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 HIGHWAY STANDARDS



**LIST OF ILLINOIS DOT HIGHWAY STANDARDS**

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
442201-03	CLASS C AND D PATCHES
515001-03	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
602401-03	MANHOLE, TYPE A
602601-02	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
604001-03	FRAMES AND LIDS, TYPE 1
630001-10	STEEL PLATE BEAM GUARDRAIL
630101-09	GUARDRAIL MOUNTED ON EXISTING CULVERTS
631011-09	TRAFFIC BARRIER TERMINAL, TYPE 2
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
666001-01	RIGHT-OF-WAY MARKERS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-04	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-03	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701321-13	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
701901-02	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-03	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-03	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

**GENERAL NOTES**

- THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.
- EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
- CONTRACTOR SHALL VERTICALLY SAW CUT EDGES OF EXISTING HOT MIX ASPHALT SURFACE FLUSH WITH EXISTING PAVEMENT PRIOR TO CONSTRUCTING NEW BASE COURSE WIDENING. COST TO BE INCLUDED IN HMA BASE COURSE WIDENING.
- AT ALL LOCATIONS WHERE THE PROPOSED HOT MIX ASPHALT OR CONCRETE PAVEMENT JOINS AN EXISTING HOT MIX ASPHALT OR CONCRETE PAVEMENT, A FULL DEPTH SAWED JOINT SHALL BE CONSTRUCTED. THE COST OF THIS JOINT WILL BE INCLUDED IN THE COST OF THE TYPE OF PAVEMENT BEING CONSTRUCTED.
- ACTUAL SIZE AND LOCATIONS OF ADDITIONAL PATCHES, OTHER THAN THOSE NOTED IN THE PLANS, WILL BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER.
- IN ADDITION TO FIELD SURVEYS AND AERIAL 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. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE BID UNIT PRICE FOR THE WORK.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR REESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.
- THE THICKNESS OF HMA MIXTURES SHOWN ON THE PLANS IS THE 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 HMA MIXTURE IS PLACED.
- ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER LISTED ON THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.
- FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:
 

ALL HOT-MIX ASPHALT	0.056 TONS/SQ YD•IN
AGGREGATE SHOULDERS, TYPE B	2.05 TONS/CU YD
BITUMINOUS MATERIALS:	
PRIME COAT (PAVEMENT)	0.00038 TONS/SQ YD
PRIME COAT (AGGREGATE)	0.002 TONS/SQ YD
FERTILIZER NUTRIENTS	90 LB/ACRE
AGRICULTURAL GROUND LIMESTONE	2 TONS/ACRE
TEMPORARY EROSION CONTROL SEEDING	100 LB/ACRE
MULCH, METHOD 2	2 TONS/ACRE
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE JULIE NUMBER IS 800-892-0123. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED PRIOR TO THE START OF ANY EXCAVATION OR DEMOLITION.
- ALL UTILITIES TO BE RELOCATED BY OTHERS.
- ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
- ALL DISTURBED AREAS WITHIN THE R.O.W. AND EASEMENTS SHALL BE SEEDED, FERTILIZED AND MULCHED, AS DIRECTED BY THE ENGINEER. SEEDING SHALL BE ACCORDING TO THE APPLICABLE ARTICLES OF SECTION 250 OF THE STANDARD SPECIFICATIONS. SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION.
- THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION FOR THE INITIAL OPENING OF THE COMPLETED STRUCTURE TO TWO LANE TRAFFIC, AND ONE ADDITIONAL APPLICATION.
- FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SANDBAGS PER BARRICADE.
- ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.
- EARTHWORK COMPACTION SHALL BE IN ACCORDANCE WITH ARTICLE 205.06 OF THE STANDARD SPECIFICATIONS.
- ATTAINMENT OF PROPER CROWN OR SUPERELEVATION SHALL BE FULLY ACCOMPLISHED WITH THE HOT MIX ASPHALT BINDER COURSE OR LEVELING BINDER, WHEN SPECIFIED.
- EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION WILL BE REMOVED OR RELOCATED AS DIRECTED BY THE ENGINEER. AFTER CONSTRUCTION IS COMPLETED, THE CONTRACTOR WILL REPLACE THE SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT AND NO COMPENSATION WILL BE ALLOWED.

- THE LOCATION OF ANY NO PASSING ZONES WILL BE DOCUMENTED PRIOR TO RESURFACING. NOTIFY THE BUREAU OF OPERATIONS SO THE NO PASSING ZONES CAN BE FIELD VERIFIED (217) 785-5312.
- PRIOR TO PLACEMENT OF THE FINAL PAVEMENT MARKINGS THE RESIDENT ENGINEER SHOULD CONTACT THE BUREAU OF OPERATIONS AND ARRANGE FOR INSPECTION AND APPROVAL OF THE FINAL PAVEMENT MARKING LAYOUT.
- IF SO DIRECTED BY THE ENGINEER, DITCHES ADJACENT TO EMBANKMENTS SHALL BE CONSTRUCTED PRIOR TO STARTING THE CONSTRUCTION OF THE EMBANKMENT FILL.

**COMMITMENTS**

- THE FIELD/RESIDENT ENGINEER SHALL CONTACT DISTRICT 6 STUDIES AND PLANS AT CONCERNING ANY MAJOR PLAN CHANGES TO ENSURE THAT ANY PREVIOUS COMMITMENTS (NOT LISTED) THAT WERE MADE AFFECTING THE DESIGN ARE MET, AND TO ALLOW IMPROVEMENTS TO THE DESIGN FOR FUTURE PROJECTS.
- TO ACCOMMODATE THE OWNER OF PARCELS 628B101 A & B, THE 14 FOOT WIDE RESTRICTION ON THE TEMPORARY RUNAROUND WILL ONLY BE IN FORCE BETWEEN JUNE 1, 2013 AND SEPTEMBER 15, 2013. THE OWNER WILL BE PROVIDED ACCESS AT ALL TIMES TO HIS FIELDS AND HAS BEEN ADVISED THAT ACCESS WILL INVOLVE ADVERSE TRAVEL UTILIZING TOWNSHIP ROADS BETWEEN JUNE 1, 2013 AND SEPTEMBER 15, 2013.

**HMA MIXTURES REQUIREMENTS**

MIXTURE USE(S):	HMA SURFACING, INCIDENTAL SURFACING	LEVELING BINDER	HMA BINDER, HMA BASE COURSE, BASE COURSE WIDENING & PATCHING
AC/PG GRADE:	PG64-22	PG64-22	PG64-22
DESIGN AIR Voids	4.0%, N50	4.0%, N50	4.0%, N50
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL-9.5	IL-9.5	IL-19.0
FRICTION AGGREGATE:	MIX "C"	NONE	NONE

**DISTRICT SIX**

EXAMINED 12/7/12 20 12  
*William M. Beyer*  
 OPERATIONS ENGINEER

EXAMINED Dec 12 20 12  
*JRM LJ*  
 PROGRAM DEVELOPMENT ENGINEER

EXAMINED Dec 10 20 12  
*Tommy F. L.*  
 PROJECT IMPLEMENTATION ENGINEER

REvised 2-28-2013

FILE NAME: D672862-sh1-gemmo.dgn  
 MODEL: Default  
 PLOT DRIVER: VBI\_PDF\_Plotter.fg



USER NAME: mmann	DESIGNED: MCV	REVISED:
FILE NAME: D672862-sh1-gemmo.dgn	DRAWN: CMM	REVISED:
PLOT SCALE: 100.0000' / 1"	CHECKED: MTM	REVISED:
PLOT DATE: 12/17/2012	DATE: 12/12	REVISED:

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SCALE:	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.
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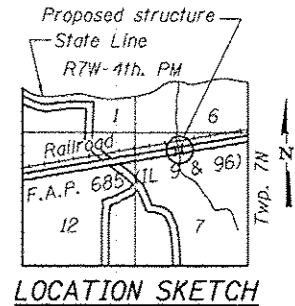
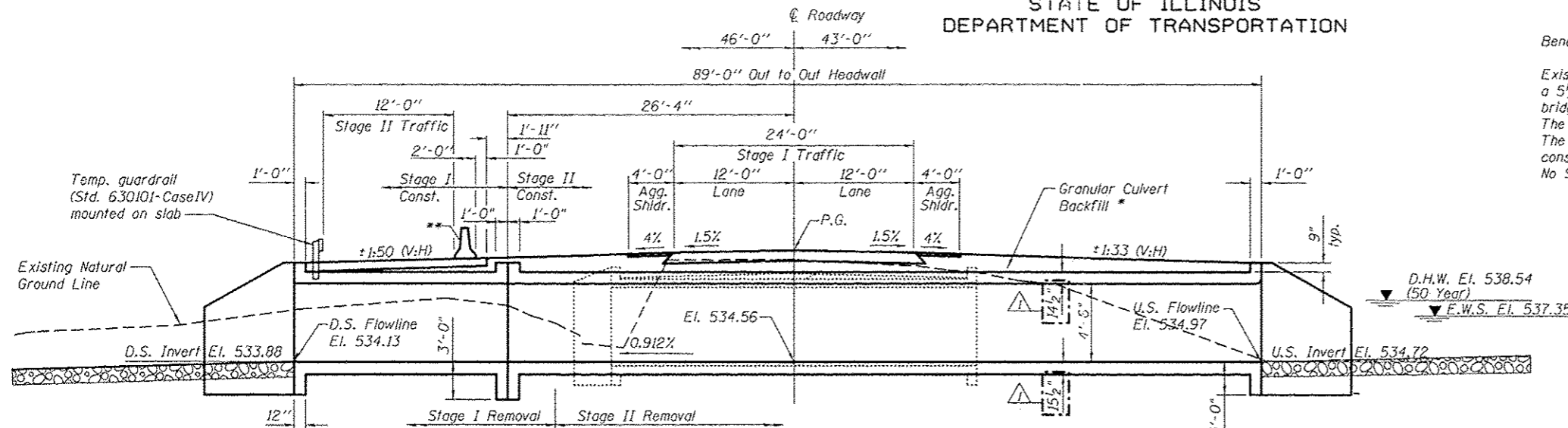
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113B-4	HANCOCK	57	2
CONTRACT NO. T2B62				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FOR INDEX OF SHEETS, SEE SHEET NO. 2

Bench Mark: Chiseled "Square" in west end of the north headwall 17.6' Lt. STA 152+42.3 Elev=540.97

Existing Structure: S.N. 034-0050 was built in 1928 as SBI 95, Section 113-B. In 1991 a 5 1/2" concrete wearing surface was added. The structure is a single span concrete slab bridge. The substructure is composed of the original closed abutments on spread footings. The back-to-back dimension measures 20'-0" while the out-to-out deck width is 36'-2". The structure is to be replaced with a 2-cell box culvert on a 15 degree skew. Stage construction with on-site run around will be utilized. No Salvage



LVC=200.00'  
**PROFILE GRADE**  
(along C roadway)

**HIGHWAY CLASSIFICATION**  
F.A.P. ROUTE 685 - IL 9 & 96  
Functional Class: Minor Arterial (Non-Urban)  
ADT: 2,200 (2012); 2,650 (2032)  
ADTT: 8%  
DHV: 330 (2012); 398 (2032)  
Design Speed: 60 m.p.h.  
Posted Speed: 55 m.p.h.

**DESIGN SPECIFICATIONS**

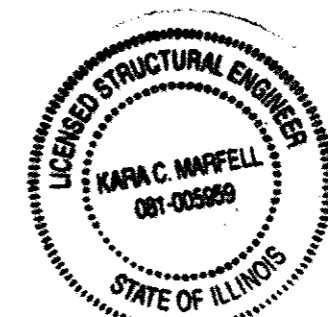
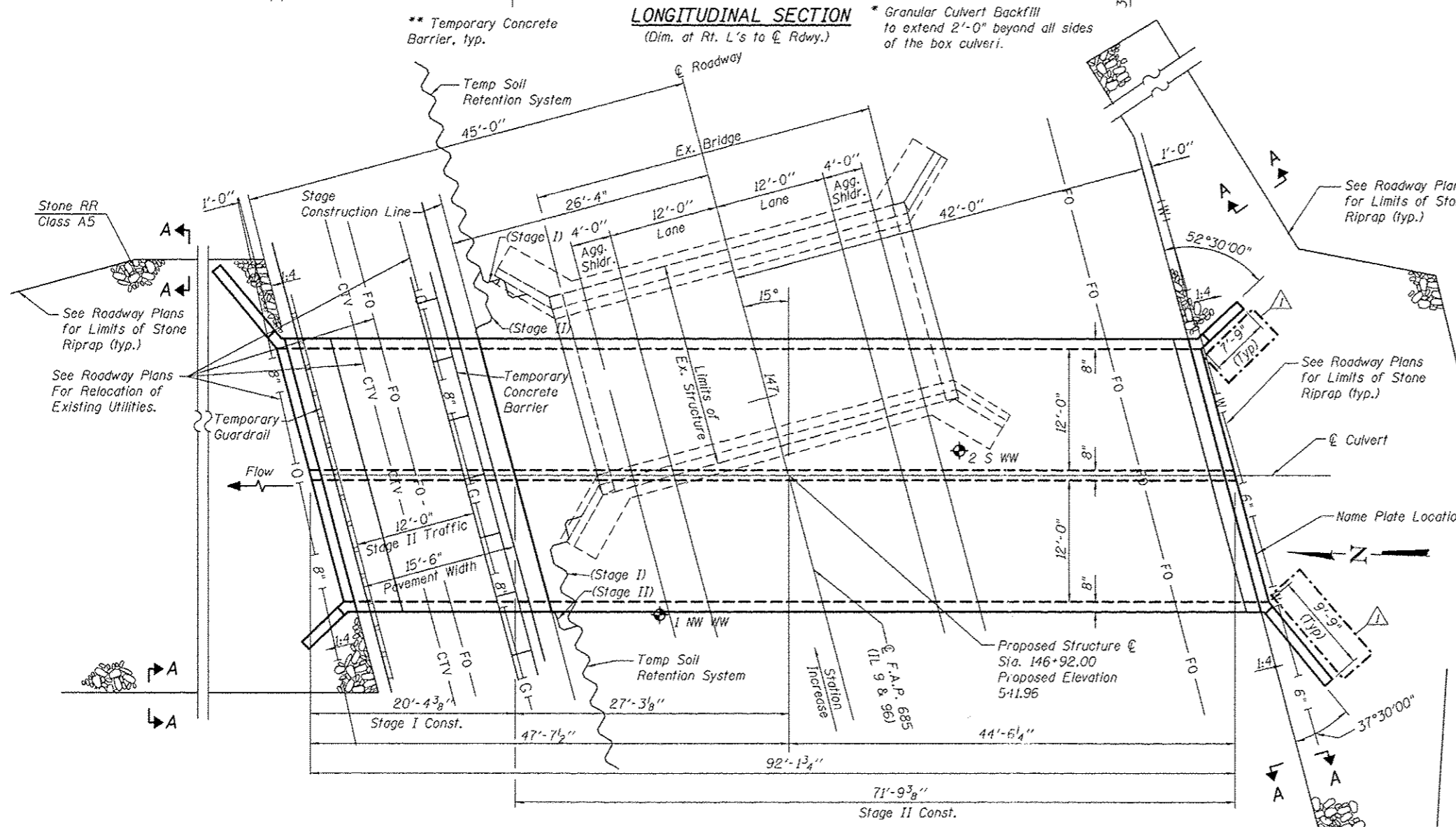
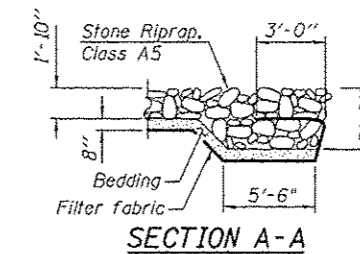
2012 AASHTO LRFD  
Bridge Design Specifications

**LOADING HL-93**

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

**DESIGN STRESSES**

**FIELD UNITS**  
f<sub>c</sub> = 3,500 psi  
f<sub>y</sub> = 60,000 psi (reinforcement)



**APPROVED**  
For Structural Adequacy Only  
*Kara C. Maffell*  
Engineer of Bridges & Structures

**GENERAL PLAN**  
IL 9 & 96 OVER DRAINAGE DITCH  
F.A.P. ROUTE 685 SECT. 113 (B-4)  
HANCOCK COUNTY  
STATION 146+92.00  
STRUCTURE NO. 034-2527

SIGN: *Kara C. Maffell*  
DATE: 2/25/13  
LICENSE EXP: 11-30-2014  
DAVID MASON & ASSOC, INC.



USER NAME = #USER#	DESIGNED BLM	REVISED 2/21/2013 TJR
PLOT SCALE = #SCALE#	DRAWN TJR	REVISED
PLOT DATE = #DATE#	CHECKED JEK	REVISED
	DATE 02-04-2013	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

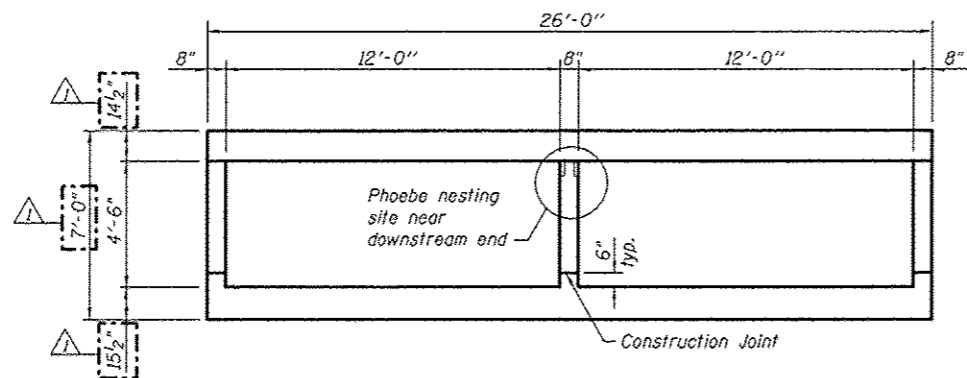
SCALE: NTS  
SHEET 1 OF 9 SHEETS  
STA. 146+92.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113 (B-4)	HANCOCK	62	37
				CONTRACT NO. 72B62
(ILLINOIS) FED. AID PROJECT				

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**GENERAL NOTE:**

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.



**SECTION THRU BARREL**

**INDEX OF SHEETS**

- Sheet 1 - General Plan
- Sheet 2 - General Notes, Section, and Total Bill of Materials
- Sheet 3 - Construction Staging Details
- Sheet 4 - Culvert Details
- Sheet 5 - Culvert Details and Bill of Materials
- Sheet 6 - Bar Splicer Assembly and Mechanical Splicer Details
- Sheet 7 - Temporary Concrete Barrier for Stage Construction
- Sheet 8 - Temporary Soil Retention System Details
- Sheet 9 - Soil Borings

**TOTAL BILL OF MATERIALS**

Item	Unit	Total
Granular Culvert Backfill	Cu. Yd.	207
Stone RipRap, Class A5	Sq. Yd.	486
Filter Fabric	Sq. Yd.	486
Removal of Existing Structures	Each	1
Reinforcement Bars	Pound	46,430
Bar Splicers	Each	128
Concrete Box Culverts	Cu. Yd.	272
Temporary Soil Retention System	Sq. Ft.	253
Name Plates	Each	1

**DESIGN SCOUR ELEVATION TABLE**

Design Scour Elevation (ft.)	D.S. Invert	U.S. Invert
	530.88	531.72

**WATERWAY INFORMATION**

Flood		Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.		Head - Ft.		Headwater El.	
				Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design		10	390	60	70	537.77	1.4	1.4	539.19	539.21	
Base		50	650	70	90	538.54	4.4	1.9	542.93	540.41	
Max. Calc.		100	770	80	90	538.79	4.5	1.7	543.28	540.50	
		500	1,080	80	108	540.42	3.7	1.5	544.13	541.87	

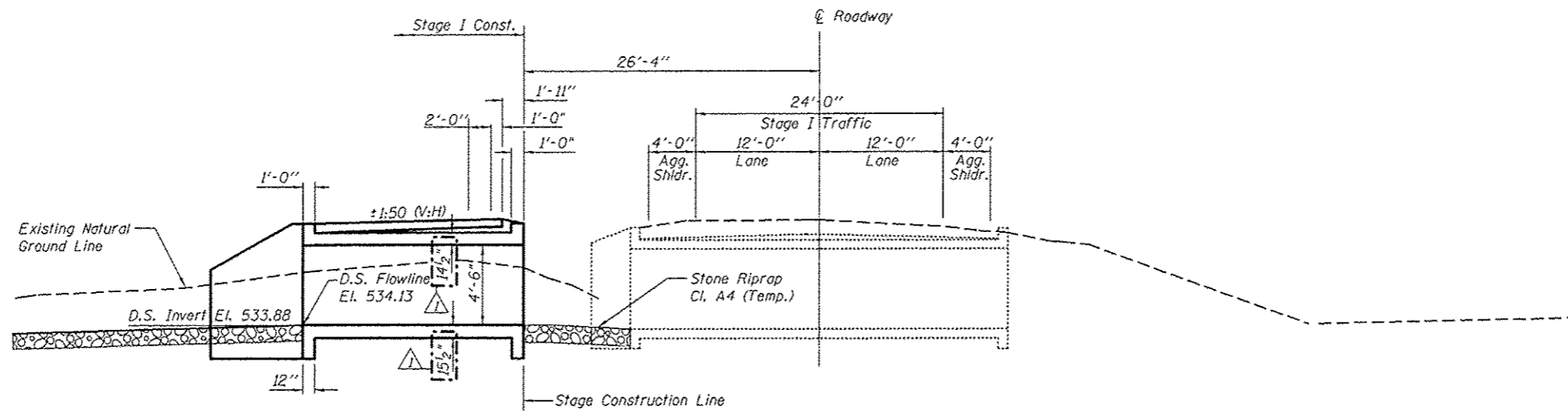
Drainage Area = 0.45 mi<sup>2</sup>      Exist. Low Grade Elev. 541.10 ft. @ Sta. 147+05.05  
Prop. Low Grade Elev. 541.10 ft. @ Sta. 147+05.05

**NAME PLATE**

STATION 146+92.00  
BUILT 20\_\_ BY  
STATE OF ILLINOIS  
F.A.P. ROUTE 685  
SECTION 113 (B-4)  
LOADING HL93  
STR. NO. 034-2527

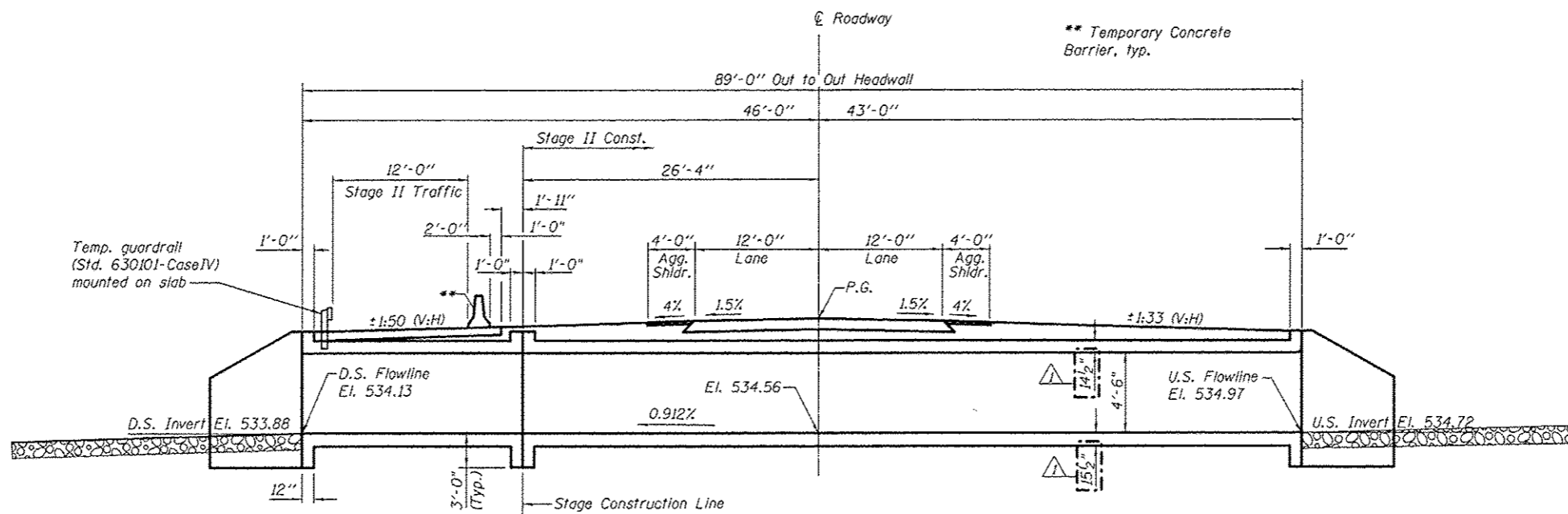
See Std. 515001

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**STAGE I TRAFFIC AND CONSTRUCTION**

(Looking Eastbound)  
Dimensions are at right angles to CL roadway



**STAGE II TRAFFIC AND CONSTRUCTION**

(Looking Eastbound)  
Dimensions are at right angles to CL roadway



USER NAME: \*USER\*  
PLOT SCALE: \*SCALE\*  
PLOT DATE: \*DATE\*

DESIGNED: BLM  
DRAWN: TJR  
CHECKED: JEK  
DATE: 02-04-2013

REVISED: 2/21/2013 TJR  
REVISED  
REVISED  
REVISED

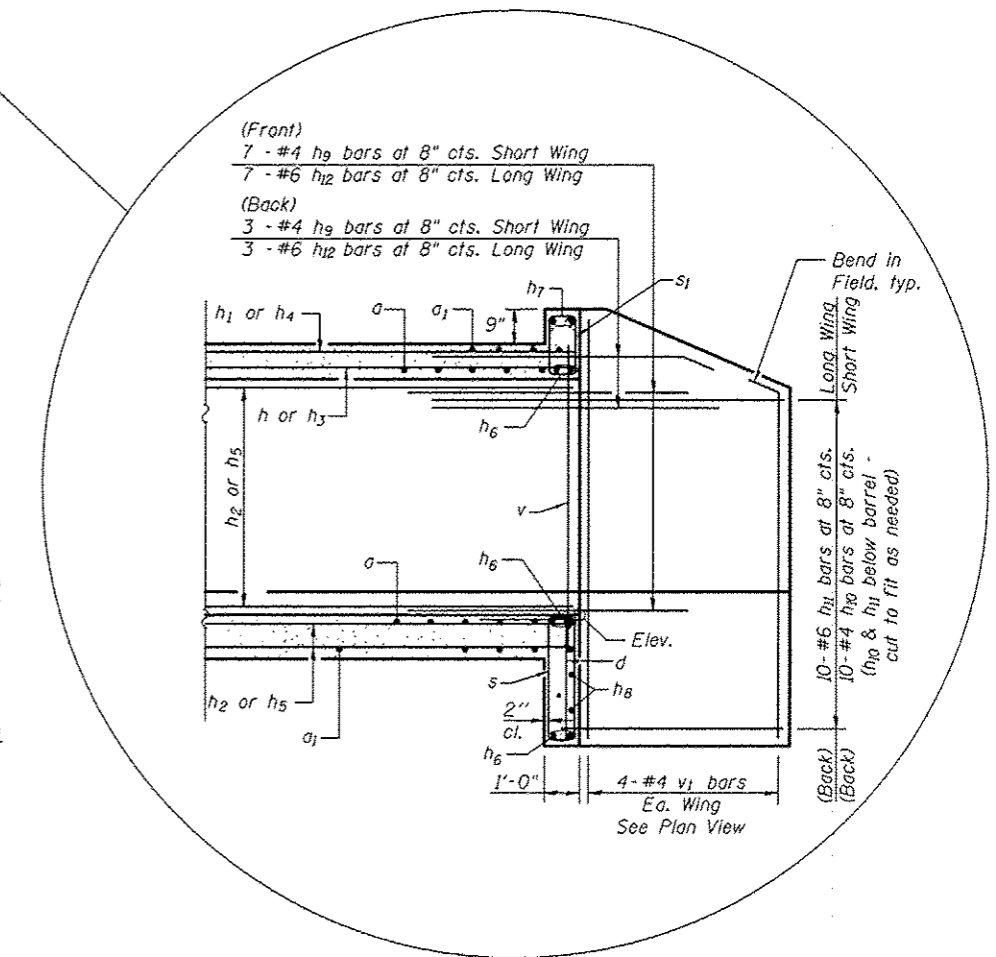
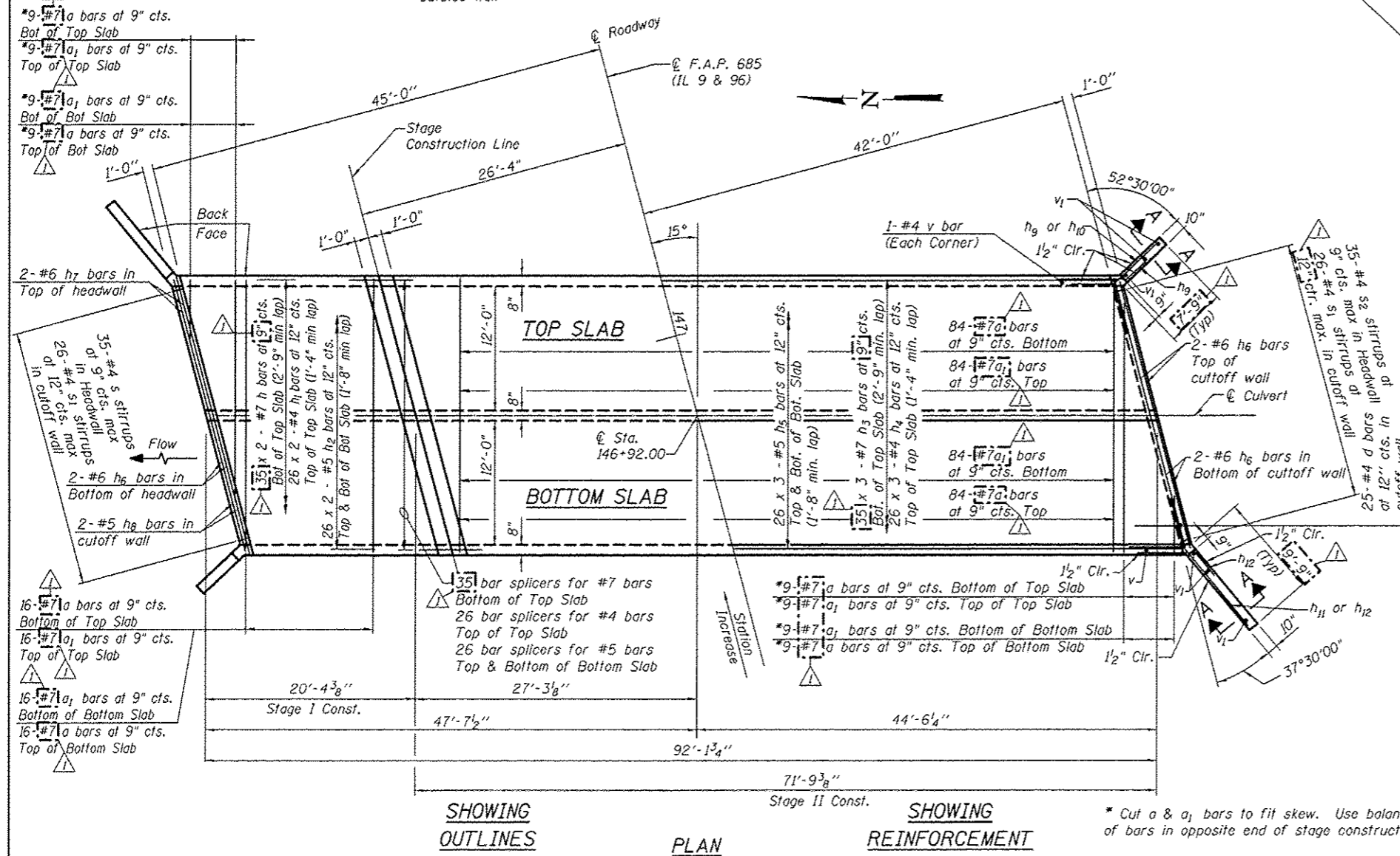
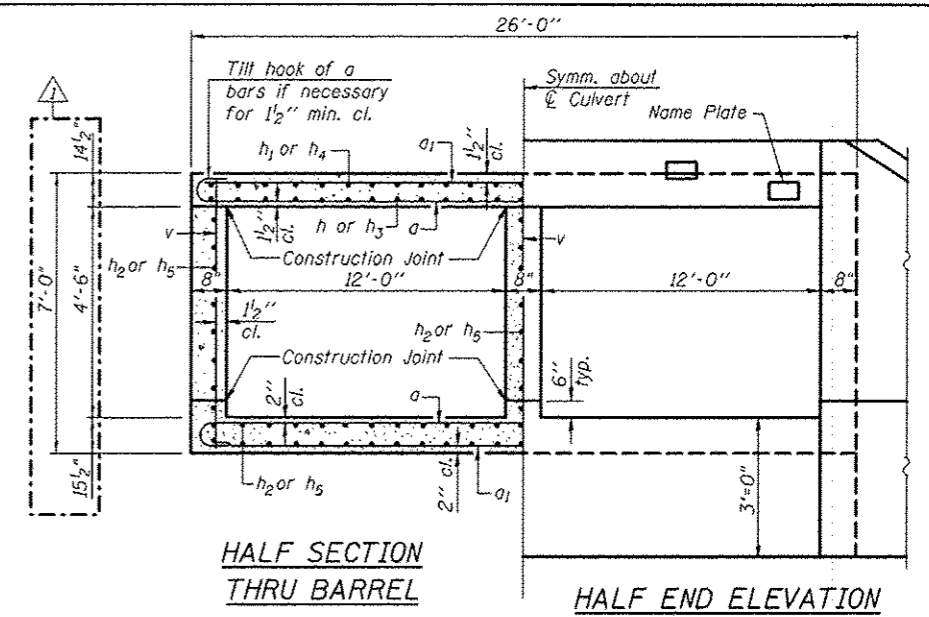
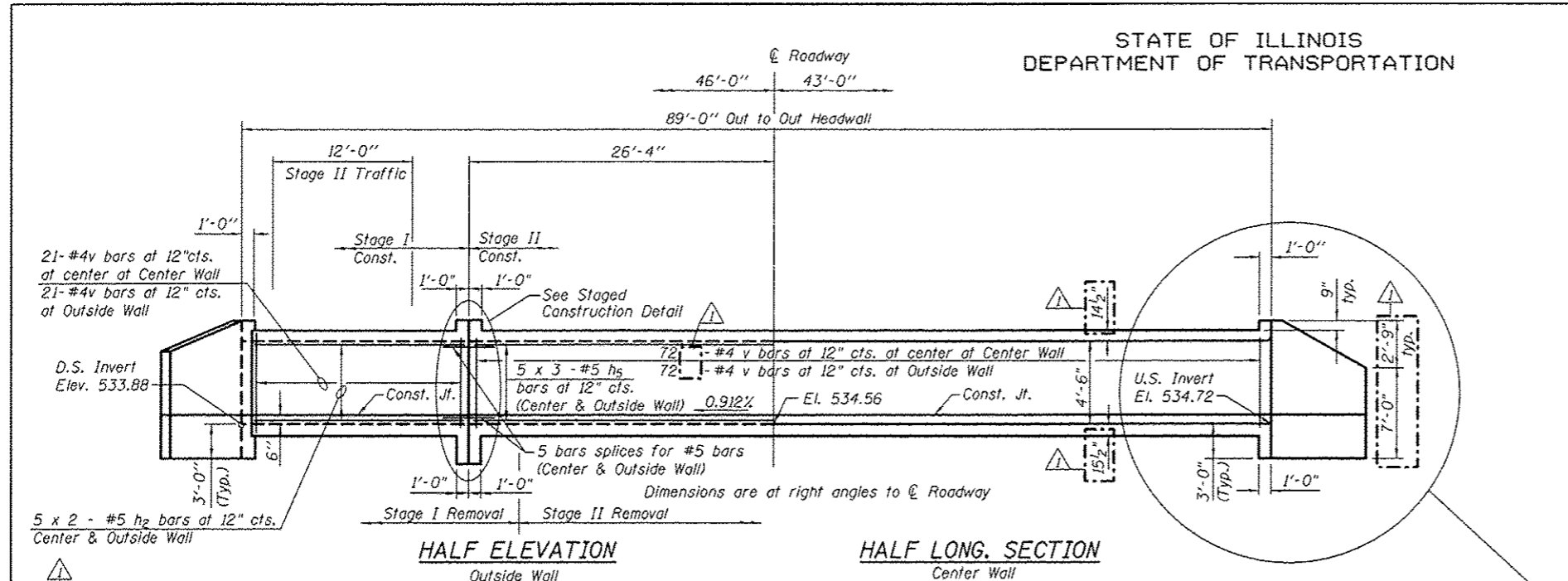
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CONSTRUCTION STAGING DETAILS  
STRUCTURE NO. 034-2527

SCALE: NTS SHEET 3 OF 9 SHEETS STA. 146+92.00

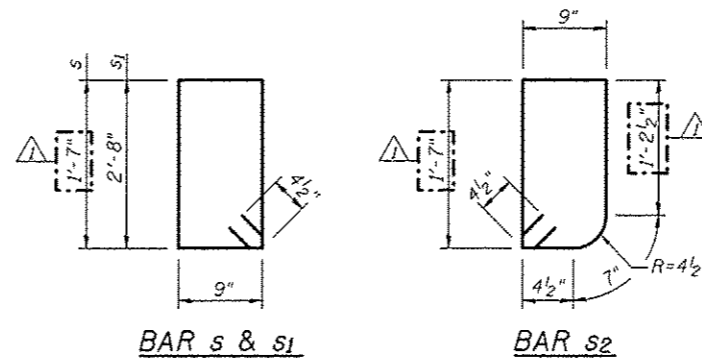
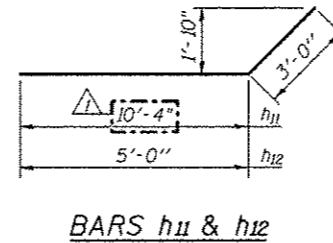
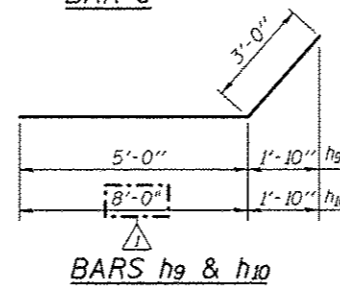
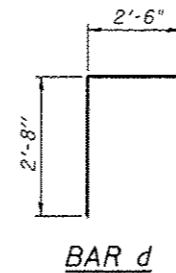
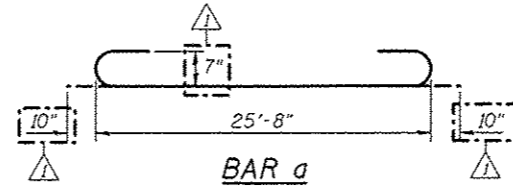
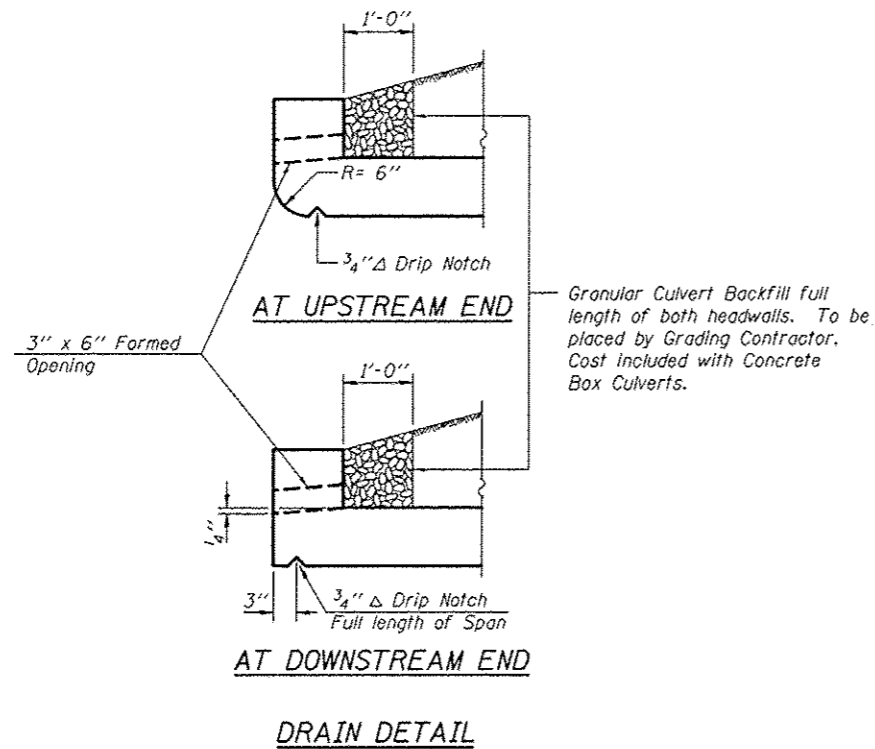
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113 (B-4)	HANCOCK	62	39
CONTRACT NO. 72B62				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



<b>THE VOLKERT/DMA</b> <small>Joint Venture</small>	USER NAME • USER •	DESIGNED BLM	REVISED $\Delta$ 2/21/2013 TJR	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CULVERT DETAILS STRUCTURE NO. 034-2527		F.A.P. RTE. 685	SECTION 113 (B-4)	COUNTY HANCOCK	TOTAL SHEETS 62	SHEET NO. 40	
	PLOT SCALE • SCALES •	DRAWN TJR	REVISED		SCALE: NTS	SHEET 4 OF 9 SHEETS	STA. 146+92.00	CONTRACT NO. 72B62		ILLINOIS FED. AID PROJECT		
	PLOT DATE • DATE •	CHECKED JEK	REVISED									
		DATE 02-04-2013	REVISED									

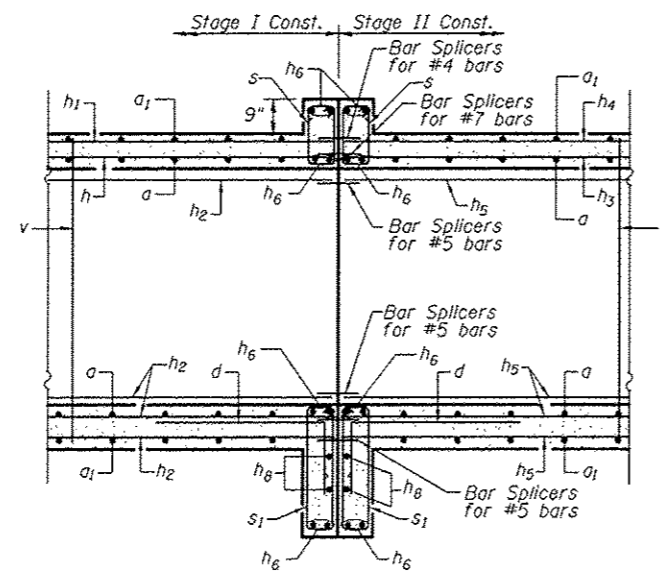
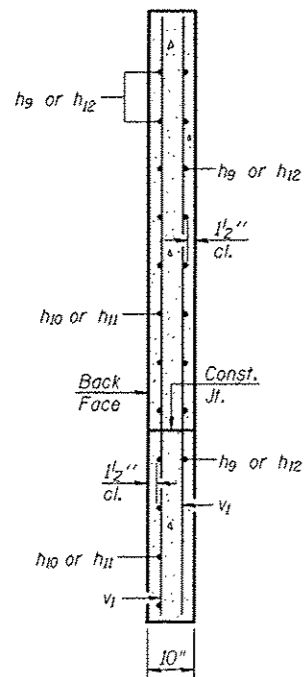
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**BILL OF MATERIALS**

Bar	No.	Size	Length	Shape
a	236	#7	27'-4"	U
a1	236	#7	25'-8"	U
d	100	#4	5'-2"	L
h	70	#7	11'-7"	—
h1	52	#4	10'-11"	—
h2	134	#5	11'-1"	—
h3	105	#7	26'-0"	—
h4	78	#4	25'-0"	—
h5	201	#5	25'-3"	—
h6	24	#6	26'-2"	—
h7	8	#6	25'-10"	—
h8	8	#5	26'-2"	—
h9	20	#4	8'-0"	—
h10	20	#4	11'-0"	—
h11	20	#6	13'-4"	—
h12	20	#6	8'-0"	—
v	283	#4	6'-8"	—
v1	16	#4	9'-1"	—
s	105	#4	5'-5"	—
s1	104	#4	7'-7"	—
s2	35	#4	5'-3"	—
Reinforcement Bars			Pound	46,430
Concrete Box Culverts			Cu. Yd.	272

Notes:  
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.  
Bars indicated thus 12x4-#5 etc. indicates 12 lines of bars with 4 lengths per line.

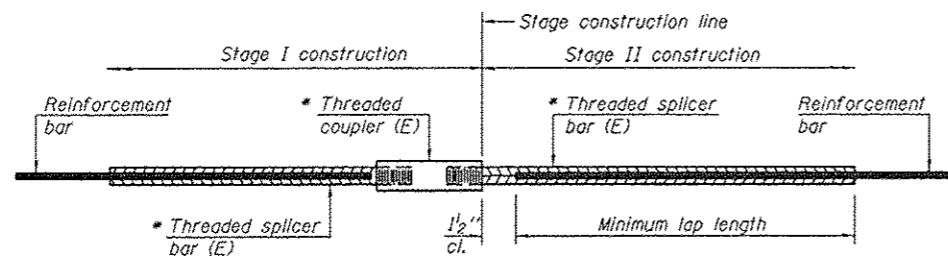


▲ SHEET ADDED 2-28-2013

	USER NAME * #USER*	DESIGNED BLM	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CULVERT DETAILS & BILL OF MATERIALS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	The Volkert/DMA John Volkert	PLOT SCALE * #SCALE*	DRAWN TJR		REVISED	STRUCTURE NO. 034-2527	685	113 (B-4)	HANCOCK	52	40A
	PLOT DATE * #DATE*	DATE 02-04-2013	REVISED		SCALE: NTS	SHEET 5 OF 9 SHEETS	STA. 146+92.00	CONTRACT NO. 72B52			
											[ILLINOIS] FED. AID PROJECT



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**STANDARD BAR SPLICER ASSEMBLY**

Bar size to be spliced	Minimum Lap Lengths					
	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"	6'-5"	6'-10"	7'-9"	8'-7"	9'-8"

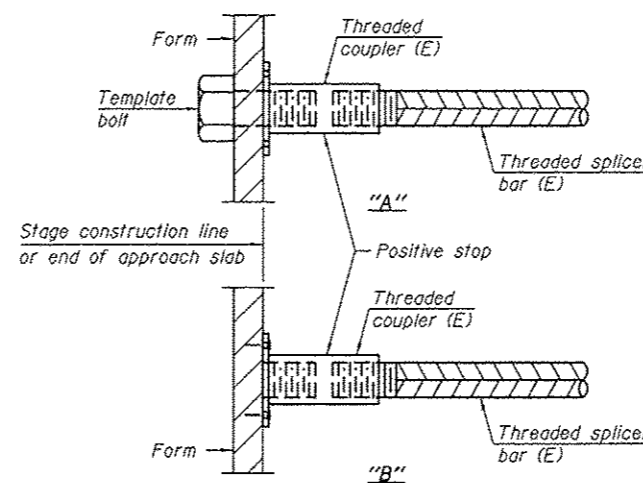
- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. lap length + 1/2" + thread length

\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

**BILL OF MATERIALS**

Location	Bar size	No. assemblies required	Table for minimum lap length
Top Slab	#4	26	1
Bottom Slab	#5	52	1
Top Slab	#7	35	1
Walls	#5	15	2
<b>Total Bar Splicers</b>		<b>128</b>	



**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.

"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.

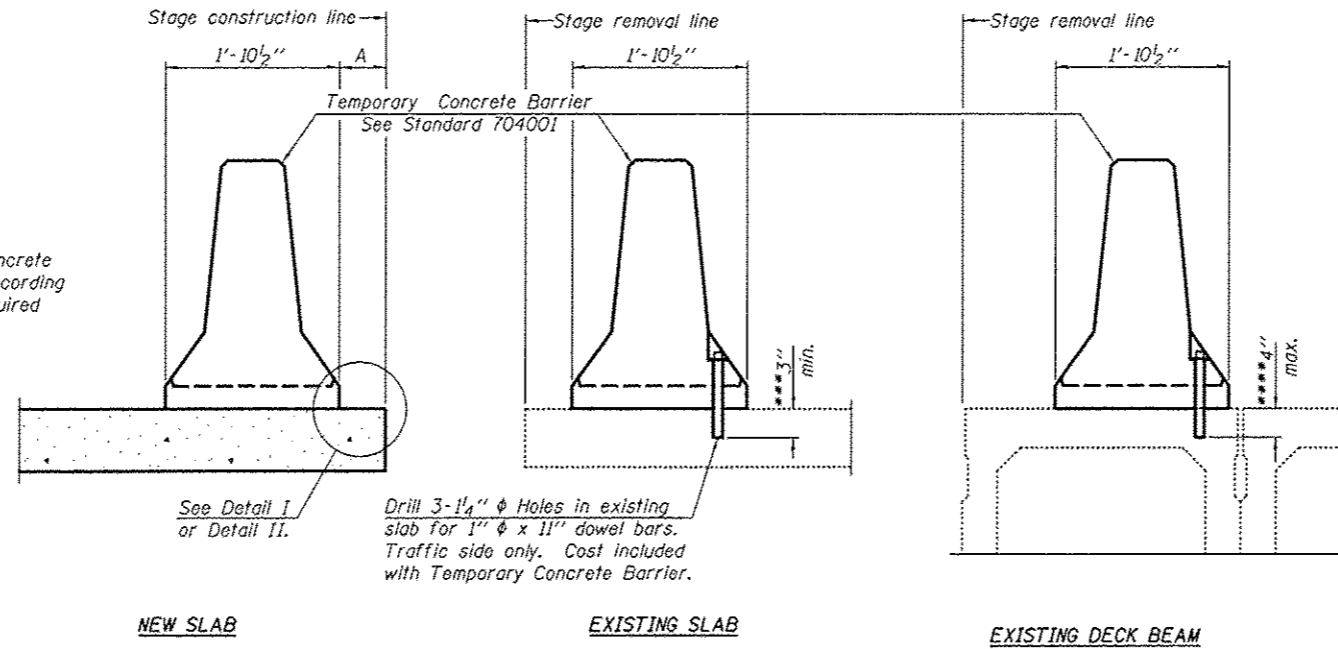
**NOTES**

1. Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
2. All reinforcement shall be lapped and tied to the splicer bars.
3. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
4. See approved list of bar splicer assemblies and mechanical splicers for alternatives.

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DEPARTMENT OF TRANSPORTATION

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



SECTIONS THRU SLAB OR DECK BEAM

NOTES

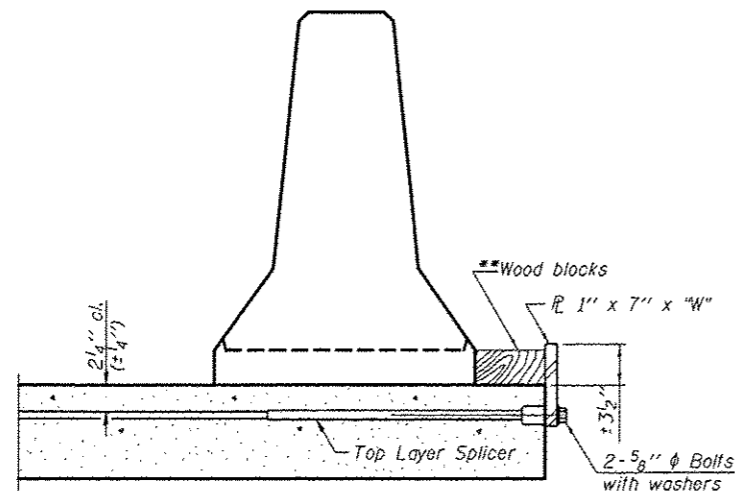
Detail I - With Bar Splicer or Couplers:  
Connect one (1) 1" x 7" x "W" steel  $\bar{L}$  to the top layer of couplers with 2- $\frac{5}{8}$ "  $\phi$  bolts screwed to coupler at approximate  $\bar{C}$  of each barrier panel.

Detail II - With Extended Reinforcement Bars:  
Connect one (1) 1" x 7" x "W" steel  $\bar{L}$  to the concrete slab or concrete wearing surface with 2- $\frac{5}{8}$ "  $\phi$  Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate  $\bar{C}$  of each barrier panel.

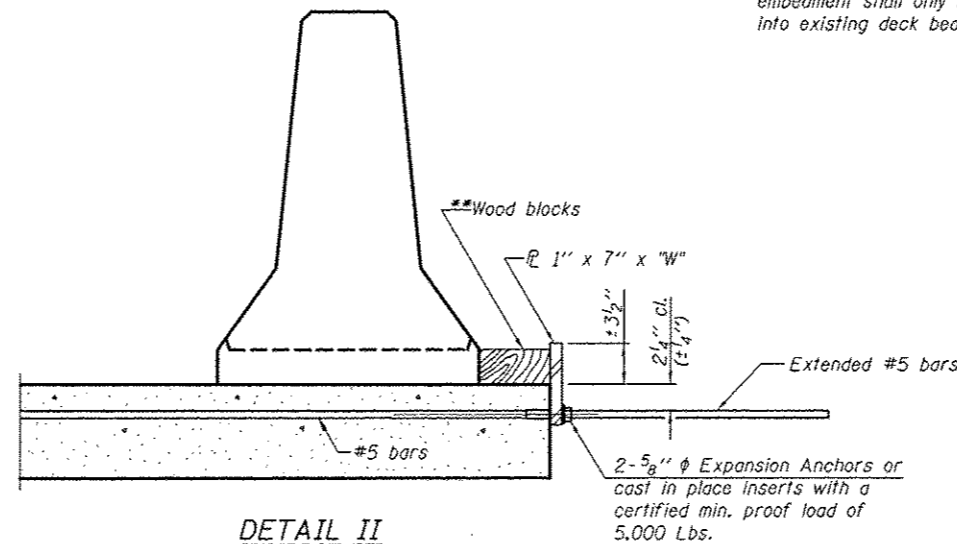
Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

\*\*\* Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

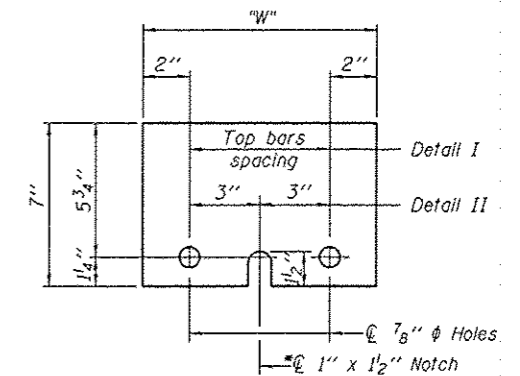
\*\*\*\* If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER  $\bar{L}$  1" x 7" x "W"

\* Required only with Detail II

\*\* Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"

R-27

7-1-10

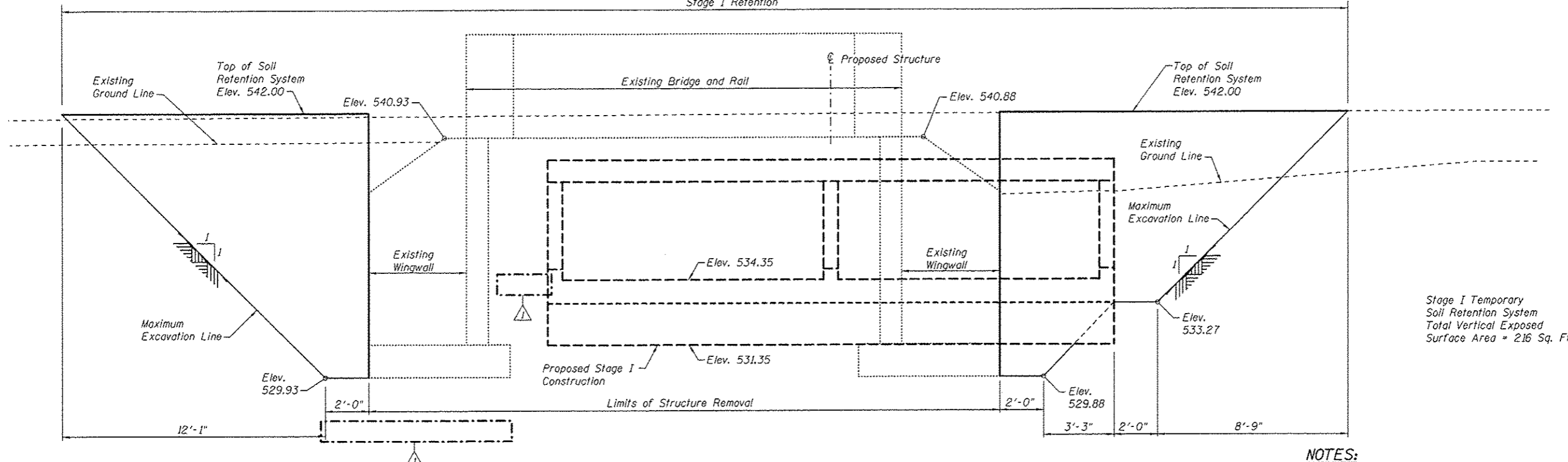
▲ SHEET ADDED 2-28-2013

<b>The VOLKERT/DMA</b> <small>Joint Venture</small>	USER NAME * #USER*	DESIGNED BLM	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION STRUCTURE NO. 034-2527	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = #SCALE*	DRAWN TJR	REVISED			685	113 (B-4)	HANCOCK	62	140C
	PLOT DATE = #DATE*	CHECKED JEK	REVISED			CONTRACT NO. 72862				
DATE 02-04-2013				SCALE: NTS		SHEET 7 OF 9 SHEETS		STA. 146+92.00		[ILLINOIS] FED. AID PROJECT



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

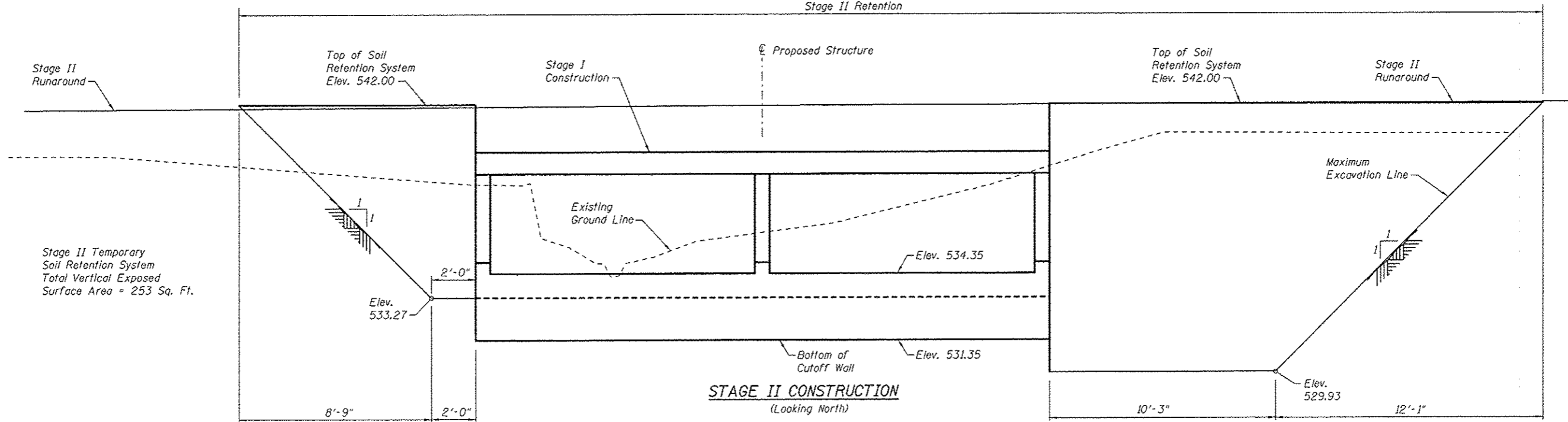
Stage I Retention



**STAGE I CONSTRUCTION**  
(Looking South)

NOTES:

Stage II Retention



**STAGE II CONSTRUCTION**  
(Looking North)

1. A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

⚠ SHEET ADDED 2-28-2013

	USER NAME * #USER*	DESIGNED BLM	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY SOIL RETENTION SYSTEM DETAILS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE * #DATE*	CHECKED JEK	REVISED		STRUCTURE NO. 034-2527			CONTRACT NO. 72862				
	DATE 02-04-2013	REVISED	SCALE: NTS			SHEET 8 OF 9 SHEETS	STA. 146+92.00	ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



Illinois Department of Transportation  
Division of Highways  
District 6

SOIL BORING LOG

Page 1 of 1

Date 12/29/10

ROUTE IL9/96 DESCRIPTION culvert over unnamed ditch LOGGED BY M. Tappan  
SECTION 113B-4 LOCATION NW 1/4, SEC. 7, TWP. 7N, RNG. 7W, 4 PM  
COUNTY Hancock DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO.	DEPT	BL	UC	MO	Surface Water Elev.	DEPT	BL	UC	MO
Station	H	W	S	I	Stream Bed Elev.	H	W	S	I
BORING NO.	T	S	Qu	T	Groundwater Elev.:	T	S	Qu	T
Station	H	W	Qu	T	First Encounter	H	S	Qu	T
Offset	(ft)	/6"	(tsf)	(%)	Upon Completion	(ft)	/6"	(tsf)	(%)
Ground Surface Elev.	ft				After	Hrs.			
034-2527 146+92					536.5				
1 NW VVV 146+82					531.7				
16.0R LT					524.7				
540.7					Plugged				
Brown and Dk Gray Moist SILTY CLAY w/ Limestone Aggregate and Sand Seams (Fill)	1				Gravel				
	2	0.7	17		Boring Complete				
	2	S-12							
V. Dark Gray Moist SILTY CLAY w/ Med Limestone Aggregate (Fill)	1								
	2	1.2	17						
	3	B							
535.20									
Brown Moist SANDY CLAY LOAM	1								
	2	1.2	14						
	3	S-9							
w/ Tan Moist Silty Shale Colluvium - Disturbed	1								
FREE WATER	2	1.0	15						
530.70	4	S-10							
Yellowish Brown Dry SILTY SHALE Colluvium - Disturbed	8								
	31		8						
	47								
527.70									
Tan Poorly Indurated Argillaceous LIMESTONE	35								
V. Weathered Colluvium	72								
	28 1/2"								
624.70									
Gray Med Dirty LIMESTONE Gravel	1								
	5								
	15								
	4								
Brown Med Sandy Gravel w/ 1" pieces of Angular Limestone	12								
520.70	5								

File Name: S:\SOILS\SOILNT FILES\HANCOC004-2527.GPJ Data Type: Data DISTEMPRT.GDT Date Printed: 1/22/12  
Location: 405 37.380N Longitude 91 D 14.701W Datum: NAD83 Job Number: 72862

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)



Illinois Department of Transportation  
Division of Highways  
District 6

SOIL BORING LOG

Page 1 of 1

Date 12/29/10

ROUTE IL9/96 DESCRIPTION culvert over unnamed ditch LOGGED BY M. Tappan  
SECTION 113B-4 LOCATION NW 1/4, SEC. 7, TWP. 7N, RNG. 7W, 4 PM  
COUNTY Hancock DRILLING METHOD HSA HAMMER TYPE 140# Auto

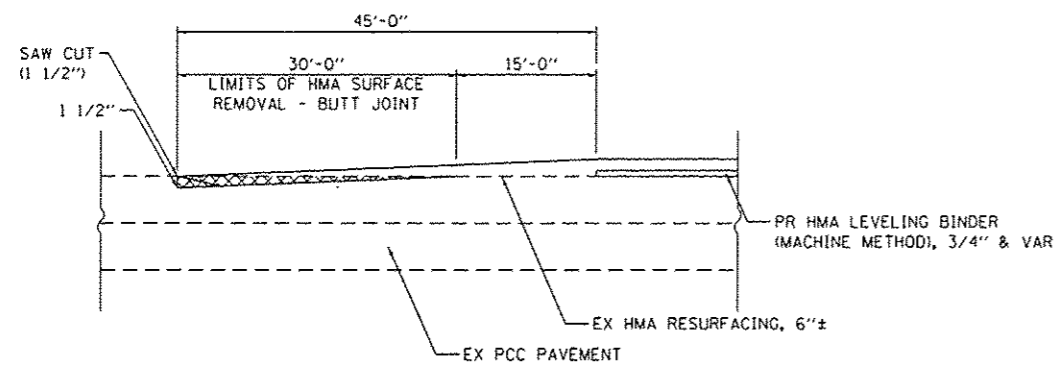
STRUCT. NO.	DEPT	BL	UC	MO	Surface Water Elev.	DEPT	BL	UC	MO
Station	H	W	S	I	Stream Bed Elev.	H	W	S	I
BORING NO.	T	S	Qu	T	Groundwater Elev.:	T	S	Qu	T
Station	H	W	Qu	T	First Encounter	H	S	Qu	T
Offset	(ft)	/6"	(tsf)	(%)	Upon Completion	(ft)	/6"	(tsf)	(%)
Ground Surface Elev.	ft				After	Hrs.			
034-2527 146+92					536.5				
2 S WW 146+90					529.6				
17.0R RT					525.1				
541.1					Plugged				
V. Dk Gray Moist SILTY CLAY w/ Coarse Angular Limestone Gravel (Fill)	1				Gravel				
	2	1.3	22		Boring Complete				
	4	B							
Brown and V. Dk Gray	1								
	2	0.8	18						
	2	B							
535.60									
Brown and Gray Dirty Medium LIMESTONE Gravel	2								
	8								
	9								
Brown Dirty Med SAND w/ Coarse Angular Cherty Limestone Gravel	4								
	9								
	18								
FREE WATER	9								
	31								
	15								
521.10									
Brown Med Sandy Gravel w/ Coarse Angular Limestone Gravel	3								
	21								
	25								
	3								
	15								
	17								
	2								
	7								
521.10	10								

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Location: 405 37.380N Longitude 91 D 14.690W Datum: NAD83 Job Number: 72862

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)

△ SHEET ADDED 2-28-2013

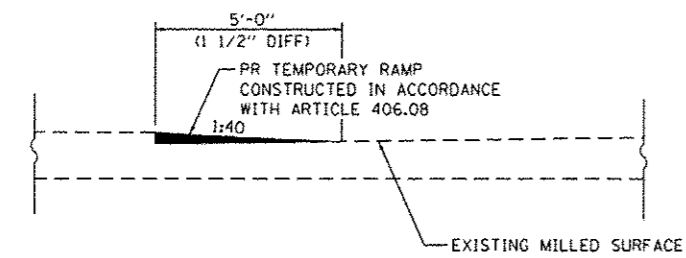
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	PLOT DATE = #DATE#	CHECKED JEK	REVISED			CONTRACT NO. 72B62				
	DATE 02-04-2013	DATE	REVISED	SCALE: NTS	SHEET 9 OF 9 SHEETS	STA. 146+92.00	ILLINOIS FED. AID PROJECT			



**BUTT JOINT DETAIL**

STA 140+00.00 TO STA 140+30.00  
STA 153+70.00 TO STA 154+00.00

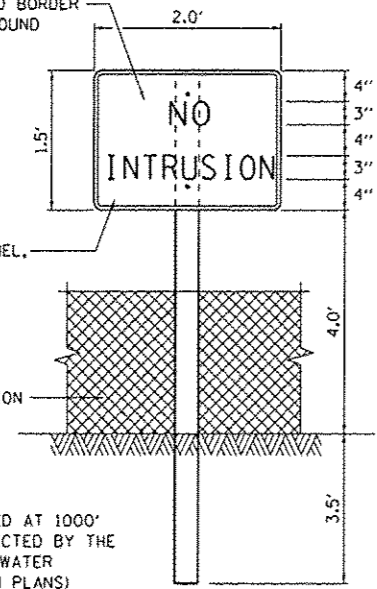
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**TEMPORARY RAMP DETAIL**

WHITE CAPS AND BORDER  
ON RED BACKGROUND

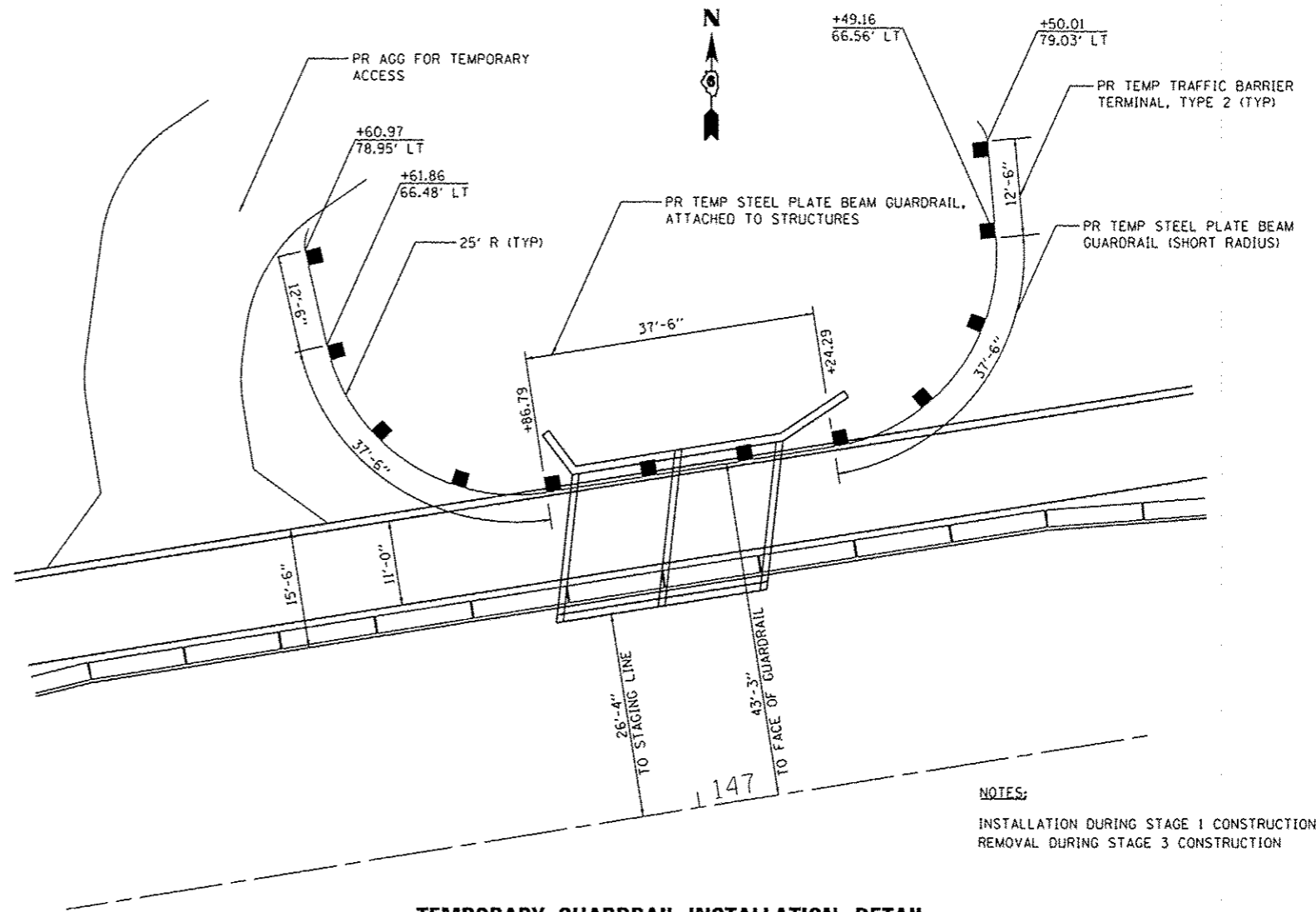
SCALE 1"=5'



SIGNS SHALL BE PLACED AT 1000' INTERVALS OR AS DIRECTED BY THE ENGINEER (SEE STORM WATER POLLUTION PREVENTION PLANS)

**TEMPORARY SIGN DURING CONSTRUCTION  
PROTECTED AREA SIGNING (PRAIRIE GRASS AREAS)**

LOCATIONS AS SHOWN ON THE STORM WATER  
POLLUTION PREVENTION PLANS



**TEMPORARY GUARDRAIL INSTALLATION DETAIL**

STA 146+60.97 TO STA 147+50.01  
SCALE 1"=10'

**NOTES:**

INSTALLATION DURING STAGE 1 CONSTRUCTION  
REMOVAL DURING STAGE 3 CONSTRUCTION

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 MODEL = 400001  
 PLOT DRIVER = PLOTDRY6\$



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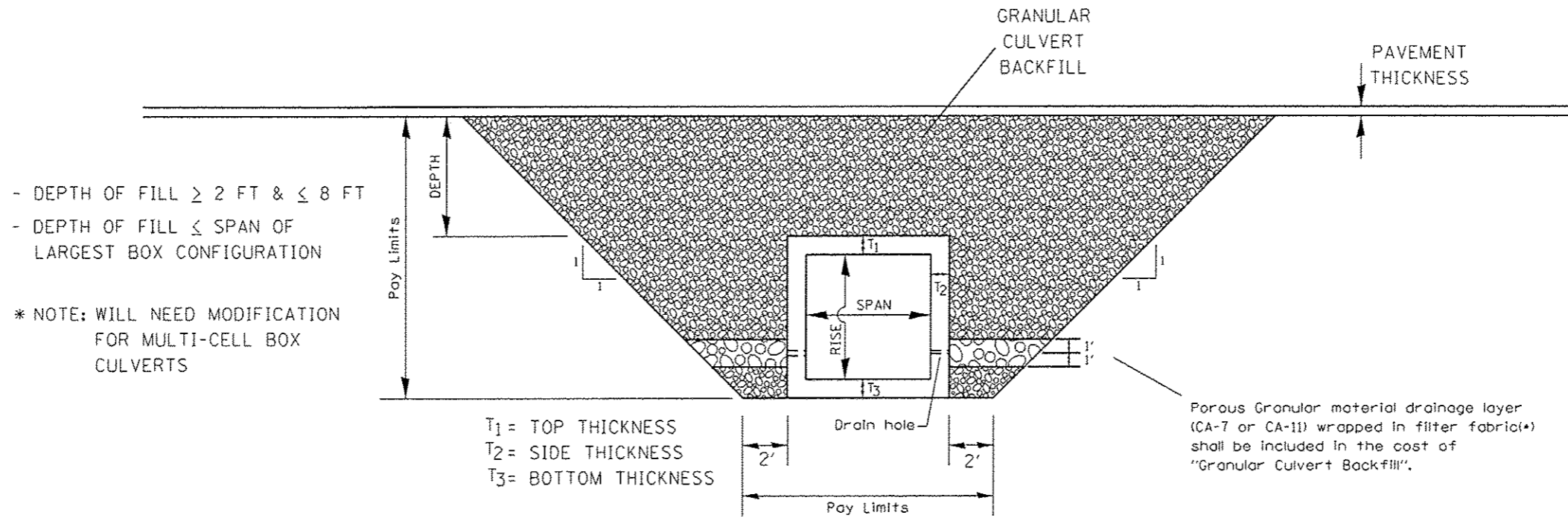
SHEET

REVISED	2-28-2013
REVISED	
REVISED	
REVISED	

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

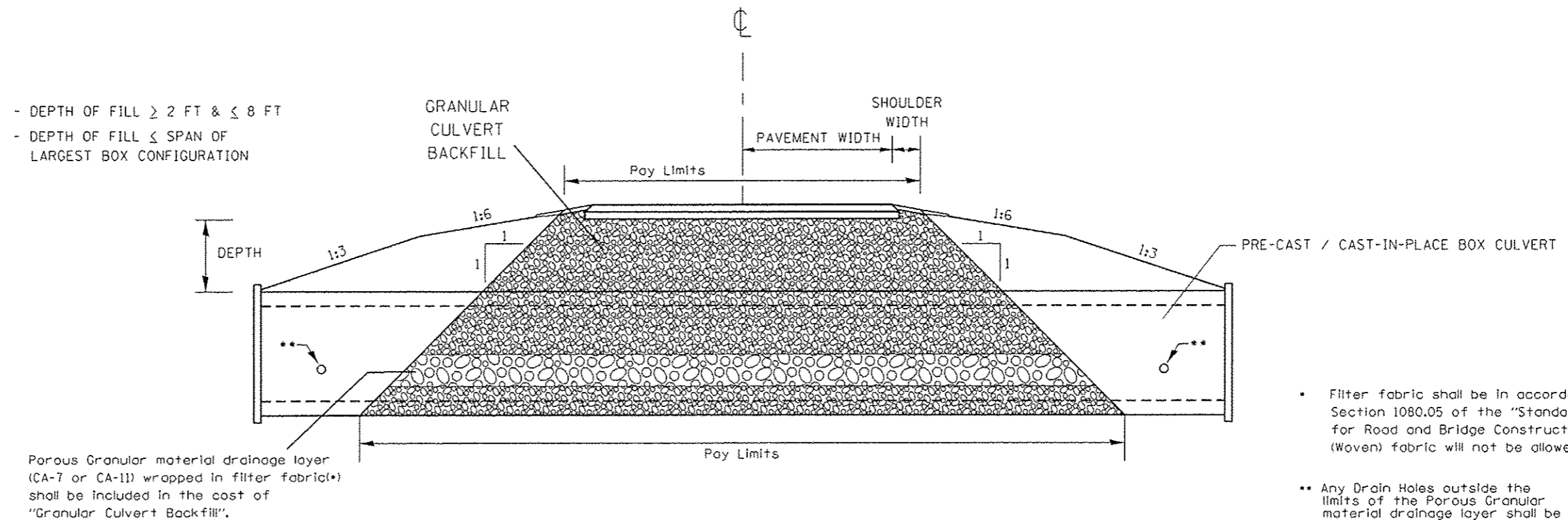
MISCELLANEOUS DETAILS			
SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	1138-4	HANCOCK	57	41
CONTRACT NO. 72B62				
ILLINOIS FED. AID PROJECT				



**PROFILE GRANULAR BACKFILL DETAIL**

- Filter fabric shall be in accordance with Section 1080.05 of the "Standard Specification for Road and Bridge Construction", except that (Woven) fabric will not be allowed.

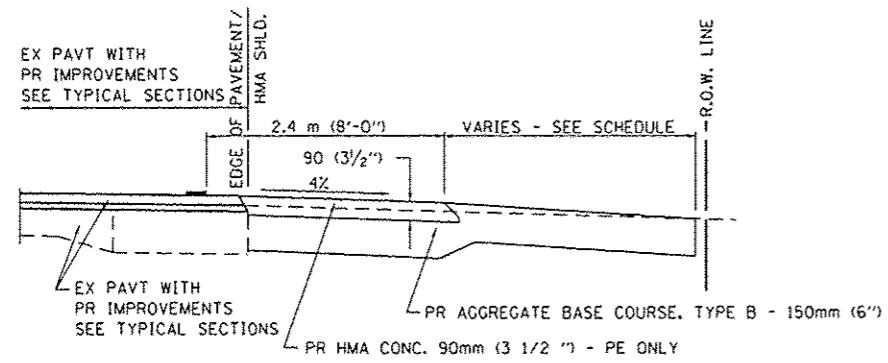


**CROSS SECTION GRANULAR BACKFILL DETAIL**

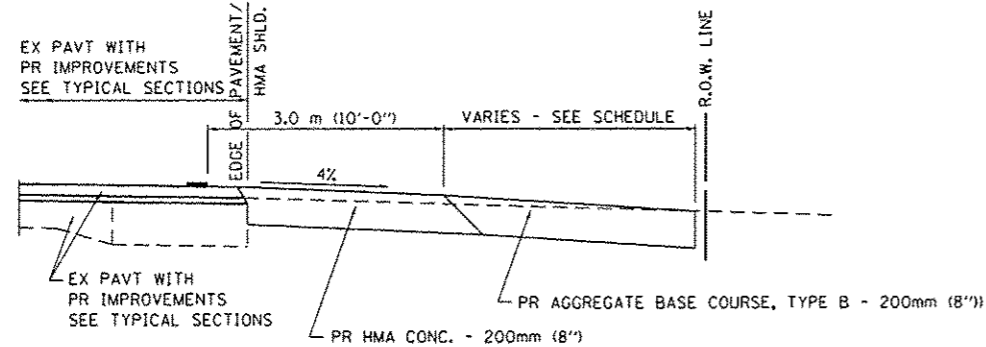
- Filter fabric shall be in accordance with Section 1080.05 of the "Standard Specification for Road and Bridge Construction", except that (Woven) fabric will not be allowed.

- Any Drain Holes outside the limits of the Porous Granular material drainage layer shall be backfilled in accordance with Section 502.10 of the "Standard Specification for Road and Bridge Construction".

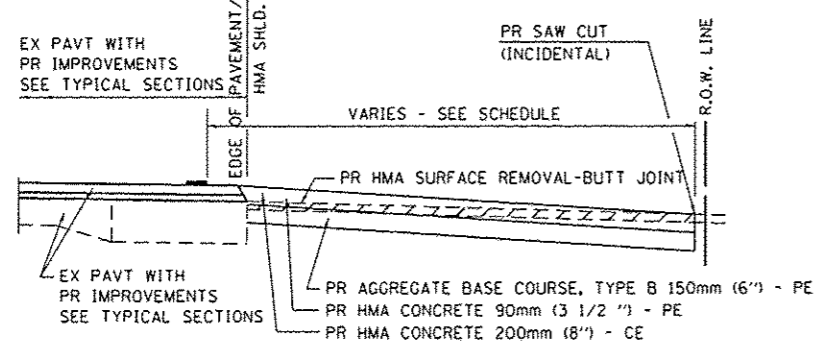
FILE NAME =	USER NAME = sparksg	DESIGNED - BKL	REVISIONS	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GRANULAR BACKFILL DETAIL TO BOTTOM OF BOX CULVERT		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ct:\pw\work\p\idat\sparksg\d0329885\067062-shit-details2.dgn	DRAWN - BKL	CHECKED -	REVISIONS		685	1138-4	HANCOCK	57	42		
Granular Backfill Details.dgn	PLOT SCALE = 40.0000' / 1"	DATE -	REVISIONS		SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.			CONTRACT NO. 72B62			
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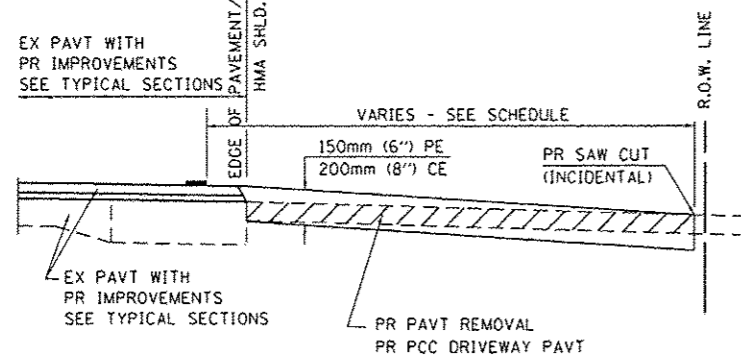
**SECTION A-A FOR EX EARTH/AGGREGATE FE & PE**



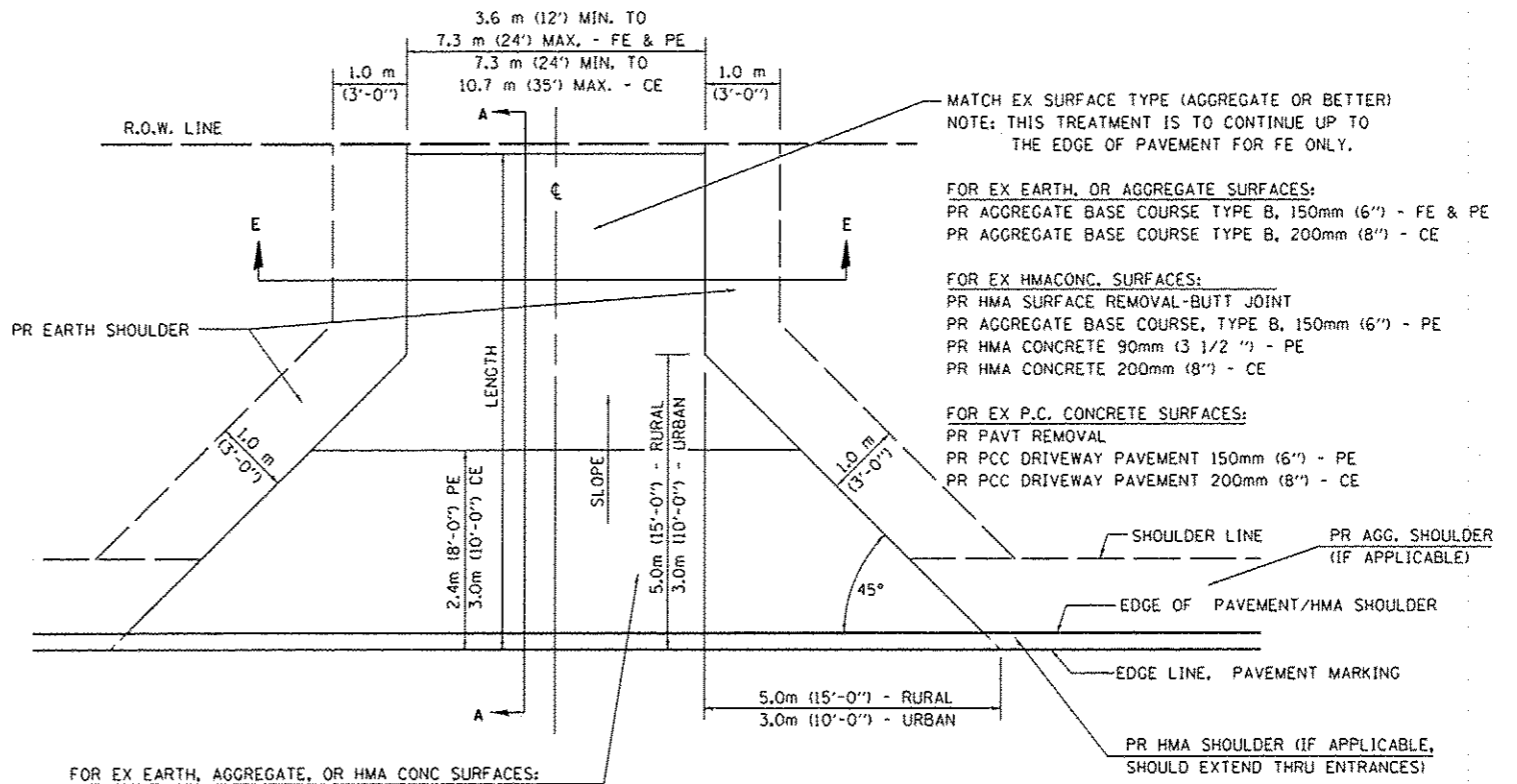
**SECTION A-A FOR EX EARTH/AGGREGATE CE**



**SECTION A-A FOR EX HMA PE & CE**



**SECTION A-A FOR EX P.C. CONC. PE & CE**



FOR EX EARTH, AGGREGATE, OR HMA CONC SURFACES:  
 PR HMA SURFACE REMOVAL-BUTT JOINT (IF APPLICABLE)  
 PR AGGREGATE BASE COURSE TYPE B 150mm (6") - FE  
 PR AGGREGATE BASE COURSE TYPE B, 150mm (6") &  
 PR HMA CONCRETE 90mm (3 1/2") - PE  
 PR HMA CONCRETE 200mm (8") - CE

FOR P.C. CONCRETE SURFACES:  
 PR PAVT REMOVAL  
 PR PCC DRIVEWAY PAVT 150mm (6") - PE  
 PR PCC DRIVEWAY PAVT 200mm (8") - CE

**GENERAL NOTES:**

THE RESIDENT ENGINEER WILL DETERMINE THE EXACT TYPE OF IMPROVEMENT TO BE COMPLETED FOR ALL ENTRANCES, SIDEROADS AND MAILBOX TURNOUTS ON THIS PROJECT.

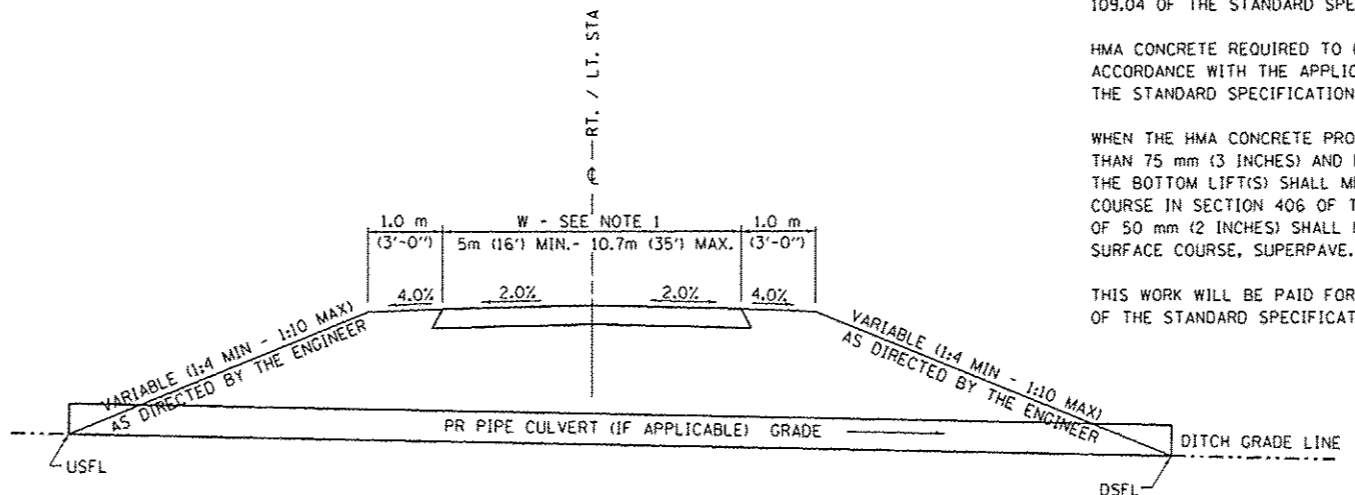
THE PLAN DETAILS AND SCHEDULES SHOULD BE USED AS A GUIDE FOR THE ENGINEER TO IMPLEMENT THE FINAL DESIGN. THE ENGINEER MAY DECIDE TO SALVAGE PORTIONS OF THE EXISTING ENTRANCE PAVEMENT STRUCTURE; THEREFORE, REDUCING PAY ITEM QUANTITIES. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR THIS REDUCTION IN QUANTITIES.

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.

HMA CONCRETE REQUIRED TO CONSTRUCT THE ENTRANCES SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 406 AND 408 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

WHEN THE HMA CONCRETE PROPOSED FOR THE IMPROVEMENT IS THICKER THAN 75 mm (3 INCHES) AND REQUIRE PLACEMENT IN MORE THAN ONE LIFT. THE BOTTOM LIFT(S) SHALL MEET THE REQUIREMENTS OF HMA BASE COURSE IN SECTION 406 OF THE STANDARD SPECIFICATIONS AND THE TOP LIFT OF 50 mm (2 INCHES) SHALL MEET THE REQUIREMENTS OF HMA CONCRETE SURFACE COURSE, SUPERPAVE.

THIS WORK WILL BE PAID FOR IN ACCORDANCE WITH SECTIONS 351, 358, 408, 423 AND 440 OF THE STANDARD SPECIFICATIONS.



**SECTION E-E ENTRANCE TYPICAL SECTION**

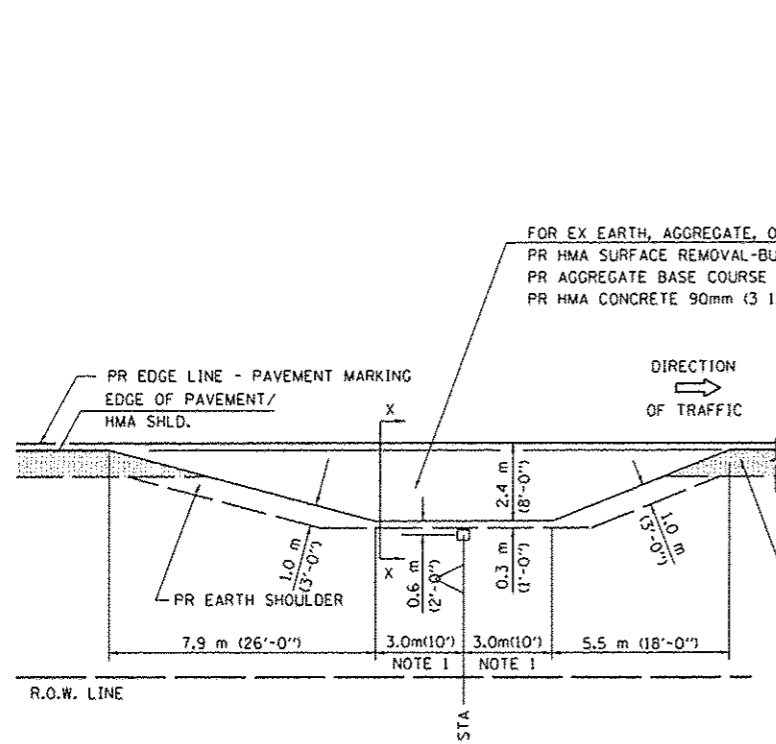
NOTE 1: WIDTH OF ENTRANCE MAY BE INCREASED AT THE PIPE CULVERT DUE TO THE DITCHLINE BEING LOCATED IN THE ENTRANCE FLARE AREA.

ALL DIMENSIONS ARE IN MILLIMETERS ( INCHES ) UNLESS OTHERWISE SHOWN.

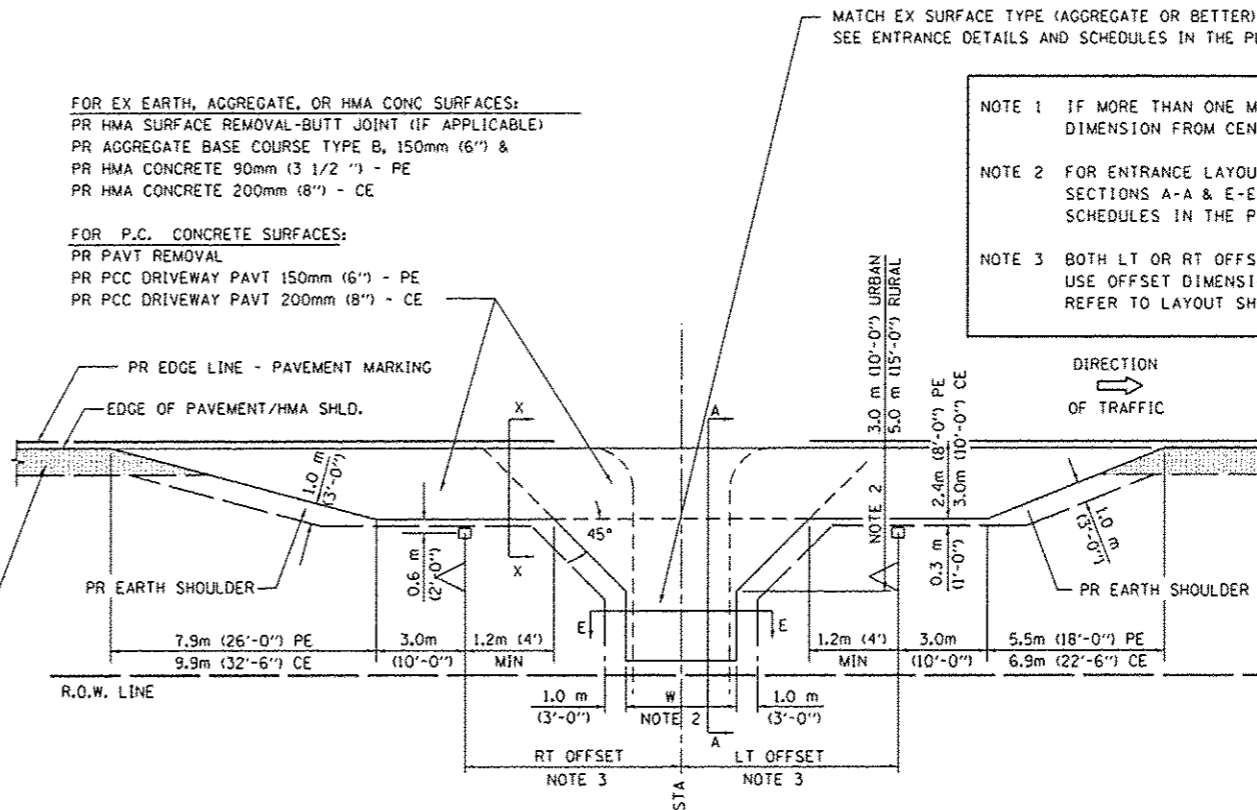
**REVISIED SHEET 2-28-2013**

FILE NAME +	USER NAME + sparkgv	DESIGNED -	REVISED - 2/19/03 (JCN)	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>DISTRICT 6 DETAILS FOR RURAL /URBAN ENTRANCE &amp; MAILBOX TURNOUT W/O CONC GUTTER (3R - PROJECTS)</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cr:\pwwork\pwwork\sparkgv\0329085\067862-shd-detailed.dgn	DRAWN - CADD	REVISED - 4/01/04 (JCN)	685			113B-4	HANCOCK	57	43	
PLOT SCALE + 40,0000 / in.	CHECKED - JCN	REVISED - 8/01/07 (JCN)	CONTRACT NO. 72B62							
PLOT DATE + Dec-18-2012 10:20:00AM	DATE - FEBRUARY 23, 1999	REVISED -	FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT							
ENT 3R.DGN				SCALE:	SHEET NO. 1 OF 3 SHEETS	STA.	TO STA.			

**DETAILS OF MAILBOX TURNOUTS**



**PLAN - MAILBOX TURNOUTS**

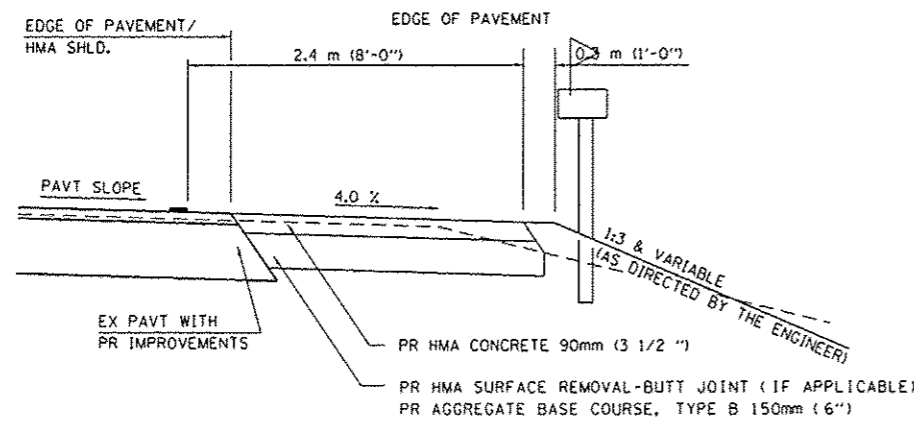


**PLAN - COMBINED MAILBOX TURNOUT WITH TRAILING OR LEADING ENTRANCE**

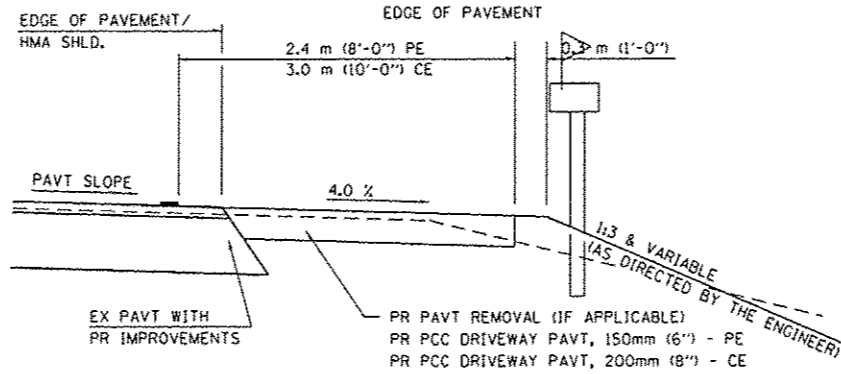
NOTE 1 IF MORE THAN ONE MAILBOX IS PRESENT, DIMENSION FROM CENTER OF END MAILBOX.

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

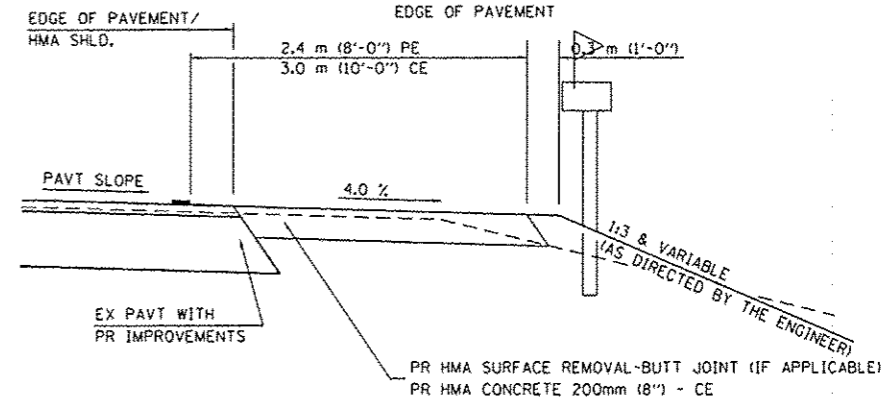
NOTE 3 BOTH LT OR RT OFFSETS FOR MAILBOX SHOWN USE OFFSET DIMENSION PER SCHEDULE AND REFER TO LAYOUT SHOWN ON THE PLAN.



**SECTION X-X THRU MAILBOX TURNOUT ALSO APPLIES TO MAILBOX TURNOUTS COMBINED WITH EX EARTH, AGGREGATE, OR HMA PE & FE**



**SECTION X-X THRU MAILBOX TURNOUT COMBINED WITH EX CONC PE OR CE**



**SECTION X-X THRU MAILBOX TURNOUT COMBINED WITH EX EARTH, AGGREGATE, OR HMA CE**

**REVISIED SHEET 2-28-2013**

FILE NAME c:\p\work\p\idot\parkg\0329805\067062-sht-details2.dgn	USER NAME sparkg	DESIGNED -	REVISIED 2/19/03 (JCN)	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 6 DETAILS FOR RURAL/URBAN ENTRANCE & MAILBOX TURNOUT W/O CONC GUTTER (3R - PROJECTS)	F.A.P. RTE. 685	SECTION 113B-4	COUNTY HANCOCK	TOTAL SHEETS 57	SHEET NO. 44		
ENT 3R.DGN	PLOT SCALE 40.0000 "/ in.	DRAWN CADD	REVISIED 4/01/04 (JCN)			SCALE:	SHEET NO. 2 OF 3 SHEETS	STA.	TO STA.	CONTRACT NO. 72B62		
	PLOT DATE Dec-10-2012 10:20:00AM	CHECKED JCN	REVISIED 8/01/07 (JCN)			FED. ROAD DIST. NO. ILLINOIS/FED. AID PROJECT						
		DATE FEBRUARY 23, 1999	REVISIED -									

ENTRANCE IMPROVEMENT SCHEDULE FOR RURAL / URBAN "3R" PROJECTS

LOCATION	TYPE OF ENTRANCE	EX MATERIAL TYPE	WIDTH	RT OFFSET	LT OFFSET	LENGTH (FROM EDGE OF PVT/HMA SHLD TO LIMITS OF IMPROVEMENT)	PR HMA CONC. THICKNESS	HMA SURF. REM. - BUTT JOINT	PAVEMENT REMOVAL	PREP OF BASE	AGG. BASE REPAIR	AGGREGATE BASE COURSE TY - B 6"	HMA (P. C.)	AGG (P. C.)	INCIDENTAL HMA SURF.	P. C. C. DRIVEWAY PAVEMENT 6"	P. C. C. DRIVEWAY PAVEMENT 8"	
(LT / RT) (STA) ( + )	(FE / PE / CE / MB) (RURAL / URBAN)	(EARTH / AGG. / HMA / P. C. C.)	FOOT	FOOT	FOOT	FOOT	INCH	SO. YD.	SO. YD.	SO. YD.	TON	SO YD	TON	TON	TON	SO. YD.	SO. YD.	
RT STA 146+00.00	FE	EARTH	22	14		24.5						79						
LT STA 147+62.00	FE	AGG	22		14	95						251						
LT STA 147+62.00	FE	EARTH	22		14	94						248						
RT STA 147+69.00	PE	AGG	16	14		24.5						62						
RT STA 152+62.00	PE	EARTH	16	14		25.5						40						
TOTAL =												680						

⚠ REVISSED SHEET 2-28-2013

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DISTRICT 6 DETAILS FOR RURAL / URBAN ENTRANCE &  
MAILBOX TURNOUT W/D CONC GUTTER (3R - PROJECTS)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
685	113B-4	HANCOCK	57	45
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FILE NAME : c:\pwwork\pwwork\spk\spk\gd0329885\067	USER NAME : spk	DESIGNED -	REVISED - 2/19/03 (JCN)
ENT 3R.DGN	662-shr-detail2.dgn	DRAWN - CADD	REVISED - 8/01/07 (JCN)
	PLOT SCALE = 40.0000' / in.	CHECKED - JCN	REVISED -
	PLOT DATE = Dec-10-2012 10:20:09AM	DATE - FEBRUARY 23, 1999	REVISED -

SCALE: SHEET NO. 3 OF 3 SHEETS STA. TO STA.