

08-04-2017 LETTING ITEM 038

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FOR INDEX OF SHEETS, SEE SHEET NO. 2

HIGHWAY STANDARDS

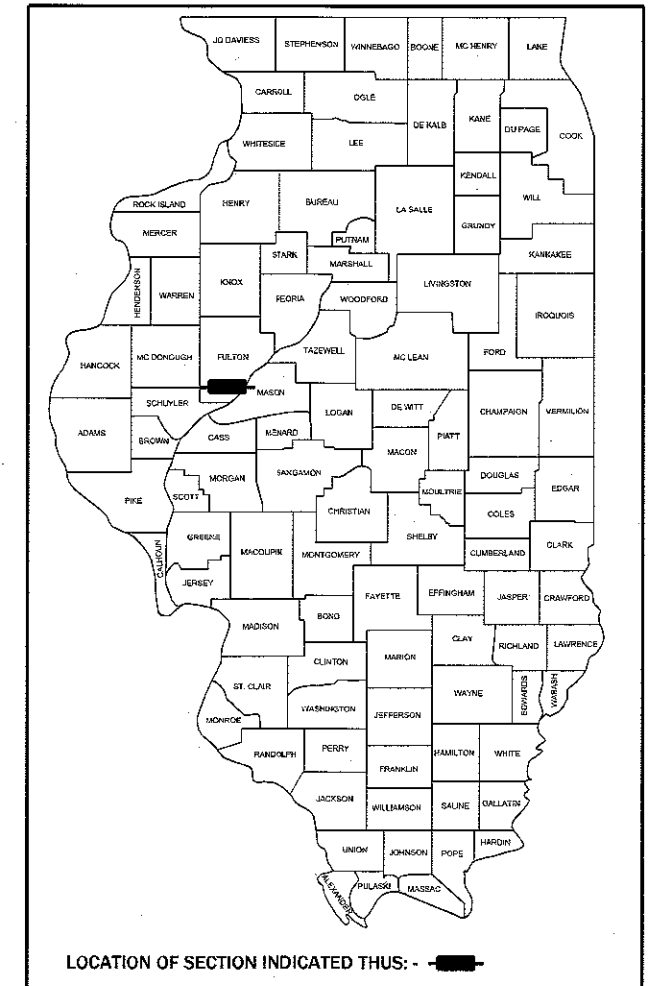
- 280001-07
- 542401-02
- 701001-02
- 701006-05
- 701201-04
- 701301-04
- 701901-06

PROPOSED HIGHWAY PLANS

F.A.S. ROUTE 457 (CH31)
SECTION (11)CLV
CONTRACT MAINTENANCE
FULTON COUNTY

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
457	(11)CLV	FULTON	10	1
		ILLINOIS	CONTRACT NO. 68D47	

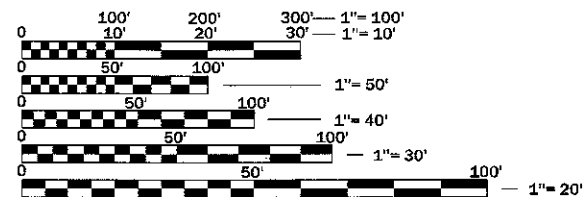
D-94-013-17



C-94-026-17

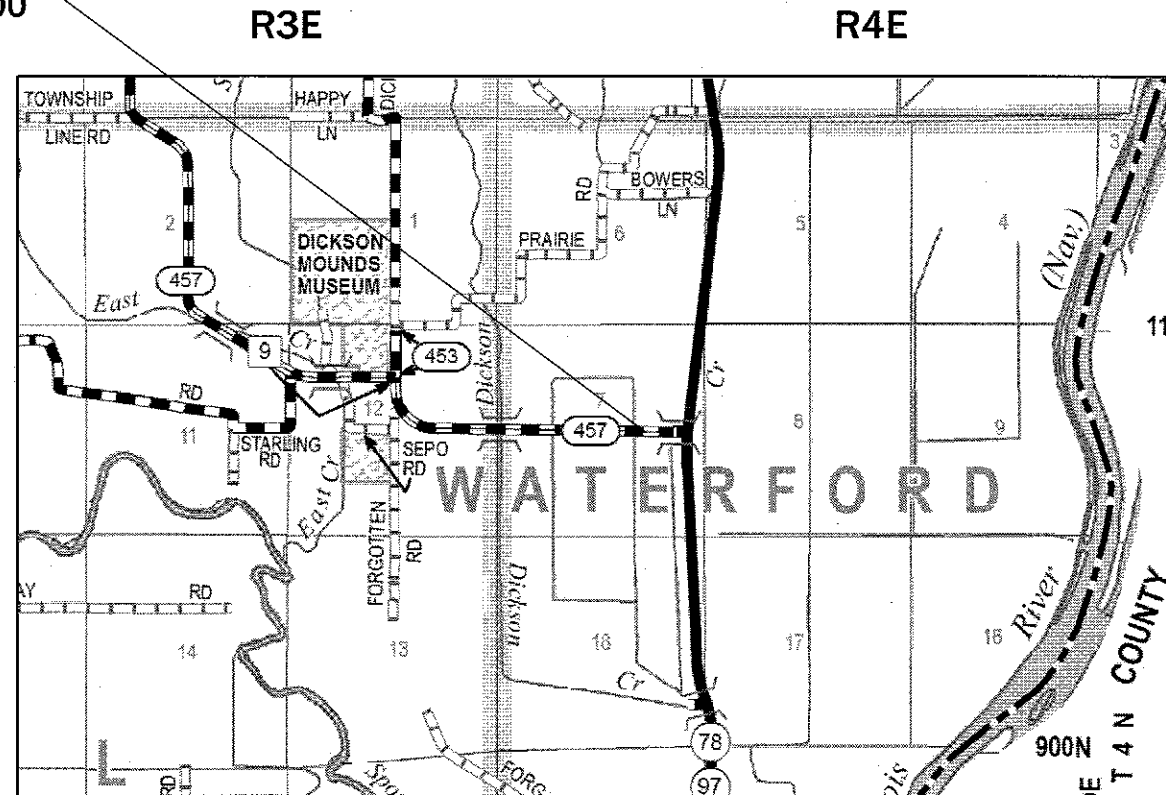
COUNTY HIGHWAY 31
IMPROVEMENT BEGINS STA. 72+00
IMPROVEMENT ENDS STA. 72+80

ADT = 600 (2015)
SU = 3.33%
MU = 1.67%



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



T4N

PROJECT ENGINEER RICH DOTSON (309-671-3455)
PROJECT MANAGER CHAD LANGAN /KEVIN HORST (309-671-3472)

CATALOG NO. 035437-00D
CONTRACT NO. 68D47

GROSS LENGTH = 80.0 FT. = 0.015 MILE
NET LENGTH = 80.0 FT. = 0.015 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED *May 24 2017*
Kennel A. Garnett
REGION THREE ENGINEER

June 30 2017
Maureen M. Addis, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

June 30 2017
DIRECTOR OF PROGRAM DEVELOPMENT

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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6. SCHEDULE OF QUANTITIES
7. PROPOSED PLAN SHEET
8. PIPE END TREATMENT DETAIL
9. CROSS SECTION
10. DISTRICT CADD STANDARDS

PROJECT SPECIFIC NOTES

1. Before insertion of the culvert liner, the existing culvert shall be inspected. Any voids outside the existing culvert shall be filled with controlled low-strength material prior to the liner installation. The controlled low-strength material shall be placed by means of a pump. This work shall be paid for according to Article 109.04 of the Standard Specifications.
2. U.S. Fish and Wildlife Service owns the property on each side of CH 31 at the culvert. Notify U.S. Fish and Wildlife Service two weeks prior to beginning construction.

The contact at the U.S. Fish and Wildlife Service is:

Bob Barry – Wildlife Refuge Manager
19031 E CR 2110 N, Havana, IL 62644
bob_barry@fws.gov
(309) 535-2290
3. A cofferdam will be required at each end of the culvert. Dewatering shall be included in the cost of the cofferdams. The proposed cofferdam at the downstream (south end) of the culvert is not required to be large enough for the placement of the proposed rip rap. Much of the proposed rip rap may be placed in the water after the cofferdam is removed.
4. The contractor shall verify existing ground and existing water surface elevations at the proposed cofferdam locations prior to the design of the cofferdams. This work shall be included in the cost of the cofferdams.

GENERAL NOTES

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.

PROPERTY OWNER ACCESS REQUIREMENT

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.

The required environmental resource documentation shall include the following:

- BDE Form 2289 (Cultural and Natural Resources Review of Borrow Areas)
- BDE Form 2290 (Waste/Use Area Review)
- A location map showing the size limits and location of the use area
- Color photographs depicting the use area
- Borrow Area Entry Agreement form *D4 PI0101

Prior to any waste materials being removed from the construction site the required environmental resource surveys shall 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.

Please note that a minimum of four weeks shall be allowed for the District to obtain the required waste site environmental clearances and six weeks for the required borrow site environmental clearances.

ORDERING LENGTH CONFIRMATION – DRAINAGE ITEMS

The Contractor shall consult with the Engineer in regard to the exact length of the box/pipe culverts, storm sewers, and/or pipe drains required prior to ordering these items.

FILE NAME =	USER NAME = jlangan	DESIGNED - CML	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, GENERAL NOTES, AND PROJECT SPECIFIC NOTES	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
D:\PDS\GEN\MIN\WORD\STD&PLNS\Sched03\Disc	son Mounds Rd. and IL 78 Issues January 201	DRWING\Drafting\EM\Edgn	REVISED -			457	(11)CLV	FULTON	10	2	
Culvert at Sta. 72+47			CHECKED -			CONTRACT NO. 68D47					
			REVISED -			ILLINOIS FED. AID PROJECT					
	PLOT SCALE = 100.0000' / 1" =	DATE -	REVISED -	SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	
	PLOT DATE = 6/29/2017										

REV

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONST. CODE
				100% STATE ROADWAY RURAL 0004
20400800	FURNISHED EXCAVATION	CU YD	113	113
21101615	TOPSOIL FURNISH & PLACE, 4"	SO YD	1009	1009
25000300	SEEDING, CLASS 3	ACRE	0.2	0.2
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	19	19
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	19	19
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	19	19
25003326	INTERSEEDING, CLASS 5C	ACRE	0.2	0.2
25100630	EROSION CONTROL BLANKET	SO YD	1009	1009
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	42	42
28000400	PERIMETER EROSION BARRIER	FOOT	172	172
28100209	STONE RIPRAP, CLASS A5	TON	28	28
28200200	FILTER FABRIC	SO YD	53	53
50201121	COFFERDAM (TYPE 2) (LOCATION-1)	EACH	1	1
50105220	PIPE CULVERT REMOVAL	FOOT	10	10
50201122	COFFERDAM (TYPE 2) (LOCATION-2)	EACH	1	1
54215583	METAL END SECTIONS 48"	EACH	1	1

FILE NAME = Drafting File.dgn	USER NAME = aubreygs	DESIGNED - CML	REVISED -
		DRAWN - CML	REVISED -
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/26/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
457	(11)CLV	FULTON	10	3
				CONTRACT NO. 68D47
ILLINOIS FED. AID PROJECT				

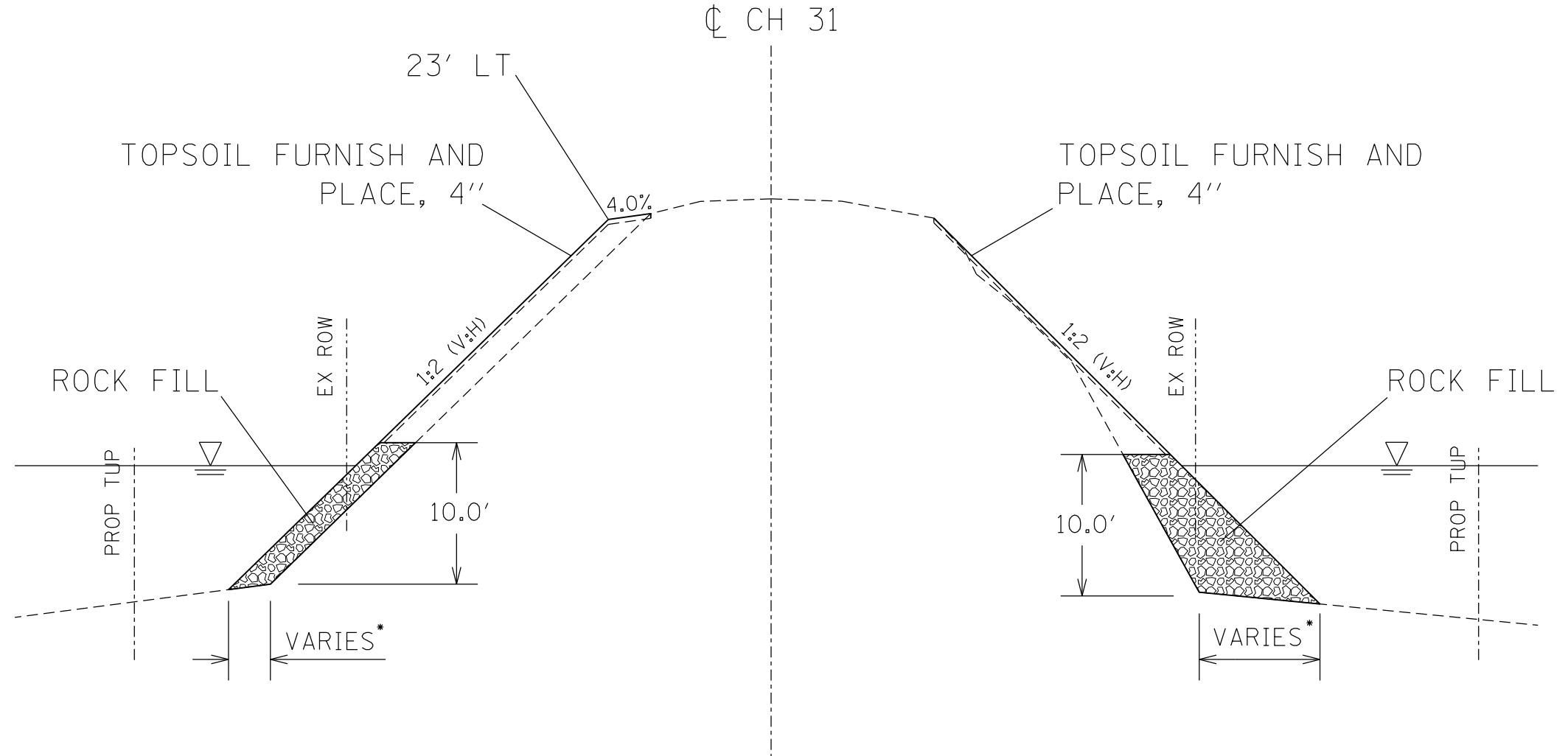
REV

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONST. CODE
				100% STATE
				ROADWAY
				RURAL 0004
54203403	PIPE CULVERTS, CLASS D, TYPE 5 48"	FOOT	9	9
54390260	INSERTION CULVERT LINER 48"	FOOT	132	132
59300100	CONTROLLED LOW - STRENGTH MATERIAL	CU YD	27	27
67100100	MOBILIZATION	L SUM	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
* Z0054500	ROCK FILL	TON	642	642

*** SPECIALTY ITEMS**

FILE NAME = Drafting File.dgn	USER NAME = aubreygs	DESIGNED - CML	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100,0000 ' / 1"	DRAWN - CML	REVISED -			457	0111CLV	FULTON	10	4
	PLOT DATE = 5/26/2017	CHECKED -	REVISED -			CONTRACT NO. 68D47				
	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							

REV



TYPICAL SECTION

STA. 72+00.0 - STA. 72+43.5 (RT & LT)
 STA. 72+50.5 - STA. 72+80.0 (RT & LT)

(LOOKING EAST)

* VARIES BASED ON EXISTING SIDE SLOPE

FILE NAME =	USER NAME = \$USER*	DESIGNED - CML	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTION			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILEL		DRAWN - CML	REVISED -		457	(11)CLV	FULTON	9	5			
MODELNAME		CHECKED -	REVISED -		CONTRACT NO. 68D47							
		DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT

EARTHWORK SCHEDULE						
LOCATION				20400800 FURNISHED EXCAVATION	Z0054500 ROCK FILL	
CH 31				LT/RT	CU YD	TON
STA	72+00.00	TO	72+80.00	LT	95.8	191.0
STA	72+00.00	TO	72+80.00	RT	16.7	450.6
TOTALS					113	642

RIPRAP SCHEDULE						
LOCATION				28100207 STONE RIPRAP, CLASS A5	28200200 FILTER FABRIC	
CH 31				LT/RT	TON	SQ YD
STA	72+39.50	TO	72+54.50	LT		
STA	72+39.50	TO	72+54.50	RT	27.5	52.7
TOTALS					28	53

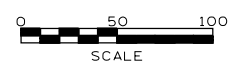
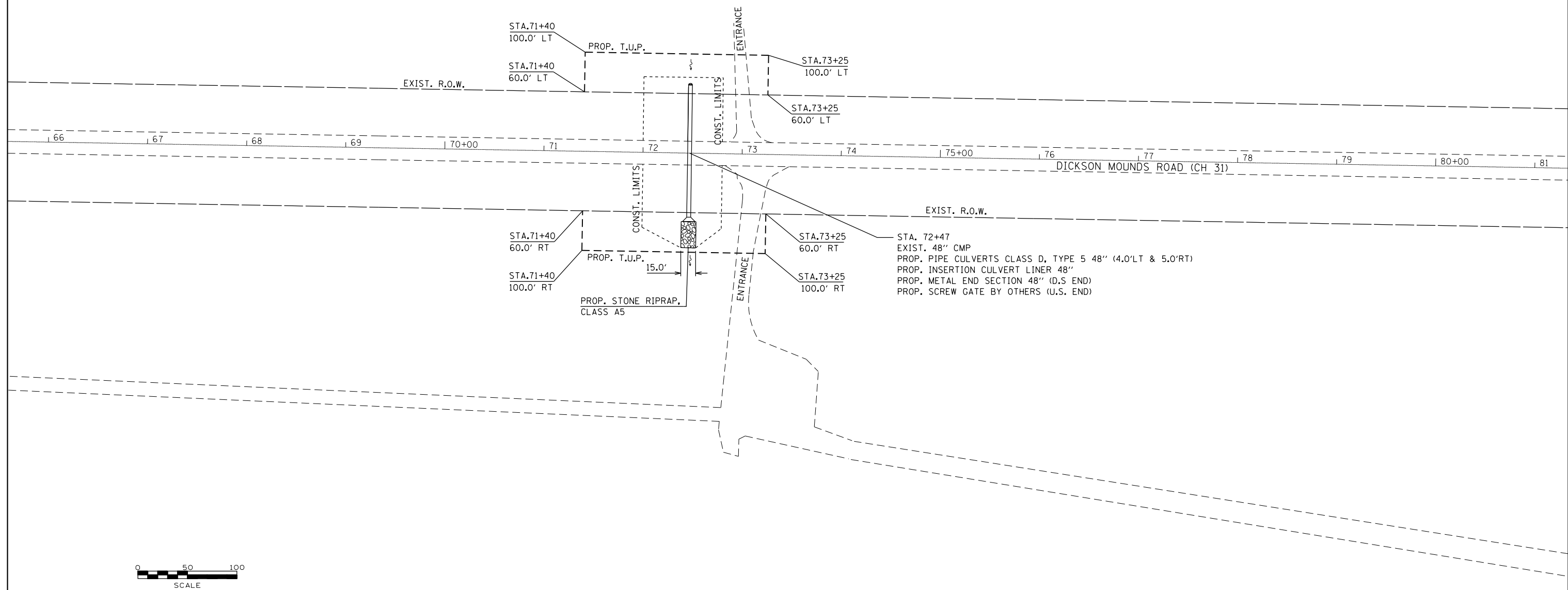
COFFERDAM SCHEDULE				
LOCATION			50201121 COFFERDAM (TYPE 2) (LOCATION-1)	50201122 COFFERDAM (TYPE 2) (LOCATION-2)
CH 31			LT/RT	EACH
STA	72+47.00	TO	LT	1.0
STA	72+47.00	TO	RT	1.0
TOTALS				1

SEEDING SCHEDULE												
LOCATION				21101615 TOPSOIL FURNISH & PLACE, 4"	25000300 SEEDING, CLASS 3	25003326 INTERSEEDING, CLASS 5C	25000400 NITROGEN FERTILIZER NUTRIENT	25000500 PHOSPHORUS FERTILIZER NUTRIENT	25000600 POTASSIUM FERTILIZER NUTRIENT	25100630 EROSION CONTROL BLANKET	28000250 TEMPORARY EROSION CONTROL SEEDING	
CH 31				LT/RT	SQ YD	ACRE	ACRE	POUND	POUND	POUND	SQ YD	POUND
STA	72+00.00	TO	72+80.00	LT	522.7	0.11	0.11	9.9	9.9	9.9	522.7	22.0
STA	72+00.00	TO	72+80.00	RT	485.8	0.10	0.10	9.0	9.0	9.0	485.8	20.0
TOTALS					1,009	0.2	0.2	19	19	19	1009	42

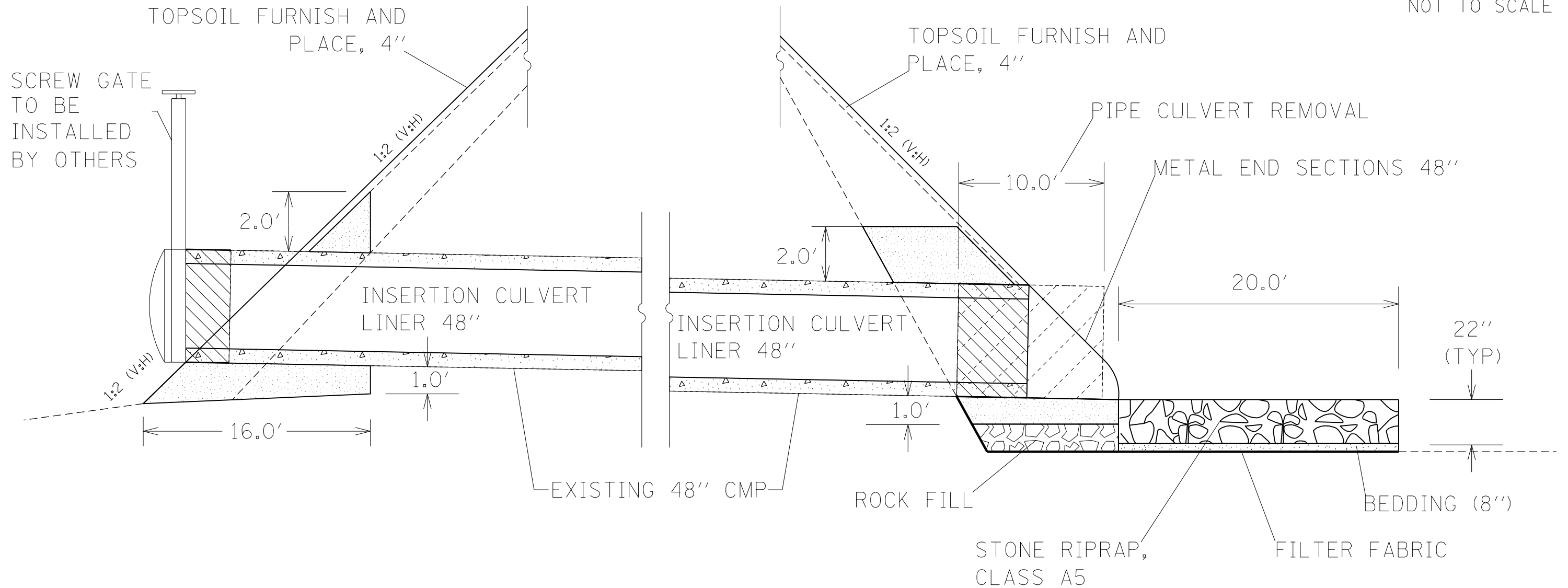
TRAFFIC CONTROL SCHEDULE	
70100450 TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	
LOCATION	L SUM
JOBSITE	1
TOTAL	1

DRAINAGE SCHEDULE								
LOCATION			50105220 PIPE CULVERT REMOVAL	54215583 METAL END SECTIONS 48"	542D3403 PIPE CULVERTS, CLASS D, TYPE 5 48"	54390260 INSERTION CULVERT LINER 48"	59300100 CONTROLLED LOW-STRENGTH MATERIAL	
CH 31			LT/RT	FOOT	EACH	FOOT	FOOT	CU YD
STA	72+47.00	TO	RT	10.0	1.0	5.0		
STA	72+47.00	TO	LT			4.0		
STA	72+47.00	TO	LT/RT				131.8	
STA	72+43.50	TO	72+50.50	LT				13.8
STA	72+43.50	TO	72+50.50	RT				13.5
TOTALS				10	1	9	132	27

EROSION CONTROL SCHEDULE						
LOCATION					28000400 PERIMETER EROSION BARRIER	
CH31					LT/RT	FOOT
STA	72+00.00	TO	72+80.00	LT	80.0	
STA	72+00.00	TO	72+80.00	RT	91.6	
TOTAL					172	



FILE NAME =	USER NAME = \$USER*	DESIGNED - CML	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DICKSON MOUNDS RD. PROPOSED PLAN			F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILEL		DRAWN - CML	REVISED -					457	(11)CLV	FULTON	10	7
MODELNAME		CHECKED -	REVISED -		CONTRACT NO. 68D47			ILLINOIS FED. AID PROJECT				
		DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	



PIPE END DETAIL

STA. 72+47
(LOOKING EAST)

NOTES

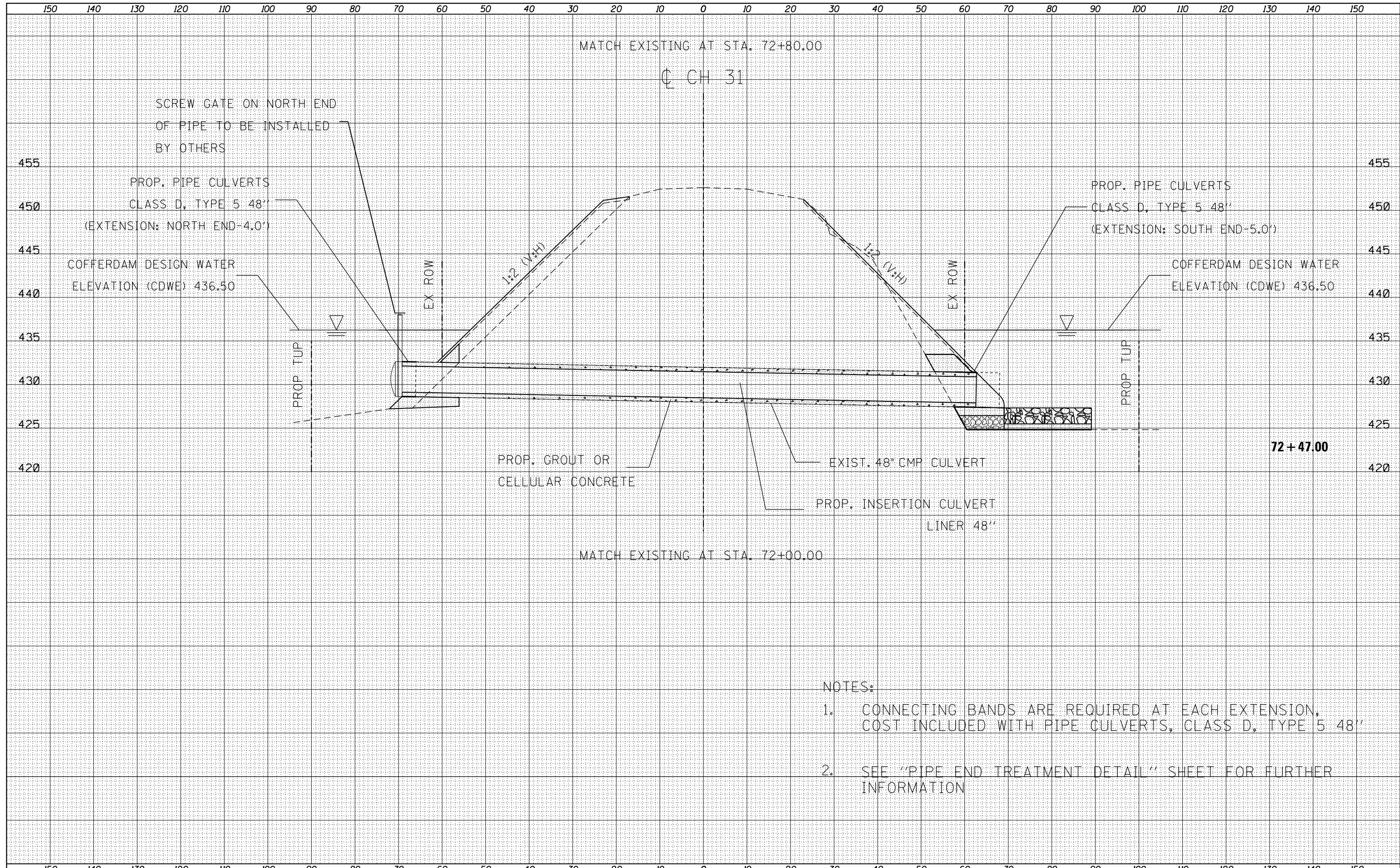
1. AN IMPERVIOUS CONTROLLED LOW-STRENGTH MATERIAL SHALL BE USED AT THE ENDS OF THE CULVERT AS SHOWN. THE MIX DESIGN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL 1 WEEK PRIOR TO PLACEMENT.
2. CONTROLLED LOW-STRENGTH MATERIAL AND ROCK FILL SHOWN HERE SHALL EXTEND 1.5' ON THE EAST AND WEST SIDES OF THE CULVERT.
3. GROUT THE RIPRAP AT THE OUTLET.

CULVERT REMOVAL	
GROUT OR CELLULAR CONCRETE (INCLUDED IN COST OF INSERTION CULVERT LINER)	
PIPE CULVERTS 48" EXTENSION	
CONTROLLED LOW-STRENGTH MATERIAL	

FILE NAME =	USER NAME = \$USER*	DESIGNED - CML	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PIPE END TREATMENT DETAIL			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
\$FILEL\$		DRAWN - CML	REVISED -		457	(11)CLV	FULTON	10	8			
\$MODELNAME\$		CHECKED -	REVISED -		CONTRACT NO. 68D47							
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT							
				SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.		

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

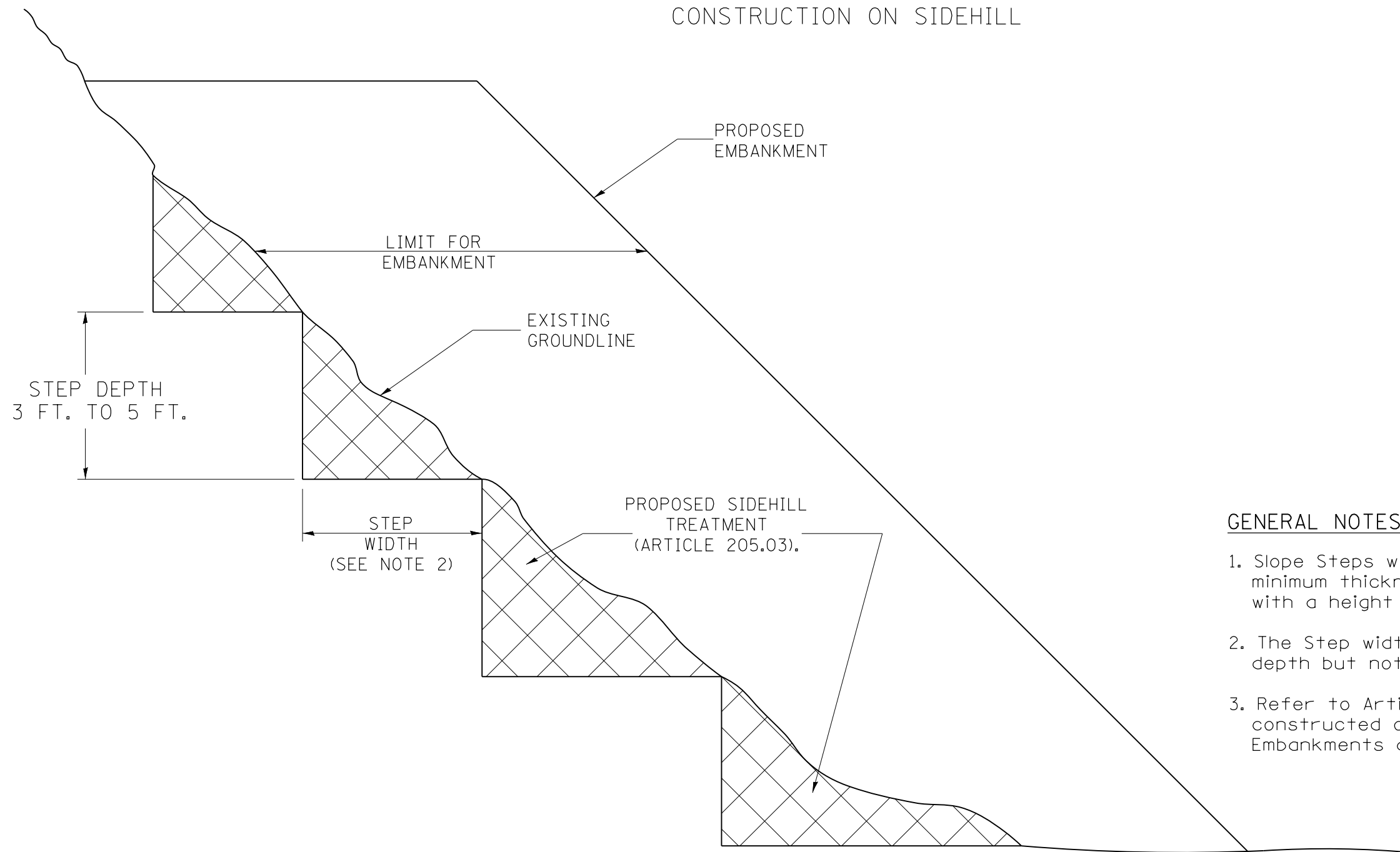
DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	



- NOTES:
- CONNECTING BANDS ARE REQUIRED AT EACH EXTENSION, COST INCLUDED WITH PIPE CULVERTS, CLASS D, TYPE 5 48"
 - SEE "PIPE END TREATMENT DETAIL" SHEET FOR FURTHER INFORMATION

SLOPE STEPS DETAIL

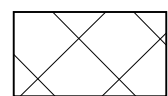
TYPICAL CROSS-SECTION EMBANKMENT CONSTRUCTION ON SIDEHILL



GENERAL NOTES:

1. Slope Steps will be required for all 12(300) minimum thickness "sliver fills" and on a fills with a height of 10 feet or greater.
2. The Step width shall be twice the Step depth but not less than 6 feet.
3. Refer to Article 205.03 for Embankment to be constructed on Hillside or Slopes, or if existing Embankments are to be widened.

REPLACEMENT MATERIAL:



STANDARD EMBANKMENT
(IN ACCORDANCE WITH
205 OF THE STANDARD SPECIFICATION).

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

1-1-97	RENUM. L-5.03, NEW REVISION BOX, REVISED TITLE	T.P.
	BOX, REVISED GENERAL NOTES.	
10-16-06	REVISED TO 2007 SPEC.	M.A.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SLOPE STEPS DETAIL

NOT TO SCALE

CADD STD. 205001-D4

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
457	(11)CLV	FULTON	10	10
CONTRACT NO. 68D47				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		