

1-17-14 LETTING ITEM 046

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

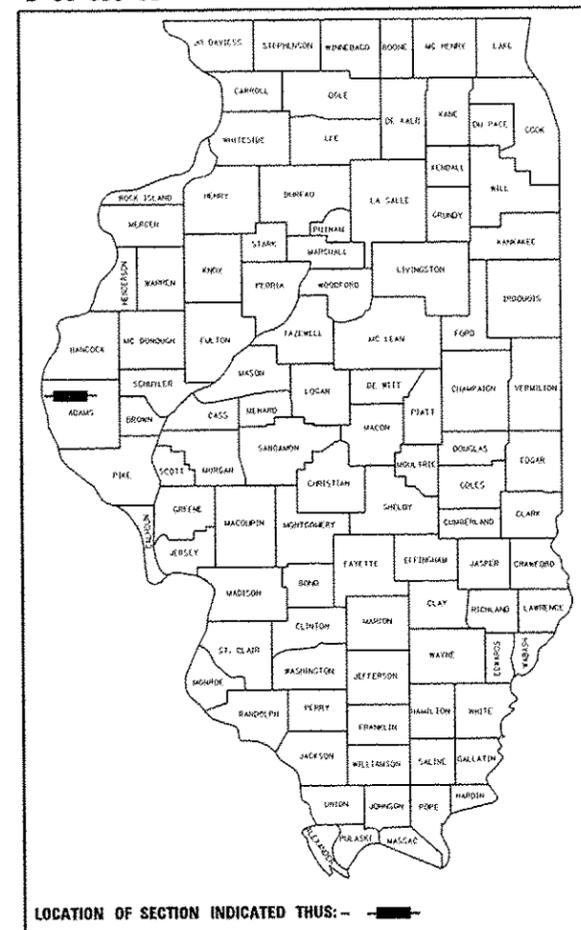
PROPOSED
HIGHWAY PLANS

FAP ROUTE 63 (US 24)
SECTION (1)CR-1, (2)CR
PROJECT ACF-0063 (061)
STRUCTURE RECONSTRUCTION
ADAMS COUNTY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
63	(1)CR-1, (2)CR	ADAMS	43	1
FED. ROAD DIST. NO. 6		ILLINOIS	CONTRACT NO. 72C12	

FOR INDEX OF SHEETS, AND HIGHWAY STANDARDS SEE SHEET NO. 2

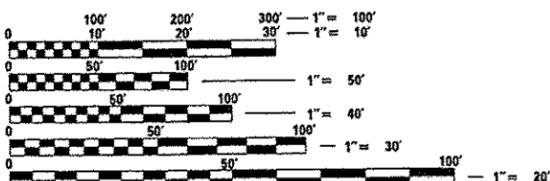
D-96-086-08



STA. 2259+94.00 (45° SKEW LT AH)
PROPOSED S.N. 001-2509 (FRAZIER CREEK TRIBUTARY)
REINFORCED CONCRETE BOX CULVERT
12'x6' LENGTH=123.1' (OUT TO OUT HEADWALLS)

STA. 2255+86.15 (45° SKEW RT AH)
PROPOSED S.N. 001-7129 (FRAZIER CREEK TRIBUTARY)
REINFORCED CONCRETE BOX CULVERT
10'x6' LENGTH=118.8' (OUT TO OUT HEADWALLS)

DESIGN DESIGNATION:
FAP 63
MINOR ARTERIAL (NON-URBAN)
ADT = 3650 (2012)
PV=87.12%
SU=4.66%
MU=8.22%

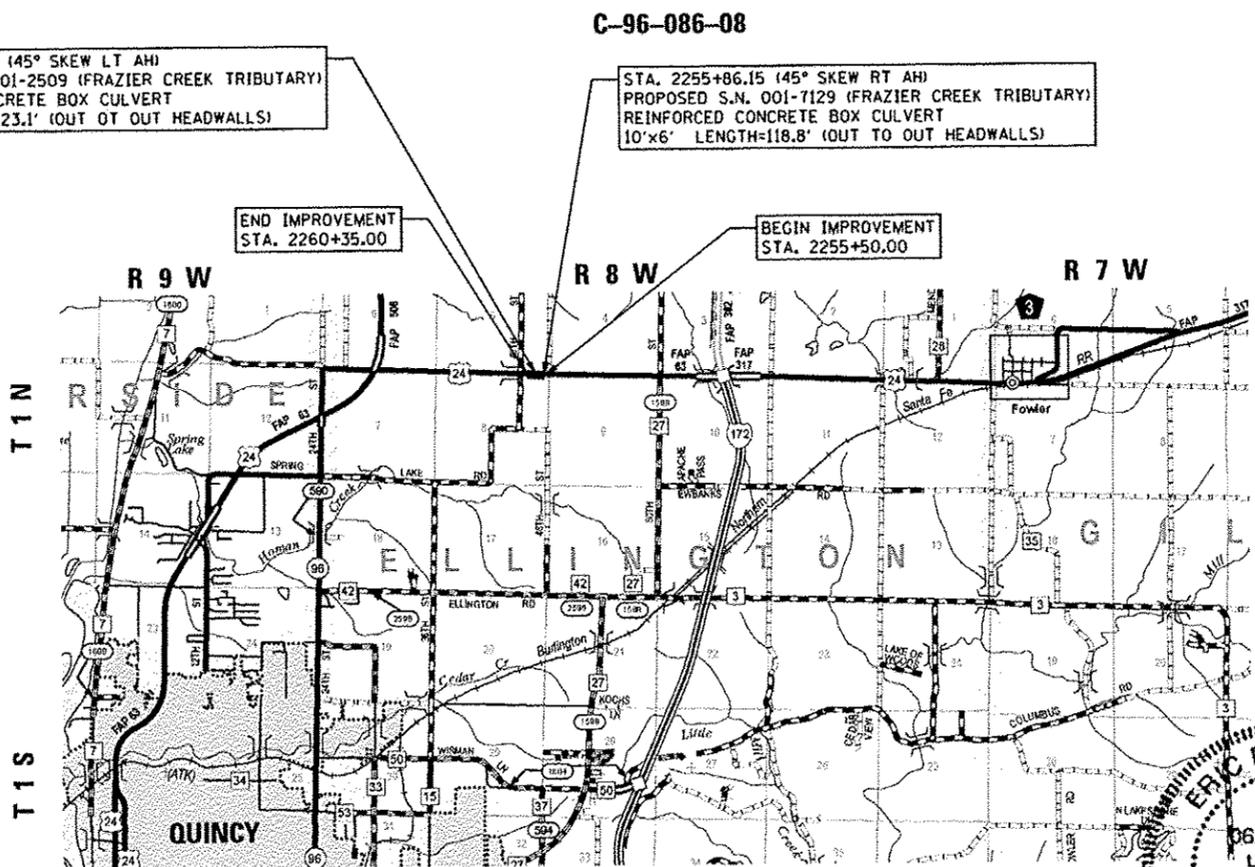


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

SENIOR TEAM ENGINEER: MARK DUST (217) 785-0597
TEAM MANAGER: KEN ANDERSON (217) 524-7546

CONTRACT NO. 72C12



LOCATION MAP
SCALE: 1" = 4000'

GROSS/NET LENGTH OF SECTION = 485.00 FT = 0.092 MILES

ERIC B. BARNES
062-052141
LICENSED PROFESSIONAL ENGINEER
Eric B. Barnes
ILLINOIS
DATE 10/21/13
REGISTERED PROFESSIONAL ENGINEER
STATE OF ILLINOIS NO. 062-052141
LICENSE EXPIRES NOVEMBER 30, 2015

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
SUBMITTED October 25 2013
Ragan L. Priskell
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
Dec 6 2013
John D. Baranzelli, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT
Dec 6 2013
Omar Osman, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PLANS PREPARED BY:
KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors
616 North 24th Street, Quincy, IL
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INDEX OF SHEETS

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STANDARDS

STANDARD NOS.			
000001-06	666001-01	701201-04	BLR 22-7
280001-07	701001-02	701901-03	
442201-03	701006-05	780001-04	
515001-03	701011-04	BLR 21-9	

RATES OF APPLICATION TABLE

AGGREGATE (SURFACE, BASE, SUBBASE, OR BACKFILL)	2.05 TON / CU YD
STONE DUMPED RIPRAP	1.50 TON / CU YD
HOT-MIX ASPHALT:	
BITUMINOUS MATERIALS (PRIME COAT)	0.00038 TON / SQ YD (on pavement)
BITUMINOUS MATERIALS (PRIME COAT)	0.001425 TON / SQ YD (on aggregate)
AGGREGATE PRIME COAT	0.002 TON / SQ YD
SURFACE / BINDER (112 lbs)	0.056 TON / SQ YD • IN
SEEDING AREAS:	
MULCH METHOD	2.0 TON / ACRE
AGRICULTURAL GROUND LIMESTONE	2.0 TON / ACRE
NITROGEN FERTILIZER NUTRIENT	90 LB / ACRE
PHOSPHORUS FERTILIZER NUTRIENT	90 LB / ACRE
POTASSIUM FERTILIZER NUTRIENT	90 LB / ACRE
TEMPORARY EROSION CONTROL SEEDING	100 LB / ACRE

COMMITMENTS

- FIELD/RESIDENT ENGINEER SHALL CONTACT STUDIES AND PLANS CONCERNING ANY MAJOR PLAN CHANGE TO MAKE SURE NO PREVIOUS COMMITMENTS (NOT LISTED) WERE MADE AFFECTING THE DESIGN, AND ALLOW AN IMPROVED DESIGN FOR FUTURE PROJECTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FOLLOWING THE REQUIREMENTS OF AN NPDES STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY FOR THIS PROJECT.

GENERAL NOTES

- THE THICKNESS OF BITUMINOUS MIXTURES SHOWN ON THE PLANS IS NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
- THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AUTHORIZED AGENT, OR LAND SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. WHERE SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUB-SECTION MONUMENTS DESTROYED BY HIS OPERATIONS.
- ALL DISTURBED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE SEEDED, FERTILIZED, AND MULCHED AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER.
- DO NOT INCLUDE MULCH OR EMULSIFIED ASPHALT ON EROSION CONTROL BLANKET AREAS.
- THE LOCATION OF BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE, AND ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVE GROUND UTILITY LOCATIONS, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS ASSOCIATED WITH BURIED AND ABOVE GROUND UTILITIES, REMAINS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUB-NUMBER IN THE INDEX OF SHEETS.
- ANY EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION WILL BE REMOVED OR RELOCATED AS DIRECTED BY THE ENGINEER. AFTER THE CONSTRUCTION IS COMPLETED, THE CONTRACTOR WILL REPLACE THE SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT AND NO COMPENSATION WILL BE ALLOWED.
- THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

LOCATION(S):	US 24
MIXTURE USE(S):	PATCHING
AC/FC:	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N DESIGN=50
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL 19.0
FRICTION AGGREGATE	N/A

GENERAL NOTES

- SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED SHALL BE DETERMINED BY THE ENGINEER.
- ACCESS TO ALL SIDEROADS SHALL BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE NOTED IN THE PLANS.
- SHOULD THE CONTRACTOR REQUEST OLD/EXISTING STRUCTURE PLANS, THEY CAN CONTACT THE SENIOR TEAM ENGINEER OR TEAM MANAGER AS SHOWN ON THE COVER SHEET.
- IN ADDITION TO FIELD SURVEYS, PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING FACILITIES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD. SUCH VARIATIONS SHALL NOT BE A CAUSE FOR ADDITIONAL COMPENSATION DUE TO A CHANGE IN THE SCOPE OF WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
- ALL SAW CUTS NECESSARY TO COMPLETE THE WORK IN THESE PLANS SHALL BE INCLUDED IN THE COST FOR THE VARIOUS PAY ITEMS INVOLVED. THE MINIMUM SAW CUT DEPTH IN THE PAVEMENT SHALL BE 1 1/2" UNLESS OTHERWISE SPECIFIED IN A DETAIL SHOWN IN THE PLANS.
- UNLESS DIRECTED BY THE ENGINEER, PAVEMENT MARKING LINES SHALL NOT BE LAID DIRECTLY OVER A LONGITUDINAL CRACK OR JOINT NOR OVER A TAR OR ASPHALT PAINTED LINE. THE EDGE OF A CENTERLINE OR LANE LINE SHALL BE OFFSET A MINIMUM DISTANCE OF 2" FROM A LONGITUDINAL CRACK OR JOINT. EDGE LINES SHALL BE APPROXIMATELY 2" FROM THE EDGE LINE OF PAVEMENT. SEE SECTION 780 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.

DISTRICT SIX	
EXAMINED <u>10/11</u>	20 <u>13</u>
<i>Bill on Boy</i>	
OPERATIONS ENGINEER	
EXAMINED <u>OCT 16</u>	20 <u>13</u>
<i>Jimmy Lee</i>	
PROJECT IMPLEMENTATION ENGINEER	
EXAMINED <u>October 21</u>	20 <u>13</u>
<i>Laura R Macvick</i>	
PROGRAM DEVELOPMENT ENGINEER	

FILE NAME =	USER NAME = ebb	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SHEET INDEX & GENERAL NOTES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
q:\09files\08224\wo 1 - us 24 over Frazier Creek - structure plans\an 081-7078 & s	DESIGNED -	REVISED -	63			(1)CR-1, (2)CR	ADAMS	43	2	
PLOT SCALE = 5/8" = 1' IN.	CHECKED -	REVISED -	CONTRACT NO. 72C12							
PLOT DATE = 10/21/2013	DATE -	REVISED -	SCALE: none			SHEET NO. 1	OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 6 (ILLINOIS) FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE							
				80% FED 20% STATE ROADWAY	80% FED 20% STATE BRIDGE	80% FED 20% STATE BRIDGE					
				0004	0040	0040					
				RURAL	S.N. 001-7129	S.N. 001-7130					
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	62	62							
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	138	138							
20200100	EARTH EXCAVATION	CU YD	2841	2841							
20800150	TRENCH BACKFILL	CU YD	6	6							
25000200	SEEDING, CLASS 2	ACRE	1.75	1.75							
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	157.5	157.5							
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	157.5	157.5							
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	157.5	157.5							
25000700	AGRICULTURAL GROUND LIMESTONE	TON	3.5	3.5							
25100115	MULCH, METHOD 2	ACRE	1.75	1.75							
28000200	EARTH EXCAVATION FOR EROSION CONTROL	CU YD	15	15							
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	350	350							
28000400	PERIMETER EROSION BARRIER	FOOT	125	125							
28000500	INLET AND PIPE PROTECTION	EACH	1	1							

14

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE						
				80% FED 20% STATE ROADWAY	80% FED 20% STATE BRIDGE	80% FED 20% STATE BRIDGE				
				0004	0040	0040				
				RURAL	S. N. 001-7129	S. N. 001-7130				
28001000	AGGREGATE (EROSION CONTROL)	TON	27	27						
28100707	STONE DUMPED RIPRAP, CLASS A4	SQ YD	1363	1363						
28100709	STONE DUMPED RIPRAP, CLASS A5	SQ YD	610	610						
28200200	FILTER FABRIC	SQ YD	1973	1973						
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	15	15						
44000100	PAVEMENT REMOVAL	SQ YD	159	159						
44201747	CLASS D PATCHES, TYPE IV, 8 INCH	SQ YD	100	100						
44201783	CLASS D PATCHES, TYPE IV, 11 INCH	SQ YD	431	431						
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1		1					
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1			1				
50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	128			128				
50800105	REINFORCEMENT BARS	POUND	9200		4010	5190				
51500100	NAME PLATES	EACH	2		1	1				
54003000	CONCRETE BOX CULVERTS	CU YD	102.9		48.7	54.2				

14

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE							
				80% FED 20% STATE ROADWAY 0004 RURAL	80% FED 20% STATE BRIDGE 0040 S.N. 001-7129	80% FED 20% STATE BRIDGE 0040 S.N. 001-7130					
54011006	PRECAST CONCRETE BOX CULVERTS 10' X 6'	FOOT	106		106						
54011206	PRECAST CONCRETE BOX CULVERTS 12' X 6'	FOOT	108			108					
54200220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	44	44							
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	7	7							
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6							
67100100	MOBILIZATION	L SUM	1	1							
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1							
70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	1							
70101835	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 22	L SUM	1	1							
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	10	10							
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	1	1							
* 78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	515	515							
∅ Z0076600	TRAINEES	HOOR	1000	1000							
Z0016702	DETOUR SIGNING	L SUM	1	1							
∅ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOOR	1000	1000							
Z0023602	GRANULAR CULVERT BACKFILL	CU YD	2108		916	1192					

14 * SPECIALTY ITEM ∅ 0042

TREE REMOVAL

STATION	SIDE	OFFSET	20100110	20100210
			6 TO 15 UNITS DIAMETER	OVER 15 UNITS DIAMETER
FAP 63 (US 24)				
2257+47.9	LT	25.9	14	
2257+61.2	LT	26.6	10	
2257+66.1	LT	24.8	6	
2258+01.4	LT	23.1		18
2258+20.3	LT	25.5		18
2258+20.3	LT	25.5		18
2259+89.3	RT	69.0		20
2259+93.1	RT	58.9		32
2260+00.6	RT	55.9		32
2262+72.2	LT	32.0	12	
2262+80.6	LT	35.9	6	
2262+84.5	LT	32.3	8	
2262+84.6	LT	39.3	6	
TOTALS			62	138

PIPE CULVERT SCHEDULE

STATION	SIDE	542D0220	20800150
		PIPE CULVERTS CL D TY 1 15" FOOT	TRENCH BACKFILL CU YD
FAP 63 (US 24)			
2259+10.0	LT	44	5.8
TOTALS		44	5.8
USE		44	6

PAVEMENT REMOVAL

STATION TO STATION	SIDE	WIDTH	44000100
FAP 63 (US 24)			
2259+60.0	LT & RT	22.0	158.9
TOTAL			158.9
USE			159

ESTIMATED QUANTITY FOR BURIED PAVEMENT REMOVAL (SEE TYPICAL SECTIONS) OTHER PAVEMENT REMOVAL INCLUDED IN CLASS D PATCHES.

RIPRAP SCHEDULE

STATION TO STATION	SIDE	WIDTH	28100707	28100709	28200200
			STONE DUMPED CLASS A4	STONE DUMPED CLASS A5	FILTER FABRIC SQ YD
FAP 63 (US 24)					
2254+79.8	2255+15.0	LT	11.0	47.0	47.0
2255+15.0	2255+60.0	LT	18.0	90.1	90.1
2255+37.6	2256+15.6	RT	11.0	110.1	110.1
2256+15.6	2259+70.0	RT	VARIES	370.0	370.0
2256+36.0	2259+70.0	RT	VARIES	525.0	525.0
2259+35.6	2260+20.0	LT	VARIES	220.0	220.0
2260+20.0	2262+20.0	LT	VARIES		610.0
TOTALS				1362.1	1972.1
USE				1363	1973

EARTH EXCAVATION SCHEDULE

LOCATION STATION TO STATION	SIDE	20200100				
		EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED (25%)	EMBANKMENT	EARTHWORK BALANCE (BORROW) WASTE	
FAP 63 (US 24)						
2254+70	2263+25	LT	1510	1132	202	930
2255+20	2261+20	RT	1331	998	819	179
TOTALS			2841	2130	1021	1109

SEEDING SCHEDULE

STATION TO STATION	SIDE	WIDTH	SEEDING CLASS 2 ACRE	25000200			25000400			25000500			25000600			25100115		25000700	
				FERTILIZER NUTRIENTS						MULCH METHOD 2	AGRICULTURAL LIMESTONE								
				NITROGEN	PHOSPHORUS	POTASSIUM	ACRE	POUND	ACRE	TON									
FAP 63 (US 24)																			
2254+70	2259+05	LT	VARIES	0.44	39.3	39.3	39.3	0.44	0.9										
2259+17	2263+25	LT	VARIES	0.35	31.5	31.5	31.5	0.35	0.7										
2255+20	2261+20	RT	VARIES	0.98	88.0	88.0	88.0	0.98	2.0										
TOTALS				1.76	158.8	158.8	158.8	1.76	3.5										
USE				1.75	157.5	157.5	157.5	1.75	3.5										

EROSION CONTROL SCHEDULE

ITEM	UNIT	TOTAL
TEMPORARY EROSION CONTROL SEEDING	POUND	350
PERIMETER EROSION BARRIER	FOOT	125
INLET AND PIPE PROTECTION	EACH	1
AGGREGATE (EROSION CONTROL)	TON	27
EARTH EXCAVATION FOR EROSION CONTROL	CU YD	15

THE SCHEDULE FOR EROSION CONTROL ARE ESTIMATED QUANTITIES. IT MAY BE REDUCED, INCREASED, OR DELETED BY THE ENGINEER BASED ON ACTUAL FIELD CONDITIONS. NO WORK INVOLVING THESE ESTIMATED QUANTITIES SHALL BE PERFORMED WITHOUT THE DIRECTION AND APPROVAL OF THE ENGINEER.

FURNISHING AND ERECTING ROW MARKERS

STATION	SIDE	OFFSET	66600105
FAP 63 (US 24)			
2255+31.80	RT	105.00	1
2259+70.00	LT	60.00	1
2259+70.00	LT	90.00	1
2260+00.00	RT	105.00	1
2260+75.00	RT	60.00	1
2262+20.00	LT	90.00	1
2262+20.00	LT	60.00	1
TOTAL			7

CLASS D PATCHES, TYPE IV, 11 INCH

STATION TO STATION	SIDE	WIDTH	44201783	
FAP 63 (US 24)				
2255+50.0	2256+20.0	LT & RT	25.0	194.4
2259+50.0	2260+35.0	LT & RT	25.0	236.1
TOTAL				430.6
USE				431

NOTE: THIS PAY ITEM INCLUDES PAVEMENT REMOVAL.

MISCELLANEOUS PAVING ITEMS SCHEDULE

ITEM	UNIT	TOTAL
AGGREGATE FOR TEMPORARY ACCESS	TON	15

THE SCHEDULE FOR MISCELLANEOUS PAVING ITEMS ARE ESTIMATED QUANTITIES. IT MAY BE REDUCED, INCREASED, OR DELETED BY THE ENGINEER BASED ON ACTUAL FIELD CONDITIONS. NO WORK INVOLVING THESE ESTIMATED QUANTITIES SHALL BE PERFORMED WITHOUT THE DIRECTION AND APPROVAL OF THE ENGINEER.

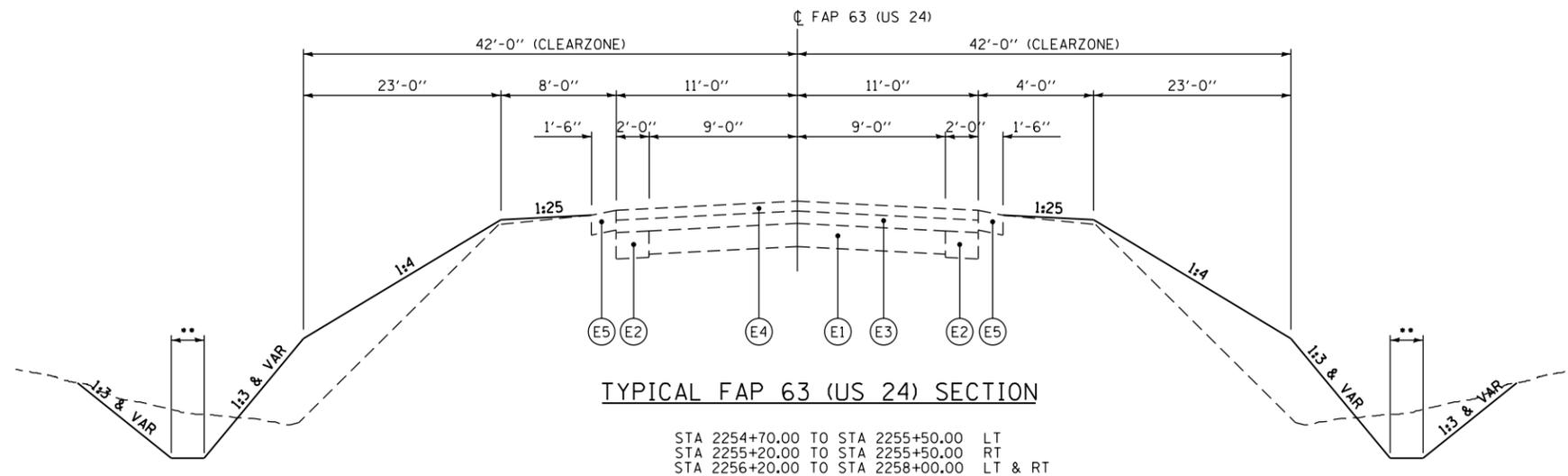
ENTRANCE SCHEDULE

STATION	SIDE	TYPE	WIDTH	AREA (SQ FT)	44201747
					CL D PATCHES TYPE IV 8 INCH SQ YD
FAP 63 (US 24)					
2259+21.0	LT	PE / MB	13.0	895.5	99.5
TOTALS					99.5
USE					100

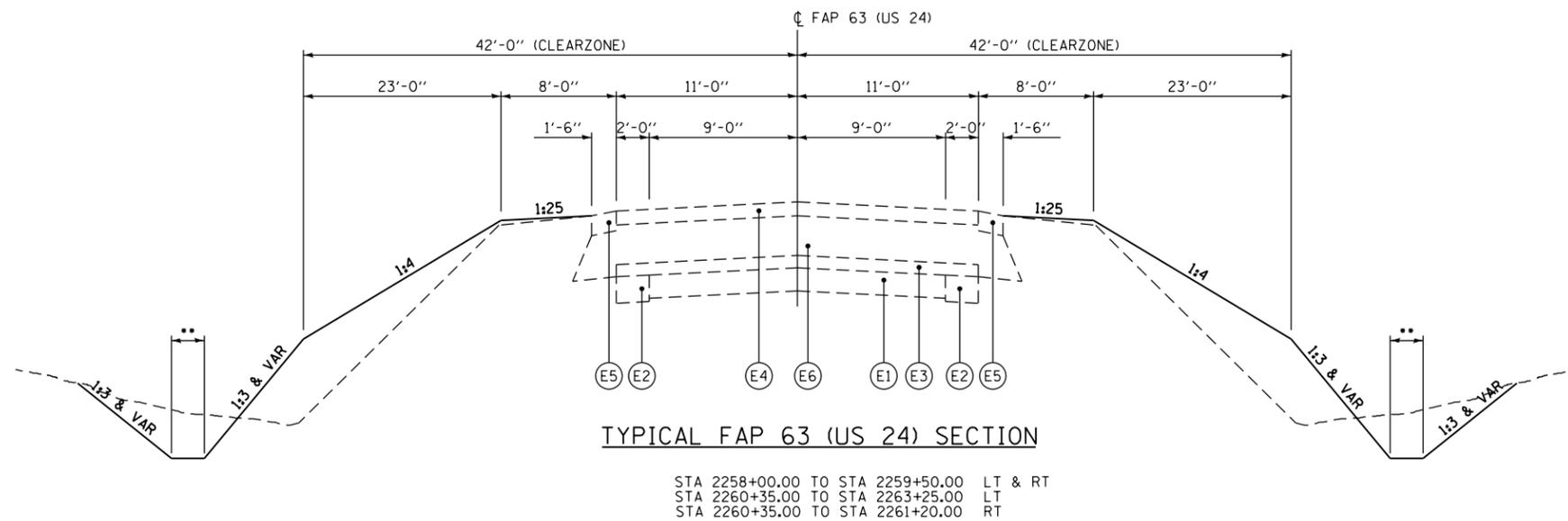
NOTE: THIS PAY ITEM INCLUDES DRIVEWAY PAVEMENT REMOVAL.

PAINT PAVEMENT MARKING - LINE 5"

STATION TO STATION	SIDE	DESCRIPTION	78001120		
			WHITE	YELLOW	
FAP 63 (US 24)					
2255+50.0	2256+20.0	LT	EDGE LINE	70.0	
2255+50.0	2256+20.0	RT	EDGE LINE	70.0	
2255+50.0	2256+20.0	LT CL	SKIP-DASH		20.0
2255+50.0	2256+20.0	RT CL	NO-PASSING		70.0
2259+50.0	2260+35.0	LT	EDGE LINE	85.0	
2259+50.0	2260+35.0	RT	EDGE LINE	85.0	
2259+50.0	2260+35.0	LT CL	SKIP-DASH		30.0
2259+50.0	2260+35.0	RT CL	NO-PASSING		85.0
TOTALS				310.0	205.0
USE				515	



NOTES:
 •• DITCH WIDTH VARIES (SEE CROSS SECTIONS)



NOTES:
 •• DITCH WIDTH VARIES (SEE CROSS SECTIONS)

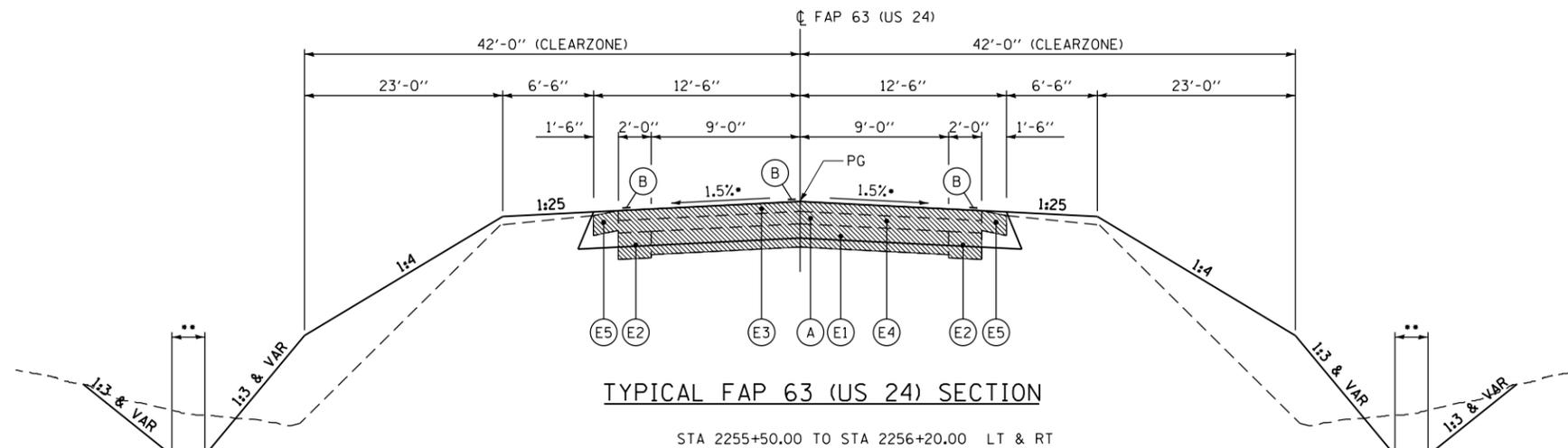
EXISTING LEGEND

- (E1) EXISTING PCC PAVEMENT, 7"
- (E2) EXISTING PCC BASE COURSE WIDENING, 8"
- (E3) EXISTING HOT-MIX ASPHALT SURFACING, 3 3/4" MIN.
- (E4) EXISTING HOT-MIX ASPHALT SURFACING, 3" MIN.
- (E5) EXISTING HOT-MIX ASPHALT SHOULDERS, 6"
- (E6) EXISTING GRANULAR EMBANKMENT
- ▨ EXISTING ITEM TO BE REMOVED

PROPOSED LEGEND

- (A) PR CLASS D PATCHES, TYPE IV, 11 INCH (INCLUDES PAVEMENT REMOVAL)
- (B) PR PAVEMENT MARKING, LINE - 5"

FILE NAME =	USER NAME = seb	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
Q:\08files\080224\WO 1 - US 24 over Frazier Creek - Structure Plans\SN 001-7098 & SN 001-7099\CADD Sheets\0672C12-shr-typical					REVISIONS	63	(1)CR-1, (2)CR	ADAMS	43	7			
PLOT SCALE = 100.0002' / in.					CHECKED -	SCALE: none			SHEET NO. 1 OF 2 SHEETS		STA.	TO STA.	CONTRACT NO. 72C12
PLOT DATE = 10/29/2013					DATE -	FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT							



NOTES:

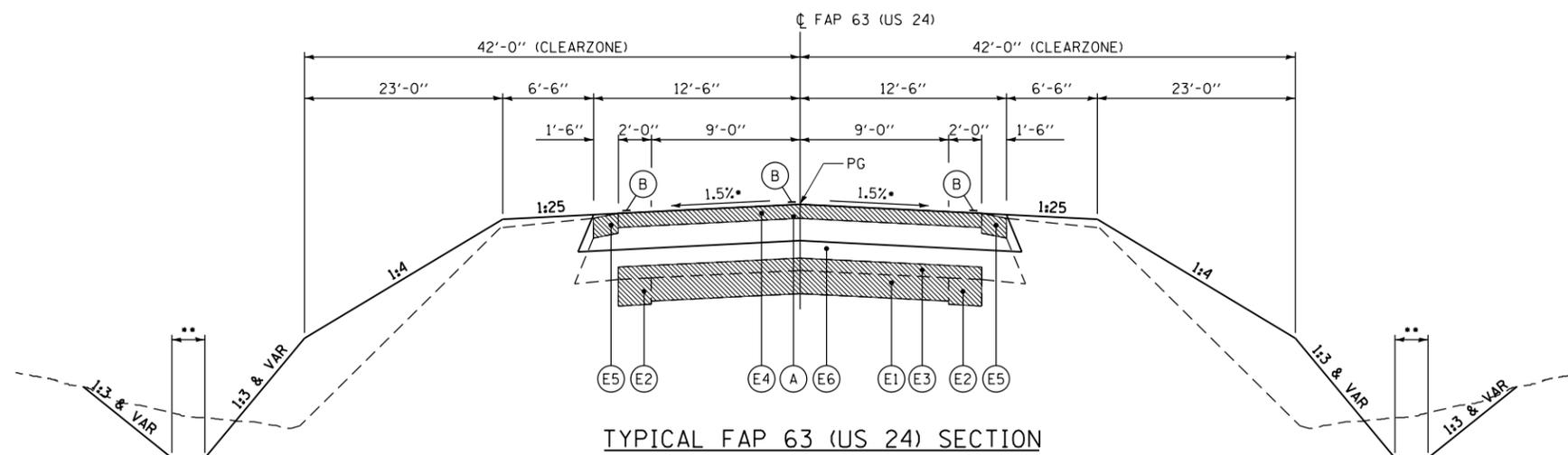
- AND VARIES TO MATCH EXISTING CROSS SLOPE
- DITCH WIDTH VARIES (SEE CROSS SECTIONS)

EXISTING LEGEND

- ⓔ1 EXISTING PCC PAVEMENT, 7"
- ⓔ2 EXISTING PCC BASE COURSE WIDENING, 8"
- ⓔ3 EXISTING HOT-MIX ASPHALT SURFACING, 3¾" MIN.
- ⓔ4 EXISTING HOT-MIX ASPHALT SURFACING, 3" MIN.
- ⓔ5 EXISTING HOT-MIX ASPHALT SHOULDERS, 6"
- ⓔ6 EXISTING GRANULAR EMBANKMENT
- ▨ EXISTING ITEM TO BE REMOVED

PROPOSED LEGEND

- Ⓐ PR CLASS D PATCHES, TYPE IV, 11 INCH (INCLUDES PAVEMENT REMOVAL)
- Ⓑ PR PAVEMENT MARKING, LINE - 5"



NOTES:

- AND VARIES TO MATCH EXISTING CROSS SLOPE
- DITCH WIDTH VARIES (SEE CROSS SECTIONS)

FILE NAME =	USER NAME = seb	DESIGNED -	REVISED -
Q:\08files\080224\WO 1 - US 24 over Frazier Creek - Structure Plans\SN 001-7098 & S		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

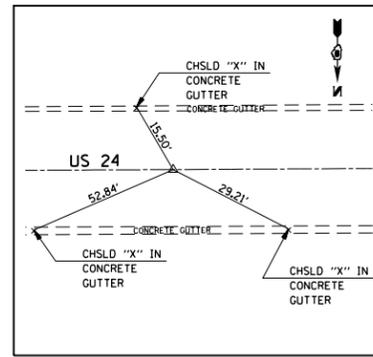
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

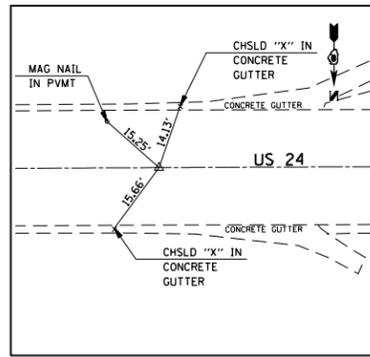
SCALE: none SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
63	(1)CR-1, (2)CR	ADAMS	43	8
CONTRACT NO. 72C12				
FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT				

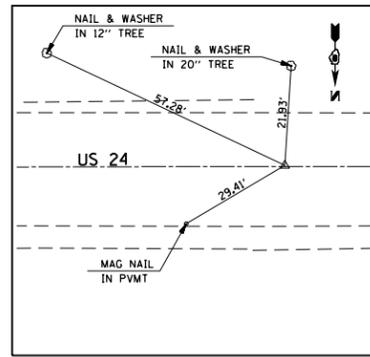
BM *CB-2: STA. 2255+48.0, 34.0' LT
 CHISLED "X" ON SOUTH HEADWALL
 JUST W OF N 48TH ST & US 24 INT
 ELEV. = 669.12



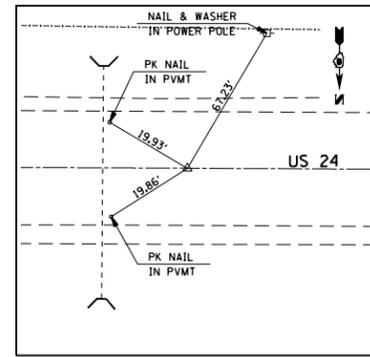
P.O.T. STA. 2250+00.00
 (SET P.K. NAIL IN CHSLD "X")



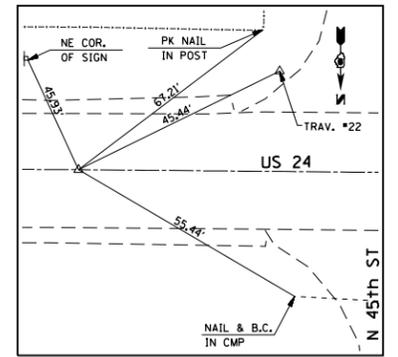
P.C. STA. 2253+00.00
 (SET P.K. NAIL IN CHSLD "X")



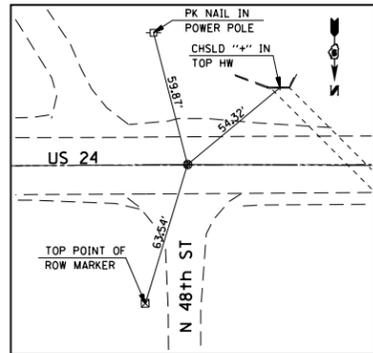
P.I. STA. 2258+00.00
 (SET P.K. NAIL IN CHSLD "X")



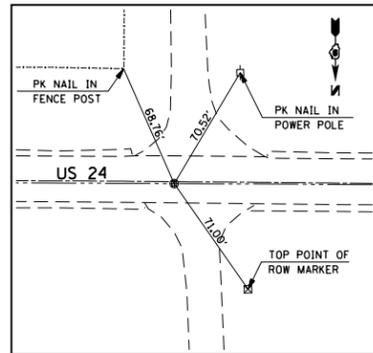
P.T. STA. 2262+99.99
 (SET P.K. NAIL IN CHSLD "X")



P.I. STA. 2268+00.00
 (SET P.K. NAIL IN CHSLD "X")

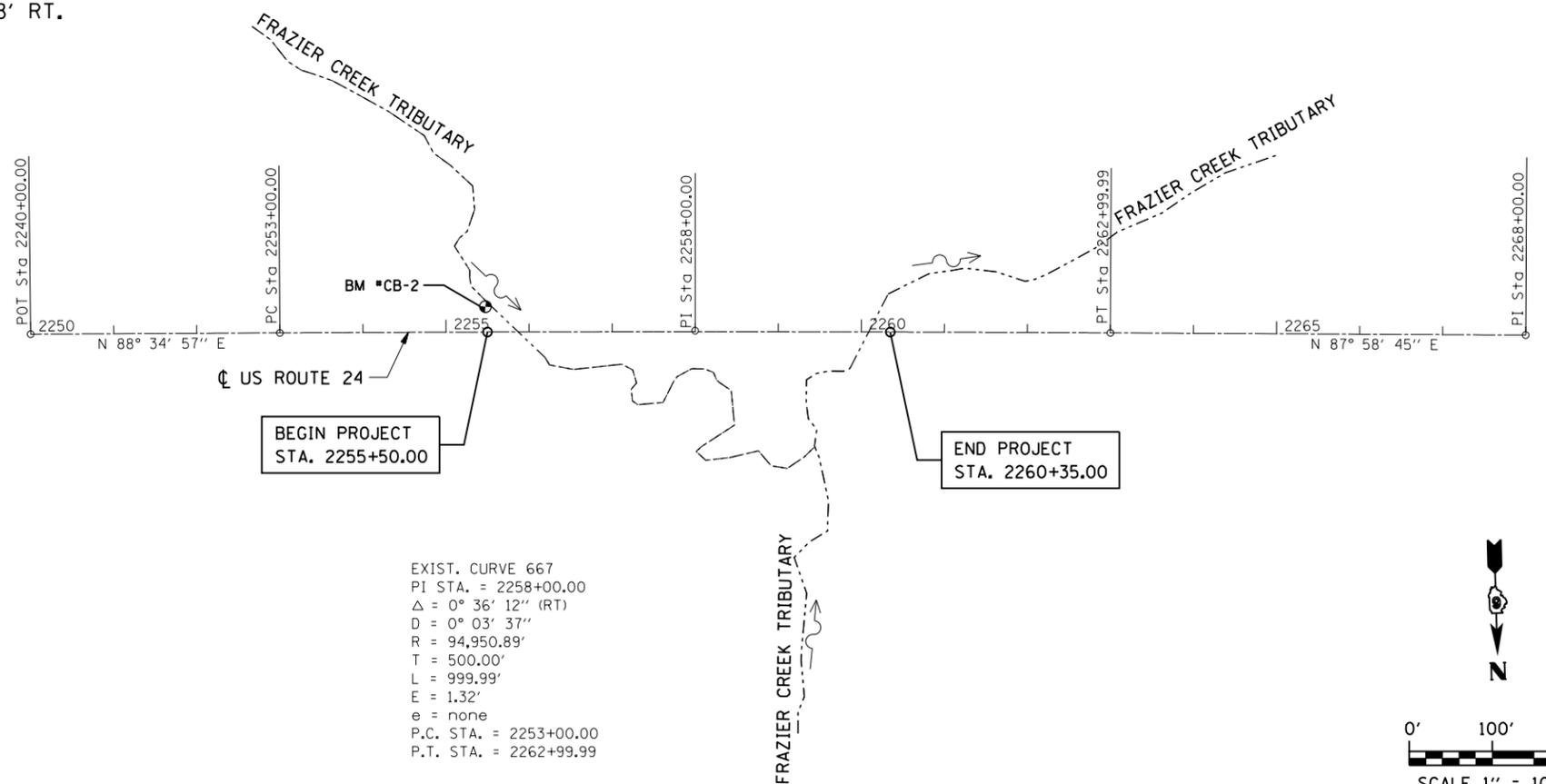


NE COR, SEC 8, T1S, R8W, 4TH PM
 STA. 2255+11.79, 0.52' LT.
 (MAG NAIL SET FLUSH)

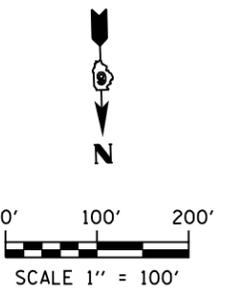


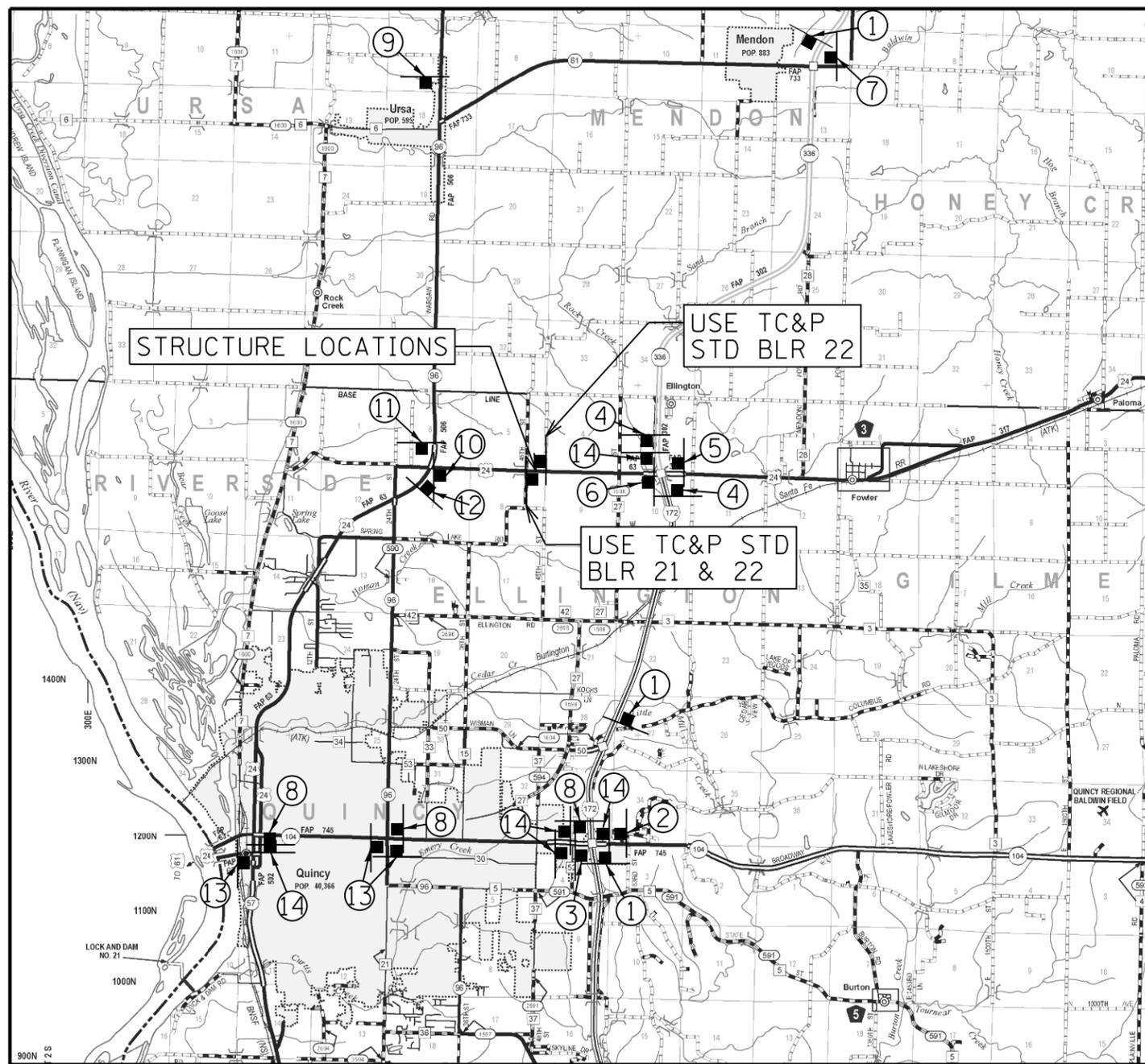
NW COR, NE 1/4, NE 1/4, SEC 8, T1S, R8W, 4TH PM
 STA. 2268+57.02, 2.18' RT.
 (MAG NAIL SET FLUSH)

ALIGNMENT COORDINATES - US 24			
	STATION	N	E
POT	2250+00.00	1,218,851.4223	1,968,867.8487
PC	2253+00.00	1,218,858.8432	1,968,567.9406
PI	2258+00.00	1,218,871.2112	1,968,068.0936
PT	2262+99.99	1,218,888.8427	1,967,568.4046
PI	2268+00.00	1,218,906.4745	1,967,068.7065



EXIST. CURVE 667
 PI STA. = 2258+00.00
 $\Delta = 0^\circ 36' 12''$ (RT)
 $D = 0^\circ 03' 37''$
 $R = 94,950.89'$
 $T = 500.00'$
 $L = 999.99'$
 $E = 1.32'$
 $e = \text{none}$
 P.C. STA. = 2253+00.00
 P.T. STA. = 2262+99.99





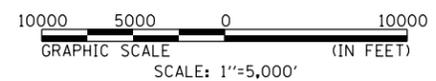
- ① US 24 CLOSED 2 MILES WEST OF I-172/IL 336 R11-3 (6045)
- ② US 24 CLOSED 2 MILES WEST OF I-172/IL 336 R11-3 (6060)
- ③ US 24 CLOSED 2 MILES WEST OF I-172/IL 336 R11-3 (6060)
- ④ US 24 CLOSED 2 MILES WEST R11-3 (6030)
- ⑤ US 24 CLOSED 2 MILES AHEAD R11-3 (6030)
- ⑥ US 24 CLOSED 1.7 MILES AHEAD R11-3 (6030)
- ⑦ US 24 CLOSED 2 MILES WEST OF I-172/IL 336 R11-3 (6060)
- ⑧ DETOUR US 24 M4-8(O) (2412) W17-1100 (2409) M6-1 (2115)
- ⑨ US 24 CLOSED 1.5 MILES EAST OF IL 96 R11-3 (6045)
- ⑩ US 24 CLOSED 1.5 MILES AHEAD R11-3 (6030)
- ⑪ US 24 CLOSED 1.5 MILES R11-3 (6045)
- ⑫ US 24 CLOSED 1.5 MILES R11-3 (6045)
- ⑬ US 24 CLOSED 1.5 MILES EAST OF IL 96/US 24 JUNCTION R11-3 (6060)
- ⑭ DETOUR US 24 M4-8(O) (2412) W17-1100 (2409) M6-3 (2115)

GENERAL NOTES

- 1) FLAGS SHALL BE USED AT EACH DETOUR SIGN LOCATION.
- 2) STANDARD BLR 21/BLR 22 ADDRESS ROAD CLOSURE DETAILS WITHIN THE IMMEDIATE VICINITY OF THE FRAZIER CREEK STRUCTURES.
- 3) SIDE ROAD CLOSURES, IF NECESSARY, SHALL BE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARD BLR-21.
- 4) ALL SIGNS SHALL BE FURNISHED, ERECTED, AND MAINTAINED BY THE CONTRACTOR.
- 5) THE LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
- 6) ALL SIGNS SHALL BE REMOVED WHEN NOT REQUIRED FOR FUTURE USE.
- 7) THIS TRAFFIC CONTROL AND PROTECTION SHALL BE PAID FOR ACCORDING TO THE CONTRACT UNIT COST PER LUMP SUM FOR TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21 (SPECIAL).
- 8) THE EXACT LOCATIONS OF ALL TRAFFIC CONTROL ITEMS SHALL BE APPROVED BY THE ENGINEER.
- 9) PRIOR TO THE CLOSURE OF US 24, THE CONTRACTOR SHALL NOTIFY LOCAL EMERGENCY SERVICES, ADAMS COUNTY ENGINEER, AND THE TOWNSHIP ROAD COMMISSIONER.

ADAMS COUNTY ENGINEER:
 MR. JAMES FRANKENHOFF, P.E.
 101 NORTH 54TH STREET
 QUINCY, IL 62305
 FAX: 217-223-9418
 PHONE: 217-223-0614
 MOBILE:
 E-MAIL: ACHD ADAMS.NET

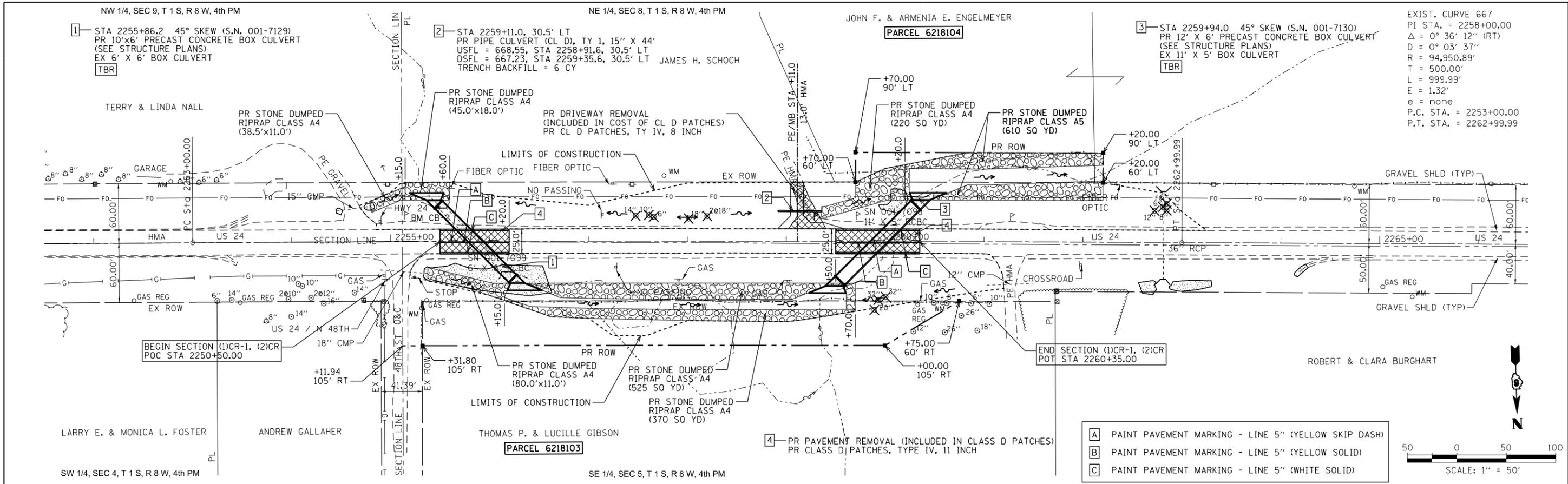
ELLINGTON TOWNSHIP ROAD COMMISSIONER:
 MR. RICHARD OBERT
 6130 HORSESHOE VALLEY ROAD
 QUINCY, IL 62305
 PHONE: 217-222-1953



FILE NAME =	USER NAME = seb	DESIGNED -	REVISED -	STATE OF ILLINOIS	DETOUR PLAN	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Q:\08files\080224\WO 1 - US 24 over Frazier Creek - Structure Plans\SN 001-7098 & SN 001-7099\CADD Sheets\0672C12-sht-Detour.dwg				DEPARTMENT OF TRANSPORTATION	SCALE: 1"=5000'	63	(1)CR-1, (2)CR	ADAMS	43	10
PLOT SCALE = 10000.0000' / in.				SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	CONTRACT NO. 72C12				
PLOT DATE = 10/29/2013				DATE	FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT					

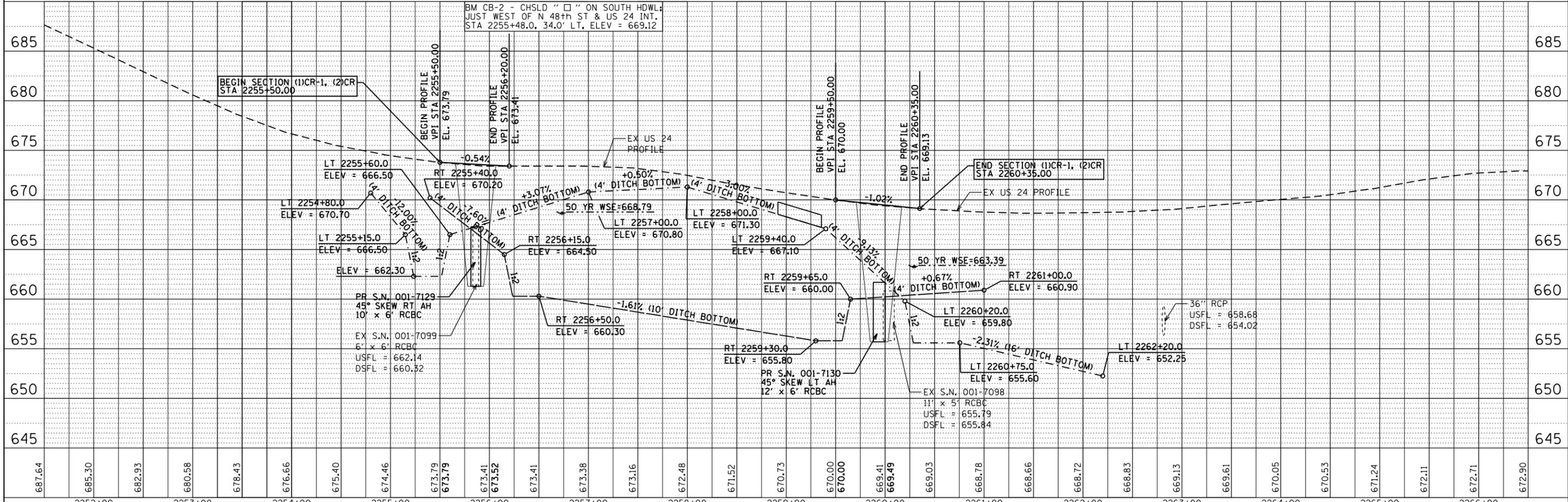
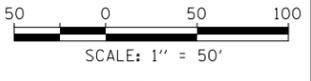
DATE	
BY	
PLAN	
SURVEYED	
PLOTTED	
NOTE BOOK	
CHECKED	
FILE NAME	

DATE	
BY	
PROFILE	
SURVEYED	
PLOTTED	
NOTE BOOK	
CHECKED	
FILE NAME	



EXIST. CURVE 667
 PI STA. = 2258+00.00
 $\Delta = 0^\circ 36' 12''$ (RT)
 $D = 0^\circ 03' 37''$
 $R = 94,950.89'$
 $T = 500.00'$
 $L = 999.99'$
 $E = 1.32'$
 $e = \text{none}$
 P.C. STA. = 2253+00.00
 P.T. STA. = 2262+99.99

- [A] PAINT PAVEMENT MARKING - LINE 5" (YELLOW SKIP DASH)
- [B] PAINT PAVEMENT MARKING - LINE 5" (YELLOW SOLID)
- [C] PAINT PAVEMENT MARKING - LINE 5" (WHITE SOLID)



FILE NAME =	USER NAME = seb	DESIGNED -	REVISD -	EBB 10/28/13
D:\08files\080224\W01 - US 24 over Frazer Creek - Structure Plans\N 001-7098 & SN 001-7099\CADD-Sheets\0672C12-sht-plan.dgn		CHECKED -	REVISD -	
PLOT SCALE = 100.0000' / in.		DATE -	REVISD -	
PLOT DATE = 10/29/2013				

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE SHEET

SCALE: 1"=50' SHEET NO. 1 OF 1 SHEETS STA. 2251+50 TO STA. 2266+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
63	(1)CR-1, (2)CR	ADAMS	43	11
CONTRACT NO. 72C12				
FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT				

STORM WATER POLLUTION PREVENTION PLAN

Route: FAP 63 Marked: US 24
 Section: (1)CR-1, (2)CR Project No.:
 County: ADAMS Contract No. 72C12

This plan has been prepared to comply with the provision of the NPDES Permit Number ILR10 issued by the Illinois Environmental Protection Agency for storm water discharges from construction site activities.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted, is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Regina L. Aniskell
 (Signature)

10/25/13
 (Date)

Regina L. Aniskell
 (Title)

Note: The above boxed in area will be filled out by IDOT - Construction after the award of the contract to obtain the required NPDES permit.

The following plan was established and included in these plans to direct the Contractor in the placement of temporary erosion control systems and to provide a storm water pollution prevention plan for compliance under NPDES. The Contractor shall abide to all requirements within this plan as part of the contract.

The purpose of this plan is to prevent / minimize siltation within the construction zone and to eliminate sediments from entering and leaving the construction zone by utilizing proper temporary erosion control systems and providing ground cover within a reasonable time.

Certain items, as shown in this plan and referenced by the legend, shall be placed by the Contractor at the beginning of construction. Other items shall be placed by the Contractor as directed by the Engineer on a case by case situation resulting from the Contractor's sequence of activities, time of the year, and expected weather conditions.

The Contractor shall place permanent erosion control systems and seeding within a reasonable amount of time; therefore, reducing the amount of area being open to the possibility of erosion and reducing the amount of temporary erosion control systems and temporary seeding. The Resident Engineer will determine if temporary erosion control systems shown in the plan can be deleted, the size of the proposed ditch checks, the proper method of installation, and if any additional temporary erosion control systems shall be added which are not included in this plan. The Contractor shall perform all work as directed by the Engineer and as shown in special details and in Standard 280001 of the plans.

All disturbed areas having high potential for erosion, as determined by the Engineer, shall be temporarily seeded or permanently seeded by October 1, and shall not be reopened until after the winter shutdown period.

SITE DESCRIPTION

Description of Construction Activity:

- The proposed project consists of removing a 6'x6' RCBC (SN 001-7099) and replacing with a 10'x6' RCBC (SN 001-7129) and removing a 11'x5' RCBC (SN 001-7098) and replacing with a 12'x6' RCBC (SN 001-2509) along FAP 63 (US 24) approximately 1.7 miles West of I-172 in Adams County, Illinois.
- Miscellaneous work includes pavement removal, shoulder removal, base course, grading, riprap, pavement marking, traffic control, seeding, etc.

Description of Intended Sequence of Major Construction Activities Which Will Disturb Earth and Lead to Possible Erosion for Major Portions of the Construction Site:

- Excavation will be completed to grade out for proposed roadway ditches and waterways, and to lower the existing ground elevation to meet the proposed roadway grade/vertical alignment.
- Embankment will be completed in fill areas to raise the existing ground elevation to meet the proposed roadway grade/vertical alignment.
- Drainage structures will be installed before and/or during the construction of the excavation and embankment to allow proper drainage across the proposed four lane facility.
- Placement, maintenance, removal and proper clean-up of temporary erosion control, such as erosion control fence, hay or straw bale ditch checks, riprap ditch checks, sediment basins, temporary seeding, etc.
- Placement of permanent erosion control, such as riprap ditch lining, riprap stilling basins, riprap dry dams, excelsior blanket, seeding, etc.
- Final grading, paving and other miscellaneous items.
- Stage construction of the above items will be required to maintain traffic as discussed previously herein.

Area of Construction Site:

The total drainage area entering and including the construction site is estimated to be 425 acres (0.66 square miles) in which 2.0 acres will be disturbed by excavation, grading or other activities.

Other Reports, Studies and Plans which Aid in the Development of this Storm Water Pollution Prevention Plan as Referenced Documents:

- Estimated run-off coefficients are contained in the project drainage study which were utilized for proposed placement of the temporary erosion control systems.
- Information on the soils within the site was obtained from field reviews which were utilized for proposed placement of the temporary erosion control systems.
- Site maps indicating drainage patterns and approximate slopes were contained in the project design report, USGS drainage maps, project drainage study, and project plan documents were all utilized for proposed placement of the temporary erosion control systems.

Drainage Tributaries Receiving Water from this Construction Site:

- Frazier Creek

FILE NAME: q:\2011\082224\wo 1 - us 24 over frazier creek - structure plans\en 881-7099 & s	USER NAME: ebb	DESIGNED: -	REVISED: -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STORM WATER POLLUTION PREVENTION NOTES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		CHECKED: -	REVISED: -			63	(1)CR-1, (2)CR	ADAMS	43	12	
PLOT SCALE: 5/8"=34' 7" IN.		DATE: -	REVISED: -			CONTRACT NO. 72C12					
PLOT DATE: 10/21/2013						SCALE: none SHEET NO. 1 OF 4 SHEETS STA. TO STA. FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT					

CONTROLS - EROSION CONTROLS AND SEDIMENT CONTROLS

Description of Stabilization Practices at the Beginning of Construction:

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

Description of Stabilization Practices During Construction:

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

- (f) Construction equipment shall be stored and fueled only at designated locations. All necessary measures shall be taken to contain any fuel or pollution run-off in compliance with EPA water quality regulations. Leaking equipment or supplies shall be immediately repaired or removed from the site.
- (g) Qualified personnel shall inspect the project at least every 7 calendar days and within 24 hours of the end of a storm that is 0.5 inches or greater as noted in BDE 2342.
- (h) Sediment collected during construction by the various temporary erosion control systems shall be disposed of on the site on a regular basis as directed by the Engineer.
- (i) The temporary erosion control systems shall be removed as directed by the Engineer after use is no longer needed or no longer functioning. The costs of this removal shall be included in the unit bid price for the various temporary erosion control pay items. No additional compensation will be allowed.

Description of Structural Practices After Final Grading:

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

Maintenance after Construction:

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

DOCUMENTATION

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

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

FILE NAME =	USER NAME = seb	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STORM WATER POLLUTION PREVENTION NOTES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Q:\08files\080224\WO 1 - US 24 over Frazier Creek - Structure Plans\SN 001-7098 & S	DRAWN BY: CABD	CHECKED -	REVISED -			63	(1)CR-1, (2)CR	ADAMS	43	13
PLOT SCALE = 100.0002' / in.	CHECKED -	REVISED -	CONTRACT NO. 72C12							
PLOT DATE = 10/29/2013	DATE -	REVISED -	SCALE: none			SHEET NO. 2	OF 4 SHEETS	STA.	TO STA.	
						FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT				

CONTRACTOR CERTIFICATION STATEMENT

This certification statement is part of the Storm Water Pollution Plan for the project described below in accordance with NPDES Permit No. ILR10 _____, issued by the Illinois Environmental Protection Agency on _____.

Route: FAP 63 Marked: US 24

Section: (1)CR-1, (2)CR Project No.: NA

County: Adams Contract # 72C12

I certify under penalty of law that I understand the terms of the general National Pollutant Discharge Elimination System (NPDES) permit that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification.

Signature _____ Date _____

Title _____

Name of Firm _____

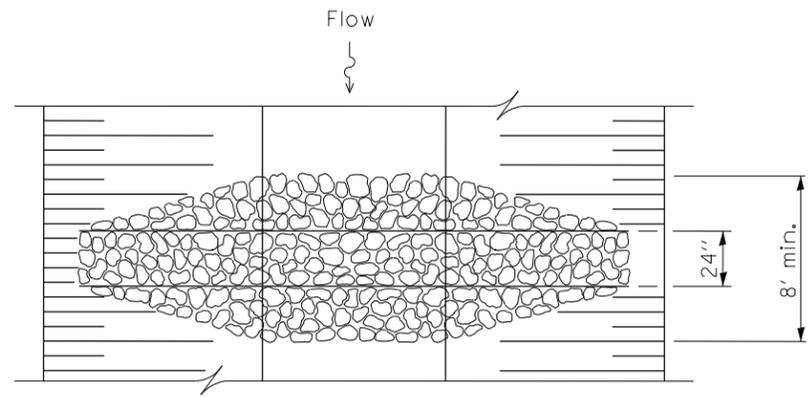
Street Address _____

City, State, Zip _____

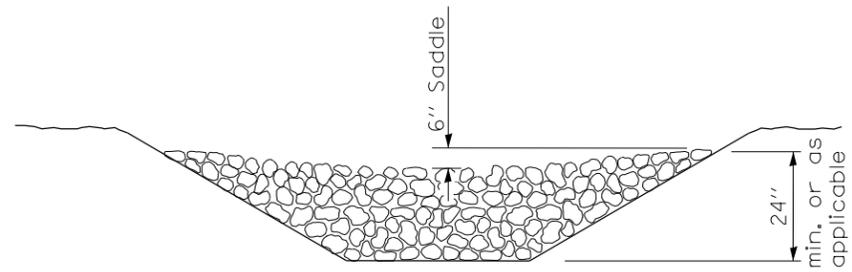
Phone Number _____

Note: The above boxed in area shall be filled out by the Contractor after the award of the contract to obtain the required NPDES Permit from IEPA. This is a requirement for this contract.

FILE NAME =	USER NAME = seb	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STORM WATER POLLUTION PREVENTION NOTES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Q:\08files\080224\WO 1 - US 24 over Frazier Creek - Structure Plans\SN 001-7098 & S	DRAWN	CHECKED -	REVISED -			63	(1)CR-1, (2)CR	ADAMS	43	14
PLOT SCALE = 100.0002' / in.	DATE	DATE	DATE			CONTRACT NO. 72C12				
PLOT DATE = 10/29/2013	DATE	DATE	DATE			SCALE: none SHEET NO. 3 OF 4 SHEETS STA. TO STA. FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT				



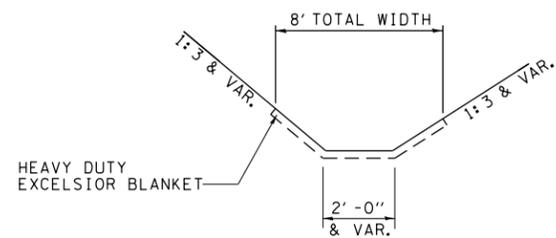
PLAN VIEW



ELEVATION

TEMPORARY AGGREGATE DITCH CHECKS
(TYPICAL)

SEE STANDARD 280001
FOR EROSION CONTROL
DETAILS NOT SHOWN.



HEAVY DUTY EXCELSIOR BLANKET LIMITS
(TYPICAL)

LEGEND

(FOR THE STORM WATER POLLUTION PREVENTION PLAN SHEETS)

ITEM	SYMBOL
TEMPORARY DITCH CHECKS, AGGREGATE (STD 280001) [AGGREGATE (EROSION CONTROL), 3.0 TONS PER EACH]	
INLET AND PIPE PROTECTION (STD 280001) [HAY BALES NOT ALLOWED]	
PERIMETER EROSION BARRIER	
EARTH EXCAVATION FOR EROSION CONTROL (SEDIMENT BASINS)	
PRESERVE EXISTING TREES, WOODLANDS, AND UNDERSTORY (OUTSIDE CONSTRUCTION LIMITS)	
ITEM PLACED AT BEGINNING OF CONSTRUCTION (Requirement)	* ITEM *
ITEM PLACED AS DIRECTED BY ENGINEER (When required by situation)	ITEM
DIRECTION OF OVERLAND FLOW	
HEAVY DUTY EROSION CONTROL BLANKET	
ITEM PLACED DURING STAGE 1 CONSTRUCTION	①

GENERAL NOTES:

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

Mulch shall be method 2, unless otherwise noted.

Aggregate ditch checks shall be paid for as "AGGREGATE DITCH CHECKS".

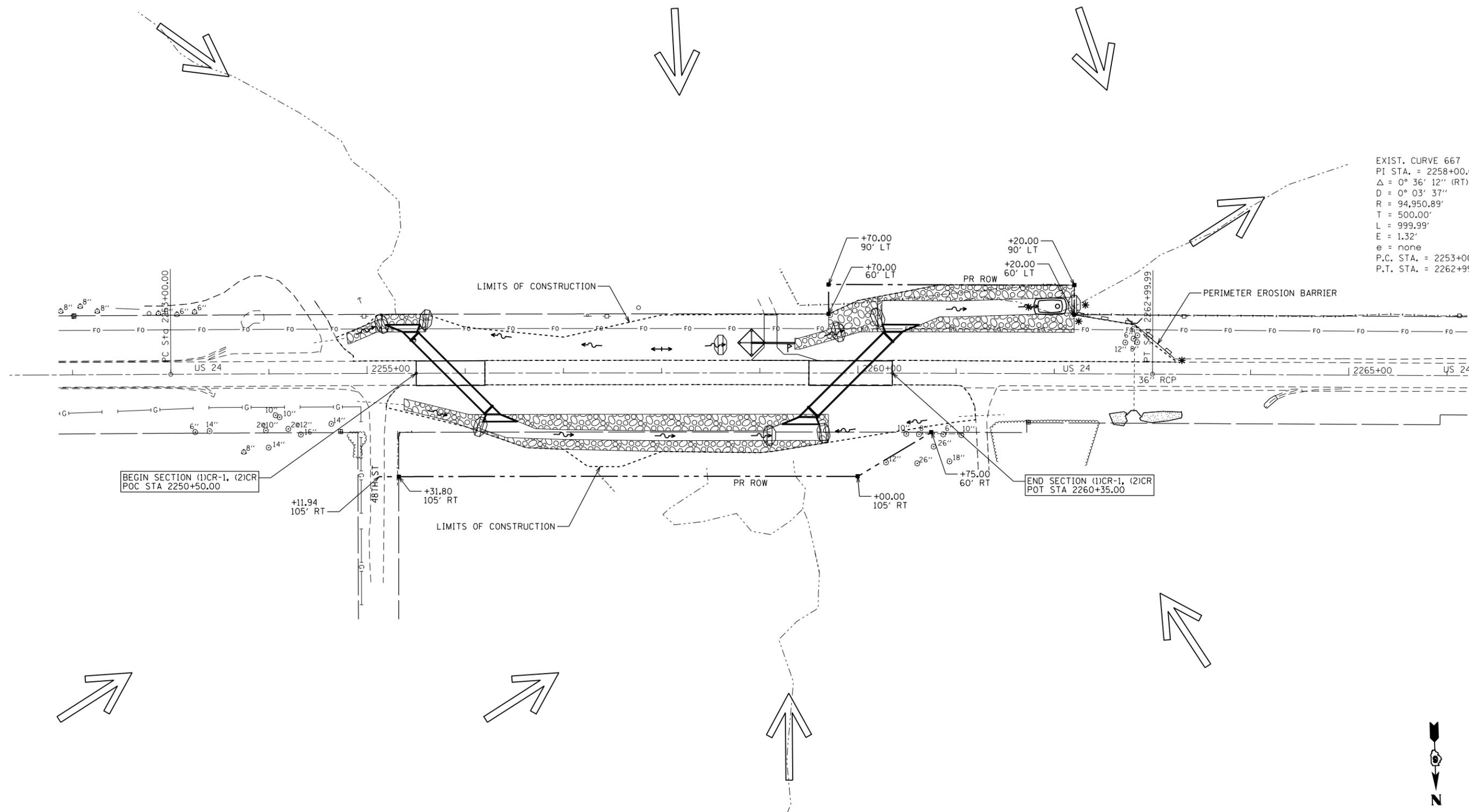
FILE NAME =	USER NAME = seb	DESIGNED -	REVISED -
Q:\08files\080224\WO 1 - US 24 over Frazier Creek - Structure Plans\SN 001-7098 & S...		DRAWN -	REVISED -
	PLOT SCALE = 100.0002' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/29/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STORM WATER POLLUTION PREVENTION LEGEND

SCALE: none SHEET NO. 4 OF 4 SHEETS STA. TO STA.

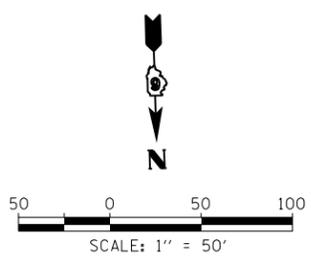
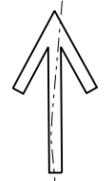
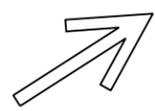
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
63	(1)CR-1, (2)CR	ADAMS	43	15
CONTRACT NO. 72C12				
FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT				



EXIST. CURVE 667
 PI STA. = 2258+00.00
 $\Delta = 0^\circ 36' 12''$ (RT)
 $D = 0^\circ 03' 37''$
 $R = 94,950.89'$
 $T = 500.00'$
 $L = 999.99'$
 $E = 1.32'$
 $e = \text{none}$
 P.C. STA. = 2253+00.00
 P.T. STA. = 2262+99.99

BEGIN SECTION (1)CR-1, (2)CR
 POC STA 2250+50.00

END SECTION (1)CR-1, (2)CR
 POT STA 2260+35.00



FILE NAME =	USER NAME = seb	DESIGNED -	REVISED - EBB 10/28/13
Q:\08files\080224\WO 1 - US 24 over Frazier Creek - Structure Plans\SN 001-7098 & S		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

STORM WATER POLLUTION PREVENTION PLAN

SCALE: 1"=50' SHEET NO. 1 OF 1 SHEETS STA. 2252+00 TO STA. 2267+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
63	(1)CR-1, (2)CR	ADAMS	43	16
CONTRACT NO. 72C12				
FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT				

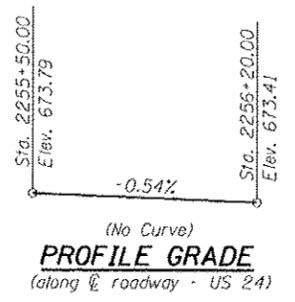
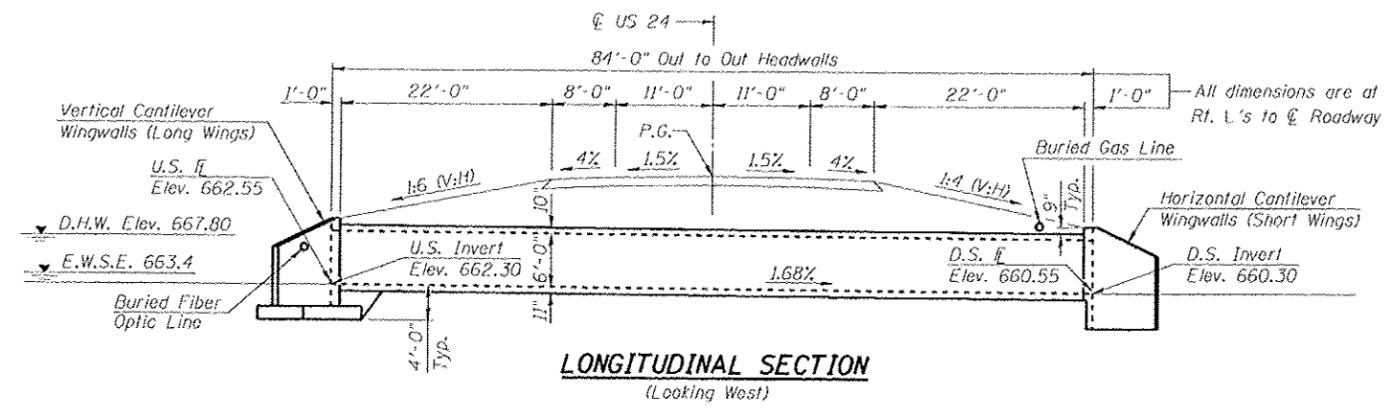
Benchmark: Chiseled "□" on south headwall; just west of N. 48th Street and U.S. 24 intersection, Sta. 2255+48.0, 34.0' L.L., Elev. 669.12.
 Existing Structure: S.N. 001-7099 is a 6' by 6' reinforced concrete box culvert at a 45° skew originally built in 1955 as S.B.I. 31, Section (1,2,3)W.
 The existing structure shall be removed and replaced. The roadway will be closed and traffic detoured during construction. Precast alternate is not allowed.
 No Salvage.

INDEX OF SHEETS

1. General Plan
2. General Data
- 3.-4. Culvert Details
5. Boring Logs

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Removal of Existing Structures No. 1	Each	1
Structure Excavation	Cu. Yd.	1,045
Name Plates	Each	1
Reinforcement Bars	Pound	22,840
Reinforcement Bars, Epoxy Coated	Pound	390
Concrete Box Culverts	Cu. Yd.	141.7
Granular Culvert Backfill	Cu. Yd.	902



WATERWAY INFORMATION

Drainage Area = 0.44 mi.²

Exist. Overtopping Elev. 673.4 @ Sta. 2256+86.1

Prop. Overtopping Elev. @ Sta.

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	290	30	50	667.0	2.2	0.0	669.2	667.0
Base	50	480	30	55	667.8	5.7	1.0	673.4	668.8
Max. Calc.	100	570	35	60	667.9	5.8	2.3	673.8	670.2
	500	790	40	60	668.5	5.8	3.6	674.2	672.0

10 Year Velocity through Proposed Culvert = 8.8 fps

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Upstream	Downstream
	658.30	656.30

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Specifications with 2013 Interims

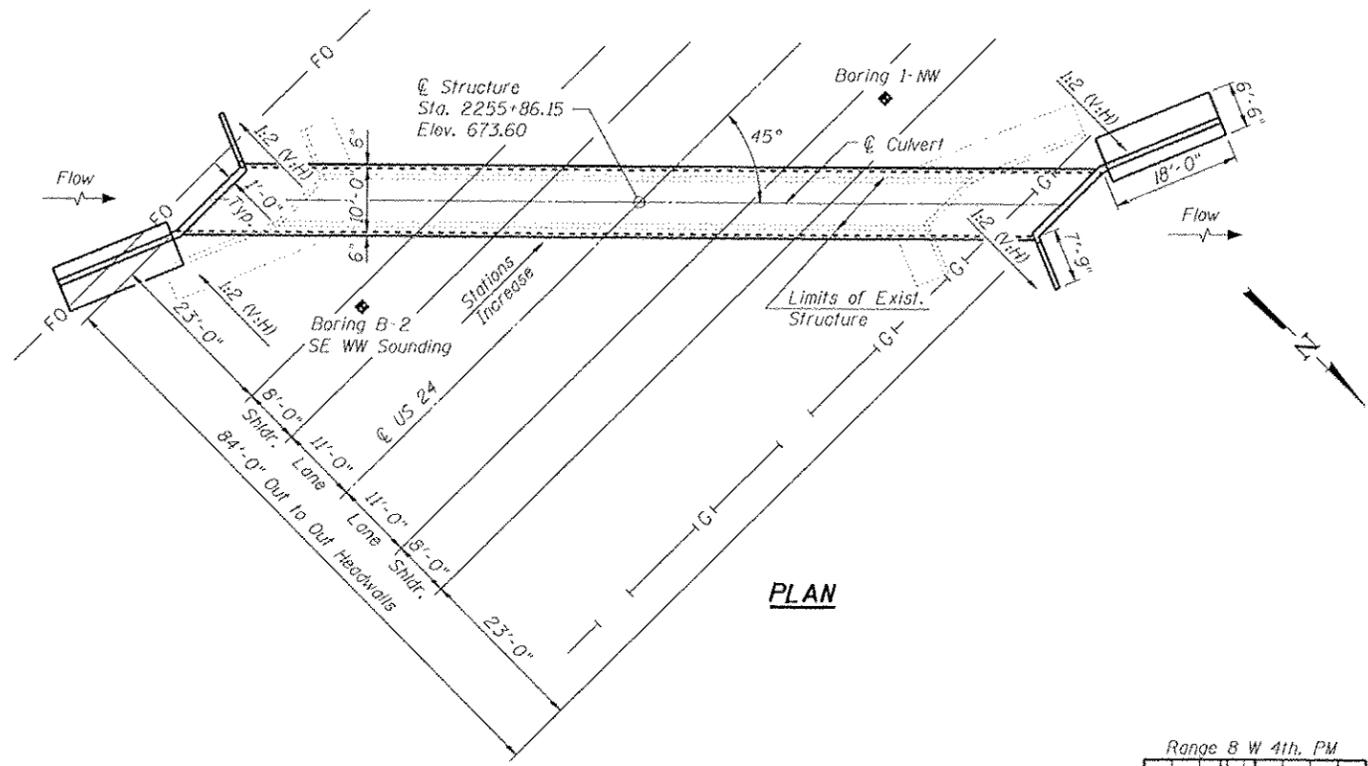
DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

GENERAL NOTES

Contact the District Geotechnical Engineer to verify foundation conditions meet plan requirements.
 For riprap layout and quantities, see Roadway Plans.



STATION 2255+86.15
 BUILT 201 BY
 STATE OF ILLINOIS
 F.A.P. RTE. 63 SEC. 1(RS-5, CR-1,2,3) 2(RS-6)
 LOADING HL-93
 STRUCTURE NO. 001-7129

NAME PLATE

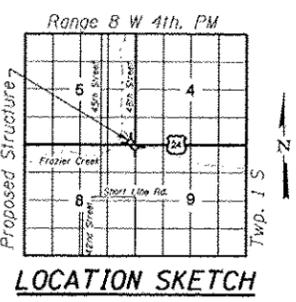
See Std. 515001

UTILITY LEGEND

G = Buried Gas Line
 FO = Buried Fiber Optic Line



Alan D. Lukens
 Licensed Structural Engineer
 State of Illinois No. 081-005167
 License Expires 11/30/2014



KLINGNER & ASSOCIATES, P.C.
 Engineers - Architects - Surveyors

1000 North 7th Street, Quincy, IL 62450
 1100 East Grand Road, Hannibal, MO 63450
 1100 North 1st Street, Quincy, IL 62450
 1100 North 1st Street, Quincy, IL 62450

Phone: (618) 292-3638, (618) 292-3639, (618) 292-3638, (618) 292-3638
 Fax: (618) 292-3639, (618) 292-3639, (618) 292-3639, (618) 292-3639

www.klingner.com

STATE OF ILLINOIS DESIGN FIRM # 1842738

DESIGNED - RJP	EXAMINED	DATE
CHECKED - ADL	ENGINEER OF BRIDGE DESIGN	
DRAWN - RJP	PASSED	REVISED
CHECKED - ADL	ENGINEER OF BRIDGES AND STRUCTURES	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
 STRUCTURE NUMBER 001-7129
 SHEET NO. 1 OF 5 SHEETS

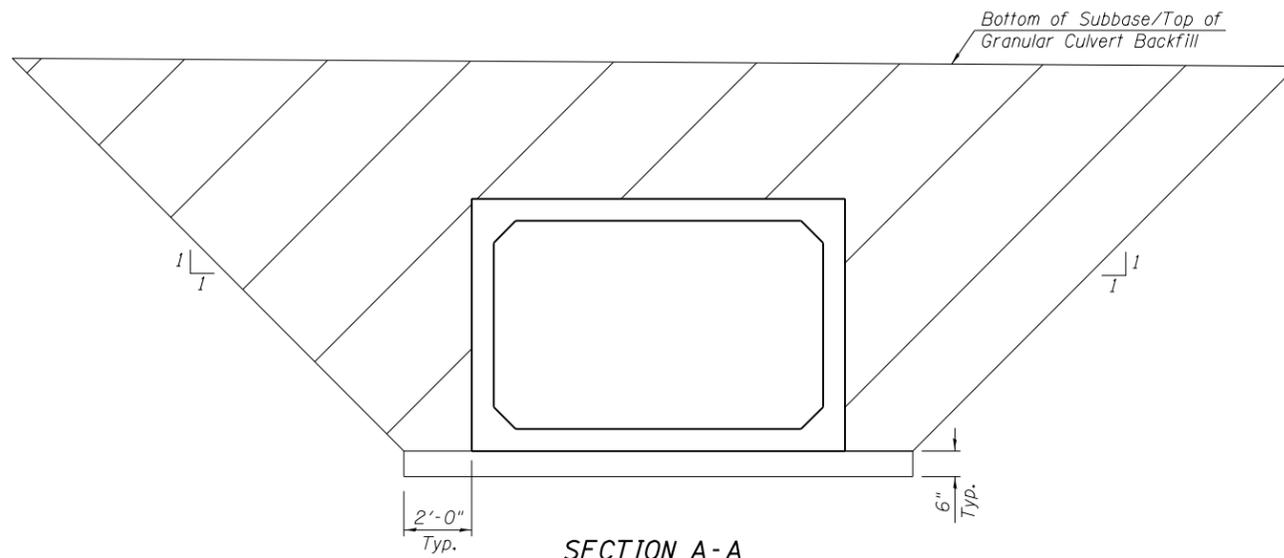
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
63	(1)CR-1, (2)CR	ADAMS	43	17

CONTRACT NO. 72C12

ILLINOIS FFD, AID PROJECT

Klingner & Associates P.C.

GENERAL PLAN & LONGITUDINAL SECTION
US 24 OVER TRIBUTARY TO FRAZIER CREEK
 F.A.P. ROUTE 63
 SECTION (IRS-5, CR-1,2,3) 2(RS-6)
 ADAMS COUNTY
 STATION 2255+86.15
 S.N. 001-7129

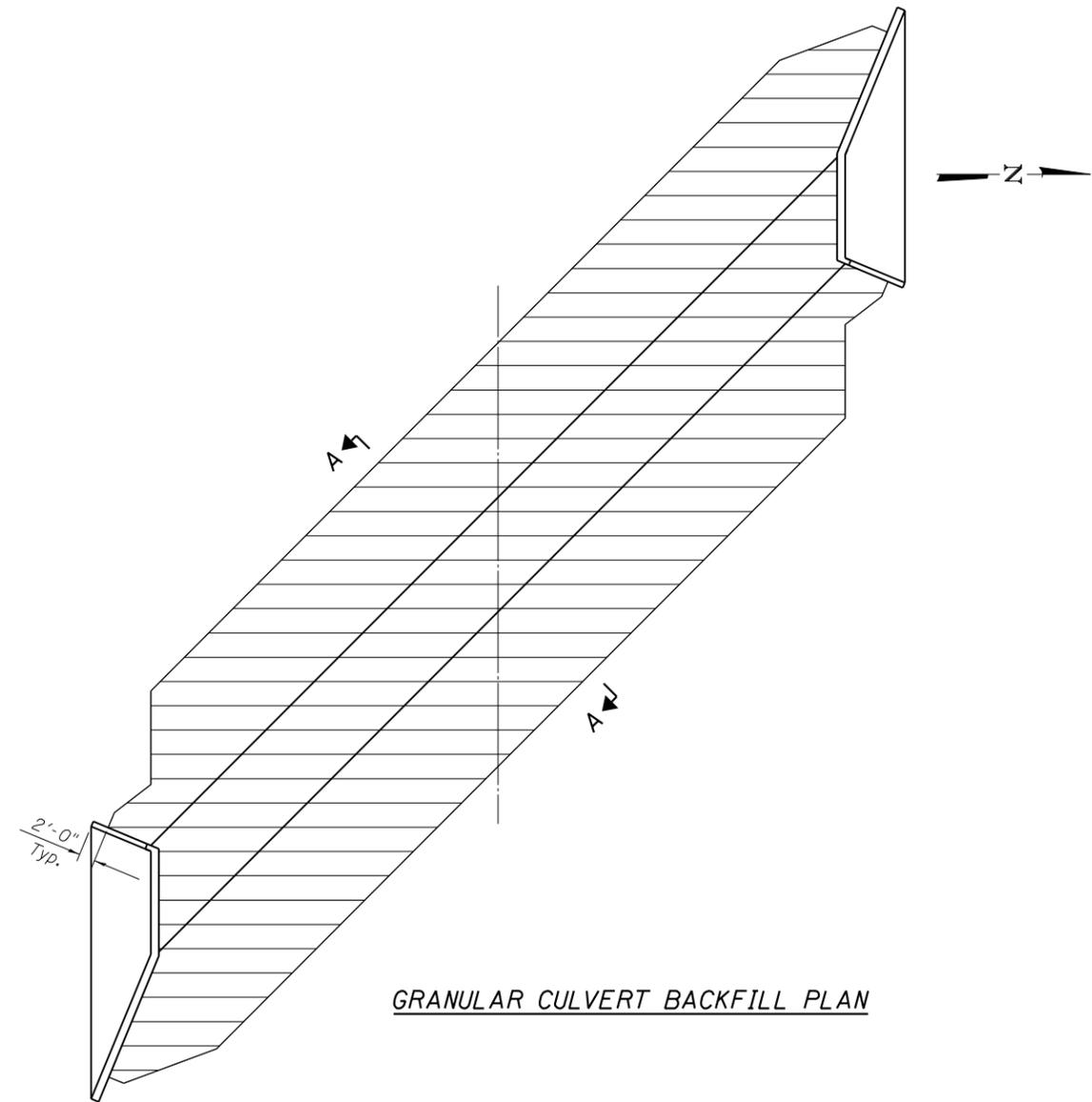


SECTION A-A

Note:
The area below the box and wingwalls shall be over excavated by 6 inches and filled with CA-7 or CA-11 to provide a level platform. Cost included with Concrete Box Culverts

SEQUENCE OF CONSTRUCTION

1. Remove existing culvert.
2. Construct proposed culvert.
3. Place Granular Culvert Backfill.
4. Pave roadway



GRANULAR CULVERT BACKFILL PLAN

DESIGNED - RJP	EXAMINED _____	DATE - _____
CHECKED - ADL	ENGINEER OF BRIDGE DESIGN	
DRAWN - RJP	PASSED _____	REVISED - SEB 10-25-13
CHECKED - ADL	ENGINEER OF BRIDGES AND STRUCTURES	REVISED _____

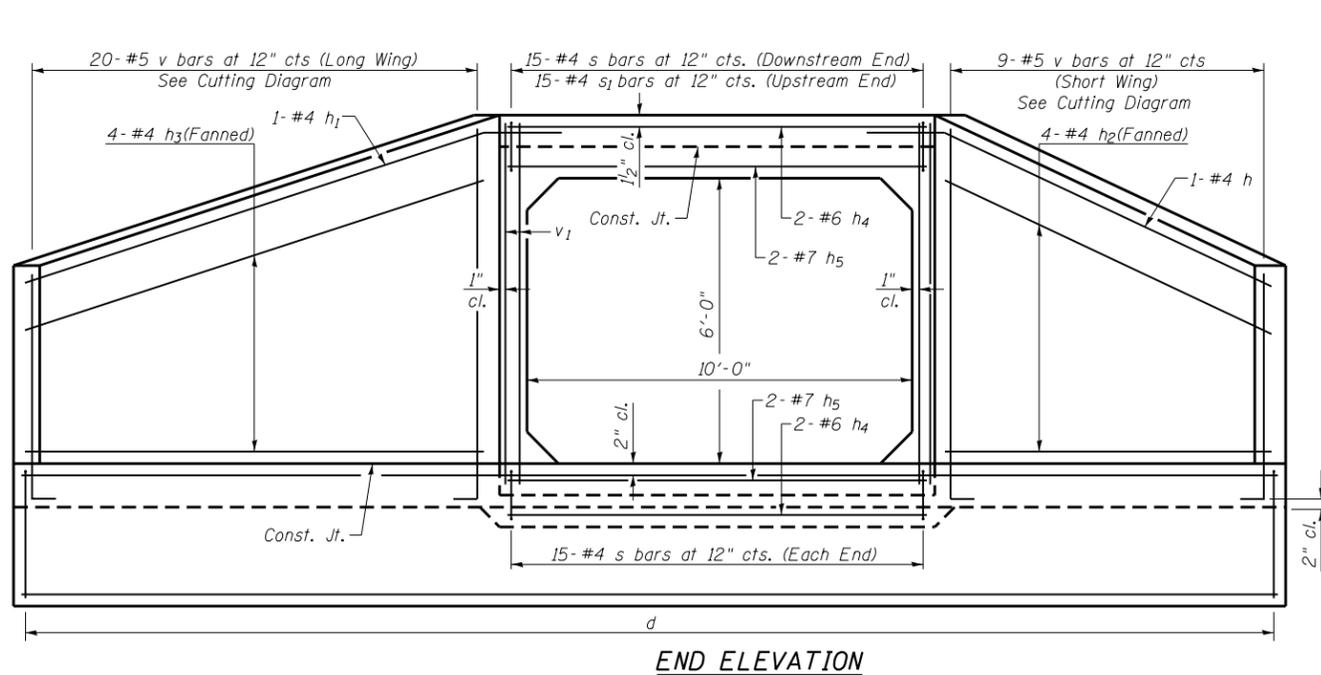
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA
STRUCTURE NUMBER 001-7129**

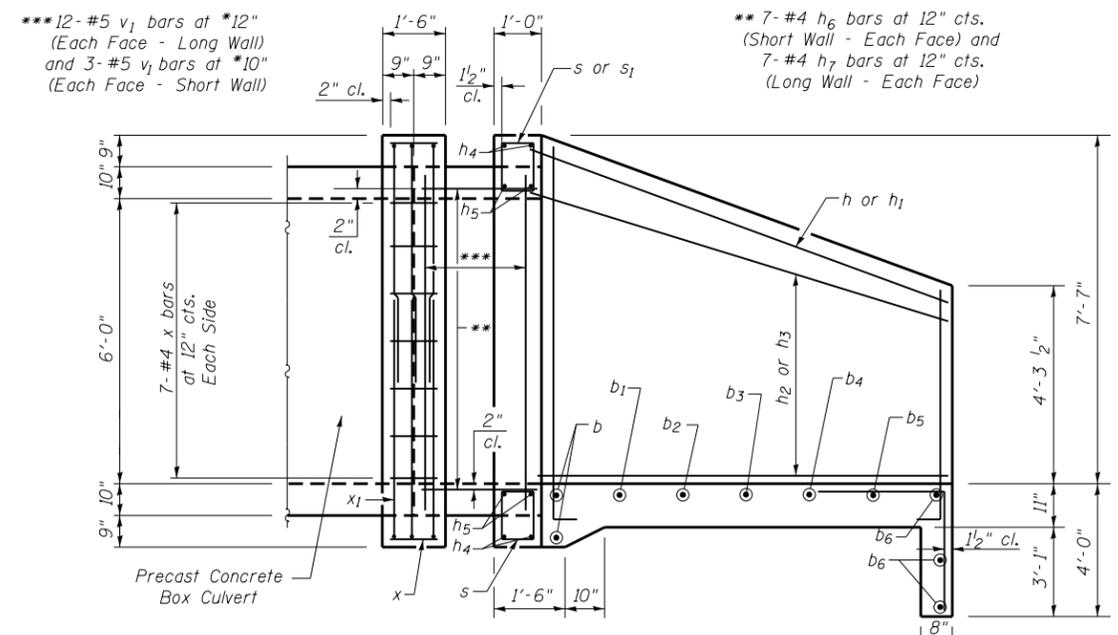
SHEET NO. 2 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
63	(1)CR-1, (2)CR	ADAMS	43	18
ILLINOIS FED. AID PROJECT			CONTRACT NO. 72C12	

Klingner & Associates P.C.



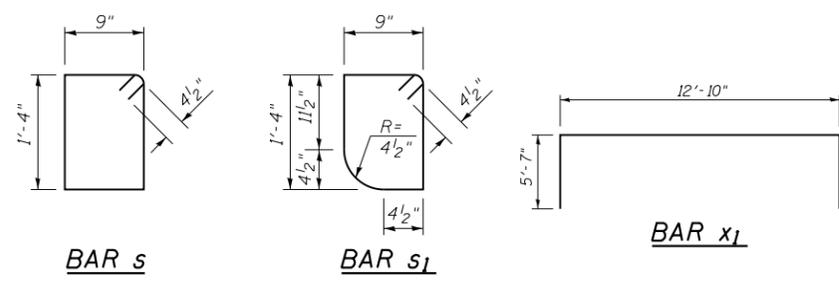
END ELEVATION



SECTION A-A

NOTES:

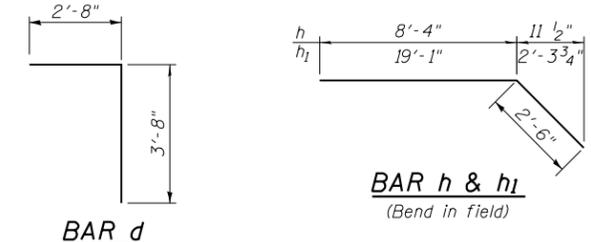
- Bill of Material for 2 end sections.
- Bar dimensions are out to out.
- Not to scale or proper orientation.
- Exposed edges shall be beveled $\frac{3}{4}$ ".
- Reinforcement bars shall conform to the requirements of ASTM A706 Gr 60. See Special Provisions.
- Headwall at 45° skew to culvert \perp .
- Minimum bar laps: #5 bar = 2'-2"



BAR s

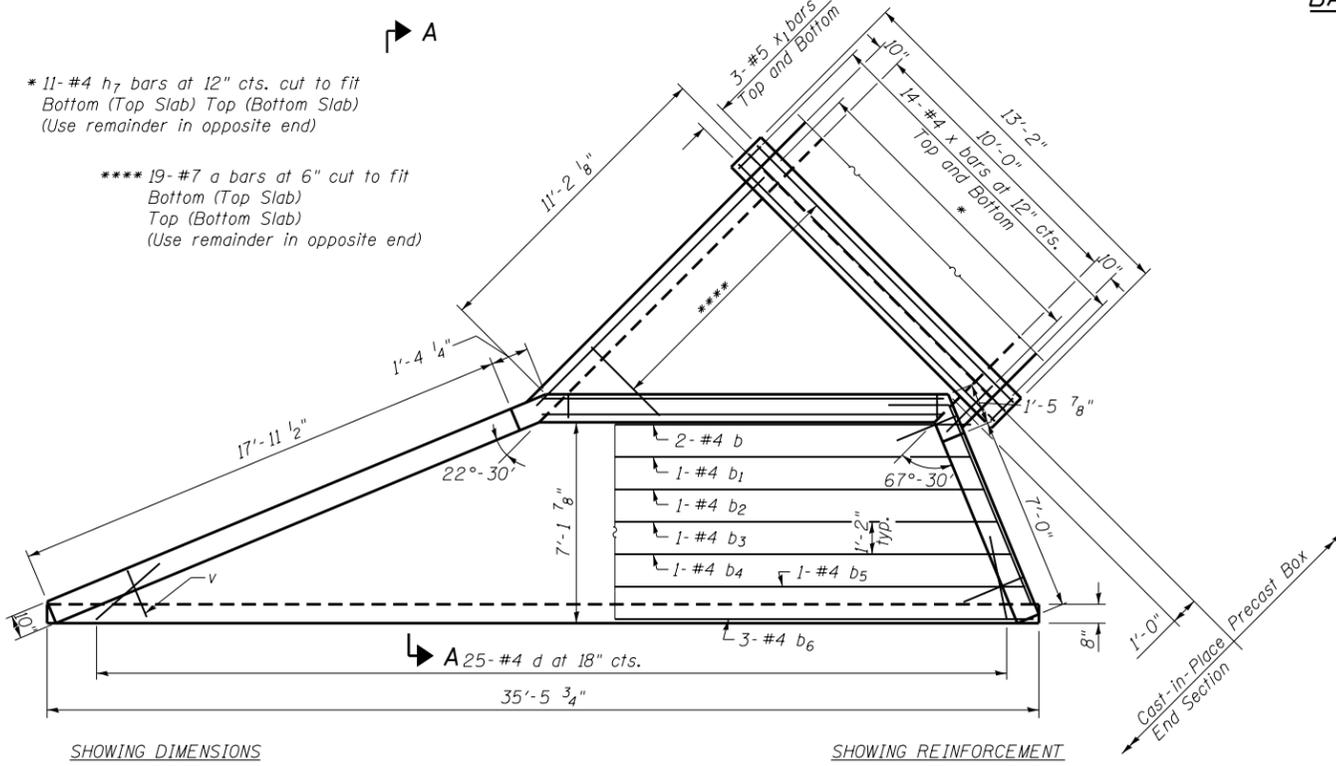
BAR s1

BAR x1

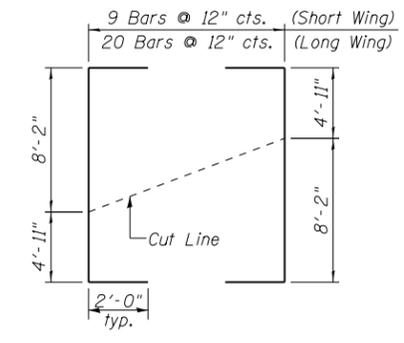


BAR d

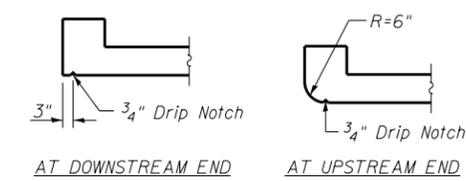
BAR h & h1
(Bend in field)



PLAN



FIELD CUTTING DIAGRAM
BAR v



SECTION THRU HEADWALL

BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a	38	#7	11'-4"		
b	4	#4	17'-0"		
b1	2	#4	20'-3"		
b2	2	#4	23'-5"		
b3	2	#4	26'-8"		
b4	2	#4	29'-10"		
b5	2	#4	33'-0"		
b6	6	#4	35'-2"		
d	50	#4	6'-4"		
h	2	#4	10'-10"		
h1	2	#4	21'-7"		
h2	8	#4	8'-2"		
h3	8	#4	19'-0"		
h4	8	#6	14'-3"		
h5	8	#7	14'-3"		
h6	28	#4	1'-10"		
h7	50	#4	11'-9"		
s	45	#4	4'-11"		
s1	15	#4	4'-9"		
v	29	#5	17'-1"		
v1	60	#5	7'-4"		
x	84	#4	1'-2"		
x1	12	#5	24'-0"		
Reinforcement Bars				Pound	4,010

DESIGNED - RJP	EXAMINED	DATE -
CHECKED - ADL	ENGINEER OF BRIDGE DESIGN	
DRAWN - SEB	PASSED	REVISED - SEB 10-28-13
CHECKED - ADL	ENGINEER OF BRIDGES AND STRUCTURES	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS
STRUCTURE NUMBER 001-7129

SHEET NO. 3 OF 5 SHEETS

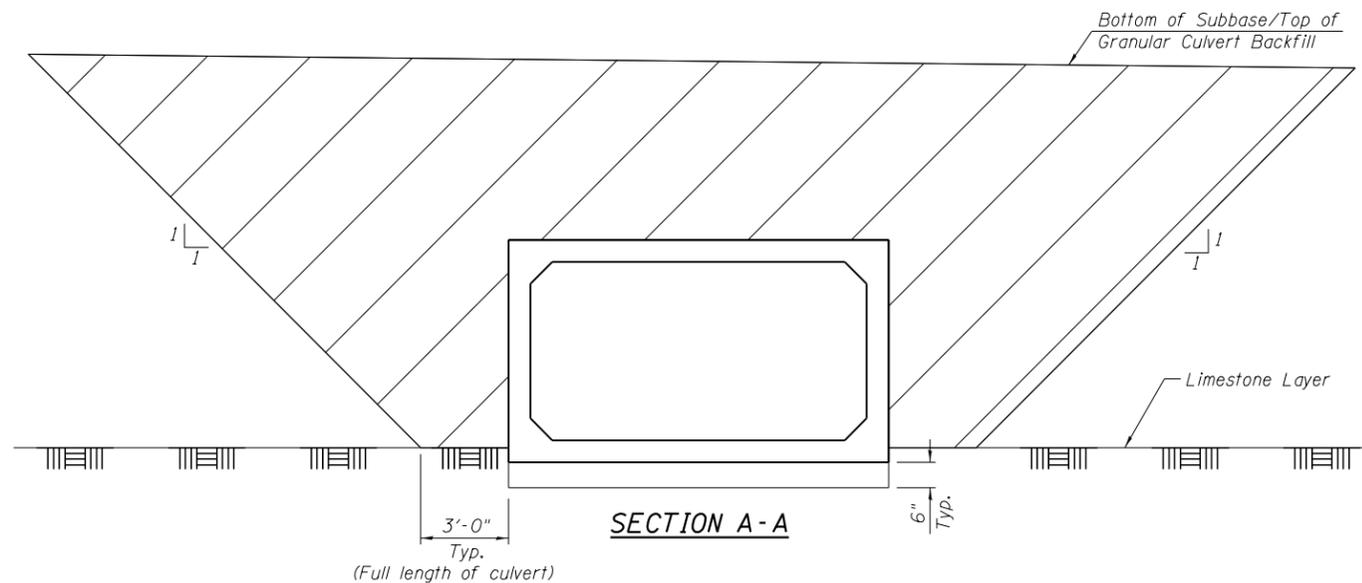
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
63	(1)CR-1, (2)CR	ADAMS	43	19
CONTRACT NO. 72C12				
ILLINOIS FED. AID PROJECT				
Klingner & Associates P.C.				

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DESIGNED - RJP	EXAMINED	DATE -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CULVERT DETAILS STRUCTURE NUMBER 001-7129	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CHECKED - ADL	ENGINEER OF BRIDGE DESIGN				63	(1)CR-1, (2)CR	ADAMS	43	20	
DRAWN - RJP	PASSED	REVISED - SEB 10-25-13			CONTRACT NO. 72C12					
CHECKED - ADL	ENGINEER OF BRIDGES AND STRUCTURES	REVISED			ILLINOIS FED. AID PROJECT					

SHEET NO. 4 OF 5 SHEETS

Klingner & Associates P.C.

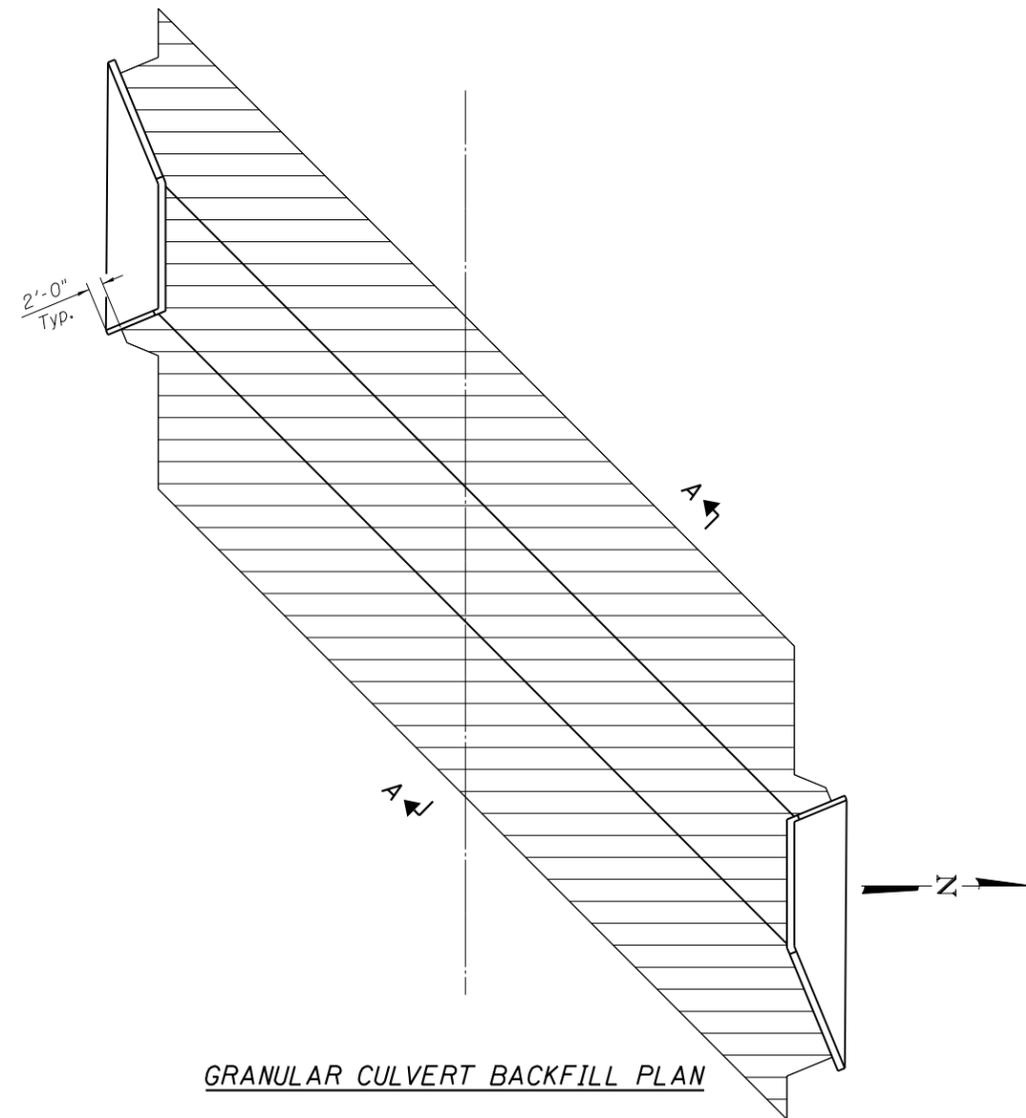


SECTION A-A

Note:
The area below the box and wingwalls shall be over excavated by 6 inches and filled with CA-7 or CA-11 to provide a level platform. Cost included with Concrete Box Culverts.

SEQUENCE OF CONSTRUCTION

1. Remove existing culvert.
2. Removal of rock for bottom slab and toewall of culvert.
3. Construct proposed culvert.
4. Place Granular Culvert Backfill.
5. Pave roadway



GRANULAR CULVERT BACKFILL PLAN

DESIGNED - RJP	EXAMINED _____	DATE - _____
CHECKED - ADL	ENGINEER OF BRIDGE DESIGN	
DRAWN - RDP	PASSED _____	REVISED - SEB 10-25-13
CHECKED - ADL	ENGINEER OF BRIDGES AND STRUCTURES	REVISED _____

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

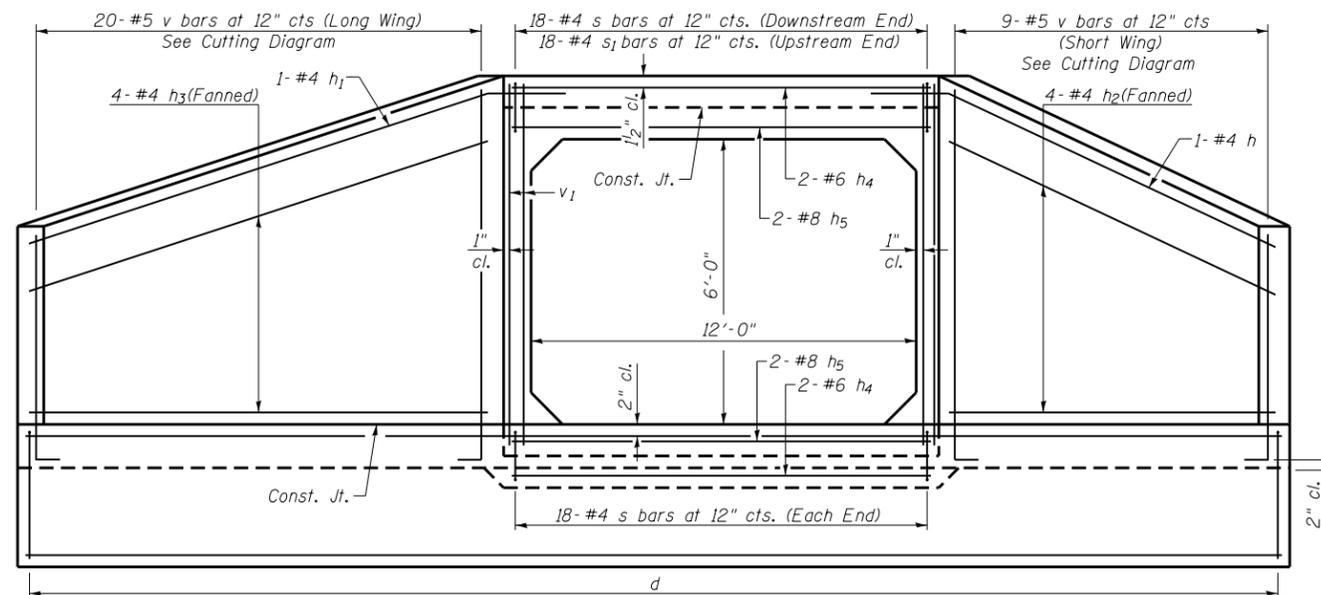
**GENERAL DATA
STRUCTURE NUMBER 001-7130**

SHEET NO. 2 OF 6 SHEETS

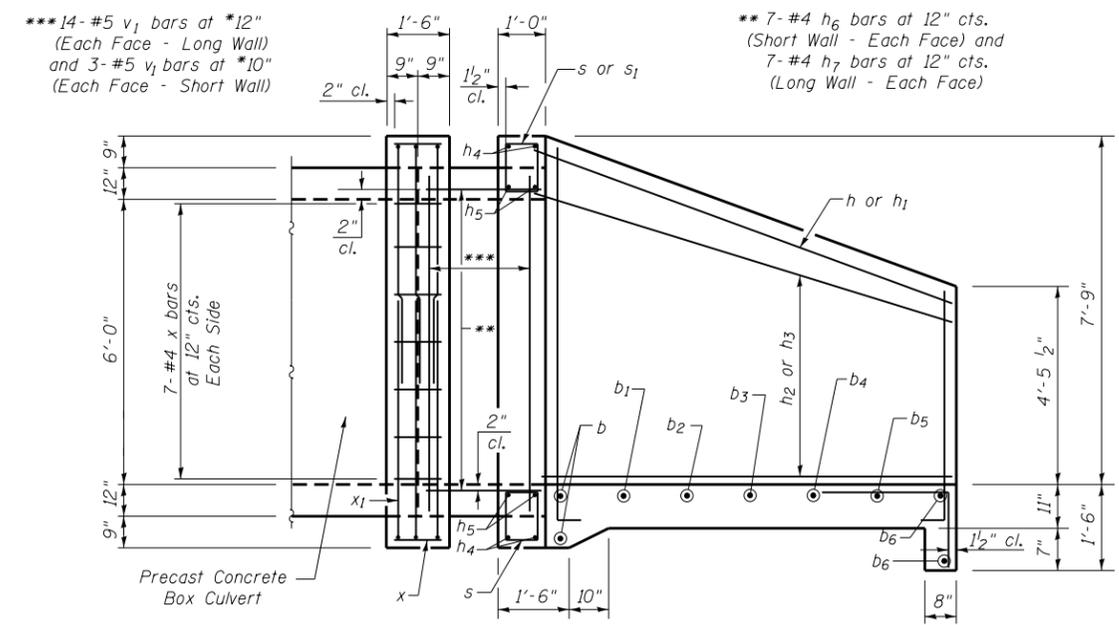
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
63	(1)CR-1, (2)CR	ADAMS	43	23
CONTRACT NO. 72C12				

ILLINOIS FED. AID PROJECT

Klingner & Associates P.C.



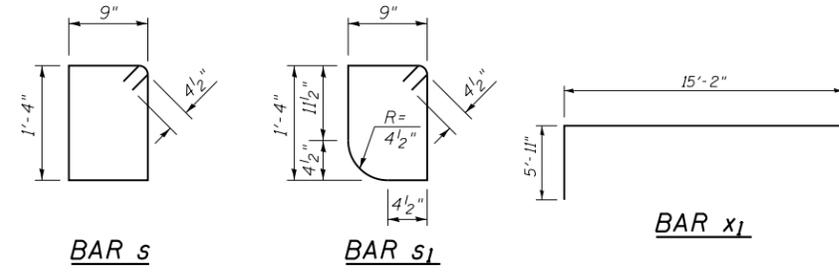
END ELEVATION



SECTION A-A

NOTES:

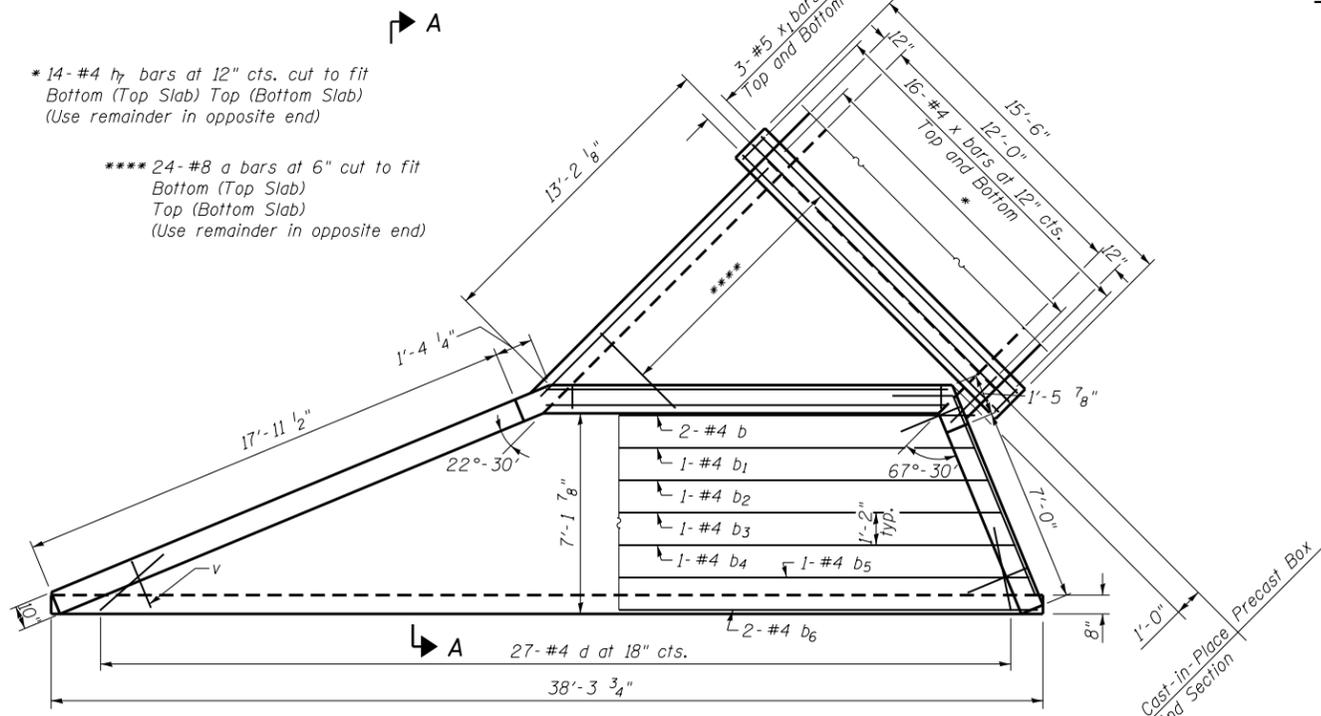
- Bill of Material for 2 end sections.
- Bar dimensions are out to out.
- Not to scale or proper orientation.
- Exposed edges shall be beveled 3/4".
- Reinforcement bars shall conform to the requirements of ASTM A706 Gr 60. See Special Provisions.
- Headwall at 45° skew to culvert C.
- Minimum bar laps: #5 bar = 2'-2"



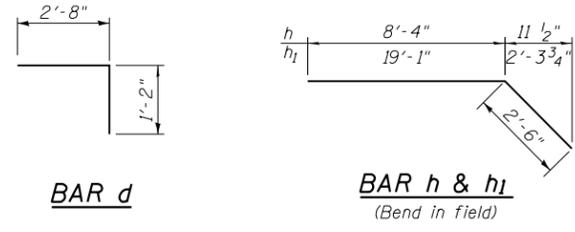
BAR s

BAR s1

BAR x1

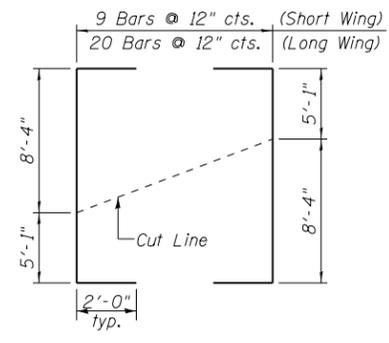


PLAN



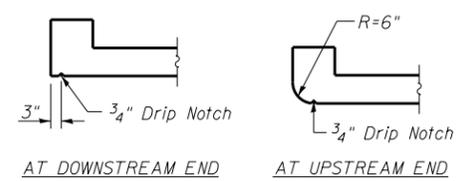
BAR d

BAR h & h1
(Bend in field)



FIELD CUTTING DIAGRAM

BAR v



SECTION THRU HEADWALL

BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a	48	#8	13'-8"	—	
b	4	#4	19'-10"	—	
b1	2	#4	23'-1"	—	
b2	2	#4	26'-3"	—	
b3	2	#4	29'-6"	—	
b4	2	#4	32'-8"	—	
b5	2	#4	35'-10"	—	
b6	4	#4	38'-0"	—	
d	54	#4	3'-1"	└	
h	2	#4	10'-10"	└	
h1	2	#4	21'-7"	└	
h2	8	#4	8'-2"	—	
h3	8	#4	19'-0"	—	
h4	8	#6	17'-1"	—	
h5	8	#8	17'-1"	—	
h6	28	#4	1'-10"	—	
h7	56	#4	13'-9"	—	
s	54	#4	4'-11"	□	
s1	18	#4	4'-9"	□	
v	29	#5	17'-5"	└	
v1	68	#5	7'-8"	—	
x	92	#4	1'-2"	—	
x1	12	#5	27'-0"	└	
Reinforcement Bars				Pound	5,190

DESIGNED - RJP
 CHECKED - ADL
 DRAWN - RJP
 CHECKED - ADL

EXAMINED _____
 ENGINEER OF BRIDGE DESIGN
 PASSED _____
 ENGINEER OF BRIDGES AND STRUCTURES

DATE - _____
 REVISED - SEB 10-25-13
 REVISED _____

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CULVERT DETAILS
STRUCTURE NUMBER 001-7130

SHEET NO. 3 OF 6 SHEETS

F.A.P. RTE. 63 SECTION (1)CR-1, (2)CR COUNTY ADAMS TOTAL SHEETS 43 SHEET NO. 24 CONTRACT NO. 72C12

ILLINOIS FED. AID PROJECT
 Klingner & Associates P.C.

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DESIGNED - RJP	EXAMINED	DATE -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CULVERT DETAILS STRUCTURE NUMBER 001-7130	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
CHECKED - ADL	ENGINEER OF BRIDGE DESIGN				63	(1)CR-1, (2)CR	ADAMS	43	25	
DRAWN - RJP	PASSED	REVISED - SEB 10-25-13			CONTRACT NO. 72C12					
CHECKED - ADL	ENGINEER OF BRIDGES AND STRUCTURES	REVISED			ILLINOIS FED. AID PROJECT					

SHEET NO. 4 OF 6 SHEETS

Klingner & Associates P.C.



SOIL BORING LOG

Page 1 of 1

Date 12/16/11

ROUTE US RT 24 DESCRIPTION Culvert over Frazier Creek LOGGED BY M. Tappan
 SECTION 1(RS-5, CR-1.2,3)(RS-6) LOCATION SE 1/4, SEC. 5, TWP. 1S, RNG. 8W, 4 PM
 COUNTY Adams DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO.	STATION	DEPTH (ft)	BLOW (ft)	UCS (tsf)	MOIST (%)	DESCRIPTION	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:
001-2509	2260+00					Gravel Fill	655.6	655.4	
		1	2						
		2	8						
		3	4						
		4	1						
	665.30	9	4	1.2	17	Dk Gray Moist CLAY LOAM (Fill)			
		10	4	B					
		11	2						
	663.30	12	3	1.4	26	Brown and Gray Moist SILTY CLAY			
		13	4	B					
		14	2						
		15	2	1.0	19				
		16	3	S-12					
	659.30	17	0			Dk Gray V. Moist SILTY CLAY LOAM			
		18	0	0.4	30				
		19	2	B					
	656.30	20	7			Brown Poorly Indurated Argillaceous LIMESTONE Weathered			
		21	100/	3"					
		22	100/	3"		FREE WATER Very Weathered			
	653.80	23	3"			Boring Complete Auger Refusal at 15 ft			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T208) BBS, from 137 (Rev. 8-99)

BORING 1-NE



SOIL BORING LOG

Page 1 of 1

Date 7/11/13

ROUTE US RT 24 DESCRIPTION Culvert over Frazier Creek LOGGED BY M. Tappan
 SECTION 1(RS-5, CR-1.2,3)(RS-6) LOCATION SE 1/4, SEC. 5, TWP. 1S, RNG. 8W, 4 PM
 COUNTY Adams DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO.	STATION	DEPTH (ft)	BLOW (ft)	UCS (tsf)	MOIST (%)	DESCRIPTION	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:
001-2509	2260+00					Blind Drilled to Auger Refusal Started Rock Core			
		1							
		2							
		3							
		4							
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Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 1

Date 7/12/13

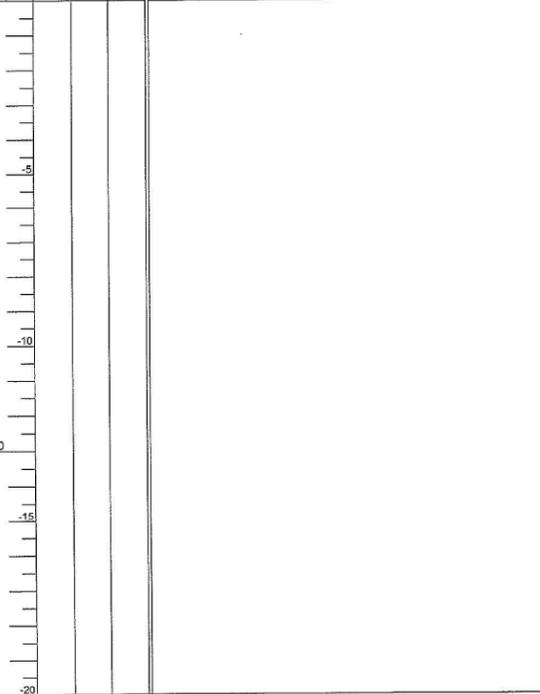
ROUTE US RT 24 DESCRIPTION Culvert over Frazier Creek LOGGED BY M. Tappan
SECTION CR-1.2.3(2)(RS-6) LOCATION SE 1/4, SEC. 5, TWP. 1S, RNG. 8W, 4 PM
COUNTY Adams DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. 001-2509
Station 2260+00
BORING NO. 3 SE WW
Station 2260+07
Offset 15.0ft LT
Ground Surface Elev. 669.1 ft

DEPTHS
BLOWS
UCS
MOIST
Qu

Surface Water Elev. _____ ft
Stream Bed Elev. 655.4 ft
Groundwater Elev.:
First Encounter cored w/ water _____ ft
Upon Completion cored w/ water _____ ft
After Hrs. Plugged _____ ft

Drill to Auger Refusal at 7.5 ft and Started coring
Corec thru Concrete from 7-8 ft then soil to 13ft
Started Rock Core at 13 ft



The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

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Latitude: 40.0 2.467N Longitude: 91.0 20.424W Datum: NAD83 Job Number:

BORING 3 SE WW



Illinois Department of Transportation
Division of Highways
IDOT

ROCK CORE LOG

Page 1 of 1

Date 7/12/13

ROUTE US RT 24 DESCRIPTION Culvert over Frazier Creek LOGGED BY M. Tappan
SECTION CR-1.2.3(2)(RS-6) LOCATION SE 1/4, SEC. 5, TWP. 1S, RNG. 8W, 4 PM
COUNTY Adams CORING METHOD Water

STRUCT. NO. 001-2509 CORING BARREL TYPE & SIZE NQ2WL
Station 2260+00
BORING NO. 3 SE WW
Station 2260+07
Offset 15.0ft LT
Ground Surface Elev. 669.1 ft

RECOVERY
CORRECTION
CORE
STRENGTH

DEPTH (ft)	RECOVERY (%)	CORRECTION (%)	CORE (min/ft)	STRENGTH (tsf)
656.10	100	80		
651.30				
650.80	82	72		194
				52.6
	100			94
				30.6

Color pictures of the cores Yes, On File
Cores will be stored for examination until 5 Years after Construction
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
RQD is the ratio of the total length of sound core specimens >4" to total length of core run BBS, form 138 (Rev. 8-99)

ROCK CORE 001-2509 OVER FRAZIER CREEK.GPJ Data Template: D:\TEMP\11.1.13\DOT Data Print\01/2/13



Illinois Department of Transportation
Division of Highways
IDOT

SOIL BORING LOG

Page 1 of 1

Date 7/12/13

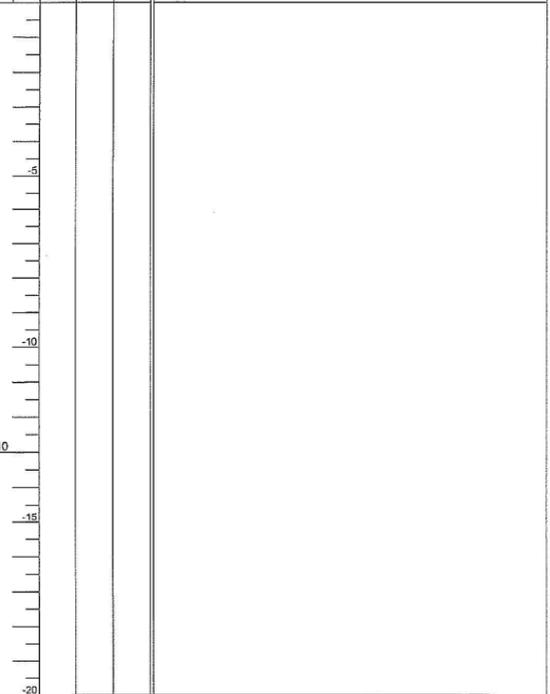
ROUTE US RT 24 DESCRIPTION Culvert over Frazier Creek LOGGED BY M. Tappan
SECTION CR-1.2.3(2)(RS-6) LOCATION SE 1/4, SEC. 5, TWP. 1S, RNG. 8W, 4 PM
COUNTY Adams DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. 001-2509
Station 2260+00
BORING NO. 4 SW Sounding
Station 2260+07
Offset 15.0ft LT
Ground Surface Elev. 669.1 ft

DEPTHS
BLOWS
UCS
MOIST
Qu

Surface Water Elev. 655.8 ft
Stream Bed Elev. 655.8 ft
Groundwater Elev.:
First Encounter No Encounter _____ ft
Upon Completion Dry _____ ft
After Hrs. Plugged _____ ft

Blind Drill to Auger Refusal
Top of Rock at 12.5 ft
Auger Refusal at 13 ft

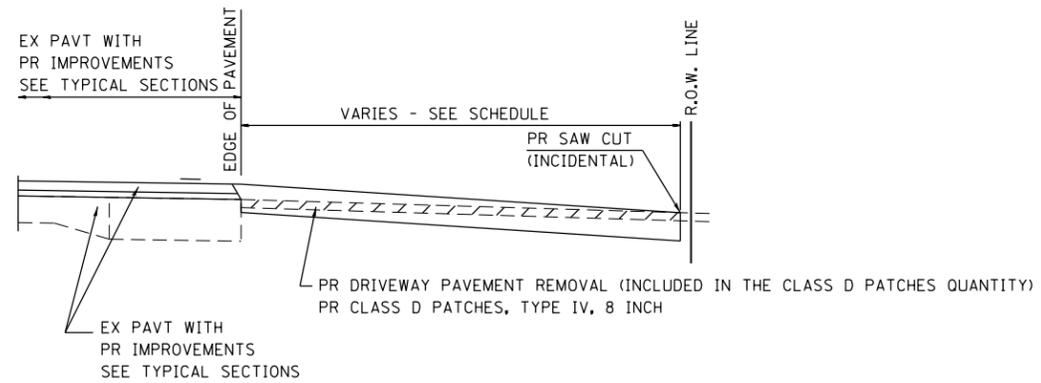
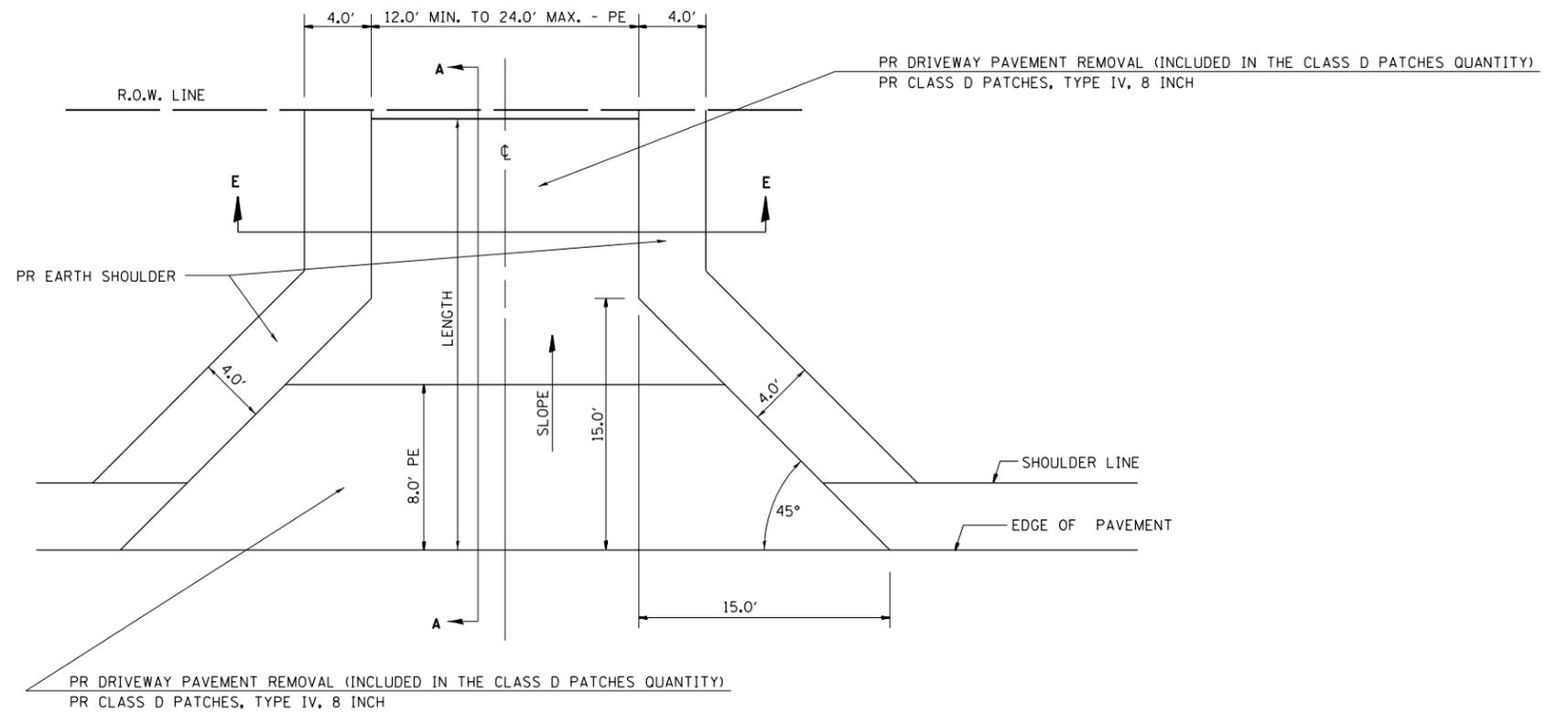


The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

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Latitude: 40.0 2.467N Longitude: 91.0 20.424W Datum: NAD83 Job Number:

BORING 4 SW SOUNDING

DESIGNED - RJP	EXAMINED _____	DATE - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BORINGS STRUCTURE NUMBER 001-7130	F.A.P. RTE. 63	SECTION (1)CR-1, (2)CR	COUNTY ADAMS	TOTAL SHEETS 43	SHEET NO. 27	
CHECKED - ADL	ENGINEER OF BRIDGE DESIGN	REVISOR _____			CONTRACT NO. 72C12					
DRAWN - RJP	PASSED _____	REVISION _____			SHEET NO. 6 OF 6 SHEETS					
CHECKED - ADL	ENGINEER OF BRIDGES AND STRUCTURES	REVISION _____			ILLINOIS FED. AID PROJECT					



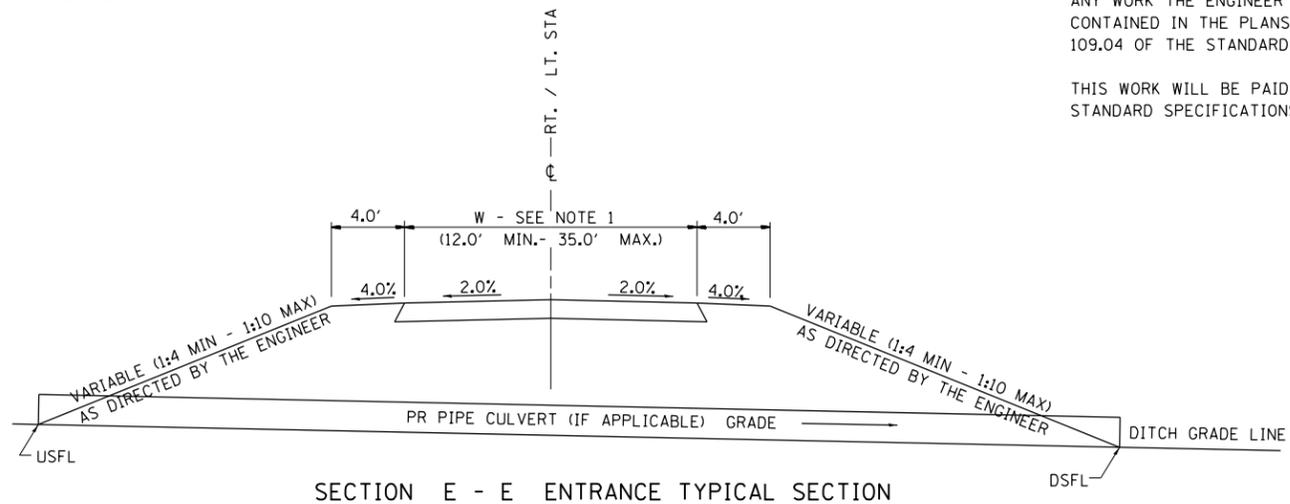
SECTION A-A FOR EX HOT-MIX ASPHALT PE

GENERAL NOTES:

THE PLAN DETAILS AND SCHEDULES SHOULD BE USED AS A GUIDE FOR THE ENGINEER TO IMPLEMENT THE FINAL DESIGN. THE ENGINEER MAY DECIDE TO SALVAGE PORTIONS OF THE EXISTING ENTRANCE PAVEMENT STRUCTURE; THEREFORE, REDUCING PAY ITEM QUANTITIES. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR THIS REDUCTION IN QUANTITIES.

ANY WORK THE ENGINEER REQUIRES WHICH IS NOT COVERED BY A PAY ITEM CONTAINED IN THE PLANS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

THIS WORK WILL BE PAID FOR IN ACCORDANCE WITH SECTION 442 OF THE STANDARD SPECIFICATIONS WHICH PRICE SHALL INCLUDE DRIVEWAY PAVEMENT REMOVAL.



NOTE 1: WIDTH OF ENTRANCE MAY BE INCREASED AT THE PIPE CULVERT DUE TO THE DITCHLINE BEING LOCATED IN THE ENTRANCE FLARE AREA.

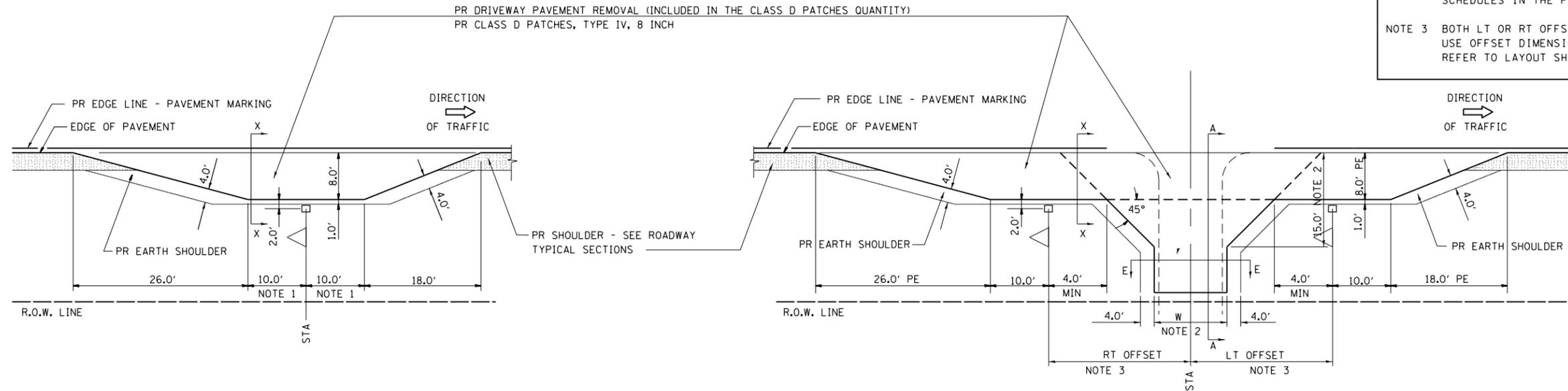
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Q:\08files\080224\WO 1 - US 24 over Frazier Creek - Structure Plans\SN 001-7098 & SN 002-7099\CADD Sheets\D672C12-sht-detail.dwg								SCALE: none	SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.	63	(1)CR-1, (2)CR
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -	REVISED -		CONTRACT NO. 72C12				FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT						
PLOT DATE = 10/29/2013	DATE -	REVISED -	REVISED -												

DETAILS OF MAILBOX TURNOUTS

- NOTE 1 IF MORE THAN ONE MAILBOX IS PRESENT, DIMENSION FROM CENTER OF END MAILBOX.

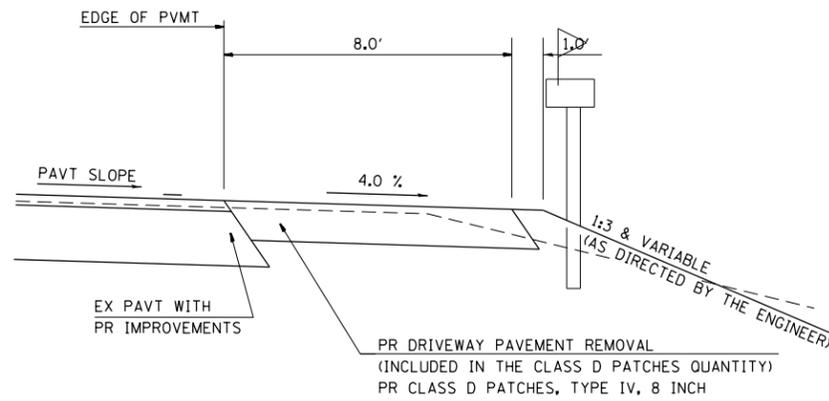
NOTE 2 FOR ENTRANCE LAYOUT DIMENSIONS AND SECTIONS A-A & E-E REFER TO THE SCHEDULES IN THE PLANS.

NOTE 3 BOTH LT OR RT OFFSETS FOR MAILBOX SHOWN USE OFFSET DIMENSION PER SCHEDULE AND REFER TO LAYOUT SHOWN ON THE PLAN.



PLAN - MAILBOX TURNOUTS

PLAN - COMBINED MAILBOX TURNOUT WITH TRAILING OR LEADING ENTRANCE



SECTION X-X THRU MAILBOX TURNOUT

FILE NAME =	USER NAME = seb	DESIGNED -	REVISED -
Q:\08files\080224\WO 1 - US 24 over Frazier Creek - Structure Plans\SN 001-7098 & S	DRAWN BY CABO Sheets\0672C12-sht-detail	CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

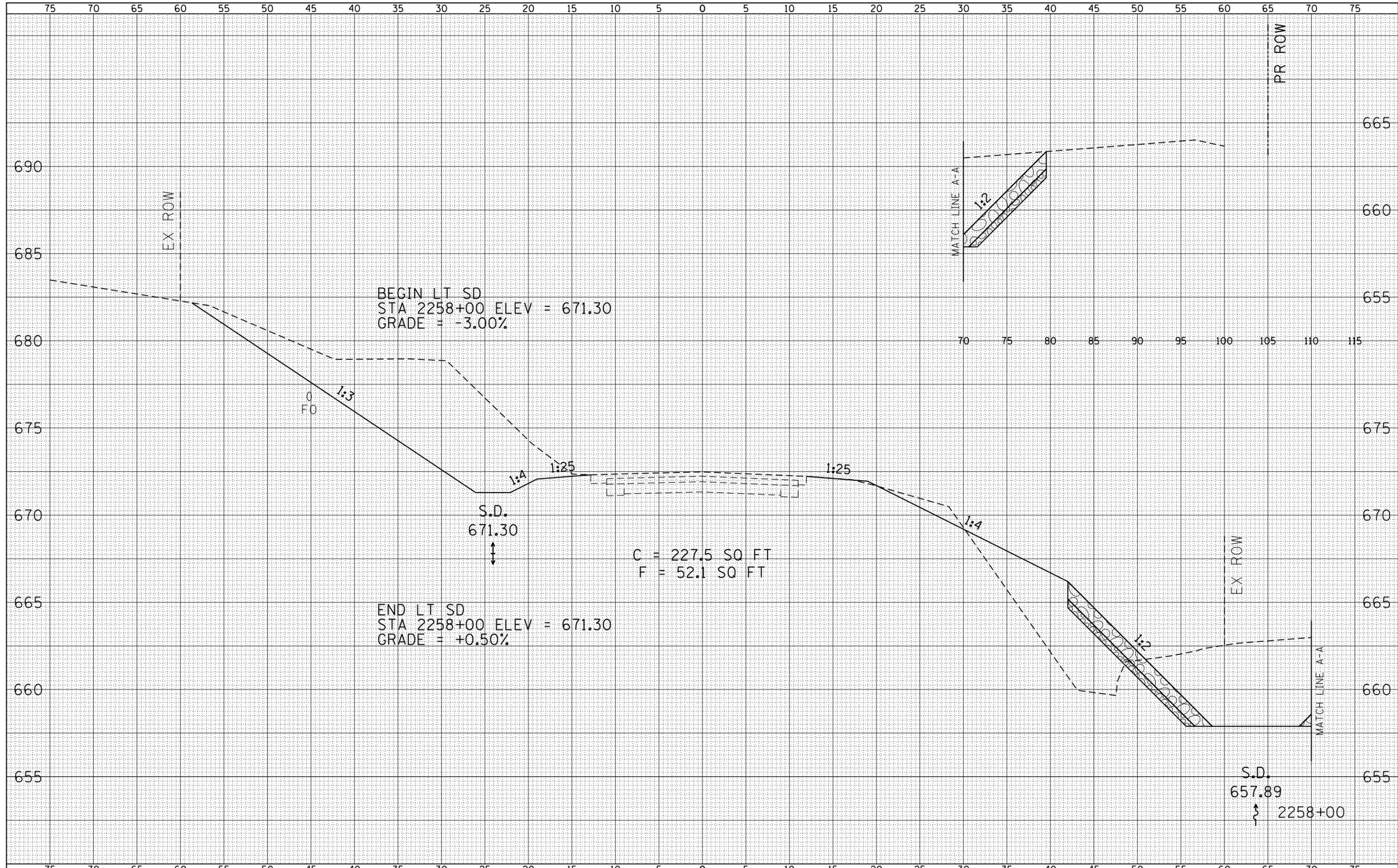
MAILBOX TURNOUT DETAILS

SCALE: none SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
63	(1)CR-1, (2)CR	ADAMS	43	29
CONTRACT NO. 72C12				
FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT				

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

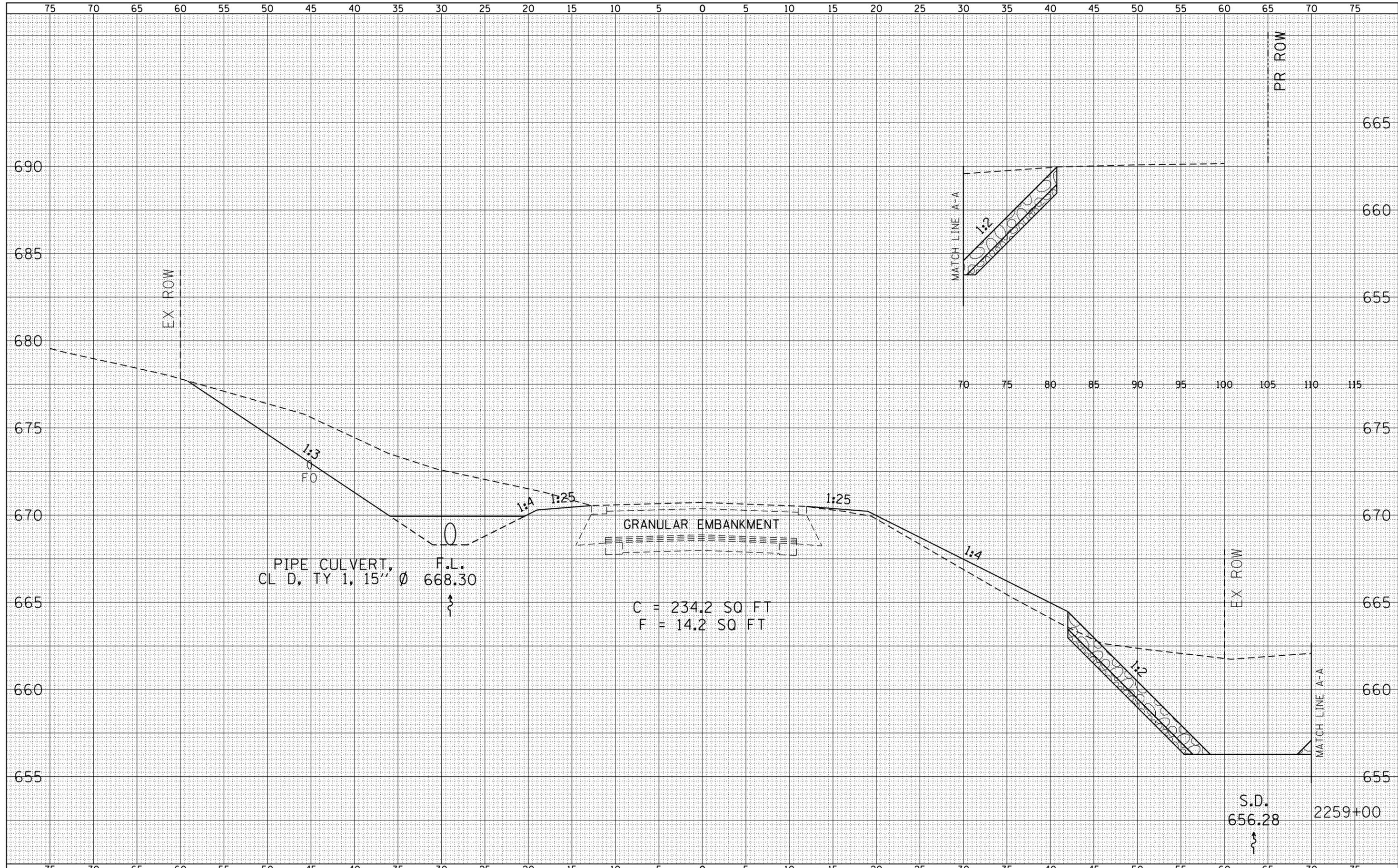
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NOTE BOOK	
AREAS CHECKED	
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FILE NAME =	USER NAME = seb	DESIGNED -	REVISIED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
G:\08files\080224\WO 1 - US 24 over Frazier Creek - Structure Plans\SN 001-7098 & SN 001-7099\DRAWING Sheets\D672C12-sht-XS.dgn		REVISIED -	REVISIED -		63	(1)CR-1, (2)CR	ADAMS	43	35		
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISIED -	REVISIED -		CONTRACT NO. 72C12						
PLOT DATE = 10/29/2013	DATE -	REVISIED -	REVISIED -		FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT						
				SCALE: 1"=5'H	SHEET NO. 6 OF 14 SHEETS	STA. 2258+00 TO STA. 2258+00					

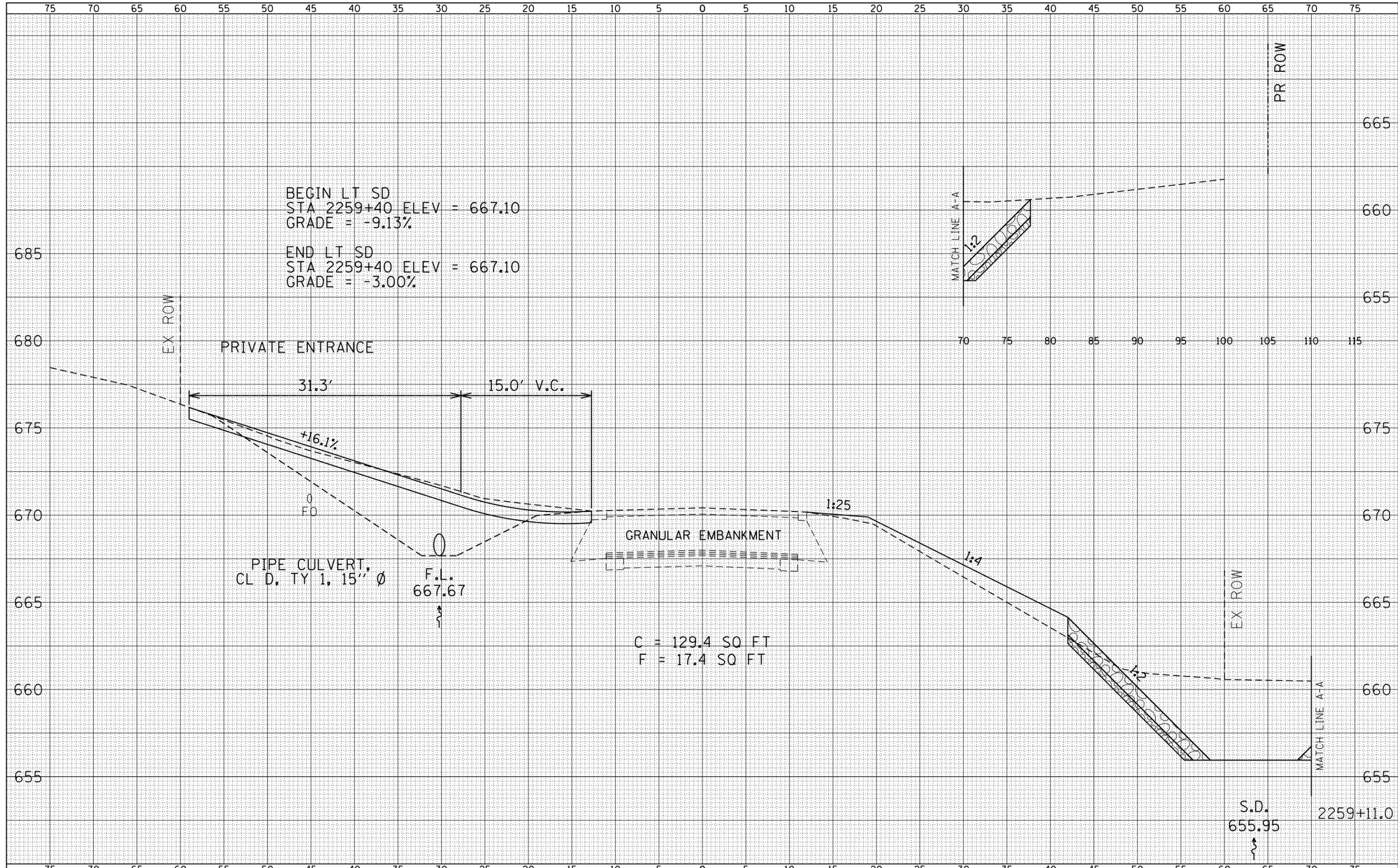
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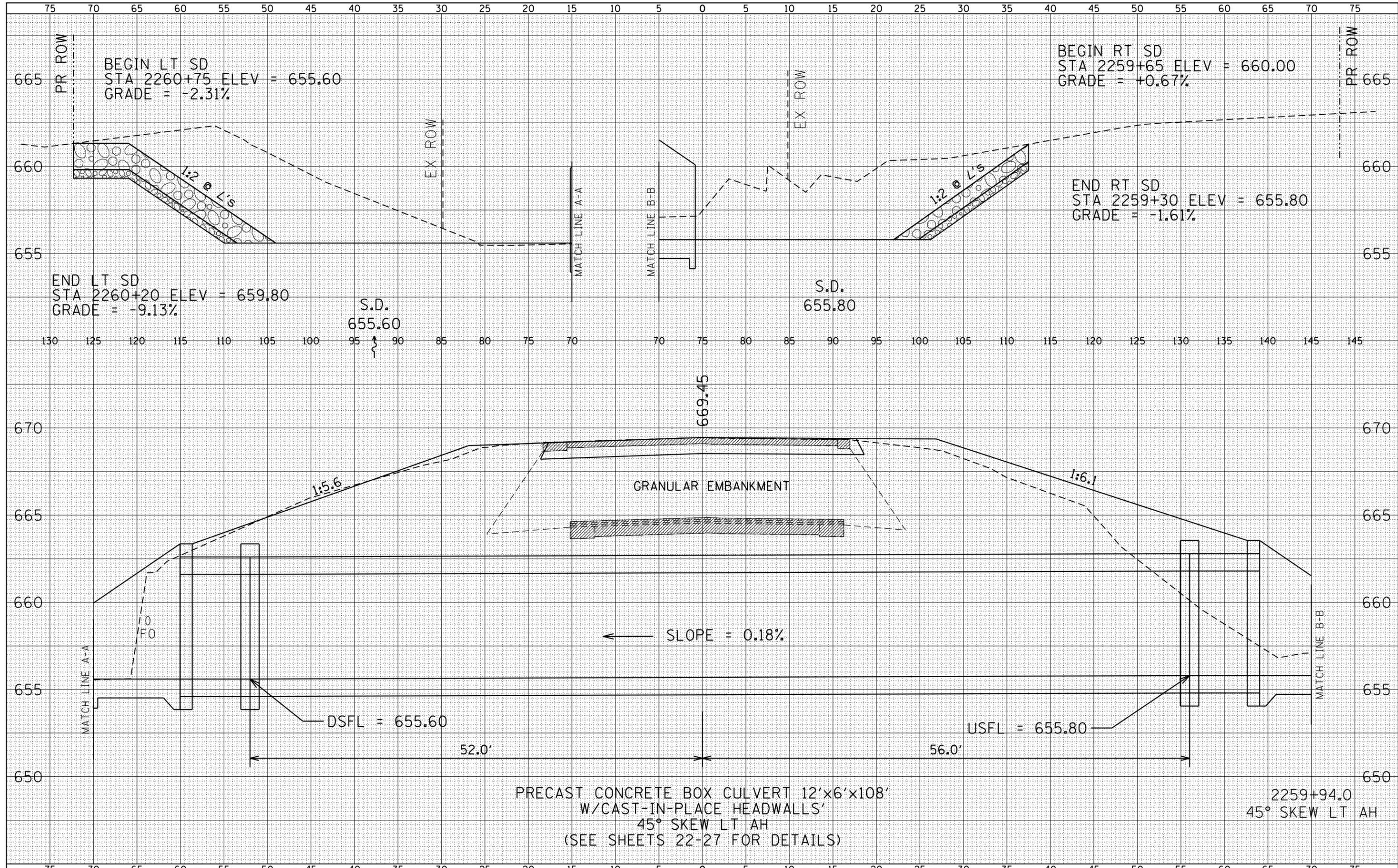
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AREAS CHECKED	
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DATE	
BY	
FINAL SURVEY	
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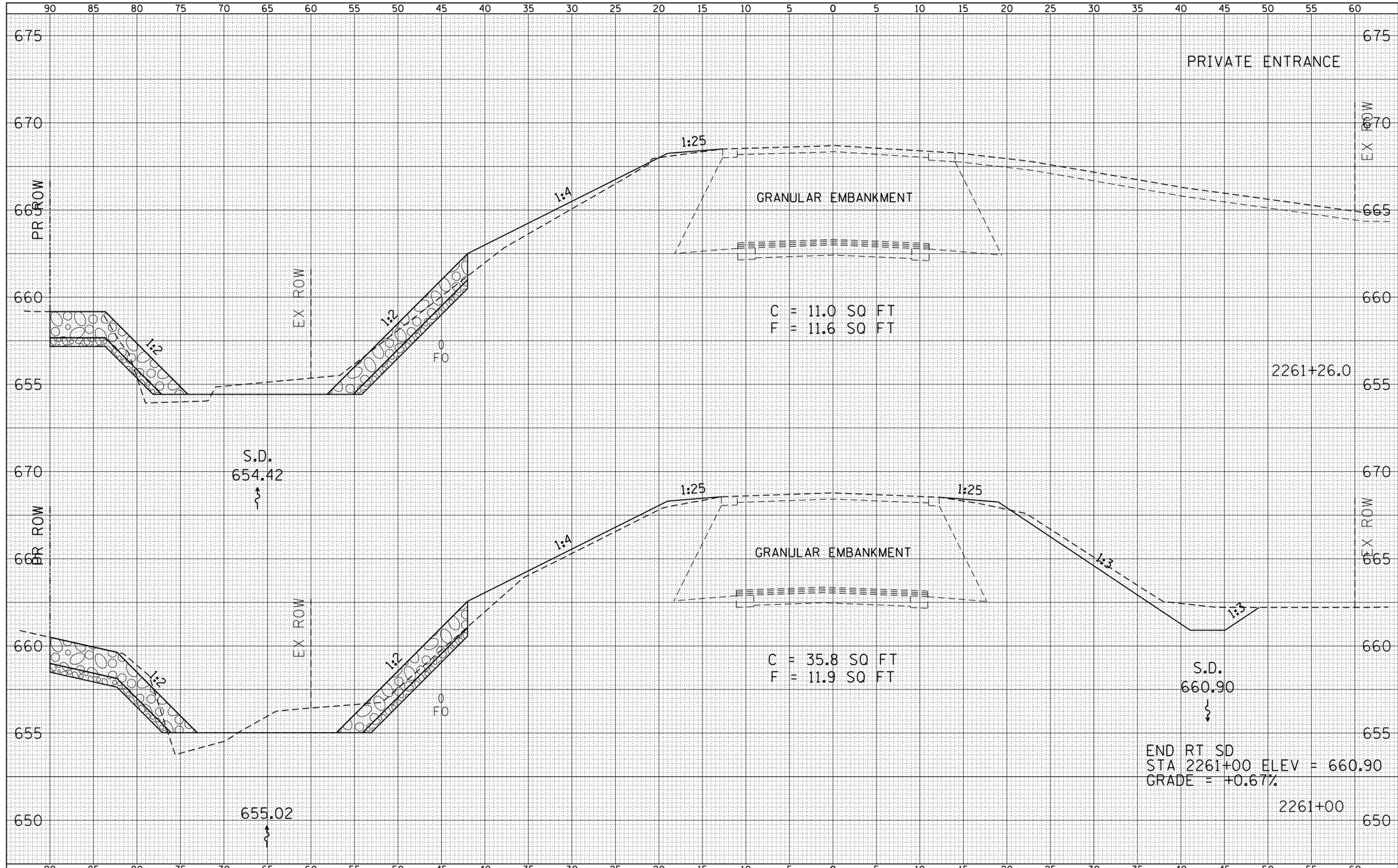
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FILE NAME =	USER NAME = seb	DESIGNED -	REVISOR -	DATE -	SCALE: 1"=5'H	SHEET NO. 9 OF 14 SHEETS	STA. 2259+94 TO STA. 2259+94	F.A.P. RTE. 63	SECTION (1)CR-1, (2)CR	COUNTY ADAMS	TOTAL SHEETS 43	SHEET NO. 38
G:\08files\080224\WO 1 - US 24 over Frazier Creek - Structure Plans\SN 001-7098 & SN 001-7099\DRAWING Sheets\D672C12-sht-XS.dgn		DRANNO	EBB	10/28/13	1"=2.5'V							
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISOR -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION									
PLOT DATE = 10/29/2013	DATE -	REVISOR -	CROSS SECTIONS									
			CONTRACT NO. 72C12									
			FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT									

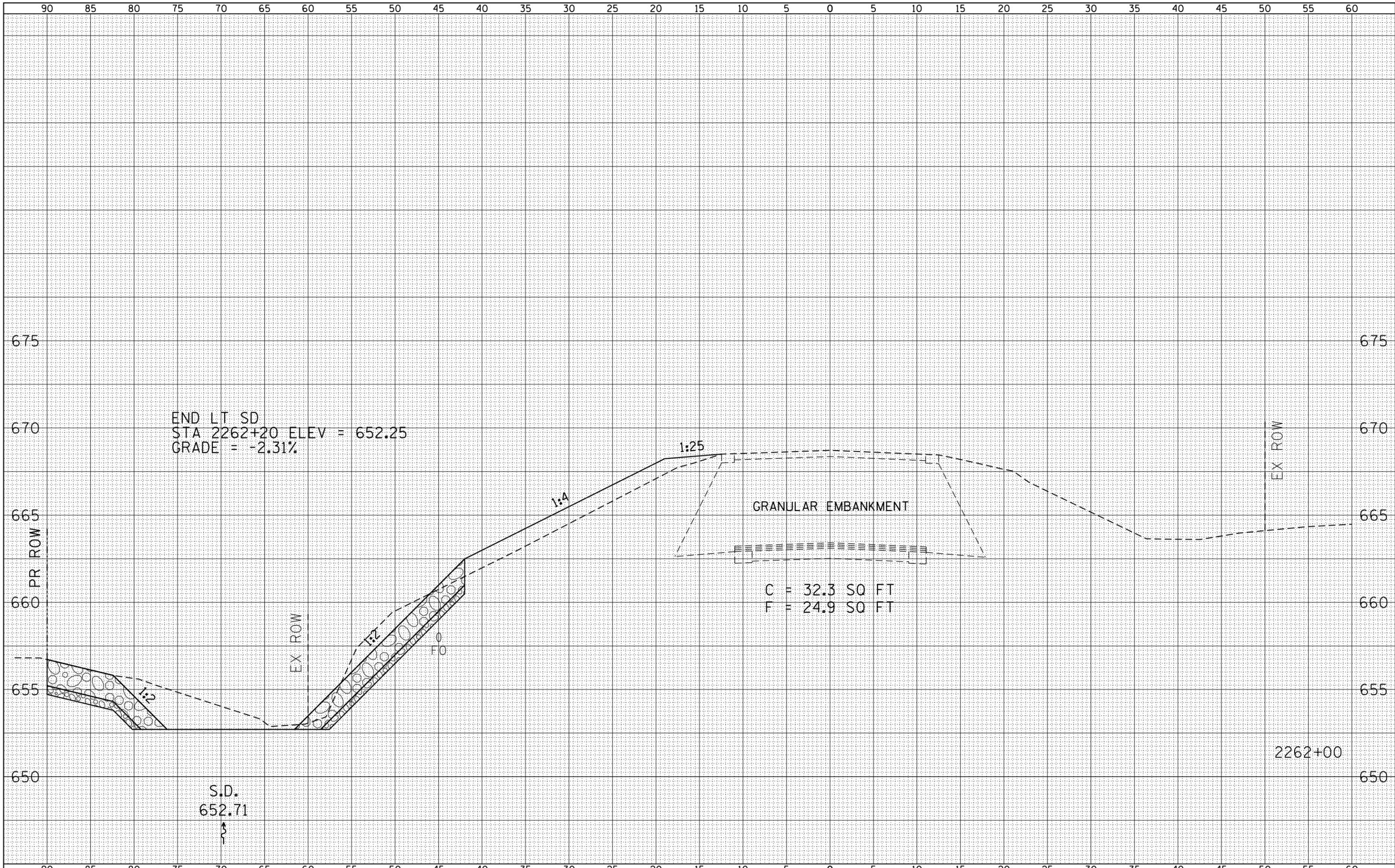
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FINAL SURVEY	
NOTE BOOK	
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ORIGINAL SURVEY	
NOTE BOOK	
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FILE NAME =	USER NAME = seb	DESIGNED -	REVISED -
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PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -	REVISED -
PLOT DATE = 10/29/2013	DATE -	REVISED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CROSS SECTIONS	
SCALE: 1"=5'H 1"=25'V	SHEET NO. 12 OF 14 SHEETS STA. 2262+00 TO STA. 2262+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
63	(1)CR-1, (2)CR	ADAMS	43	41
CONTRACT NO. 72C12			FED. ROAD DIST. NO. 6 ILLINOIS FED. AID PROJECT	

