

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS  
**PROPOSED  
 HIGHWAY PLANS**

FAP 317 ROUTE US 24  
 SECTION (18)I

SLOPE REPAIR  
 FULTON COUNTY

C-94-033-11

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(18)I	FULTON	47	1
		ILLINOIS	CONTRACT NO. 68A25	

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HIGHWAY STANDARDS

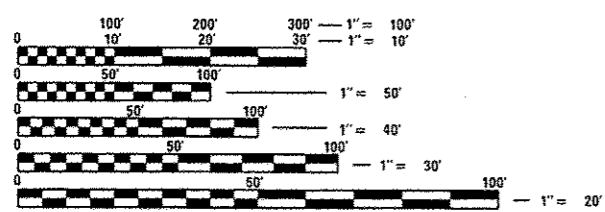
- 000001-06
- 280001-07
- 701201-04
- 701901-02

DISTRICT STANDARDS

280101

DESIGN DESIGNATION:

COUNTY HIGHWAY  
 ADT = 125  
 PV = 100%

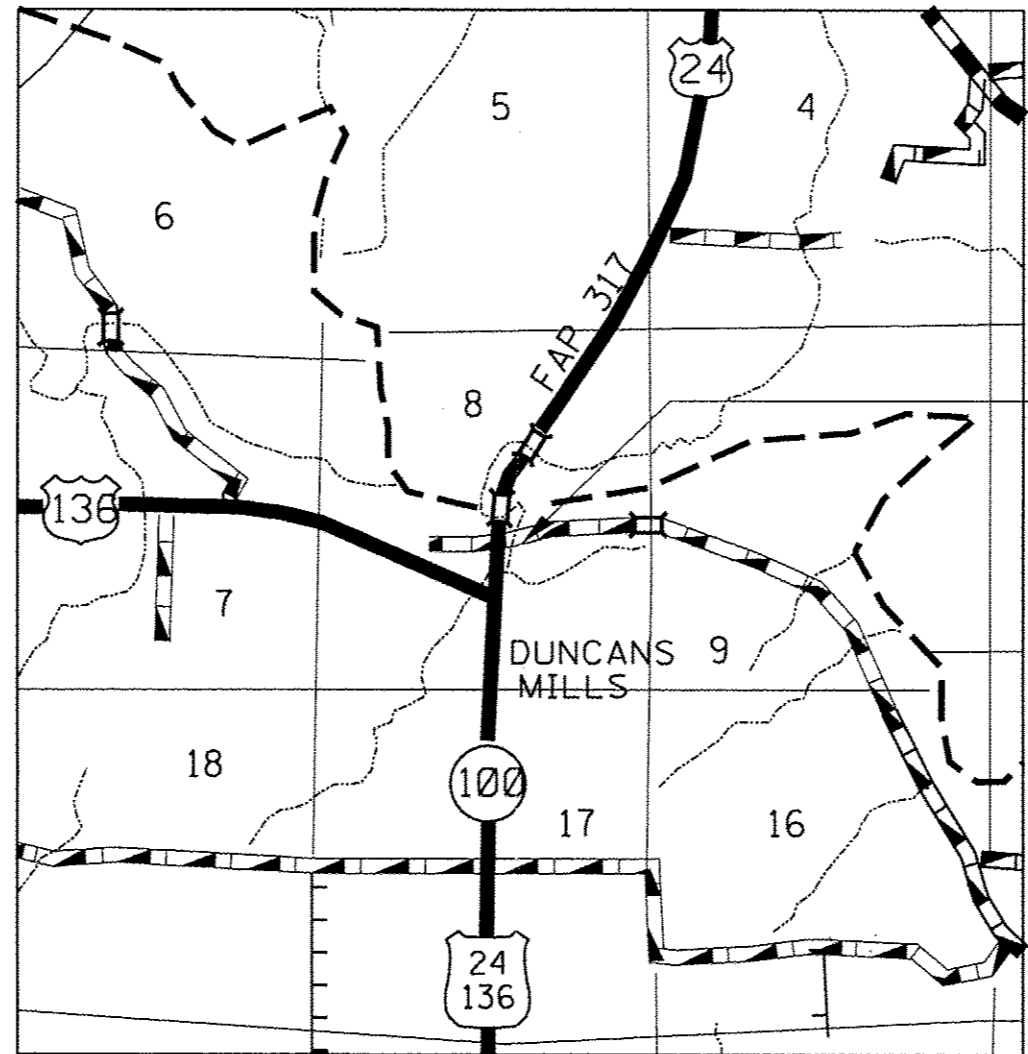


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

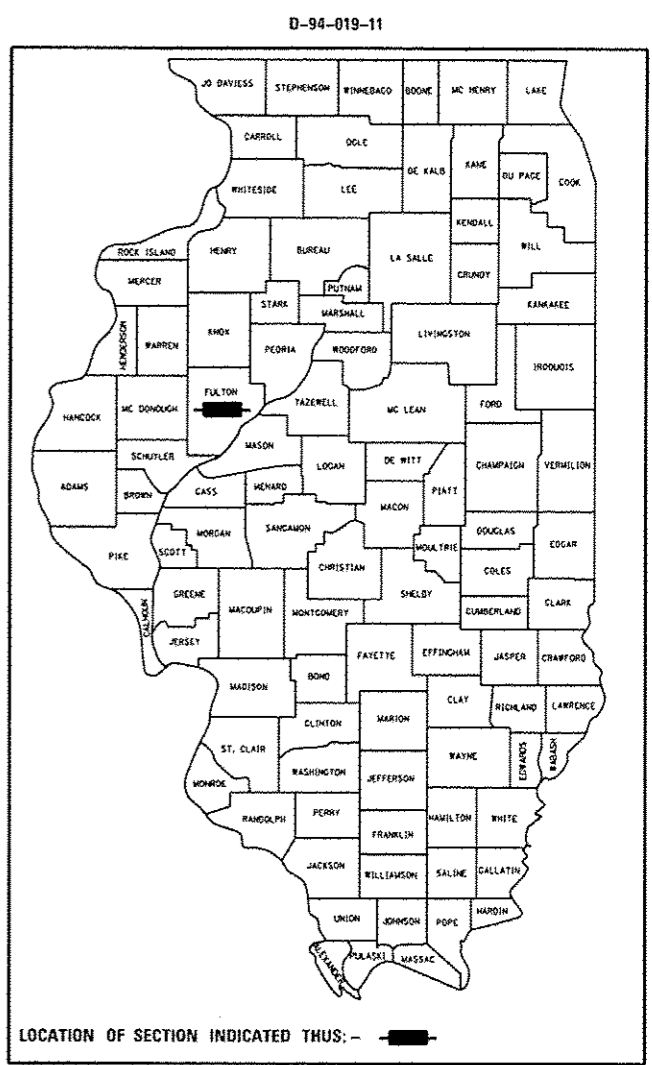
J.U.L.I.E.  
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
 1-800-892-0123  
 OR 811

PROJECT ENGINEER: CHRISTOPHER MAUSHARD 309-671-3453  
 PROJECT MANAGER: SOBHI LABABIDI 309-671-3460

CATALOG NO. 034633-00D  
 CONTRACT NO. 68A25



GROSS LENGTH = 600 FT. = 0.1136 MILE  
 NET LENGTH = 600 FT. = 0.1136 MILE



SLOPE REPAIR ALONG CH 11  
 AT US 24 WEST OF SPOON RIVER,  
 NEAR DUNCAN MILLS

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

SUBMITTED MARCH 20 20 13

Joseph E. Howler  
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 10 20 13  
John D. Baranzelli, P.E.  
 acting ENGINEER OF DESIGN AND ENVIRONMENT

May 10 20 13  
Omer Osman, P.E.  
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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 OF THE STATE OF ILLINOIS

**COMMITMENTS**

Commitments are not to be altered without the written approval of all parties to which the commitment was made.

No commitments have been made for this project

**UTILITIES – LOCATIONS /INFORMATION ON PLANS**

The locations of existing water mains, gas mains, sewers, electric power lines, telephone lines and other utilities as shown on the plans are based on careful field investigation and the best information available, but they are not guaranteed. Unless elevations are shown — all utility locations shown on the cross sections are based on the approximate depth supplied by the utility company. It shall be the Contractor's responsibility to ascertain their exact location from the utility companies and by field inspection.

**PLAN ELEVATIONS – U. S. G. S. MEAN SEA LEVEL DATUM**

All elevations shown on the plans are established from U. S. G. S. mean sea level datum.

**PROPERTY OWNER ACCESS REQUIREMENTS**

Access must be maintained to all existing properties during construction per Article 107.09 unless arrangements are made in writing by the Contractor with the property owners with a copy to the Engineer for short-term closures.

**ENVIRONMENTAL REVIEWS**

Prior to the use of any proposed borrow areas, use areas (temporary access roads, detours, run-arounds, etc.) and/or waste areas, the Contractor shall file the required environmental resource request surveys according to Section 107.22 of the Standard Specifications. These surveys are required in order for the Department to conduct cultural and biological resource surveys for the proposed site.

Prior to any waste materials being removed from the construction site the required

environmental resource surveys will need to be obtained and filed by the Contractor. Excess waste products removed from the construction site shall be disposed of as required in Section 202.03 of the Standard Specifications.

Any protruding metal bars shall be removed prior to the disposal of broken concrete at approved disposal sites.

The required environmental resource documentation shall include the following:

- \* BDE Form 2289 (Environmental Survey Request)
- \* A location map showing the size limits and location of the use area
- \* Signed property owner agreement form-D4 PI0100
- \* Color photographs depicting the use area
- \* Borrow Area Entry Agreement form-D4 PI0101

Please note that a minimum of two weeks shall be allowed for the District to obtain the required environmental clearances.

**SEEDING – SIDE SLOPE RIPPING**

All slopes steeper than 3 to 1 and over 15 ft (4.5 m) in height shall be ripped This shall consist of ripping between 18 inches to 24 inches (450 mm to 600 mm) deep normal to the slope. The interval of ripping along the slope shall be 12 ft. (3.6 m). This work shall be done after the seed bed has been prepared but before any fertilizer or seed has been applied. The fertilizer and seed shall be applied within a 24-hour period after the ripping has been done. This work will not be paid for separately but will be included in the cost of the various items of seeding involved.

**EXISTING DRAINAGE PIPES CONNECTED TO NEW STRUCTURES**

In accordance with Section 602 of the Standard Specifications, the connecting of existing drain tiles, pipe culverts, or storm sewers to the proposed drainage system structures will not be paid for separately but shall be considered as included in the pay items provided.

**ENGINEERS FIELD OFFICE**

Add the following sentence to the end of paragraph 670.02 (i) and 670.04 (e):  
All of the telephone lines provided shall have unpublished numbers.

FILE NAME * Cover_DM_Plan_Erosion_500_sheets.dgn	USER NAME * aubraygs	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>COMMITMENTS /GENERAL NOTES</b>	F.A.P RTE. 317	SECTION (101)	COUNTY FULTON	TOTAL SHEETS 47	SHEET NO. 2
	PLOT SCALE * 50,000' = 1" = 1/4"	DRAWN -	REVISED -			CONTRACT NO. 68A25				
	PLOT DATE * 3/21/2013	CHECKED -	REVISED -			SCALE: SHEET OF SHEETS STA. TO STA.				
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT				

**SCHEDULE OF QUANTITIES**

Specialty_Item	CODE NO	DESCRIPTION	UNIT	TOTAL QUANTITIES	100% STATE 0044 ROADWAY
	20200100	EARTH EXCAVATION	CU YD	8270	8270
	20700110	POROUS GRANULAR EMBANKMENT	TON	8240	8240
	21101615	TOPSOIL FURNISH & PLACE, 4"	SQ YD	10875	10875
	21400100	GRADING AND SHAPING DITCHES	FOOT	100	100
	25000300	SEEDING, CLASS 3	ACRE	2.25	2.25
	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	205	205
	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	205	205
	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	205	205
	25100115	MULCH, METHOD 2	ACRE	2.25	2.25
	25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	7905	7905
	28000305	TEMPORARY DITCH CHECKS	FOOT	125	125
	28000315	AGGREGATE DITCH CHECKS	TON	25	25
	28000400	PERIMETER EROSION BARRIER	FOOT	1000	1000
	28000500	INLET AND PIPE PROTECTION	EACH	1	1
	28100825	STONE DUMPED RIPRAP, CLASS B3	TON	755	755
	60100080	FRENCH DRAINS	CU YD	1600	1600
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	1	1
	67100100	MOBILIZATION	L SUM	1	1
	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
	X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	60	60
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1

FILE NAME :  
Cover-GN\_Plan-Erosion-S00\_sheets.dgn

USER NAME : aubreggs

DESIGNED -  
DRAWN -

REVISED -  
REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P RTE. 317	SECTION (181)	COUNTY FULTON	TOTAL SHEETS 47	SHEET NO. 3
CONTRACT NO. 68A25			ILLINOIS FED. AID PROJECT	

EARTHWORK QUANTITIES										
STATION	LENGTH	EARTH EXCAVATION (+)			EMBANKMENT (-)			EARTHWORK BALANCE SURPLUS (+) SHORTAGE (-) (FOR INFO ONLY)	GRADING & SHAPING DITCHES	TOP SOIL ( 4" )
		(MEASURED AREA TAKEN FROM X-SECS IN CADD)		AVG. VOLUME*	(MEASURED AREA TAKEN FROM X-SECS IN CADD)		AVG. VOLUME			
		RAW	ACTUAL		RAW	ACTUAL				
		SQ FT		CU YD	SQ FT		CU YD			
10+50		0	0.00		0	0.00				
	50			257.44			17.59	239.85	50	308.28
11+00		556.07	278.04		38	19.00				
	50			521.47			87.97	433.50		643.34
11+50		570.31	285.16		152.01	76.01				
	50			563.49			199.34	364.14		696.16
12+00		646.82	323.41		278.57	139.29				
	50			633.75			291.06	342.69		747.92
12+50		722.08	361.04		350.13	175.07				
	50			654.93			338.66	316.26		804.63
13+00		692.56	346.28		381.38	190.69				
	50			632.94			350.35	282.58		850.86
13+50		674.58	337.29		375.38	187.69				
	50			657.41			360.19	297.22		888.20
14+00		745.43	372.72		402.64	201.32				
	50			788.65			460.64	328.01		936.79
14+50		958.06	479.03		592.34	296.17				
	50			942.43			538.35	404.08		980.62
15+00		1077.58	538.79		570.49	285.25				
	50			947.15			411.70	535.44		950.59
15+50		968.26	484.13		318.79	159.40				
	50			1,057.58			275.67	781.91		912.97
16+00		1316.11	658.06		276.65	138.33				
	50			609.31			224.27	385.04		912.41
16+50		95.46	47.73		207.77	103.89				
	50						134.69	-134.69		844.24
17+00		100.33	50.17	0.00	83.17	41.59				
	50						38.50	-38.50	50	393.17
17+50		0	0.00	0.00	0	0.00				
<b>TOTAL</b>				8,270			-3,729	+ 4,538	100	10,875

\* Earth material placed on the slope is not to be compacted; no shrinkage factor is used

FILE NAME : Cover_GN_Plan_Erosion_SDD_sheets.dgn	USER NAME : aubreygs	DESIGNED - DRAWN -	REVISED - REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SCHEDULE OF QUANTITIES</b>				F.A.P. RTE. 317	SECTION (181)	COUNTY FULTON	TOTAL SHEETS 47	SHEET NO. 4
					SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	CONTRACT NO. 68A25	
					ILLINOIS FED. AID PROJECT								

EROSION CONTROL QUANTITIES														
STA.	LENGTH	DISTANCE TO CONST. LIMITS	AREA		SEEDING CLASS 3	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	NITROGEN FERTILIZER NUTRIENT	MULCH, METHOD 2	PERIMETER EROSION BARRIER	TEMP. DITCH CHECK	AGG. DITCH CHECK*	HEAVY DUTY EROSION CONTROL BLANKET	
			SQ YD	ACRE									ACRE	POUND
10+50		0.00								175	25		0.00	
	50		308.28	0.064	0.064	5.73	5.73	5.73	0.064	50				198.47
11+00		110.98										4.97	71.45	
	50		643.34	0.133	0.133	11.96	11.96	11.96	0.133	50				436.06
11+50		120.62											85.53	
	50		696.16	0.144	0.144	12.95	12.95	12.95	0.144	50				507.74
12+00		130.00									25		97.26	
	50		747.92	0.155	0.155	13.91	13.91	13.91	0.155	50				576.02
12+50		139.26										4.97	110.11	
	50		804.63	0.166	0.166	14.96	14.96	14.96	0.166	50				617.33
13+00		150.41											112.13	
	50		850.86	0.176	0.176	15.82	15.82	15.82	0.176	50				633.14
13+50		155.90									25		115.80	
	50		888.20	0.184	0.184	16.52	16.52	16.52	0.184	50				636.08
14+00		163.85										4.97	113.19	
	50		936.79	0.194	0.194	17.42	17.42	17.42	0.194	50				641.40
14+50		173.39											117.71	
	50		980.62	0.203	0.203	18.23	18.23	18.23	0.203	50				657.24
15+00		179.63									25		118.89	
	50		950.59	0.196	0.196	17.68	17.68	17.68	0.196	50				672.55
15+50		162.58										4.97	123.23	
	50		912.97	0.189	0.189	16.98	16.98	16.98	0.189	50				669.53
16+00		166.08											117.80	
	50		912.41	0.189	0.189	16.97	16.97	16.97	0.189	50				659.63
16+50		162.39									25		119.66	
	50		844.24	0.174	0.174	15.70	15.70	15.70	0.174	50				663.89
17+00		141.54								175		4.97	119.34	
	50		393.17	0.081	0.081	7.31	7.31	7.31	0.081					331.50
17+50		0.00											0.00	
<b>TOTAL</b>				2.25	2.25	205	205	205	2.25	1000	125	25		7,905

\* (Estimated aggregate ditch check volume is 3.31 CU YD each placed every 150 feet)

FILE NAME : Cover_GN_Plan_Erosion_S00_sheets.dgn	USER NAME : aubreyga	DESIGNED - DRAWN -	REVISED - REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SCHEDULE OF QUANTITIES</b>				F.A.P. RTE. 317	SECTION (181)	COUNTY FULTON	TOTAL SHEETS 47	SHEET NO. 5
PLOT SCALE : 58.000' = 1" =		CHECKED - DATE -	REVISED - REVISED -						SCALE:	SHEET	OF	SHEETS	STA.

STATION	LENGTH	FRENCH DRAINS		POROUS GRANULAR EMBANKMENT*		STONE DUMPED RIPRAP, CLASS B3**	
		( UPPER DRAIN )		( LOWER DRAIN )		( 12" )	
	FT	SQ. FT	CU YD	SQ. FT	TON	SQ. FT	TON
10+50		0		0		0	
	50		28.75		292.98		27.78
11+00		27.00		154.35		20	
	50		63.25		611.01		55.56
11+50		32.40		167.55		20	
	50		68.36		615.66		55.56
12+00		31.80		156.8		20	
	50		81.46		586.24		55.56
12+50		44.70		152.05		20	
	50		94.56		572.01		55.56
13+00		44.10		149.3		20	
	50		98.07		599.53		55.56
13+50		48.00		166.55		20	
	50		104.62		696.15		62.50
14+00		50.25		200.2		25	
	50		99.83		835.56		76.39
14+50		43.50		240		30	
	50		90.08		968.25		86.11
15+00		41.10		270.1		32	
	50		91.68		1,013.61		88.89
15+50		45.00		263.9		32	
	50		340.21		973.84		88.89
16+00		274.50		249.15		32	
	50		341.81		472.92		44.44
16+50		46.50		0		0	
	50		94.24		0.00		0.00
17+00		42.00		0		0	
TOTAL			1,600		8,240		755

\*CONVERSION FACTOR FOR POROUS GRANULAR EMBANKMENT IS 2.05 TON/CUYD

\*\*CONVERSION FACTOR FOR STONE DUMPED RIPRAP, CLASS B3 IS 1.5 TON/CUYD

TRAFFIC CONTROL AND PROTECTION STANDARD 701201	
LOCATION	L SUM
JOB SITE	1
TOTAL	1

INLET AND PIPE PROTECTION	
LOCATION	L SUM
STA. 17+50	1
TOTAL	1

MOBILIZATION	
LOCATION	L SUM
JOB SITE	1
TOTAL	1

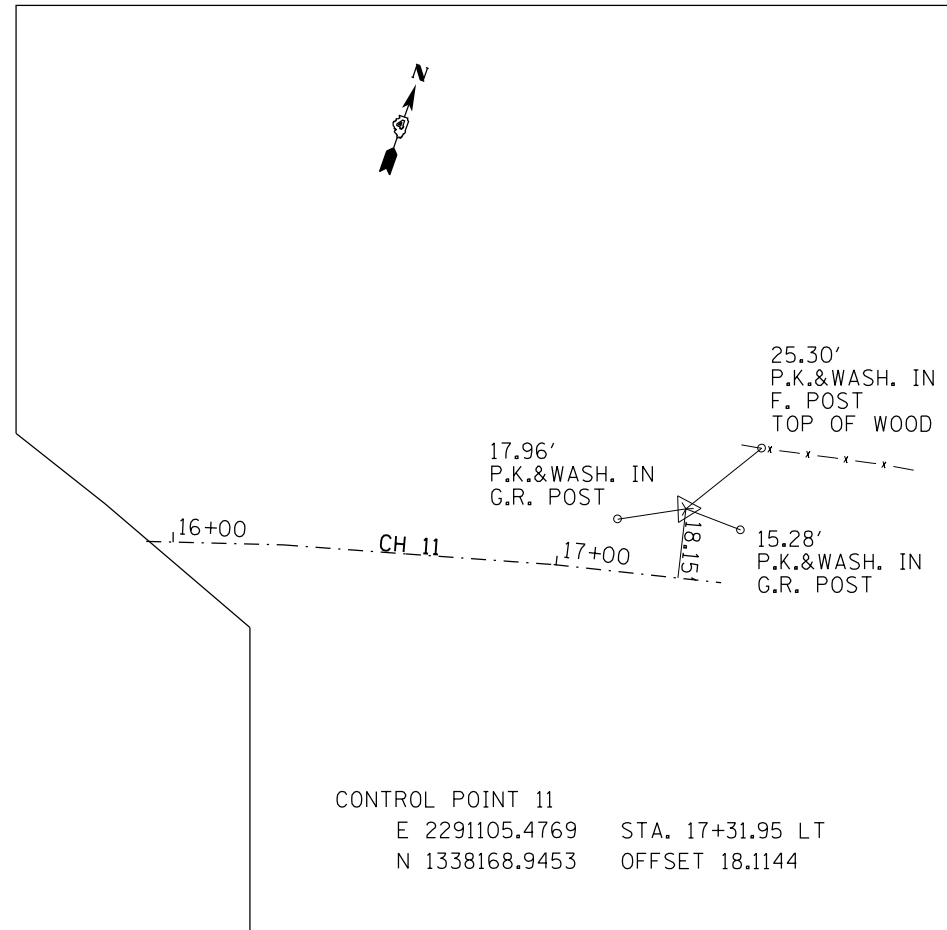
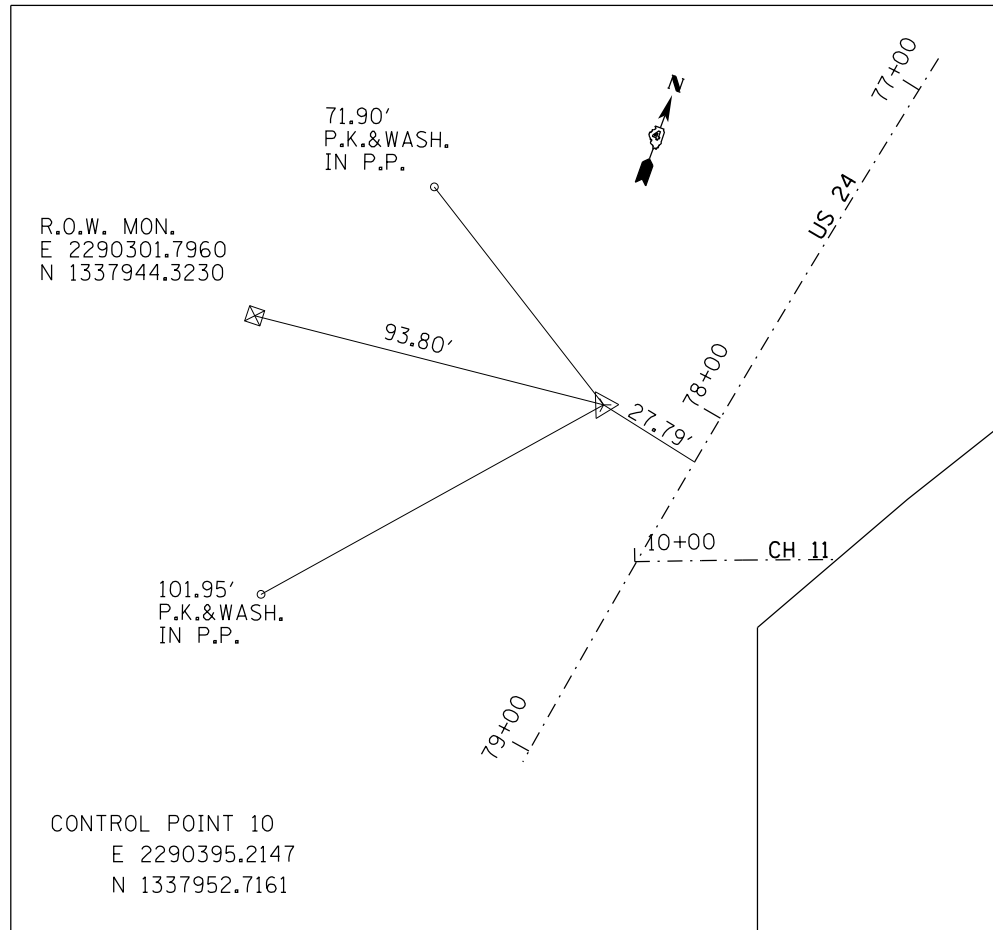
ENGINEER'S FIELD OFFICE, TYPE A	
LOCATION	CAL MO
JOB SITE	1
TOTAL	1

CONSTRUCTION LAYOUT	
LOCATION	L SUM
JOB SITE	1
TOTAL	1

CHANGEABLE MESSAGE SIGN *	
LOCATION	CAL DA
JOB SITE - 3 MESSAGE BOARDS FOR 20 DAYS EACH	60
TOTAL	60

\* EXACT LOCATIONS WILL BE DETERMINED BY THE RESIDENT ENGINEER ( TWO BOARDS ON N&S BOUNDS US 24 AND ONE ON US 136 )

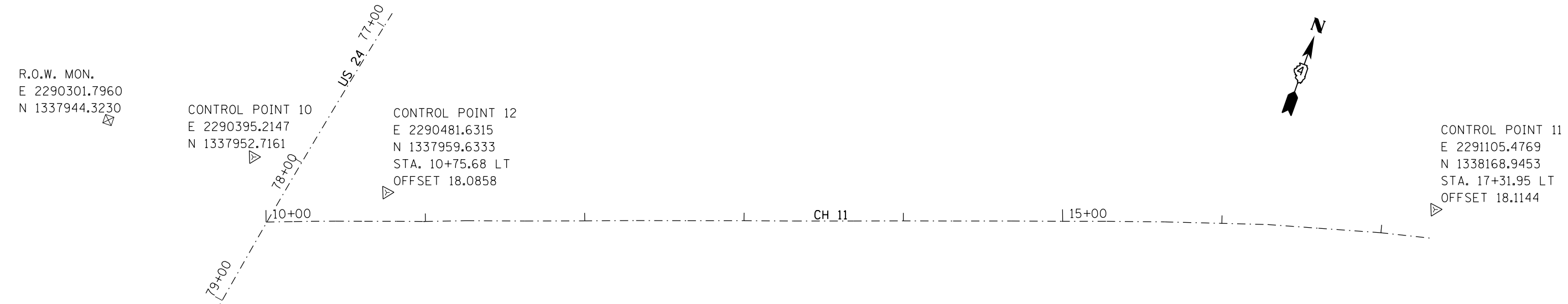
FILE NAME : Cover_GN_Plan_Erosion_500_sheets.dgn	USER NAME : tsubregga	DESIGNED - DRAWN -	REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES	F.A.P. RTE. 317	SECTION (181)	COUNTY FULTON	TOTAL SHEETS 47	SHEET NO. 6
	PLOT SCALE : 50,000' = 1" / in.	CHECKED - DATE -	REVISED - REVISED -			SCALE:	SHEET OF SHEETS	STA. TO STA.	CONTRACT NO. 68A25 ILLINOIS FED. AID PROJECT	



B.M. A  
 A PEX. R.O.W. MON. 10' SO. OF SO. EDGE OF P.C.C. PAD UNDER DUNCAN MILLS PARK PAVILLION @ N.W. QUAD. US 24 & DUNCAN MILL ROAD (1045N) ELEV. 480.87

B.M. 14  
 STAND. BR. DISK ON ROD IN CLAY TILE ON E. SIDE OF BUSH IN FRONT OF 1ST RESIDENCE W. OF DUNCAN MILLS VILLAGE HALL ELEV. 480.37

NOTE: BM ARE TAKEN FROM FIELD BOOK 2866 D-2158

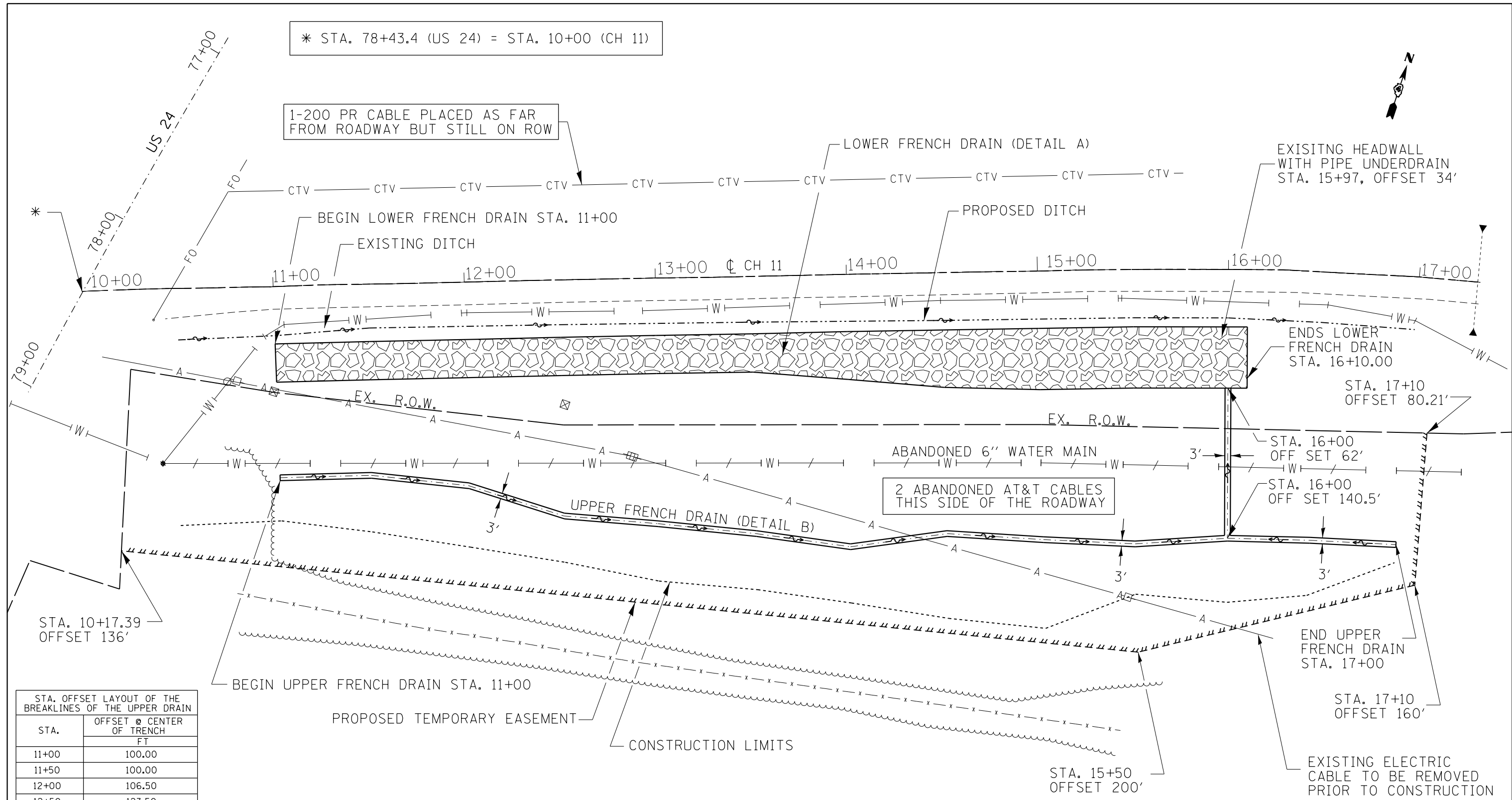


NOT TO SCALE

FILE NAME = Cover_GN_Plan_Erosion_S00_sheets.dgn	USER NAME = aubreys	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>ALIGNMENT TIE POINTS AND BENCHMARKS</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -		317	(18)I	FULTON	47	7				
		CHECKED -	REVISED -		CONTRACT NO. 68A25								
		DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT	

\* STA. 78+43.4 (US 24) = STA. 10+00 (CH 11)

1-200 PR CABLE PLACED AS FAR FROM ROADWAY BUT STILL ON ROW



STA. OFFSET LAYOUT OF THE BREAKLINES OF THE UPPER DRAIN

STA.	OFFSET @ CENTER OF TRENCH FT
11+00	100.00
11+50	100.00
12+00	106.50
12+50	123.50
13+00	128.50
13+50	134.50
14+00	142.50
14+50	136.50
15+00	140.50
15+50	143.50
16+00	140.50
16+50	140.50
17+00	140.50

IF EXISTING PIPE UNDER DRAIN AND HEADWALL DAMAGED DURING CONSTRUCTION; IT SHALL BE RECONSTRUCTED TO OUTLET INTO THE NEW FRENCH DRAIN. THIS WORK SHALL BE PAID FOR AS 109.04.

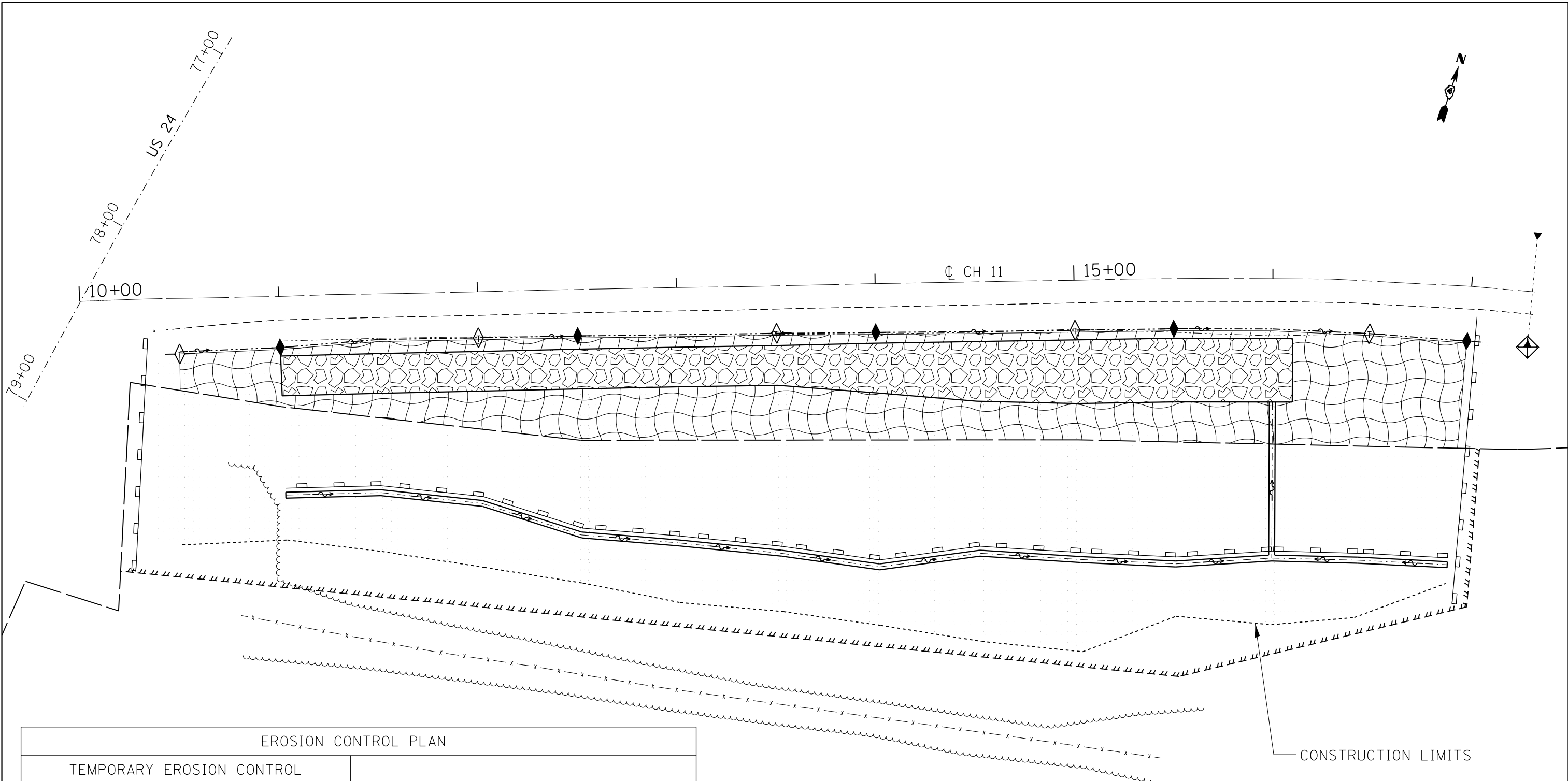
FILE NAME =	USER NAME = aubreys	DESIGNED -	REVISED -
Cover_GN_Plan_Erosion_S00_sheets.dgn		DRAWN -	REVISED -
	PLOT SCALE = 50.000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/21/2013	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CH 11 PLAN  
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(18)I	FULTON	47	8
CONTRACT NO. 68A25				
ILLINOIS FED. AID PROJECT				





EROSION CONTROL PLAN	
TEMPORARY EROSION CONTROL	
	INLET AND PIPE PROTECTION
	PERIMETER EROSION BARRIER
	TEMPORARY DITCH CHECKS
PERMANENT EROSION CONTROL	
	AGGREGATE DITCH CHECKS
	STONE DUMPED RIPRAP CLASS B3, 12"
	HEAVY DUTY EROSION CONTROL BLANKET
	SEEDING

PRIOR TO BEGINNING EARTHWORK, PERIMETER EROSION BARRIER SHALL BE PLACED AS SHOWN ABOVE IN ACCORDANCE WITH THE TYPICAL APPLICATION OF SILT FILTER FENCE DETAIL AND SECTION 280 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND AS DIRECTED BY THE RESIDENT ENGINEER.

CONSTRUCTION LIMITS

FILE NAME = Cover_GN_Plan_Erosion_S00_sheets.dgn	USER NAME = aubreys	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/21/2013	DATE -	REVISED -

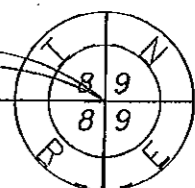
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(18)I	FULTON	47	9
CONTRACT NO. 68A25				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BEARINGS SHOWN HEREON ARE BASED ON  
SURVEY CONTROL DATA AS PROVIDED BY IDOT.



P.O.C.  
EAST CORNER  
SECTION 8

EXIST CH 11 CURVE  
PI STA. = 18+35.55  
Δ = 19° 35' 07" (RT)  
D = 3° 16' 28"  
R = 1,749.78'  
T = 302.01'  
L = 598.13'  
E = 25.87'  
P.C. STA = 15+33.54  
P.T. STA = 21+31.67

- LEGEND:
- FOUND IRON PIN/PIPE
  - 5/8" IRON PIN W/ CAP
  - ⊔ PROPERTY LINE
  - ( ) RECORD DISTANCE

THALWAG SPOON RIVER  
DECEMBER 2002

NORTH LINE OF SOUTHEAST  
QUARTER OF SECTION 8  
N 89°33'18" W 1,996.41'

EXISTING COUNTY  
HIGHWAY 11  
R=1,749.78 L= 209.79'  
LC= 209.66' BRG= S 79°42'11"W

N 89°33'18" W 1,483.75'

EXISTING RIGHT  
OF WAY LINE

PROPOSED TEMPORARY  
EASEMENT LINE

4BDD001-TE

RICHARD E. HAZZARD,  
TRUSTEE of the HAZZARD FAMILY TRUST  
AREA= 66,609 SQ.FT. +/-, OR 1.529 ACRES +/-  
A PART OF THE SOUTHEAST QUARTER OF SECTION 08,  
TOWNSHIP 04 NORTH, RANGE 03 EAST OF THE 4TH P.M.

FULTON COUNTY

TEMPORARY EASEMENT PLAT

FAP RTE. 317 (US 24)  
SHEET 1 OF 1  
SCALE: 1" = 50'  
NOVEMBER 20, 2012

CONSTRUCTION SECTION: (18)I  
JOB NO. R-94-013-12  
CATALOG NO. 034633-00



CONTRACT NO: 68A25

BY	DATE	COMPUTED	CHECKED	INKED	INK CHECKED
PCF	11-12				
RTS	11-12				
PCF	11-12				
RTS	11-12				

R.O.W. PLAT NO.  
NOTE BOOK NO.  
landacq/miscrow3/spoonrivereduncan.milis  
us24spoon.dgn  
1mp05row1.plt  
jobrow.gpk

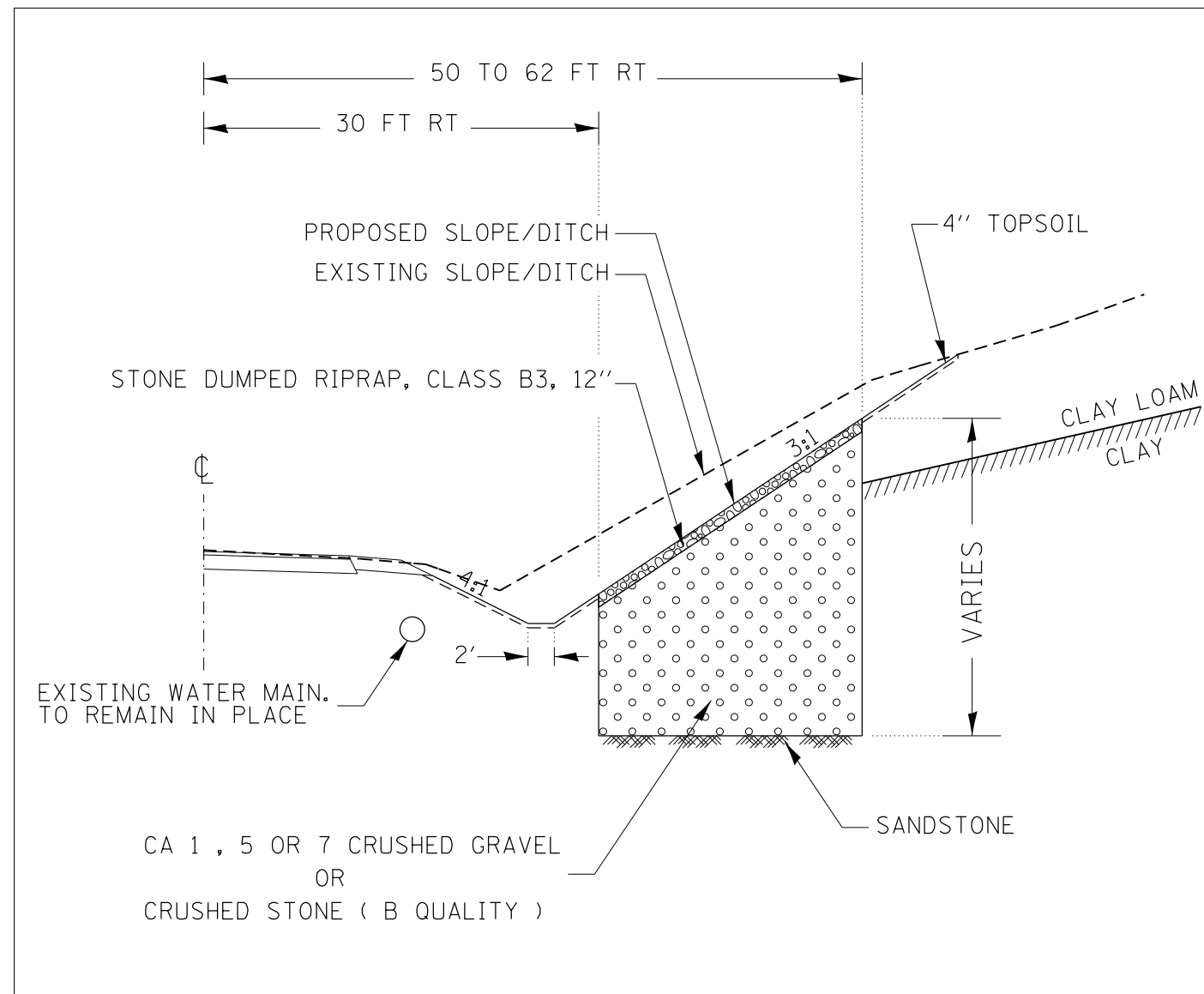
THIS IS TO CERTIFY THAT THIS IS A TRUE AND CORRECT PLAT OF SURVEY MADE UNDER MY DIRECTION FOR THE ILLINOIS DEPARTMENT OF TRANSPORTATION. THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

*Paul C. Fields* 11.20.12  
PAUL C. FIELDS - ILLINOIS PROFESSIONAL  
LAND SURVEYOR NUMBER 35-3548  
MY LICENSE EXPIRES 11/30/2012

22-24-08-400-001  
DOC.# 1244099

REVISED:

Signed \_\_\_\_\_ Recorded \_\_\_\_\_ BOOK DOCUMENT NO. \_\_\_\_\_ PAGE \_\_\_\_\_ 4BDD001-TE



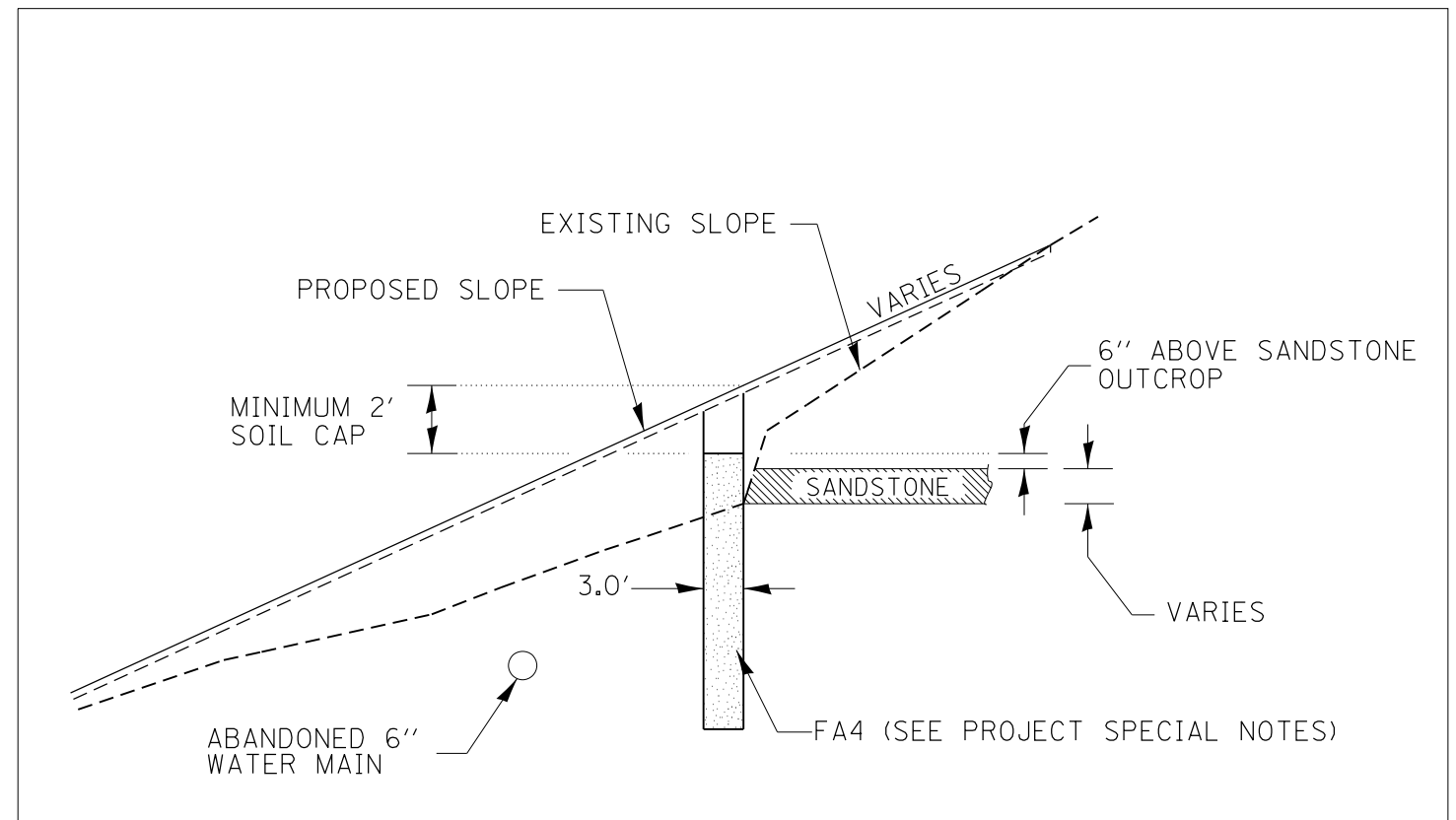
**LOWER FRENCH DRAIN – DETAIL A**

**JOB SPECIFIC NOTES:**

1. RESEED DISTURBED AREA, PROPERTY OWNER TO PROVIDE THE TYPE OF SEED TO BE USED FOR REESTABLISHING VEGETATION ON THE SLOPE. (CHOOSING THE TYPE OF SEED SHALL BE ADDRESSED DURING LAND ACQUISITION PROCESS)
2. NO TRENCH SHALL BE ALLOWED TO BE LEFT OPEN OVERNIGHT
3. NO FILTER FABRIC SHALL BE USED TO LINE ANY TRENCH.
4. EARTH MATERIAL PLACED ON THE PROPOSED SLOPE IS NOT TO BE COMPACTED

**STAGINGS:**

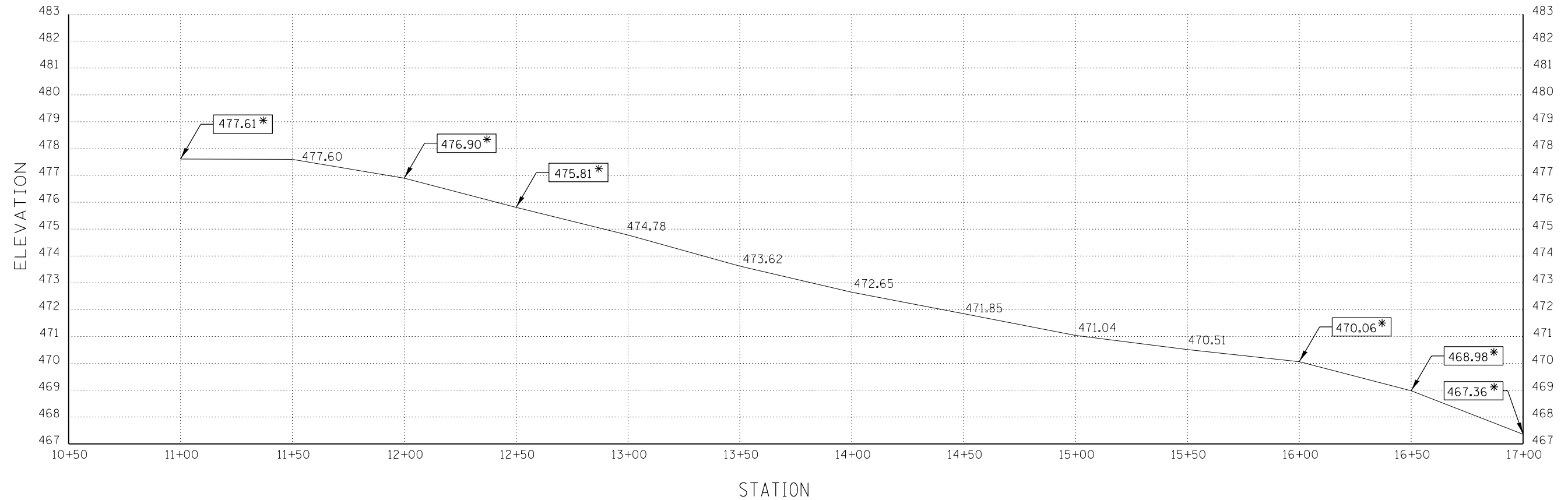
1. REMOVE EXCESS EARTH AND CONSTRUCT DETAIL A AT THE TOE FOR 20 FEET ONLY FROM STA. 15+90 TO STA. 16+10.
2. REMOVE EXCESS EARTH AND COMPLETELY INSTALL UPPER FRENCH DRAIN.
3. REMOVE EXCESS EARTH AND RESUME CONSTRUCTING LOWER FRENCH DRAIN FROM STA. 11+00 TO STA. 15+90



**UPPER FRENCH DRAIN – DETAIL B**

NOT TO SCALE

FILE NAME = Cover_GN_Plan_Erosion_S00_sheets.dgn	USER NAME = aubreys	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>FRENCH DRAINS DETAILS</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -		317	(18)I	FULTON	47	11			
		PLOT SCALE = 50.000' / in.	CHECKED -		REVISED -	CONTRACT NO. 68A25						
		PLOT DATE = 3/21/2013	DATE -		REVISED -	SCALE:	SHEET OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT			

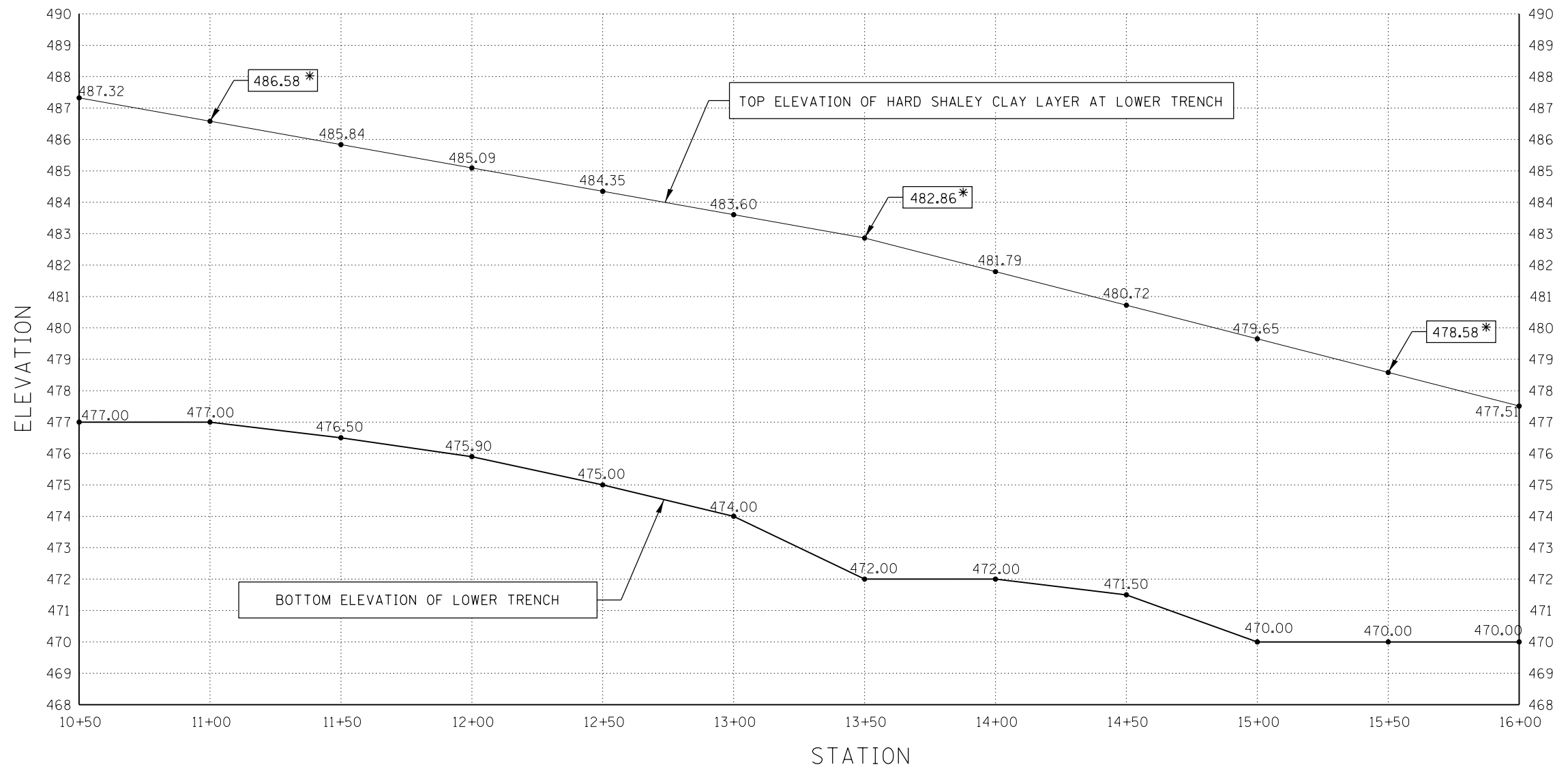


**BOTTOM ELEVATION OF WATER MAIN**

FIELD MEASUREMENTS	
STA.	ACTUAL DEPTH TO BOTTOM OF PIPE
10+95	4'
10+95	5'
12+01	4' 11"
12+47	5'
15+25	5'
15+81	5'
16+53	4' 10"
16+99	4' 10"

\* THESE ELEVATIONS ARE BASED ON ACTUAL FIELD DEPTH CHECK.  
 ALL OTHER ELEVATIONS IN THIS LINE ARE OBTAINED FROM CROSS SECTION

NOT TO SCALE

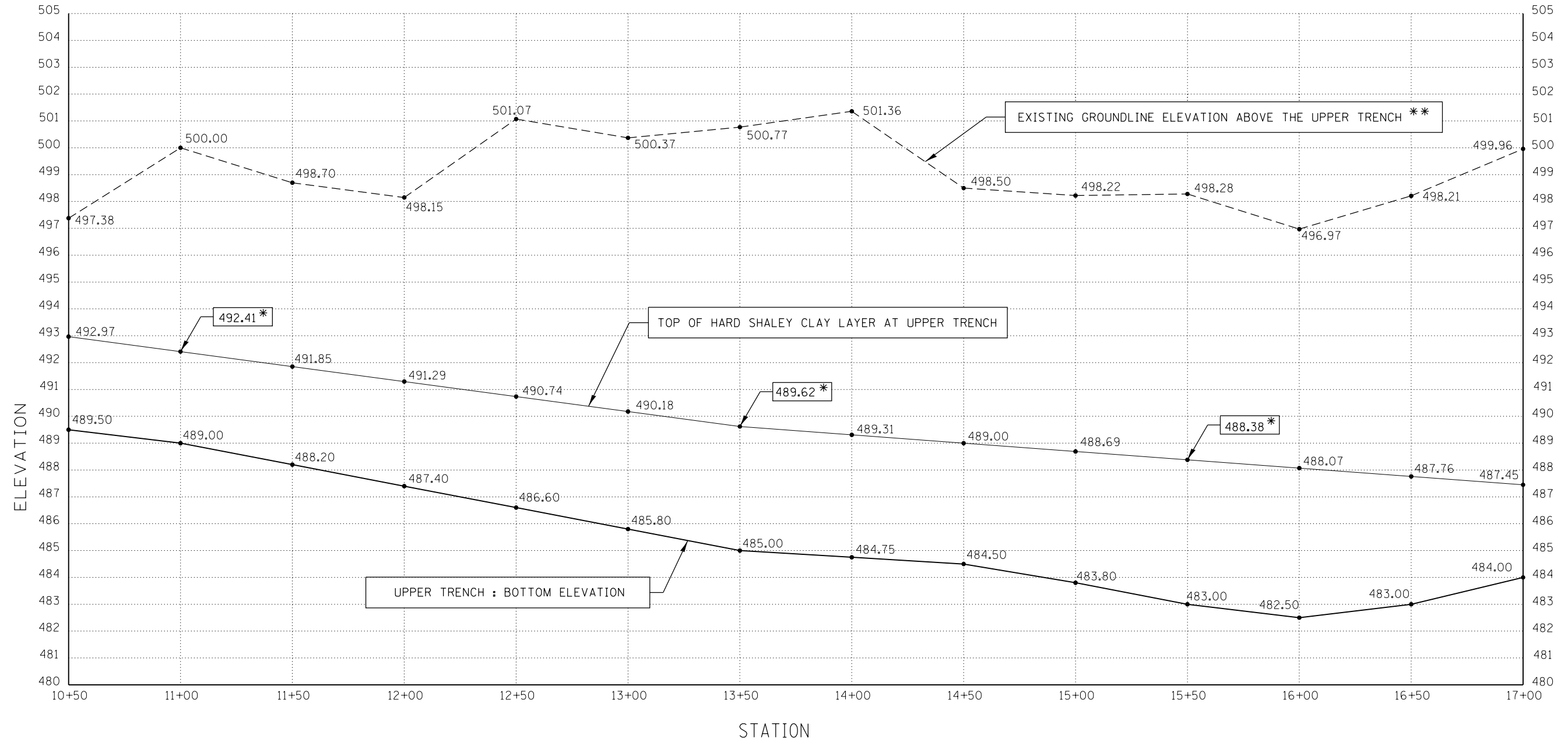


**FRENCH DRAIN ELEVATION (DETAIL A)**

\* THESE ELEVATIONS ARE TAKEN FROM ACTUAL BORING LOG;  
ALL OTHER ELEVATIONS IN THIS LINE ARE GRAPHICALLY PROJECTED

NOT TO SCALE

FILE NAME = Cover_GN_Plan_Erosion_S00.sheets.dgn	USER NAME = aubrejgs	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>LOWER FRENCH DRAIN DETAIL</b>			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					317	(18)I	FULTON	47	13
		PLOT SCALE = 50.000' / in.	CHECKED -		REVISED -	CONTRACT NO. 68A25			ILLINOIS FED. AID PROJECT			
		PLOT DATE = 3/21/2013	DATE -		REVISED -	SCALE:	SHEET	OF			SHEETS	STA.



### FRENCH DRAIN ELEVATIONS (DETAIL B)

\* THESE ELEVATIONS ARE TAKEN FROM ACTUAL BORING LOG;  
 ALL OTHER ELEVATIONS IN THIS LINE ARE GRAPHICALLY PROJECTED  
 \*\* EXISTING GROUNDLINE ELEVATION IS TAKEN ABOVE THE CENTER OF THE PROPOSED TRENCH

NOT TO SCALE

FILE NAME = Cover_GN_Plan_Erosion_S00_sheets.dgn	USER NAME = aubreys	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>UPPER FRENCH DRAIN DETAIL</b>				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -		317	(18)I	FULTON	47	14				
		CHECKED -	REVISED -		CONTRACT NO. 68A25				ILLINOIS FED. AID PROJECT				
		DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.		





# SOIL BORING LOG

Date 12/5/11

ROUTE C. H. 11 DESCRIPTION PTB 155-45 W. O. 16 - Slope Failure LOGGED BY SCI  
 SECTION N/A LOCATION Duncan Mills, Illinois, SEC. 8, TWP. 4N, RNG. 3E,  
Latitude , Longitude  
 COUNTY Fulton DRILLING METHOD CME 750 w/HSA HAMMER TYPE AUTO

STRUCT. NO. Station	N/A N/A	DEPTH H (ft)	BLOW S (/6")	UCS Qu (tsf)	MOIST S (%)	Surface Water Elev.	N/A	ft
BORING NO. B-01 Station 11+06.45 Offset 15.1 ft RT Ground Surface Elev. 483.75 ft						Stream Bed Elev.	N/A	ft
FILL: Brown, sand, fine to coarse, with fine to coarse gravel (A-3) 482.67 3								
FILL: Gray, silt, trace crushed rock (A-4) 481.50 3 4.5 P 15								
SANDY CLAY: Brown (A-6) 480.75 3								
SAND: Brown, fine to medium, trace gravel (A-2) 4 4.0 P 12								
477.25 12								
SANDSTONE 476.75 50/5" 6								
Auger refusal at 7.0 ft. Borehole continued with rock coring.								
-10								
-15								
-20								

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



# ROCK CORE LOG

Date 12/5/11

ROUTE C. H. 11 DESCRIPTION PTB 155-45 W. O. 16 - Slope Failure LOGGED BY SCI  
 SECTION N/A LOCATION Duncan Mills, Illinois, SEC. 8, TWP. 4N, RNG. 3E,  
Latitude , Longitude  
 COUNTY Fulton CORING METHOD Rotary, surface set diamond bit

STRUCT. NO. Station	N/A N/A	CORING BARREL TYPE & SIZE NX conv dbl bbl split inner	DEPTH H (ft)	CORE R (#)	RECOVERY Y (%)	CORRECTION D (%)	CORE T TIME (min/ft)	STRENGTH H (tsf)		
BORING NO. B-01 Station 11+06.45 Offset 15.1 ft RT Ground Surface Elev. 483.75 ft									Core Diameter	1.9
SANDSTONE: Tan 476.75 1 92 25										
Becomes gray										
Some cross-bedding										
-10										
2 100 60										
Black shale seam - 2.5 inches 469.67										
SANDSTONE: Tan, cross-bedded 469.54										
-15										
16' 8" - 3/8-inch clay seam 16' 8.75" - 3/4-inch clay seam 17' 1.75" - 1/2-inch clay seam										
SHALEY CLAY: Light gray 465.75 3 100 88										
-20										
CLAYEY SHALE: Light gray 463.87										
SHALE: Black and gray 462.92										
461.75										
End of Boring										
-25										

Color pictures of the cores  Yes  
 Cores will be stored for examination until \_\_\_\_\_  
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)  
 BBS, form 138 (Rev. 8-99)





# SOIL BORING LOG

Date 12/9/11

ROUTE C. H. 11 DESCRIPTION PTB 155-45 W. O. 16 - Slope Failure LOGGED BY SCI  
 SECTION N/A LOCATION Duncan Mills, Illinois, SEC. 8, TWP. 4N, RNG. 3E,  
Latitude , Longitude  
 COUNTY Fulton DRILLING METHOD CME 750 w/HSA HAMMER TYPE AUTO

STRUCT. NO.	Station	DEPTH (ft)	BLOW S (6")	UCS Qu (tsf)	MOIST (%)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev.:	First Encounter (ft)	Upon Completion (ft)	After N/A Hrs. (ft)
N/A	N/A					N/A	N/A		N/A	N/A	N/A
B-02	12+73.10										
	Offset 14.1 ft RT										
	Ground Surface Elev. 480.75 ft										
FILL: Brown, sand, fine to coarse, with fine to coarse gravel (A-3) 479.75 FILL: Gray, sandy clay, with sandstone fragments (A-6) 477.75 SANDY CLAY: Brown, with shale fragments (A-6) 477.00 SAND: Brown, fine to coarse, with gravel and chert fragments (A-2) 476.25 SANDSTONE 475.25 Auger refusal at 5.5 ft. Borehole continued with rock coring.											

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



# ROCK CORE LOG

Date 12/9/11

ROUTE C. H. 11 DESCRIPTION PTB 155-45 W. O. 16 - Slope Failure LOGGED BY SCI  
 SECTION N/A LOCATION Duncan Mills, Illinois, SEC. 8, TWP. 4N, RNG. 3E,  
Latitude , Longitude  
 COUNTY Fulton CORING METHOD Rotary, surface set diamond bit

STRUCT. NO.	Station	CORING BARREL TYPE & SIZE	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
N/A	N/A	NX conv dbl bbl split inner						
B-02	12+73.10	Core Diameter 1.9 in						
	Offset 14.1 ft RT	Top of Rock Elev. 476.25 ft						
	Ground Surface Elev. 480.75 ft	Begin Core Elev. 475.25 ft						
SANDSTONE: Brown and gray to gray, fine-grained, slightly weathered 6' 9" - 1/4" shale seam 7' 0" - 1/2" clay seam 9' 5" - 1.5" clay seam 10' 6" - 3/4" clay seam Trace shale partings Numerous shale partings SHALEY CLAY: Dark gray Becomes light gray CLAYEY SHALE: Light gray Becomes dark gray End of Boring								

Color pictures of the cores  Yes  
 Cores will be stored for examination until \_\_\_\_\_  
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)  
 BBS, form 138 (Rev. 8-99)





# SOIL BORING LOG

ROUTE C. H. 11 DESCRIPTION PTB 155-45 W. O. 16 - Slope Failure LOGGED BY SCI  
 SECTION N/A LOCATION Duncan Mills, Illinois, SEC. 8, TWP. 4N, RNG. 3E,  
Latitude , Longitude  
 COUNTY Fulton DRILLING METHOD CME 750 w/HSA HAMMER TYPE AUTO

STRUCT. NO.	Station	DEPTH (ft)	BULGE (in)	UCS (tsf)	MOISTURE (%)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter (ft)	Upon Completion (ft)	After N/A Hrs. (ft)
N/A	N/A					N/A	N/A		N/A	N/A	N/A
B-04	14+80.24										
	Offset	19.7 ft RT									
	Ground Surface Elev.	476.47 ft									
SILT: Brown, with sandstone fragments (A-4) 475.47											
SANDSTONE: Brown Becomes gray 30 35 9 7											
Becomes fragmented, with brown sandy clay 472.47 2 11 12											
CLAY: Gray, with fine sand and sandstone fragments (A-7) 471.47 -5 40 17											
Auger refusal at 5.0 ft.											
Borehole continued with rock coring.											
-10											
-15											
-20											

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

BBS, form 137 (Rev. 8-99)



# ROCK CORE LOG

ROUTE C. H. 11 DESCRIPTION PTB 155-45 W. O. 16 - Slope Failure LOGGED BY SCI  
 SECTION N/A LOCATION Duncan Mills, Illinois, SEC. 8, TWP. 4N, RNG. 3E,  
Latitude , Longitude  
 COUNTY Fulton CORING METHOD Rotary, surface set diamond bit

STRUCT. NO.	Station	CORING BARREL TYPE & SIZE	Core Diameter (in)	Top of Rock Elev. (ft)	Begin Core Elev. (ft)	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
N/A	N/A	NX conv dbl bbl split inner	1.9	471.47	471.47						
B-04	14+80.24										
	Offset										
	Ground Surface Elev.										
SANDSTONE: Tan, rubble, some clay-filled vertical jointing 471.47 1 90 83											
SANDSTONE: Gray 470.30											
6' 5.5" - 1.5" clay seam, with fine gravel											
7' 1" - iron-stained parting											
Interbedded with shale, thinly layered											
8' 0" - 3/4" clay seam 468.41											
SHALEY CLAY: Light gray											
-10											
CLAYEY SHALE: Light gray 466.05 2 100 83											
Becomes dark gray											
-15											
SHALEY CLAY: Tan 463.01											
SANDY SHALE: Gray 462.89											
SANDSTONE: Gray 462.05											
SHALEY CLAY: Gray 461.80											
SHALE: Black, weathered 461.47 3 100 80											
15' 2.5" - 1" clay seam											
16' 8.5" - 2" clay seam											
18' 8.5" - iron-stained parting											
Shaley clay layer - rubble 457.22											
SHALE: Black, weathered 457.05											
End of Boring 456.47 -20											
-25											

Color pictures of the cores  Yes

Cores will be stored for examination until \_\_\_\_\_

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)



# SOIL BORING LOG

ROUTE C. H. 11 DESCRIPTION PTB 155-45 W. O. 16 - Slope Failure LOGGED BY SCI  
 SECTION N/A LOCATION Duncan Mills, Illinois, SEC. 8, TWP. 4N, RNG. 3E,  
Latitude , Longitude  
 COUNTY Fulton DRILLING METHOD CME 750 w/HSA HAMMER TYPE AUTO

STRUCT. NO.	Station	DEPTH (ft)	BLOW (6")	UCS (tsf)	MOIST (%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After N/A Hrs.
N/A	N/A					N/A	N/A		N/A	N/A	N/A
B-05	16+14.22										
		0									
		1									
		2									
		3									
		4									
		5									
		6									
		7									
		8									
		9									
		10									
		11									
		12									
		13									
		14									
		15									
		16									
		17									
		18									
		19									
		20									
		21									
		22									
		23									
		24									
		25									

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



# ROCK CORE LOG

ROUTE C. H. 11 DESCRIPTION PTB 155-45 W. O. 16 - Slope Failure LOGGED BY SCI  
 SECTION N/A LOCATION Duncan Mills, Illinois, SEC. 8, TWP. 4N, RNG. 3E,  
Latitude , Longitude  
 COUNTY Fulton CORING METHOD Rotary, surface set diamond bit

STRUCT. NO.	Station	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
N/A	N/A						
B-05	16+14.22						
		0					
		1					
		2					
		3					
		4					
		5					
		6					
		7					
		8					
		9					
		10					
		11					
		12					
		13					
		14					
		15					
		16					
		17					
		18					
		19					
		20					
		21					
		22					
		23					
		24					
		25					

Color pictures of the cores Yes  
 Cores will be stored for examination until \_\_\_\_\_  
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)  
 BBS, form 138 (Rev. 8-99)





# SOIL BORING LOG

Page 1 of 1  
Date 12/8,12/2011

ROUTE C. H. 11 DESCRIPTION PTB 155-45 W. O. 16 - Slope Failure LOGGED BY SCI  
 SECTION N/A LOCATION Duncan Mills, Illinois, SEC. 8, TWP. 4N, RNG. 3E,  
Latitude , Longitude  
 COUNTY Fulton DRILLING METHOD CME 750 w/HSA HAMMER TYPE AUTO

STRUCT. NO.	Station	DEPTH (ft)	BLOW (6")	UCS (tsf)	MOIST (%)	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After N/A Hrs.
N/A	N/A					N/A	N/A		N/A	N/A	N/A
B-07	14+69.08										
		103.8									
		496.24									
TOPSOIL - 15 inches											
		494.99	1								
CLAY: Brown, trace gravel, sand, and iron deposits (A-7)											
		493.24	2	1.4	22						
SILTY CLAY: Brown (A-6)											
		491.24	2	0.9	21						
CLAY: Brown (A-7)											
		489.74	3	1.3	18						
SHALEY CLAY: Gray, with sandstone fragments (A-7)											
		486.99	5	4.3	20						
CLAYEY SHALE: Gray, with iron staining and coal											
		485.74	7	4.0	21						
SHALE: Light gray, with iron staining											
			5								
			7	5.2	11						
			11								
			15	>4.5	13						
Interbedded with sandstone											
			11								
			20	>4.5	10						
		478.74	32	P							
SANDSTONE (hard drilling)											
		477.24	50/4"		8						
Auger refusal at 19.0 ft											
Borehole continued with rock coring.											

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



# ROCK CORE LOG

Page 1 of 1  
Date 12/8,12/2011

ROUTE C. H. 11 DESCRIPTION PTB 155-45 W. O. 16 - Slope Failure LOGGED BY SCI  
 SECTION N/A LOCATION Duncan Mills, Illinois, SEC. 8, TWP. 4N, RNG. 3E,  
Latitude , Longitude  
 COUNTY Fulton CORING METHOD Rotary, surface set diamond bit

STRUCT. NO.	Station	CORING BARREL TYPE & SIZE	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
N/A	N/A	NX conv dbl bbl split inner						
B-07	14+69.08	Core Diameter 1.9 in						
		Top of Rock Elev. 478.74 ft						
		Begin Core Elev. 477.24 ft						
		Ground Surface Elev. 496.24 ft						
SANDSTONE: Gray, slightly to moderately weathered								
			477.24	1	100	82		
19' 0" - 3-inch vertical joint								
20' 10" - 15-inch vertical joint								
22' 6.5" - 3-inch vertical joint								
22' 9.5" - 2-inch shaley clay seam								
23' 3" - 7-inch vertical joint								
24' 0" - 3-inch vertical joint								
24' 5" - 1-inch clay and gravel seam								
Becomes banded								
			470.74	2	100	80		
CLAYEY SHALE: Light gray								
SANDY SHALE: Light gray								
			467.91					
29' 0" - 1.25-inch clay seam, with fine shale gravels								
			464.82	3	95	92		
SHALE: Gray								
Becomes black (varved)								
			462.24					
End of Boring								

Color pictures of the cores Yes  
 Cores will be stored for examination until \_\_\_\_\_  
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)  
 BBS, form 138 (Rev. 8-99)



# SOIL BORING LOG

ROUTE C. H. 11 DESCRIPTION PTB 155-45 W. O. 16 - Slope Failure LOGGED BY SCI

SECTION N/A LOCATION Duncan Mills, Illinois, SEC. 8, TWP. 4N, RNG. 3E, Latitude, Longitude

COUNTY Fulton DRILLING METHOD CME 750 w/HSA HAMMER TYPE AUTO

STRUCT. NO.	N/A	DEPTH (ft)	BLOW (bl)	UCS (tsf)	MOIST (%)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)
BORING NO. B-08	Station 13+55.16	Offset 105.2 ft RT	Ground Surface Elev. 495.90 ft			N/A	N/A
						Groundwater Elev.:	
						First Encounter	N/A
						Upon Completion	N/A
						After N/A Hrs.	N/A
TOPSOIL - 14 inches							
		494.73	2				
SANDY CLAY: Brown (A-6)							
		492.90	5	>4.5	12		
			7	P			
CLAY: Brown, with sand and sandstone fragments, trace gravel (A-7)							
			3				
			7	4.5	14		
			6	S			
SANDY CLAY: Brown, with sandstone fragments and sandstone layers (A-6)							
		489.73	3				
			7	2.3	16		
			5	P			
Becomes gray							
		487.15	3	0.25	23		
0.25-inch coal seam							
		487.15	5	P	15		
SHALEY CLAY: Gray, with iron staining, trace coal (A-7)							
		485.40	5	1.9			
			5	S			
CLAYEY SHALE: Light gray, with iron staining							
			12	4.2	8		
			22	S			
			10				
Becomes greenish gray, with sand							
		479.90	19	3.9	16		
			30	S			
SANDSTONE (hard drilling)							
			50/3"		8		
Auger refusal at 18.5 ft.							
		477.40	50/2"		6		
Borehole continued with rock coring.							

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

BBS, form 137 (Rev. 8-99)



# ROCK CORE LOG

ROUTE C. H. 11 DESCRIPTION PTB 155-45 W. O. 16 - Slope Failure LOGGED BY SCI

SECTION N/A LOCATION Duncan Mills, Illinois, SEC. 8, TWP. 4N, RNG. 3E, Latitude, Longitude

COUNTY Fulton CORING METHOD Rotary, surface set diamond bit

STRUCT. NO.	N/A	CORING BARREL TYPE & SIZE	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
BORING NO. B-08	Station 13+55.16	Offset 105.2 ft RT	Ground Surface Elev. 495.90 ft					
SANDSTONE: Light gray, slightly weathered								
			477.40	1	79	71		
21' 0.5" - shale partings								
			474.40					63.5
Approximately 1-foot void encountered. No return of drilling fluid afterwards.								
			473.40					
SANDSTONE: Light gray, highly weathered, some clay								
				2	100	72		
22' 8" - 12.5-inch vertical joint(mostly open)								
No clay, some shale								
			470.90					5.2
CLAYEY SHALE: Light gray								
Becomes dark gray								
				3	100	69		
Interbedded layers of shaley clay and siltstone								
			464.98					
Very thinly layered light gray sandstone and black shale								
			463.98					
End of Boring								
			462.40					

Color pictures of the cores Yes  
 Cores will be stored for examination until

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)









# SOIL BORING LOG

Date 11/29/11

ROUTE C. H. 11 DESCRIPTION PTB 155-45 W. O. 16 - Slope Failure LOGGED BY SCI  
 SECTION N/A LOCATION Duncan Mills, Illinois, SEC. 8, TWP. 4N, RNG. 3E,  
 Latitude , Longitude  
 COUNTY Fulton DRILLING METHOD CME 750 w/HSA HAMMER TYPE AUTO

STRUCT. NO.	N/A	D	B	U	M	Surface Water Elev.	N/A	D	B	U	M
Station	N/A	E	L	C	O	Stream Bed Elev.	N/A	E	L	C	O
BORING NO.	B-11	P	O	S	I	Groundwater Elev.:		H	W	Q	S
Station	10+91.65	T	S	Qu	T	First Encounter	N/A	S	S		T
Offset	220.7 ft RT	H	S			Upon Completion	N/A	(ft)	(/6")	(tsf)	(%)
Ground Surface Elev.	515.44	(ft)	(/6")	(tsf)	(%)	After N/A Hrs.	N/A	(ft)	(/6")	(tsf)	(%)
SILTY LOAM: Brown (A-4)	513.94	2				SHALEY CLAY: Dark gray, with sandstone fragments	495.19 494.44		16	P	4.3 18
SANDY LOAM: Brown (A-4)		2	0.5	11		SILTSTONE: Light gray		31	50/3"	B	9.1 11
		1	S				492.69 492.52 491.94	32	50/2"	P	3.0 14
		2				SHALEY CLAY: Gray, with iron staining (A-7)					
		3	<0.25	9		SANDSTONE					
		3	P			Auger refusal at 23.5 ft.					
		5				Borehole continued with rock coring.					
		3	<0.25	13							
		4	P								
SHALEY CLAY: Brownish gray, with sandstone fragments (A-6)	505.94	5	3.0	8							
		6	P								
		3									
		5	2.0	14							
		4	P								
SHALEY CLAY: Gray, with iron staining (A-7)	501.69	5									
		6	4.5	18							
		10	P								
		6									
COAL: Black (8 inches)	499.44	6									
SHALE: Gray	498.77	38	5.3	32							
		50/4"	B								
		13									
		10	4.5	10							
SANDSTONE	495.94	50/4"	P								
		20									

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

BBS, form 137 (Rev. 8-99)



# ROCK CORE LOG

Date 11/29/11

ROUTE C. H. 11 DESCRIPTION PTB 155-45 W. O. 16 - Slope Failure LOGGED BY SCI  
 SECTION N/A LOCATION Duncan Mills, Illinois, SEC. 8, TWP. 4N, RNG. 3E,  
 Latitude , Longitude  
 COUNTY Fulton CORING METHOD Rotary, surface set diamond bit

STRUCT. NO.	N/A	CORING BARREL TYPE & SIZE		NX conv dbt bbl	D	C	R	R	CORE	S
Station	N/A	Core Diameter	1.9	split inner						
BORING NO.	B-11	Top of Rock Elev.	492.44	ft	(ft)	(#)	(%)	(%)	(min/ft)	(tsf)
Station	10+91.65	Begin Core Elev.	491.94	ft						
Offset	220.7 ft RT									
Ground Surface Elev.	515.44									
SHALEY CLAY: Light gray (2 inches)	491.94				1	98	85			
LIMEY SANDSTONE: Gray (1 inch)	491.77									
SANDSTONE: Brown and gray (2 inches)	491.69									
SILTSTONE: Light gray (8 inches)	491.52									
CLAYEY SHALE: Light gray	490.86									
SHALEY CLAY: Gray	487.61									
CLAYEY SHALE: Gray	487.02									
SHALEY CLAY: Light gray	486.27				2	100	85			
Becomes black										
31' 1" - 0.5-inch coal seam										
Becomes brownish gray										
SILTSTONE: Light gray	483.15									
SANDSTONE: Light gray	481.52				3	100	80			
SILTSTONE: Light gray	481.11									
SANDSTONE: Gray	480.56									
SHALEY CLAY: Gray	480.44									
SANDSTONE: Gray, coarse	480.08									
SHALEY CLAY: Gray	479.94									
CLAYEY SHALE: Light gray to black	478.02									
SANDSTONE: White and black	477.11									
SHALEY CLAY: Light gray	476.86									
SANDSTONE: Gray	476.48									
Becomes white	475.61									
End of Boring										

Color pictures of the cores Yes

Cores will be stored for examination until

The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)

BBS, form 138 (Rev. 8-99)





# SOIL BORING LOG

Date 12/1/11

ROUTE C. H. 11 DESCRIPTION PTB 155-45 W. O. 16 - Slope Failure LOGGED BY SCI

SECTION N/A LOCATION Duncan Mills, Illinois, SEC. 8, TWP. 4N, RNG. 3E,  
Latitude , Longitude

COUNTY Fulton DRILLING METHOD CME 750 w/HSA HAMMER TYPE AUTO

STRUCT. NO.	Station	DEPTH (ft)	BLOW S (ft)	UCS Qu (tsf)	MOIST (%)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter (ft)	Upon Completion (ft)	After N/A Hrs. (ft)	DEPTH (ft)	BLOW S (ft)	UCS Qu (tsf)	MOIST (%)
CLAY: Brown, trace sand and gravel (A-7)	N/A					N/A	N/A								
		2													
		4	2.8	20											
		5	B												
		2													
		4	2.6	17											
		8													
		8	4.0	14											
		8	P												
		7													
		6		11											
		-10													
		2													
		7		11											
		24													
		50/5"		10											
		-15													
		17													
		33		6											
		38													
		14													
		34		9											
		50/5"													
		-20													

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

BBS, form 137 (Rev. 8-99)



# ROCK CORE LOG

Date 12/1/11

ROUTE C. H. 11 DESCRIPTION PTB 155-45 W. O. 16 - Slope Failure LOGGED BY SCI

SECTION N/A LOCATION Duncan Mills, Illinois, SEC. 8, TWP. 4N, RNG. 3E,  
Latitude , Longitude

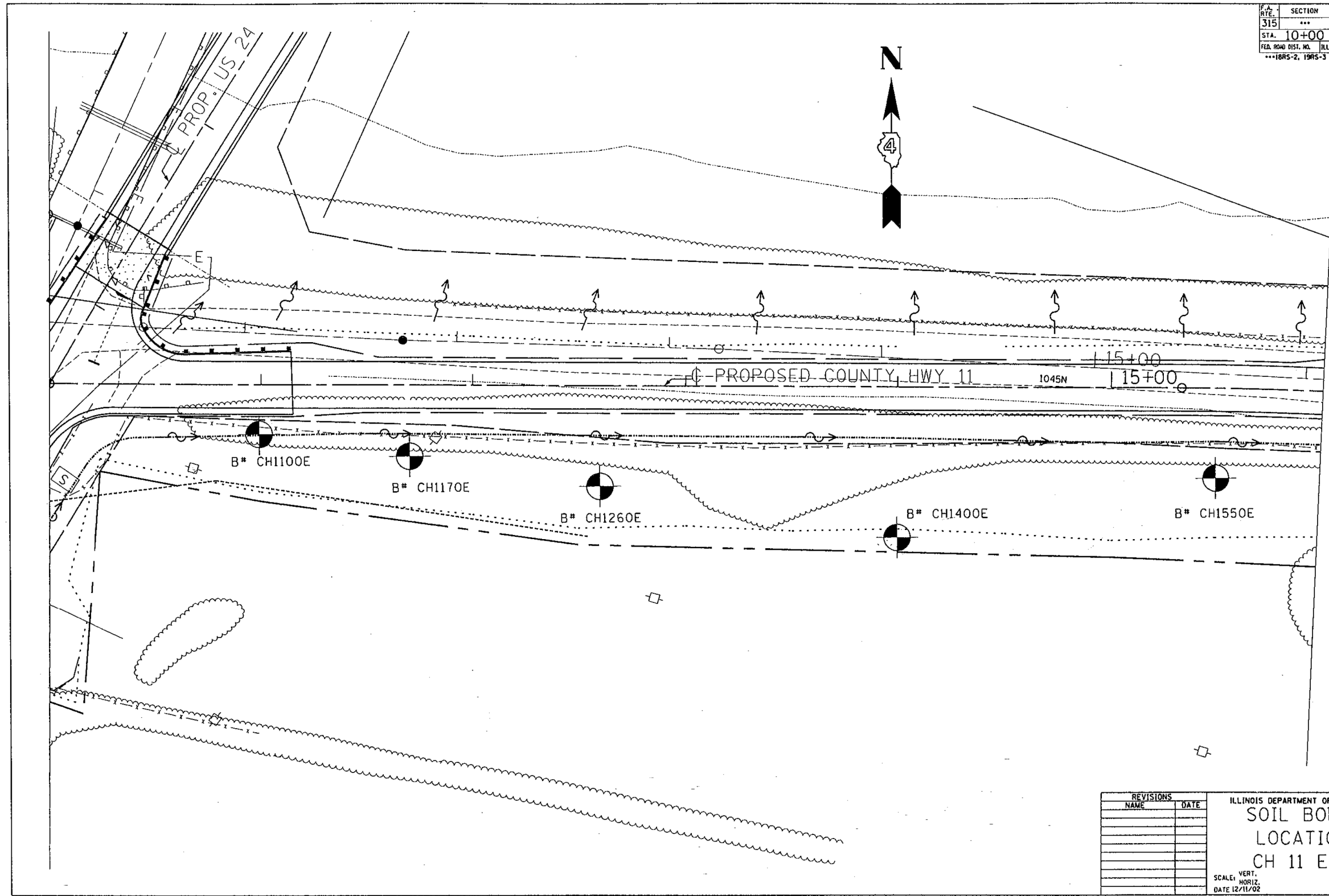
COUNTY Fulton CORING METHOD Rotary, surface set diamond bit

STRUCT. NO.	Station	CORING BARREL TYPE & SIZE	Core Diameter (in)	Top of Rock Elev. (ft)	Begin Core Elev. (ft)	DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
LIMESTONE: Dark gray, slightly weathered	N/A	NX conv dbl bbl split inner	1.9	490.03	490.03		1	100	88		
SHALEY CLAY: Dark gray, soft, highly weathered				489.53							
CLAYEY SHALE: Dark gray, moderately soft, highly weathered				488.61							
SHALEY CLAY: Light gray, soft				488.03							5.8
SILTSTONE: Light gray, moderately soft, highly weathered				487.11							
SHALEY CLAY: Light gray				486.03							
SANDSTONE: Gray				485.11							
SHALEY CLAY: Gray				484.95			2	100	88		
SANDSTONE: Gray				484.65							
CLAYEY SHALE: Light gray				483.57							
Becomes gray											
SHALEY CLAY: Light gray to black				478.86			3	100	93		
1.5-inch coal seam				477.78							
CLAYEY SHALE: Dark gray				477.65							
SHALEY CLAY: Light gray				477.20							
SILTSTONE: Light gray				475.36							
SANDSTONE: Light gray				473.65							
CLAYEY SHALE: Dark gray				473.15							
SHALEY CLAY: Gray				472.70							
End of Boring				472.03							

Color pictures of the cores Yes  
Cores will be stored for examination until

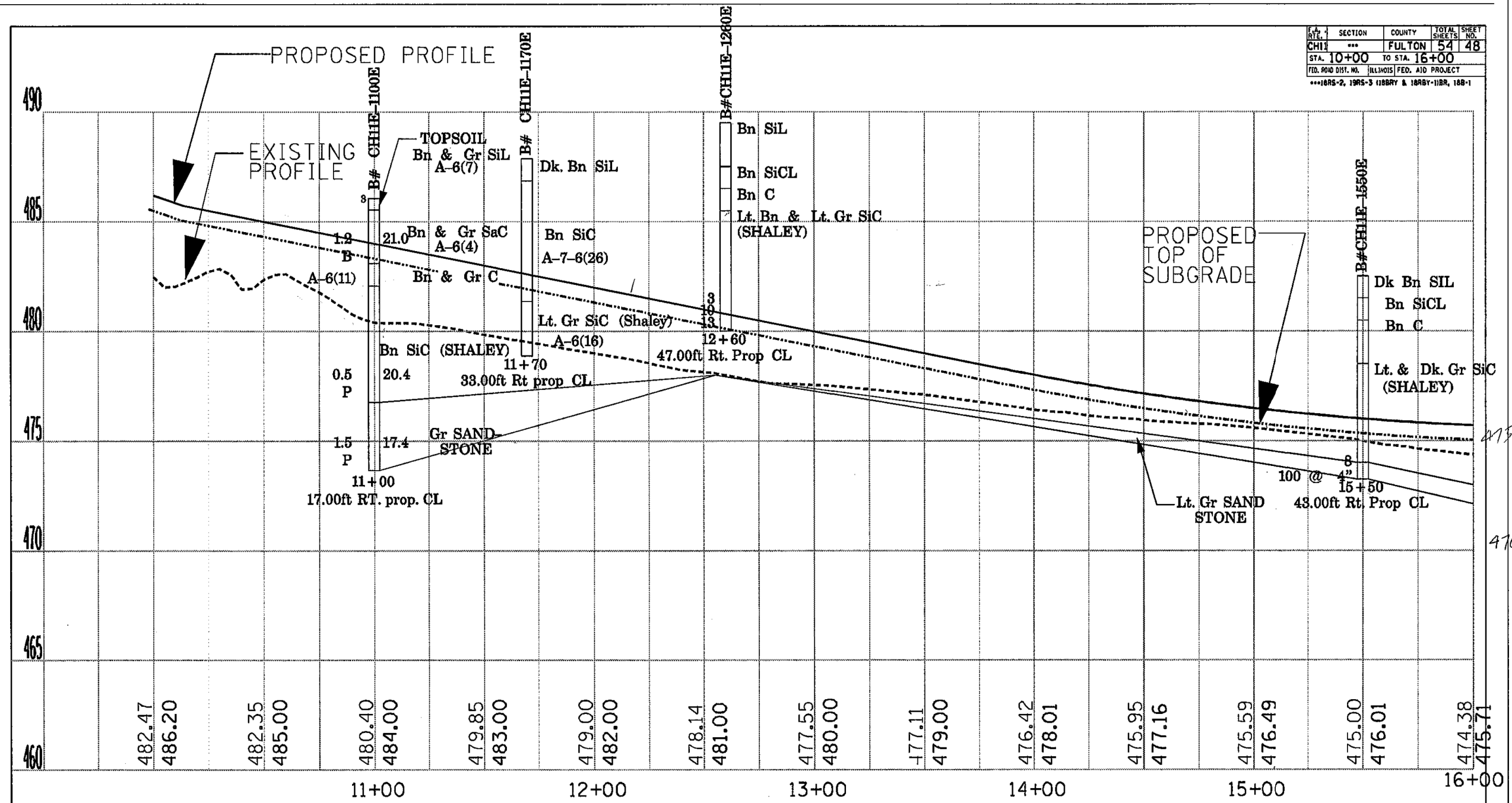
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)  
BBS, form 138 (Rev. 8-99)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	***	FULTON	54	47
STA. 10+00		TO STA. 16+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
***1BR5-2, 19R5-3 (1BR5Y & 1BR5Y-1BR, 1BR-1)				



REVISIONS		DATE
NAME		

ILLINOIS DEPARTMENT OF TRANSPORTATION	
SOIL BORING LOCATIONS	
CH 11 EAST	
SCALE: VERT. DATE 12/11/02	DRAWN BY
SCALE: HORIZ.	CHECKED BY



F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
CHI1	***	FULTON	54	48
STA. 10+00		TO STA. 16+00		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
***16RS-2, 19RS-3 118BY & 168BY-118R, 168-1				

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PROPOSED ROADWAY & SOIL PROFILES**  
 CH 11 EAST

SCALE: VERT. DATE 12/13/02  
 HORIZ. DRAWN BY  
 CHECKED BY









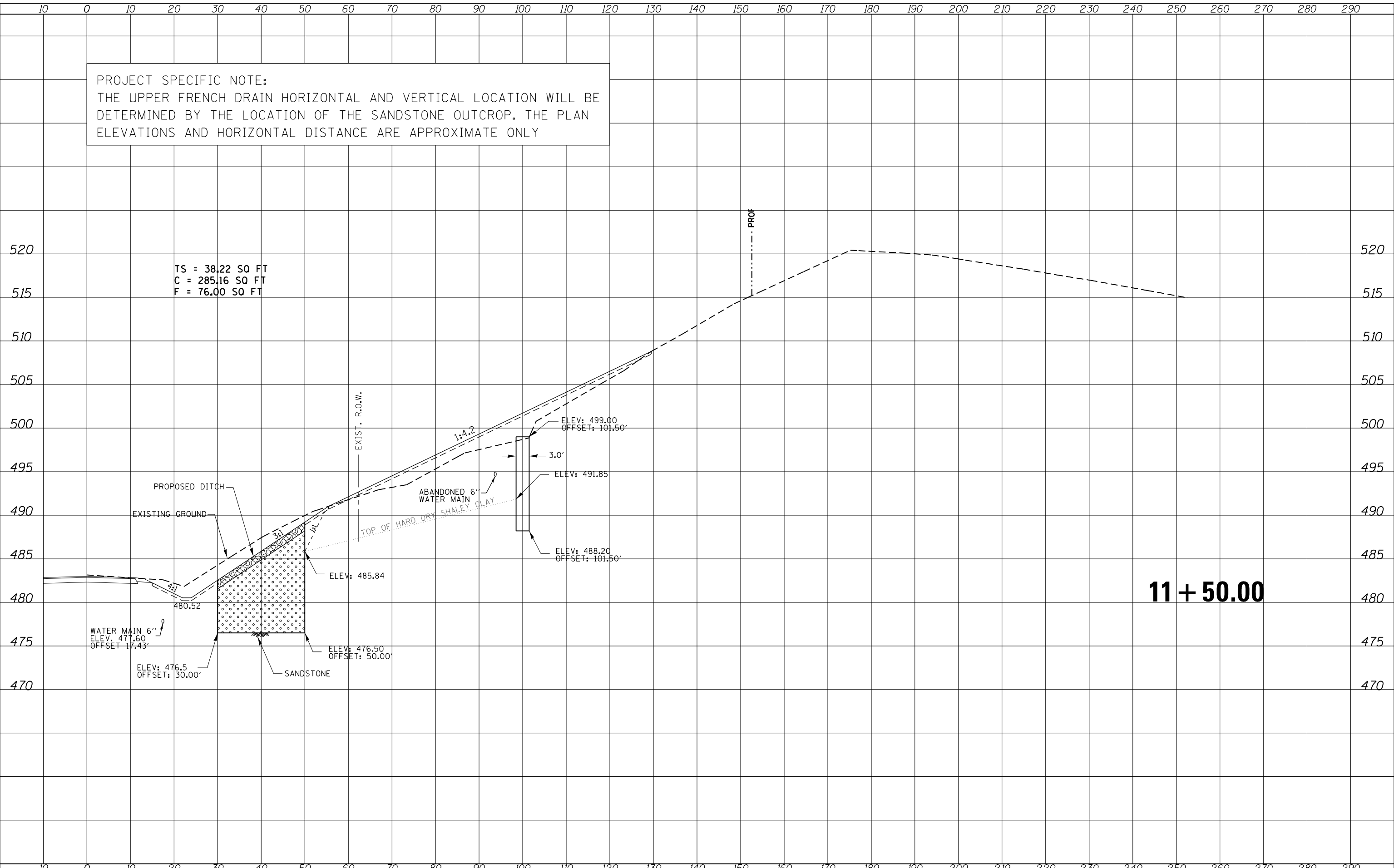




PROJECT SPECIFIC NOTE:  
 THE UPPER FRENCH DRAIN HORIZONTAL AND VERTICAL LOCATION WILL BE DETERMINED BY THE LOCATION OF THE SANDSTONE OUTCROP. THE PLAN ELEVATIONS AND HORIZONTAL DISTANCE ARE APPROXIMATE ONLY

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



TS = 38.22 SO FT  
 C = 285.16 SO FT  
 F = 76.00 SO FT

**11 + 50.00**

FILE NAME = US24DuncMillsSlide REVISED SHEET FILE .dgn

USER NAME = aubreys  
 PLOT SCALE = 20.000' / in.  
 PLOT DATE = 3/21/2013

DESIGNED	-	REVISED	-
DRAWN	-	REVISED	-
CHECKED	-	REVISED	-
DATE	-	REVISED	-

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

COUNTY HIGHWAY 11  
 CROSS SECTIONS

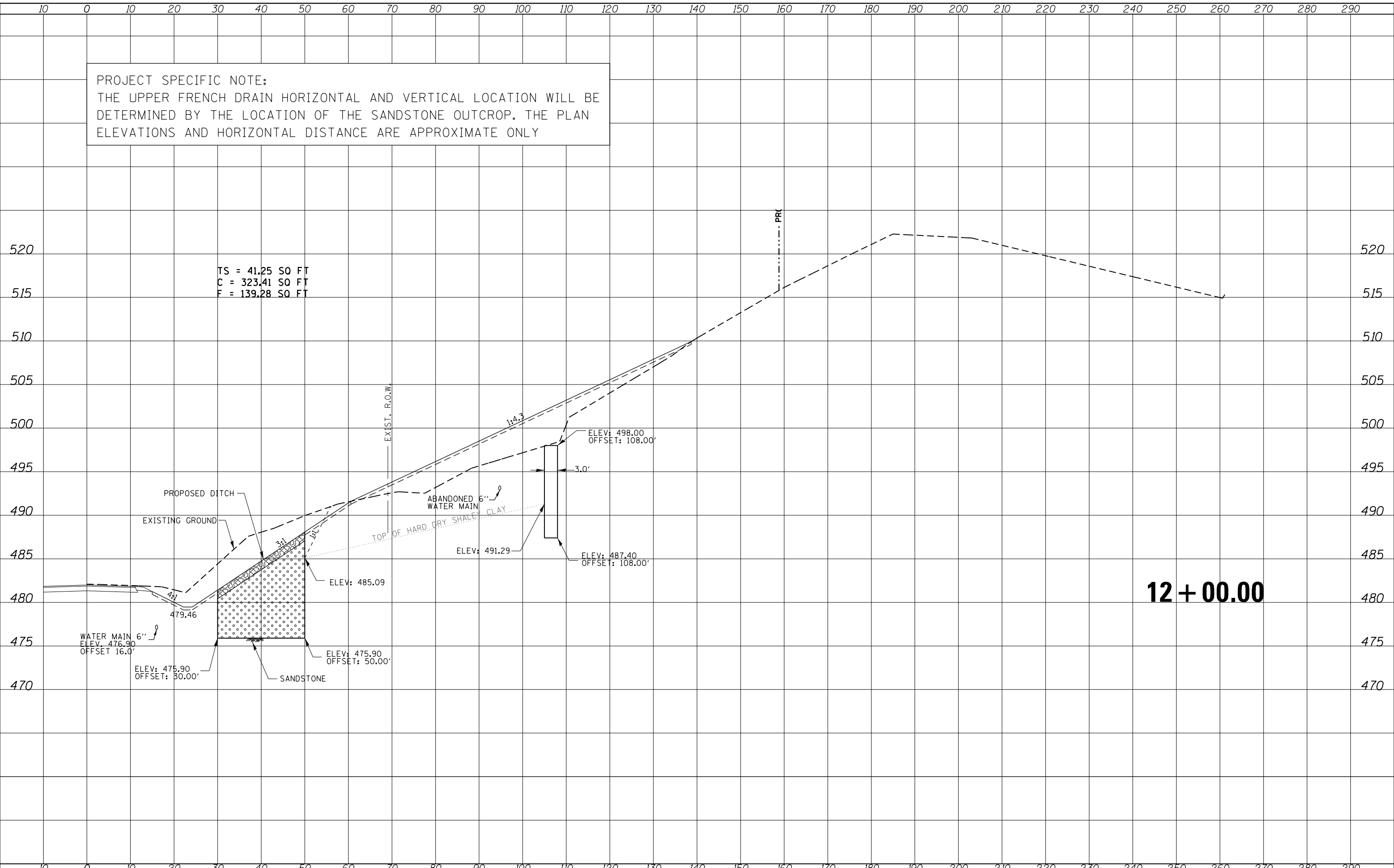
SCALE: SHEET OF SHEETS STA. 11+50.00 TO STA. 11+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(18)I	FULTON	47	36
				CONTRACT NO. 68A25
ILLINOIS FED. AID PROJECT				

PROJECT SPECIFIC NOTE:  
 THE UPPER FRENCH DRAIN HORIZONTAL AND VERTICAL LOCATION WILL BE DETERMINED BY THE LOCATION OF THE SANDSTONE OUTCROP. THE PLAN ELEVATIONS AND HORIZONTAL DISTANCE ARE APPROXIMATE ONLY

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

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



FILE NAME = US24DuncMillsSlide REVISED SHEET FILE .dgn

USER NAME = aubreys  
 PLOT SCALE = 20.000' / in.  
 PLOT DATE = 3/21/2013

DESIGNED -	REVISIED -
DRAWN -	REVISIED -
CHECKED -	REVISIED -
DATE -	REVISIED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

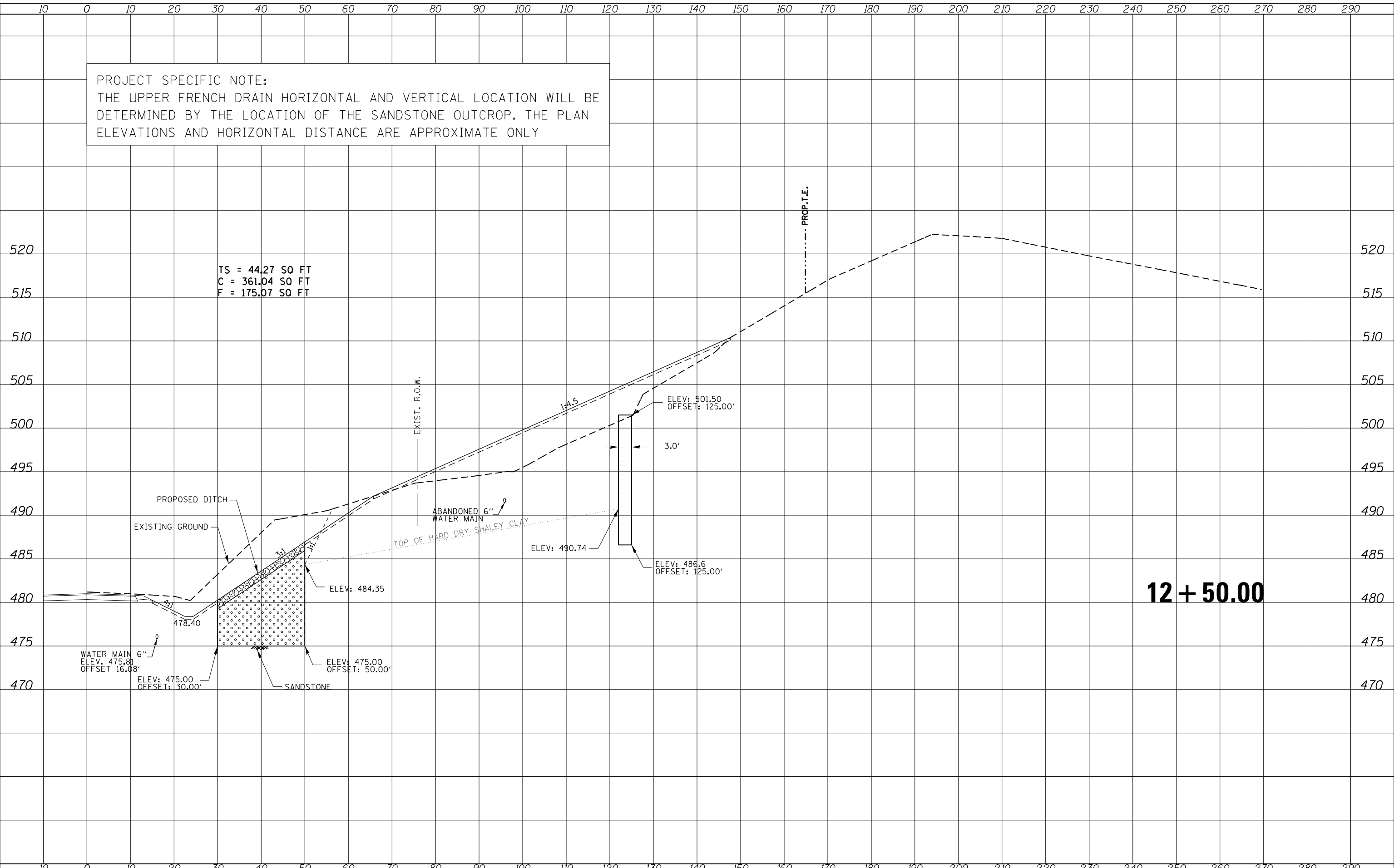
COUNTY HIGHWAY 11  
 CROSS SECTIONS  
 SCALE: SHEET OF SHEETS STA. 12+00.00 TO STA. 12+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(18)I	FULTON	47	37
				CONTRACT NO. 68A25
ILLINOIS FED. AID PROJECT				

PROJECT SPECIFIC NOTE:  
 THE UPPER FRENCH DRAIN HORIZONTAL AND VERTICAL LOCATION WILL BE DETERMINED BY THE LOCATION OF THE SANDSTONE OUTCROP. THE PLAN ELEVATIONS AND HORIZONTAL DISTANCE ARE APPROXIMATE ONLY

DATE	
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SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
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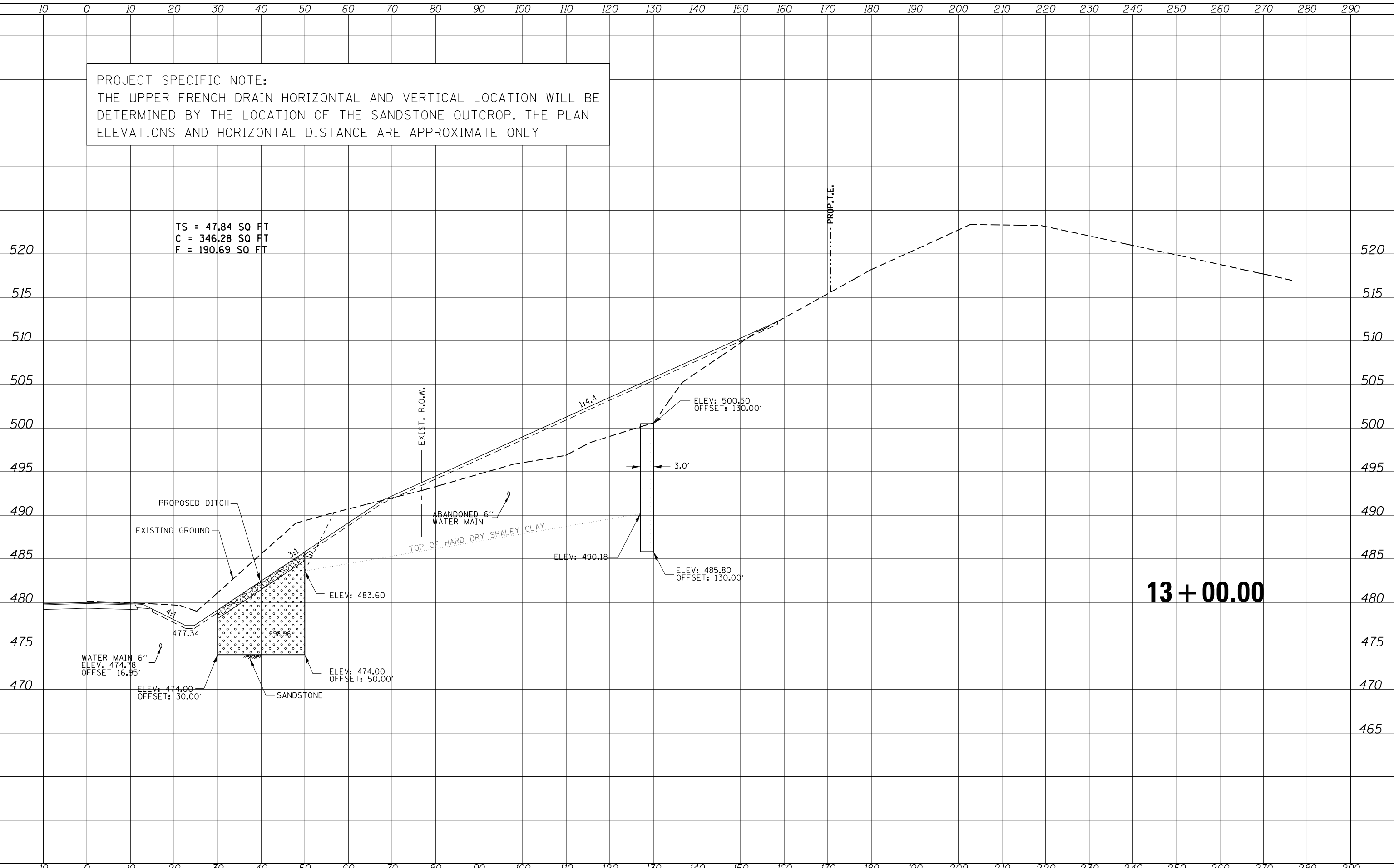
DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
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FILE NAME =	USER NAME = aubreys	DESIGNED -	REVISIED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COUNTY HIGHWAY 11 CROSS SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
US24DuncMillsSlide REVISED SHEET FILE .dgn		DRAWN -	REVISIED -			317	(18)I	FULTON	47	38	
		CHECKED -	REVISIED -			CONTRACT NO. 68A25					
		DATE -	REVISIED -			SCALE:	SHEET	OF	SHEETS	STA. 12+50.00	TO STA. 12+50.00

PROJECT SPECIFIC NOTE:  
 THE UPPER FRENCH DRAIN HORIZONTAL AND VERTICAL LOCATION WILL BE DETERMINED BY THE LOCATION OF THE SANDSTONE OUTCROP. THE PLAN ELEVATIONS AND HORIZONTAL DISTANCE ARE APPROXIMATE ONLY

TS = 47.84 SO FT  
 C = 346.28 SO FT  
 F = 190.69 SO FT



**13 + 00.00**

DATE	
BY	
FINISHED SURVEY	
PLOTTED TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED TEMPLATE	
AREAS CHECKED	
NO.	

FILE NAME =  
 US24DuncMillsSlide REVISED SHEET FILE .dgn

USER NAME = aubreys  
 PLOT SCALE = 20.000' / in.  
 PLOT DATE = 3/21/2013

DESIGNED -	REVISIED -
DRAWN -	REVISIED -
CHECKED -	REVISIED -
DATE -	REVISIED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

COUNTY HIGHWAY 11  
 CROSS SECTIONS  
 SCALE: SHEET OF SHEETS STA. 13+00.00 TO STA. 13+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(18)I	FULTON	47	39
CONTRACT NO. 68A25				
ILLINOIS FED. AID PROJECT				

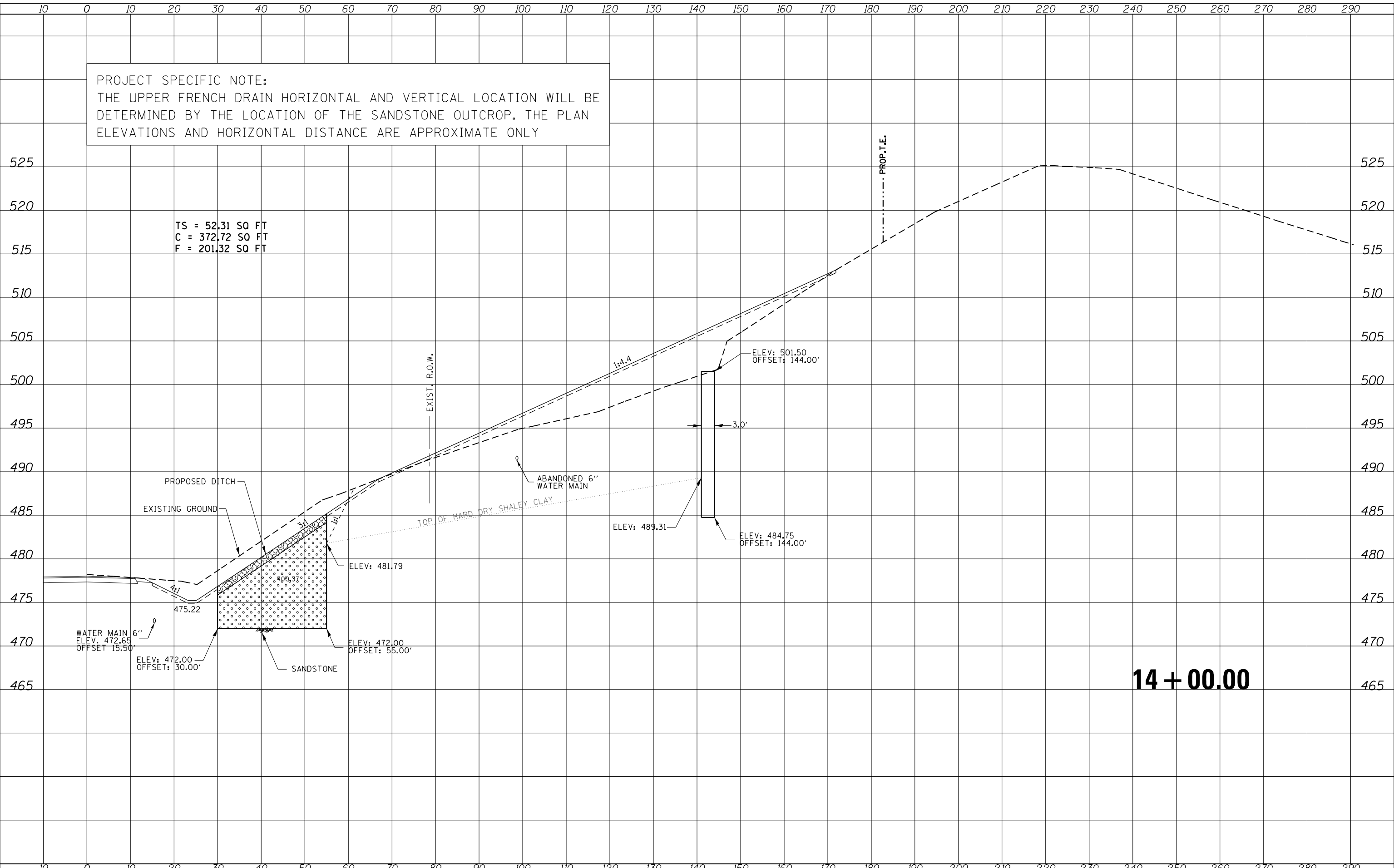




PROJECT SPECIFIC NOTE:  
 THE UPPER FRENCH DRAIN HORIZONTAL AND VERTICAL LOCATION WILL BE DETERMINED BY THE LOCATION OF THE SANDSTONE OUTCROP. THE PLAN ELEVATIONS AND HORIZONTAL DISTANCE ARE APPROXIMATE ONLY

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



FILE NAME = US24DuncMillsSlide REVISED SHEET FILE .dgn

USER NAME = aubreys	DESIGNED -	REVISIED -
	DRAWN -	REVISIED -
PLOT SCALE = 20.000' / in.	CHECKED -	REVISIED -
PLOT DATE = 3/21/2013	DATE -	REVISIED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

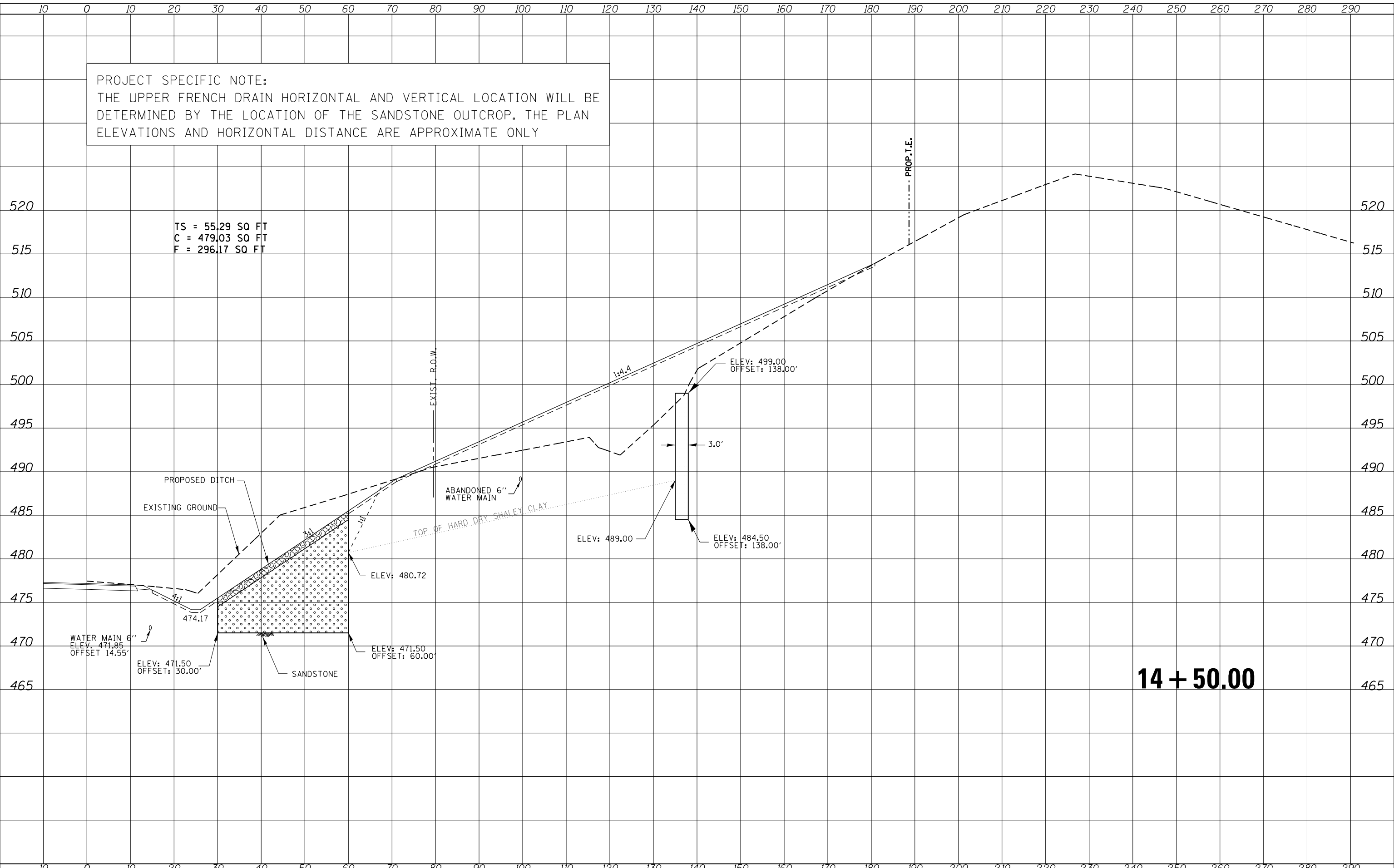
COUNTY HIGHWAY 11	
CROSS SECTIONS	
SCALE:	SHEET OF SHEETS STA. 14+00.00 TO STA. 14+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(18)I	FULTON	47	41
CONTRACT NO. 68A25				
ILLINOIS FED. AID PROJECT				

PROJECT SPECIFIC NOTE:  
 THE UPPER FRENCH DRAIN HORIZONTAL AND VERTICAL LOCATION WILL BE DETERMINED BY THE LOCATION OF THE SANDSTONE OUTCROP. THE PLAN ELEVATIONS AND HORIZONTAL DISTANCE ARE APPROXIMATE ONLY

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



**14 + 50.00**

FILE NAME = US24DuncMillsSlide REVISED SHEET FILE .dgn

USER NAME = aubreys  
 PLOT SCALE = 20.000' / in.  
 PLOT DATE = 3/21/2013

DESIGNED -	REVISIED -
DRAWN -	REVISIED -
CHECKED -	REVISIED -
DATE -	REVISIED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

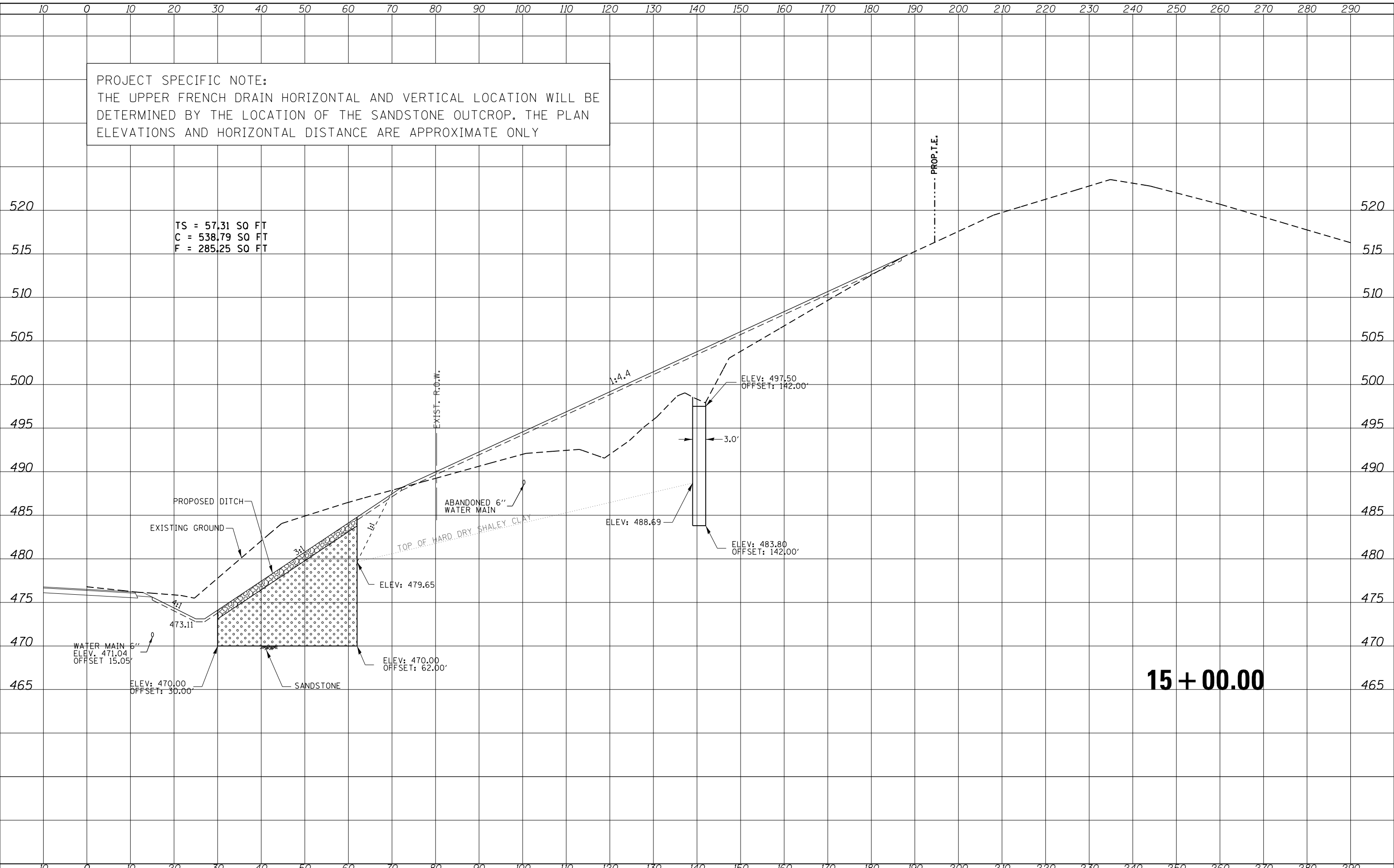
COUNTY HIGHWAY 11  
 CROSS SECTIONS  
 SCALE: SHEET OF SHEETS STA. 14+50.00 TO STA. 14+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(18)I	FULTON	47	42
CONTRACT NO. 68A25				
ILLINOIS FED. AID PROJECT				

PROJECT SPECIFIC NOTE:  
 THE UPPER FRENCH DRAIN HORIZONTAL AND VERTICAL LOCATION WILL BE DETERMINED BY THE LOCATION OF THE SANDSTONE OUTCROP. THE PLAN ELEVATIONS AND HORIZONTAL DISTANCE ARE APPROXIMATE ONLY

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

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



FILE NAME = US24DuncMillsSlide REVISED SHEET FILE .dgn

USER NAME = aubreys  
 PLOT SCALE = 20.000' / in.  
 PLOT DATE = 3/21/2013

DESIGNED -	REVISIED -
DRAWN -	REVISIED -
CHECKED -	REVISIED -
DATE -	REVISIED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

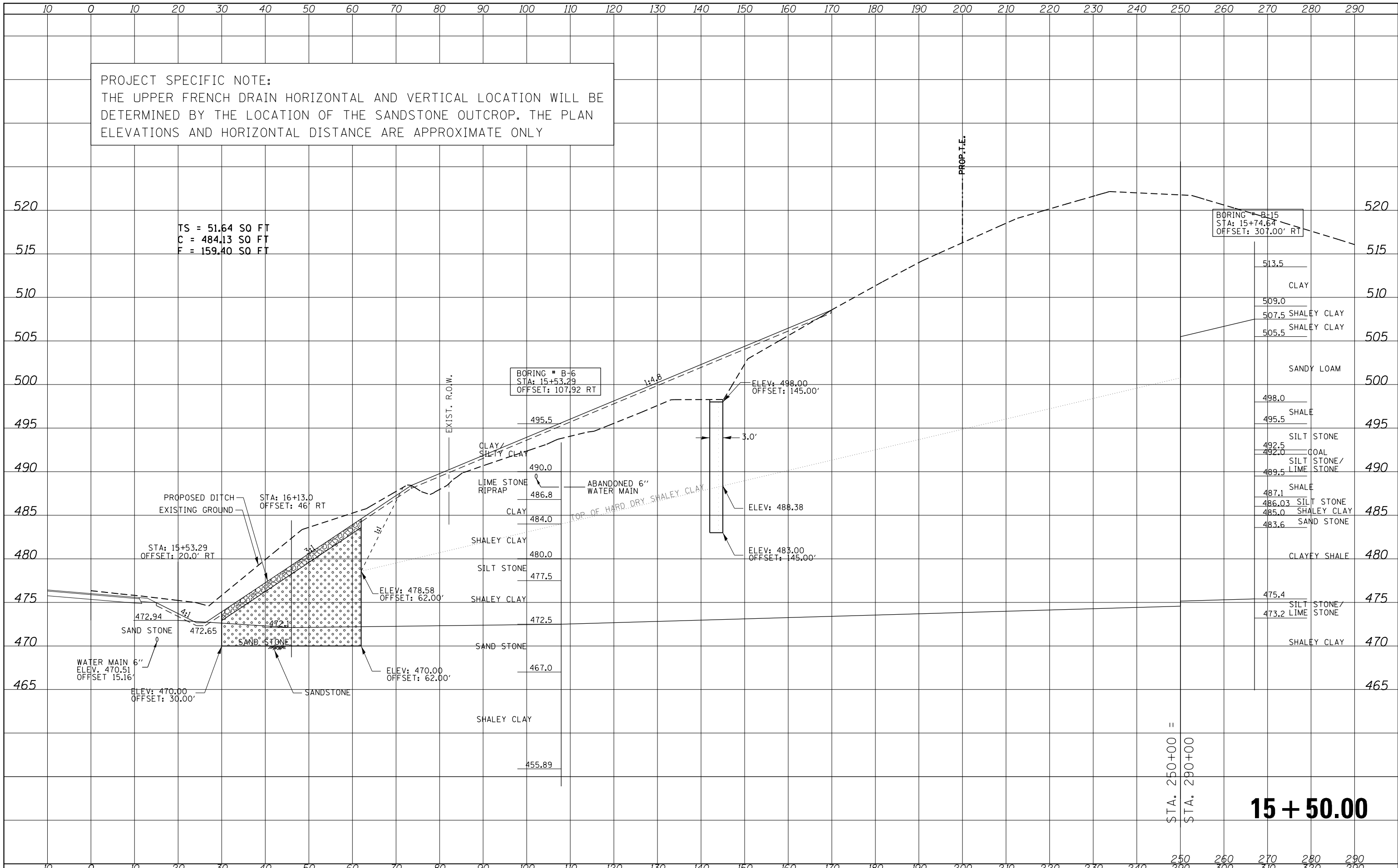
COUNTY HIGHWAY 11  
 CROSS SECTIONS  
 SCALE: SHEET OF SHEETS STA. 15+00.00 TO STA. 15+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(18)I	FULTON	47	43
CONTRACT NO. 68A25				
ILLINOIS FED. AID PROJECT				

PROJECT SPECIFIC NOTE:  
 THE UPPER FRENCH DRAIN HORIZONTAL AND VERTICAL LOCATION WILL BE DETERMINED BY THE LOCATION OF THE SANDSTONE OUTCROP. THE PLAN ELEVATIONS AND HORIZONTAL DISTANCE ARE APPROXIMATE ONLY

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



**15 + 50.00**

FILE NAME = US24DuncMillsSlide REVISED SHEET FILE .dgn

USER NAME = aubreys  
 PLOT SCALE = 20.000' / in.  
 PLOT DATE = 3/21/2013

DESIGNED -	REVISIED -
DRAWN -	REVISIED -
CHECKED -	REVISIED -
DATE -	REVISIED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

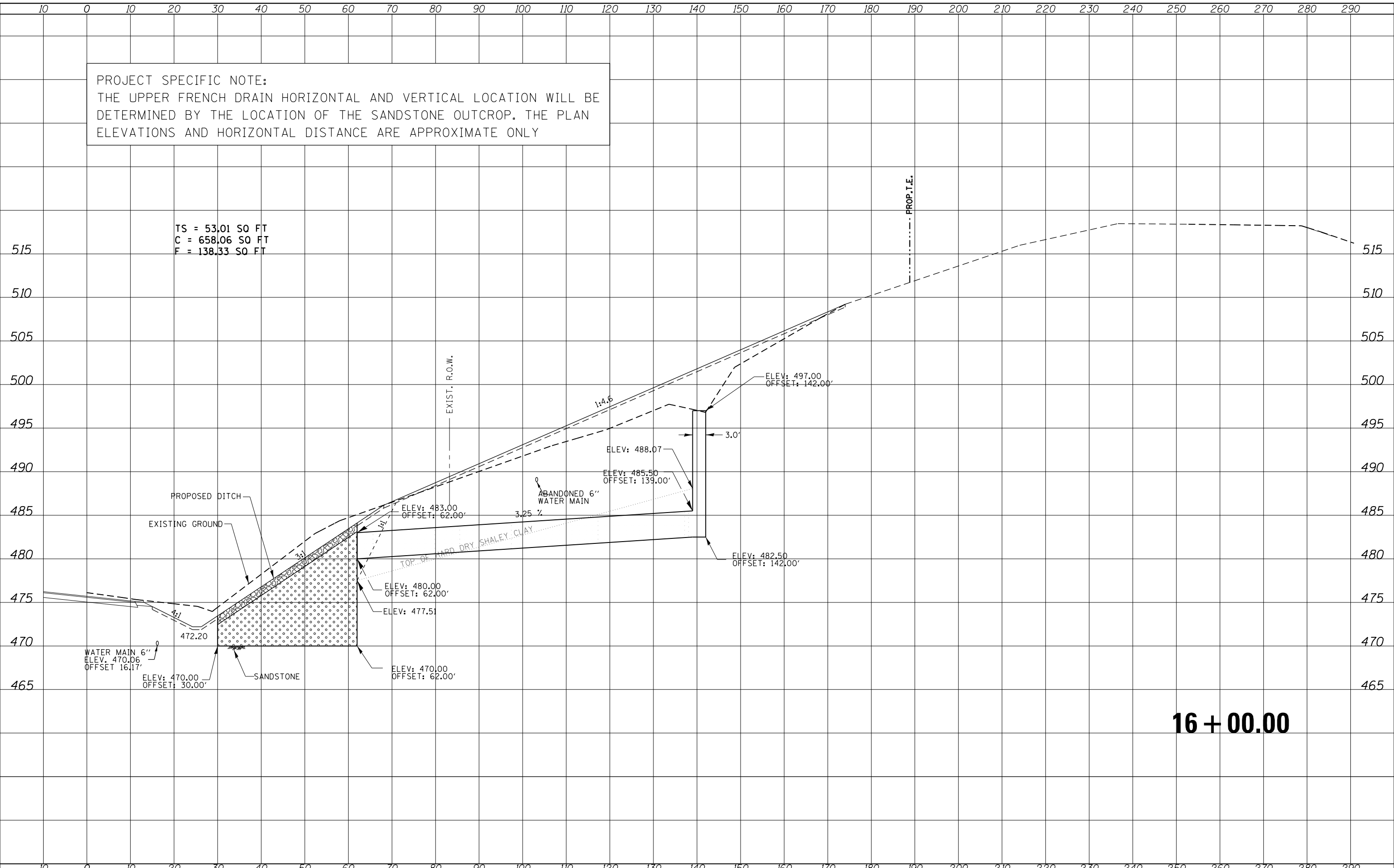
COUNTY HIGHWAY 11  
 CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 15+50.00 TO STA. 15+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(18)I	FULTON	47	44
CONTRACT NO. 68A25				
ILLINOIS FED. AID PROJECT				

PROJECT SPECIFIC NOTE:  
 THE UPPER FRENCH DRAIN HORIZONTAL AND VERTICAL LOCATION WILL BE DETERMINED BY THE LOCATION OF THE SANDSTONE OUTCROP. THE PLAN ELEVATIONS AND HORIZONTAL DISTANCE ARE APPROXIMATE ONLY

TS = 53.01 SO FT  
 C = 658.06 SO FT  
 F = 138.33 SO FT



**16 + 00.00**

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

FILE NAME = US24DuncMillsSlide REVISED SHEET FILE .dgn

USER NAME = aubreys  
 PLOT SCALE = 20.000' / in.  
 PLOT DATE = 3/21/2013

DESIGNED	-	REVISED	-
DRAWN	-	REVISED	-
CHECKED	-	REVISED	-
DATE	-	REVISED	-

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

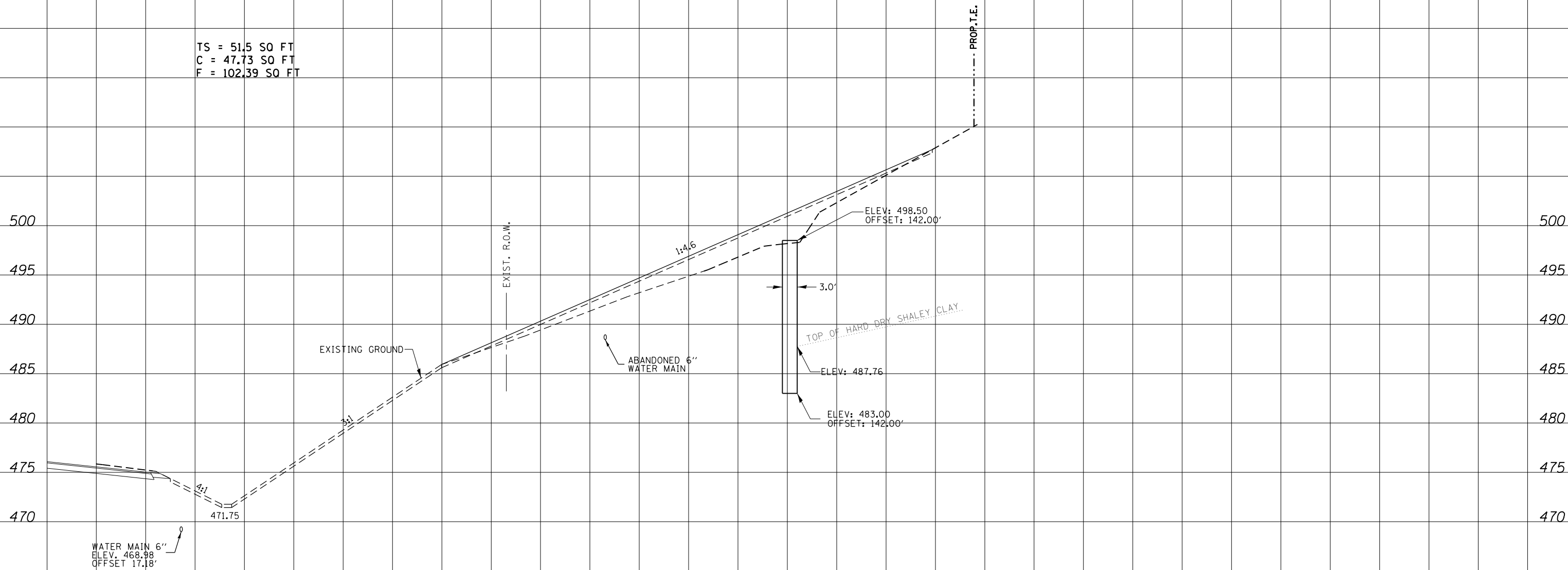
**COUNTY HIGHWAY 11  
 CROSS SECTIONS**

SCALE: SHEET OF SHEETS STA. 16+00.00 TO STA. 16+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(18)I	FULTON	47	45
CONTRACT NO. 68A25				
ILLINOIS FED. AID PROJECT				

PROJECT SPECIFIC NOTE:  
 THE UPPER FRENCH DRAIN HORIZONTAL AND VERTICAL LOCATION WILL BE DETERMINED BY THE LOCATION OF THE SANDSTONE OUTCROP. THE PLAN ELEVATIONS AND HORIZONTAL DISTANCE ARE APPROXIMATE ONLY

TS = 51.5 SQ FT  
 C = 47.73 SQ FT  
 F = 102.39 SQ FT



**16 + 50.00**

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

FILE NAME = US24DuncMillsSlide REVISED SHEET FILE .dgn

USER NAME = aubreys  
 PLOT SCALE = 20.000' / in.  
 PLOT DATE = 3/21/2013

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISED -  
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

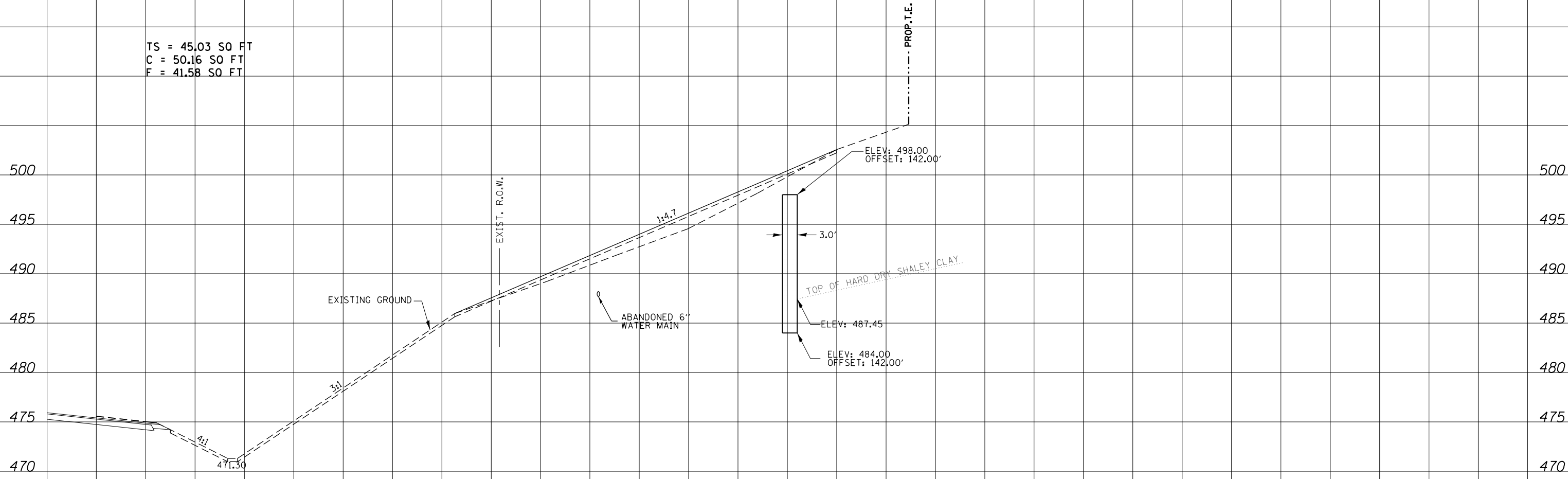
COUNTY HIGHWAY 11  
 CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 16+50.00 TO STA. 16+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
317	(18)I	FULTON	47	46
CONTRACT NO. 68A25				
ILLINOIS FED. AID PROJECT				

PROJECT SPECIFIC NOTE:  
 THE UPPER FRENCH DRAIN HORIZONTAL AND VERTICAL LOCATION WILL BE DETERMINED BY THE LOCATION OF THE SANDSTONE OUTCROP. THE PLAN ELEVATIONS AND HORIZONTAL DISTANCE ARE APPROXIMATE ONLY

TS = 45.03 SQ FT  
 C = 50.16 SQ FT  
 F = 41.58 SQ FT



**17 + 00.00**

DATE	
BY	
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DATE	
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AREAS	
CHECKED	
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