c\er-lock_jd\9128316\05	USER NAME : c\er-lock_jd	DESIGNED : DRAWN : CHECKED : DATE :	REVISED : REVISED : REVISED : REVISED :	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EROSION CONTROL DETAILS US 150 MAINLINE</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
						• F.A.U. 7152 & F.A.S. 1512	Champaign	551	151	CONTRACT NO. 70663
SCALE: 1:20					SHEET NO. 8 OF 23 SHEETS		STA. 180+00.00 TO STA. 192+00.00			

SEC. 12, T. 19 N, R. 9 E.

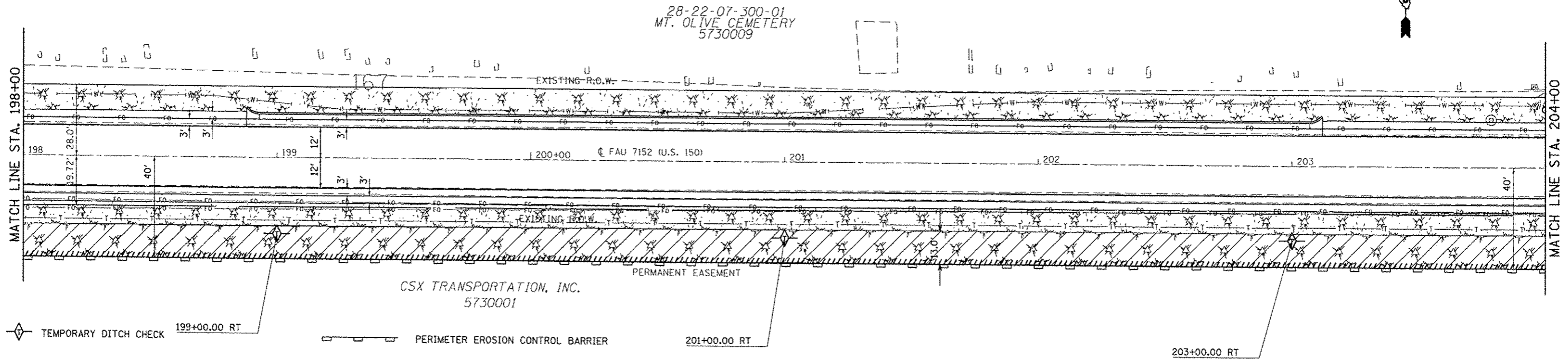
SEC. 7, T. 19 N, R. 10 E.



SEC. 13, T. 19 N, R. 9 E.

SEC. 18, T. 19 N, R. 10 E.

SEC. 7, T. 19 N, R. 10 E.



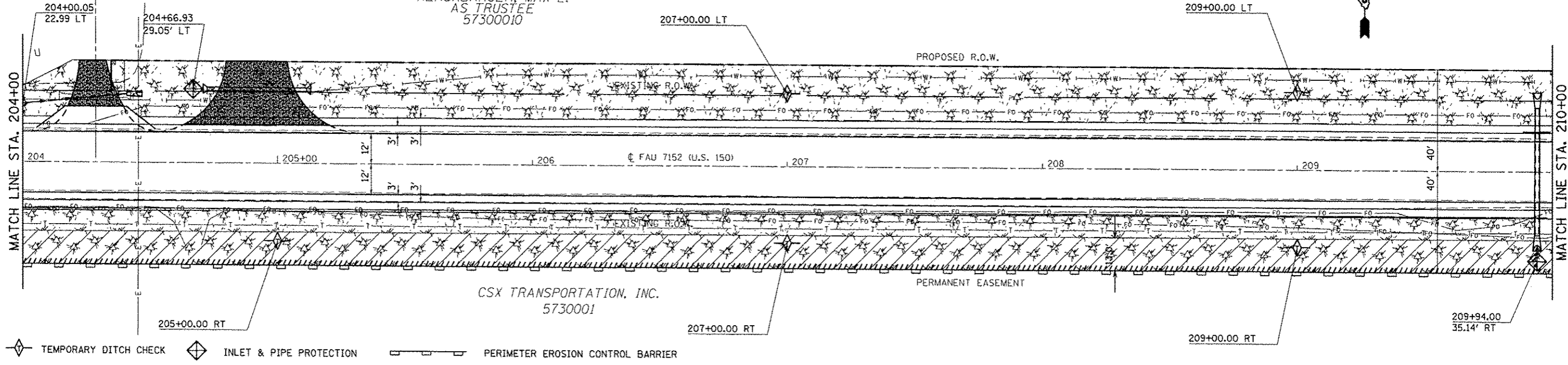
SEC. 18, T. 19 N, R. 10 E.

FILE NAME c:\pwwork\p\d\c\carlockj\d\0120316\070663-sh1-erosioncontrol.dgn	USER NAME carlockj	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EROSION CONTROL DETAILS US 150 MAINLINE</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 48,000' / in.	CHECKED -	REVISED -	REVISED -		SCALE: 1:20	SHEET NO. 9 OF 23 SHEETS	STA. 192+00.00 TO STA. 204+00.00	• F.A.U. 7152 & F.A.S. 1512	Champaign	551	152	
PLOT DATE = 10/16/2013	DATE -	REVISED -	REVISED -					CONTRACT NO. 70663				
[ILLINOIS] FED. AID PROJECT												



SEC. 7, T. 19 N, R. 10 E.

28-22-07-300-002  
HERSHBARGER, MAX L.  
AS TRUSTEE  
57300010



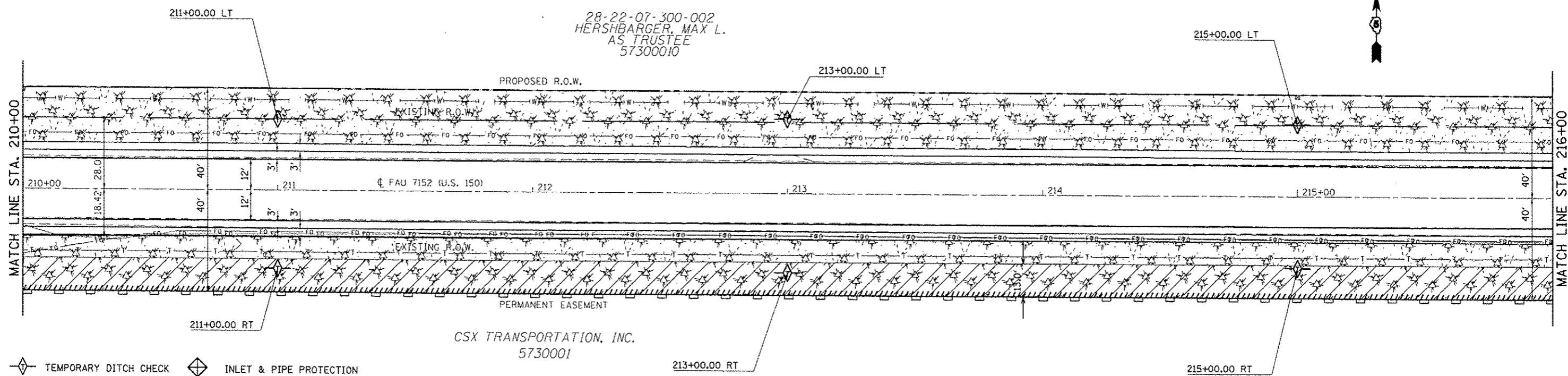
TEMPORARY DITCH CHECK  
 INLET & PIPE PROTECTION  
 PERIMETER EROSION CONTROL BARRIER

SEEDING, CLASS 2  
 SEEDING, CLASS 7  
 MULCH METHOD 2  
 SEEDING, CLASS 4 & 5A

SEC. 18, T. 19 N, R. 10 E.

SEC. 7, T. 19 N, R. 10 E.

28-22-07-300-002  
HERSHBARGER, MAX L.  
AS TRUSTEE  
57300010



TEMPORARY DITCH CHECK  
 INLET & PIPE PROTECTION

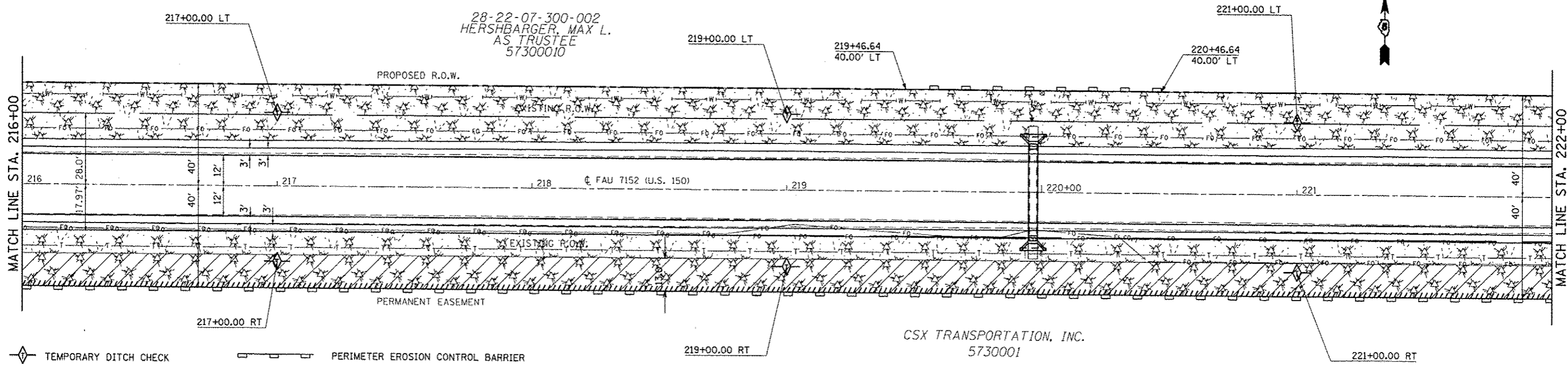
SEEDING, CLASS 2  
 SEEDING, CLASS 7  
 MULCH METHOD 2  
 SEEDING, CLASS 4 & 5A

SEC. 18, T. 19 N, R. 10 E.

PERIMETER EROSION CONTROL BARRIER

FILE NAME =	USER NAME = ceerlockjd	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EROSION CONTROL DETAILS US 150 MAINLINE</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ce:\pwork\p\p\ceerlockjd\128316\28663-sht-erosioncontrol.dgn	PLOT SCALE = 48.0000' / in.	DRAWN -	REVISED -			• (2X,3RS-3 & 2RS-4	Champaign	551	153	
	PLOT DATE = 10/10/2013	CHECKED -	REVISED -			• F.A.U. 7152 & F.A.S. 1512			CONTRACT NO. 70663	
		DATE -	REVISED -						ILLINOIS FED. AID PROJECT	
					SCALE: 1:20	SHEET NO. 10 OF 23 SHEETS	STA. 204+00.00 TO STA. 216+00.00			

SEC. 7, T. 19 N, R. 10 E.

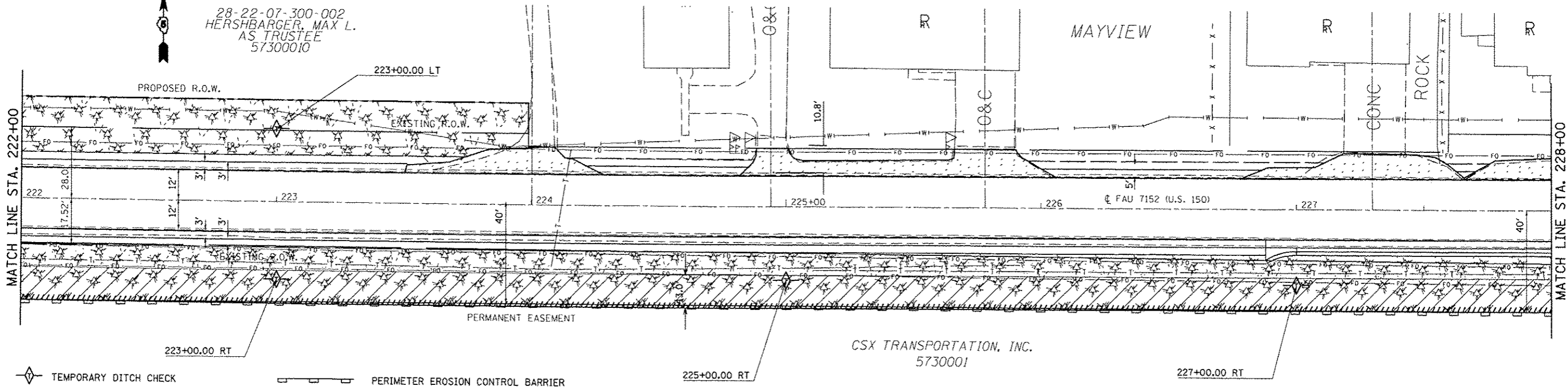


- ◆ TEMPORARY DITCH CHECK
- ▬ PERIMETER EROSION CONTROL BARRIER
- SEEDING, CLASS 2
- SEEDING, CLASS 7
- MULCH METHOD 2
- SEEDING, CLASS 4 & 5A

SEC. 18, T. 19 N, R. 10 E.

CSX TRANSPORTATION, INC.  
5730001

SEC. 7, T. 19 N, R. 10 E.



- ◆ TEMPORARY DITCH CHECK
- ▬ PERIMETER EROSION CONTROL BARRIER
- SEEDING, CLASS 2
- SEEDING, CLASS 7
- MULCH METHOD 2
- SEEDING, CLASS 4 & 5A

SEC. 18, T. 19 N, R. 10 E.

CSX TRANSPORTATION, INC.  
5730001

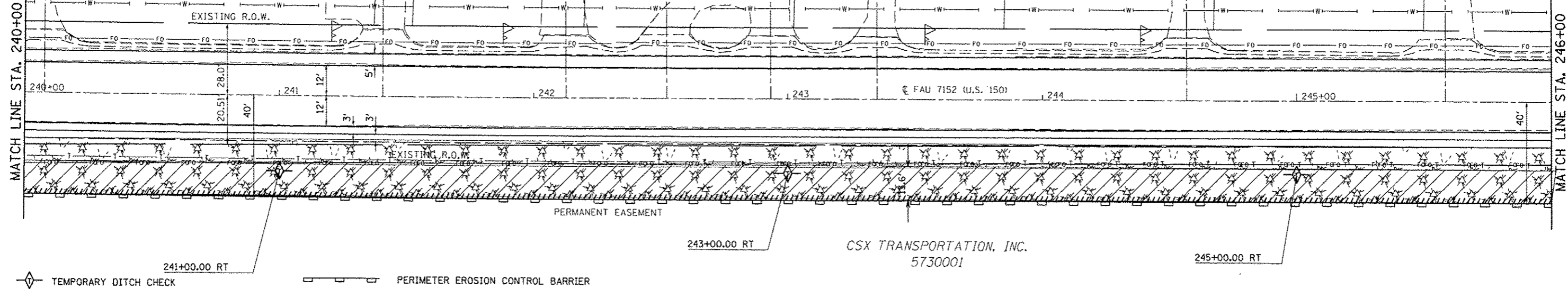
FILE NAME :	USER NAME : ceo-lock jd	DESIGNED :	REVISED :	<b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b>	<b>EROSION CONTROL DETAILS</b> <b>US 150 MAINLINE</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwork\pwork\ceo-lock jd\0120316\0528663-sh1-erosioncontrol.dgn	PLDT SCALE = 48,0000 / 1 in.	DRAWN :	REVISED :			• (2X,3)RS-3 & 2RS-4	Champaign	551	154	
PLDT DATE = 10/18/2013	DATE :	CHECKED :	REVISED :			• F.A.U. 7152 & F.A.S. 1512			CONTRACT NO. 70663	
									ILLINOIS FED. AID PROJECT	
					SCALE: 1:20	SHEET NO. 11 OF 23 SHEETS		STA. 216+00.00 TO STA. 228+00.00		





SEC. 7, T. 19 N, R. 10 E.

MAYVIEW



- SEEDING, CLASS 2
- SEEDING, CLASS 7
- MULCH METHOD 2
- SEEDING, CLASS 4 & 5A

SEC. 18, T. 19 N, R. 10 E.

SEC. 7, T. 19 N, R. 10 E.

MAYVIEW

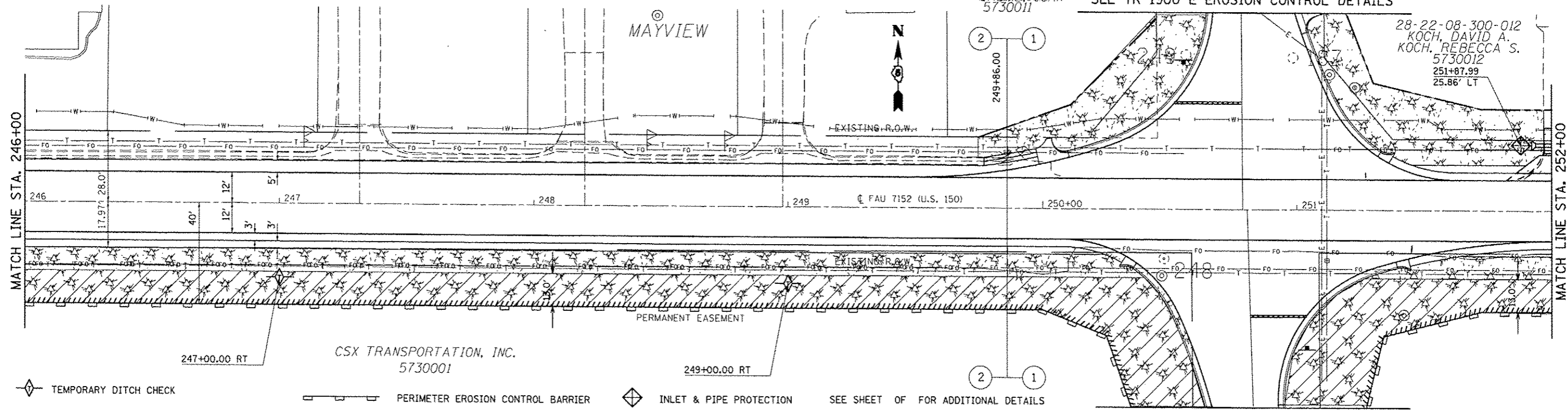


282220761701013  
 ORIGINAL JOHN  
 5730011

SEE TR 1900 E EROSION CONTROL DETAILS

SEC. 8, T. 19 N, R. 10 E.

28-22-08-300-012  
 KOCH, DAVID A.  
 KOCH, REBECCA S.  
 5730012  
 251+87.99  
 25.86' LT



- SEEDING, CLASS 2
- SEEDING, CLASS 7
- MULCH METHOD 2
- SEEDING, CLASS 4 & 5A

SEC. 18, T. 19 N, R. 10 E.

SEE TR 1900 E EROSION CONTROL DETAILS

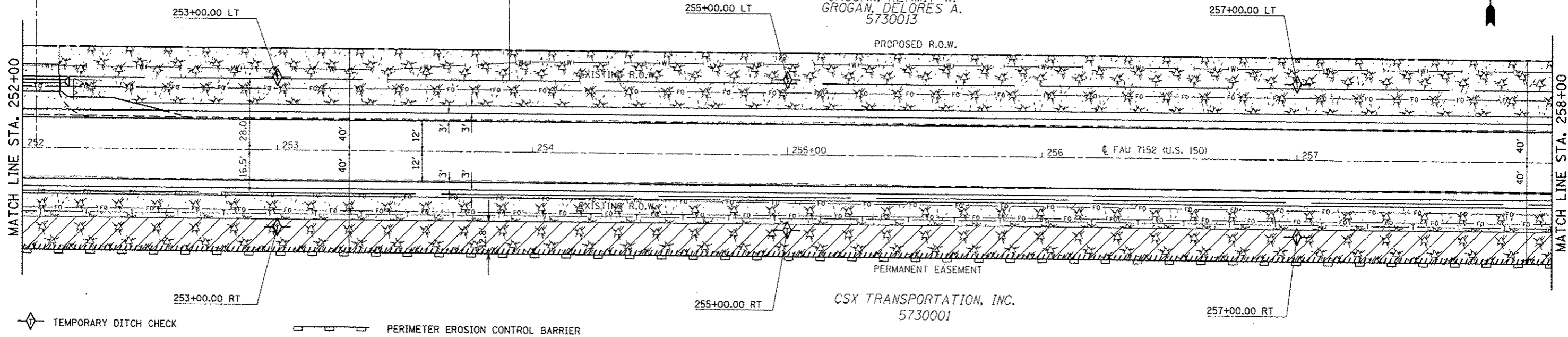
SEC. 17, T. 19 N, R. 10 E.

FILE NAME :	USER NAME : ceo-lock_jd	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EROSION CONTROL DETAILS US 150 MAINLINE</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ci:\pwork\p\pdat\ceo-lock_jd\20120316\0678863-shr-erosioncontrol.dgn		DRAWN -	REVISED -			• (2X,3RS-3 & 2RS-4	Champaign	551	156	
PLOT SCALE = 1/8" = 1'-0"		CHECKED -	REVISED -			• F.A.U. 7152 & F.A.S. 1512	CONTRACT NO. 70663			
PLOT DATE = 10/10/2013		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

28-22-08-300-012  
 KOCH, DAVID A.  
 KOCH, REBECCA S.  
 5730012

SEC. 8, T. 19 N, R. 10 E.

28-22-08-300-011  
 GROGAN, KERMIT W.  
 GROGAN, DELORES A.  
 5730013

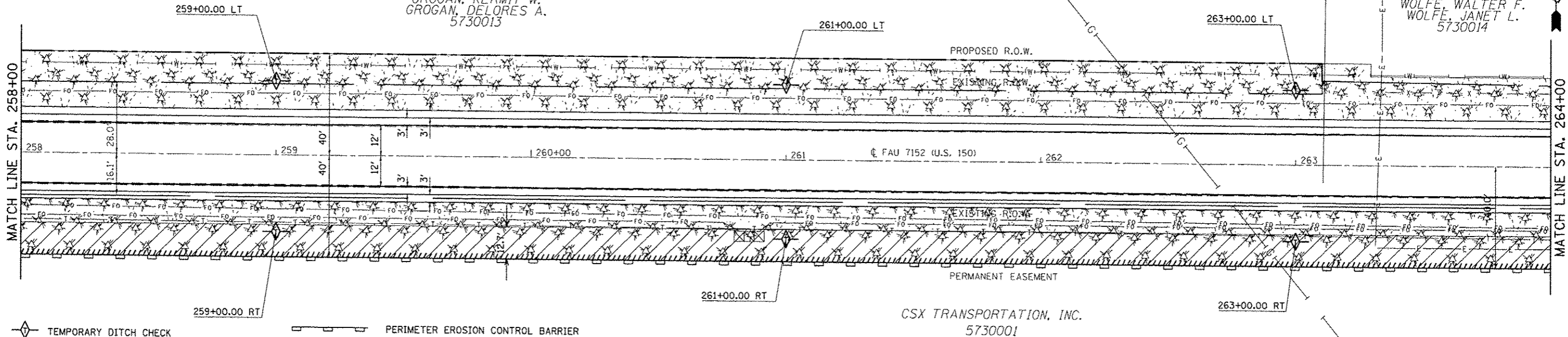


SEC. 17, T. 19 N, R. 10 E.

SEC. 8, T. 19 N, R. 10 E.

28-22-08-300-011  
 GROGAN, KERMIT W.  
 GROGAN, DELORES A.  
 5730013

28-22-08-376-002  
 WOLFE, WALTER F.  
 WOLFE, JANET L.  
 5730014



SEC. 17, T. 19 N, R. 10 E.

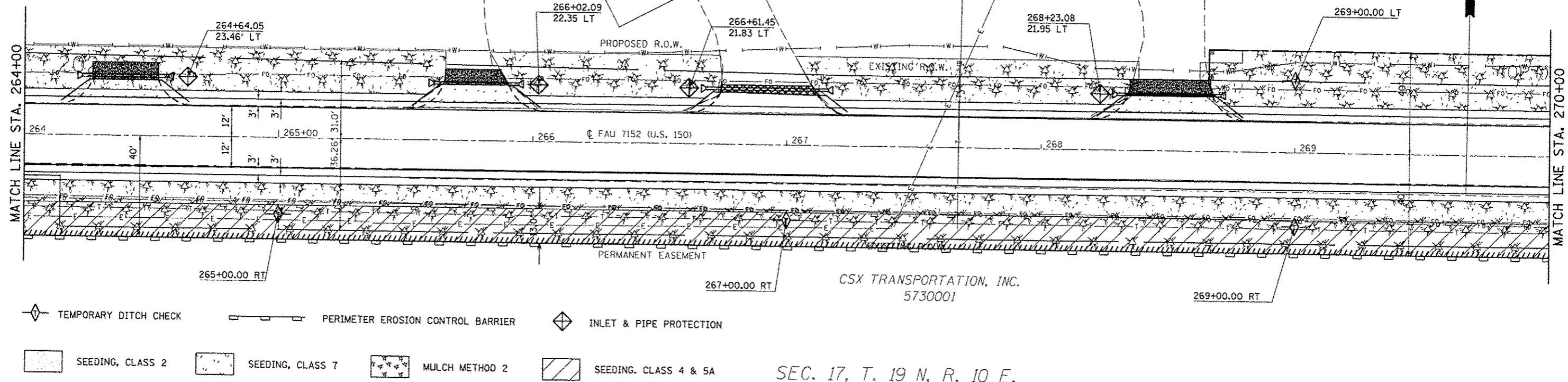
FILE NAME :	USER NAME : ceerlockjd	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EROSION CONTROL DETAILS US 150 MAINLINE</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\\pwork\pwork\ceerlockjd\28316\08663-sht-erosioncontrol.dgn.dgn	PLOT SCALE = 48,0000 / in.	DRAWN -	REVISED -			•	(2X,3)RS-3 & 2RS-4	Champaign	551	157
	PLOT DATE = 10/18/2013	CHECKED -	REVISED -			•	F.A.U. 7152 & F.A.S. 1512			CONTRACT NO. 70663
		DATE -	REVISED -							ILLINOIS FED. AID PROJECT
					SCALE: 1:20	SHEET NO. 14 OF 23 SHEETS		STA. 252+00.00 TO STA. 264+00.00		

28-22-08-376-002  
WOLFE, WALTER F.  
WOLFE, JANET L.  
5730014

SEC. 8, T. 19 N, R. 10 E.

28-22-08-376-001  
WOLFE, WALTER F.  
WOLFE, JANET L.

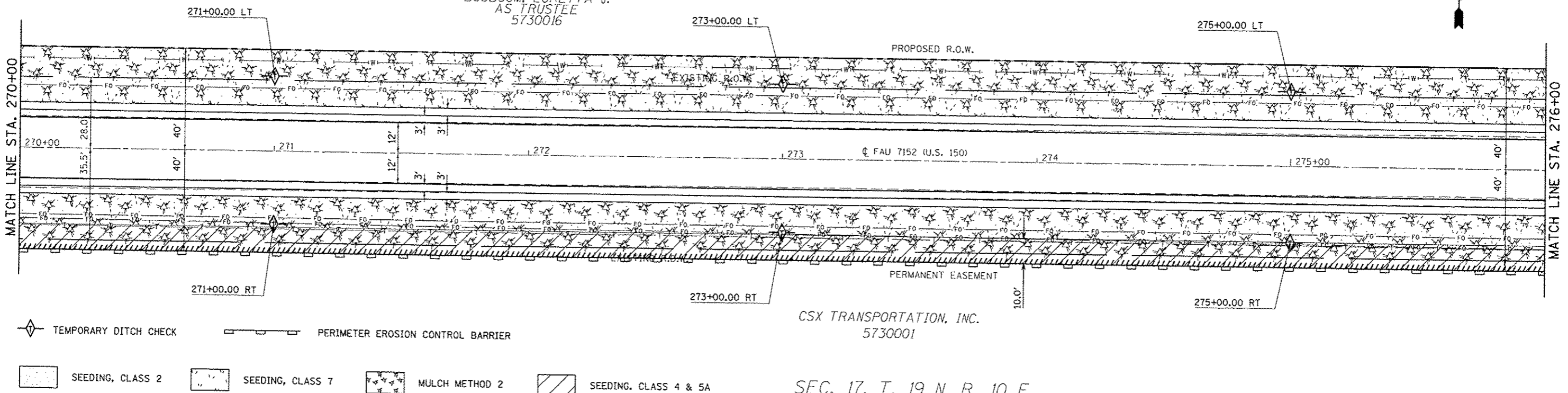
28-22-08-300-08  
LUEBCHOW, KEVIN H.  
LUEBCHOW, PAIGE L.  
5730015



SEC. 17, T. 19 N, R. 10 E.

SEC. 8, T. 19 N, R. 10 E.

28-22-08-300-013  
BUSBOOM, DALE H.  
BUSBOOM, LORETTA J.  
AS TRUSTEE  
5730016



SEC. 17, T. 19 N, R. 10 E.

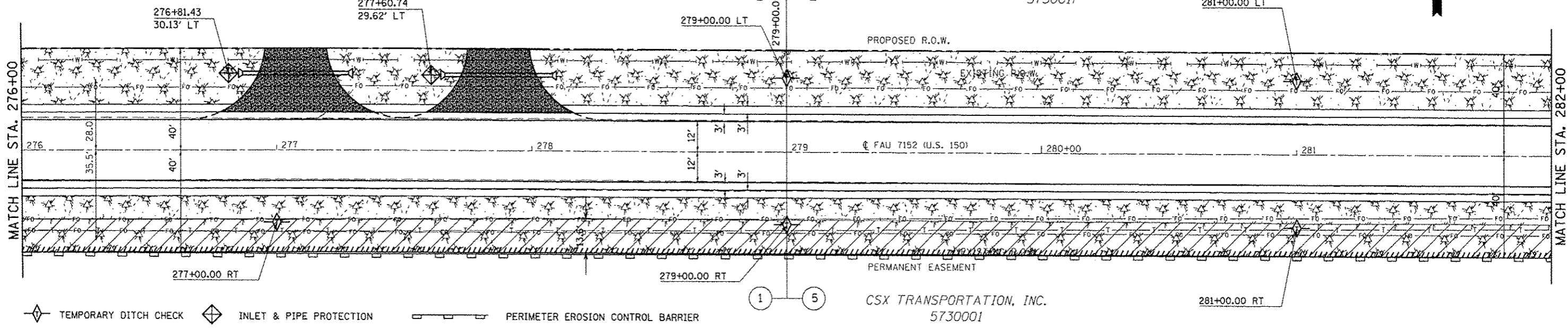
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	08653-shr-erosioncontrol.dgn	DRAWN : -	REVISED : -		SCALE: 1:20	SHEET NO. 15 OF 23 SHEETS	STA. 264+00.00 TO STA. 276+00.00	12X.3RS-3 & 2RS-4	Champaign	551	158	
	PLOT SCALE = 48.0000" / in.	CHECKED : -	REVISED : -					F.A.U. 7152 & F.A.S. 1512				CONTRACT NO. 70663
	PLOT DATE = 10/19/2013	DATE : -	REVISED : -					ILLINOIS FED. AID PROJECT				



28-22-08-300-013  
 BUSBOOM, DALE H.  
 BUSBOOM, LORETTA J.  
 AS TRUSTEE  
 5730016

SEC. 8, T. 19 N, R. 10 E.

28-22-08-400-003  
 HERSHBERGER, JAMES  
 HERSHBERGER, MAX L.  
 AS TRUSTEE  
 5730017



◇ TEMPORARY DITCH CHECK   ◇ INLET & PIPE PROTECTION   — PERIMETER EROSION CONTROL BARRIER

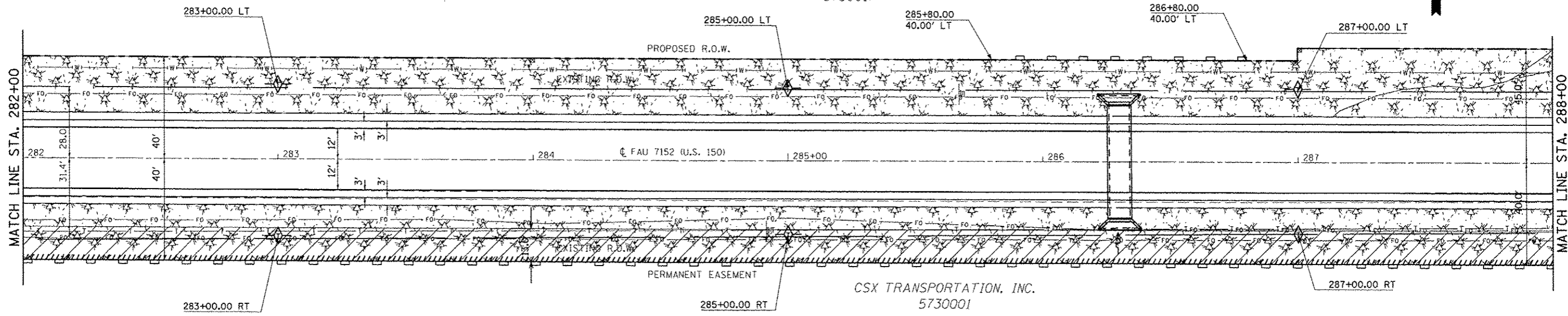
SEEDING, CLASS 2   SEEDING, CLASS 7   MULCH METHOD 2   SEEDING, CLASS 4 & 5A

CSX TRANSPORTATION, INC.  
 5730001

SEC. 17, T. 19 N, R. 10 E.

SEC. 8, T. 19 N, R. 10 E.

28-22-08-400-003  
 HERSHBERGER, JAMES  
 HERSHBERGER, MAX L.  
 AS TRUSTEE  
 5730017



◇ TEMPORARY DITCH CHECK   — PERIMETER EROSION CONTROL BARRIER   ◇ INLET & PIPE PROTECTION

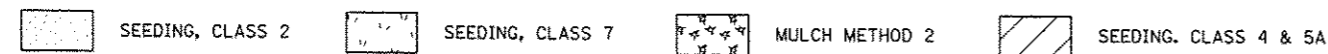
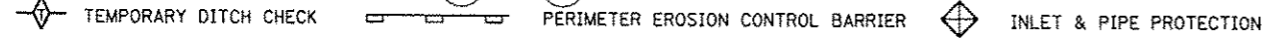
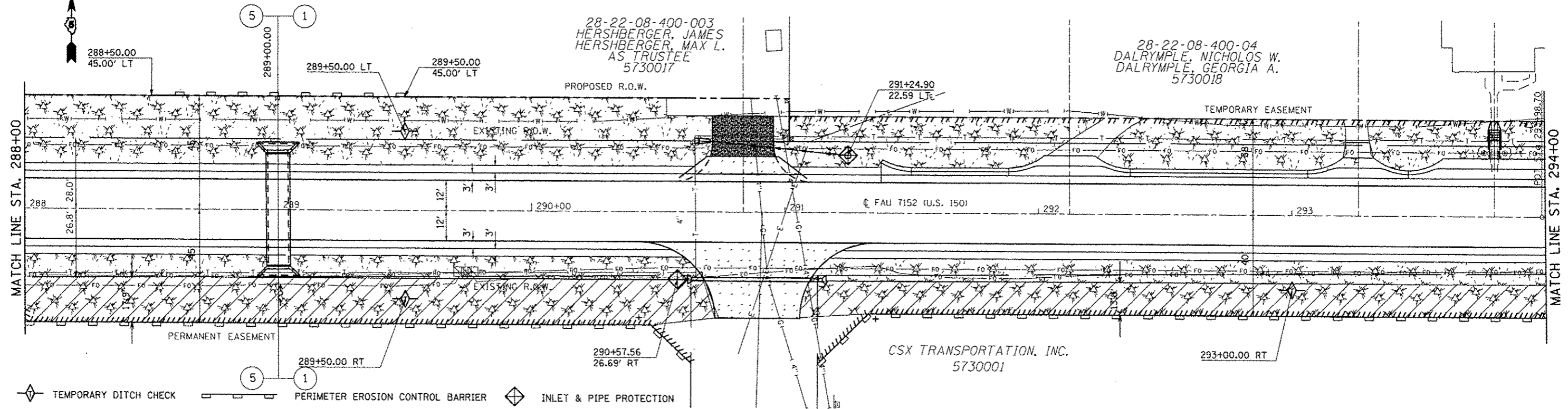
SEEDING, CLASS 2   SEEDING, CLASS 7   MULCH METHOD 2   SEEDING, CLASS 4 & 5A

CSX TRANSPORTATION, INC.  
 5730001

SEC. 17, T. 19 N, R. 10 E.

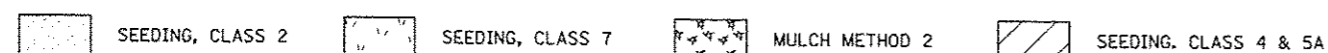
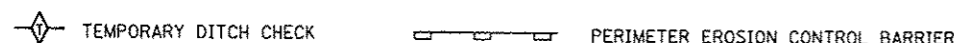
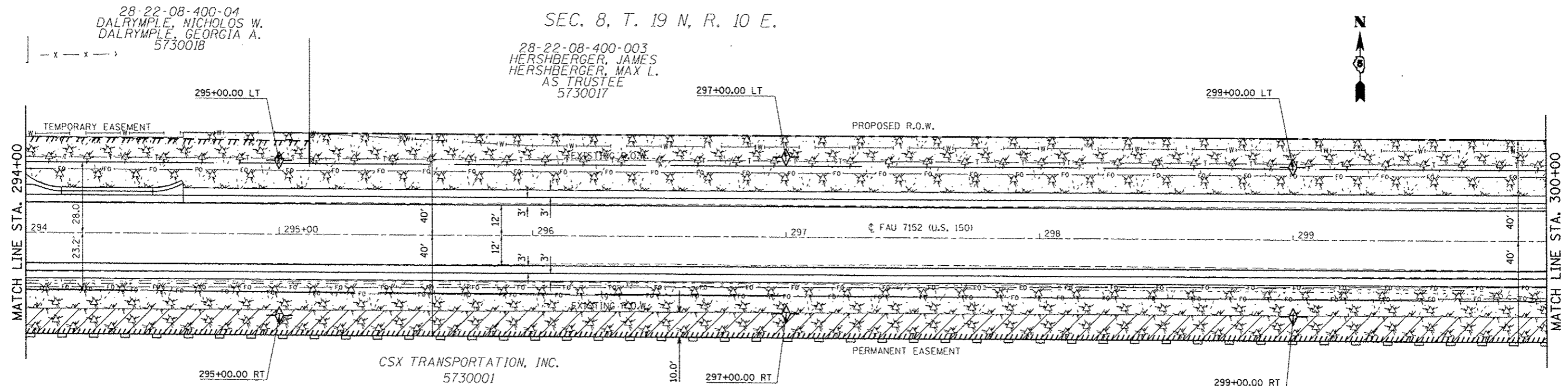
FILE NAME er:\p\work\p\road\erlock\erlock.dwg	USER NAME erlockjd	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EROSION CONTROL DETAILS US 150 MAINLINE</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 48.0000' / in.	CHECKED -	REVISED -	•				(2X,3RS-3 & 2RS-4	Champaign	551	159	
PLOT DATE = 10/18/2013	DATE -	REVISED -	•				F.A.U. 7152 & F.A.S. 1512			CONTRACT NO. 70663	
										ILLINOIS FED. AID PROJECT	
				SCALE: 1:20	SHEET NO. 16 OF 23 SHEETS	STA. 276+00.00 TO STA. 288+00.00					

SEC. 8, T. 19 N, R. 10 E.



SEC. 17, T. 19 N, R. 10 E.

SEC. 8, T. 19 N, R. 10 E.



SEC. 17, T. 19 N, R. 10 E.

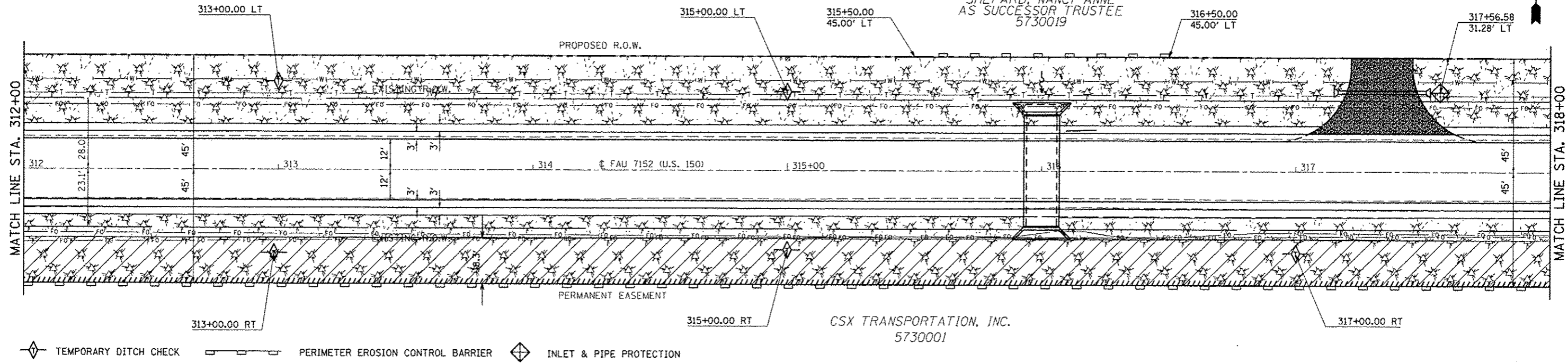
FILE NAME =	USER NAME = amr/lockjd	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EROSION CONTROL DETAILS US 150 MAINLINE</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
en:\pwwork\spidat\amr\lockjd\0128316\0128316.dgn	70663-sh1-erosioncontrol.dgn	DRAWN -	REVISED -		SCALE: 1:20	SHEET NO. 17 OF 23 SHEETS	STA. 288+00.00 TO STA. 300+00.00	• (2X,3RS-3 & 2RS-4	Champaign	551	160	
	PLOT SCALE = 48.0000 / in.	CHECKED -	REVISED -					• F.A.U. 7152 & F.A.S. 1512				CONTRACT NO. 70663
	PLOT DATE = 10/10/2013	DATE	REVISED -					ILLINOIS FED. AID PROJECT				





SEC. 9, T. 19 N, R. 10 E.

28-22-09-300-001  
SHEPARD, NANCY ANNE  
AS SUCCESSOR TRUSTEE  
5730019

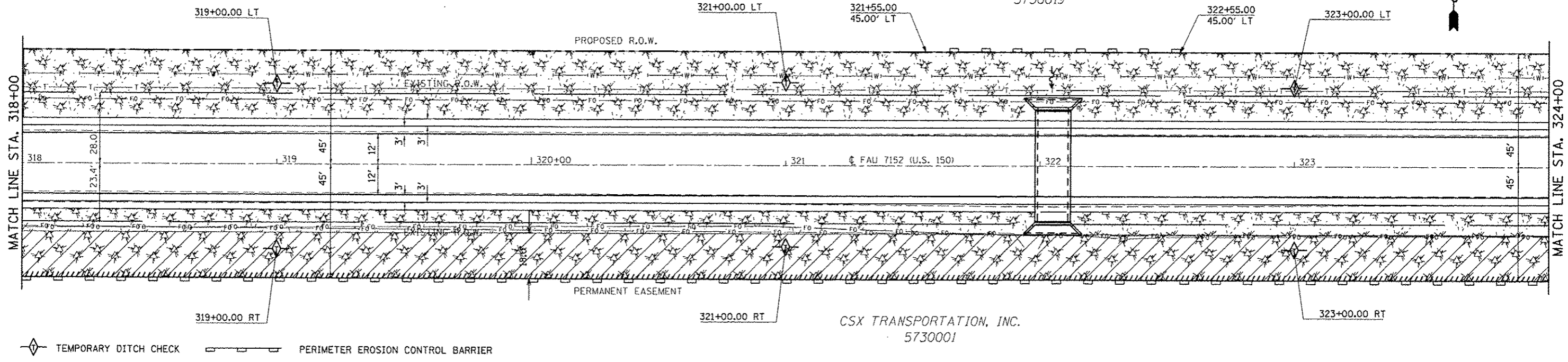


- SEEDING, CLASS 2
- SEEDING, CLASS 7
- MULCH METHOD 2
- SEEDING, CLASS 4 & 5A

SEC. 16, T. 19 N, R. 10 E.

SEC. 9, T. 19 N, R. 10 E.

28-22-09-300-001  
SHEPARD, NANCY ANNE  
AS SUCCESSOR TRUSTEE  
5730019



- SEEDING, CLASS 2
- SEEDING, CLASS 7
- MULCH METHOD 2
- SEEDING, CLASS 4 & 5A

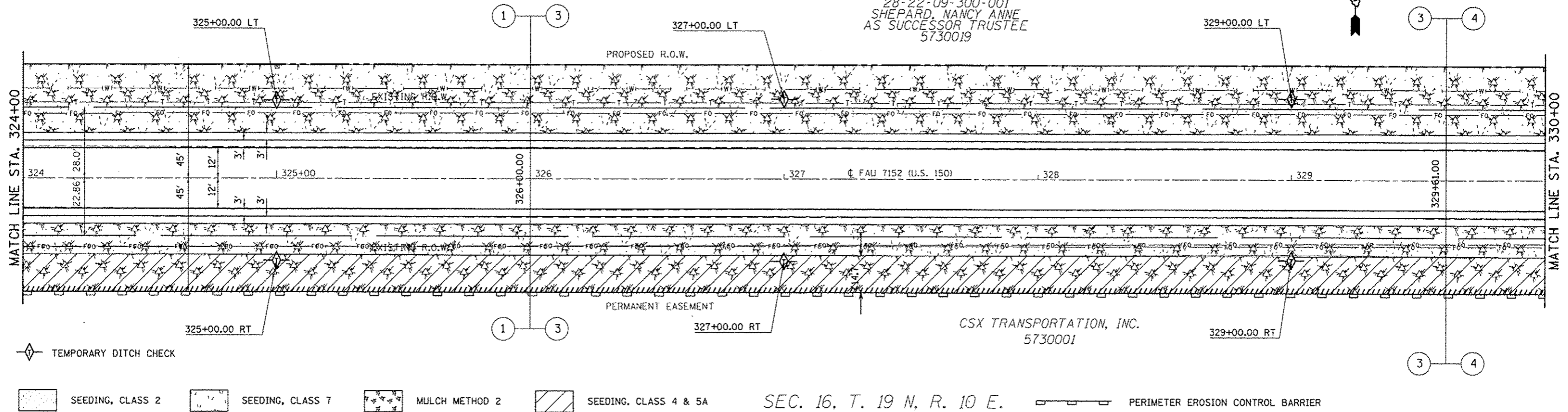
SEC. 16, T. 19 N, R. 10 E.

FILE NAME	USER NAME	DESIGNED	REVISED	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EROSION CONTROL DETAILS US 150 MAINLINE</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN	REVISED			• (2X,3RS-3 & 2RS-4	Champaign	551	162	
		CHECKED	REVISED			• F.A.U. 7152 & F.A.S. 1512			CONTRACT NO. 70663	
		DATE	REVISED			ILLINOIS FED. AID PROJECT				
SCALE: 1:20					SHEET NO. 19 OF 23 SHEETS		STA. 312+00.00 TO STA. 324+00.00			

SEC. 9, T. 19 N, R. 10 E.



28-22-09-300-001  
SHEPARD, NANCY ANNE  
AS SUCCESSOR TRUSTEE  
5730019



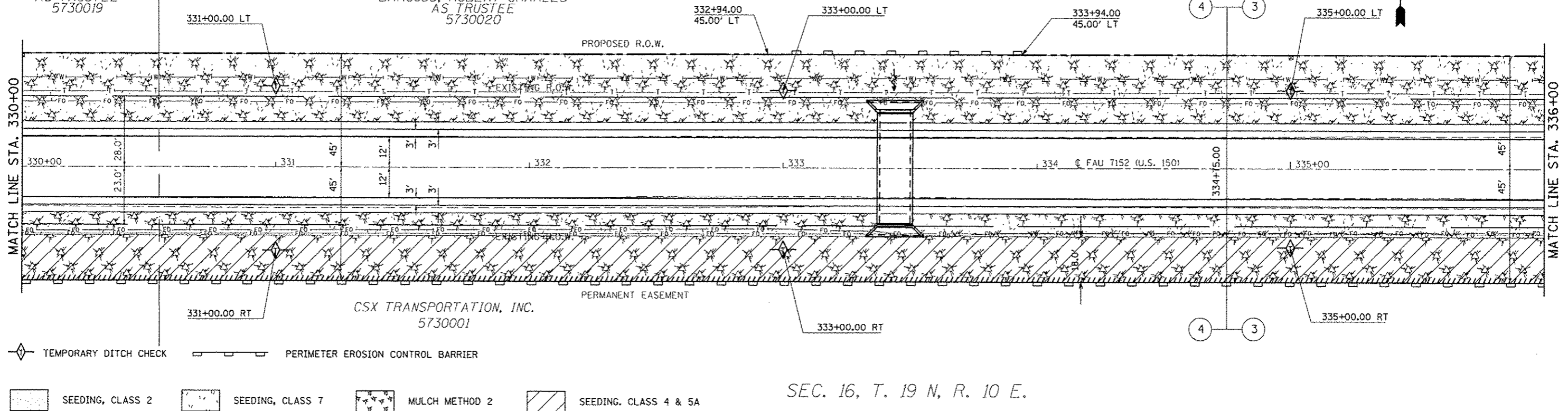
SEC. 16, T. 19 N, R. 10 E.

SEC. 9, T. 19 N, R. 10 E.



28-22-09-300-001  
RUSSELL, RAY JR.  
AS TRUSTEE  
5730019

28-22-09-400-05  
BARCUSS, ROBERT CHARLES  
AS TRUSTEE  
5730020



SEC. 16, T. 19 N, R. 10 E.

FILE NAME =	USER NAME = cealockjd	DESIGNED -	REVISED -
c:\pwwork\pwwork\cealockjd\2012\316\0578663-sh1-erosioncontrol.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

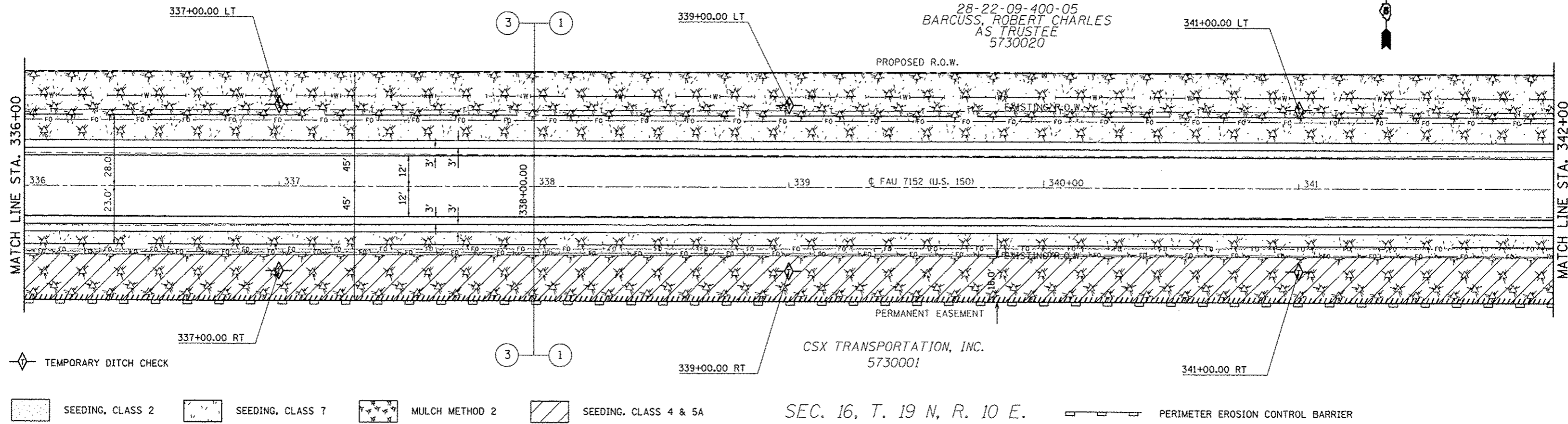
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DETAILS  
US 150 MAINLINE

SCALE: 1:20 SHEET NO. 20 OF 23 SHEETS STA. 324+00.00 TO STA. 336+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
• F.A.U. 7152 & F.A.S. 1512	(2X,3RS-3 & 2RS-4)	Champaign	551	163
ILLINOIS FED. AID PROJECT				

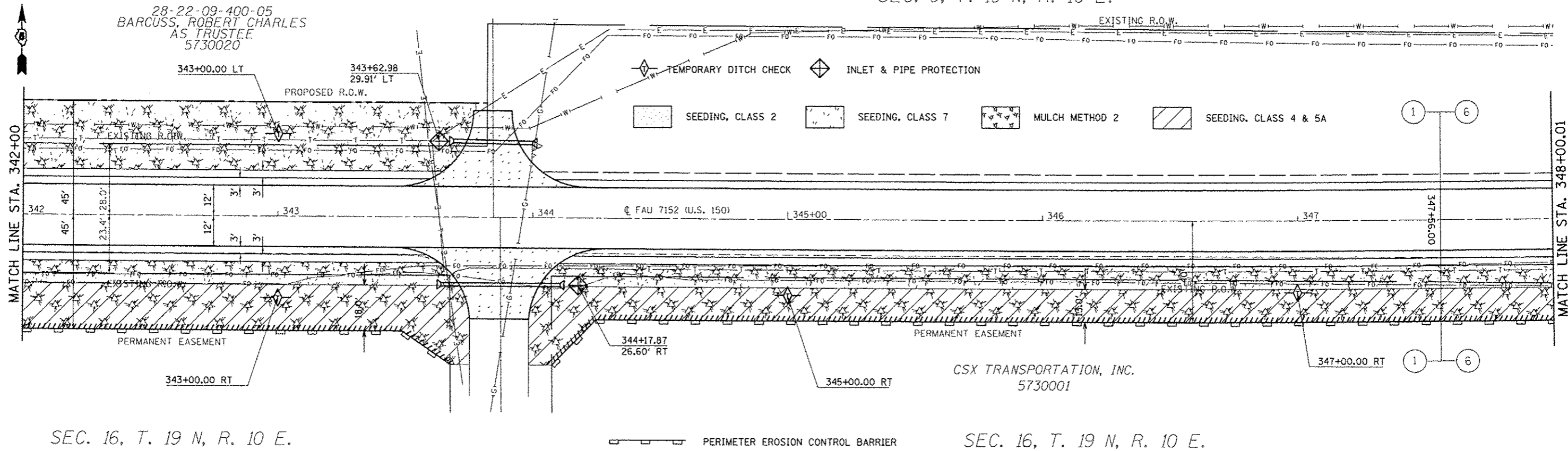
SEC. 9, T. 19 N, R. 10 E.



SEC. 16, T. 19 N, R. 10 E.

SEC. 9, T. 19 N, R. 10 E.

SEC. 9, T. 19 N, R. 10 E.



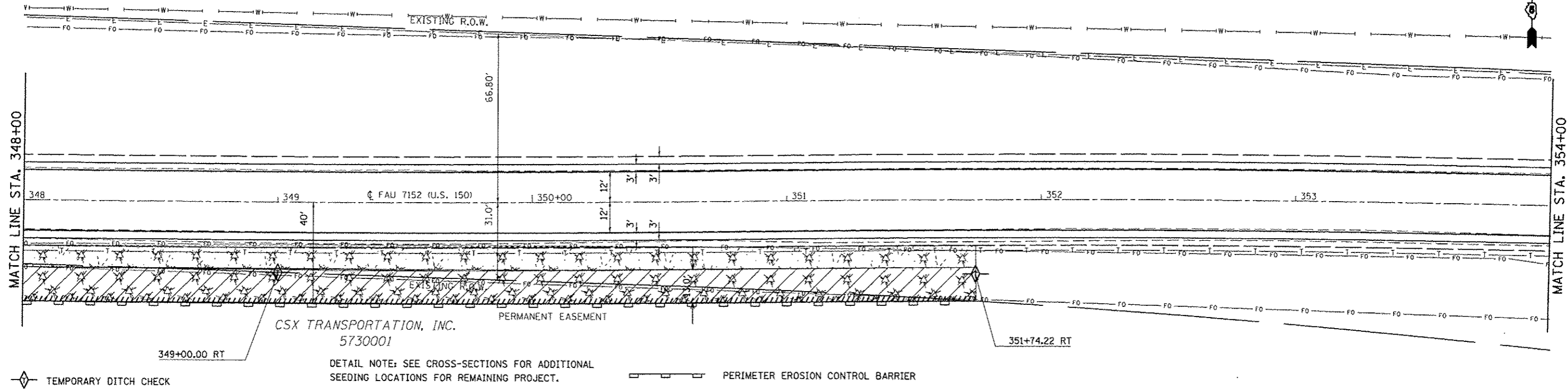
SEC. 16, T. 19 N, R. 10 E.

SEC. 16, T. 19 N, R. 10 E.

FILE NAME : c:\pwwork\p\dost\ceer\lock_jd\012016\DS	USER NAME : ceer\lock_jd	DESIGNED - DRAWN -	REVISED - REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EROSION CONTROL DETAILS US 150 MAINLINE</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
		CHECKED -	REVISED -		SCALE: 1:20	SHEET NO. 21 OF 23 SHEETS	STA. 336+00.00 TO STA. 348+00.01	• (2X,3)RS-3 & 2RS-4	Champaign	551	164
		DATE -	REVISED -					• F.A.U. 7152 & F.A.S. 1512			
								CONTRACT NO. 70663 ILLINOIS FED. AID PROJECT			



SEC. 9, T. 19 N, R. 10 E.

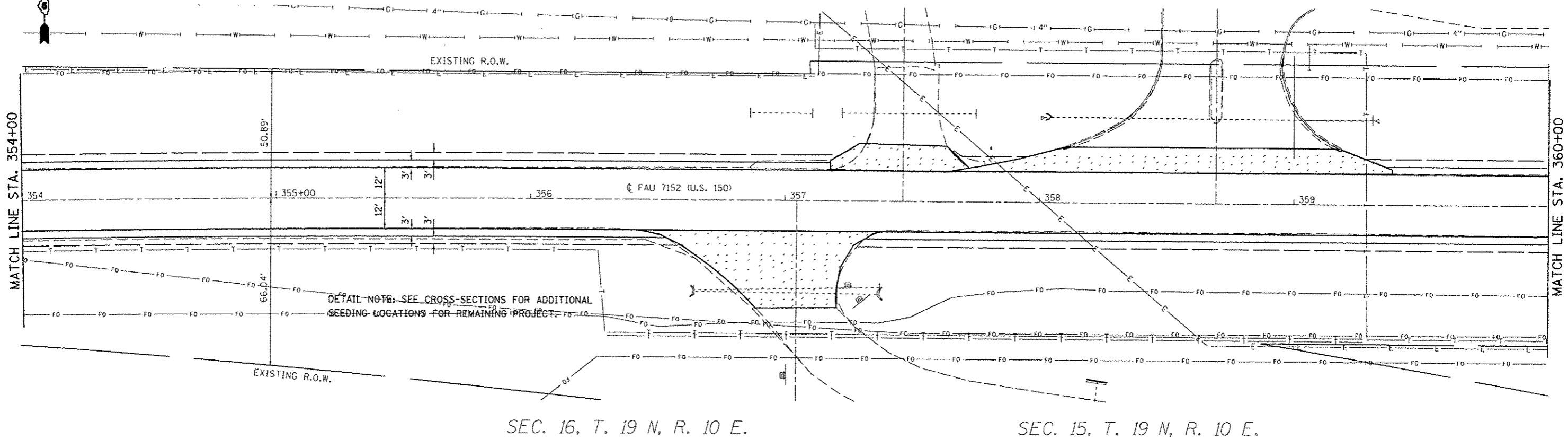


- SEEDING, CLASS 2
- SEEDING, CLASS 7
- MULCH METHOD 2
- SEEDING, CLASS 4 & 5A

SEC. 16, T. 19 N, R. 10 E.

SEC. 9, T. 19 N, R. 10 E.

SEC. 10, T. 19 N, R. 10 E.



SEC. 16, T. 19 N, R. 10 E.

SEC. 15, T. 19 N, R. 10 E.

FILE NAME :	USER NAME : ceerlock_jd	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EROSION CONTROL DETAILS US 150 MAINLINE</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0:\pwork\pwork\ceerlock_jd\0128316\DS78663-ehc-erosioncontrol.dgn		DRAWN -	REVISED -			•	(2X,3RS-3 & 2RS-4	Champaign	551	165
		CHECKED -	REVISED -			•	F.A.U. 7152 & F.A.S. 1512			CONTRACT NO. 70663
		DATE -	REVISED -							ILLINOIS FED. AID PROJECT
						SCALE: 1:20	SHEET NO. 22 OF 23 SHEETS	STA. 348+00.01 TO STA. 360+00.00		

SEC. 18, T. 19 N, R. 10 E.

CSX TRANSPORTATION, INC.  
5730001 & 5730025

TR 1900 E BEGINS  
STATION 298+59.43

PERIMETER EROSION CONTROL BARRIER

EXISTING R.O.W.

298+49.91 LT

298+49.61 RT

EXISTING R.O.W.

TEMPORARY DITCH CHECK

INLET & PIPE PROTECTION

SEEDING, CLASS 2

SEEDING, CLASS 7

MULCH METHOD 2

SEEDING, CLASS 4 & 5A

SEC. 17, T. 19 N, R. 10 E.

250+80.50 TR 1900 E SOUTH  
300+00.00 US 150

299+04.52  
26.25' LT

28-22-18-200-006  
28-22-17-100-002  
HISSON, RONALD D.  
5730024

SEC. 7, T. 19 N, R. 10 E.

250+78.72 TR 1900 E NORTH  
300+00.00 US 150

28-22-07-476-013  
ORDAL, JOHN

301+50.90 LT

TR 1900 E ENDS  
STATION 301+51.00

28-22-07-476-014  
ORDAL, JORDAN  
5730011

28-22-08-300-012  
KOCH, DAVID A.  
KOCH, REBECCA S.  
5730012

28-22-08-300-012  
KOCH, DAVID A.

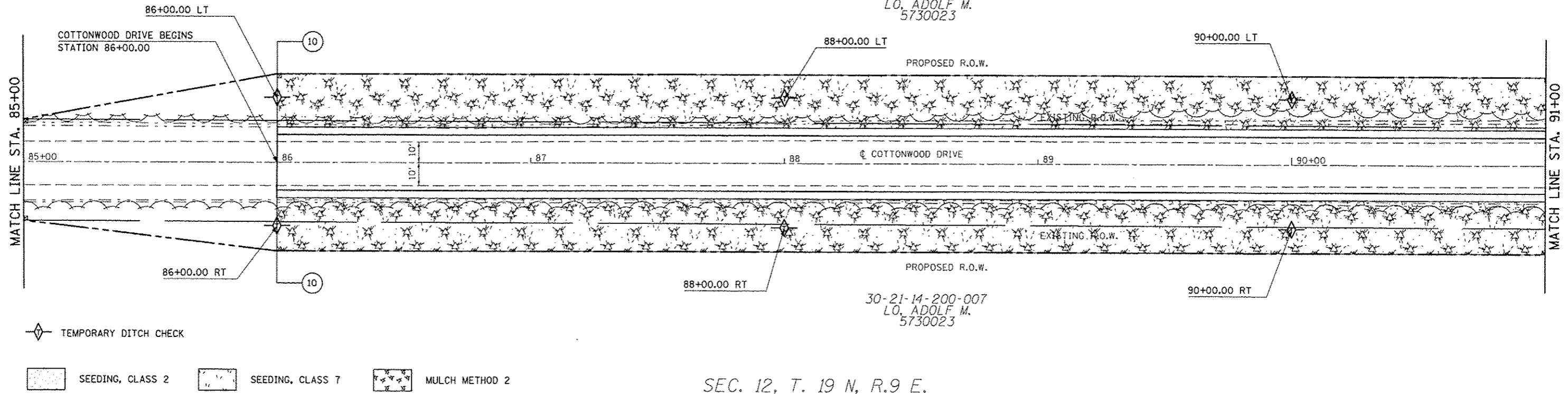
SEC. 8, T. 19 N, R. 10 E.

FILE NAME : c:\pwwork\pwwork\pwwork\ceerlock\j\d8128316\05	USER NAME : ceerlockjd	DESIGNED : -	REVISED : -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EROSION CONTROL DETAILS TR 1900 E</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	70663-eh-erosioncontrol.dgn	DRAWN : -	REVISED : -		SCALE: 1:20	SHEET NO. 23 OF 23 SHEETS	STA. 297+00.00 TO STA. 302+50.00	• F.A.U. 7152 & F.A.S. 1512	(2X,3RS-3 & 2RS-4)	Champaign	551	166
	PLOT SCALE = 48.0000' / 1" =	CHECKED : -	REVISED : -									
	PLOT DATE = 10/18/2013	DATE : -	REVISED : -									
ILLINOIS FED. AID PROJECT												



SEC. 14, T. 19 N, R. 9 E.

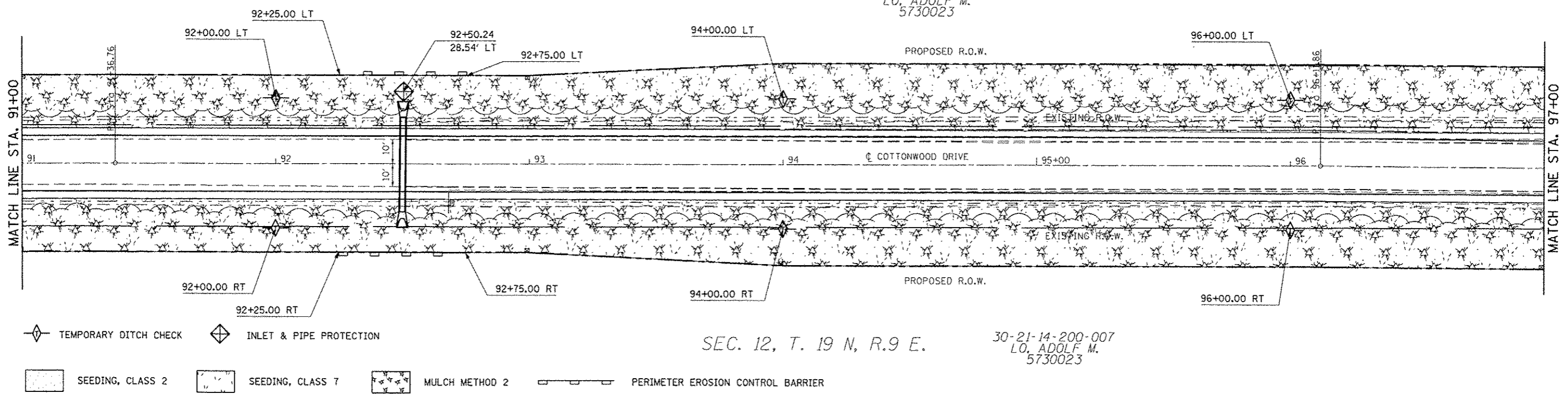
30-21-14-200-004  
LO. ADOLF M.  
5730023



SEC. 12, T. 19 N, R.9 E.

SEC. 14, T. 19 N, R. 9 E.

30-21-14-200-004  
LO. ADOLF M.  
5730023



SEC. 12, T. 19 N, R.9 E.

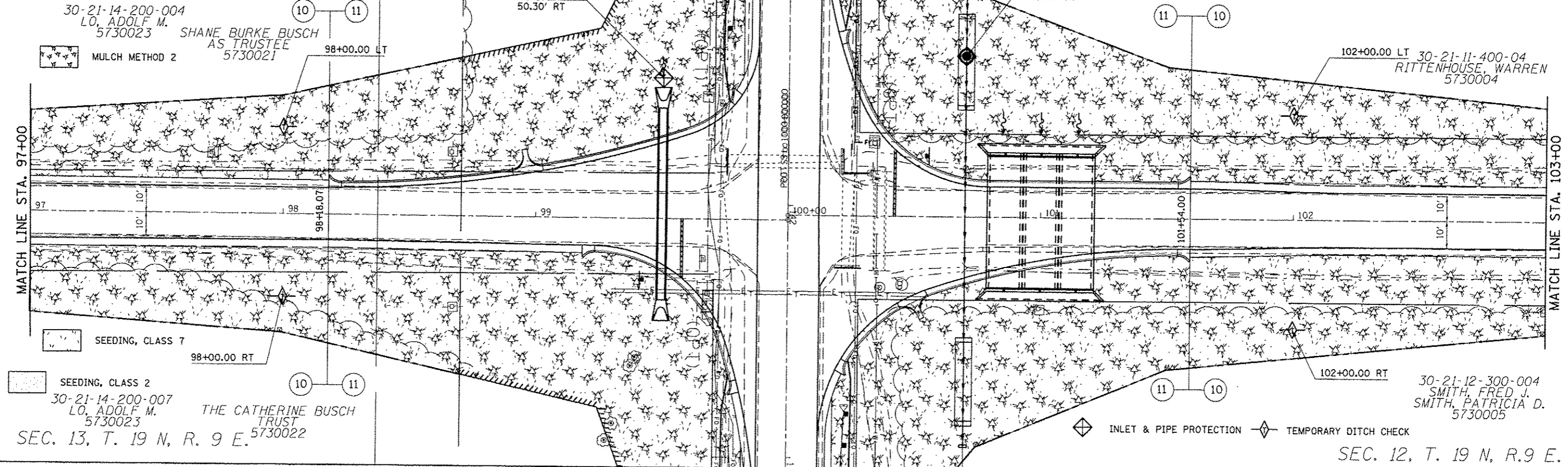
30-21-14-200-007  
LO. ADOLF M.  
5730023

FILE NAME: c:\pwwork\pwwido\cconrlook\48120316\0278663-shr\erasioncontr\o1.dgn	USER NAME: cconrlook_jd	DESIGNED: -	REVISED: -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>EROSION CONTROL DETAILS COTTONWOOD DRIVE</b>		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE: 48.0000' / 1" =	CHECKED: -	REVISED: -	REVISED: -		SCALE: 1:20	SHEET NO. 1 OF 2 SHEETS	STA. 85+00.00 TO STA. 97+00.00	* F.A.U. 7152 & F.A.S. 1512	Champaign	551	167
PLOT DATE: 10/10/2013	DATE: -	REVISED: -	REVISED: -		CONTRACT NO. 70663						
ILLINOIS FED. AID PROJECT											



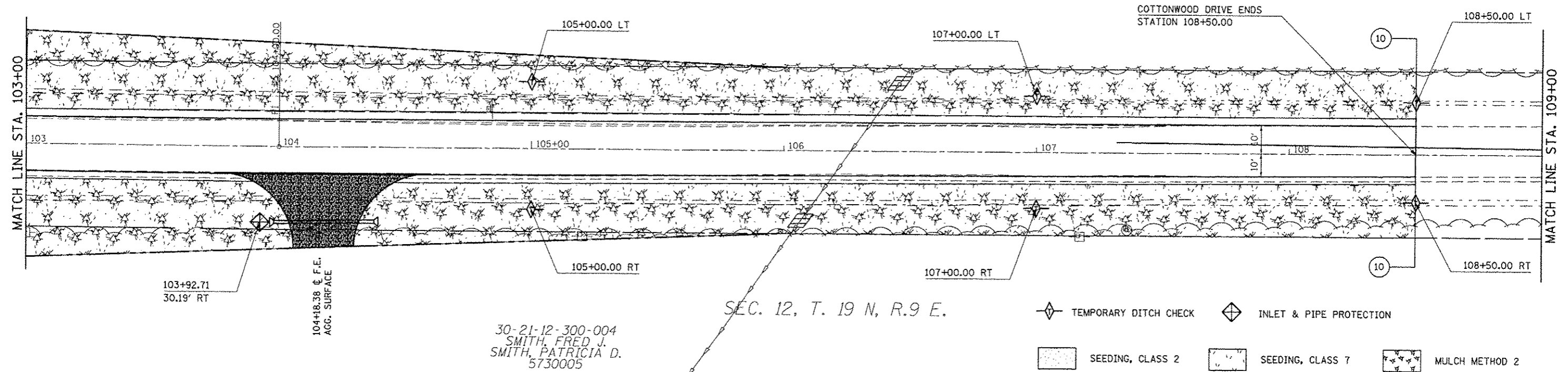
SEC. 14, T. 19 N, R. 9 E.

SEC. 11, T. 19 N, R. 9 E.



SEC. 12, T. 19 N, R. 9 E.

30-21-11-400-04  
RITTENHOUSE, WARREN  
5730004



FILE NAME	USER NAME = eorlockjd	DESIGNED -	REVISED -
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PLOT SCALE = 48.0000' / in.		CHECKED -	REVISED -
PLOT DATE = 10/10/2013		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DETAILS  
COTTONWOOD DRIVE

SCALE: 1:20 SHEET NO. 2 OF 2 SHEETS STA. 97+00.00 TO STA. 109+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(2X,3)RS-3 & 2RS-4	Champaign	551	168
*	F.A.U. 7152 & F.A.S. 1512			CONTRACT NO. 70663

ILLINOIS FED. AID PROJECT

SCHEDULE OF A. R. BOX CULVERTS

STATION	CULVERT NUMBER	PROP STRUCT NUMBER	20700220 POROUS GRAN EMB CU YD	28100101 STONE RIPRAP CLASS A1 SQ YD	51500100 NAME PLATES EACH	BOX CULVERT END SECTION EACH	54020302 PCC BOX CULVERT 3x2 FOOT	54020704 PCC BOX CULVERT 7x4 FOOT	54010802 PCC BOX CULVERT 8x2 FOOT	54011202 PCC BOX CULVERT 12x2 FOOT	54011203 PCC BOX CULVERT 12x3 FOOT	54021204 PCC BOX CULVERT 12X4 FOOT	Z0038700 PERM BENCH MARKS EACH
URBAN													
125+72.00	1	010-8156	45.7	128.2	1.0	2.0						41.0	1.0
140+00.00	2	010-8157	41.2	128.2	1.0	2.0						41.0	1.0
COTTONWOOD DR. 100+78.75	4	010-2039	46.9	353.4	1.0	2.0					156.0		1.0
RURAL													
143+00.00	3	010-8158	40.2	95.7	1.0	2.0		41.0					1.0
158+00.00	5	010-8159	52.1	102.3	1.0	2.0			45.0				1.0
184+90.00	6	N/A	18.5	54.9		2.0	38.0						1.0
219+96.00	7	N/A	18.2			2.0	38.0						
286+30.00	8	010-8160	20.6	96.1	1.0	2.0			39.0				1.0
289+00.00	9	010-8161	37.3	96.1	1.0	2.0			40.5				1.0
316+00.00	10	010-8162	17.9	129.1	1.0	2.0				40.5			1.0
322+05.00	11	010-8163	21.6		1.0	2.0				41.0			1.0
333+44.00	12	010-8164	32.1	129.1	1.0	2.0				41.0			1.0
TOTAL =			392.3	1313.1	10.0	24.0	76.0	41.0	124.5	122.5	156.0	82.0	10.0
USE =			392.0	1314.0	10.0	24.0	76.0	41.0	124.5	122.5	156.0	82.0	10.0

SCHEDULE OF A. R. CULVERT PATCHING

STATION	CULVERT NUMBER	44201747 CLASS D PATCH T IV 8" SQ YD	Z0037200 PAVEMENT GRINDING SQ YD
URBAN			
125+72.00	1	48.0	48.0
140+00.00	2	48.0	48.0
RURAL			
143+00.00	3	33.0	33.0
158+00.00	5	36.0	36.0
184+90.00	6	20.5	
209+91.04	-	16.0	
219+96.00	7	20.5	
286+30.00	8	36.0	
289+00.00	9	36.0	
316+00.00	10	48.0	
322+05.00	11	48.0	
333+44.00	12	48.0	
TOTAL =		438.0	165.0

48101200 AGGREGATE SHOULDERS, TYPE B

STATION	TO	STATION	LENGTH	WIDTH	THICKNESS INCHES	TONS
URBAN						
LT 125+22.00		LT 126+22.00	100.0	3.0	2.0	40.0
RT 125+22.00		RT 126+22.00	100.0	3.0	2.0	40.0
LT 139+50.00		LT 140+50.00	100.0	3.0	2.0	40.0
RT 139+50.00		RT 140+50.00	100.0	3.0	2.0	40.0
RURAL						
LT 143+50.00		LT 144+50.00	100.0	3.0	2.0	40.0
RT 143+50.00		RT 144+50.00	100.0	3.0	2.0	40.0
LT 157+50.00		LT 158+50.00	100.0	3.0	2.0	40.0
RT 157+50.00		RT 158+50.00	100.0	3.0	2.0	40.0
RT 219+46.70		RT 220+46.70	100.0	3.0	2.0	40.0
LT 184+39.41		LT 185+39.41	100.0	6.0	2.0	80.0
LT 209+44.00		LT 210+44.00	100.0	6.0	2.0	80.0
RT 219+46.70		RT 220+46.70	100.0	6.0	2.0	80.0
LT 285+79.94		LT 286+79.94	100.0	6.0	2.0	80.0
LT 288+49.94		LT 289+49.94	100.0	6.0	2.0	80.0
RT 315+50.00		RT 316+50.00	100.0	6.0	2.0	80.0
RT 321+54.96		RT 322+54.96	100.0	6.0	2.0	80.0
RT 332+93.96		RT 333+93.96	100.0	6.0	2.0	80.0

TOTAL = 1000.0





Benchmark: 688.583, Chiseled square on top of South headwall of existing structure

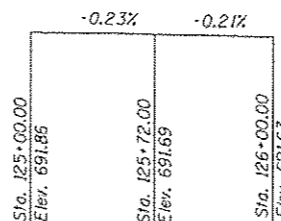
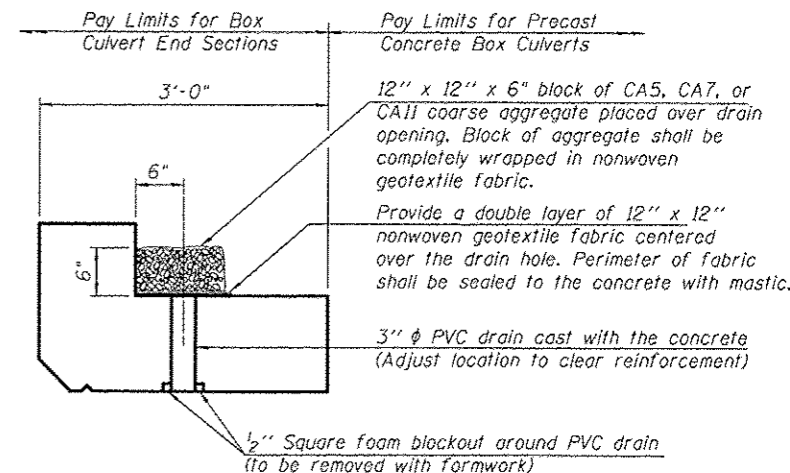
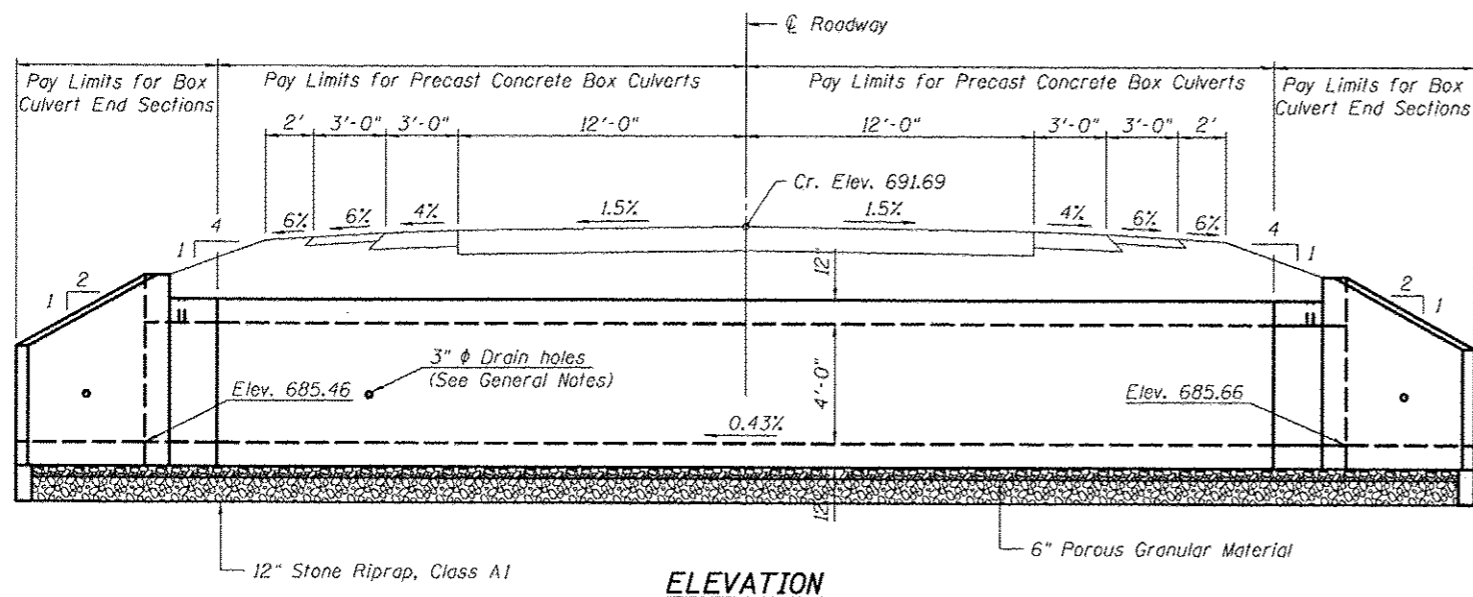
Existing Structure: Sta. 126+23.50, 3'x2' cast-in-place box culvert with concrete headwalls to be capped and filled with CLSM

**INDEX OF SHEETS**

1. Plan & Profile Sheet
2. General Plan and Elevation
- 3-4. Precast Concrete Box Culvert Apron End Section Details
5. Porous Granular Embankment Details

**GENERAL NOTES**

The design fill height for this box is < 2 feet. The precast box culvert sections shall conform to the requirements of AASHTO C 1577.  
 Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specification.  
 The 6 in. thick layer of porous granular material required for the precast concrete box culvert per Art. 540.06 of the Standard Specifications shall also apply to the end sections. Cost of the porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.  
 Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.  
 All exposed edges shall be chamfered 3/4" per article 503.06 of the Standard Specifications.



**DRAIN DETAIL**  
 (All costs associated with furnishing and constructing the above drain details will not be measured for payment but shall be included in the contract unit price for the end section.)

**DESIGN SPECIFICATIONS**

2012 AASHTO LRFD Bridge Design Specifications  
 6th Edition

**LOADING HL-93**

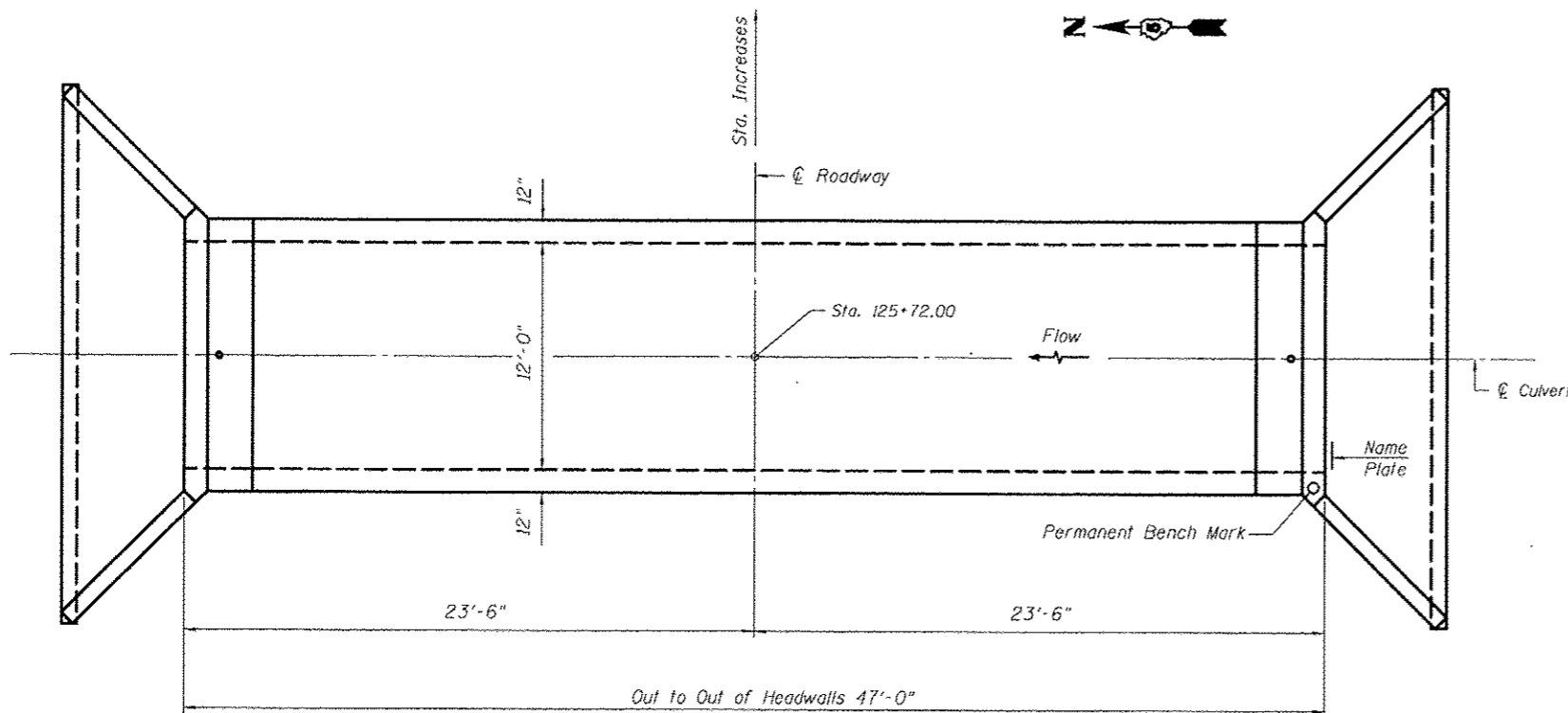
**DESIGN STRESSES**

**PRECAST UNITS**

f'c = 5,000 psi  
 fy = 65,000 psi (Welded Wire Fabric)

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Name Plates	Each	1.0
Box Culvert End Sections, Culvert No. 1	Each	2.0
Precast Concrete Box Culverts, 12x4	Foot	39.0
Permanent Bench Marks	Each	1.0
Stone Riprap, Class A1	Sq. Yd.	128.2
Porous Granular Embankment	Cu. Yd.	45.7



**WATERWAY INFORMATION**

Drainage Area = 1.4 sq. mi. Low Grade Elev. 689.90 @ Sta. 142+00.00

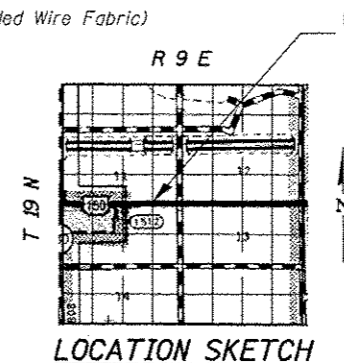
Flood	Freq.	Q	Opening Sq. Ft.		Nat. H.W.E.		Head - Ft.		Headwater El.	
	Yr.	C.F.S.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	10	61	6	37	688.5	N/A	0.1	over	688.6	
Base	50	231	6	44	689.1	N/A	0.7	over	689.8	
Overflopping	100	293	6	46	689.3	N/A	0.7	over	690.1	
	55	239	6	45	689.2	N/A	0.7	over	689.9	

**DESIGN SCOUR ELEVATION TABLE**

Design Scour Elevation (ft.)	Upstream	Downstream
	682.66	682.46

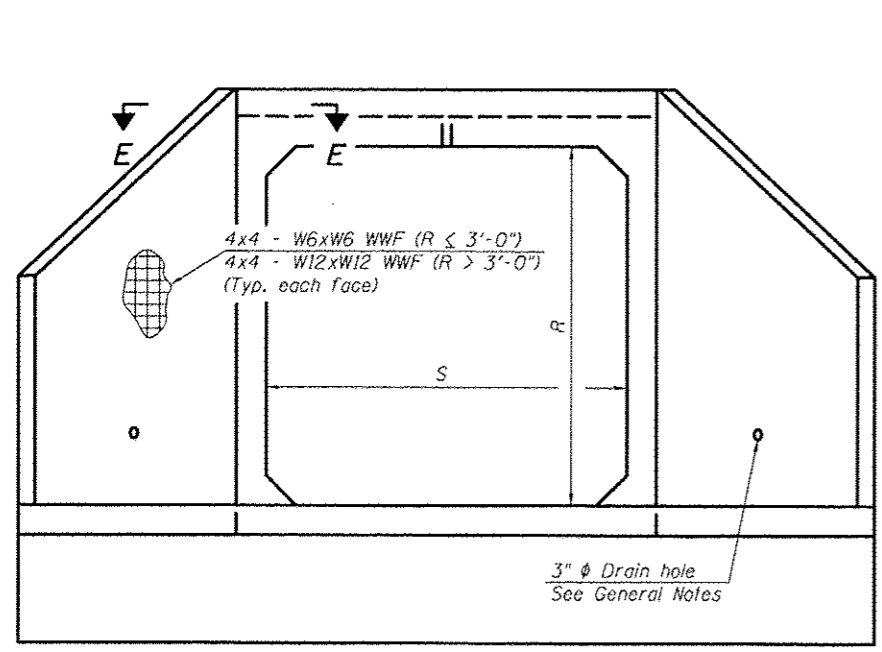
STATION 125+72.00  
 BUILT 2014 BY  
 STATE OF ILLINOIS  
 F.A.U. RT. 7152 US 150  
 SEC. (2X,3)RS-3 & 2RS-4  
 LOADING HL-93  
 STR. NO. 010-8156

**NAME PLATE**  
 See Std. 515001

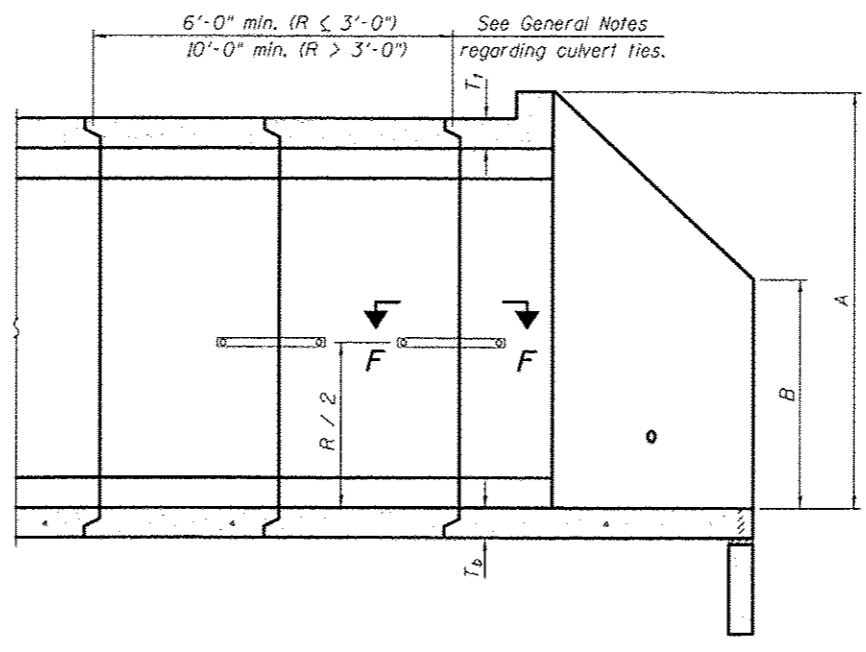


PROP. S.N. 010-8156  
 STA. 125+72.00

**GENERAL PLAN AND ELEVATION**  
**SINGLE 12'x4' PRECAST BOX CULVERT**  
**F.A.U. ROUTE 7152 (US 150)**  
**SECTION (2X,3)RS-3 & 2RS-4**  
**CHAMPAIGN COUNTY**  
**STATION 125+72.00, S.N. 010-8156**  
**CULVERT NO. 1**



**END VIEW**



**SECTION A-A**

**GENERAL NOTES**

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections.

The Contractor may furnish the end section as a single precast concrete piece or construct the end section in the field using cast-in-place (CIP) construction. For CIP construction, the bottom slab thickness shall be increased by 2" and the clear cover to the bottom mat of reinforcement shall be increased to 3".

Box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements for ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

The number of culvert ties shall be sufficient to engage the minimum length of culvert barrel shown within the pay limits for Precast Concrete Box Culverts and will be dependent upon the length of box culvert segments furnished by the Contractor. Culvert ties are not required for box culverts having a rise (R) less than or equal to 3 ft and a span (S) greater than or equal to 10 ft.

All costs associated with furnishing and installing or constructing the toewall and culvert ties will not be measured for payment but shall be included in the unit price for Box Culvert End Sections of the culvert number specified.

Shop drawings that detail slab thickness and reinforcement layout for the Box Culvert End Sections shall be provided to the Engineer for review and approval. Reinforcement bars not detailed herein shall be detailed with a clear distance at the end of the reinforcement not less than 1/2" nor more than 2". For the precast option, it shall be the Contractor's responsibility for determining a method of handling and a construction procedure shall be included on the shop drawings. The Contractor shall determine and detail in the shop drawings any necessary strengthening or stiffening provisions necessary to handle the precast segment. Any required modifications shall be at no extra charge.

The Contractor may use reinforcement bars in lieu of welded wire fabric (WWF). Reinforcement bars shall be limited to the sizes of #3 through #5 bars, a maximum spacing of the lesser of 8" or the member thickness, and shall result in area of reinforcement equal to or greater than that provided by the WWF. Minimum lap lengths detailed herein are applicable to WWF and reinforcement bars.

Reinforcement (circumferential and longitudinal) in the culvert barrel portion of the end section shall not be less than that required by ASTM C 1577 for the design fill height or the reinforcement detailed for the end section, whichever is greater.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. Reinforcement bars designated (E) shall be epoxy coated.

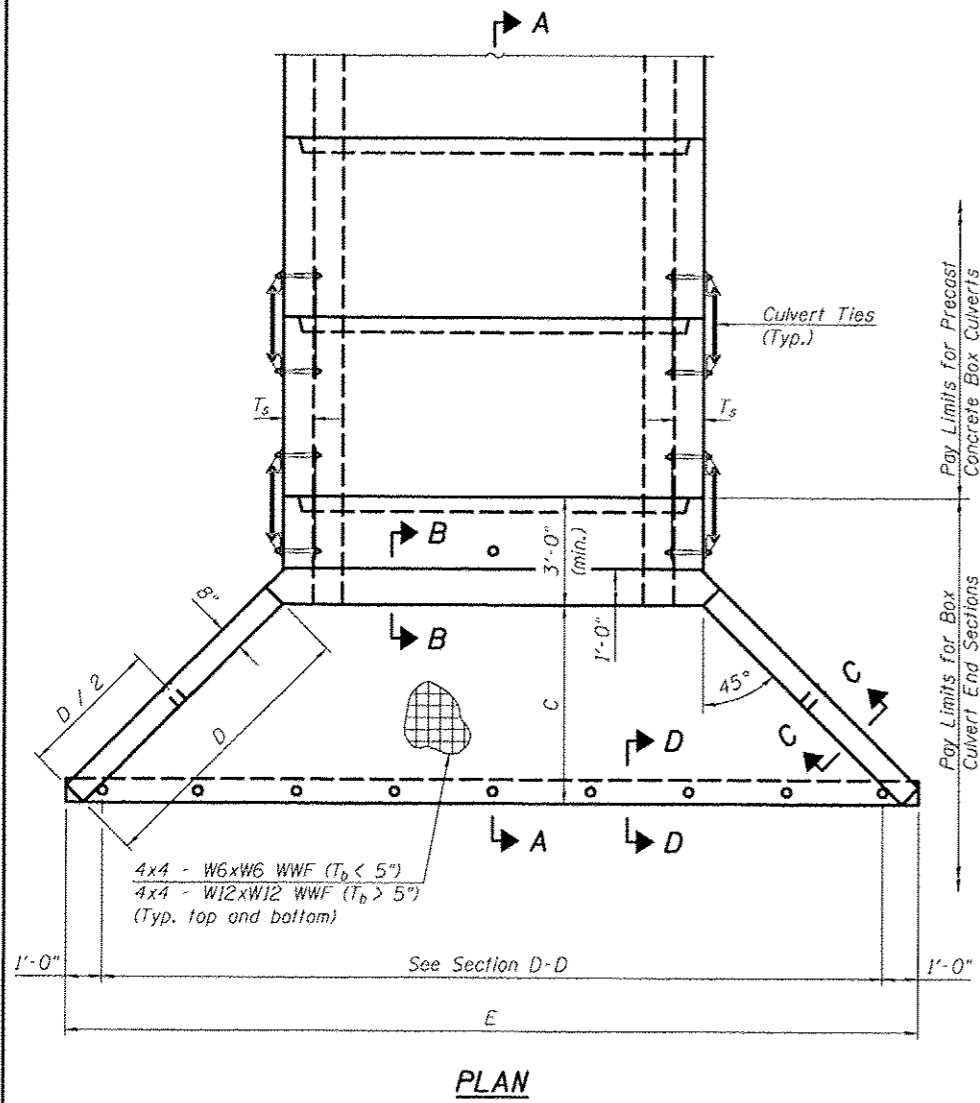
Bonded construction joints shall be prepared according to Article 503.09 of the Standard Specifications.

One drain hole shall be provided in each wingwall for end sections of box culverts having an opening with a clear rise greater than 3 ft. The drain hole shall be located within the lower 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.

**APRON END SECTION DIMENSIONS**

Span (S)	Rise (R)	T <sub>1</sub>	T <sub>b</sub>	T <sub>s</sub>	A	B	C	D	E	Concrete Cu. Yd.	Culvert Ties Required
3'-0"	2'-0"	7"	6"	4"	3'-4"	2'-2"	2'-10 <sup>5</sup> / <sub>8</sub> "	4'-1"	10'-4 <sup>5</sup> / <sub>8</sub> "	2.8	Yes
3'-0"	2'-0"	4"	4"	4"	3'-1"	2'-1"	2'-7 <sup>7</sup> / <sub>8</sub> "	3'-9"	9'-11"	2.3	Yes
3'-0"	3'-0"	7"	6"	4"	4'-4"	2'-8"	3'-10 <sup>5</sup> / <sub>8</sub> "	5'-6"	12'-4 <sup>5</sup> / <sub>8</sub> "	3.7	Yes
3'-0"	3'-0"	4"	4"	4"	4'-1"	2'-7"	3'-7 <sup>7</sup> / <sub>8</sub> "	5'-2"	11'-11"	3.1	Yes
4'-0"	2'-0"	7.5"	6"	5"	3'-4 <sup>1</sup> / <sub>2</sub> "	2'-2 <sup>1</sup> / <sub>2</sub> "	2'-11 <sup>3</sup> / <sub>8</sub> "	4'-2"	11'-8"	3.3	Yes
4'-0"	2'-0"	5"	5"	5"	3'-2"	2'-1"	2'-8 <sup>1</sup> / <sub>2</sub> "	3'-10"	11'-2 <sup>3</sup> / <sub>8</sub> "	2.8	Yes
4'-0"	3'-0"	7.5"	6"	5"	4'-4 <sup>1</sup> / <sub>2</sub> "	2'-8 <sup>1</sup> / <sub>2</sub> "	3'-11 <sup>3</sup> / <sub>8</sub> "	5'-7"	13'-8 <sup>1</sup> / <sub>8</sub> "	4.2	Yes
4'-0"	3'-0"	5"	5"	5"	4'-2"	2'-7"	3'-8 <sup>1</sup> / <sub>2</sub> "	5'-3"	13'-2 <sup>3</sup> / <sub>8</sub> "	3.7	Yes
4'-0"	4'-0"	7.5"	6"	5"	5'-4 <sup>1</sup> / <sub>2</sub> "	3'-2 <sup>1</sup> / <sub>2</sub> "	4'-11 <sup>3</sup> / <sub>8</sub> "	7'-0"	15'-8 <sup>1</sup> / <sub>8</sub> "	5.3	Yes
4'-0"	4'-0"	5"	5"	5"	5'-2"	3'-1"	4'-8 <sup>5</sup> / <sub>8</sub> "	6'-8"	15'-2 <sup>1</sup> / <sub>2</sub> "	4.7	Yes
5'-0"	2'-0"	8"	7"	6"	3'-5"	2'-3"	2'-11 <sup>3</sup> / <sub>8</sub> "	4'-2"	12'-10"	3.9	Yes
5'-0"	2'-0"	6"	6"	6"	3'-3"	2'-2"	2'-10"	4'-0"	12'-7 <sup>1</sup> / <sub>4</sub> "	3.5	Yes
5'-0"	3'-0"	8"	7"	6"	4'-5"	2'-9"	3'-11 <sup>3</sup> / <sub>8</sub> "	5'-7"	14'-10 <sup>1</sup> / <sub>8</sub> "	4.9	Yes
5'-0"	3'-0"	6"	6"	6"	4'-3"	2'-8"	3'-10"	5'-5"	14'-7 <sup>1</sup> / <sub>4</sub> "	4.5	Yes
5'-0"	4'-0"	8"	7"	6"	5'-5"	3'-3"	4'-11 <sup>3</sup> / <sub>8</sub> "	7'-0"	16'-10 <sup>1</sup> / <sub>8</sub> "	6.1	Yes
5'-0"	4'-0"	6"	6"	6"	5'-3"	3'-2"	4'-9 <sup>1</sup> / <sub>4</sub> "	6'-9"	16'-5 <sup>7</sup> / <sub>8</sub> "	5.5	Yes
5'-0"	5'-0"	8"	7"	6"	6'-5"	3'-9"	5'-11 <sup>3</sup> / <sub>8</sub> "	8'-5"	18'-10 <sup>1</sup> / <sub>8</sub> "	7.4	Yes
5'-0"	5'-0"	6"	6"	6"	6'-3"	3'-8"	5'-9 <sup>1</sup> / <sub>4</sub> "	8'-2"	18'-5 <sup>7</sup> / <sub>8</sub> "	6.8	Yes
6'-0"	2'-0"	8"	7"	7"	3'-5"	2'-3"	2'-11 <sup>3</sup> / <sub>8</sub> "	4'-2"	14'-0"	4.3	Yes
6'-0"	2'-0"	7"	7"	7"	3'-4"	2'-2"	2'-10 <sup>5</sup> / <sub>8</sub> "	4'-1"	13'-10 <sup>5</sup> / <sub>8</sub> "	4.2	Yes
6'-0"	3'-0"	8"	7"	7"	4'-5"	2'-9"	3'-11 <sup>3</sup> / <sub>8</sub> "	5'-7"	16'-0 <sup>1</sup> / <sub>8</sub> "	5.4	Yes
6'-0"	3'-0"	7"	7"	7"	4'-4"	2'-8"	3'-10 <sup>5</sup> / <sub>8</sub> "	5'-6"	15'-10 <sup>5</sup> / <sub>8</sub> "	5.2	Yes
6'-0"	4'-0"	8"	7"	7"	5'-5"	3'-3"	4'-11 <sup>3</sup> / <sub>8</sub> "	7'-0"	18'-0 <sup>1</sup> / <sub>8</sub> "	6.5	Yes
6'-0"	4'-0"	7"	7"	7"	5'-4"	3'-2"	4'-10 <sup>3</sup> / <sub>4</sub> "	6'-11"	17'-10 <sup>3</sup> / <sub>4</sub> "	6.5	Yes
6'-0"	5'-0"	8"	7"	7"	6'-5"	3'-9"	5'-11 <sup>3</sup> / <sub>8</sub> "	8'-5"	20'-0 <sup>1</sup> / <sub>8</sub> "	8.0	Yes
6'-0"	5'-0"	7"	7"	7"	6'-4"	3'-8"	5'-10 <sup>3</sup> / <sub>4</sub> "	8'-4"	19'-10 <sup>3</sup> / <sub>4</sub> "	7.8	Yes
6'-0"	6'-0"	8"	7"	7"	7'-5"	4'-3"	6'-11 <sup>1</sup> / <sub>2</sub> "	9'-10"	22'-0 <sup>1</sup> / <sub>4</sub> "	9.5	Yes
6'-0"	6'-0"	7"	7"	7"	7'-4"	4'-2"	6'-10 <sup>3</sup> / <sub>4</sub> "	9'-9"	21'-10 <sup>3</sup> / <sub>4</sub> "	9.3	Yes
7'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 <sup>3</sup> / <sub>8</sub> "	7'-0"	19'-2 <sup>1</sup> / <sub>8</sub> "	7.4	Yes
7'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 <sup>3</sup> / <sub>8</sub> "	8'-5"	21'-2 <sup>1</sup> / <sub>8</sub> "	8.9	Yes
7'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11 <sup>1</sup> / <sub>2</sub> "	9'-10"	23'-2 <sup>1</sup> / <sub>4</sub> "	10.6	Yes
8'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11 <sup>3</sup> / <sub>8</sub> "	4'-2"	16'-2"	5.3	Yes
8'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 <sup>3</sup> / <sub>8</sub> "	5'-7"	18'-2 <sup>1</sup> / <sub>8</sub> "	6.5	Yes
8'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 <sup>3</sup> / <sub>8</sub> "	7'-0"	20'-2 <sup>1</sup> / <sub>8</sub> "	7.8	Yes
8'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 <sup>3</sup> / <sub>8</sub> "	8'-5"	22'-2 <sup>1</sup> / <sub>8</sub> "	9.3	Yes
8'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11 <sup>1</sup> / <sub>2</sub> "	9'-10"	24'-2 <sup>1</sup> / <sub>4</sub> "	11.0	Yes
9'-0"	5'-0"	9"	9"	9"	6'-6"	3'-9"	6'-0 <sup>7</sup> / <sub>8</sub> "	8'-7"	23'-7"	10.6	Yes
9'-0"	6'-0"	9"	9"	9"	7'-6"	4'-3"	7'-0 <sup>7</sup> / <sub>8</sub> "	9'-11"	25'-5 <sup>5</sup> / <sub>8</sub> "	12.4	Yes
10'-0"	2'-0"	10"	10"	10"	3'-7"	2'-4"	3'-1 <sup>1</sup> / <sub>2</sub> "	4'-5"	18'-10 <sup>1</sup> / <sub>4</sub> "	7.1	No
10'-0"	3'-0"	10"	10"	10"	4'-7"	2'-10"	4'-1 <sup>1</sup> / <sub>2</sub> "	5'-10"	20'-10 <sup>1</sup> / <sub>4</sub> "	8.6	No
10'-0"	5'-0"	10"	10"	10"	6'-7"	3'-10"	6'-1 <sup>1</sup> / <sub>2</sub> "	8'-8"	24'-10 <sup>3</sup> / <sub>8</sub> "	12.0	Yes
10'-0"	6'-0"	10"	10"	10"	7'-7"	4'-4"	7'-1 <sup>1</sup> / <sub>2</sub> "	10'-1"	26'-10 <sup>3</sup> / <sub>8</sub> "	13.9	Yes
11'-0"	4'-0"	11"	11"	11"	5'-8"	3'-4"	5'-2 <sup>1</sup> / <sub>4</sub> "	7'-4"	24'-1 <sup>3</sup> / <sub>4</sub> "	11.5	Yes
11'-0"	6'-0"	11"	11"	11"	7'-8"	4'-4"	7'-2 <sup>1</sup> / <sub>4</sub> "	10'-2"	28'-1 <sup>7</sup> / <sub>8</sub> "	15.5	Yes
12'-0"	2'-0"	12"	12"	12"	3'-9"	2'-5"	3'-3 <sup>5</sup> / <sub>8</sub> "	4'-8"	21'-6 <sup>1</sup> / <sub>2</sub> "	9.3	No
12'-0"	3'-0"	12"	12"	12"	4'-9"	2'-11"	4'-3 <sup>5</sup> / <sub>8</sub> "	6'-1"	23'-6 <sup>1</sup> / <sub>2</sub> "	11.1	No
12'-0"	4'-0"	12"	12"	12"	5'-9"	3'-5"	5'-3 <sup>5</sup> / <sub>8</sub> "	7'-6"	25'-6 <sup>5</sup> / <sub>8</sub> "	13.0	Yes
12'-0"	6'-0"	12"	12"	12"	7'-9"	4'-5"	7'-3 <sup>5</sup> / <sub>8</sub> "	10'-4"	29'-6 <sup>5</sup> / <sub>8</sub> "	17.4	Yes

Note:  
Two sets of apron end section dimensions are shown above for some box culvert sizes due to the top and bottom slabs having different thicknesses per ASTM C 1577 for design fill heights less than 2 ft.



**PLAN**



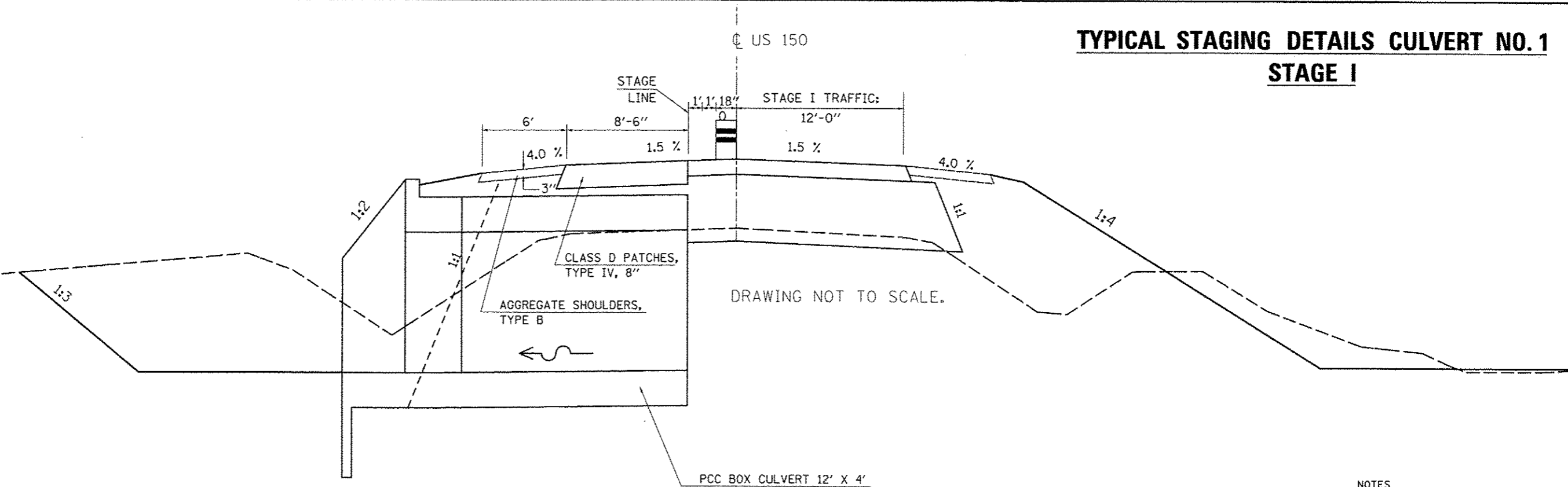




# TYPICAL STAGING DETAILS CULVERT NO. 1 STAGE I

PROPOSED R.O.W.

PERMANENT EASEMENT



PCC BOX CULVERT 12' X 4'

A. R. CULVERT LOCATION	TRAFFIC CONTROL STANDARD	ESTIMATED TIME	CHANGEABLE MESSAGE SIGNS
STA. 125+72.00	701206	1 Day - 24 hrs. - Non-Stop (1) - 12 hr. Day Shift (1) - 12 hr. Night Shift	2 EACH AT 2.0 CAL DAY = 4.0 CAL DAY

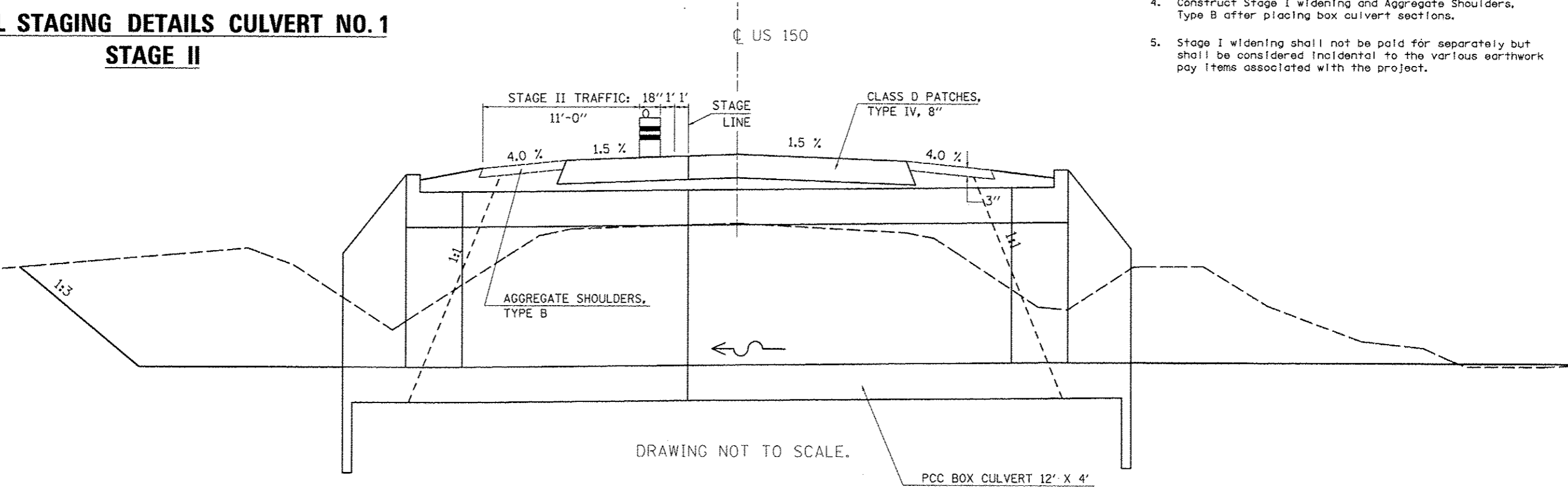
**NOTES**

1. Refer to Special Provisions for TRAFFIC CONTROL AND PROTECTION, STANDARD 701206 and STAGE CONSTRUCTION ACROSS ROAD STRUCTURES for additional information.
2. Construct downstream end of A.R. culvert first.
3. CMS boards shall be placed 3 days in advance prior to work.
4. Construct Stage I widening and Aggregate Shoulders, Type B after placing box culvert sections.
5. Stage I widening shall not be paid for separately but shall be considered incidental to the various earthwork pay items associated with the project.

# TYPICAL STAGING DETAILS CULVERT NO. 1 STAGE II

PROPOSED R.O.W.

PERMANENT EASEMENT



PCC BOX CULVERT 12' X 4'

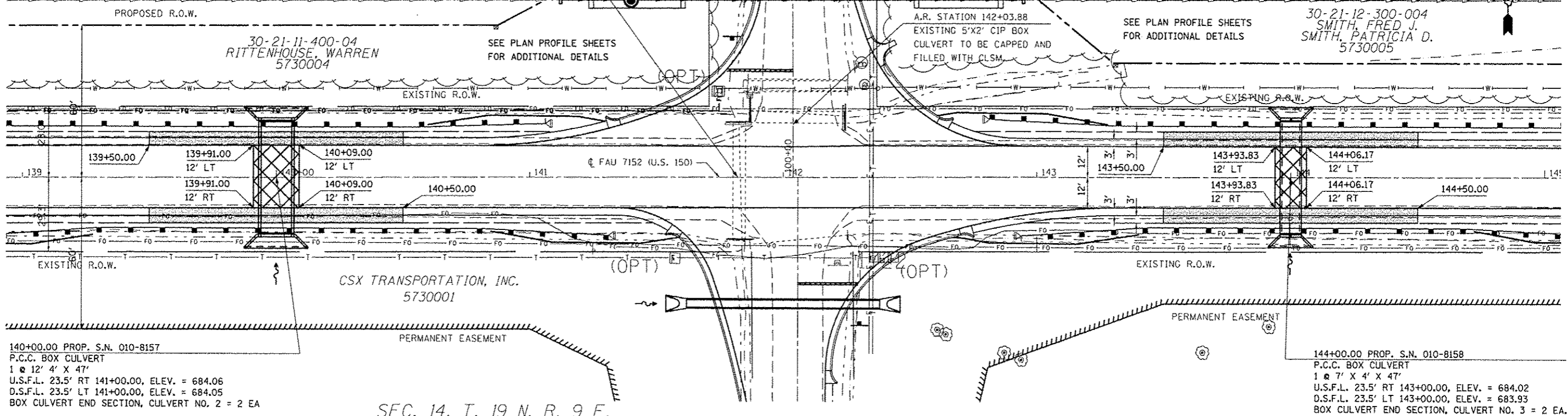
FILE NAME: c:\pwwork\pwwork\csoar-lock\j\0120316\05	USER NAME: csoar-lock_jd	DESIGNED: JMS	REVISED:	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL STAGING DETAIL BOX CULVERT NO. 1</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	70663-shr-structures.dgn	DRAWN: JMS	REVISED:		SCALE: NONE	SHEET NO. 6 OF 6 SHEETS	STA.	TO STA.	• (2X,3RS-3 & 2RS-4	CHAMPAIGN	551	175	
	PLOT SCALE: 4R,2000' / in.	CHECKED:	REVISED:						• F.A.U. 7152 & F.A.S. 1512				
	PLOT DATE: 10/18/2013	DATE: 063011	REVISED:										

SEC. 11, T. 19 N, R. 9 E.

A.R. STATION 141+82.60  
EXISTING 5' X 2' CIP BOX  
CULVERT TO BE CAPPED AND FILLED WITH CLSM

CLASS D PATCH,  
TYPE IV, 8"

AGG WEDGE SHOULDERS,  
TYPE B



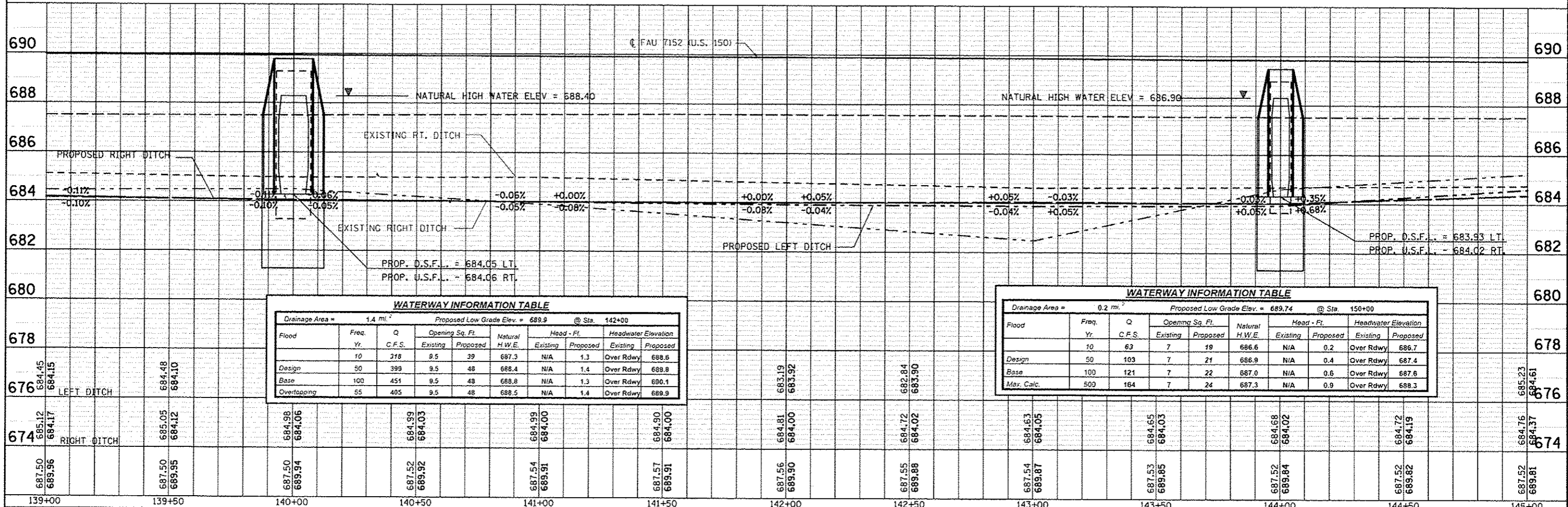
140+00.00 PROP. S.N. 010-8157  
P.C.C. BOX CULVERT  
1 @ 12' 4' X 47'  
U.S.F.L. 23.5' RT 141+00.00, ELEV. = 684.06  
D.S.F.L. 23.5' LT 141+00.00, ELEV. = 684.05  
BOX CULVERT END SECTION, CULVERT NO. 2 = 2 EA

144+00.00 PROP. S.N. 010-8158  
P.C.C. BOX CULVERT  
1 @ 7' X 4' X 47'  
U.S.F.L. 23.5' RT 143+00.00, ELEV. = 684.02  
D.S.F.L. 23.5' LT 143+00.00, ELEV. = 683.93  
BOX CULVERT END SECTION, CULVERT NO. 3 = 2 EA

SEC. 14, T. 19 N, R. 9 E.

PLAN	DATE
REVISED	
ADDED	
DELETED	
BY	
NO.	
NOTE BOOK	
NO.	
DATE	
FILE NAME	

PROFILE	DATE
REVISED	
ADDED	
DELETED	
BY	
NO.	
NOTE BOOK	
NO.	
DATE	
FILE NAME	



**WATERWAY INFORMATION TABLE**

Drainage Area = 1.4 mi.<sup>2</sup> Proposed Low Grade Elev. = 689.9 @ Sta. 142+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Natural H.W.E.	Head - Ft.		Headwater Elevation	
			Existing	Proposed		Existing	Proposed	Existing	Proposed
Design	10	318	9.5	39	687.3	N/A	1.3	Over Rdwy	688.6
Design	50	399	9.5	48	688.4	N/A	1.4	Over Rdwy	689.8
Base	100	451	9.5	48	688.8	N/A	1.3	Over Rdwy	690.1
Overtopping	55	405	9.5	48	688.5	N/A	1.4	Over Rdwy	689.9

**WATERWAY INFORMATION TABLE**

Drainage Area = 0.2 mi.<sup>2</sup> Proposed Low Grade Elev. = 689.74 @ Sta. 145+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Natural H.W.E.	Head - Ft.		Headwater Elevation	
			Existing	Proposed		Existing	Proposed	Existing	Proposed
Design	10	63	7	19	686.6	N/A	0.2	Over Rdwy	686.7
Design	50	103	7	21	686.9	N/A	0.4	Over Rdwy	687.4
Base	100	121	7	22	687.0	N/A	0.6	Over Rdwy	687.6
Max. Calc.	500	164	7	24	687.3	N/A	0.9	Over Rdwy	688.3



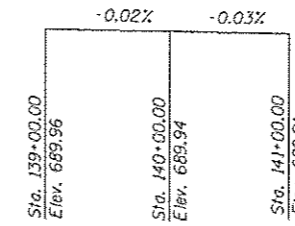
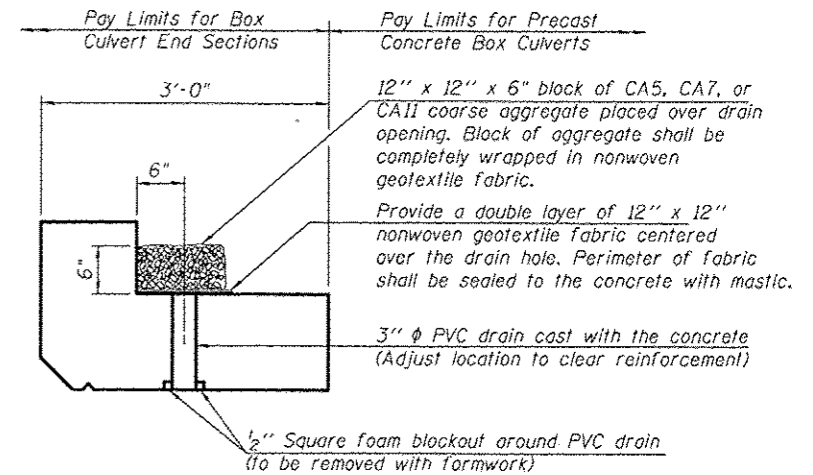
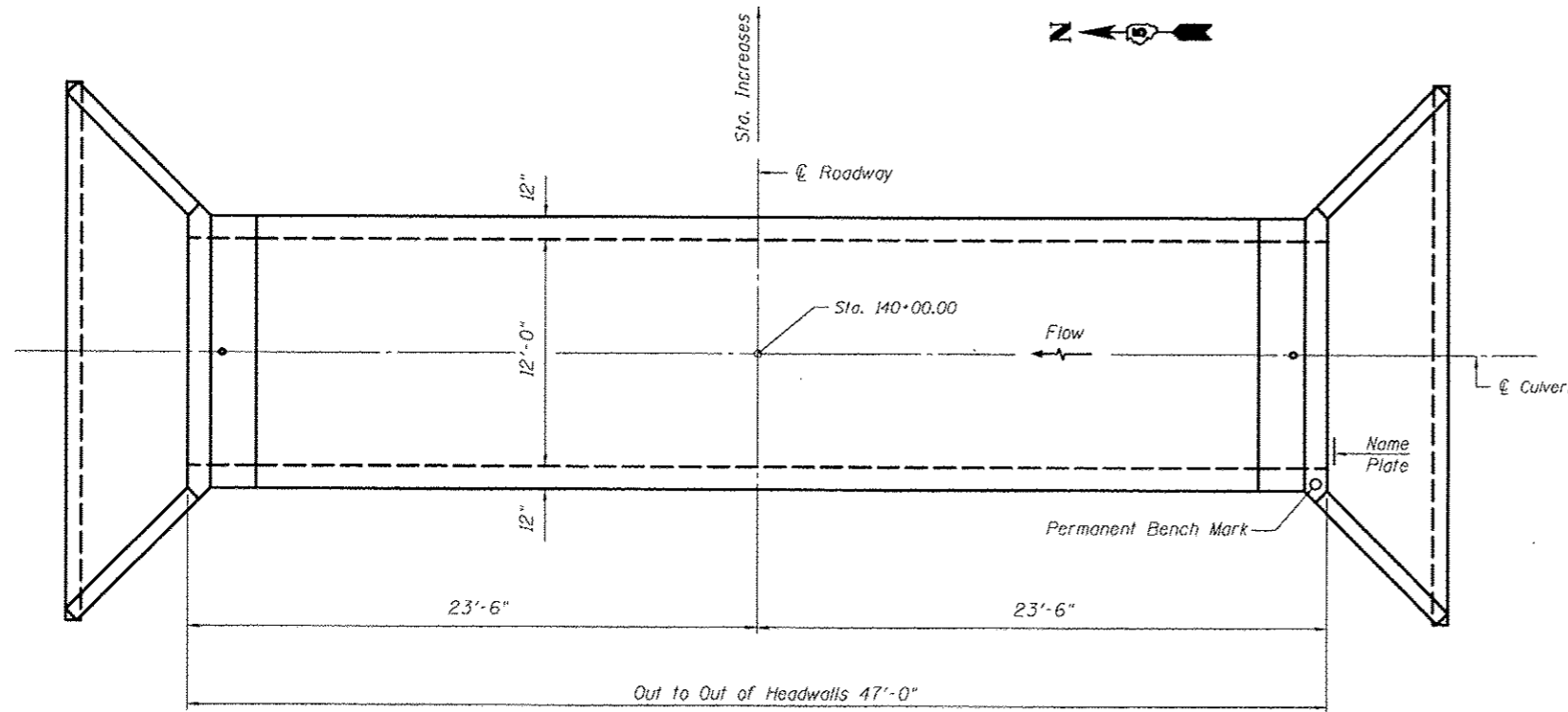
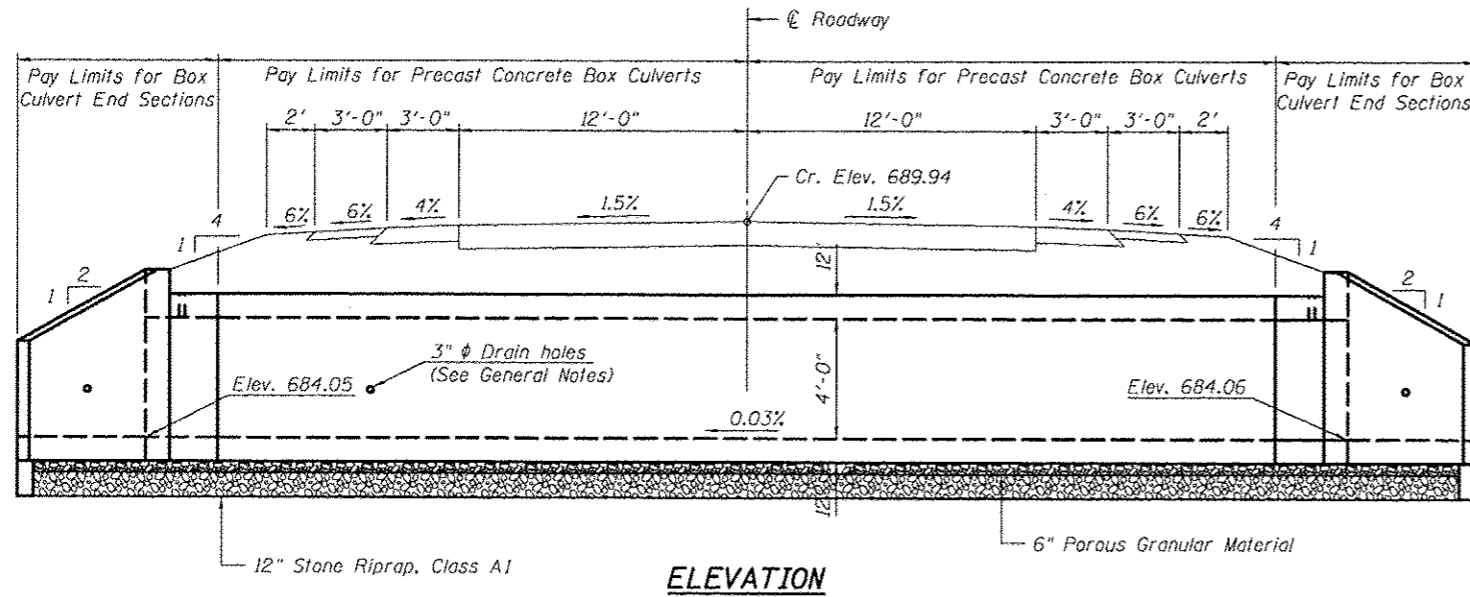
Benchmark: 687.296, Chiseled square on top of headwall of existing structure NE QUAD of Cottonwood Rd.  
 Existing Structure: Sta. 141+82.60, 5'x2' cast-in-place box culvert with concrete headwalls to be capped and filled with CLSM.

**INDEX OF SHEETS**

1. Plan & Profile Sheet
2. General Plan and Elevation
- 3-4. Precast Concrete Box Culvert Apron End Section Details
5. Porous Granular Embankment Details

**GENERAL NOTES**

The design fill height for this box is < 2 feet. The precast box culvert sections shall conform to the requirements of AASHTO C 1577.  
 Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specification.  
 The 6 in. thick layer of porous granular material required for the precast concrete box culvert per Art. 540.06 of the Standard Specifications shall also apply to the end sections. Cost of the porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.  
 Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.  
 All exposed edges shall be chamfered 3/4" per article 503.06 of the Standard Specifications.



**DESIGN SPECIFICATIONS**

2012 AASHTO LRFD Bridge Design Specifications  
 6th Edition

**LOADING HL-93**

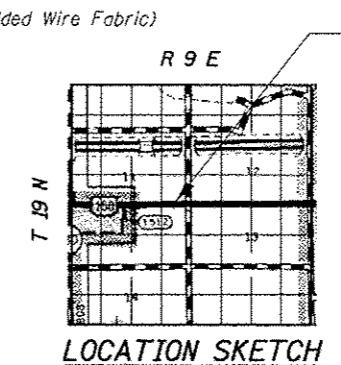
**DESIGN STRESSES**

**PRECAST UNITS**

f'c = 5,000 psi  
 fy = 65,000 psi (Welded Wire Fabric)

STATION 140+00.00  
 BUILT 2014 BY  
 STATE OF ILLINOIS  
 F.A.U. RT. 7152 US 150  
 SEC. (2X,3)RS-3 & 2RS-4  
 LOADING HL-93  
 STR. NO. 010-8157

**NAME PLATE**  
 See Std. 515001



PROP. S.N. 010-8157  
 STA. 140+00.00

**GENERAL PLAN AND ELEVATION**  
**SINGLE 12'x4' PRECAST BOX CULVERT**  
**F.A.U. ROUTE 7152 (US 150)**  
**SECTION (2X,3)RS-3 & 2RS-4**  
**CHAMPAIGN COUNTY**  
**STATION 140+00.00, S.N. 010-8157**  
**CULVERT NO. 2**

**WATERWAY INFORMATION**

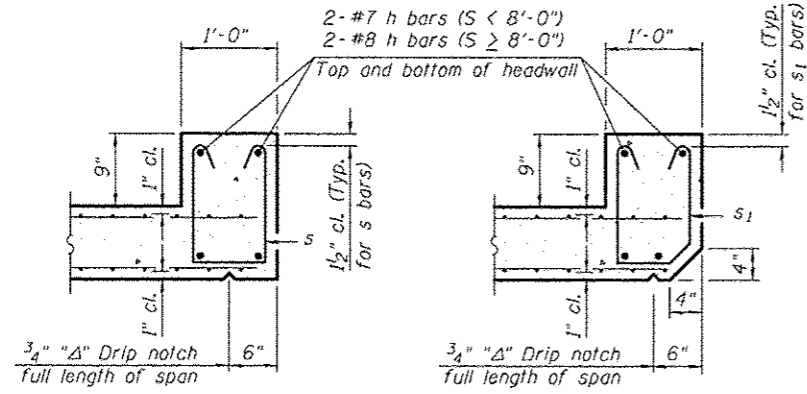
Drainage Area = 1.4 sq. mi. Low Grade Elev. 689.90 @ Sta. 142+00.00

Flood	Freq. Yr.	C.F.S.	Opening Sq. Ft.		Head - Ft.		Headwater El.	
			Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.
Design	10	318	9.5	39	687.3	N/A	1.3	over 688.6
Base	50	399	9.5	48	688.4	N/A	1.4	over 689.8
Overtopping	100	451	9.5	48	688.8	N/A	1.3	over 690.1
	55	405	9.5	48	688.5	N/A	1.4	over 689.9

**DESIGN SCOUR ELEVATION TABLE**

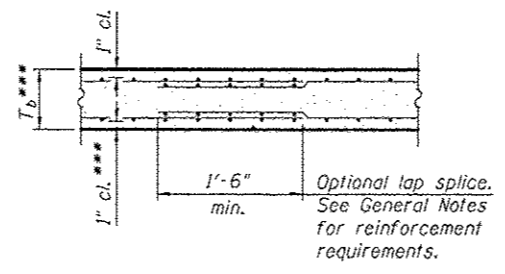
Design Scour Elevation (ft.)	Upstream	Downstream
	681.06	681.05





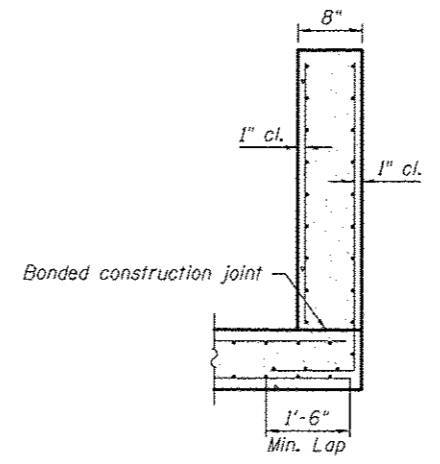
**SECTION B-B**  
(Top slab at downstream end)

**SECTION B-B**  
(Top slab at upstream end)

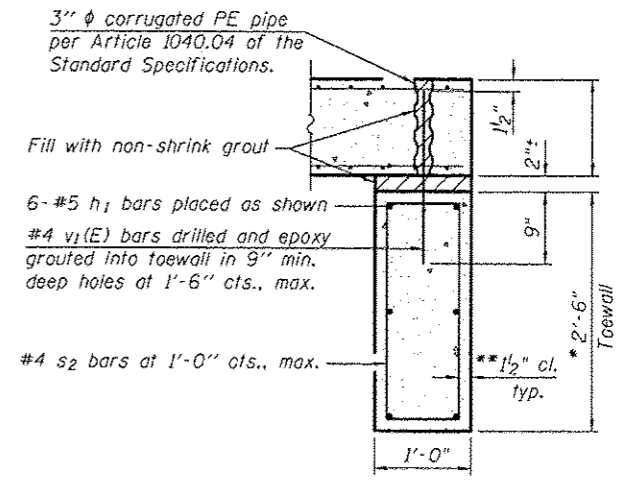


**SECTION B-B**  
(Bottom Slab)

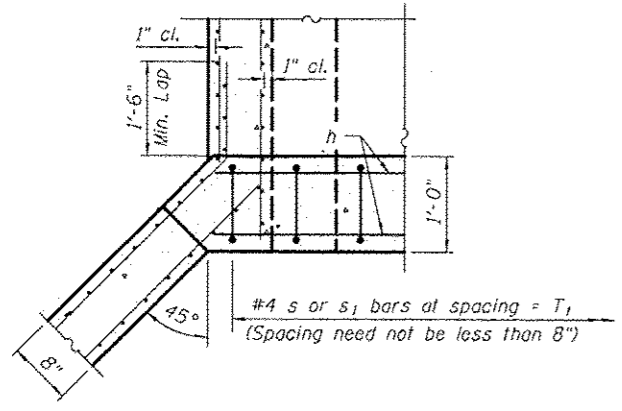
\*\*\* This dimension shall be increased by 2" for CIP construction.



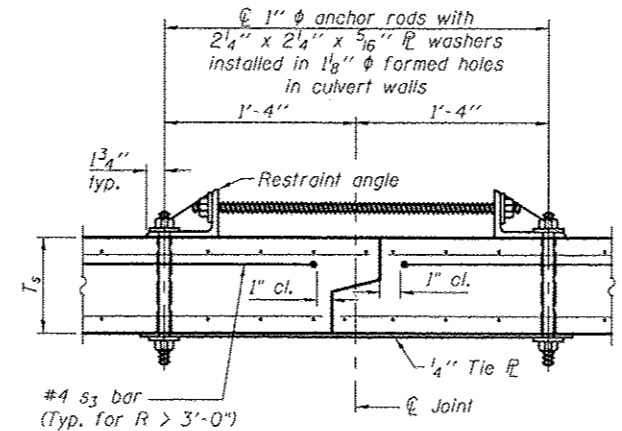
**SECTION C-C**



**SECTION D-D**



**SECTION E-E**



**SECTION F-F**  
(Showing culvert tie details)

**TOEWALL CONSTRUCTION SEQUENCE**

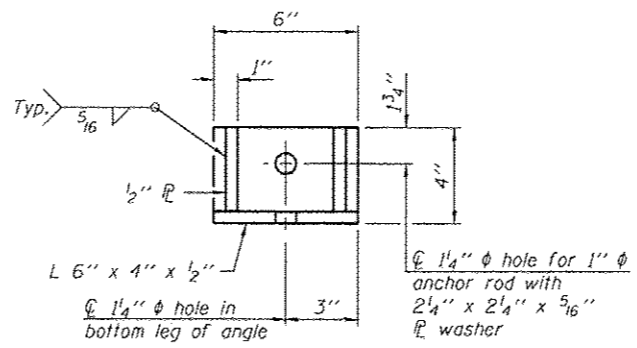
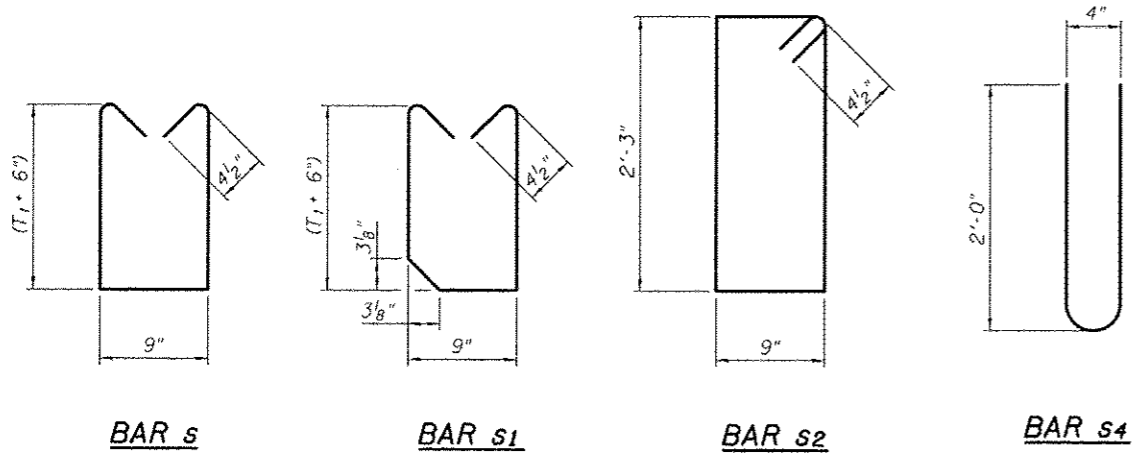
1. Perform excavation and construct toewall.
2. Backfill accordingly and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.

\* The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling method.

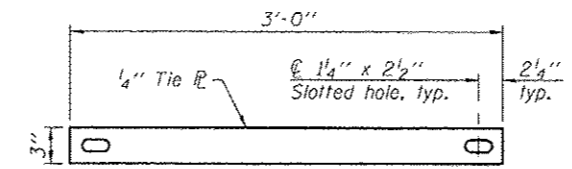
\*\* If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.

**Notes:**

1" φ anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for the tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2 1/4" x 2 1/4" x 5/16" plate washers shall be provided under each nut required for the anchor rods. Anchor rods installed in the sidewalls of the culvert shall be tightened per Article 505.04(f)(2)(d) of the Standard Specifications. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes. Alternate culvert ties similar in strength and stiffness to the plan details may be provided by the Contractor. Alternate culvert ties shall be subject to the approval of the Engineer.






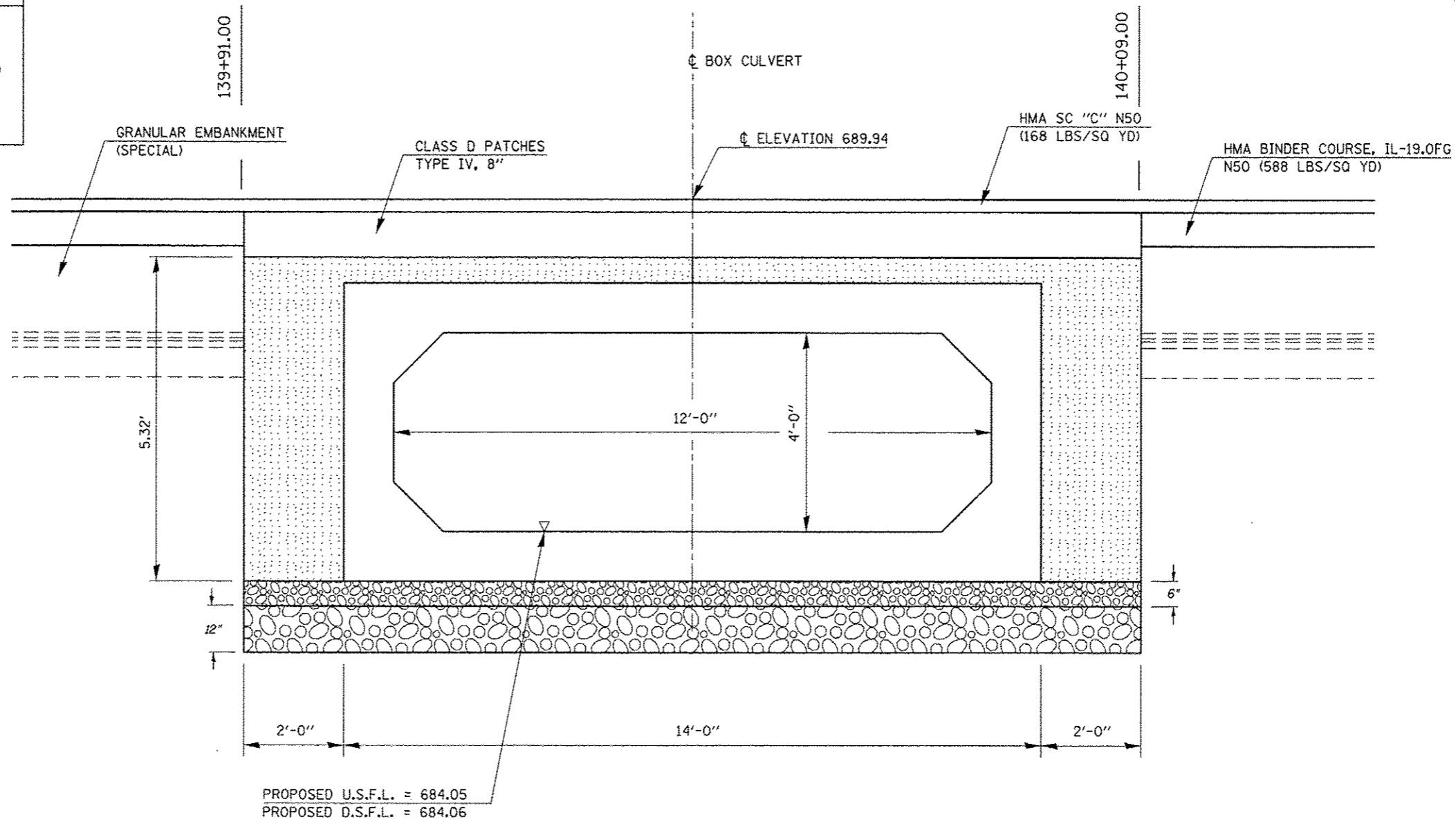
**RESTRAINT ANGLE DETAIL**



**TIE PLATE DETAIL**

FILE NAME =	USER NAME = ceerlock_jd	DESIGNED =	REVISED =	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PRECAST CONCRETE BOX CULVERT APRON END SECTION DETAILS	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cd\pw\work\p\p\dot\ceerlock_jd\012013\05070563-shr-struct\toes.dgn		CHECKED =	REVISED =			•	12X3IRS-3 & 2RS-4	Champaign	551	179
PLOT SCALE = 48.8958 1/4" = 1'-0"		DRAWN =	REVISED =			•	F.A.U. 7152 & F.A.S. 1512			CONTRACT NO. 70663
PLOT DATE = 10/10/2013		CHECKED =	REVISED =							ILLINOIS FED. AID PROJECT

LEGEND	
	POROUS GRANULAR EMBANKMENT
	BOX CULVERT BEDDING (CA-7 OR CA-11)
	STONE RIPRAP, CLASS A1



**STONE RIPRAP, CLASS A1**

STONE RIPRAP, CLASS A1 SHALL BE USED WHERE A.R. CULVERTS ARE REQUIRED TO BE UNDERCUT DUE TO UNSTABLE SOIL CONDITIONS.

WORK SHOWN IN THE DETAIL SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE PORTIONS OF SECTION 281 AND SECTION 282 OF THE STANDARD SPECIFICATIONS.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR STONE RIPRAP, CLASS A1. FILTER FABRIC WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED WITH THE PAY ITEM FOR STONE RIPRAP, CLASS A1.

THE EXCAVATION AND REMOVAL OF UNSUITABLE MATERIAL WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED WITH THE PAY ITEM FOR STONE RIPRAP, CLASS A1.

**POROUS GRANULAR EMBANKMENT**

POROUS GRANULAR EMBANKMENT SHALL EXTEND 2 FT. BEYOND THE AGGREGATE SHOULDER

WORK SHOWN IN THE DETAIL SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE PORTIONS OF SECTION 207 AND SECTION 540 OF THE STANDARD SPECIFICATIONS.

POROUS GRANULAR EMBANKMENT SHALL EXTEND 2 FT. BEYOND THE AGGREGATE SHOULDER

WORK SHOWN IN THE DETAIL SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE PORTIONS OF SECTION 207 AND SECTION 540 OF THE STANDARD SPECIFICATIONS.

**BILL OF MATERIAL**

Item	Unit	Total
Porous Granular Embankment	Cu.Yd.	41.2
Stone Riprap, Class A1	Sq.Yd.	128.2

DRAWING NOT TO SCALE.

FILE NAME -	USER NAME - cmerlockjd	DESIGNED - JMS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DETAIL OF POROUS GRANULAR EMBANKMENT</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
01\pwwork\pwwork\cmerlockjd\0128316\0128316.dwg	0663-shs-structures.dgn	DRAWN - JMS	REVISED -			• I2X,3RS-3 & 2RS-4	CHAMPAIGN	551	180	
PLOT SCALE - 1/8" = 1'-0"		CHECKED -	REVISED -			• F.A.U. 7152 & F.A.S. 1512	CONTRACT NO. 70663			
PLOT DATE - 10/10/2013		DATE - 062911	REVISED -			ILLINOIS FED. AID PROJECT				
SCALE: NONE						SHEET NO. 5 OF 11 SHEETS		STA. TO STA.		





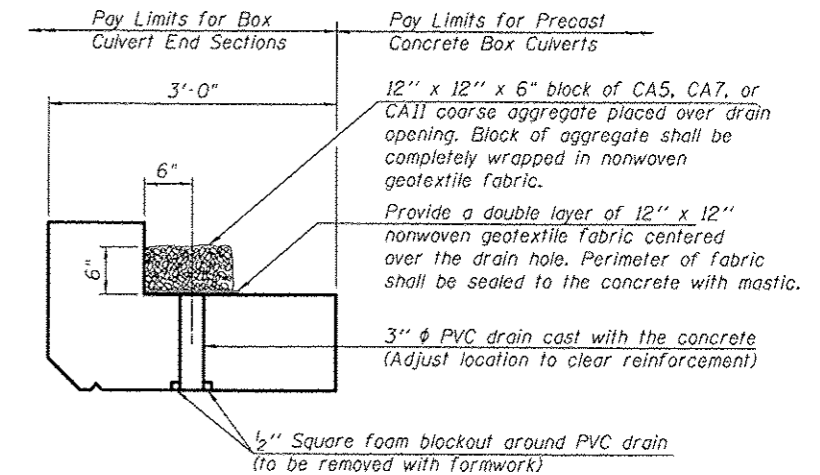
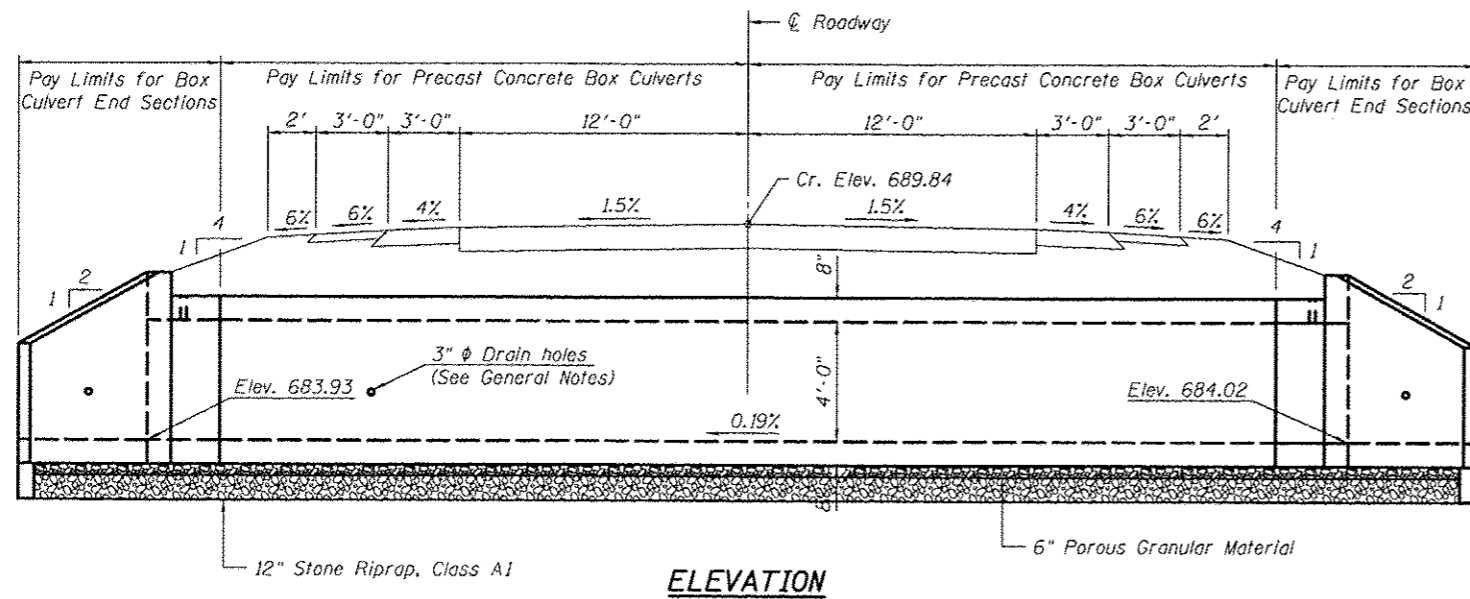
Benchmark: 687.296, Chiseled square on top of headwall of existing structure NE QUAD of Cottonwood Rd.

**INDEX OF SHEETS**

1. Plan & Profile Sheet
2. General Plan and Elevation
- 3-4. Precast Concrete Box Culvert Apron End Section Details

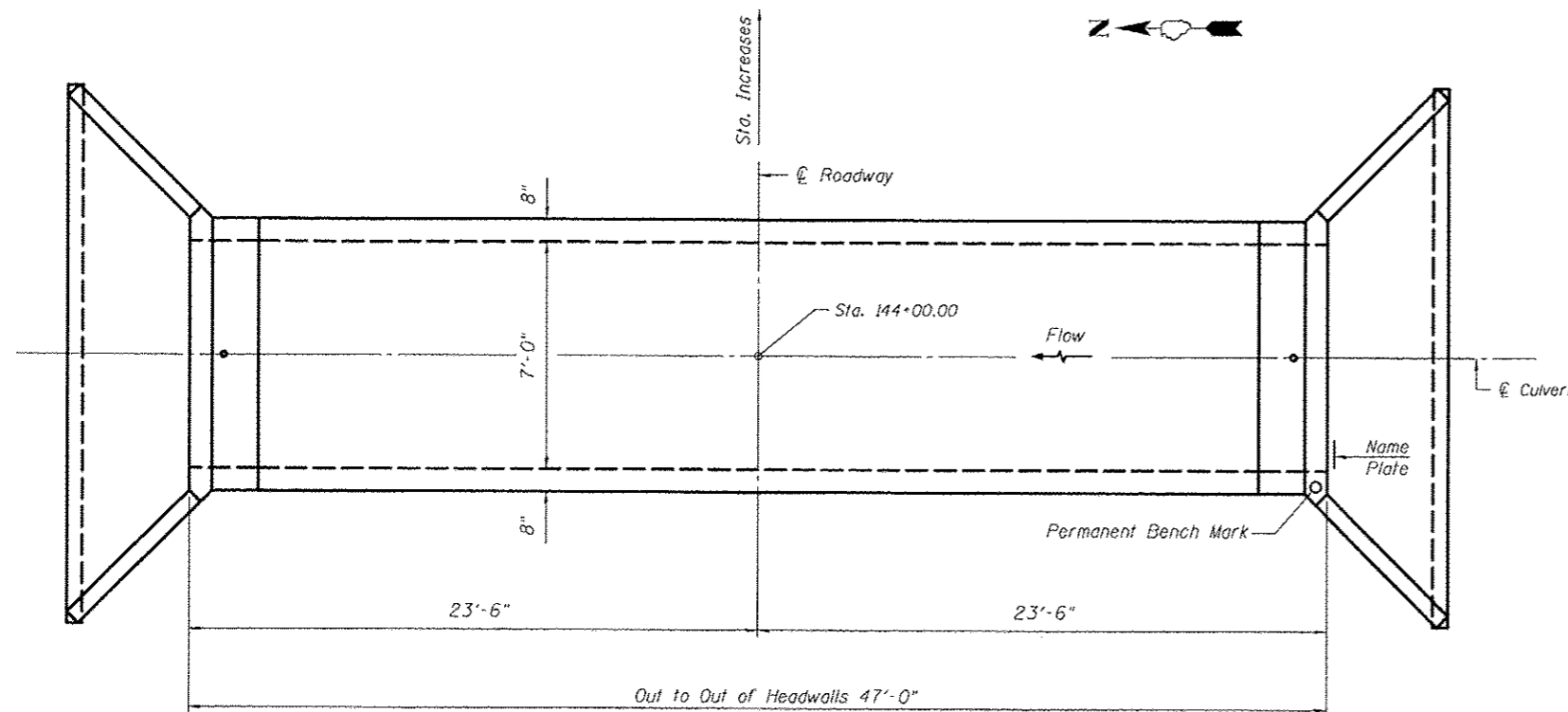
**GENERAL NOTES**

The design fill height for this box is < 2 feet. The precast box culvert sections shall conform to the requirements of AASHTO C 1577.  
 Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specification.  
 The 6 in. thick layer of porous granular material required for the precast concrete box culvert per Art. 540.06 of the Standard Specifications shall also apply to the end sections. Cost of the porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.  
 Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.  
 All exposed edges shall be chamfered 3/4" per article 503.06 of the Standard Specifications.

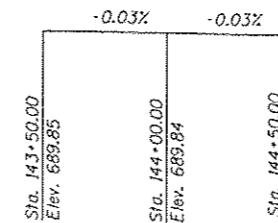


**DRAIN DETAIL**

(All costs associated with furnishing and constructing the above drain details will not be measured for payment but shall be included in the contract unit price for the end section.)



**PLAN**



**PROFILE GRADE**

**DESIGN SPECIFICATIONS**

2012 AASHTO LRFD Bridge Design Specifications  
6th Edition

**LOADING HL-93**

**DESIGN STRESSES**

**PRECAST UNITS**

f'c = 5,000 psi  
fy = 65,000 psi (Welded Wire Fabric)

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Name Plates	Each	1.0
Box Culvert End Sections, Culvert No. 3	Each	2.0
Precast Concrete Box Culverts, 7x4	Foot	41.0
Permanent Bench Marks	Each	1.0
Stone Riprap, Class A1	Sq. Yd.	95.7
Porous Granular Embankment	Cu. Yd.	40.1

**WATERWAY INFORMATION**

Drainage Area = 0.2 sq. mi. Low Grade Elev. 689.74 @ Sta. 15+00.00

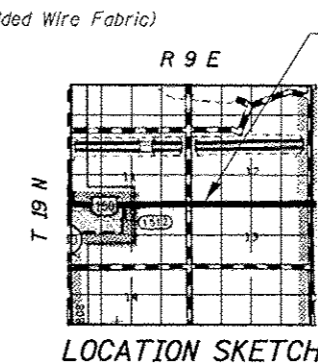
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	63	7	19	686.6	N/A	0.2	over	686.7
Base	50	103	7	21	686.9	N/A	0.4	over	687.4
Overtopping	100	121	7	22	687.0	N/A	0.6	over	687.6
		164	7	24	687.3	N/A	0.9	over	688.3

**DESIGN SCOUR ELEVATION TABLE**

Design Scour Elevation (ft.)	Upstream	Downstream
	681.02	680.93

STATION 144+00.00  
BUILT 2014 BY  
STATE OF ILLINOIS  
F.A.S. 1512 RT. US 150  
SEC. (2X,3)RS-3 & 2RS-4  
LOADING HL-93  
STR. NO. 010-8158

**NAME PLATE**  
See Std. 515001

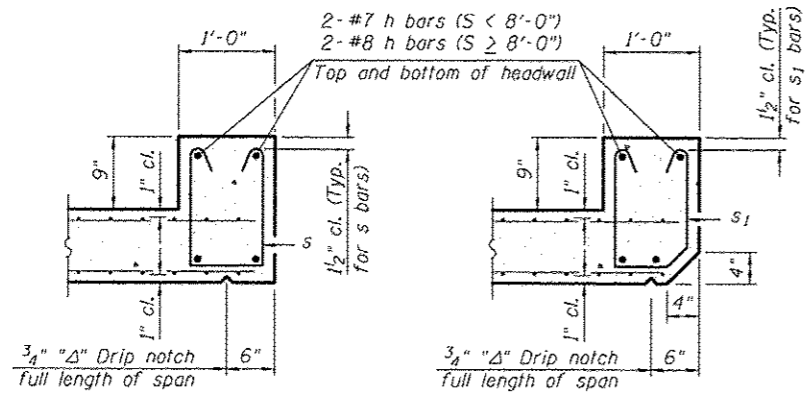


**LOCATION SKETCH**

PROP. S.N. 010-8158  
STA. 144+00.00

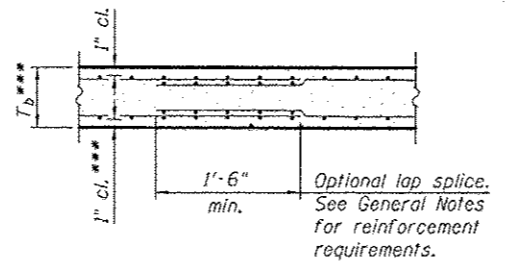
**GENERAL PLAN AND ELEVATION  
SINGLE 7'x4' PRECAST BOX CULVERT  
F.A.S. ROUTE 1512 (US 150)  
SECTION (2X,3)RS-3 & 2RS-4  
CHAMPAIGN COUNTY  
STATION 144+00.00, S.N. 010-8158  
CULVERT NO. 3**





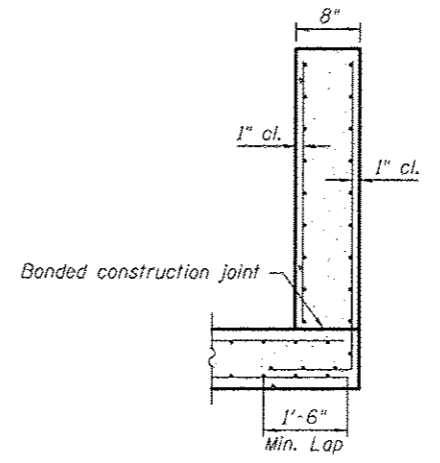
**SECTION B-B**  
(Top slab at downstream end)

**SECTION B-B**  
(Top slab at upstream end)

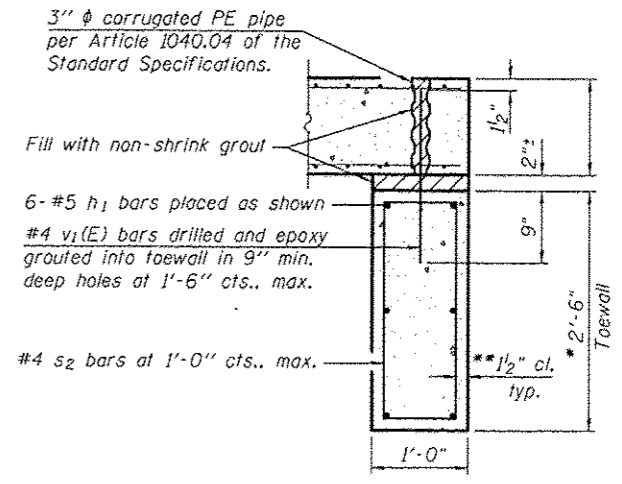


**SECTION B-B**  
(Bottom Slab)

\*\*\* This dimension shall be increased by 2" for CIP construction.



**SECTION C-C**



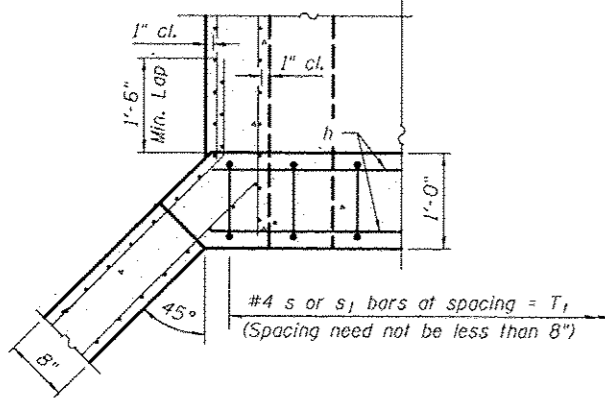
**SECTION D-D**

**TOEWALL CONSTRUCTION SEQUENCE**

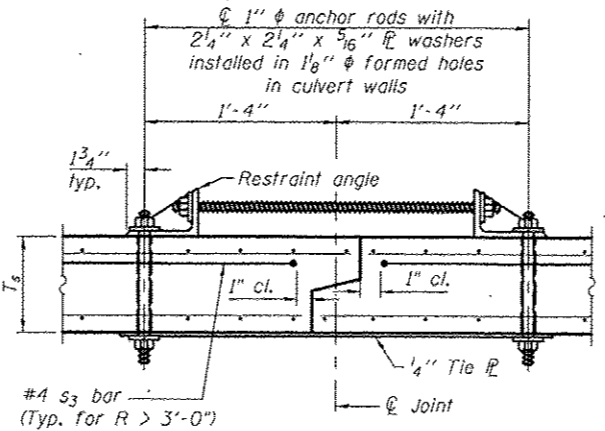
1. Perform excavation and construct toewall.
2. Backfill accordingly and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.

\* The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling method.

\*\* If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.

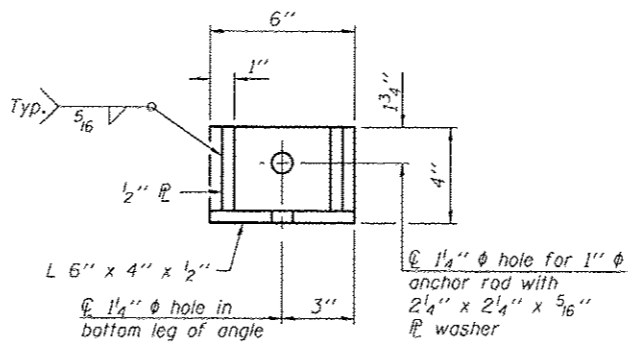


**SECTION E-E**

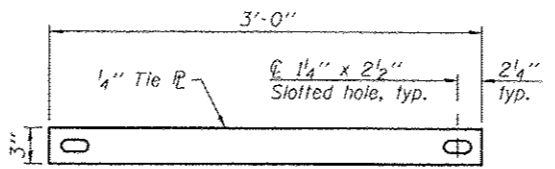


**SECTION F-F**  
(Showing culvert tie details)

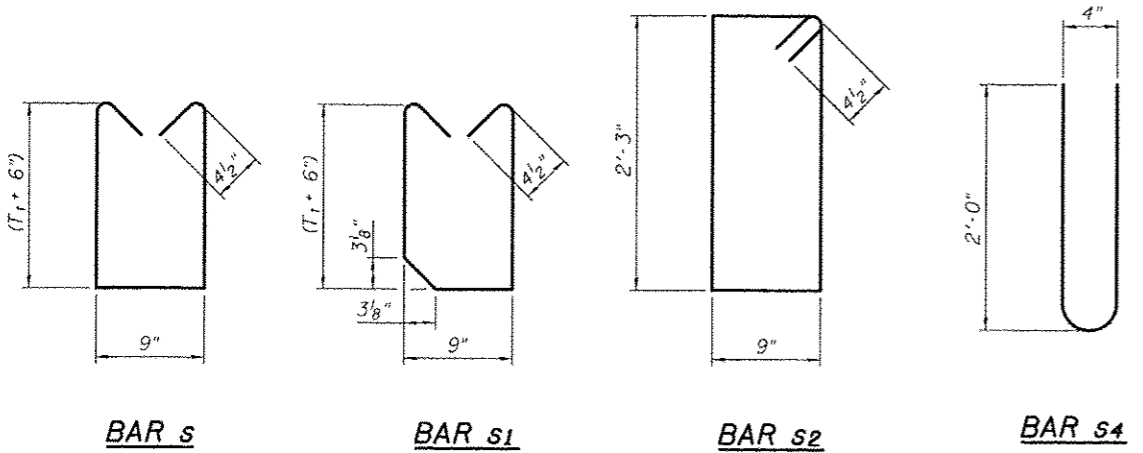
Notes:  
1" diameter anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for the tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2 1/4" x 2 1/4" x 5/16" plate washers shall be provided under each nut required for the anchor rods. Anchor rods installed in the sidewalls of the culvert shall be tightened per Article 505.04(f)(2)(d) of the Standard Specifications. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes. Alternate culvert ties similar in strength and stiffness to the plan details may be provided by the Contractor. Alternate culvert ties shall be subject to the approval of the Engineer.



**RESTRAINT ANGLE DETAIL**



**TIE PLATE DETAIL**



**BAR s**

**BAR s1**

**BAR s2**

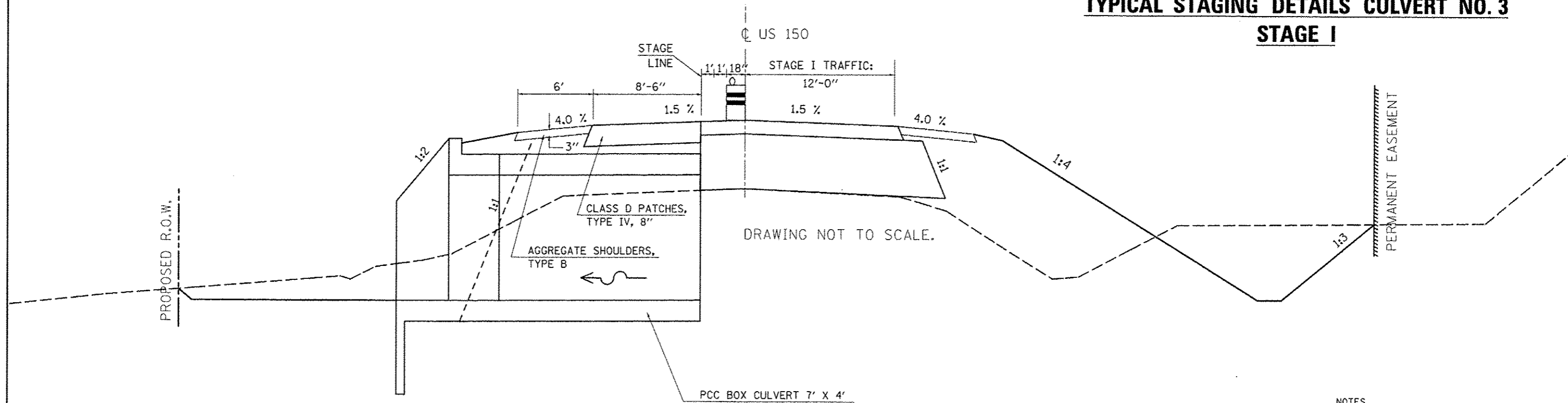
**BAR s4**





# TYPICAL STAGING DETAILS CULVERT NO. 3

## STAGE I



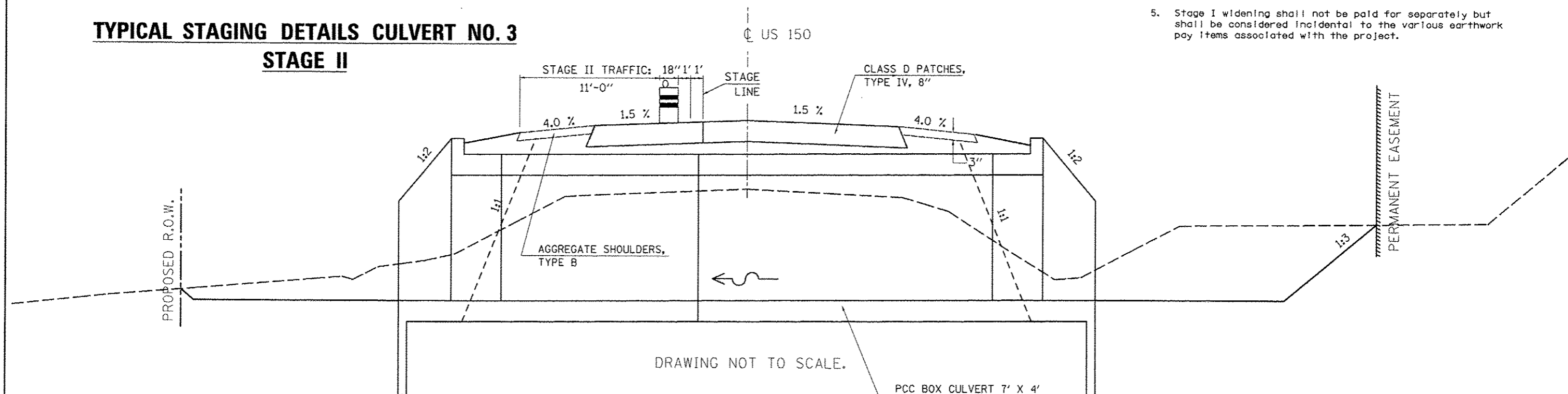
A. R. CULVERT LOCATION	TRAFFIC CONTROL STANDARD	ESTIMATED TIME	CHANGEABLE MESSAGE SIGNS
STA. 144+00.00	701206	1 Day - 24 hrs. - Non-Stop (1) - 12 hr. Day Shift (1) - 12 hr. Night Shift	2 EACH AT 2.0 CAL DAY = 4.0 CAL DAY

### NOTES

1. Refer to Special Provisions for TRAFFIC CONTROL AND PROTECTION, STANDARD 701206 and STAGE CONSTRUCTION ACROSS ROAD STRUCTURES for additional information.
2. Construct downstream end of A.R. culvert first.
3. CMS boards shall be placed 3 days in advance prior to work.
4. Construct Stage I widening and Aggregate Shoulders, Type B after placing box culvert sections.
5. Stage I widening shall not be paid for separately but shall be considered incidental to the various earthwork pay items associated with the project.

# TYPICAL STAGING DETAILS CULVERT NO. 3

## STAGE II



FILE NAME : c:\pwwork\pwwork\pwwork\lock\j\d8120316\0670663-shd-structures.dgn	USER NAME : ceerlockjd	DESIGNED - JMS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TRAFFIC CONTROL STAGING DETAIL CULVERT NO. 3</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE : 48.0000 / 1 in.	CHECKED -	REVIS	REVIS		SCALE: NONE	SHEET NO. 11 OF 11 SHEETS	STA.	TO STA.	• F.A.U. 7152 & F.A.S. 1512	CHAMPAIGN	551	186
PLOT DATE : 10/10/2013	DATE - 062911	REVIS	REVIS						CONTRACT NO. 70663			
									ILLINOIS FED. AID PROJECT			

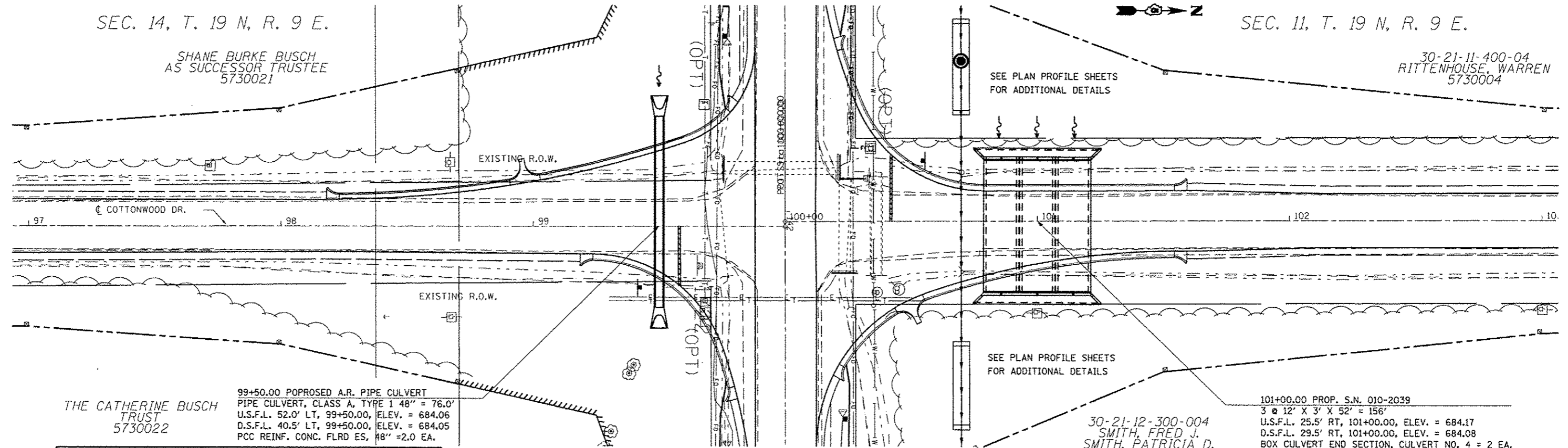
SEC. 14, T. 19 N, R. 9 E.

SHANE BURKE BUSCH  
AS SUCCESSOR TRUSTEE  
5730021

SEC. 11, T. 19 N, R. 9 E.

30-21-11-400-04  
RITTENHOUSE, WARREN  
5730004

DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	



99+50.00 PROPOSED A.R. PIPE CULVERT  
PIPE CULVERT, CLASS A, TYPE 1 48" = 76.0'  
U.S.F.L. 52.0' LT, 99+50.00, ELEV. = 684.06  
D.S.F.L. 40.5' LT, 99+50.00, ELEV. = 684.05  
PCC REINF. CONC. FLRD ES, 48" = 2.0 EA.

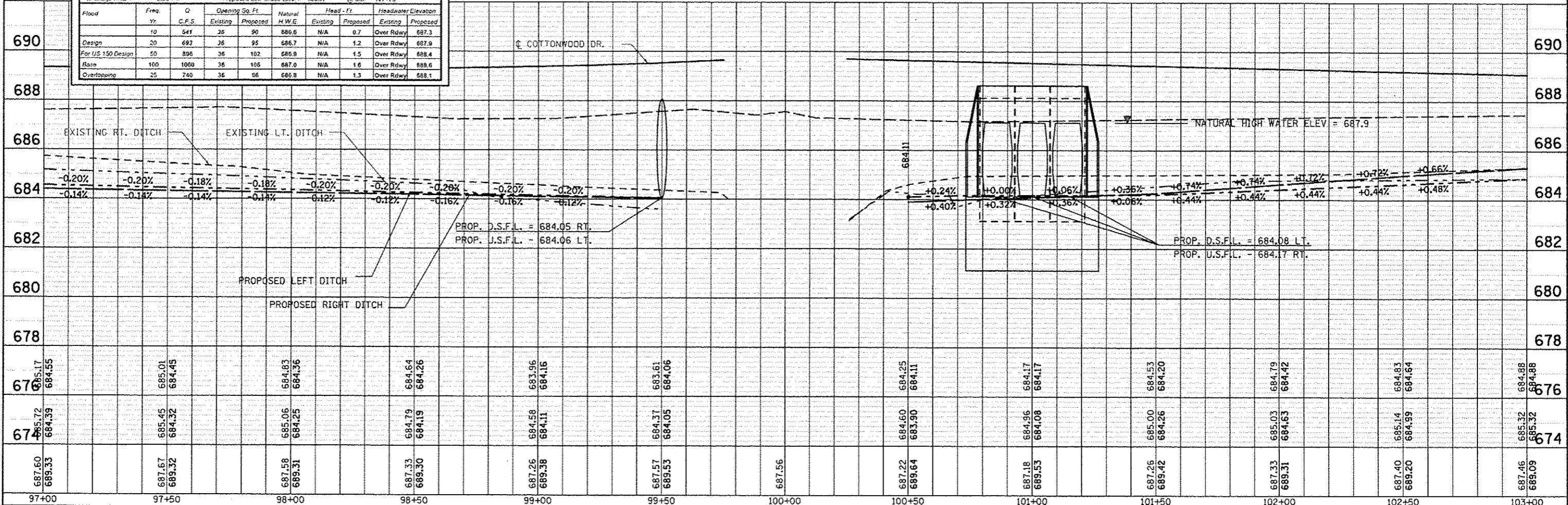
30-21-12-300-004  
SMITH, FRED J.  
SMITH, PATRICIA D.  
5730005

101+00.00 PROP. S.N. 010-2039  
3 @ 12' X 3' X 52' = 156'  
U.S.F.L. 25.5' RT, 101+00.00, ELEV. = 684.17  
D.S.F.L. 29.5' RT, 101+00.00, ELEV. = 684.08  
BOX CULVERT END SECTION, CULVERT NO. 4 = 2 EA.

WATERWAY INFORMATION TABLE

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Natural H.W.E.	Head - Ft.		Headwater Elevation	
			Existing	Proposed		Existing	Proposed	Existing	Proposed
Design	20	693	36	95	686.6	N/A	0.7	Over Rdwy	687.3
For US 150 Design	50	896	36	102	686.9	N/A	1.2	Over Rdwy	687.9
Base	100	1060	36	106	687.0	N/A	1.6	Over Rdwy	688.6
Overlapping	25	740	36	86	686.8	N/A	1.3	Over Rdwy	688.1

DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	
DATE	
BY	
REVISIONS	
NO.	

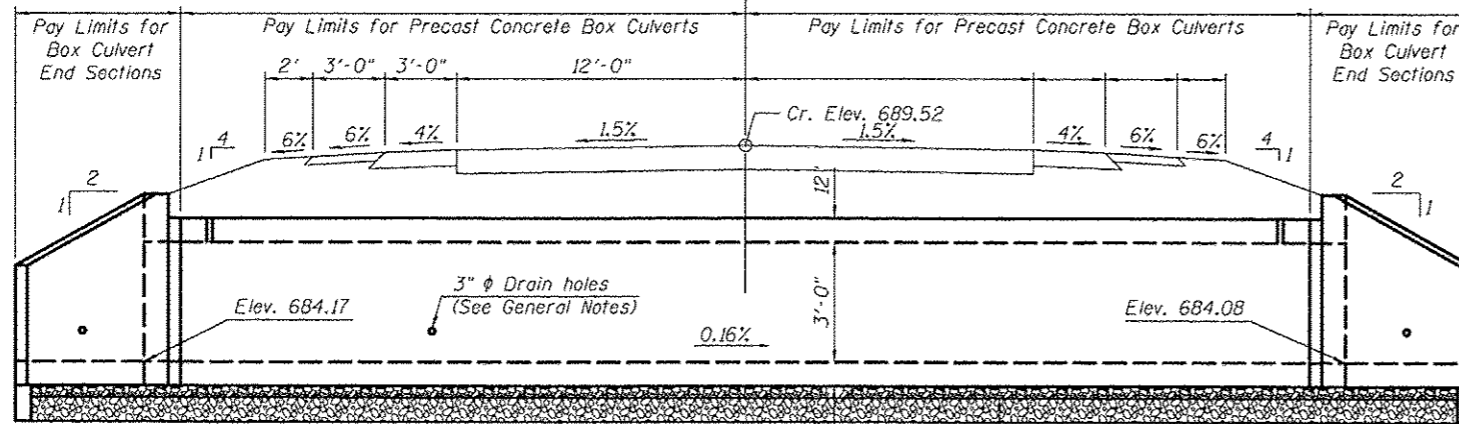


FILE NAME	USER NAME	DESIGNED	REVISED	<p align="center"><b>STATE OF ILLINOIS</b> <b>DEPARTMENT OF TRANSPORTATION</b></p> <p align="center"><b>DETAIL OF A.R. BOX CULVERT NO. 4</b> <b>STA. 100+78.75, S.N. 010-2039</b></p>	<table border="1"> <tr><th>F.A.U. RTE.</th><th>SECTION</th><th>COUNTY</th><th>TOTAL SHEET NO.</th></tr> <tr><td>•</td><td>12X,31RS-3 &amp; 2RS-4</td><td>CHAMPAIGN</td><td>551 187</td></tr> <tr><td>•</td><td>F.A.U. 7152 &amp; F.A.S. 1512</td><td>CONTRACT NO.</td><td>70663</td></tr> <tr><td colspan="4">ILLINOIS FED. AID PROJECT</td></tr> </table>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET NO.	•	12X,31RS-3 & 2RS-4	CHAMPAIGN	551 187	•	F.A.U. 7152 & F.A.S. 1512	CONTRACT NO.	70663	ILLINOIS FED. AID PROJECT			
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET NO.																		
•	12X,31RS-3 & 2RS-4	CHAMPAIGN	551 187																		
•	F.A.U. 7152 & F.A.S. 1512	CONTRACT NO.	70663																		
ILLINOIS FED. AID PROJECT																					
DRAWN	REVISIONS	CHECKED	REVISED																		
PLOT SCALE = 48.0000' / in.	DATE	DATE	DATE																		
PLOT DATE = 10/18/2013																					

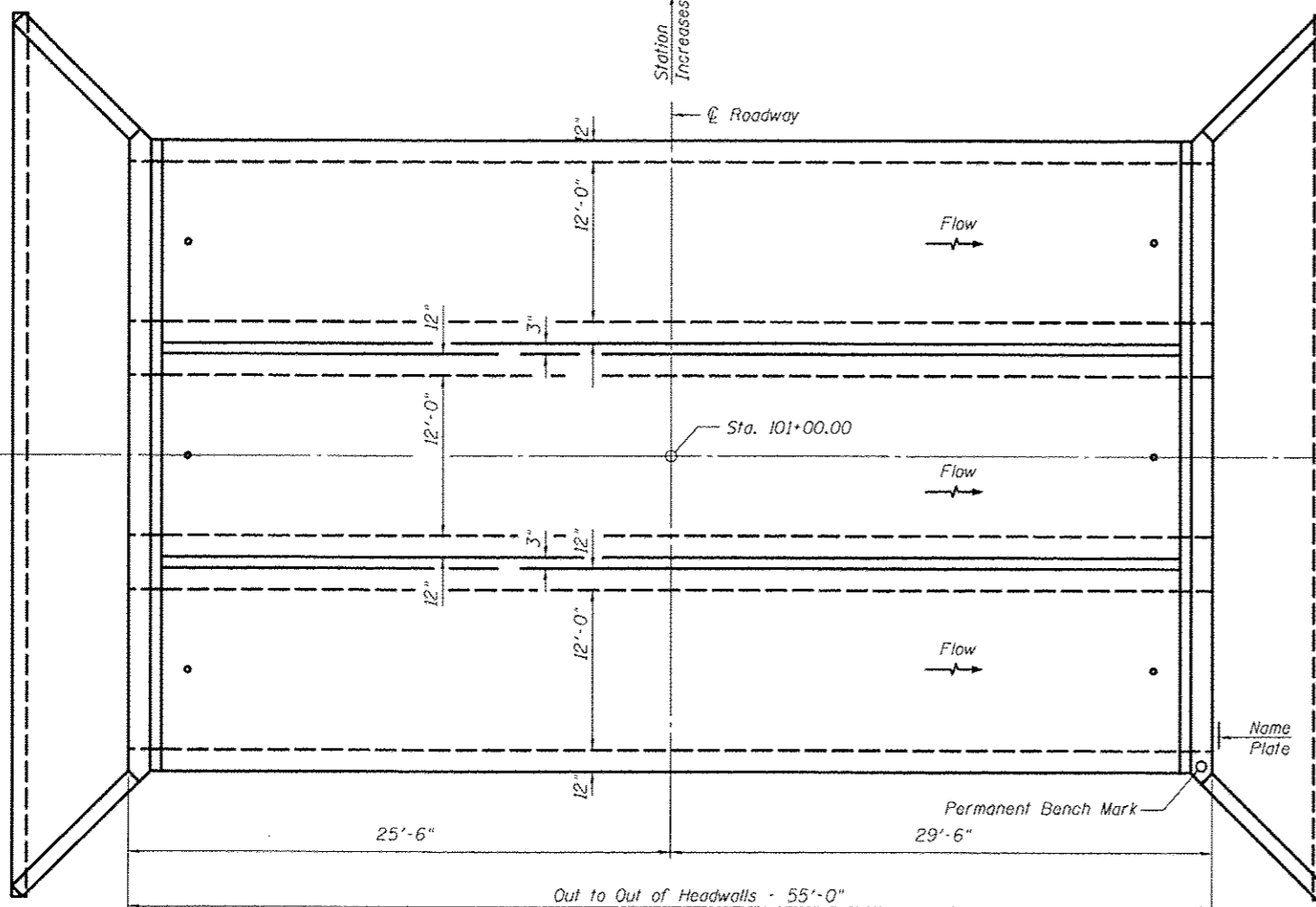
SCALE: SHEET 1 OF 5 SHEETS STA. TO STA.

Benchmark: 687.296, Chiseled square on top of headwall of existing structure NE QUAD of Cottonwood Rd.

Existing Structure: 2-36" PVC pipe culverts under Cottonwood Dr. and existing RC Box. — Roadway



**ELEVATION**



**WATERWAY INFORMATION**

Drainage Area = 2.35 sq. mi. Low Grade Elev. 688.07 @ Sta. 107+75.00										
Flood	Freq. Yr.	Q C.F.S.	Opening	Head	Headwater	Head - Ft.		Headwater El.		
			Sq. Ft.	H.W.E.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	10	541	36	90	686.6	N/A	0.7	over	687.3	
Base	20	693	36	95	686.7	N/A	1.2	over	687.9	
Overtopping	100	1060	36	106	687.0	N/A	1.6	over	688.6	
US 150 Design	25	740	36	96	686.8	N/A	1.3	over	688.1	
	50	896	36	102	686.9	N/A	1.5	over	688.4	

**DESIGN SCOUR ELEVATION TABLE**

Design Scour Elevation (ft.)	Upstream	Downstream
	681.17	681.08

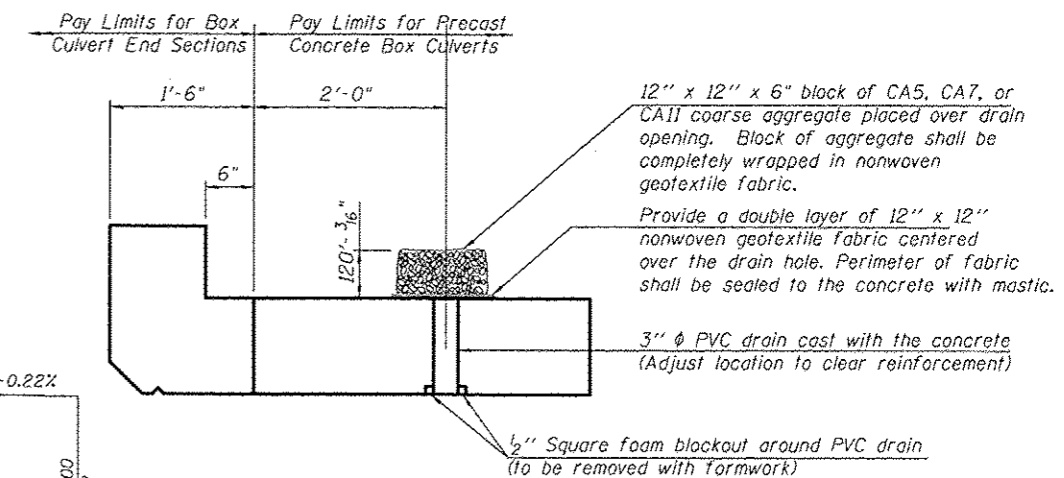
**INDEX OF SHEETS**

1. Plan & Profile Sheet
2. General Plan and Elevation
- 3-4. Precast Concrete Box Culvert Apron End Section Details
5. Porous Granular Embankment Details
6. Dimensions and Quantities Sheets

**GENERAL NOTES**

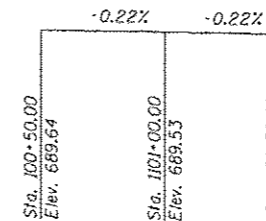
The design fill height for this box is < 2 feet. The precast box culvert sections shall conform to the requirements of AASHTO C 1577. Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specification. Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.

All exposed edges shall be chamfered 3/4" per article 503.06 of the Standard Specifications.



**DRAIN DETAIL**

(All costs associated with furnishing and constructing the above drain details will not be measured for payment but shall be included in the contract unit price for the box culvert.)



**PROFILE GRADE**

**DESIGN SPECIFICATIONS**

2012 AASHTO LRFD Bridge Design Specifications  
6th Edition

**LOADING HL-93**

**DESIGN STRESSES**

**PRECAST UNITS**

f'c = 5,000 psi  
fy = 65,000 psi (Welded Wire Fabric)

**FIELD UNITS**

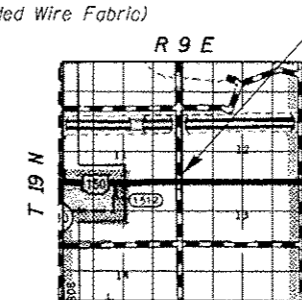
f'c = 3,500 psi  
fy = 65,000 psi (Welded Wire Fabric)

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Name Plates	Each	1.0
Box Culvert End Sections, Culvert No. 4	Each	2.0
Precast Concrete Box Culverts, 12x3	Foot	156.0
Permanent Bench Marks	Each	1.0
Stone Riprap, Class A1	Sq. Yd.	353.4
Porous Granular Embankment	Cu. Yd.	46.9

STATION 101+00.00  
BUILT 2014 BY  
STATE OF ILLINOIS  
F.A.U. RT. 7152 US 150  
SEC. (2X,3)RS-3 & 2RS-4  
LOADING HL-93  
STR. NO. 010-2039

**NAME PLATE**  
See Std. 515001



**LOCATION SKETCH**

PROP. S.N. 010-2039  
STA. 101+00.00

**GENERAL PLAN AND ELEVATION  
DOUBLE 12'x4' PRECAST BOX CULVERT  
F.A.U. ROUTE 7152 (US 150)  
SECTION (2X,3)RS-3 & 2RS-4  
CHAMPAIGN COUNTY  
STATION 101+00.00, S.N. 010-2039  
CULVERT NO. 4**



**GENERAL NOTES**

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections. Box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements for ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

Details for Double Cell Box Culvert shown. Details for Triple Cell Box Culvert similar.

The details contained herein are for constructing the end sections using cast-in-place (CIP) construction. The Contractor may propose to furnish the end sections using precast construction methods and the end sections may consist of multiple precast concrete segments. The Contractor shall be responsible for determining all details associated with the precast option including any strengthening or stiffening provisions necessary for handling the precast segments. Conceptual details followed by shop drawings and design calculations sealed by an Illinois Licensed Structural Engineer shall be submitted to the Engineer for review and approval. Elements of the precast option shall at a minimum result in the same wingwall geometry and not have a thickness less than that detailed herein. The option to construct the end sections using precast construction methods shall be at no additional charge.

Shop drawings that detail slab thickness and reinforcement layout for the Box Culvert End Sections shall be provided to the Engineer for review and approval. Reinforcement bars not detailed herein shall be detailed with a clear distance at the end of the reinforcement not less than 1/2" nor more than 2".

The contractor may use reinforcement bars in lieu of welded wire fabric (WWF). Reinforcement bars shall be limited to the sizes of #3 through #5 bars, a maximum spacing of the lesser of 8" or the member thickness, and shall result in an area of reinforcement equal to or greater than that provided by the WWF. Minimum lap lengths detailed herein are applicable to WWF and reinforcement bars.

Reinforcement (circumferential and longitudinal) in the precast concrete box culvert segments immediately adjacent to the box culvert end sections that is being lapped with the end section reinforcement shall not be less than that required by ASTM C 1577 for the design fill height or the reinforcement detailed for the end section, whichever is greater.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60.

Reinforcement bars designated (E) shall be epoxy coated.

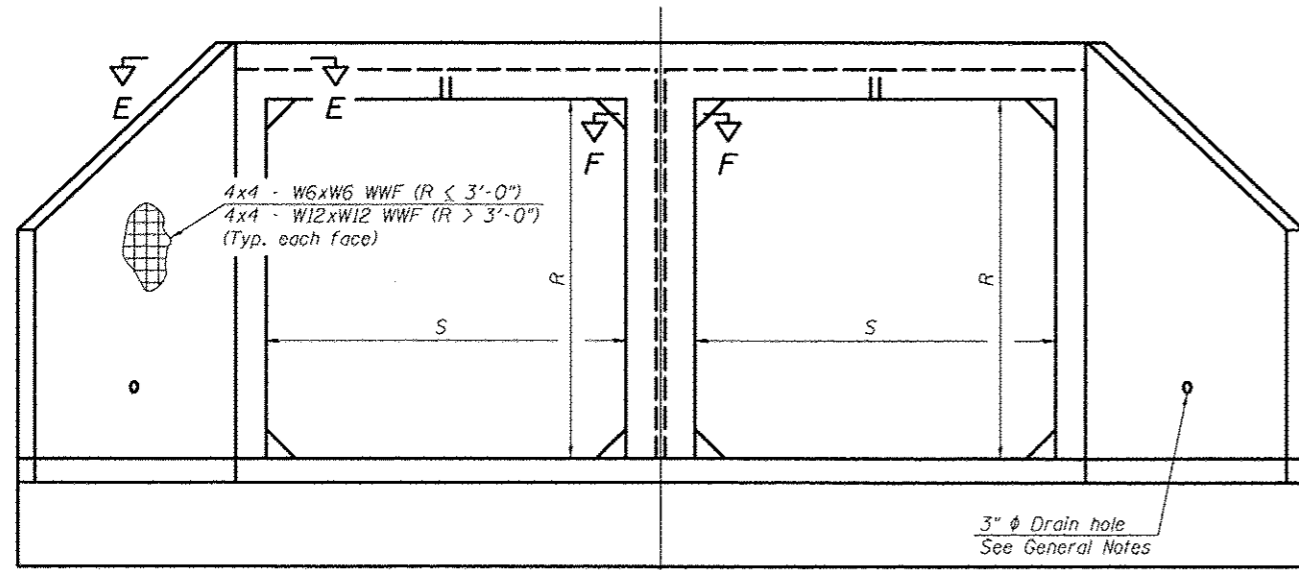
Class SI concrete shall be used for construction of the end section.

Bonded construction joints shall be prepared according to Article 503.09 of the Standard Specifications.

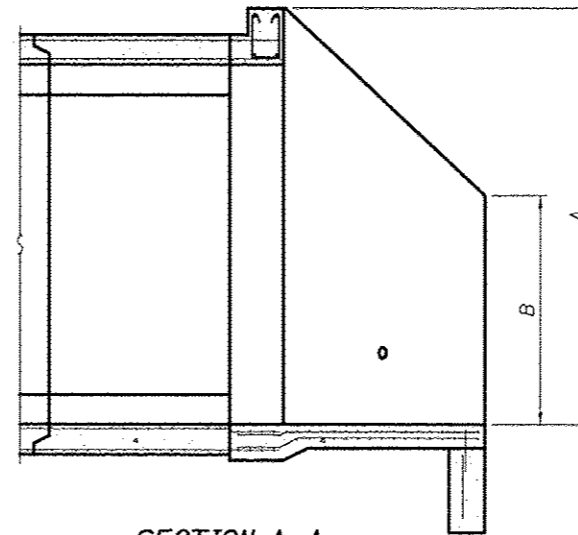
One drain hole shall be provided in each wingwall for end sections of box culverts having an opening with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.

**APRON END SECTION DIMENSIONS**

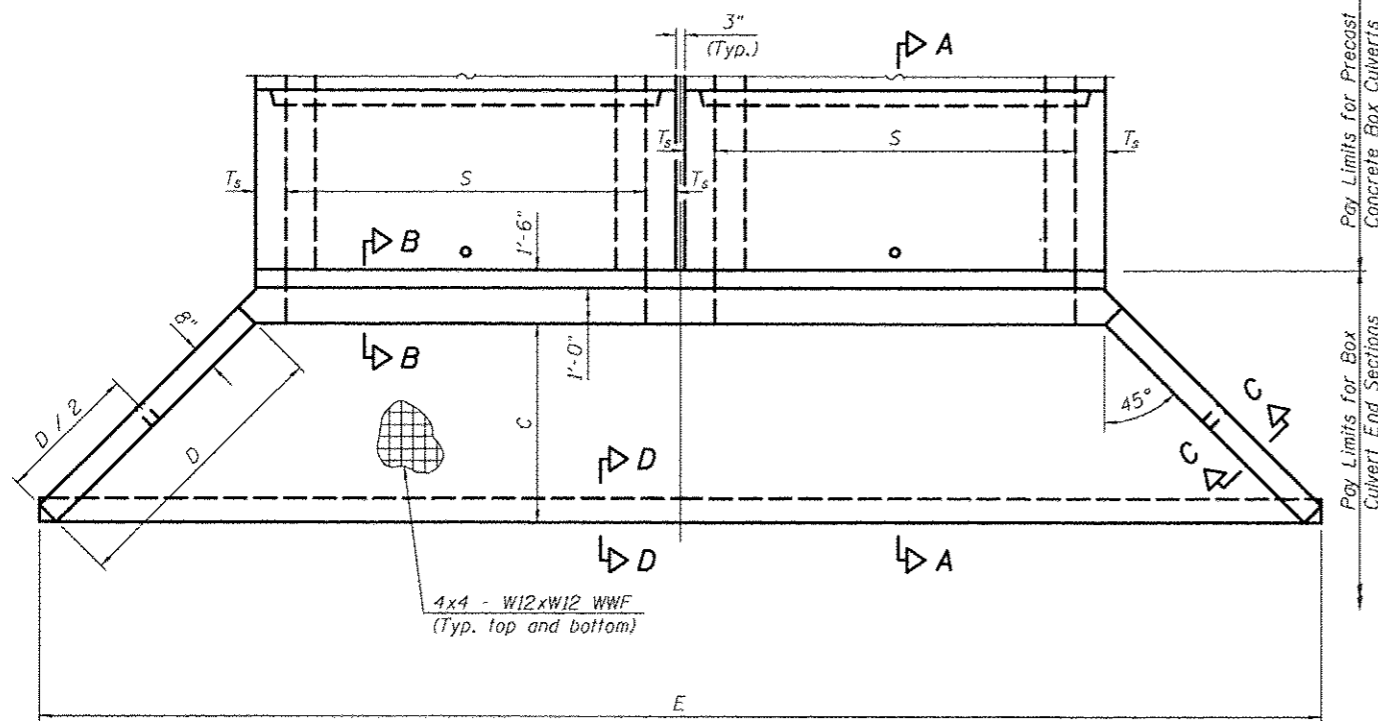
Span (S)	Rise (R)	T <sub>1</sub> , T <sub>b</sub> , & T <sub>s</sub>	A	B	C	D	Double Cell		Triple Cell	
							E	Concrete Cu. Yd.	E	Concrete Cu. Yd.
7'-0"	4'-0"	8"	5'-5"	3'-3"	4'-11 <sup>3</sup> / <sub>8</sub> "	7'-0"	27'-9 <sup>3</sup> / <sub>8</sub> "	9.5		
7'-0"	5'-0"	8"	6'-5"	3'-9"	5'-11 <sup>3</sup> / <sub>8</sub> "	8'-5"	29'-9 <sup>3</sup> / <sub>8</sub> "	11.2		
7'-0"	6'-0"	8"	7'-5"	4'-3"	6'-11 <sup>1</sup> / <sub>2</sub> "	9'-10"	31'-9 <sup>1</sup> / <sub>4</sub> "	13.1		
8'-0"	2'-0"	8"	3'-5"	2'-3"	2'-11 <sup>3</sup> / <sub>8</sub> "	4'-2"	25'-9"	7.1		
8'-0"	3'-0"	8"	4'-5"	2'-9"	3'-11 <sup>3</sup> / <sub>8</sub> "	5'-7"	27'-9 <sup>3</sup> / <sub>8</sub> "	8.6		
8'-0"	4'-0"	8"	5'-5"	3'-3"	4'-11 <sup>3</sup> / <sub>8</sub> "	7'-0"	29'-9 <sup>3</sup> / <sub>8</sub> "	10.2		
8'-0"	5'-0"	8"	6'-5"	3'-9"	5'-11 <sup>3</sup> / <sub>8</sub> "	8'-5"	31'-9 <sup>3</sup> / <sub>8</sub> "	11.9		
8'-0"	6'-0"	8"	7'-5"	4'-3"	6'-11 <sup>1</sup> / <sub>2</sub> "	9'-10"	33'-9 <sup>1</sup> / <sub>4</sub> "	13.8		
9'-0"	5'-0"	9"	6'-6"	3'-9"	6'-0 <sup>7</sup> / <sub>8</sub> "	8'-7"	34'-4"	13.2	45'-1"	17.6
9'-0"	6'-0"	9"	7'-6"	4'-3"	7'-0 <sup>7</sup> / <sub>8</sub> "	9'-11"	36'-2 <sup>5</sup> / <sub>8</sub> "	15.1	46'-11 <sup>5</sup> / <sub>8</sub> "	19.8
10'-0"	2'-0"	10"	3'-7"	2'-4"	3'-1 <sup>1</sup> / <sub>2</sub> "	4'-5"	30'-9 <sup>1</sup> / <sub>4</sub> "	9.2	42'-8 <sup>1</sup> / <sub>4</sub> "	13.0
10'-0"	3'-0"	10"	4'-7"	2'-10"	4'-1 <sup>1</sup> / <sub>2</sub> "	5'-10"	32'-9 <sup>1</sup> / <sub>4</sub> "	10.8	44'-8 <sup>1</sup> / <sub>4</sub> "	15.0
10'-0"	5'-0"	10"	6'-7"	3'-10"	6'-1 <sup>1</sup> / <sub>2</sub> "	8'-8"	36'-9 <sup>3</sup> / <sub>8</sub> "	14.5	48'-8 <sup>3</sup> / <sub>8</sub> "	19.5
10'-0"	6'-0"	10"	7'-7"	4'-4"	7'-1 <sup>1</sup> / <sub>2</sub> "	10'-1"	38'-9 <sup>3</sup> / <sub>8</sub> "	16.6	50'-8 <sup>3</sup> / <sub>8</sub> "	22.0
11'-0"	4'-0"	11"	5'-8"	3'-4"	5'-2 <sup>1</sup> / <sub>2</sub> "	7'-4"	37'-2 <sup>3</sup> / <sub>4</sub> "	13.9	50'-3 <sup>3</sup> / <sub>4</sub> "	19.1
11'-0"	6'-0"	11"	7'-8"	4'-4"	7'-2 <sup>1</sup> / <sub>4</sub> "	10'-2"	41'-2 <sup>7</sup> / <sub>8</sub> "	18.1	54'-3 <sup>7</sup> / <sub>8</sub> "	24.2
12'-0"	2'-0"	12"	3'-9"	2'-5"	3'-3 <sup>5</sup> / <sub>8</sub> "	4'-8"	35'-9 <sup>1</sup> / <sub>2</sub> "	11.6	50'-0 <sup>1</sup> / <sub>2</sub> "	16.5
12'-0"	3'-0"	12"	4'-9"	2'-11"	4'-3 <sup>5</sup> / <sub>8</sub> "	6'-1"	37'-9 <sup>1</sup> / <sub>2</sub> "	13.4	52'-0 <sup>1</sup> / <sub>2</sub> "	18.8
12'-0"	4'-0"	12"	5'-9"	3'-5"	5'-3 <sup>5</sup> / <sub>8</sub> "	7'-6"	39'-0 <sup>5</sup> / <sub>8</sub> "	15.4	54'-0 <sup>5</sup> / <sub>8</sub> "	21.2
12'-0"	6'-0"	12"	7'-9"	4'-5"	7'-3 <sup>5</sup> / <sub>8</sub> "	10'-4"	43'-9 <sup>5</sup> / <sub>8</sub> "	19.8	58'-0 <sup>5</sup> / <sub>8</sub> "	26.6



**END VIEW**



**SECTION A-A**



**PLAN**

Pay Limits for Precast Concrete Box Culverts  
Pay Limits for Box Culvert End Sections

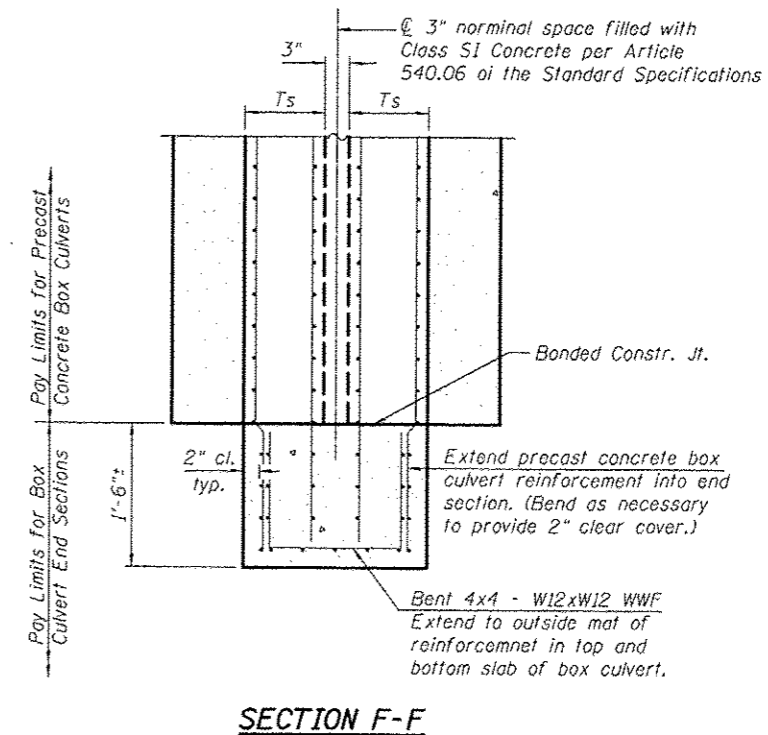
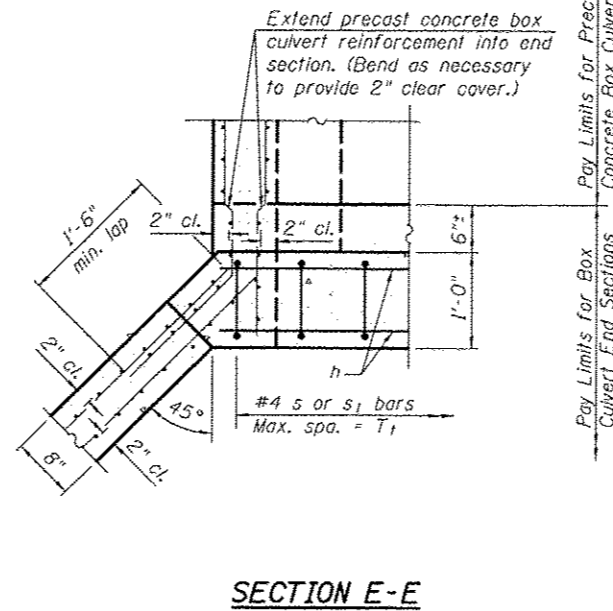
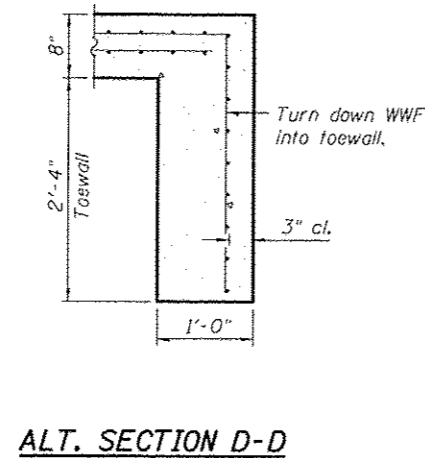
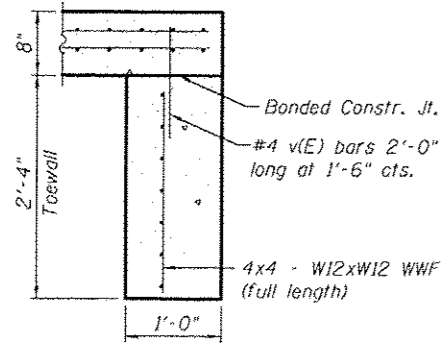
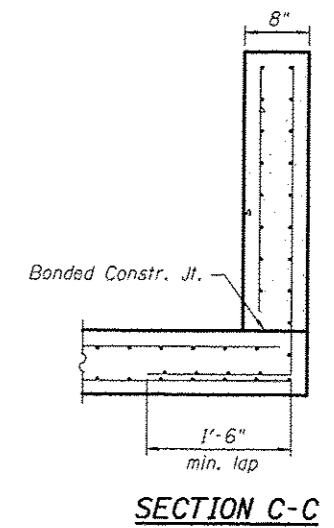
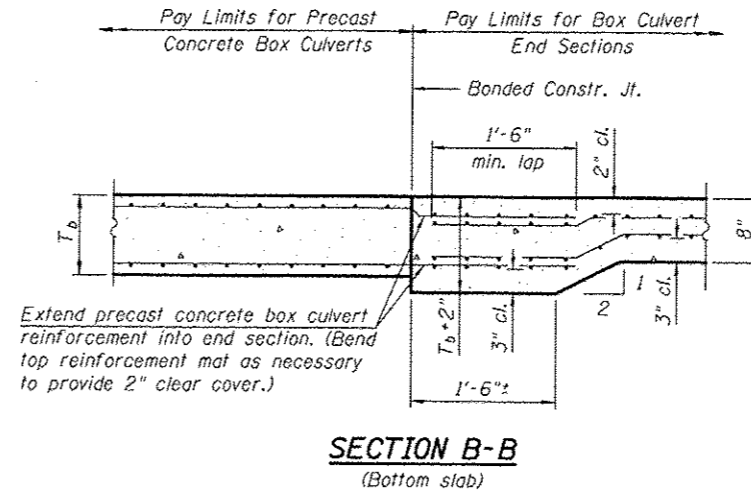
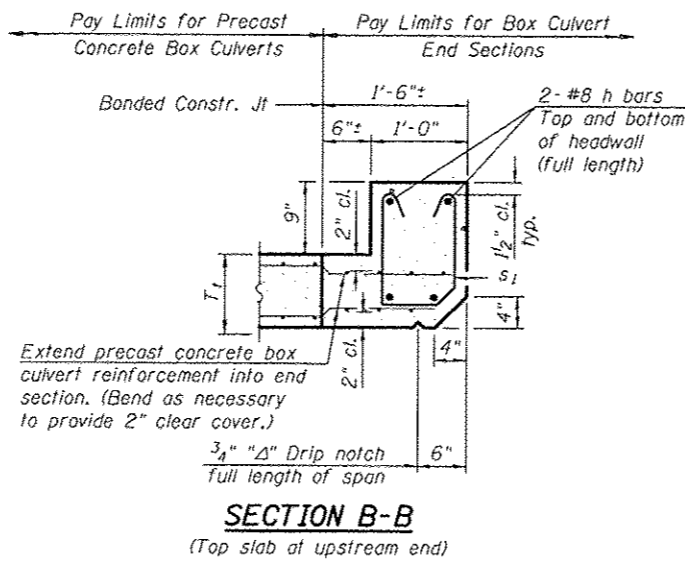
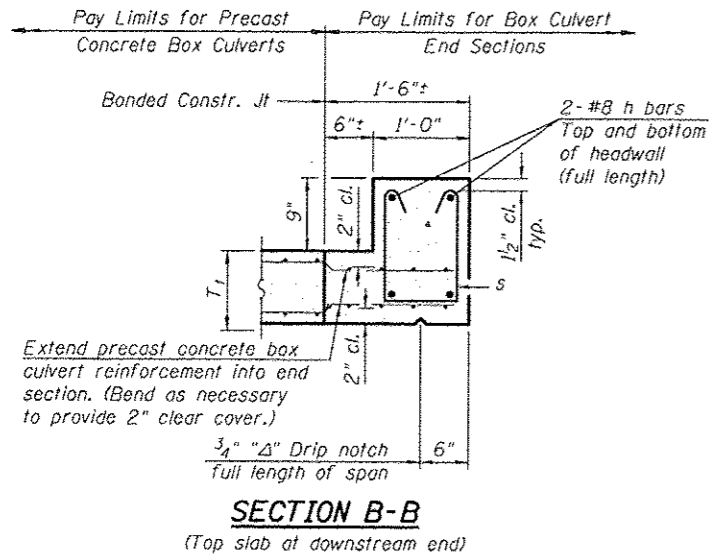
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		CHECKED :	REVISED :

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MULTI-CELL PRECAST CONCRETE BOX CULVERT  
APRON END SECTION DETAILS**

SHEET NO. 3 OF 5 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	12X, 31RS-3 & 2RS-4	Champaign	551	189
	F.A.U. 7152 & F.A.S. 1512		CONTRACT NO. 70663	
ILLINOIS FED. AID PROJECT				

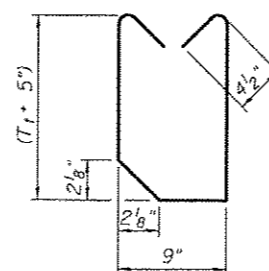
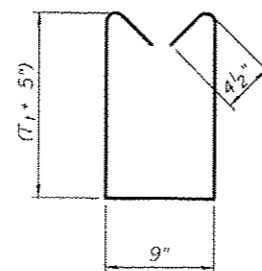


**TOEWALL CONSTRUCTION SEQUENCE**

1. Perform excavation and construct toewall.
2. Backfill accordingly and prepare bedding for box culvert end sections.
3. Construct remainder of box culvert end section.

**Note:**

If soil conditions permit, the toewall may be poured monolithically with the bottom slab of the end section using Alt. Section D-D subject to approval from the Engineer.



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		CHECKED: -	REVISED: -			• (2X,3)RS-3 & 2RS-4	Champaign	551	190	
		DRAWN: -	REVISED: -			• F.A.U. 7152 & F.A.S. 1512	CONTRACT NO. 70663			
		CHECKED: -	REVISED: -			ILLINOIS FED. AID PROJECT				



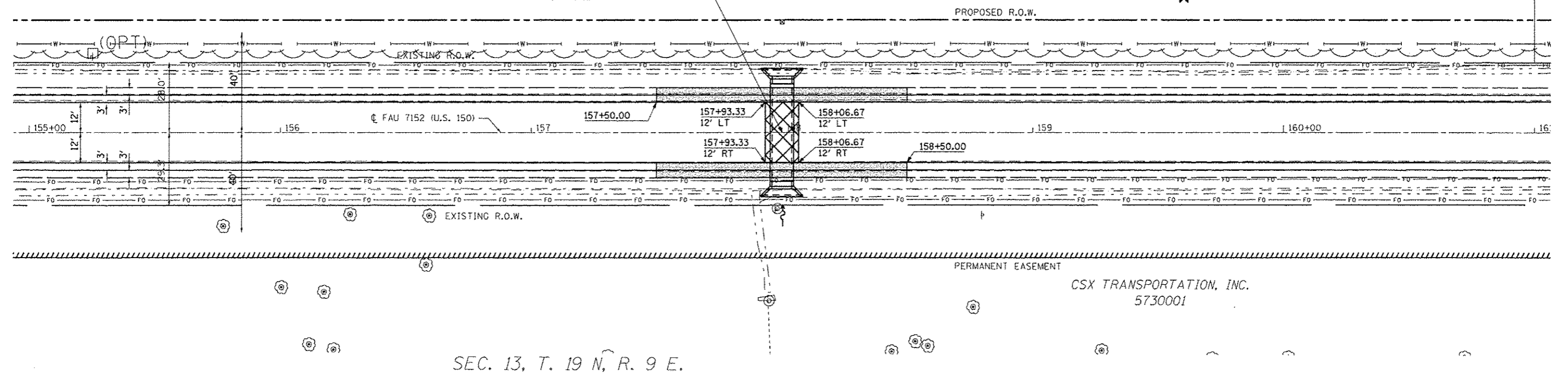
SEC. 12, T. 19 N, R. 9 E.



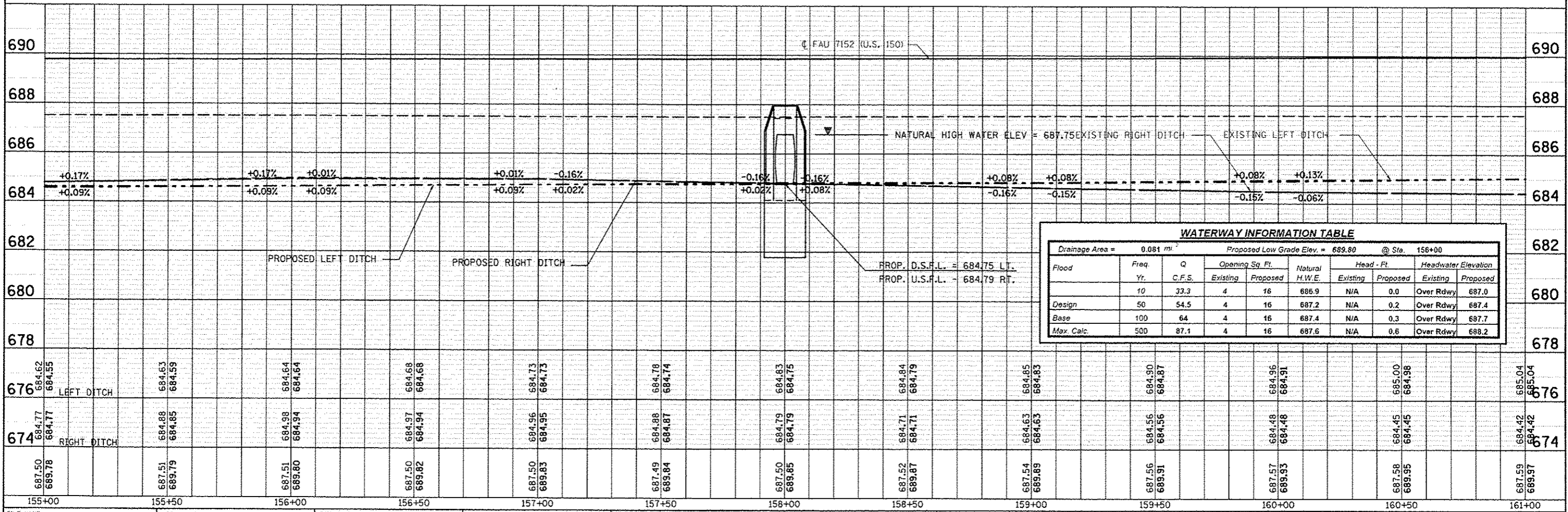
CLASS D PATCH, TYPE IV, 8"  
 AGG WEDGE SHOULDERS, TYPE B

158+00.00 PROP. S.N. 010-8159  
 P.C.C. BOX CULVERT (SPECIAL)  
 1 @ 8' X 2' X 5'  
 U.S.F.L. 25.5' RT, 158+00.00, ELEV. = 684.79  
 D.S.F.L. 25.5' LT, 158+00.00, ELEV. = 684.75  
 BOX CULVERT END SECTION, CULVERT NO. 5 = 2 EA.

30-21-12-300-004  
 SMITH, FRED J.  
 SMITH, PATRICIA D.  
 5730005



SEC. 13, T. 19 N, R. 9 E.



Drainage Area = 0.081 mi <sup>2</sup>		Proposed Low Grade Elev. = 689.80 @ Sta. 156+00						
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.	Natural H.W.E.	Head - Ft. Existing	Head - Ft. Proposed	Headwater Elevation Existing	Headwater Elevation Proposed
Design	10	33.3	4 16	685.9	N/A	0.0	Over Rdwy 687.0	687.0
Design	50	54.5	4 16	687.2	N/A	0.2	Over Rdwy 687.4	687.4
Base	100	64	4 16	687.4	N/A	0.3	Over Rdwy 687.7	687.7
Max. Calc.	500	87.1	4 16	687.6	N/A	0.6	Over Rdwy 688.2	688.2

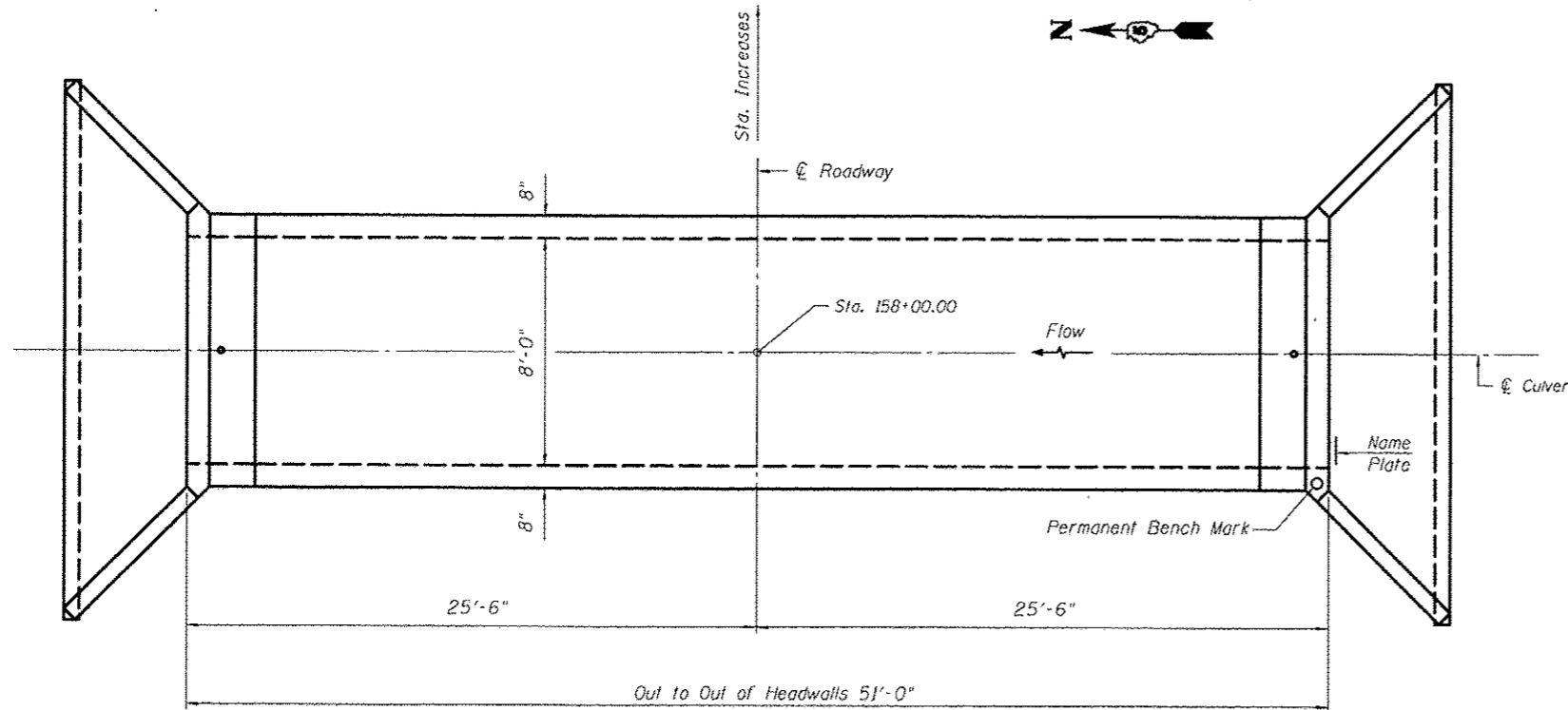
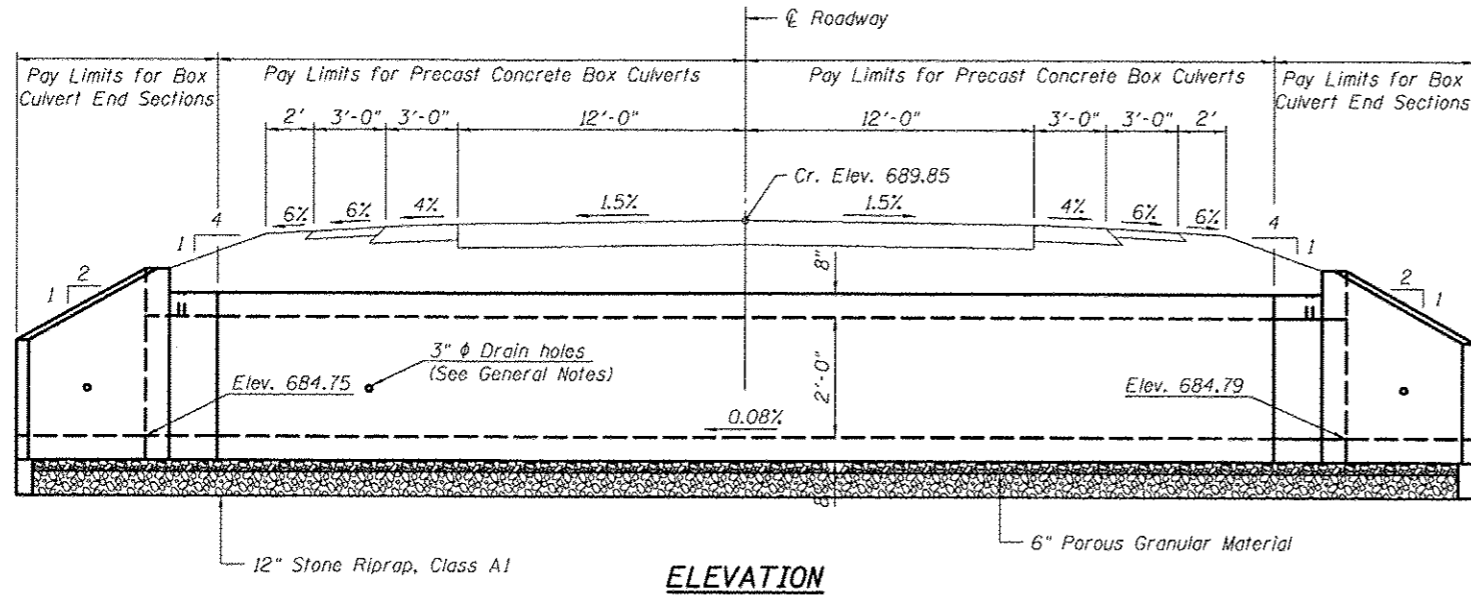
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 ST. OF WAY CHECKED  
 NO. FILE NAME

DATE  
 BY  
 CHECKED  
 GRADES CHECKED  
 ST. OF WAY CHECKED  
 NO. FILE NAME



Benchmark: 685.10 Iron pin with cap on the right side of US 150

Existing Structure: 2'x2' cast-in-place box culvert with concrete headwalls at Sta. 164+10.36 to be capped and filled with CLSM.



**WATERWAY INFORMATION**

Drainage Area = 0.081 sq. mi. Low Grade Elev. 689.80 @ Sta. 156+00.00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
	10	33.3	4	14	686.9	N/A	0.0	Over	687.0
Design	50	54.5	4	16	687.2	N/A	0.2	Over	687.4
Base	100	64	4	16	687.4	N/A	0.3	Over	687.7
Overtopping									
Max. Calc.	500	87.1	4	16	687.6	N/A	0.6	Over	688.2

**DESIGN SCOUR ELEVATION TABLE**

Design Scour Elevation (ft.)	Upstream	Downstream
	681.75	681.79

**INDEX OF SHEETS**

1. Plan & Profile Sheet
2. General Plan and Elevation
- 3-4. Precast Concrete Box Culvert Apron End Section Details
5. Porous Granular Embankment Details

**GENERAL NOTES**

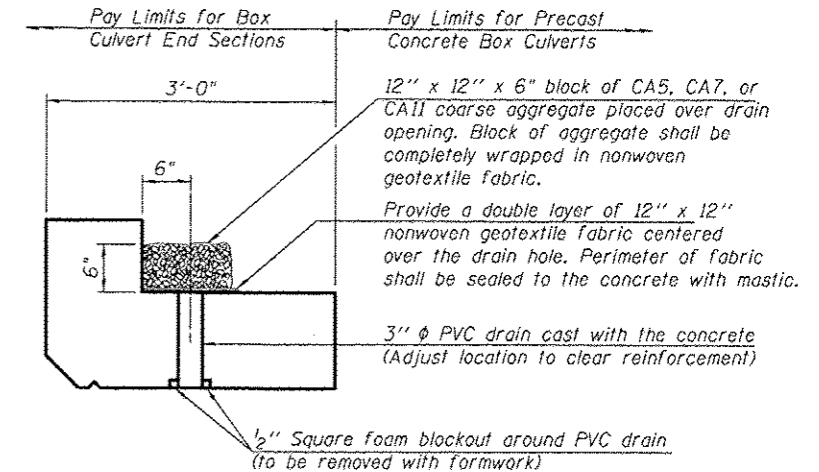
The design fill height for this box is > 2 feet. The precast box culvert sections shall conform to the requirements of AASHTO C 1577.

Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specification.

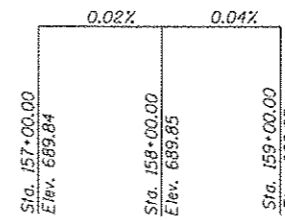
The 6 in. thick layer of porous granular material required for the precast concrete box culvert per Art. 540.06 of the Standard Specifications shall also apply to the end sections. Cost of the porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.

Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.

All exposed edges shall be chamfered 3/4" per article 503.06 of the Standard Specifications.



(All costs associated with furnishing and constructing the above drain details will not be measured for payment but shall be included in the contract unit price for the end section.)



**DESIGN SPECIFICATIONS**

2012 AASHTO LRFD Bridge Design Specifications  
6th Edition

**LOADING HL-93**

**DESIGN STRESSES**

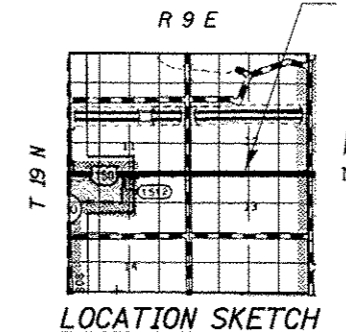
**PRECAST UNITS**

$f'_c$  = 5,000 psi  
 $f_y$  = 65,000 psi (Welded Wire Fabric)

PROP. S.N. 010-8159  
STA. 158+00.00

STATION 158+00.00  
BUILT 2014 BY  
STATE OF ILLINOIS  
F.A.S. 1512 RT. US 150  
SEC. (2X,3)RS-3 & 2RS-4  
LOADING HL-93  
STR. NO. 010-8159

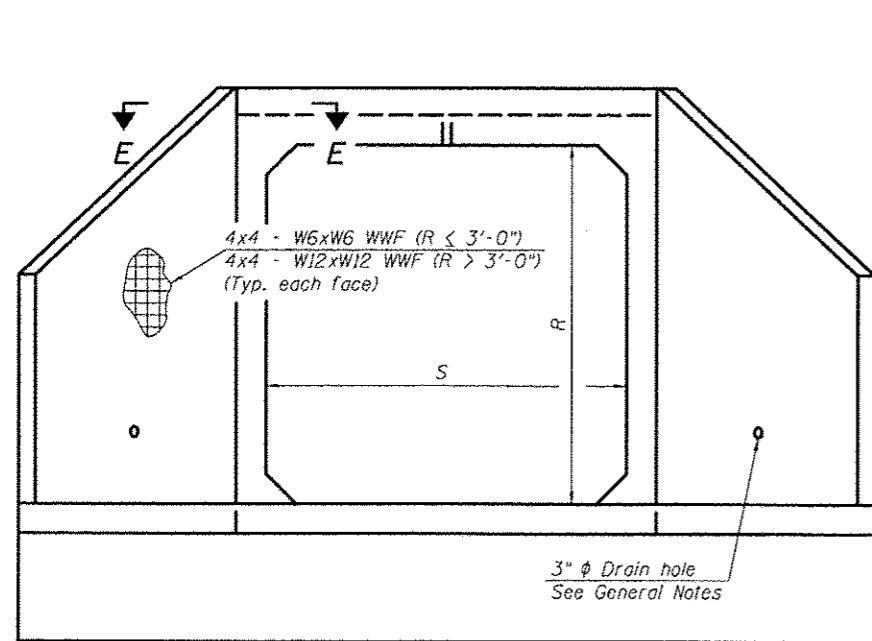
**NAME PLATE**  
See Std. 515001



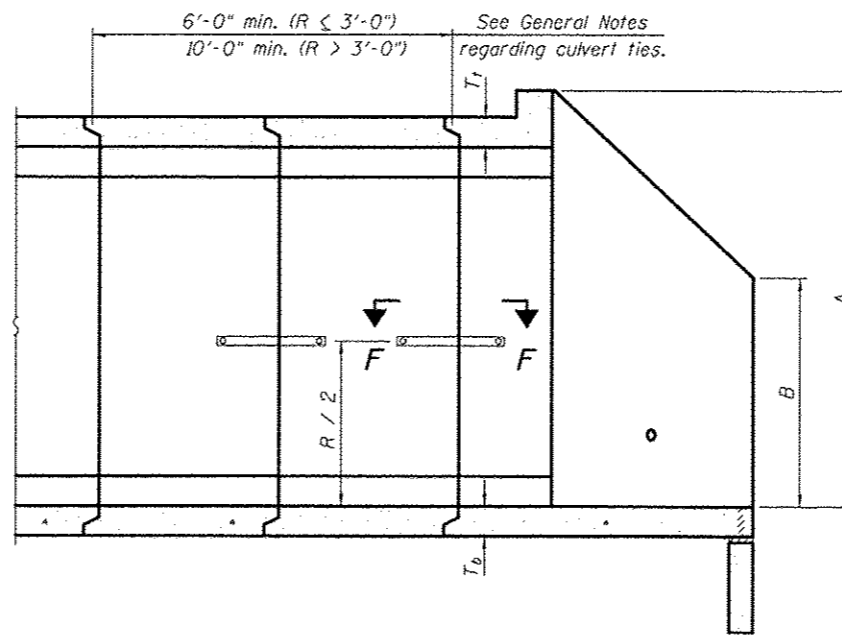
**GENERAL PLAN AND ELEVATION  
SINGLE 8'x2' PRECAST BOX CULVERT  
F.A.S. ROUTE 1512 (US 150)  
SECTION (2X,3)RS-3 & 2RS-4  
CHAMPAIGN COUNTY  
STATION 158+00.00, S.N. 010-8159  
CULVERT NO. 5**

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Name Plates	Each	1.0
Box Culvert End Sections, Culvert No. 5	Each	2.0
Precast Concrete Box Culverts, 8x2	Foot	15.0
Permanent Bench Marks	Each	1.0
Stone Riprap, Class A1	Sq. Yd.	102.3
Porous Granular Embankment	Cu. Yd.	52.1



END VIEW



SECTION A-A

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections.

The Contractor may furnish the end section as a single precast concrete piece or construct the end section in the field using cast-in-place (CIP) construction. For CIP construction, the bottom slab thickness shall be increased by 2" and the clear cover to the bottom mat of reinforcement shall be increased to 3".

Box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements for ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

The number of culvert ties shall be sufficient to engage the minimum length of culvert barrel shown within the pay limits for Precast Concrete Box Culverts and will be dependent upon the length of box culvert segments furnished by the Contractor. Culvert ties are not required for box culverts having a rise (R) less than or equal to 3 ft and a span (S) greater than or equal to 10 ft.

All costs associated with furnishing and installing or constructing the toewall and culvert ties will not be measured for payment but shall be included in the unit price for Box Culvert End Sections of the culvert number specified.

Shop drawings that detail slab thickness and reinforcement layout for the Box Culvert End Sections shall be provided to the Engineer for review and approval. Reinforcement bars not detailed herein shall be detailed with a clear distance at the end of the reinforcement not less than 1/2" nor more than 2". For the precast option, it shall be the Contractor's responsibility for determining a method of handling and a construction procedure shall be included on the shop drawings. The Contractor shall determine and detail in the shop drawings any necessary strengthening or stiffening provisions necessary to handle the precast segment. Any required modifications shall be at no extra charge.

The Contractor may use reinforcement bars in lieu of welded wire fabric (WWF). Reinforcement bars shall be limited to the sizes of #3 through #5 bars, a maximum spacing of the lesser of 8" or the member thickness, and shall result in area of reinforcement equal to or greater than that provided by the WWF. Minimum lap lengths detailed herein are applicable to WWF and reinforcement bars.

Reinforcement (circumferential and longitudinal) in the culvert barrel portion of the end section shall not be less than that required by ASTM C 1577 for the design fill height or the reinforcement detailed for the end section, whichever is greater.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. Reinforcement bars designated (E) shall be epoxy coated. Bonded construction joints shall be prepared according to Article 503.09 of the Standard Specifications.

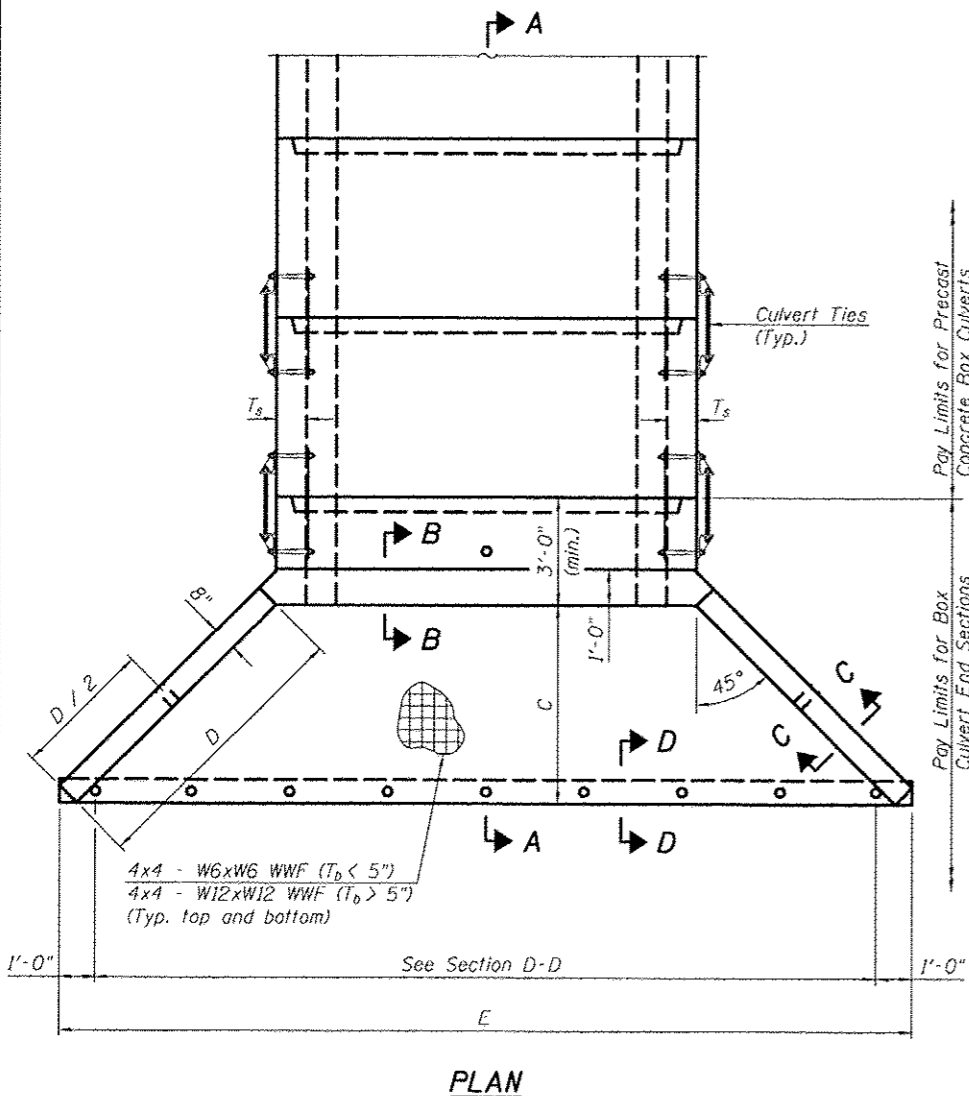
One drain hole shall be provided in each wingwall for end sections of box culverts having an opening with a clear rise greater than 3 ft. The drain hole shall be located within the lower 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.

APRON END SECTION DIMENSIONS

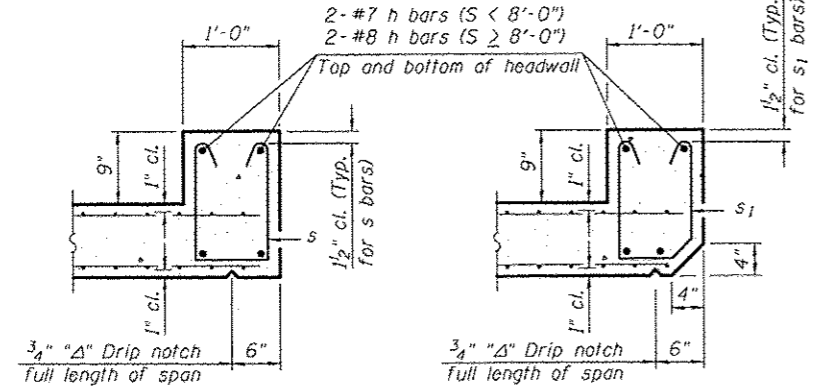
Span (S)	Rise (R)	T <sub>1</sub>	T <sub>b</sub>	T <sub>s</sub>	A	B	C	D	E	Concrete Cu. Yd.	Culvert Ties Required
3'-0"	2'-0"	7"	6"	4"	3'-4"	2'-2"	2'-10 <sup>5</sup> / <sub>8</sub> "	4'-1"	10'-4 <sup>5</sup> / <sub>8</sub> "	2.8	Yes
3'-0"	2'-0"	4"	4"	4"	3'-1"	2'-1"	2'-7 <sup>7</sup> / <sub>8</sub> "	3'-9"	9'-11"	2.3	Yes
3'-0"	3'-0"	7"	6"	4"	4'-4"	2'-8"	3'-10 <sup>5</sup> / <sub>8</sub> "	5'-6"	12'-4 <sup>5</sup> / <sub>8</sub> "	3.7	Yes
3'-0"	3'-0"	4"	4"	4"	4'-1"	2'-7"	3'-7 <sup>7</sup> / <sub>8</sub> "	5'-2"	11'-11"	3.1	Yes
4'-0"	2'-0"	7.5"	6"	5"	3'-4 <sup>1</sup> / <sub>2</sub> "	2'-2 <sup>1</sup> / <sub>2</sub> "	2'-11 <sup>3</sup> / <sub>8</sub> "	4'-2"	11'-8"	3.3	Yes
4'-0"	2'-0"	5"	5"	5"	3'-2"	2'-1"	2'-8 <sup>1</sup> / <sub>2</sub> "	3'-10"	11'-2 <sup>3</sup> / <sub>8</sub> "	2.8	Yes
4'-0"	3'-0"	7.5"	6"	5"	4'-4 <sup>1</sup> / <sub>2</sub> "	2'-8 <sup>1</sup> / <sub>2</sub> "	3'-11 <sup>3</sup> / <sub>8</sub> "	5'-7"	13'-8 <sup>1</sup> / <sub>8</sub> "	4.2	Yes
4'-0"	3'-0"	5"	5"	5"	4'-2"	2'-7"	3'-8 <sup>1</sup> / <sub>2</sub> "	5'-3"	13'-2 <sup>3</sup> / <sub>8</sub> "	3.7	Yes
4'-0"	4'-0"	7.5"	6"	5"	5'-4 <sup>1</sup> / <sub>2</sub> "	3'-2 <sup>1</sup> / <sub>2</sub> "	4'-11 <sup>3</sup> / <sub>8</sub> "	7'-0"	15'-8 <sup>1</sup> / <sub>8</sub> "	5.3	Yes
4'-0"	4'-0"	5"	5"	5"	5'-2"	3'-1"	4'-8 <sup>5</sup> / <sub>8</sub> "	6'-8"	15'-2 <sup>1</sup> / <sub>2</sub> "	4.7	Yes
5'-0"	2'-0"	8"	7"	6"	3'-5"	2'-3"	2'-11 <sup>3</sup> / <sub>8</sub> "	4'-2"	12'-10"	3.9	Yes
5'-0"	2'-0"	6"	6"	6"	3'-3"	2'-2"	2'-10"	4'-0"	12'-7 <sup>1</sup> / <sub>4</sub> "	3.5	Yes
5'-0"	3'-0"	8"	7"	6"	4'-5"	2'-9"	3'-11 <sup>3</sup> / <sub>8</sub> "	5'-7"	14'-10 <sup>1</sup> / <sub>8</sub> "	4.9	Yes
5'-0"	3'-0"	6"	6"	6"	4'-3"	2'-8"	3'-10"	5'-5"	14'-7 <sup>1</sup> / <sub>4</sub> "	4.5	Yes
5'-0"	4'-0"	8"	7"	6"	5'-5"	3'-3"	4'-11 <sup>3</sup> / <sub>8</sub> "	7'-0"	16'-10 <sup>1</sup> / <sub>8</sub> "	6.1	Yes
5'-0"	4'-0"	6"	6"	6"	5'-3"	3'-2"	4'-9 <sup>1</sup> / <sub>4</sub> "	6'-9"	16'-5 <sup>1</sup> / <sub>8</sub> "	5.5	Yes
5'-0"	5'-0"	8"	7"	6"	6'-5"	3'-9"	5'-11 <sup>3</sup> / <sub>8</sub> "	8'-5"	18'-10 <sup>1</sup> / <sub>8</sub> "	7.4	Yes
5'-0"	5'-0"	6"	6"	6"	6'-3"	3'-8"	5'-9 <sup>1</sup> / <sub>4</sub> "	8'-2"	18'-5 <sup>1</sup> / <sub>8</sub> "	6.8	Yes
6'-0"	2'-0"	8"	7"	7"	3'-5"	2'-3"	2'-11 <sup>3</sup> / <sub>8</sub> "	4'-2"	14'-0"	4.3	Yes
6'-0"	2'-0"	7"	7"	7"	3'-4"	2'-2"	2'-10 <sup>5</sup> / <sub>8</sub> "	4'-1"	13'-10 <sup>5</sup> / <sub>8</sub> "	4.2	Yes
6'-0"	3'-0"	8"	7"	7"	4'-5"	2'-9"	3'-11 <sup>3</sup> / <sub>8</sub> "	5'-7"	16'-0 <sup>1</sup> / <sub>8</sub> "	5.4	Yes
6'-0"	3'-0"	7"	7"	7"	4'-4"	2'-8"	3'-10 <sup>5</sup> / <sub>8</sub> "	5'-6"	15'-10 <sup>5</sup> / <sub>8</sub> "	5.2	Yes
6'-0"	4'-0"	8"	7"	7"	5'-5"	3'-3"	4'-11 <sup>3</sup> / <sub>8</sub> "	7'-0"	18'-0 <sup>1</sup> / <sub>8</sub> "	6.5	Yes
6'-0"	4'-0"	7"	7"	7"	5'-4"	3'-2"	4'-10 <sup>3</sup> / <sub>4</sub> "	6'-11"	17'-10 <sup>3</sup> / <sub>4</sub> "	6.5	Yes
6'-0"	5'-0"	8"	7"	7"	6'-5"	3'-9"	5'-11 <sup>3</sup> / <sub>8</sub> "	8'-5"	20'-0 <sup>1</sup> / <sub>8</sub> "	8.0	Yes
6'-0"	5'-0"	7"	7"	7"	6'-4"	3'-8"	5'-10 <sup>3</sup> / <sub>4</sub> "	8'-4"	19'-10 <sup>3</sup> / <sub>4</sub> "	7.8	Yes
6'-0"	6'-0"	8"	7"	7"	7'-5"	4'-3"	6'-11 <sup>1</sup> / <sub>2</sub> "	9'-10"	22'-0 <sup>1</sup> / <sub>4</sub> "	9.5	Yes
6'-0"	6'-0"	7"	7"	7"	7'-4"	4'-2"	6'-10 <sup>3</sup> / <sub>4</sub> "	9'-9"	21'-10 <sup>3</sup> / <sub>4</sub> "	9.3	Yes
7'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 <sup>3</sup> / <sub>8</sub> "	7'-0"	19'-2 <sup>1</sup> / <sub>8</sub> "	7.4	Yes
7'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 <sup>3</sup> / <sub>8</sub> "	8'-5"	21'-2 <sup>1</sup> / <sub>8</sub> "	8.9	Yes
7'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11 <sup>1</sup> / <sub>2</sub> "	9'-10"	23'-2 <sup>1</sup> / <sub>4</sub> "	10.6	Yes
8'-0"	2'-0"	8"	8"	8"	3'-5"	2'-3"	2'-11 <sup>3</sup> / <sub>8</sub> "	4'-2"	16'-2"	5.3	Yes
8'-0"	3'-0"	8"	8"	8"	4'-5"	2'-9"	3'-11 <sup>3</sup> / <sub>8</sub> "	5'-7"	18'-2 <sup>1</sup> / <sub>8</sub> "	6.5	Yes
8'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 <sup>3</sup> / <sub>8</sub> "	7'-0"	20'-2 <sup>1</sup> / <sub>8</sub> "	7.8	Yes
8'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 <sup>3</sup> / <sub>8</sub> "	8'-5"	22'-2 <sup>1</sup> / <sub>8</sub> "	9.3	Yes
8'-0"	6'-0"	8"	8"	8"	7'-5"	4'-3"	6'-11 <sup>1</sup> / <sub>2</sub> "	9'-10"	24'-2 <sup>1</sup> / <sub>4</sub> "	11.0	Yes
9'-0"	5'-0"	9"	9"	9"	6'-6"	3'-9"	6'-0 <sup>7</sup> / <sub>8</sub> "	8'-7"	23'-7"	10.6	Yes
9'-0"	6'-0"	9"	9"	9"	7'-6"	4'-3"	7'-0 <sup>7</sup> / <sub>8</sub> "	9'-11"	25'-5 <sup>5</sup> / <sub>8</sub> "	12.4	Yes
10'-0"	2'-0"	10"	10"	10"	3'-7"	2'-4"	3'-1 <sup>1</sup> / <sub>2</sub> "	4'-5"	18'-10 <sup>1</sup> / <sub>4</sub> "	7.1	No
10'-0"	3'-0"	10"	10"	10"	4'-7"	2'-10"	4'-1 <sup>1</sup> / <sub>2</sub> "	5'-10"	20'-10 <sup>1</sup> / <sub>4</sub> "	8.6	No
10'-0"	5'-0"	10"	10"	10"	6'-7"	3'-10"	6'-1 <sup>1</sup> / <sub>2</sub> "	8'-8"	24'-10 <sup>3</sup> / <sub>8</sub> "	12.0	Yes
10'-0"	6'-0"	10"	10"	10"	7'-7"	4'-4"	7'-1 <sup>1</sup> / <sub>2</sub> "	10'-1"	26'-10 <sup>3</sup> / <sub>8</sub> "	13.9	Yes
11'-0"	4'-0"	11"	11"	11"	5'-8"	3'-4"	5'-2 <sup>1</sup> / <sub>4</sub> "	7'-4"	24'-1 <sup>3</sup> / <sub>4</sub> "	11.5	Yes
11'-0"	6'-0"	11"	11"	11"	7'-8"	4'-4"	7'-2 <sup>1</sup> / <sub>4</sub> "	10'-2"	28'-1 <sup>7</sup> / <sub>8</sub> "	15.5	Yes
12'-0"	2'-0"	12"	12"	12"	3'-9"	2'-5"	3'-3 <sup>5</sup> / <sub>8</sub> "	4'-8"	21'-6 <sup>1</sup> / <sub>2</sub> "	9.3	No
12'-0"	3'-0"	12"	12"	12"	4'-9"	2'-11"	4'-3 <sup>5</sup> / <sub>8</sub> "	6'-1"	23'-6 <sup>1</sup> / <sub>2</sub> "	11.1	No
12'-0"	4'-0"	12"	12"	12"	5'-9"	3'-5"	5'-3 <sup>5</sup> / <sub>8</sub> "	7'-6"	25'-6 <sup>5</sup> / <sub>8</sub> "	13.0	Yes
12'-0"	6'-0"	12"	12"	12"	7'-9"	4'-5"	7'-3 <sup>5</sup> / <sub>8</sub> "	10'-4"	29'-6 <sup>5</sup> / <sub>8</sub> "	17.4	Yes

Note:

Two sets of apron end section dimensions are shown above for some box culvert sizes due to the top and bottom slabs having different thicknesses per ASTM C 1577 for design fill heights less than 2 ft.

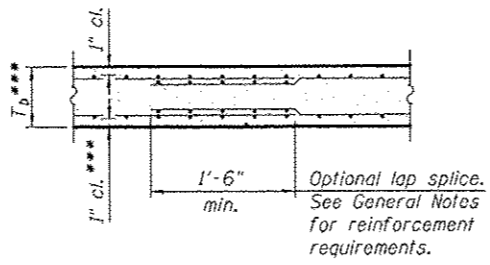


PLAN



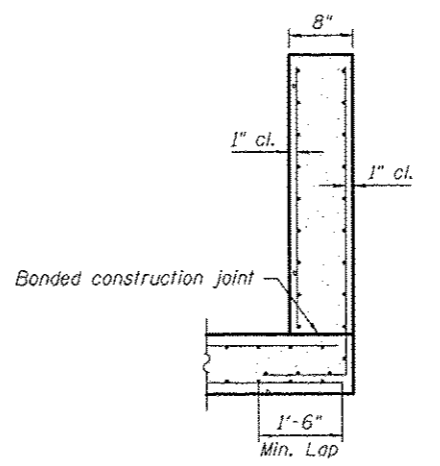
**SECTION B-B**  
(Top slab at downstream end)

**SECTION B-B**  
(Top slab at upstream end)

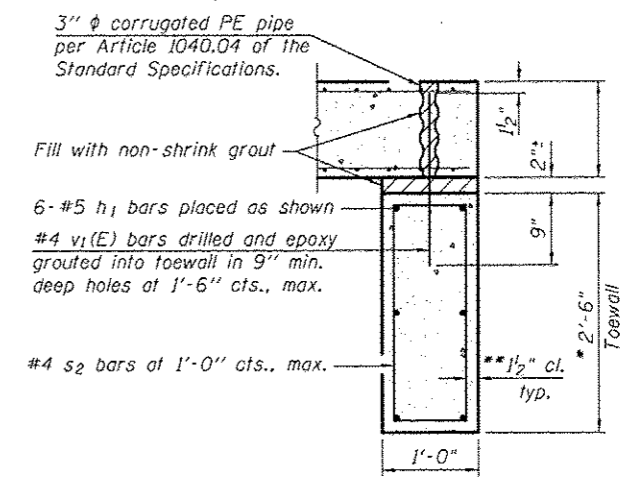


**SECTION B-B**  
(Bottom Slab)

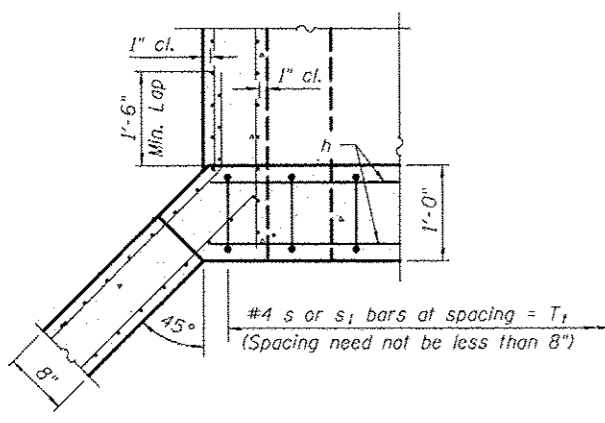
\*\*\* This dimension shall be increased by 2" for CIP construction.



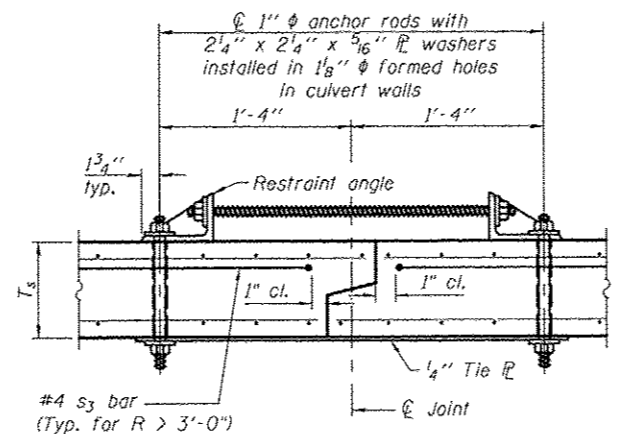
**SECTION C-C**



**SECTION D-D**



**SECTION E-E**



**SECTION F-F**  
(Showing culvert tie details)

**TOEWALL CONSTRUCTION SEQUENCE**

1. Perform excavation and construct toewall.
2. Backfill accordingly and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.

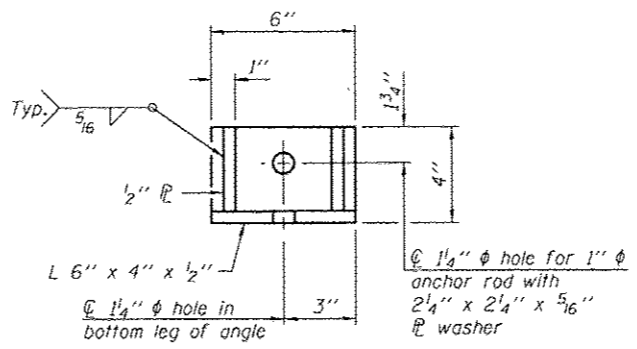
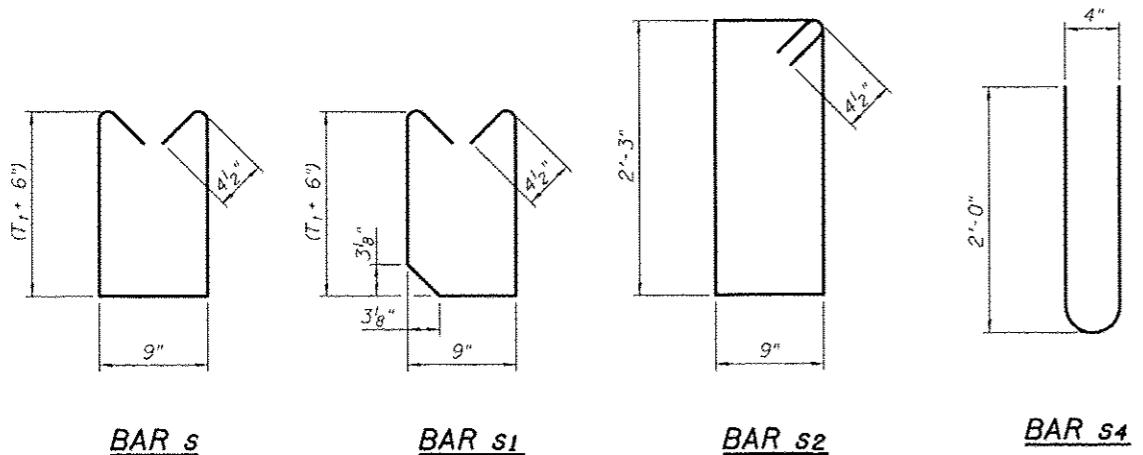
\* The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling method.

\*\* If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.

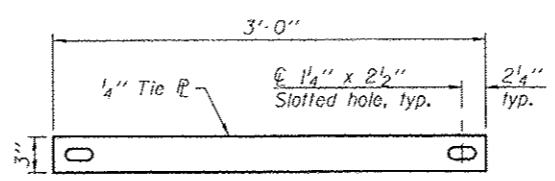
**Notes:**

1" φ anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for the tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2 1/4" x 2 1/4" x 5/16" plate washers shall be provided under each nut required for the anchor rods. Anchor rods installed in the sidewalls of the culvert shall be tightened per Article 505.04(f)(2)(d) of the Standard Specifications. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.

Alternate culvert ties similar in strength and stiffness to the plan details may be provided by the Contractor. Alternate culvert ties shall be subject to the approval of the Engineer.



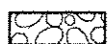


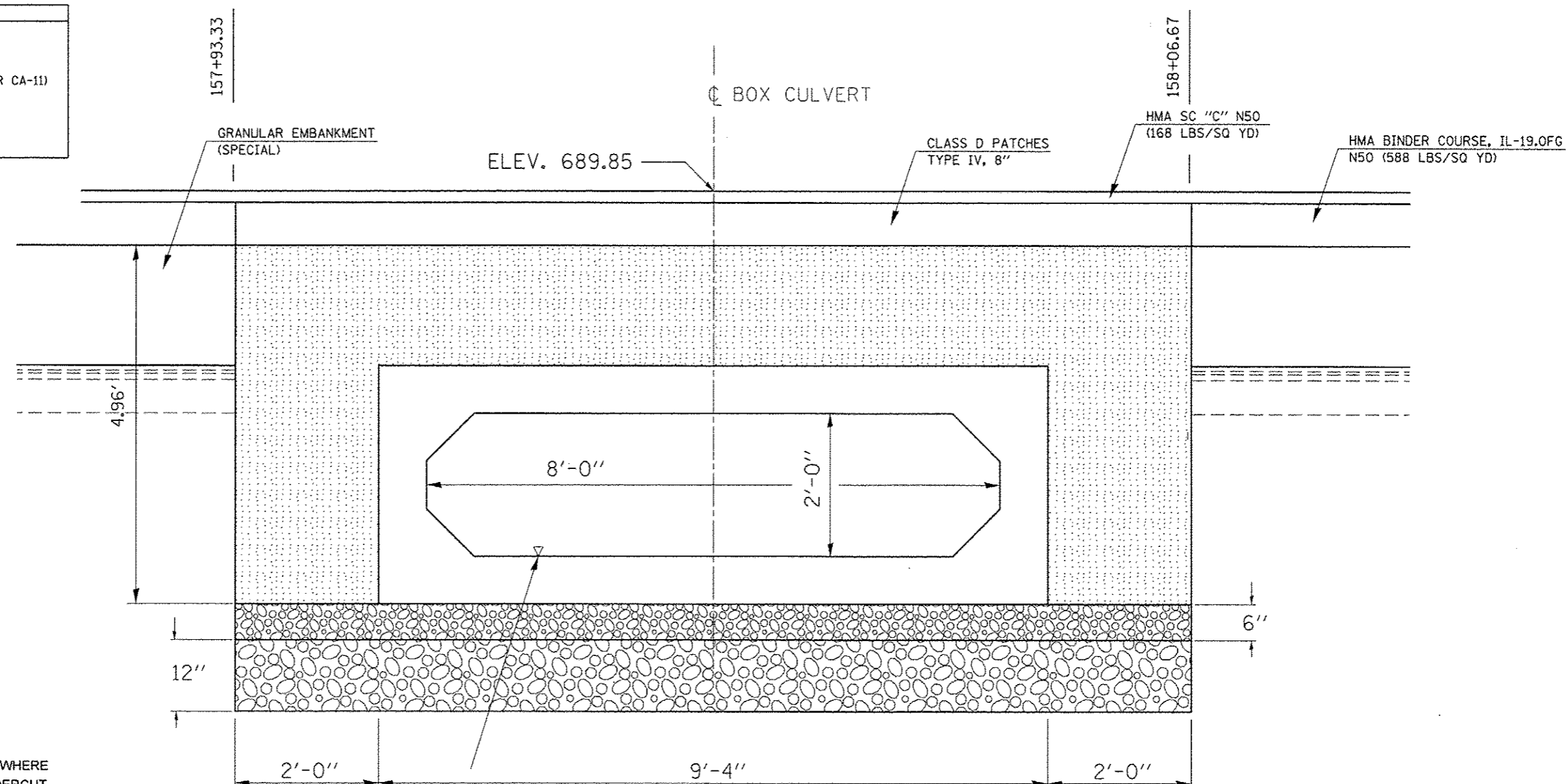
**RESTRAINT ANGLE DETAIL**



**TIE PLATE DETAIL**

FILE NAME =	USER NAME = cearlock_jd	DESIGNED -	REVISED	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PRECAST CONCRETE BOX CULVERT APRON END SECTION DETAILS</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ct:\pvc\work\pvcdo\cearlock_jd\01203161070663-sh-structures.dgn	0663-sh-structures.dgn	CHECKED -	REVISED			• (2X,3)RS-3 & 2RS-4	Champaign	551	195	• F.A.U. 7152 & F.A.S. 1512	CONTRACT NO. 70663
PLOT SCALE = 48.8958 1/16"		DRAWN -	REVISED			SHEET NO. 4 OF 6 SHEETS					
PLOT DATE = 10/18/2013		CHECKED -	REVISED			ILLINOIS FED. AID PROJECT					

LEGEND	
	POROUS GRANULAR EMBANKMENT
	BOX CULVERT BEDDING (CA-7 OR CA-11)
	STONE RIPRAP, CLASS A1



**STONE RIPRAP, CLASS A1**

STONE RIPRAP, CLASS A1 SHALL BE USED WHERE A.R. CULVERTS ARE REQUIRED TO BE UNDERCUT DUE TO UNSTABLE SOIL CONDITIONS.

WORK SHOWN IN THE DETAIL SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE PORTIONS OF SECTION 281 AND SECTION 282 OF THE STANDARD SPECIFICATIONS.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR STONE RIPRAP, CLASS A1. FILTER FABRIC WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED WITH THE PAY ITEM FOR STONE RIPRAP, CLASS A1.

THE EXCAVATION AND REMOVAL OF UNSUITABLE MATERIAL WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED WITH THE PAY ITEM FOR STONE RIPRAP, CLASS A1.

PROPOSED U.S.F.L. = 684.79  
 PROPOSED D.S.F.L. = 684.75

**POROUS GRANULAR EMBANKMENT**

POROUS GRANULAR EMBANKMENT SHALL EXTEND 2 FT. BEYOND THE AGGREGATE SHOULDER

WORK SHOWN IN THE DETAIL SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE PORTIONS OF SECTION 207 AND SECTION 540 OF THE STANDARD SPECIFICATIONS.

POROUS GRANULAR EMBANKMENT SHALL EXTEND 2 FT. BEYOND THE AGGREGATE SHOULDER

WORK SHOWN IN THE DETAIL SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE PORTIONS OF SECTION 207 AND SECTION 540 OF THE STANDARD SPECIFICATIONS.

**BILL OF MATERIAL**

Item	Unit	Total
Porous Granular Embankment	Cu.Yd.	52.1
Stone Riprap, Class A1	Sq.Yd.	102.3

DRAWING NOT TO SCALE.

FILE NAME : c:\pwworkspace\pvidot\cconlock\j\18120316\0478663-shr-structures.dgn	USER NAME : cconlock.j	DESIGNED - JMS	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DETAIL OF POROUS GRANULAR EMBANKMENT</b>			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLT SCALE : 48,0000 / 1	PLT DATE : 18/10/2013	DRAWN - RLA	REVISED -		SCALE: NONE	SHEET NO. 5 OF 6 SHEETS	STA.	TO STA.	(2X,3RS-3 & 2RS-4)	CHAMPAIGN	551	196
		CHECKED -	REVISED -						F.A.U. 7152 & F.A.S. 1512			
		DATE - 080211	REVISED -						ILLINOIS FED. AID PROJECT			





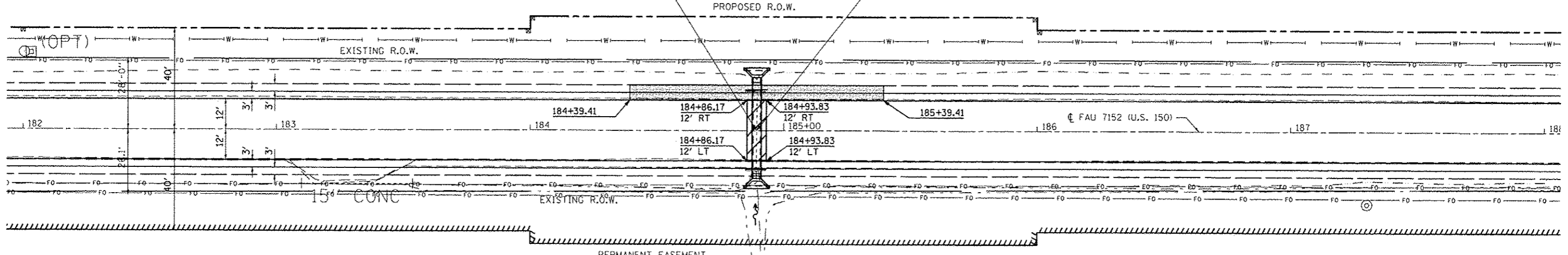
SEC. 12, T. 19 N, R. 9 E.

30-21-12-400-002  
MERRYMAN, SHIRLEY H.  
5730008



184+90.00 PROP. CULVERT REPLACEMENT  
P.C.C. BOX CULVERT  
1 @ 3' X 2' X 44'  
U.S.F.L. 22.5' RT, 184+90.00, ELEV. = 687.93  
D.S.F.L. 22.5' LT, 184+90.00, ELEV. = 687.78  
BOX CULVERT END SECTION, CULVERT NO. 6 = 2 EA.

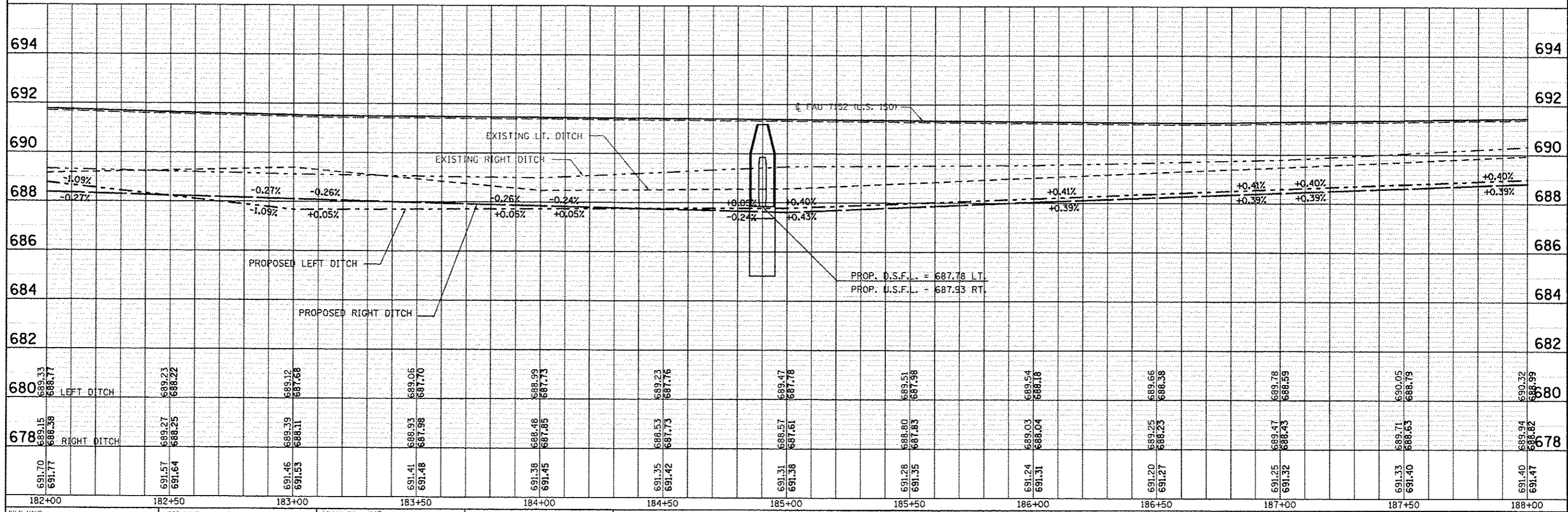
A.R. STATION 184+89.41  
EXISTING CIP BOX 2' X 2'  
REMOVAL OF EXISTING STRUCTURES NO. 5



CLASS D PATCH, TYPE IV, 8"  
 AGG WEDGE SHOULDERS, TYPE B

CSX TRANSPORTATION, INC.  
5730001

SEC. 13, T. 19 N, R. 9 E.



FILE NAME =	USER NAME = ceor-lock_jd	DESIGNED JMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETAIL OF A.R. BOX CULVERT NO. 6 STA. 184 + 90.00	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ce:\pwwork\pwwork\ceor-lock_jd\0120316\0572663-shl-drain.dgn		DRAWN JMS	REVISED -			•	(2X,3)RS-3 & 2RS-4	CHAMPAIGN	551	198
PLOT SCALE = 40.88008' / in.		CHECKED -	REVISED -			• F.A.U. 7152 & F.A.S. 1512				CONTRACT NO. 70663
PLOT DATE = 10/18/2013		DATE 08/16/10	REVISED -			ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
	PLOTTED	
	NOTED	
	NO. OF SHEETS	
	NO. OF PAGES	
	NO. OF FIGURES	
	NO. OF TABLES	
	NO. OF NOTES	
	NO. OF DIMENSIONS	
	NO. OF DIMENSION LINES	
	NO. OF DIMENSION POINTS	
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PROFILE	SURVEYED	DATE
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	NO. OF PAGES	
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