

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	D3 WW REPAIR 2014-1	*	41	1
* KENDALL & LASALLE ILLINOIS		CONTRACT NO. 66C40		

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- 30 - 35. LOCATION 5: S.N. 047-2525 AT STA. 1391+30
- 36 - 41. LOCATION 6: S.N. 047-2526 AT STA. 1396+50

STANDARDS

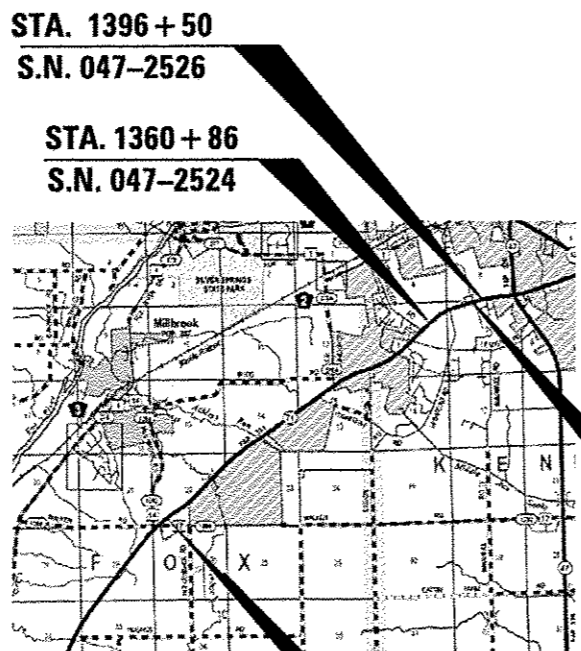
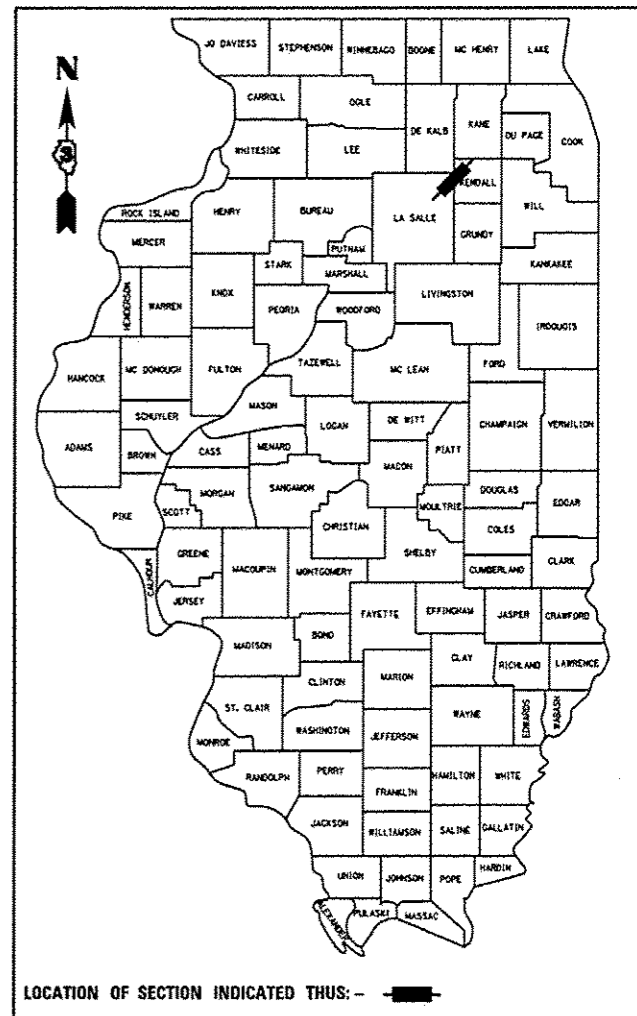
- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 630106 LONG-SPAN GUARDRAIL OVER CULVERT
- 280001-07 TEMPORARY EROSION CONTROL BARRIERS
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**PROPOSED
HIGHWAY PLANS**

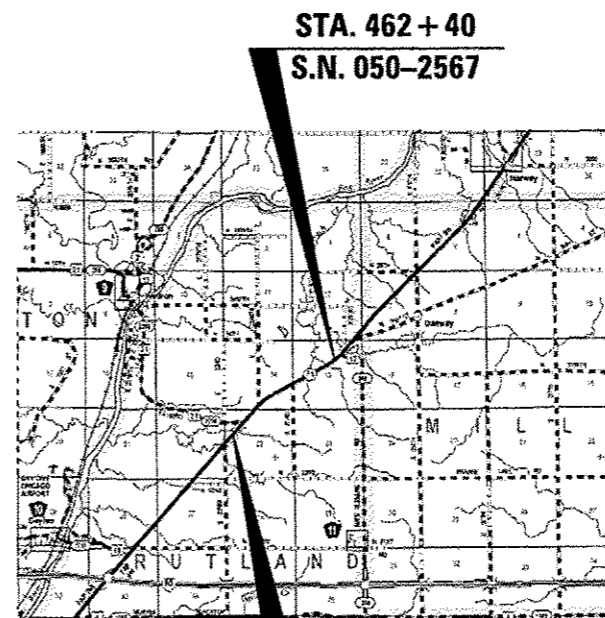
FAP ROUTE 311 (IL 71)
D3 WING WALL REPAIR 2014-1

HEADWALL & WINGWALL REPLACEMENT
KENDALL & LASALLE COUNTIES

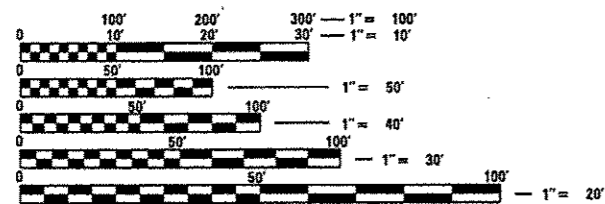
C-93-139-12



KENDALL COUNTY



LASALLE COUNTY



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

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

PROJECT ENGINEER JOE KANNEL, P.E.
UNIT CHEIF RON WOODSHANK
TOWNSHIP VARIOUS
CONTRACT NO. 66C40

MINOR	
ARTERIAL	
FAP 311 (IL 71)	
2011	
ADT	6425
P.V.	90%
S.U.	3%
M.U.	7%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Paul A. Carter 4-3-2013
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 10 2013
John D. Baranzelli, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

May 10 2013
Omer Osman, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

GENERAL NOTES

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF WORK; HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

FOR STABILIZATION, ALL TYPE III BARRICADES WILL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.

ONLY THOSE TREES DESIGNATED BY THE ENGINEER OR LISTED IN THE TREE REMOVAL SCHEDULE SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.

THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES IN AREAS TO BE SEEDED OR SODDED THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF BRACED EXCAVATION.

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 WILL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

THE CONTRACTOR SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.

COMMITMENTS

DISPOSAL OF EXCAVATED MATERIALS. ALL UNSUITABLE OR UNSTABLE MATERIALS, DEFINED AS SOILS, EMBANKMENTS, SUB-BASE GRANULAR MATERIALS, AND/OR AGGREGATE MATERIALS THAT ARE EXCAVATED DUE TO CONSTRUCTION OPERATIONS SHALL BE DISPOSED OF WITHIN THE LIMITS OF THE EXISTING RIGHT OF WAY. DISPOSAL OF EXCAVATED MATERIALS, AS DEFINED ABOVE, OFF THE EXISTING RIGHT OF WAY SHALL NOT BE PERMITTED.

EXCAVATED MATERIALS SHALL BE DISPOSED OF AT LOCATIONS DIRECTED BY THE ENGINEER. ANY SUCH DISPOSAL SHALL NOT CREATE AND UNSIGHTLY OR OBJECTIONABLE APPEARANCE OR DETRACT FROM THE NATURAL TOPOGRAPHIC FEATURES WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

PREPARED BY: Donna Braverman
DISTRICT STUDIES & PLANS ENGINEER

DATE: 4-3-2013

EXAMINED BY: Hebert
DISTRICT CONSTRUCTION ENGINEER

Wayne L. Phillips
DISTRICT MATERIALS ENGINEER

Kevin G. Fisher
DISTRICT OPERATIONS ENGINEER

FILE NAME =	USER NAME = woodshenkr1	DESIGNED - RS	REVISED -
or\pwork\pwork\woodshenkr1\d0311733\066C40-ahs-details.dgn		DRAWN - RS	REVISED -
	PLOT SCALE = 100.0000' / 1"	CHECKED - RW	REVISED -
	PLOT DATE = 4/2/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

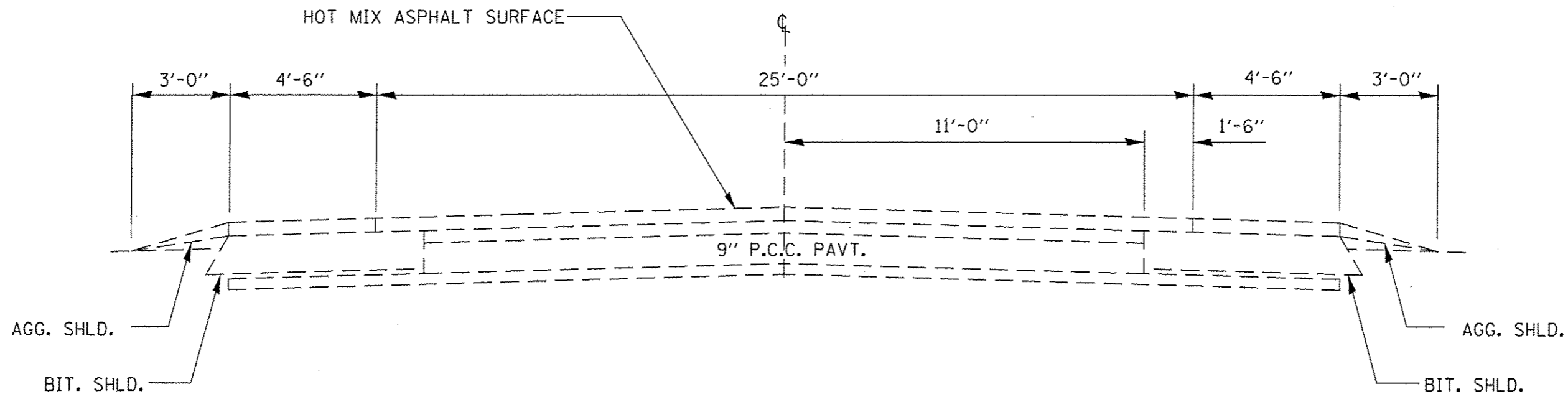
GENERAL NOTES

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

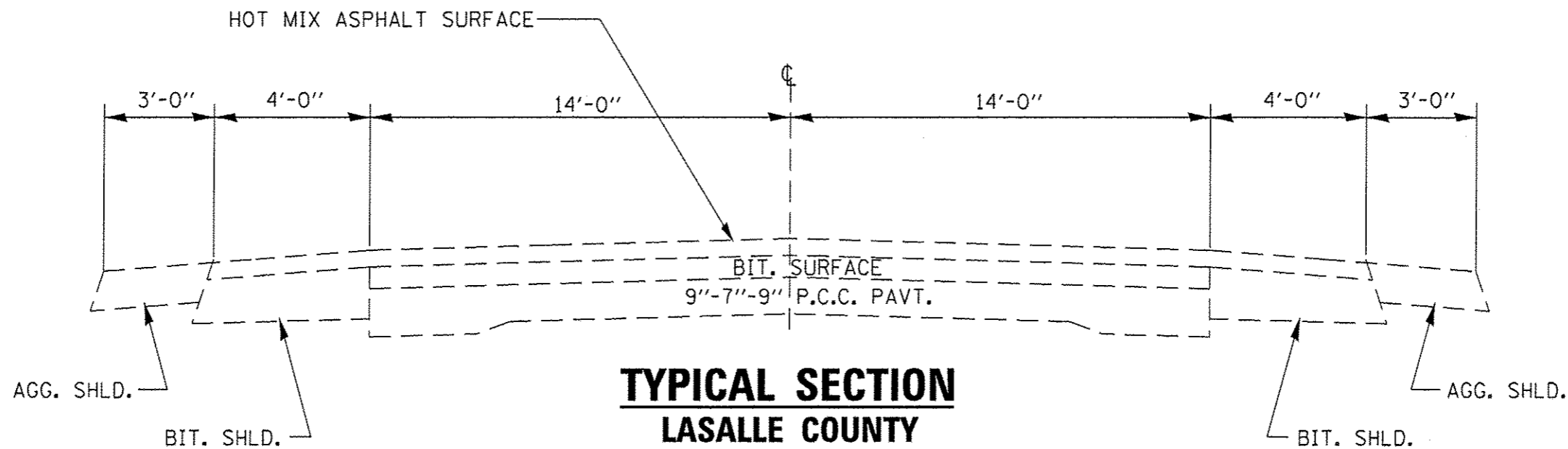
F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	D3 HW REPAIR 2014-1	*	41	2
* KENDALL & LASALLE			CONTRACT NO. 66C40	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				100% CONTRACT MAINT.	
				LASALLE CO.	KENDALL CO.
				ROADWAY 0014 RURAL	ROADWAY 0014 RURAL
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	64	20	44
25000210	SEEDING, CLASS 2A	ACRE	0.12	0.04	0.08
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	12	4	8
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	12	4	8
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	12	4	8
25100630	EROSION CONTROL BLANKET	SQ YD	1008	332	676
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	1625	540	1085
28000400	PERIMETER EROSION BARRIER	FOOT	1200	400	800
48101200	AGGREGATE SHOULDERS, TYPE B	TON	40	8	32
50102400	CONCRETE REMOVAL	CU YD	57	22	35
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	5980	2180	3800
54003000	CONCRETE BOX CULVERTS	CU YD	57	22	35
63000350	LONG-SPAN GUARDRAIL OVER CULVERT, 12 FT 6 IN SPAN	FOOT	152	76	76
63200310	GUARDRAIL REMOVAL	FOOT	152	76	76
63301210	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	156	156	
63301990	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 1	EACH	2	2	
67100100	MOBILIZATION	L SUM	1	0.5	0.5
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.33	0.67
70400100	TEMPORARY CONCRETE BARRIER	FOOT	276	276	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1104		1104
70600251	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	4	
70600352	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	16		16
78200410	GUARDRAIL MARKERS, TYPE A	EACH	22	14	8
X0322121	SHEET WATERPROOFING MEMBRANE SYSTEM	SQ YD	95	32	63
X2020502	BRACED EXCAVATION	CU YD	528	176	352
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	19	9	10
Z0015500	DEBRIS REMOVAL	L SUM	1	0.5	0.5

Rev.



**TYPICAL SECTION
KENDALL COUNTY**



**TYPICAL SECTION
LASALLE COUNTY**

FILE NAME *	USER NAME * petelyj	DESIGNED - RS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
o:\pwork\pisd\petelyj\0311733\03660	B-shtr-detail.dgn	DRAWN - RS	REVISED -			311	D3 WW REPAIR 2014-1	*	41	4
PLOT SCALE * 1/80,0000 ' / in.	CHECKED - RW	DATE -	REVISED -			* KENDALL & LASALLE		CONTRACT NO. 66C40		
PLOT DATE * 4/3/2013	DATE -	REVISED -	SCALE:			SHEET 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT		

GUARD RAIL SCHEDULE							
STA. - STA.	LT	RT	GUARDRAIL REMOVAL	LONG-SPAN GUARDRAIL OVER CULVERT	REMOVE & RE- ERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	REMOVE & RE- ERECT TRAFFIC BARRIER TERMINAL, TYPE 1	GUARDRAIL MARKERS, TYPE A
LASALLE COUNTY			FOOT	FOOT	FOOT	FOOT	EACH
LOCATION 2							
459+95 - 463+52		X					9
462+05 - 464+05	X						5
462+05 - 462+22	X				17		
462+21 - 462+59	X		38	38			
462+21 - 462+59		X	38	38			
462+59 - 463+02		X			43		
462+59 - 463+55	X				96		
463+02 - 463+52		X				1	
463+55 - 464+05	X					1	
TOTALS			76	76	156	2	14

EARTHWORK SCHEDULE										
STA. - STA.	LT	RT	TOPSOIL EXCAVATION & PLACEMENT	BRACED EXCAVATION	SEEDING, CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	PERIMETER EROSION BARRIER	HEAVY DUTY EROSION CONTROL BLANKET
LASALLE COUNTY			CU YD	CU YD	ACRE	POUND	POUND	POUND	FOOT	SQ YD
LOCATION 1										
342+93 - 343+63	X		5	40	0.01	0.9	0.9	0.9	100	82
342+93 - 343+63		X	5	40	0.01	0.9	0.9	0.9	100	82
LOCATION 2										
462+05 - 462+75	X		5	48	0.01	0.9	0.9	0.9	100	84
462+05 - 462+75		X	5	48	0.01	0.9	0.9	0.9	100	84
TOTALS			20	176	0.4	3.6	3.6	3.6	400	332

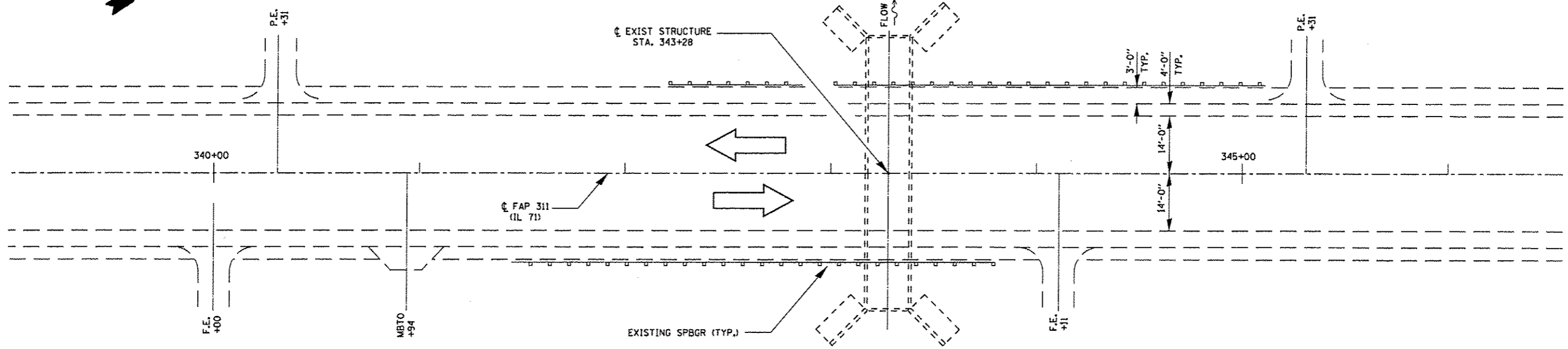
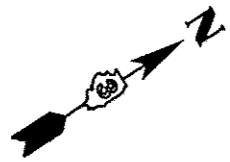
BARRIER WALL SCHEDULE						
STA.-STA.	LT	RT	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS	RELOCATE IMPACT ATTENUATORS
LASALLE COUNTY			FOOT	FOOT	EACH	EACH
LOCATION 2						
461+58 - 463+22	X		138		2	
461+58 - 463+22		X	138		2	
TOTALS			276		4	

GUARD RAIL SCHEDULE							
STA. - STA.	LT	RT	GUARDRAIL REMOVAL	LONG-SPAN GUARDRAIL OVER CULVERT	REMOVE & RE-ERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	REMOVE & RE-ERECT TRAFFIC BARRIER TERMINAL, TYPE 1	GUARDRAIL MARKERS, TYPE A
KENDALL COUNTY			FOOT	FOOT	FOOT	FOOT	EACH
LOCATION 3							
1120+08 - 1121+48		X					4
1120+28 - 1121+68	X						4
1120+45 - 1120+69	X						
1120+45 - 1120+69		X					
1120+69 - 1121+07	X		38	38			
1120+69 - 1121+07		X	38	38			
1121+07 - 1121+32	X						
1121+07 - 1121+32		X					
TOTALS			76	76			8

EARTHWORK SCHEDULE										
STA. - STA.	LT	RT	TOPSOIL EXCAVATION & PLACEMENT	BRACED EXCAVATION	SEEDING, CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	PERIMETER EROSION BARRIER	HEAVY DUTY EROSION CONTROL BLANKET
KENDALL COUNTY			CU YD	CU YD	ACRE	POUND	POUND	POUND	FOOT	SQ YD
LOCATION 3										
1120+45 - 1121+15	X		5	33	0.01	0.9	0.9	0.9	100	75
1120+45 - 1121+15		X	5	33	0.01	0.9	0.9	0.9	100	75
LOCATION 4										
1360+51 - 1361+21	X		5	39	0.01	0.9	0.9	0.9	100	74
1360+51 - 1361+21		X	5	39	0.01	0.9	0.9	0.9	100	74
LOCATION 5										
1390+80 - 1391+50		X	6	54	0.01	0.9	0.9	0.9	100	92
1391+10 - 1391+80	X		6	54	0.01	0.9	0.9	0.9	100	92
LOCATION 6										
1395+00 - 1395+70	X		6	50	0.01	0.9	0.9	0.9	100	97
1396+30 - 1397+00		X	6	50	0.01	0.9	0.9	0.9	100	97
TOTALS			44	352	0.8	7.2	7.2	7.2	800	676

BARRIER WALL SCHEDULE						
STA.-STA.	LT	RT	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS	RELOCATE IMPACT ATTENUATORS
KENDALL COUNTY			FOOT	FOOT	EACH	EACH
LOCATION 3						
1120+06 - 1121+70	X			138		2
1120+06 - 1121+70		X		138		2
LOCATION 4						
1360+04 - 1361+68	X			138		2
1360+04 - 1361+68		X		138		2
LOCATION 5						
1390+48 - 1392+12	X			138		2
1390+48 - 1392+12		X		138		2
LOCATION 6						
1395+68 - 1397+52	X			138		2
1395+68 - 1397+52		X		138		2
TOTALS				1104		16

BM #572 - RAIL ROAD SPIKE IN POWER POLE WITH TRANSFORMER
 STA. 341+45 Ⓢ 35.47' LT ELEV. 656.758



PLAN

S.N. 050-2562
 STA. 343+28
 10' X 8'
 R.C. BOX CULVERT
 0° SKEW

FILE NAME * c:\pwork\pwork\patel\j\d0311733\0366C	USER NAME = patel,jj B-ahs-details.dgn	DESIGNED - RS DRAWN - RS	REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL ROADWAY PLAN FOR LOCATION 1: SN 050-2562	F.A.P. RTE. 311	SECTION 03 WW REPAIR 2014-I	COUNTY *	TOTAL SHEETS 41	SHEET NO. 7
	PLOT SCALE = 100.0000' / in.	CHECKED - RW	REVISED - REVISED -			* KENDALL & LASALLE	CONTRACT NO. 66C40			
	PLOT DATE = 4/3/2013	DATE -	REVISED - REVISED -			ILLINOIS FED. AID PROJECT				
	SCALE: SHEET 1 OF 5 SHEETS STA. 343+28									

GENERAL NOTES

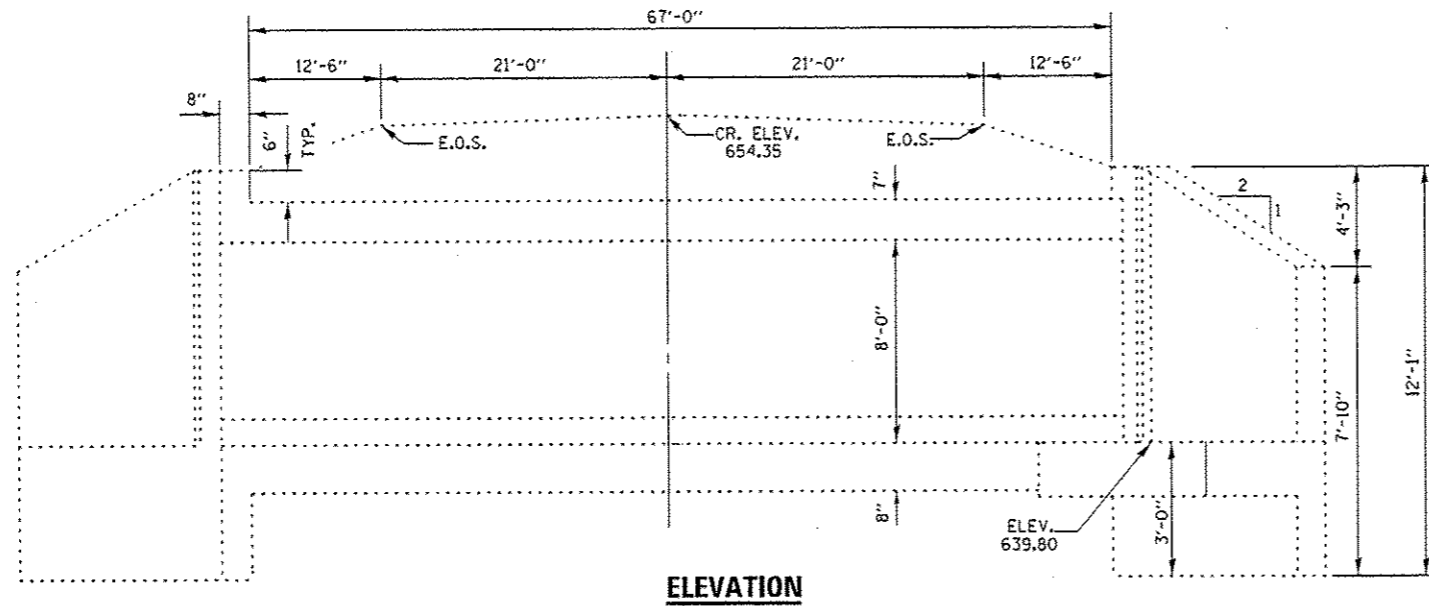
PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK; HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

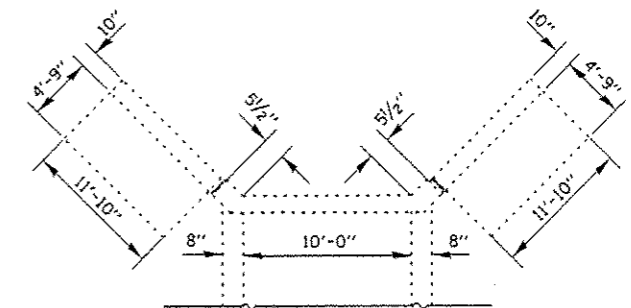
REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED

WATERPROOFING MEMBRANE SHALL BE APPLIED TO THE DESIGNATED AREAS ON THE BACKSIDE OF THE WINGWALL AS DETAILED

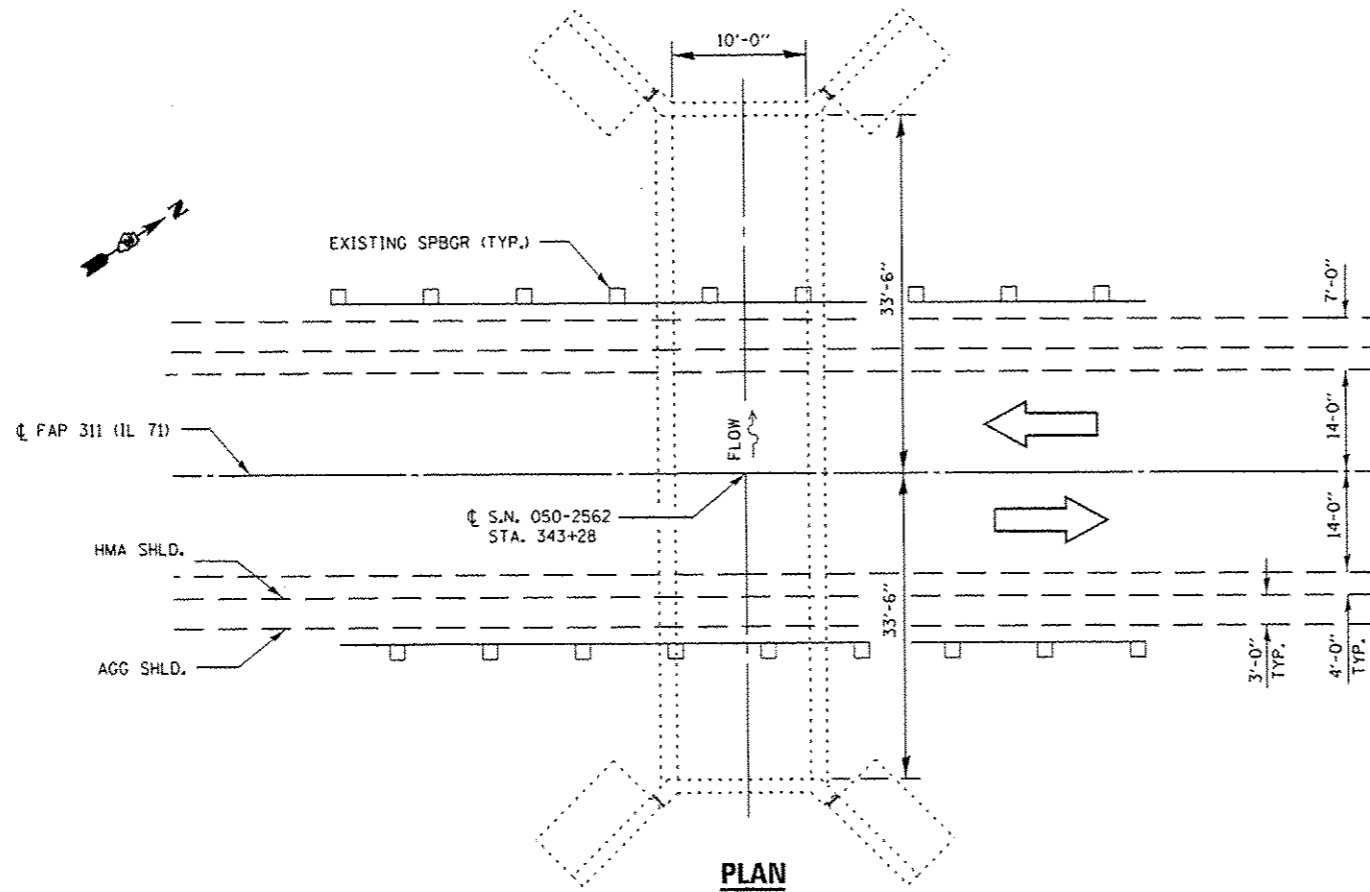
SUITABLE EXISTING SOIL SHALL BE EXCAVATED, STOCKPILED, AND REUSED FOR THE VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES OF THE FINISHED EARTHWORK. THE WORK SHALL BE PAID FOR AS TOPSOIL EXCAVATION AND PLACEMENT.



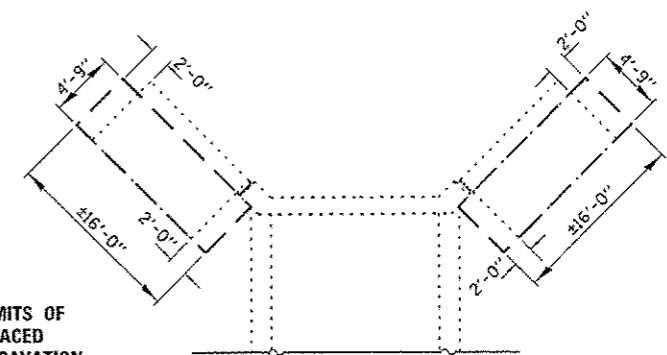
ELEVATION



PLAN SHOWING BOX CULVERT DIMENSIONS



PLAN



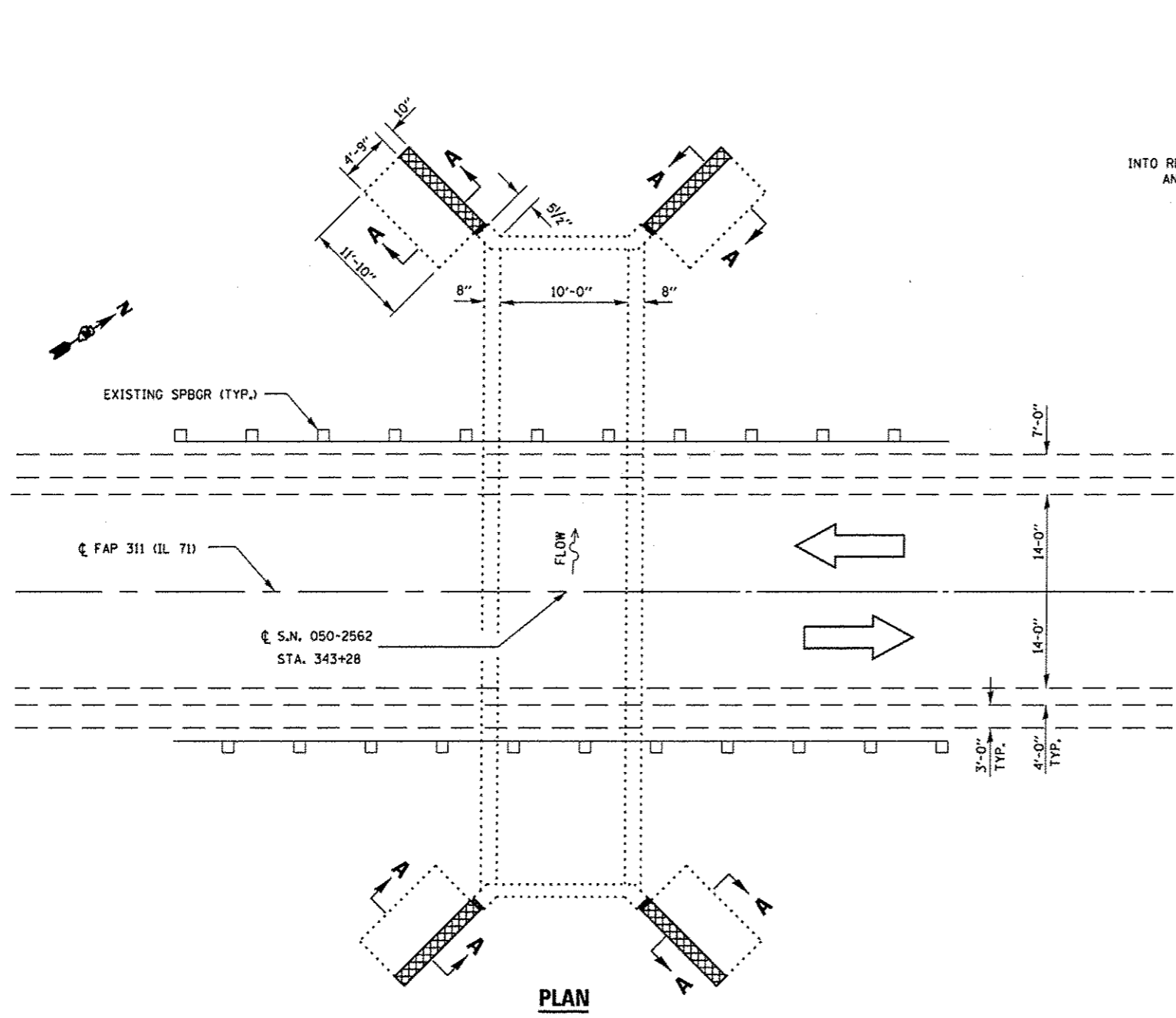
PLAN SHOWING EXCAVATION DIMENSIONS

TOTAL BILL OF MATERIAL

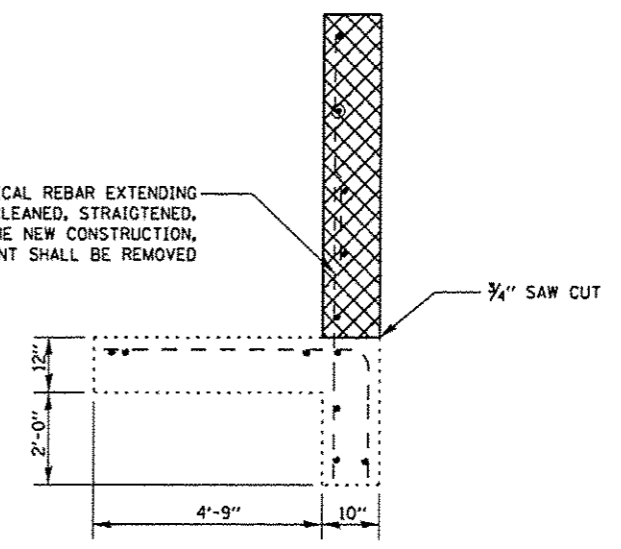
ITEM	UNIT	TOTAL
PERIMETER EROSION BARRIER	FOOT	200
TOPSOIL EXCAVATION AND PLACEMENT	CU YD	10
BRACED EXCAVATION	CU YD	80
CONCRETE REMOVAL	CU YD	10.2
CONCRETE BOX CULVERTS	CU YD	10.2
REINFORCEMENT BARS (EPOXY COATED)	POUND	890
SHEET WATERPROOFING MEMBRANE SYSTEM	SQ YD	15.8
HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	265



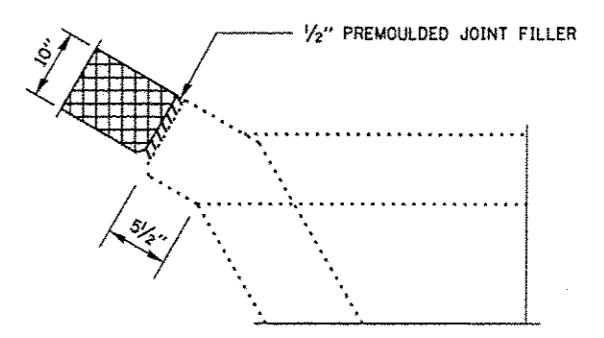
David Carl Puzey 5/9/13
Expires 11/30/14



EXISTING VERTICAL REBAR EXTENDING INTO REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED, AND INCORPORATED INTO THE NEW CONSTRUCTION. ALL OTHER REINFORCEMENT SHALL BE REMOVED



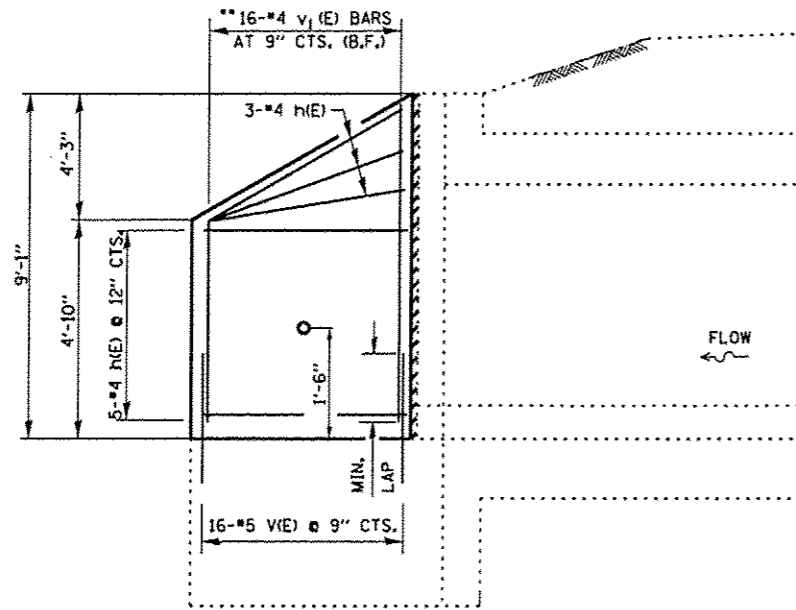
SECTION A-A



CORNER DETAIL (TYPICAL)

BILL OF MATERIAL

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	10.2

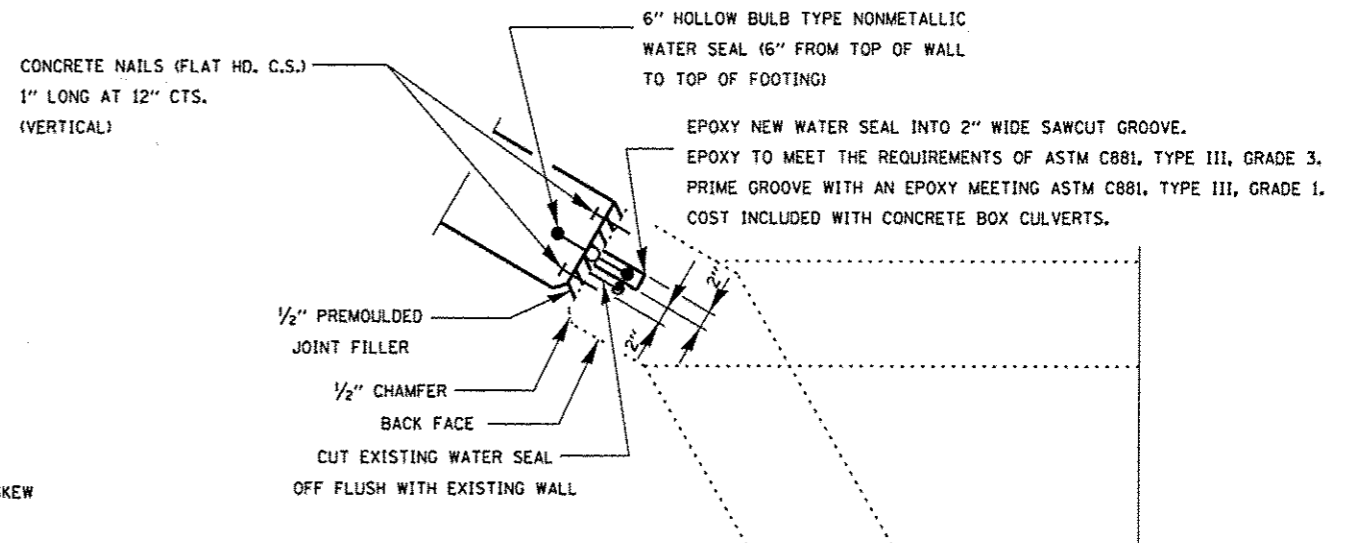


HALF ELEVATION

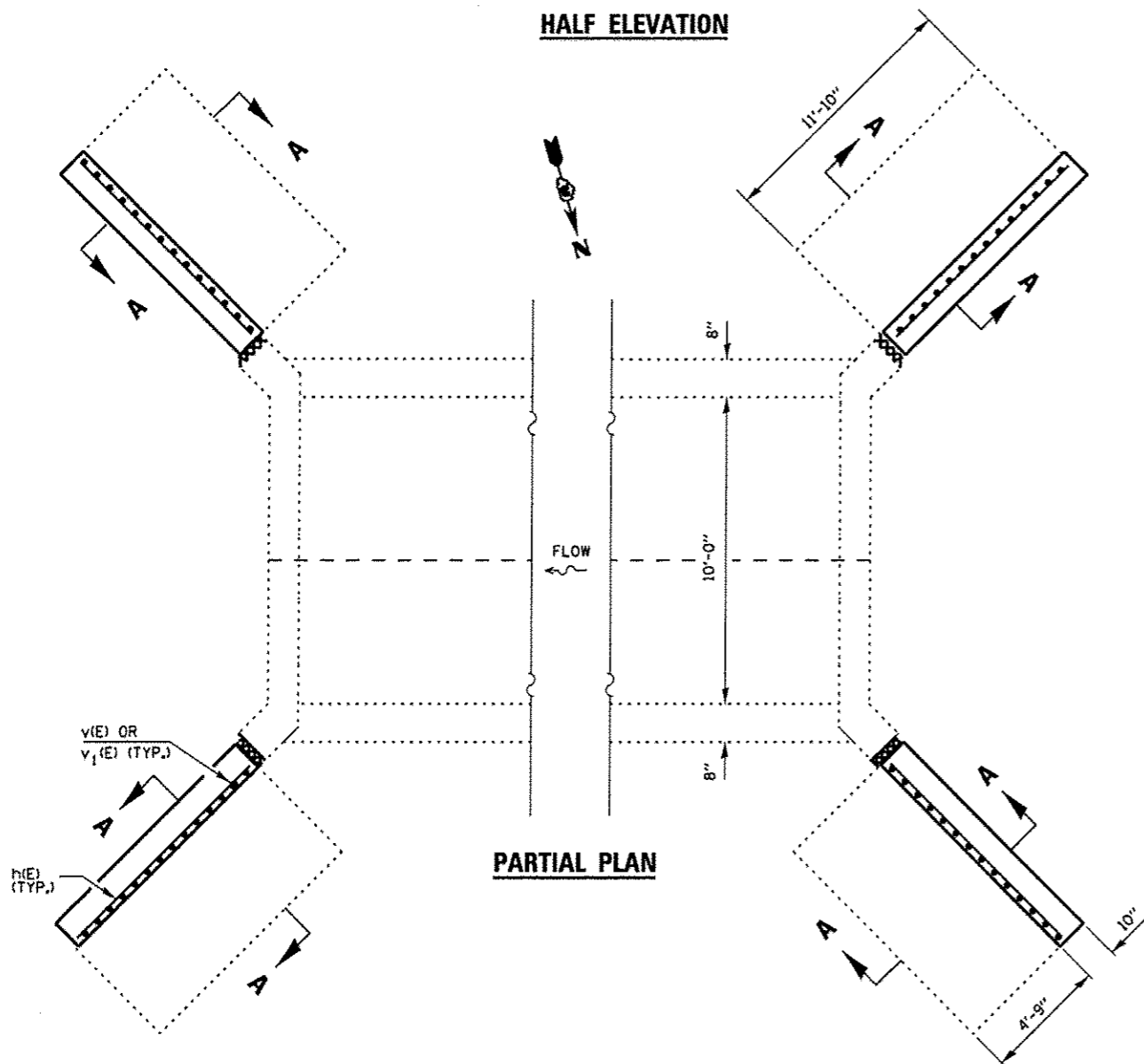
LAP LENGTH

BAR SIZE TO BE SPLICED	MIN. LAP LENGTH
#3	2'-1"
#4	2'-1"
#5	2'-7"
#6	3'-1"

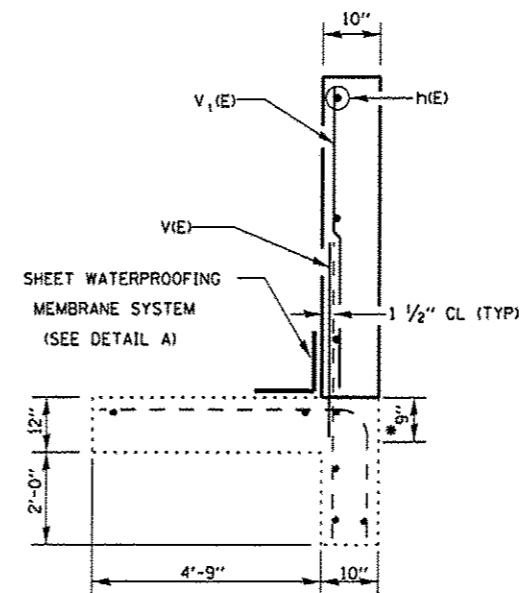
**ORDER V1(E) BAR FULL LENGTH AND CUT TO FIT SKEW



CORNER DETAIL

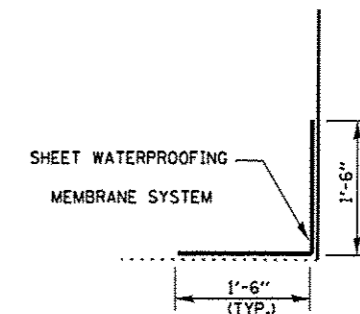


PARTIAL PLAN



SECTION A-A

* DRILL AND GROUT #5 V1(E) BAR INTO EXISTING FOOTING AT SPECIFIED SPACING AND DEPTH IN ACCORDANCE WITH ART. 584 OF THE STANDARD SPECS.



DETAIL A

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	32	#4	11'-6"	—
v(E)	64	#5	4'-0"	—
v1(E)	64	#4	8'-9"	—
CONCRETE REMOVAL			CU. YD.	10.2
CONCRETE BOX CULVERTS			CU. YD.	10.2
SHEET WATERPROOFING MEMBRANE SYSTEM			SO. YD.	15.8
REINFORCEMENT BARS, EPOXY COATED			LBS.	890

SOIL BORING LOG

ROUTE IL 71 DESCRIPTION IL 71 over a Stream, 4.1 miles North of I-80 LOGGED BY Larry Myers
SECTION 4 LOCATION SW 1/4, SEC. 13, TWP. 34N, RNG. 4E
COUNTY LaSalle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 050-2562 (Exst.) Station 343+28	D E P T H	B L O W S	U C S Qu	M O I S T %	Surface Water Elev. _____ ft	Stream Bed Elev. _____ ft	Groundwater Elev.: First Encounter _____ Dry ft Upon Completion _____ Dry ft After _____ Hrs. _____ ft	D E P T H	B L O W S	U C S Qu	M O I S T %
Augered HMA Shoulder, Brown Sand & Gravel Fill and Brown Silty Clay Loam Fill							Hard Gray Silty Clay Loam Till (continued)		4		
								5	5.8	12.5	
								7	S		
	646.71							4			
		3						4	6.1	18.8	
Very Stiff Black, Brown & Green Silty Clay Loam & Silty Clay Fill			3.5	22.6			4	6.1	18.8		
		4	P				6	S			
Hard Gray Silty Clay Loam Till						624.71	Hard Gray Clay Till	-25	3		
								4	4.1	19.8	
								5	S		
								2	2.5	29.1	
		2	P					5	S		
Hard Gray Silty Clay Loam Till											
		2						3			
		2	2.5	30.4				5	4.1	21.5	
		2	P					5	S		
Hard Gray Silty Clay Loam Till											
			2.0	26.5				3			
		4	P					5	4.1	20.3	
Hard Gray Silty Clay Loam Till											
		3						6	S		
		4	4.5	16.8							
Hard Gray Silty Clay Loam Till											
								4			
		5	7.6	16.0				5	4.3	19.7	
Hard Gray Silty Clay Loam Till											
								6	S		
		9	S			612.71	End of Boring				
Hard Gray Silty Clay Loam Till											
								5			
		5	6.1	15.2				6	S		
Hard Gray Silty Clay Loam Till											
		6	S								

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

BBS, form 137 (Rev. 8-99)

SOIL BORING LOG

ROUTE IL 71 DESCRIPTION IL 71 over a Stream, 4.1 miles North of I-80 LOGGED BY Larry Myers
SECTION 4 LOCATION SW 1/4, SEC. 13, TWP. 34N, RNG. 4E
COUNTY LaSalle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

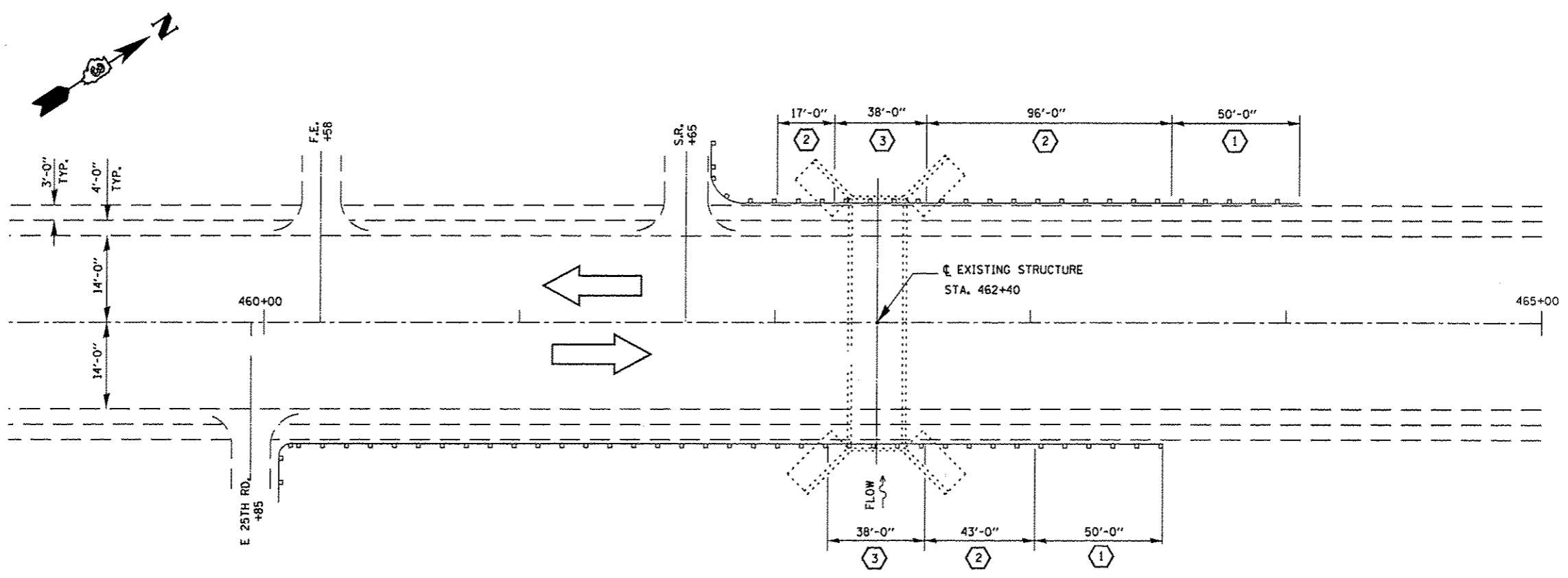
STRUCT. NO. 050-2562 (Exst.) Station 343+28	D E P T H	B L O W S	U C S Qu	M O I S T %	Surface Water Elev. _____ ft	Stream Bed Elev. _____ ft	Groundwater Elev.: First Encounter _____ Dry ft Upon Completion _____ Dry ft After _____ Hrs. _____ ft	D E P T H	B L O W S	U C S Qu	M O I S T %
Augered HMA Shoulder, Brown Sand & Gravel Fill, Black Silty Clay Loam Fill							Hard Gray Clay Till (continued)		3		
								3	4.4	19.6	
								5	S		
Very Stiff Brown, Black & Green Silty Clay Loam/Silty Clay Fill							Hard Gray Clay with Minor Silt & Silty Clay Till Layers	627.03			
									4		
									5	6.8	24.0
									7	S	
									2	2.5	26.8
Hard Brown & Gray Silty Clay Loam Till									2	3.0	25.7
									2	P	
									2		
									2	3.0	25.7
									2	P	
									2		
Hard Brown & Gray Silty Clay Loam Till									2		
									3	3.5	25.5
									3	P	
Loose Brown Fine Sand, Silt & Minor Clay Interbedded									3		
									4	5.7	19.6
									6	S	
Hard Gray Clay Till									3		
									4	6.1	20.6
									5	S	
Hard Gray Clay Till									3		
									4	6.1	20.6
									5	S	
Hard Gray Clay Till									3		
									3		
									3	19.2	
Hard Gray Clay Till									3		
									7		
									8	6.8	23.8
Hard Gray Clay Till									12	S	
									2		
									2	4.1	20.8

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

BBS, form 137 (Rev. 8-99)

BM #552 - RAIL ROAD SPIKE IN POWER POLE ACROSS FROM E 25TH RD.

STA. 459+99 (S) 41.25' LT ELEV. 644.420



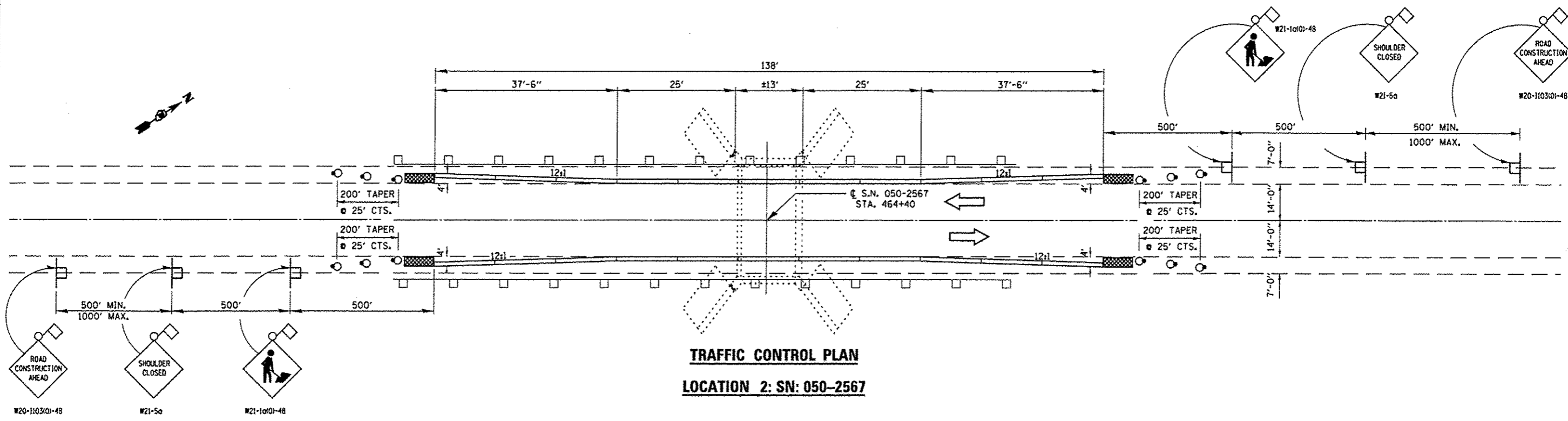
KEY

- ① REMOVE & RE-ERECT
TERMINAL END SECTION
- ② REMOVE & RE-ERECT
SPBGR
- ③ REMOVE EXISTING SPBGR.
INSTALL LONG-SPAN GUARDRAIL
OVER CULVERT 12 FT 6 IN.

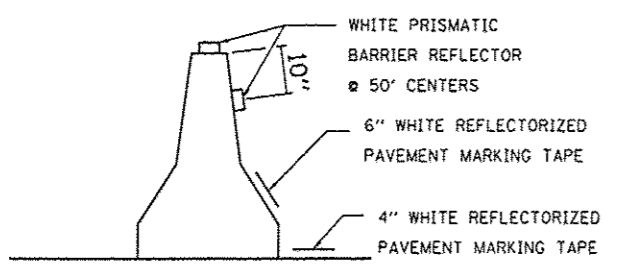
PLAN

S.N. 050-2567
 STA. 462+40
 8' X 8'
 R.C. BOX CULVERT
 NO SKEW

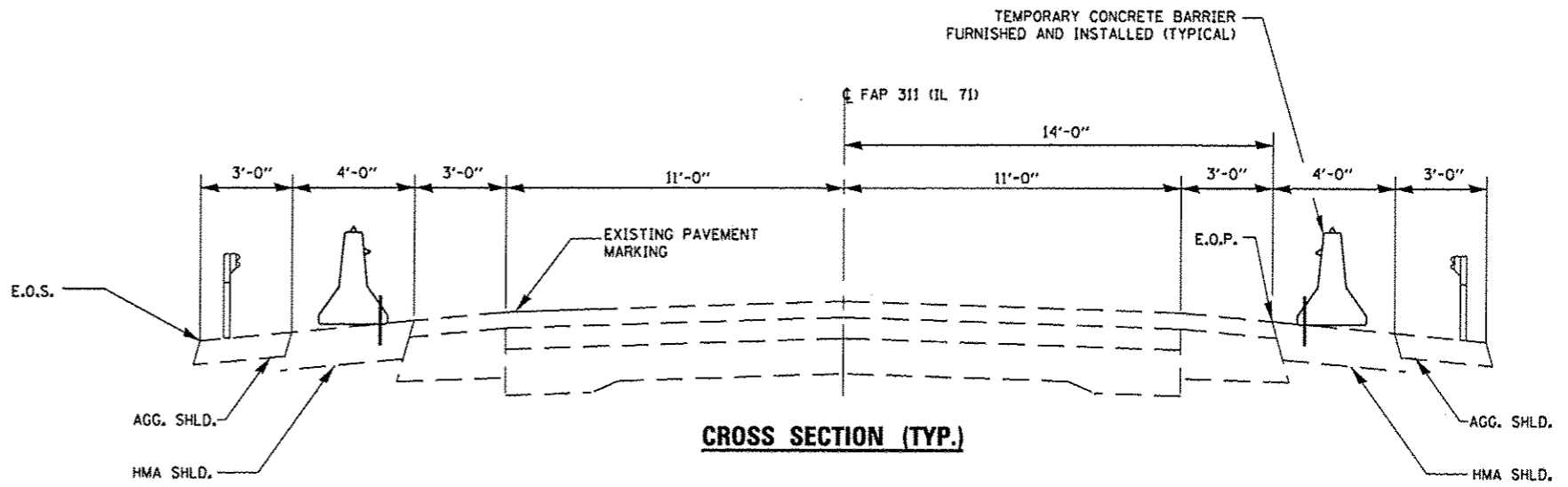
FILE NAME *	USER NAME = petelyj	DESIGNED - RS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL ROADWAY PLAN FOR LOCATION 2: SN 050-2567	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\p\work\p\dot\petelyj\08311733\03660	0-aht-detail.dgn	DRAWN - RS	REVISED -			311	D3 WW REPAIR 2014-1	*	41	12
	PLOT SCALE = 100.0000' / in.	CHECKED - RW	REVISED -			*KENDALL & LASALLE		CONTRACT NO. 66C40		
	PLOT DATE = 4/3/2013	DATE -	REVISED -			SCALE:	SHEET 1 OF 6 SHEETS	STA. 462+40	ILLINOIS FED. AID PROJECT	



TRAFFIC CONTROL PLAN
LOCATION 2: SN: 050-2567



TEMPORARY CONCRETE BARRIER WALL DETAILS



CROSS SECTION (TYP.)

SYMBOLS

- WORK AREA
- SIGN
- TYPE III BARRICADE
- TRAFFIC SIGNAL W/ BACK PLATE
- IMPACT ATTENUATOR
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- DOUBLE VERTICAL PANEL (SEE DETAIL)
- CRYSTAL BIDIRECTIONAL BARRIER WALL/GUARDRAIL MARKER

NOTES:
TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO STANDARD 704001
THIS DETAIL IS TO BE USED IN CONJUNCTION WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701201

BILL OF MATERIAL

ITEM	UNIT	TOTAL
TEMPORARY CONCRETE BARRIER	FOOT	276
IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE, NARROW, TEST LEVEL 3)	EACH	4

GENERAL NOTES

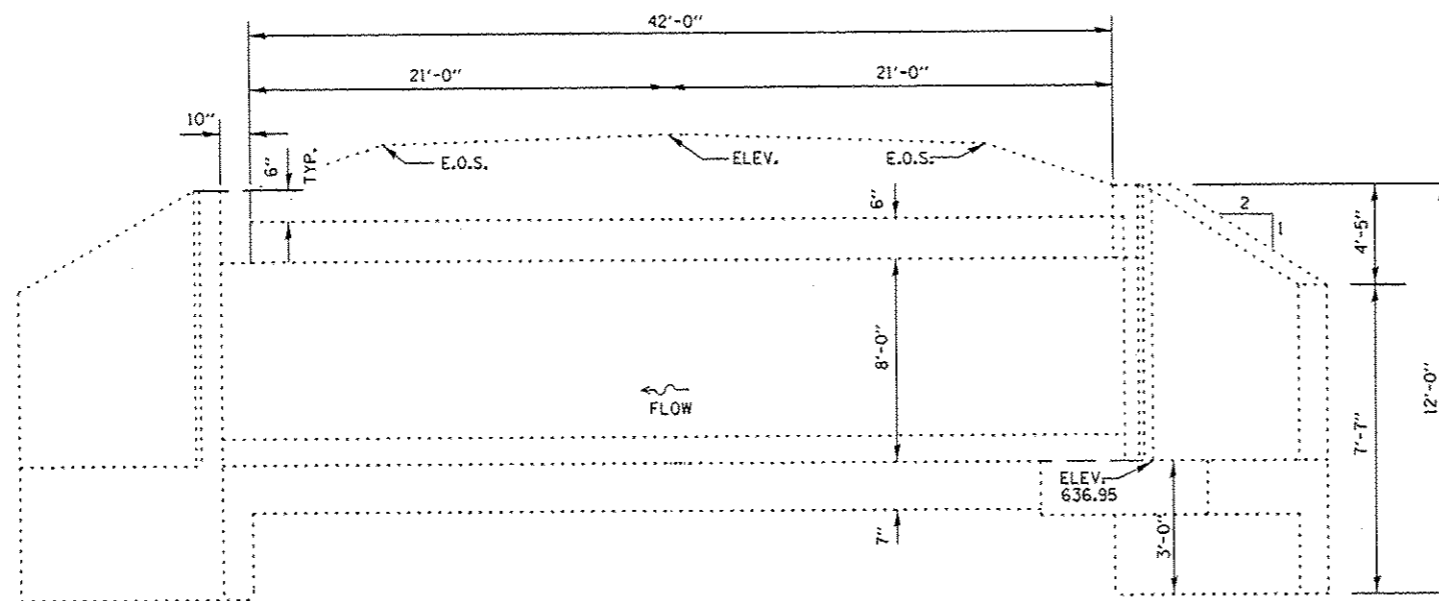
EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED

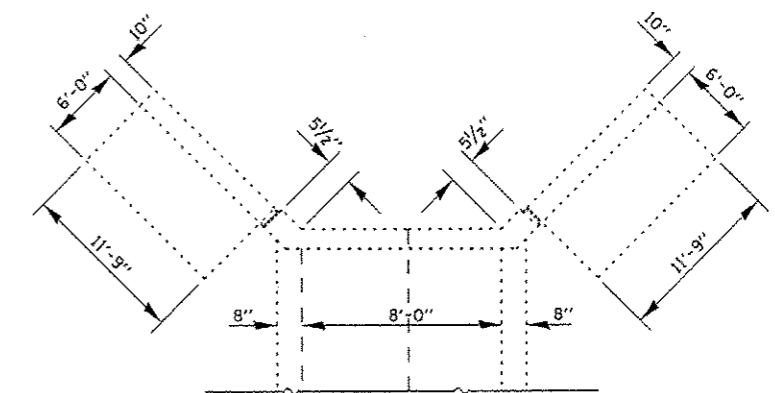
WATERPROOFING MEMBRANE SHALL BE APPLIED TO THE DESIGNATED AREAS ON THE BACKSIDE OF THE WINGWALL AS DETAILED

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK; HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

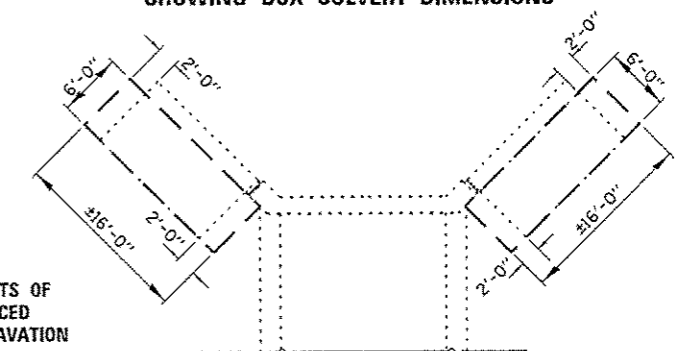
SUITABLE EXISTING SOIL SHALL BE EXCAVATED, STOCKPILED, AND REUSED FOR THE VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES OF THE FINISHED EARTHWORK. THE WORK SHALL BE PAID FOR AS TOPSOIL EXCAVATION AND PLACEMENT.



ELEVATION



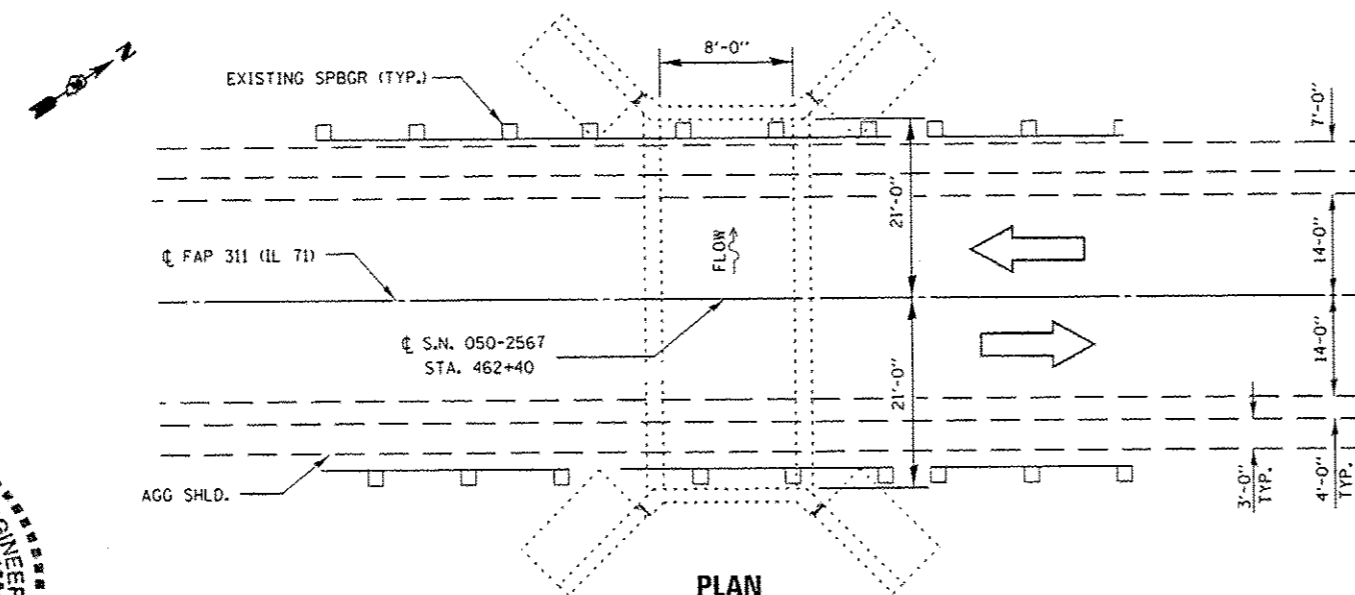
PLAN SHOWING BOX CULVERT DIMENSIONS



PLAN SHOWING EXCAVATION DIMENSIONS

TOTAL BILL OF MATERIAL

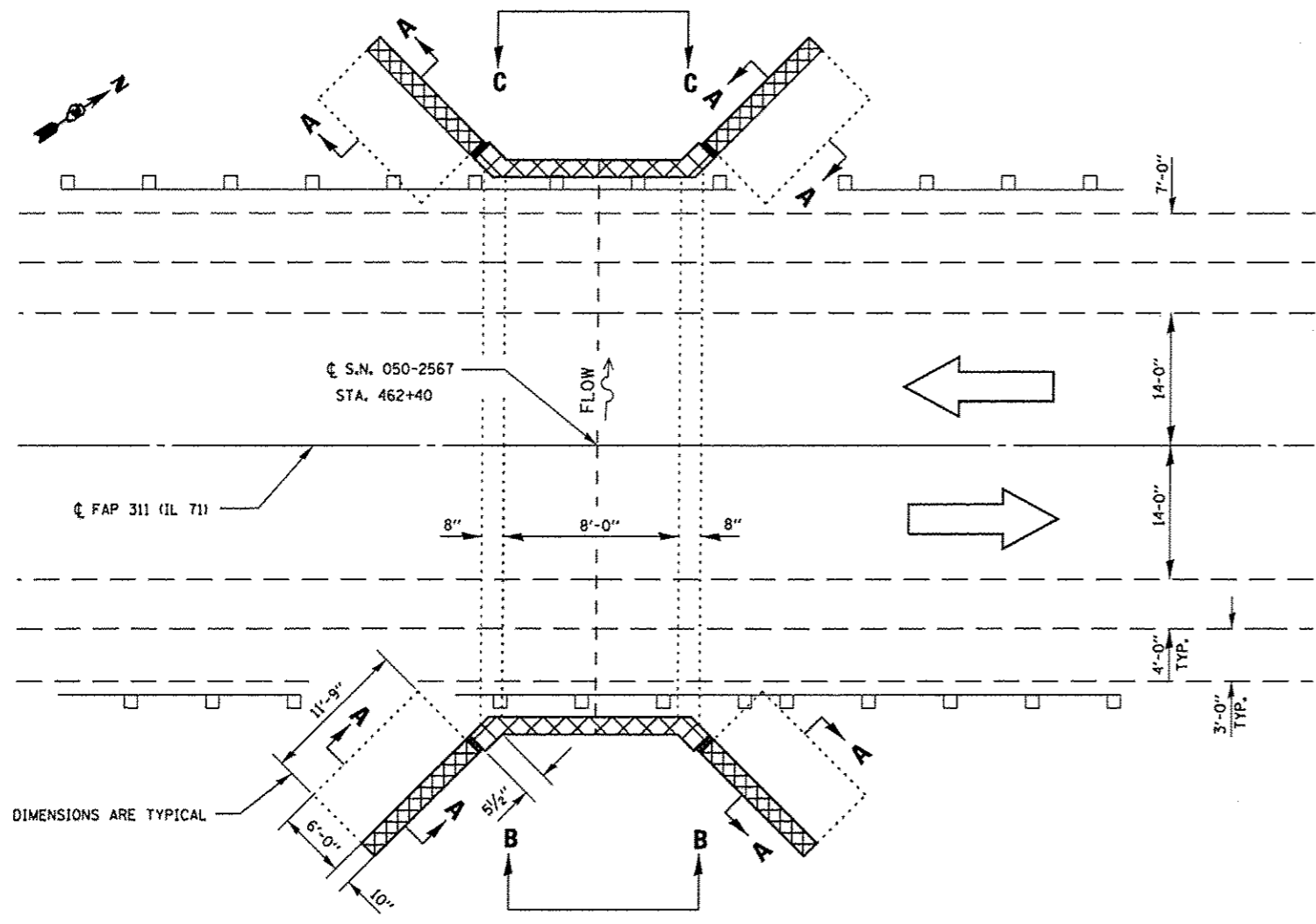
ITEM	UNIT	TOTAL
PERIMETER EROSION BARRIER	FOOT	200
TOPSOIL EXCAVATION AND PLACEMENT	CU YD	10
BRACED EXCAVATION	CU YD	96
CONCRETE REMOVAL	CU YD	11.2
CONCRETE BOX CULVERTS	CU YD	11.2
STRUCTURAL REPAIR OF CONCRETE < 5"	SQ. FT.	9
REINFORCEMENT BARS (EPOXY COATED)	POUND	1290
SHEET WATERPROOFING MEMBRANE SYSTEM	SQ YD	16
HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	275



PLAN

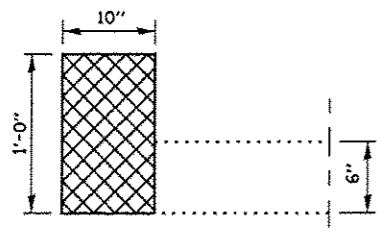


David Carl Puzey 5/9/13
Expres 11/30/14

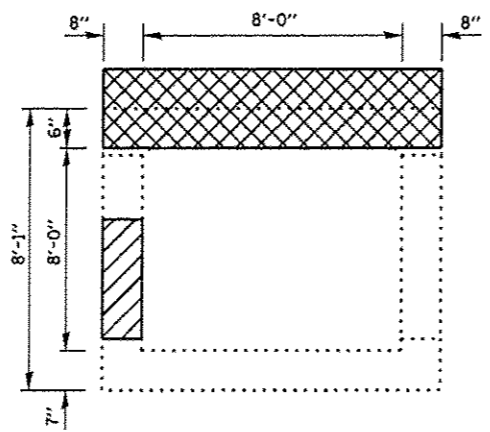


PLAN

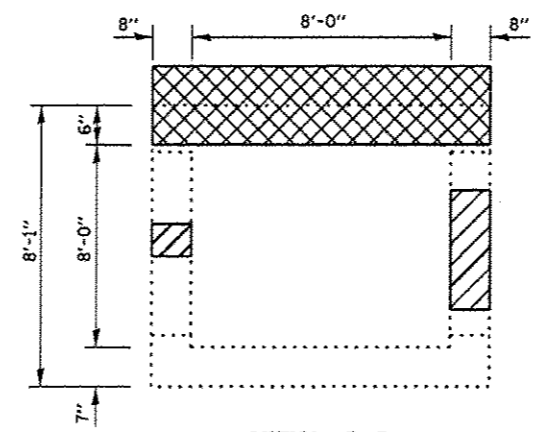
DIMENSIONS ARE TYPICAL



HEADWALL REMOVAL DETAIL

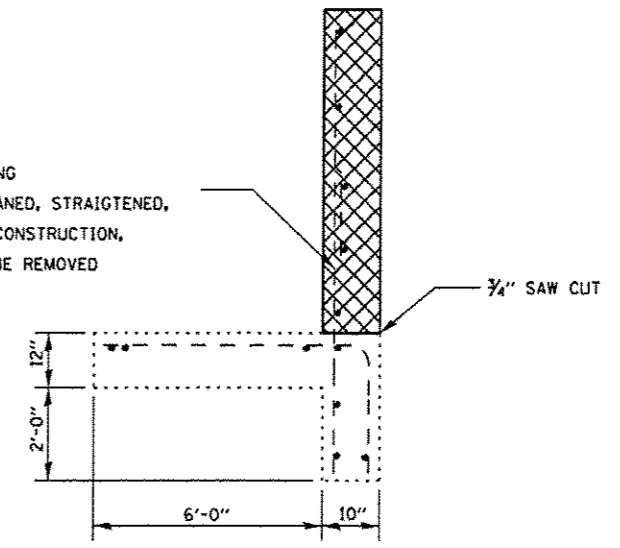


VIEW B-B

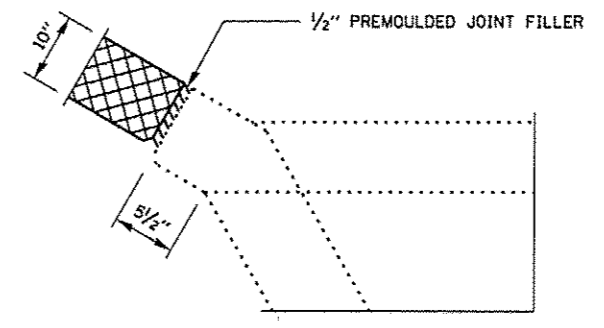
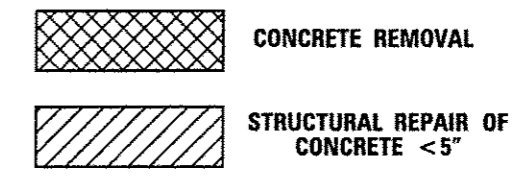


VIEW C-C

EXISTING VERTICAL REBAR EXTENDING INTO REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED, AND INCORPORATED INTO THE NEW CONSTRUCTION, ALL OTHER REINFORCEMENT SHALL BE REMOVED



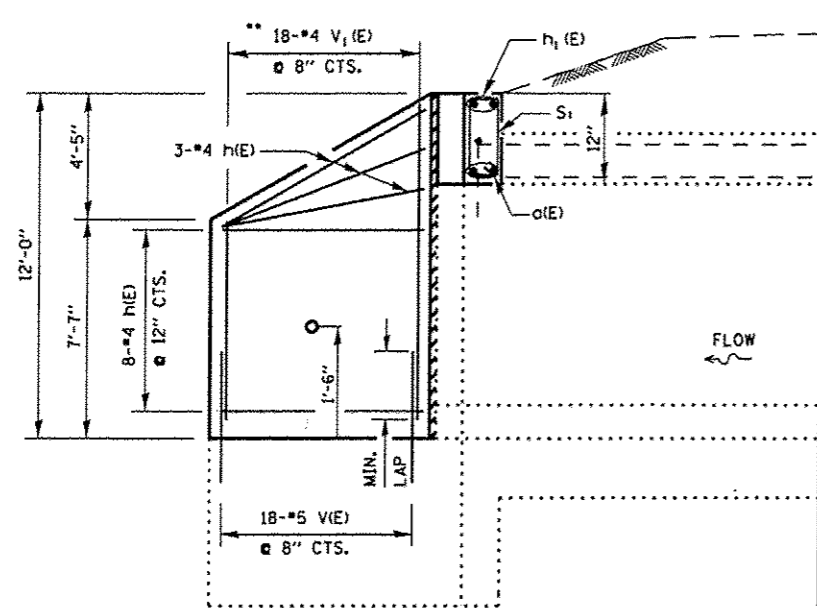
SECTION A-A



CORNER DETAIL (TYPICAL)

BILL OF MATERIAL

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	11.2
STRUCTURAL REPAIR OF CONCRETE < 5"	SQ FT	9

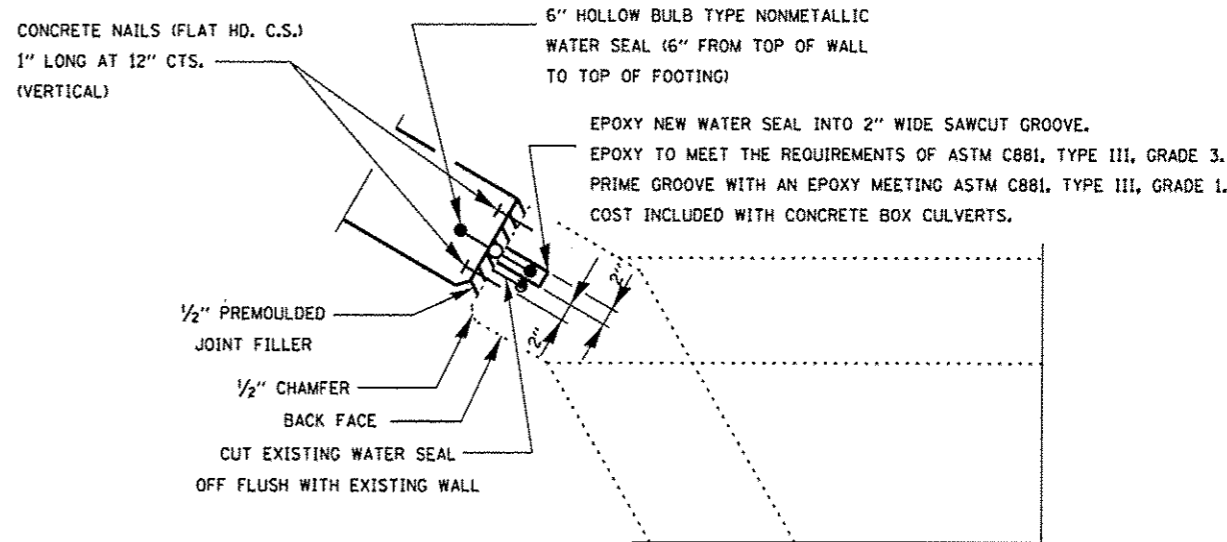


HALF ELEVATION

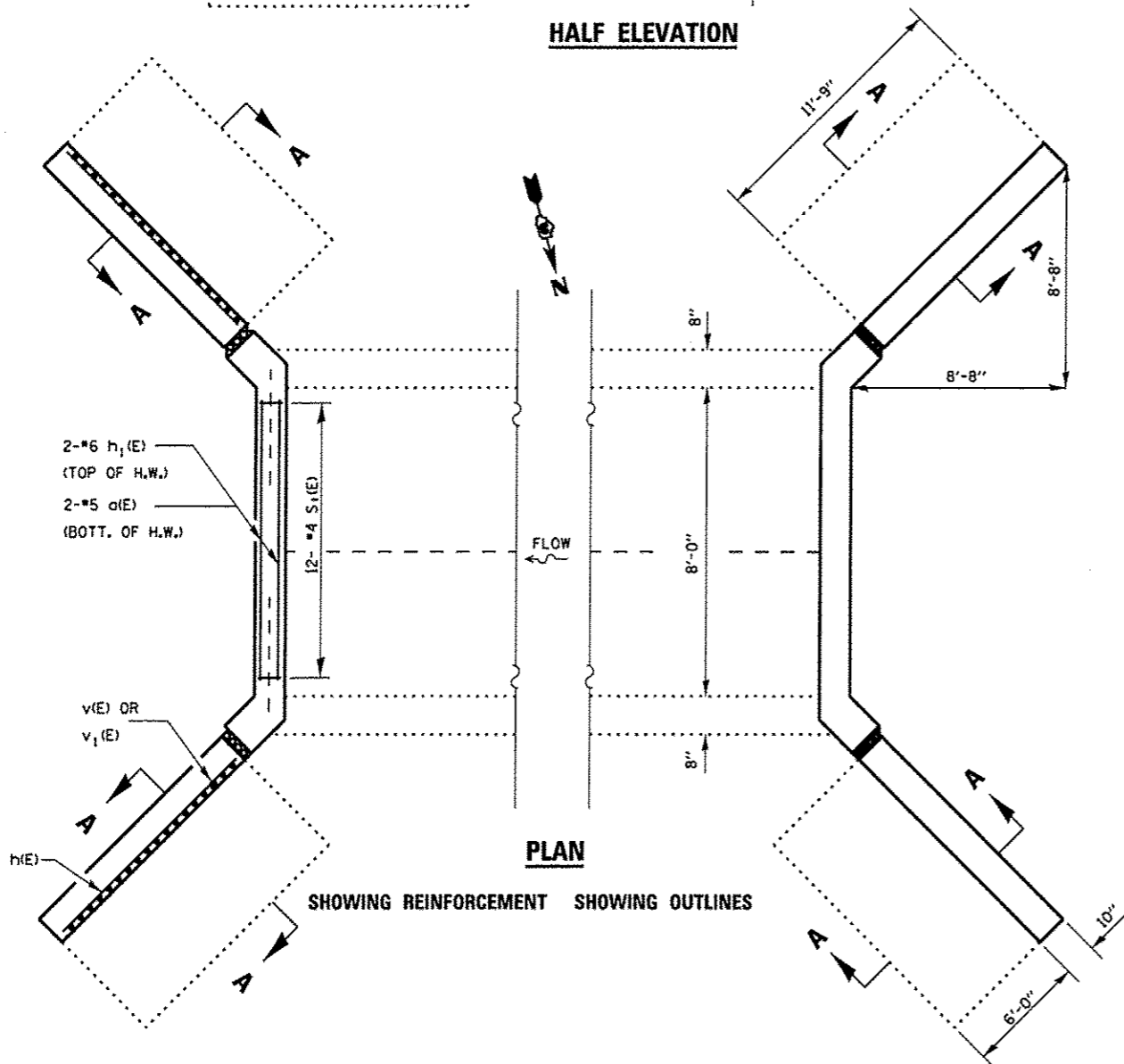
LAP LENGTH

BAR SIZE TO BE SPLICED	MIN. LAP LENGTH
#3	2'-1"
#4	2'-1"
#5	2'-7"
#6	3'-1"

**ORDER V₁(E) BAR FULL LENGTH AND CUT TO FIT SKEW

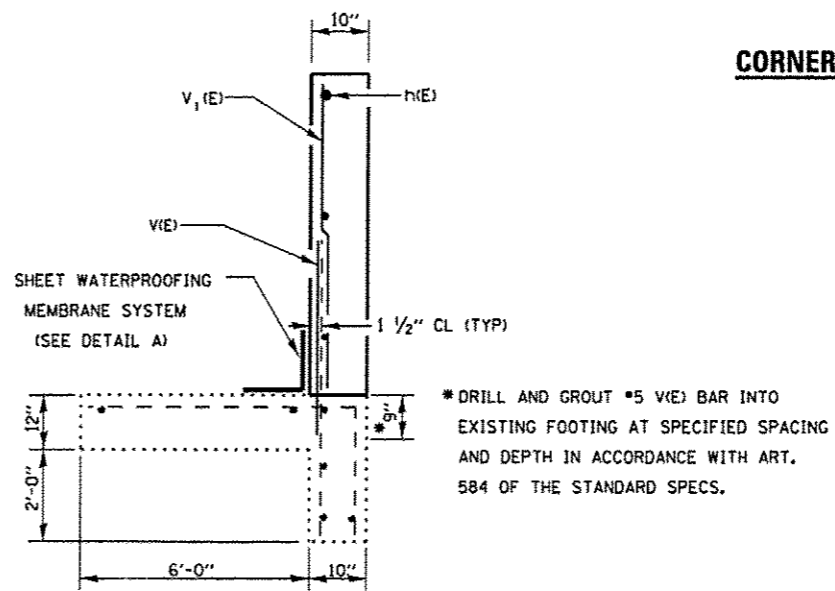


CORNER DETAIL



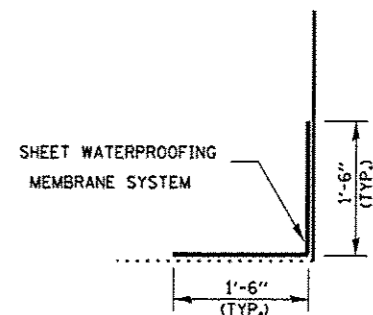
PLAN

SHOWING REINFORCEMENT SHOWING OUTLINES



SECTION A-A

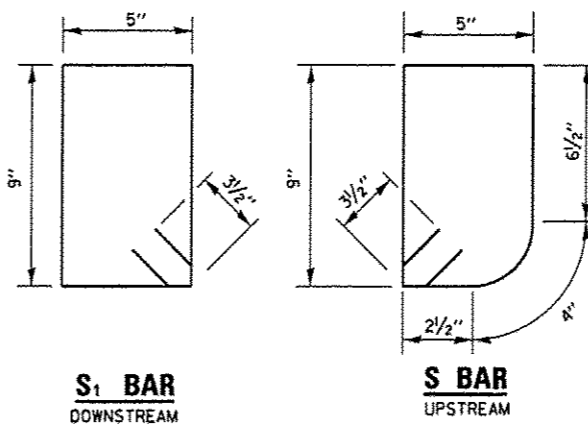
*DRILL AND GROUT #5 V(E) BAR INTO EXISTING FOOTING AT SPECIFIED SPACING AND DEPTH IN ACCORDANCE WITH ART. 584 OF THE STANDARD SPECS.



DETAIL A

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
o(E)	2	#5	8'-6"	—
h(E)	44	#4	11'-6"	—
h1(E)	2	#6	8'-6"	—
s(E)	10	#4	2'-10"	□
s1(E)	10	#4	2'-11"	□
v(E)	72	#5	4'-0"	—
v1(E)	72	#4	11'-8"	—
CONCRETE REMOVAL		CU. YD.	11.2	
CONCRETE BOX CULVERTS		CU. YD.	11.2	
SHEET WATERPROOFING MEMBRANE SYSTEM		SO. YD.	15.7	
REINFORCEMENT BARS, EPOXY COATED		LBS.	1290	



**S₁ BAR
DOWNSTREAM**

**S BAR
UPSTREAM**

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		DRAWN - RS	REVISED -
		CHECKED - RW	REVISED -
		DATE -	REVISED -

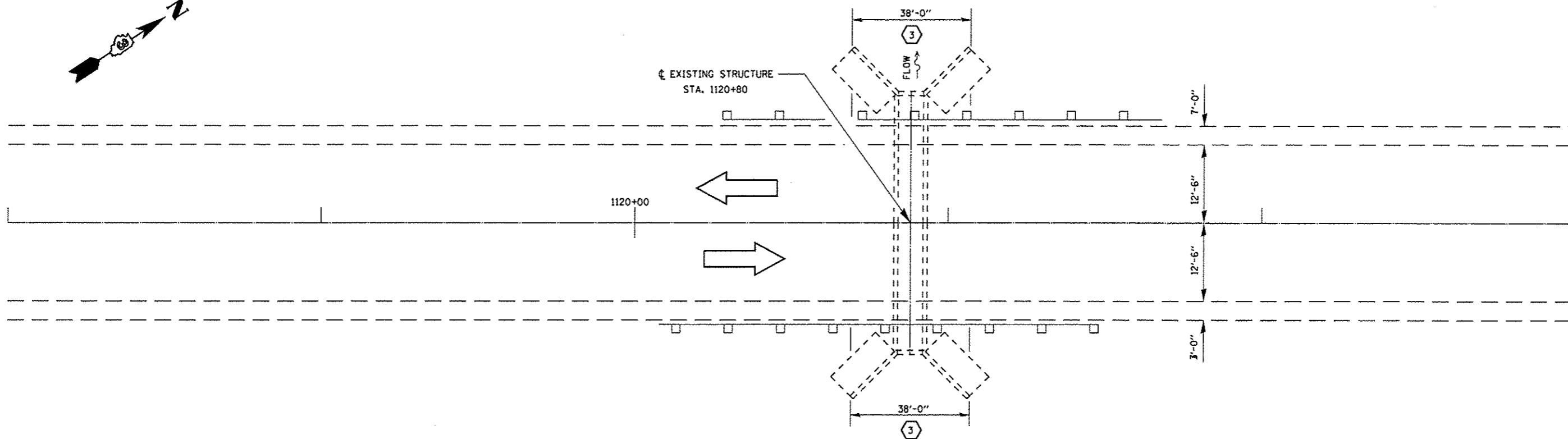
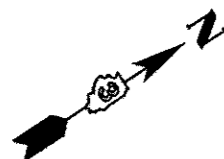
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RECONSTRUCTION DETAILS
FOR LOCATION 2: SN 050-2567

SCALE: SHEET 5 OF 6 SHEETS STA. 462+40

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	D3 WW REPAIR 2014-1	*	41	16
* KENDALL & LASALLE		CONTRACT NO. 66C40		
[ILLINOIS] FED. AID PROJECT				

BM #447 - CHISELED "□" IN HEADWALL LT
 STA. 1120+89 Ⓢ 22.09' LT ELEV. 731.287



KEY
 Ⓢ REMOVE EXISTING SPBGR.
 INSTALL LONG-SPAN GUARDRAIL
 OVER CULVERT 12 FT 6 IN.

PLAN
 S.N. 047-2572
 STA. 1120+80
 7' X 4'
 R.C. BOX CULVERT
 NO SKEW

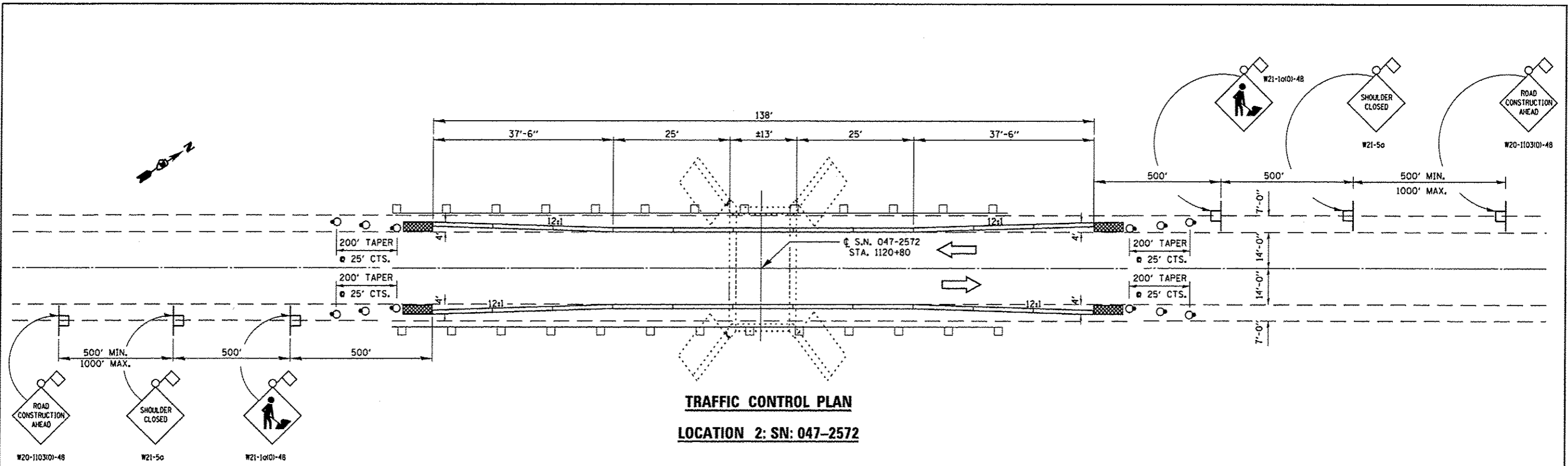
FILE NAME *	USER NAME * patel,jj	DESIGNED - RS	REVISED -
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	PLOT SCALE = 100.0000 ' / 1"	CHECKED - RW	REVISED -
	PLOT DATE = 4/3/2013	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

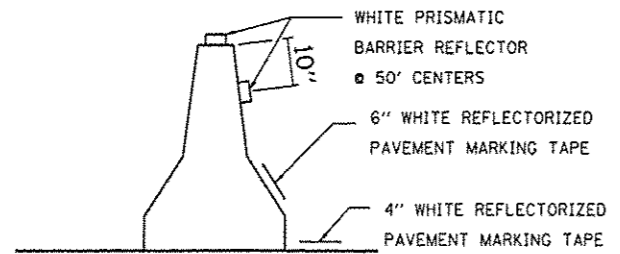
GENERAL ROADWAY PLAN
FOR LOCATION 3: SN 047-2572

SCALE: SHEET 1 OF 6 SHEETS STA. 1120+80

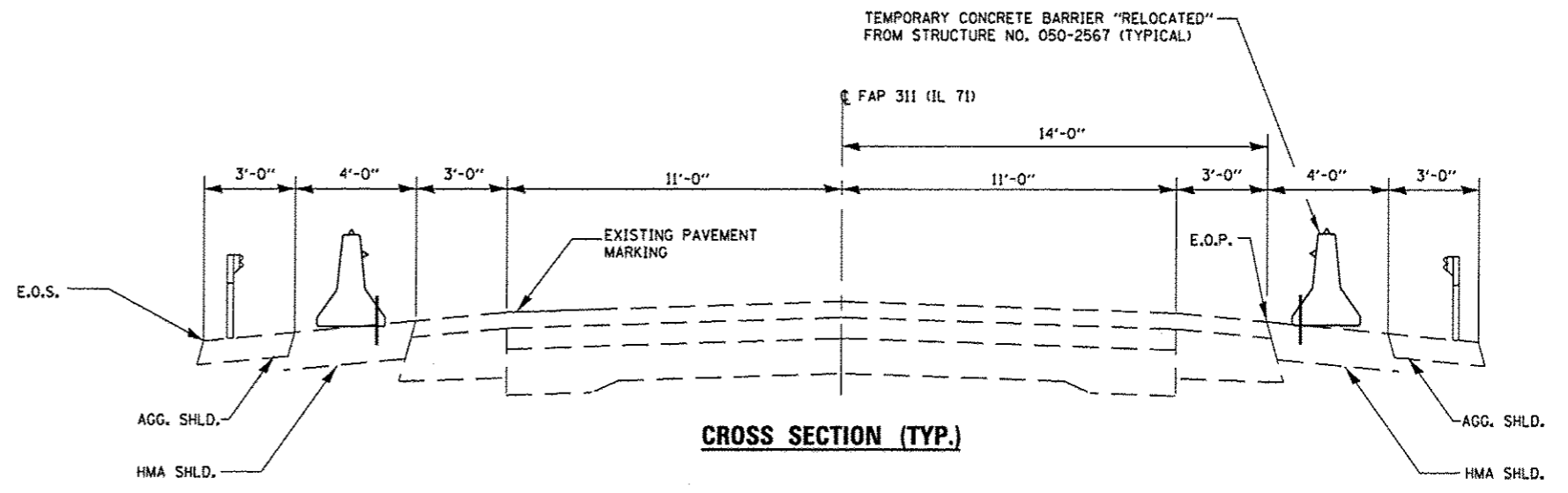
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	D3 WW REPAIR 2014-1	*	41	18
*KENDALL & LASALLE			CONTRACT NO. 66C40	
[ILLINOIS] FED. AID PROJECT				



TRAFFIC CONTROL PLAN
LOCATION 2: SN: 047-2572



TEMPORARY CONCRETE BARRIER WALL DETAILS



CROSS SECTION (TYP.)

SYMBOLS

- WORK AREA
- SIGN
- TYPE III BARRICADE
- TRAFFIC SIGNAL W/ BACK PLATE
- IMPACT ATTENUATOR
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- DOUBLE VERTICAL PANEL (SEE DETAIL)
- CRYSTAL BIDIRECTIONAL BARRIER WALL/GUARDRAIL MARKER

NOTES:
 TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO STANDARD 704001
 THIS DETAIL IS TO BE USED IN CONJUNCTION WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701201

BILL OF MATERIAL

ITEM	UNIT	TOTAL
RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	276
IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4

GENERAL NOTES

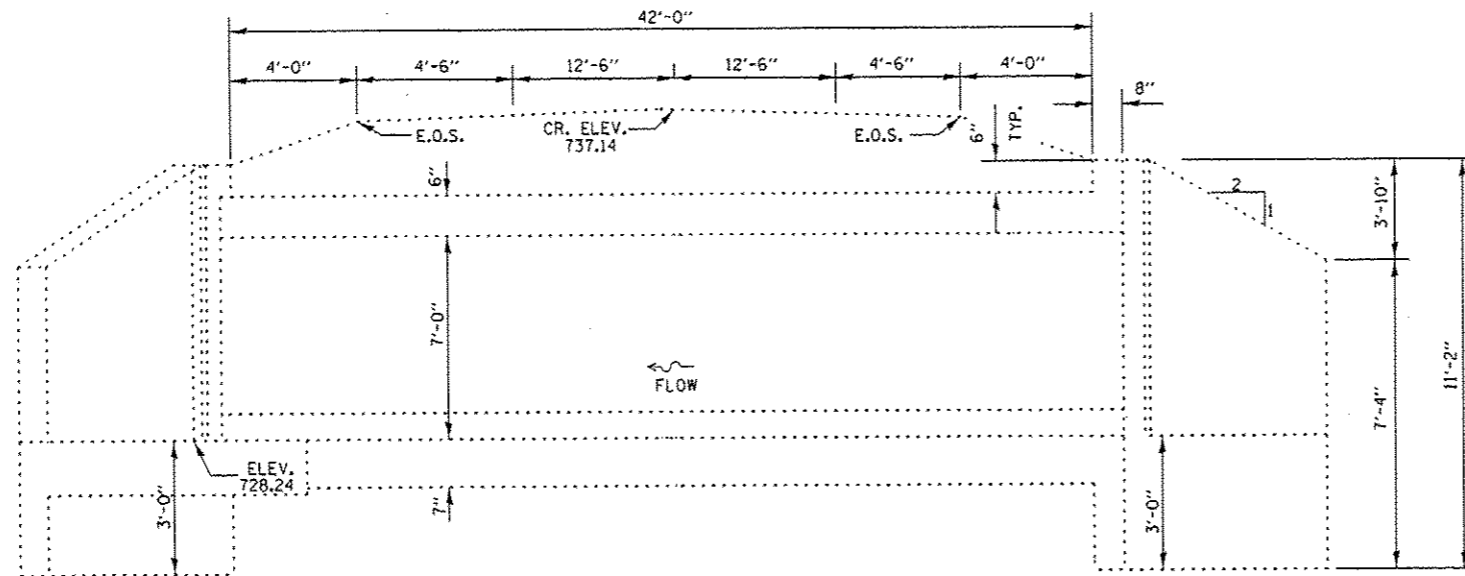
EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED

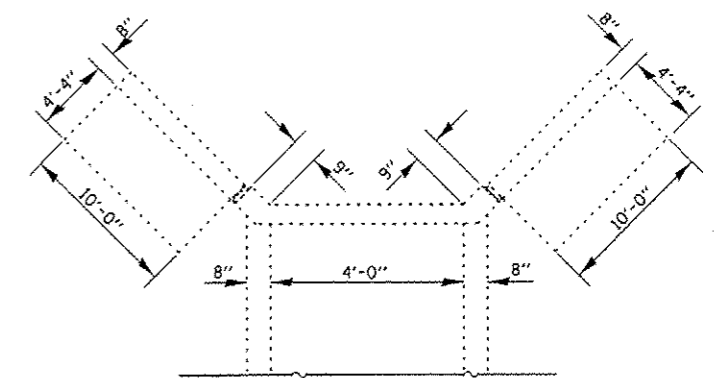
WATERPROOFING MEMBRANE SHALL BE APPLIED TO THE DESIGNATED AREAS ON THE BACKSIDE OF THE WINGWALL AS DETAILED

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK; HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

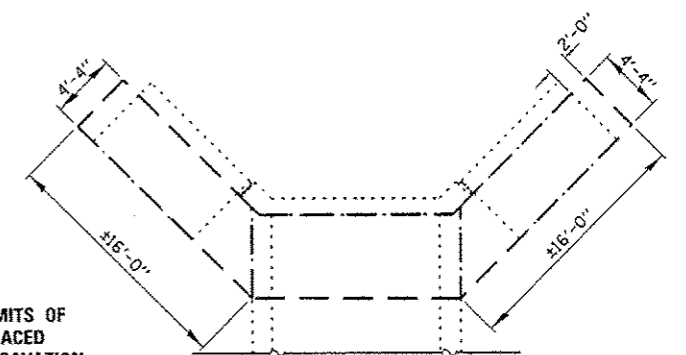
SUITABLE EXISTING SOIL SHALL BE EXCAVATED, STOCKPILED, AND REUSED FOR THE VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES OF THE FINISHED EARTHWORK. THE WORK SHALL BE PAID FOR AS TOPSOIL EXCAVATION AND PLACEMENT.



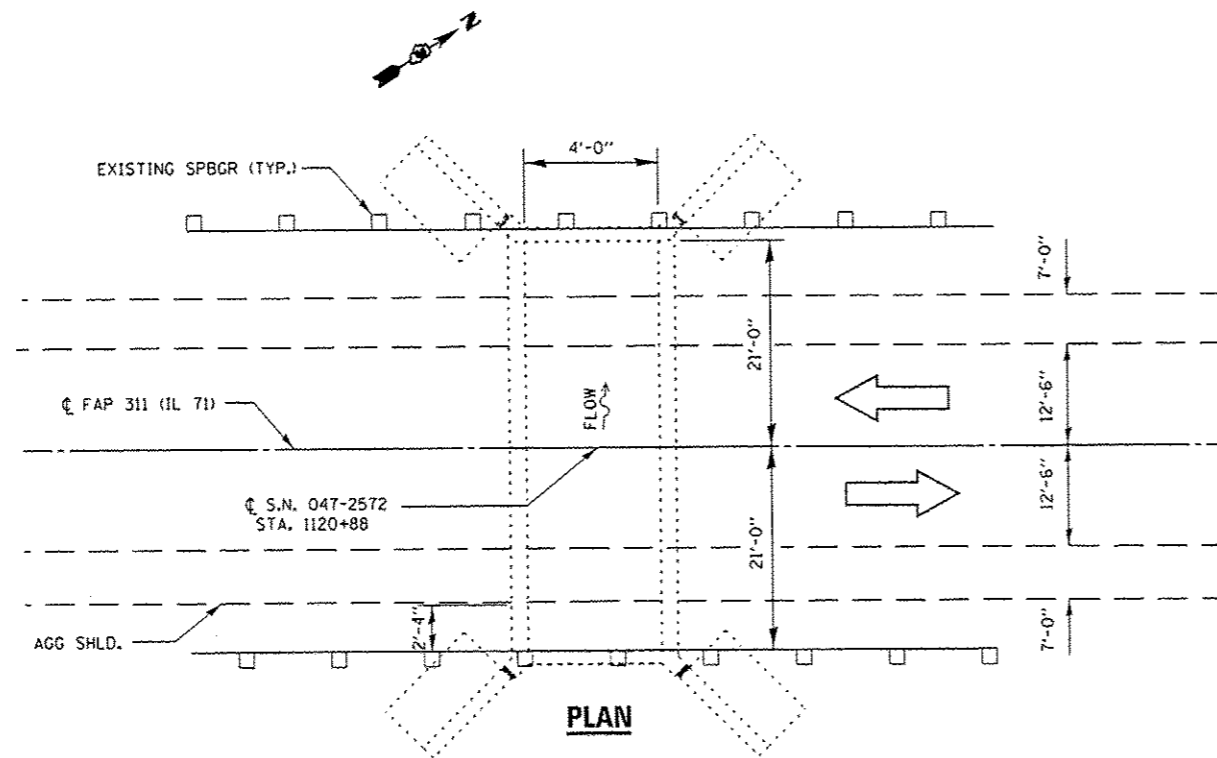
ELEVATION



PLAN
SHOWING BOX CULVERT DIMENSIONS



PLAN
SHOWING EXCAVATION DIMENSIONS



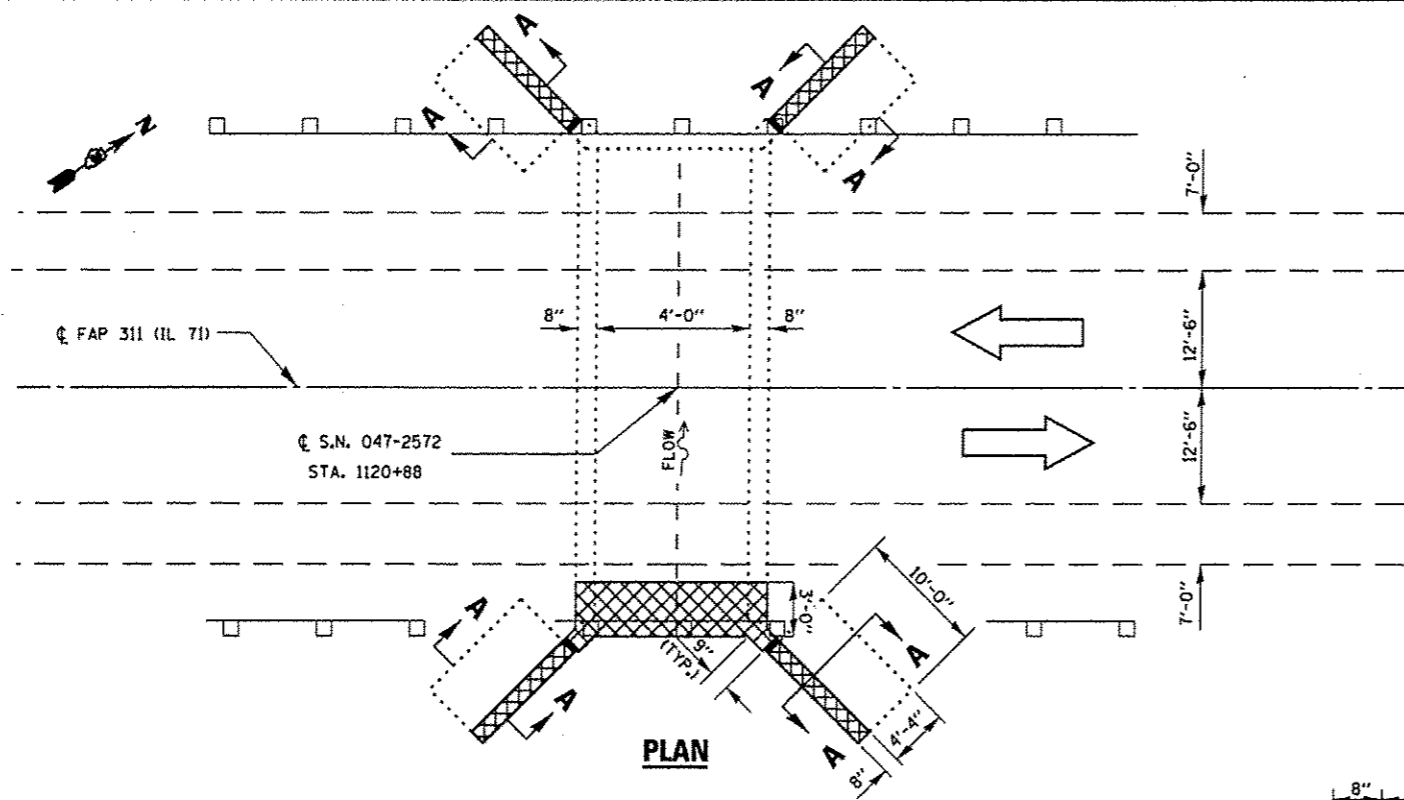
PLAN



David Carl Puzey 5/9/13
Expires 11/30/14

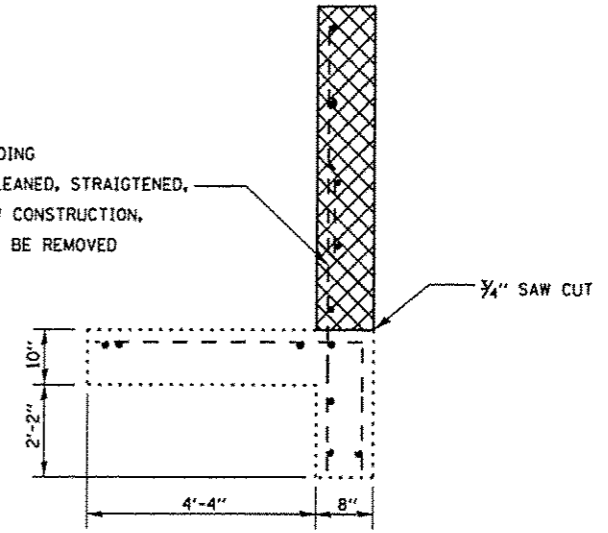
TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
PERIMETER EROSION BARRIER	FOOT	200
TOPSOIL EXCAVATION AND PLACEMENT	CU YD	9
BRACED EXCAVATION	CU YD	66
CONCRETE REMOVAL	CU YD	8.5
CONCRETE BOX CULVERTS	CU YD	8.5
REINFORCEMENT BARS (EPOXY COATED)	POUND	720
SHEET WATERPROOFING MEMBRANE SYSTEM	SQ YD	13
HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	265

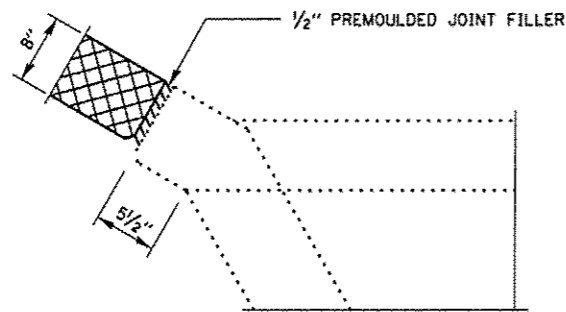


PLAN

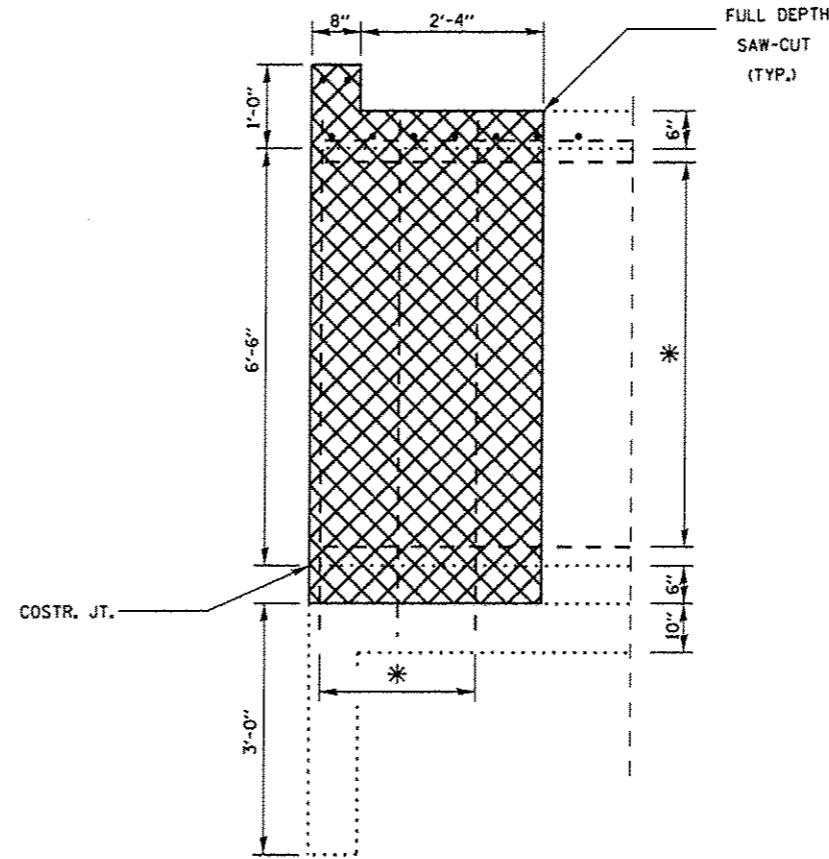
EXISTING VERTICAL REBAR EXTENDING INTO REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED, AND INCORPORATED INTO THE NEW CONSTRUCTION, ALL OTHER REINFORCEMENT SHALL BE REMOVED



SECTION A-A



CORNER DETAIL (TYPICAL)



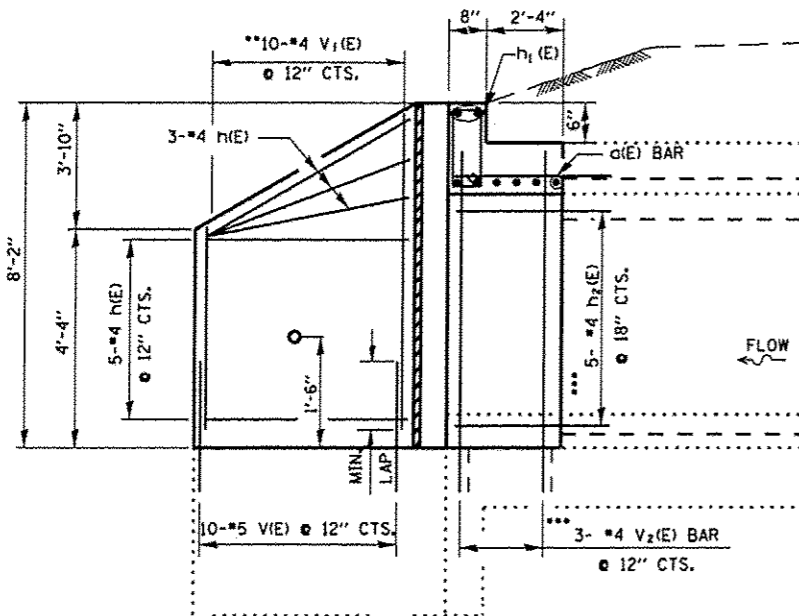
HEADWALL / BARREL REMOVAL DETAIL

* EXIST. REINFORCEMENT BARS IN BARREL SHALL BE CUT OFF FLUSH WITH REMAINING CONCRETE FACE

CONCRETE REMOVAL

BILL OF MATERIAL

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	8.5

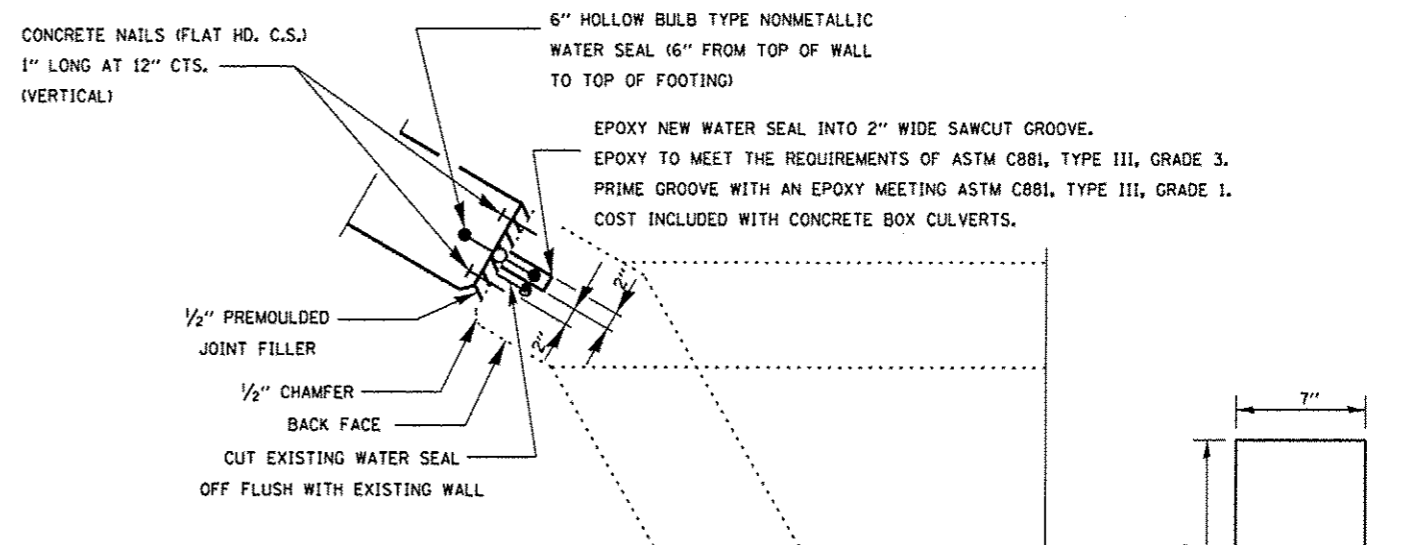


HALF ELEVATION

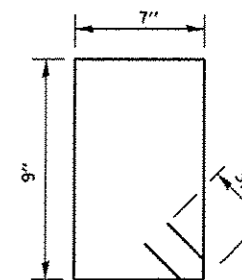
LAP LENGTH

BAR SIZE TO BE SPLICED	MIN. LAP LENGTH
#3	2'-1"
#4	2'-1"
#5	2'-7"
#6	3'-1"

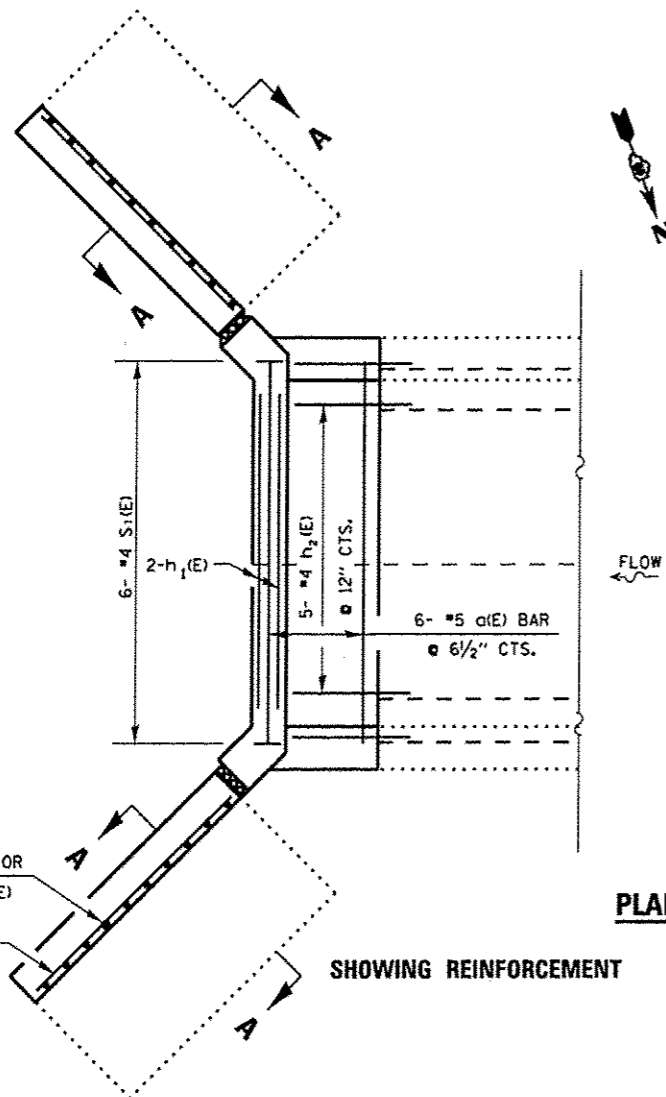
** ORDER V₁(E) BAR FULL LENGTH AND CUT TO FIT SKEW
 *** h₂(E) SHALL BE DRILLED AND EPOXY GROUTED 9" MIN.
 INTO EXISTING FACE OF CONCRETE. V₂(E) SHALL BE
 DRILLED AND EPOXY GROUTED 5" INTO BOTTOM SLAB.



CORNER DETAIL



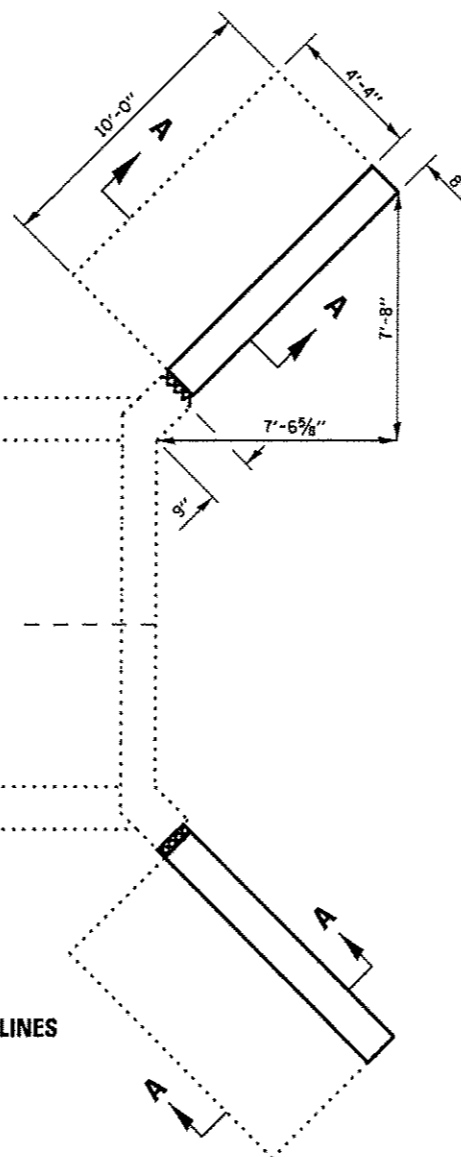
**S₁ BAR
DOWNSTREAM**



PLAN

SHOWING REINFORCEMENT

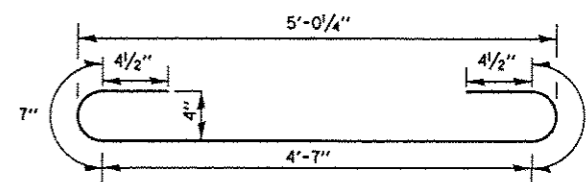
SHOWING OUTLINES



SECTION A-A

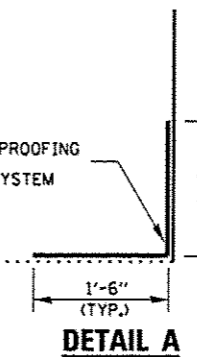
* DRILL AND GROUT #5 V₁(E) BAR INTO EXISTING FOOTING AT SPECIFIED SPACING AND DEPTH IN ACCORDANCE WITH ART. 584 OF THE STANDARD SPECS.

SHEET WATERPROOFING MEMBRANE SYSTEM (SEE DETAIL A)



a(E) BAR

SHEET WATERPROOFING MEMBRANE SYSTEM



DETAIL A

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	6	#5	6'-6"	—
h(E)	32	#4	9'-8"	—
h1(E)	2	#5	4'-6"	—
h2(E)	16	#4	3'-6"	—
s1(E)	6	#4	3'-3"	□
v(E)	40	#5	4'-0"	—
v1(E)	40	#4	7'-10"	—
v2(E)	6	#4	7'-9"	—
CONCRETE REMOVAL			CU. YD.	8.5
CONCRETE BOX CULVERTS			CU. YD.	8.5
SHEET WATERPROOFING MEMBRANE SYSTEM			SO. YD.	13.33
REINFORCEMENT BARS, EPOXY COATED			LBS.	720

FILE NAME *	USER NAME = patalyj	DESIGNED - RS	REVISED -
o:\p\work\p\dot\patalyj\d0311733\03660	0-shr-details.dgn	DRAWN - RS	REVISED -
	PLOT SCALE = 100.0000' / in.	CHECKED - RW	REVISED -
	PLOT DATE = 4/3/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RECONSTRUCTION DETAILS
FOR LOCATION 3: SN 047-2572

SCALE: SHEET 5 OF 6 SHEETS STA. 1120+80

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	D3 WW REPAIR 2014-1	*	41	22
*KENDALL & LASALLE			CONTRACT NO. 66C40	
ILLINOIS FED. AID PROJECT				

SOIL BORING LOG

ROUTE IL 71 DESCRIPTION IL 71 over a Stream, 5.6 miles Southwest of IL 47 LOGGED BY Larry Myers

SECTION 2 & 2B LOCATION SW 1/4, SEC. 22, TWP. 36N, RNG. 6E

COUNTY Kendall DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.	DEPTH	BLOW	UNCONSOLIDATED	MATERIAL	SURFACE WATER ELEV.	DEPTH	BLOW	UNCONSOLIDATED	MATERIAL
Station	(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)	(%)
047-2572 (Exist.) 1120+88					724.88				
BORING NO. 1 (S.E. Quad.) Station 1120+74 Offset 18.00ft Rt. Ground Surface Elev. 732.41 ft									
Augered White Shoulder Stone, Brown Silty Clay Loam Till Fill									
	6					6	4.9	12.6	
	8					8	S		
	729.91								
Very Stiff Brown Silty Clay Loam Till Fill									
	3		2.5	21.3		6			
	3	P				7	5.1	14.7	
	3					10	S		
	-5					-25			
	2		2.0	23.6		4			
	3	P				6	5.1	15.3	
	3					10	S		
	725.41								
Stiff Black & Gray Silty Clay									
	2					7			
	2	1.5	28.6			9	4.7	15.8	
	1	P				9	S		
	722.91								
Very Stiff Brown & Gray Silty Clay Loam Till									
	2		2.2	27.8		8			
	3	B				10	5.2	14.6	
	4					12	S		
	720.41								
Hard Brown Silty Clay Loam Till									
	4								
	6	4.1	15.1						
	8	S							
	717.41								
Hard Gray Silty Clay Loam Till									
	5								
	7	4.9	11.7						
	9	S							
	6								
	7	5.1	11.3						
	10	S							
	-20								

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

BBS, form 137 (Rev. 8-99)

SOIL BORING LOG

ROUTE IL 71 DESCRIPTION IL 71 over a Stream, 5.6 miles Southwest of IL 47 LOGGED BY Larry Myers

SECTION 2 & 2B LOCATION SW 1/4, SEC. 22, TWP. 36N, RNG. 6E

COUNTY Kendall DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.	DEPTH	BLOW	UNCONSOLIDATED	MATERIAL	SURFACE WATER ELEV.	DEPTH	BLOW	UNCONSOLIDATED	MATERIAL
Station	(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)	(%)
047-2572 (Exist.) 1120+88					724.26				
BORING NO. 2 (N.W. Quad.) Station 1121+03 Offset 18.00ft Lt. Ground Surface Elev. 732.19 ft									
Augered White Shoulder Stone, Brown Silty Clay Loam Fill									
	6					6	4.9	12.1	
	7					7	S		
	9					9	S		
	729.69								
Stiff Brown Silty Clay Loam Till Fill									
	3					8			
	2	1.5	20.5			8	5.1	12.7	
	2	P				8	S		
	-5					-25			
	2					7			
	1	1.5	25.3			9	4.9	12.7	
	2	P				9	S		
	725.19								
Stiff Black Silty Clay Loam Topsoil									
	2					9			
	2	1.5	27.3			7	4.7	14.7	
	2	P				9	S		
	722.69								
Very Stiff Brown & Gray Silty Clay Loam Till									
	1					10			
	4	3.5	18.0			10	5.1	16.3	
	5	B				11	S		
	720.19								
Hard Brown Silty Clay Loam Till									
	5								
	6	4.2	15.3						
	8	B							
	715.19								
Hard Gray Silty Clay Loam Till									
	6								
	8	5.4	16.0						
	12	S							
	715.19								
Hard Gray Silty Clay Loam Till									
	5								
	7	4.9	12.7						
	9	S							
	-20								

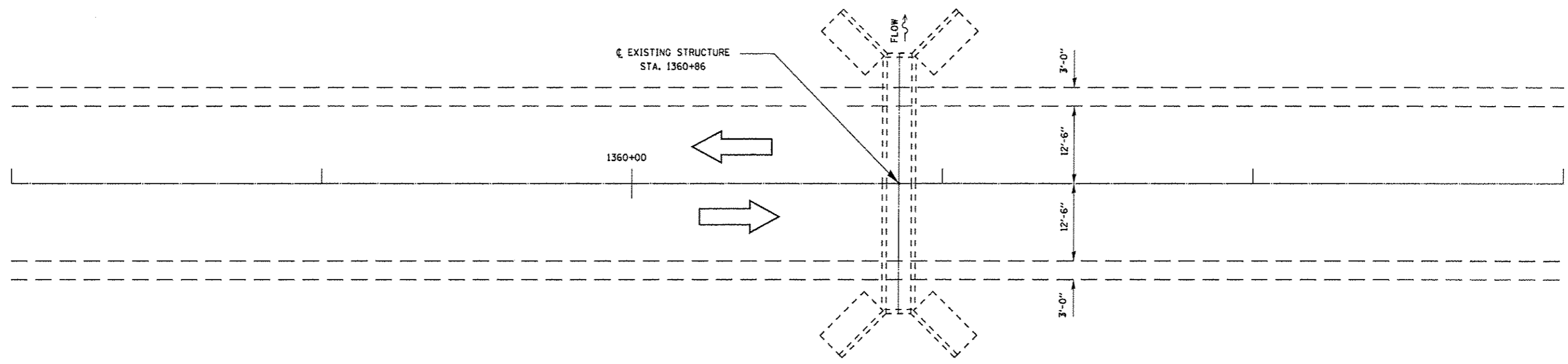
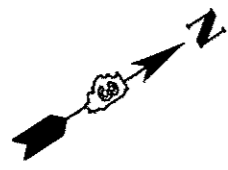
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

FILE NAME *	USER NAME * pete1j	DESIGNED - RS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BORING LOGS FOR LOCATION 3: SN 047-2572	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
oi\p\work\p\dot\pete1j\d0311733\03660	8-shr-detailed.dgn	DRAWN - RS	REVISED -			311	03 WW REPAIR 2014-1	*	41	23
PLOT SCALE * 100.0000' / in.	CHECKED - RW	REVISED -				* KENDALL & LASALLE		CONTRACT NO. 66C40		
PLOT DATE * 4/3/2013	DATE -	REVISED -				SCALE:	SHEET 6 OF 6 SHEETS	STA. 1120+80	ILLINOIS FED. AID PROJECT	

BM #411 - RAIL ROAD SPIKE IN POWER POLE LT
 STA. 1358+13 (S) 49.57' LT ELEV. 741.029

BM #410 - TOP OF RIGHT-OF-WAY MARKER LT
 STA. 1364+08 (S) 61.42' LT ELEV. 744.335



PLAN
 S.N. 047-2524
 STA. 1360+86
 10' X 7'
 R.C. BOX CULVERT
 NO SKEW

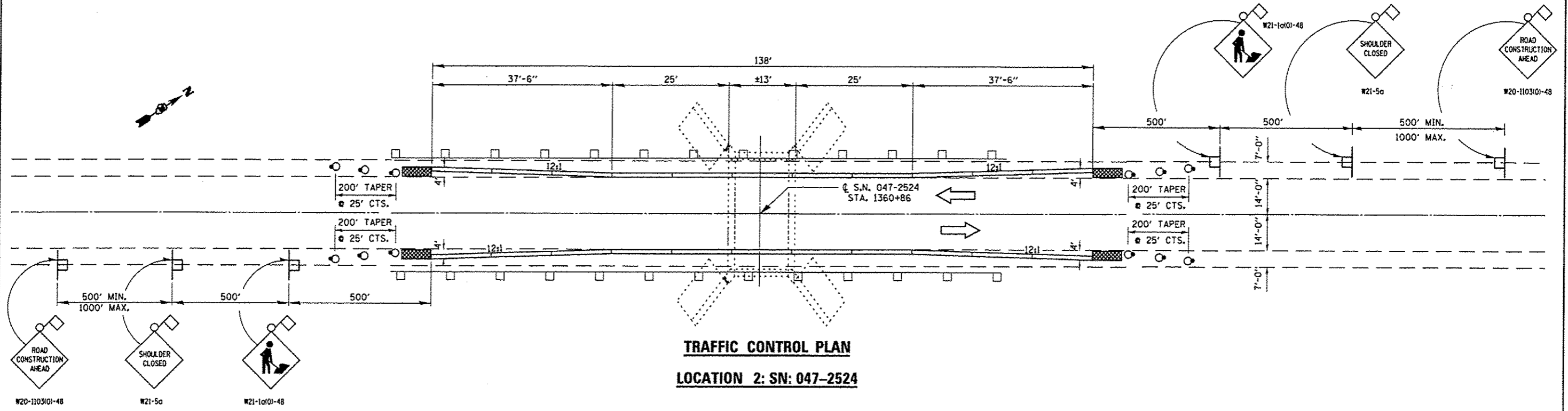
FILE NAME *	USER NAME # potelyj	DESIGNED - RS	REVISED -
c:\pwork\psidot\potelyj\d0311733\03660	0-shr-detail.dgn	DRAWN - RS	REVISED -
	PLOT SCALE * 100.0000' / in.	CHECKED - RW	REVISED -
	PLOT DATE * 4/3/2013	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

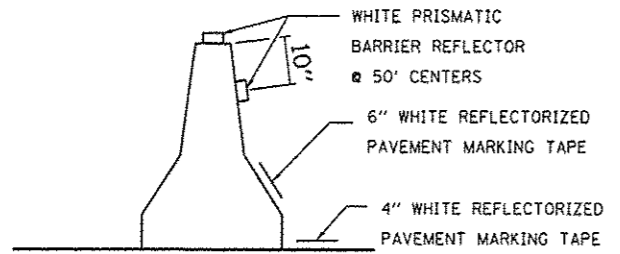
**GENERAL ROADWAY PLAN
 FOR LOCATION 4: SN 047-2524**

SCALE: SHEET 1 OF 6 SHEETS STA. 1360+86

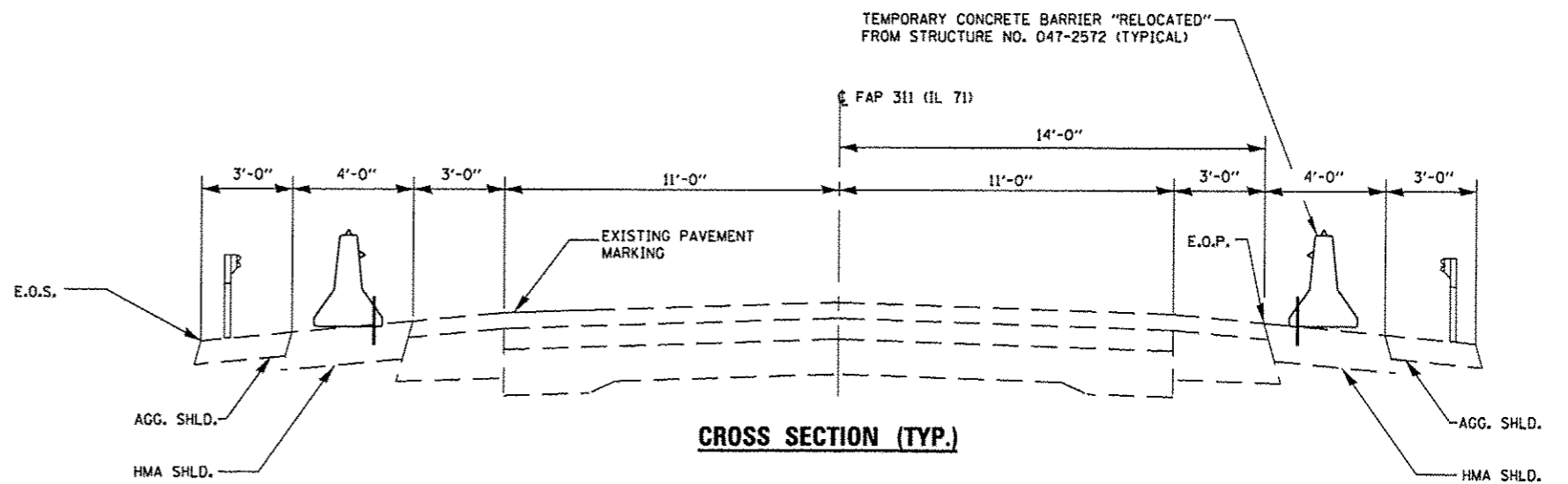
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	DJ WW REPAIR 2014-1	*	41	24
*KENDALL & LASALLE			CONTRACT NO. 66C40	
ILLINOIS FED. AID PROJECT				



TRAFFIC CONTROL PLAN
LOCATION 2: SN: 047-2524



TEMPORARY CONCRETE BARRIER WALL DETAILS



CROSS SECTION (TYP.)

SYMBOLS

- WORK AREA
- SIGN
- TYPE III BARRICADE
- TRAFFIC SIGNAL W/ BACK PLATE
- IMPACT ATTENUATOR
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- DOUBLE VERTICAL PANEL (SEE DETAIL)
- CRYSTAL BIDIRECTIONAL BARRIER WALL/GUARDRAIL MARKER

NOTES:
 TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO STANDARD 704001
 THIS DETAIL IS TO BE USED IN CONJUNCTION WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701201

BILL OF MATERIAL

ITEM	UNIT	TOTAL
RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	276
IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4

GENERAL NOTES

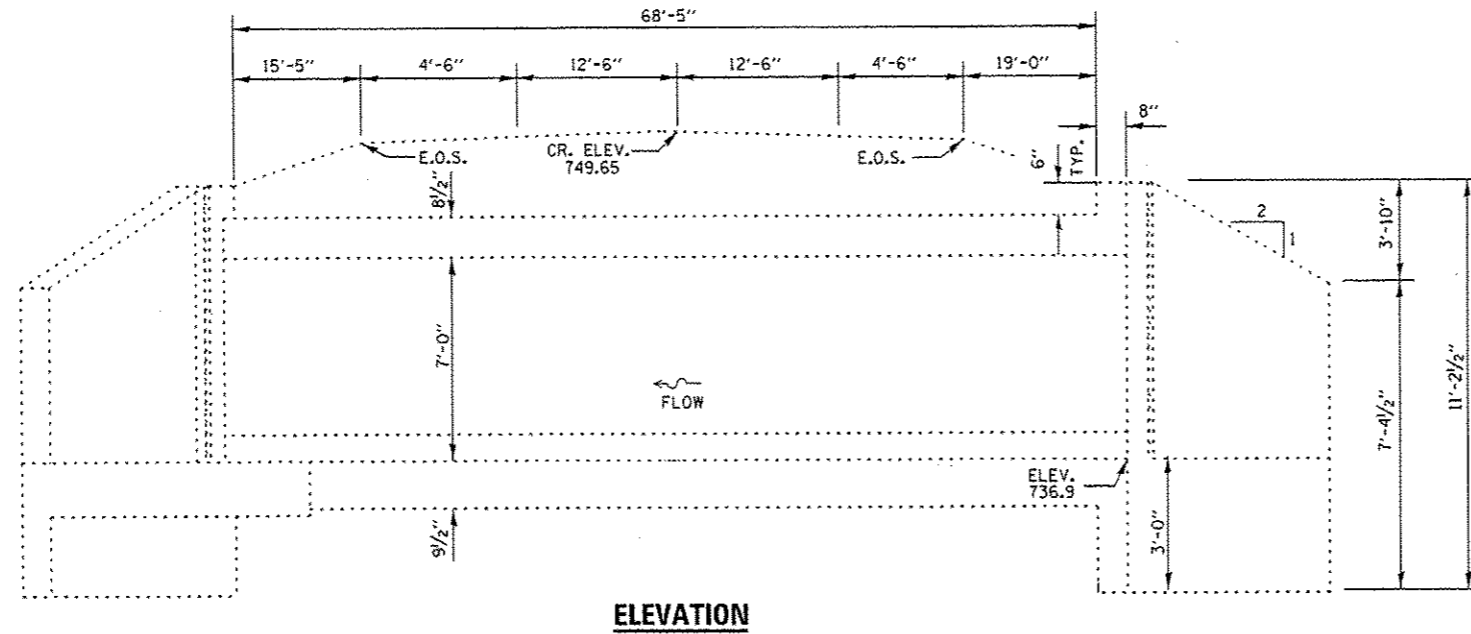
EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED

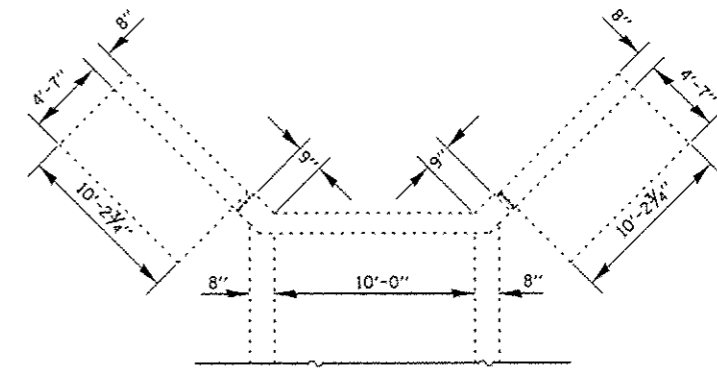
WATERPROOFING MEMBRANE SHALL BE APPLIED TO THE DESIGNATED AREAS ON THE BACKSIDE OF THE WINGWALL AS DETAILED

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK; HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

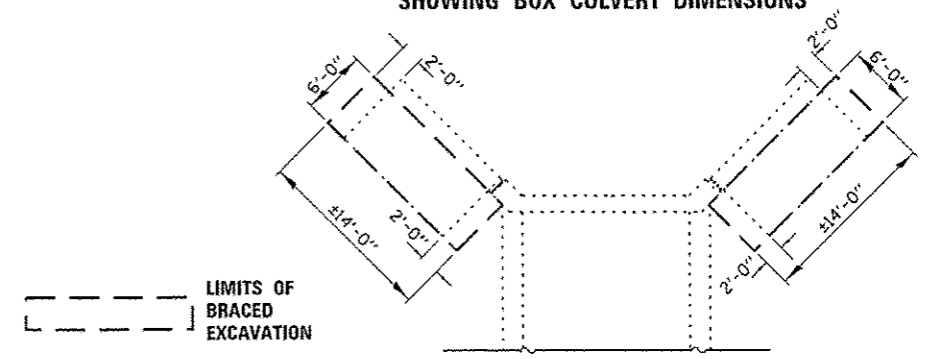
SUITABLE EXISTING SOIL SHALL BE EXCAVATED, STOCKPILED, AND REUSED FOR THE VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES OF THE FINISHED EARTHWORK. THE WORK SHALL BE PAID FOR AS TOPSOIL EXCAVATION AND PLACEMENT.



ELEVATION

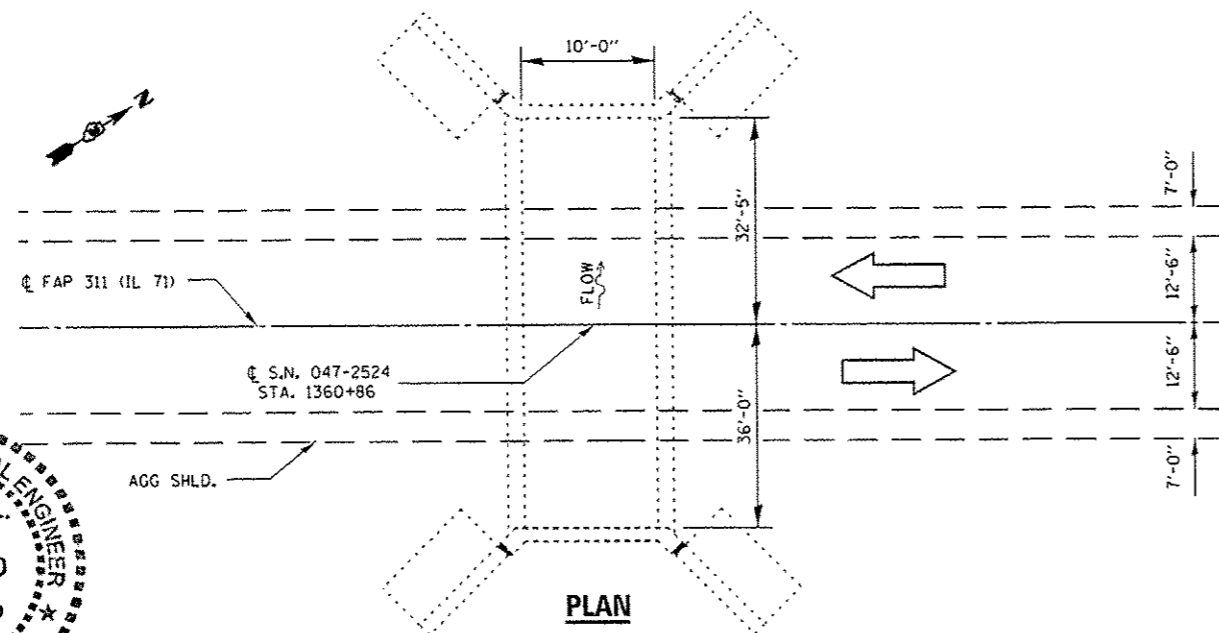


PLAN
SHOWING BOX CULVERT DIMENSIONS



PLAN
SHOWING EXCAVATION DIMENSIONS

--- LIMITS OF BRACED EXCAVATION



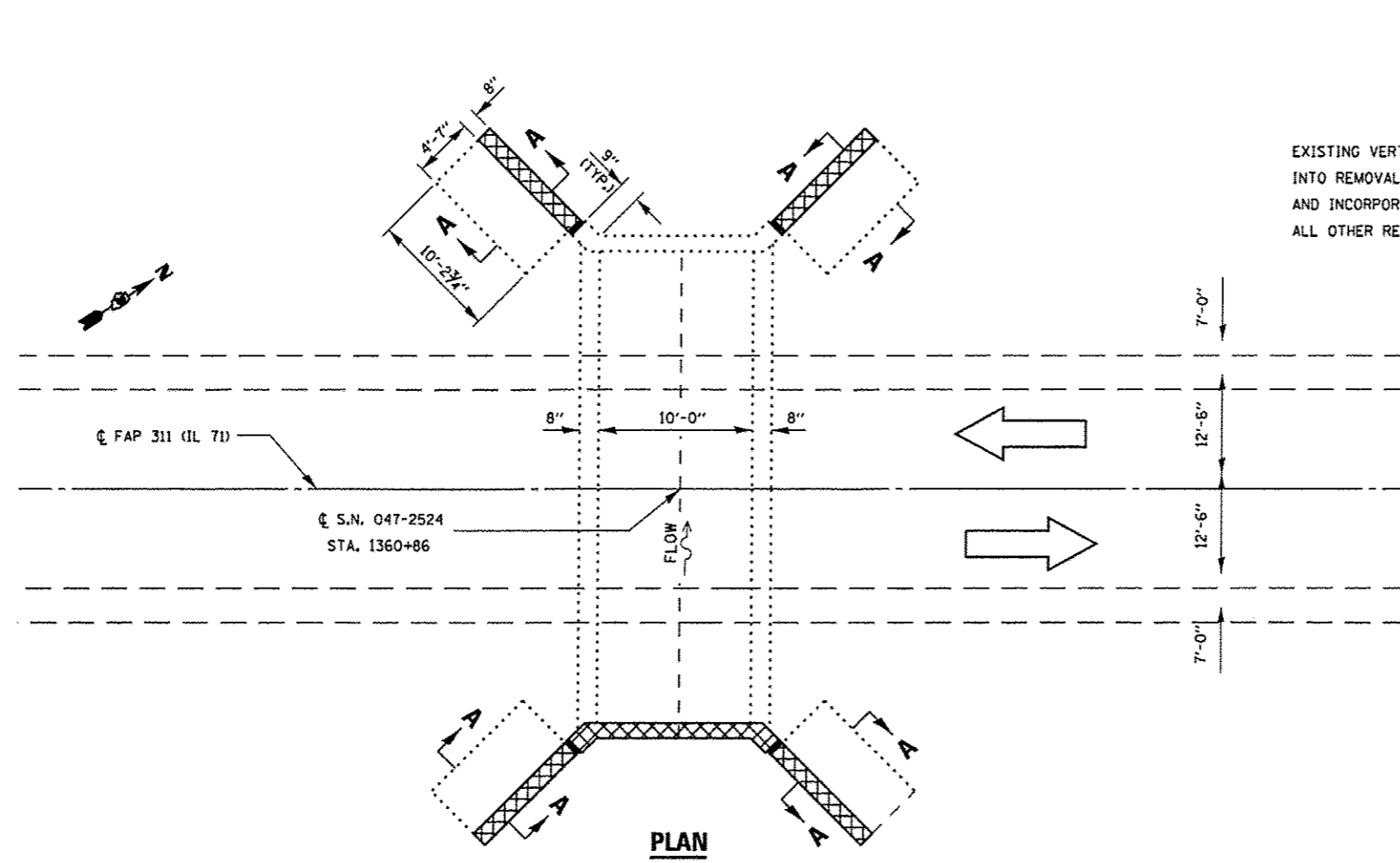
PLAN

TOTAL BILL OF MATERIAL

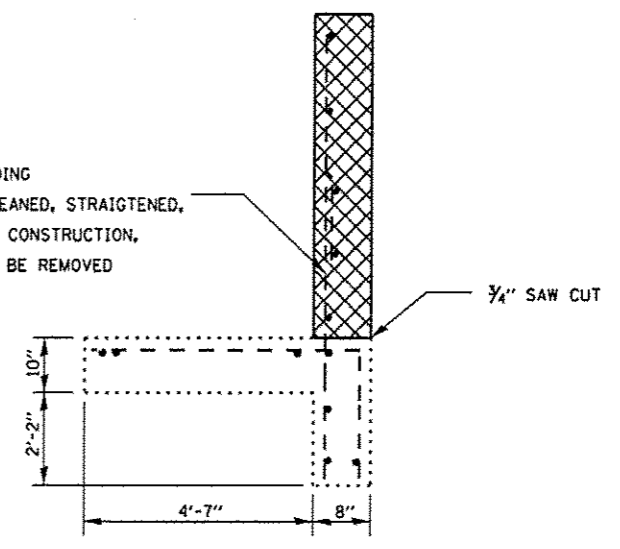
ITEM	UNIT	TOTAL
PERIMETER EROSION BARRIER	FOOT	200
TOPSOIL EXCAVATION AND PLACEMENT	CU YD	9
BRACED EXCAVATION	CU YD	78
CONCRETE REMOVAL	CU YD	7
CONCRETE BOX CULVERTS	CU YD	7
REINFORCEMENT BARS (EPOXY COATED)	POUND	880
SHEET WATERPROOFING MEMBRANE SYSTEM	SQ YD	13.7
HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	265



David Carl Puzey 5/9/13
Expires 11/30/14

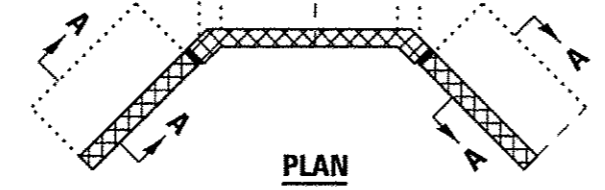


EXISTING VERTICAL REBAR EXTENDING INTO REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED, AND INCORPORATED INTO THE NEW CONSTRUCTION, ALL OTHER REINFORCEMENT SHALL BE REMOVED

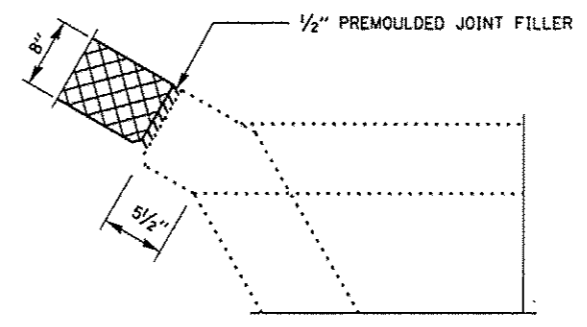


SECTION A-A

CONCRETE REMOVAL



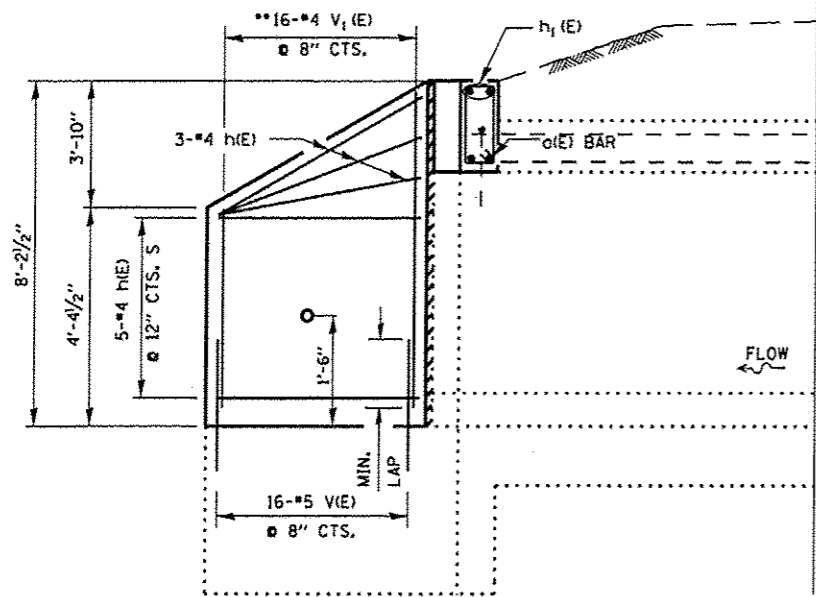
HEADWALL REMOVAL DETAIL



CORNER DETAIL (TYPICAL)

BILL OF MATERIAL

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	7

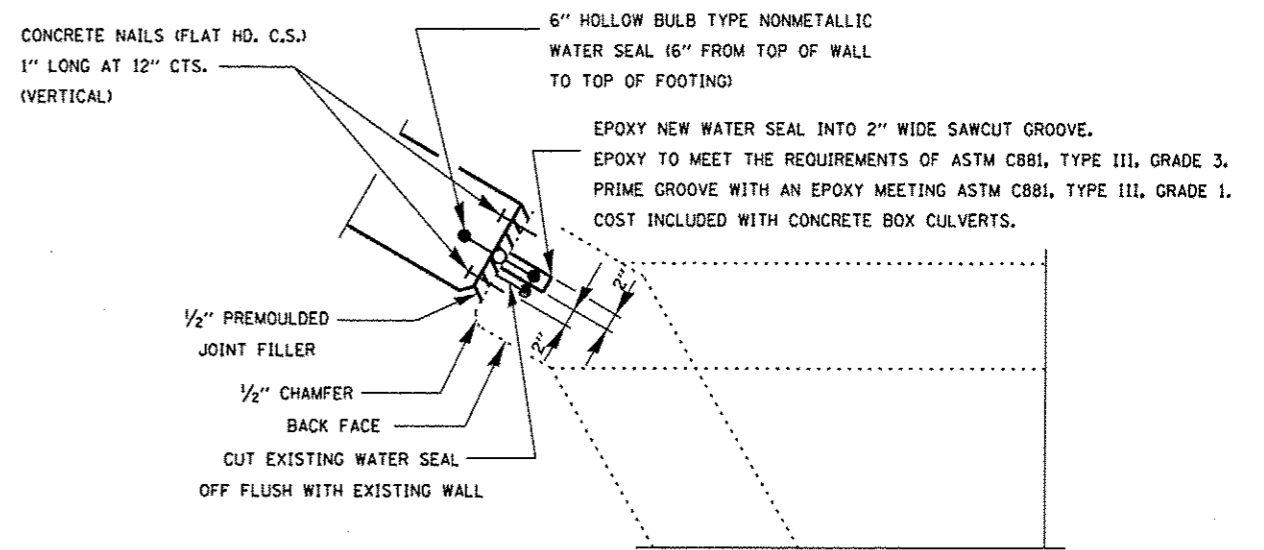


HALF ELEVATION

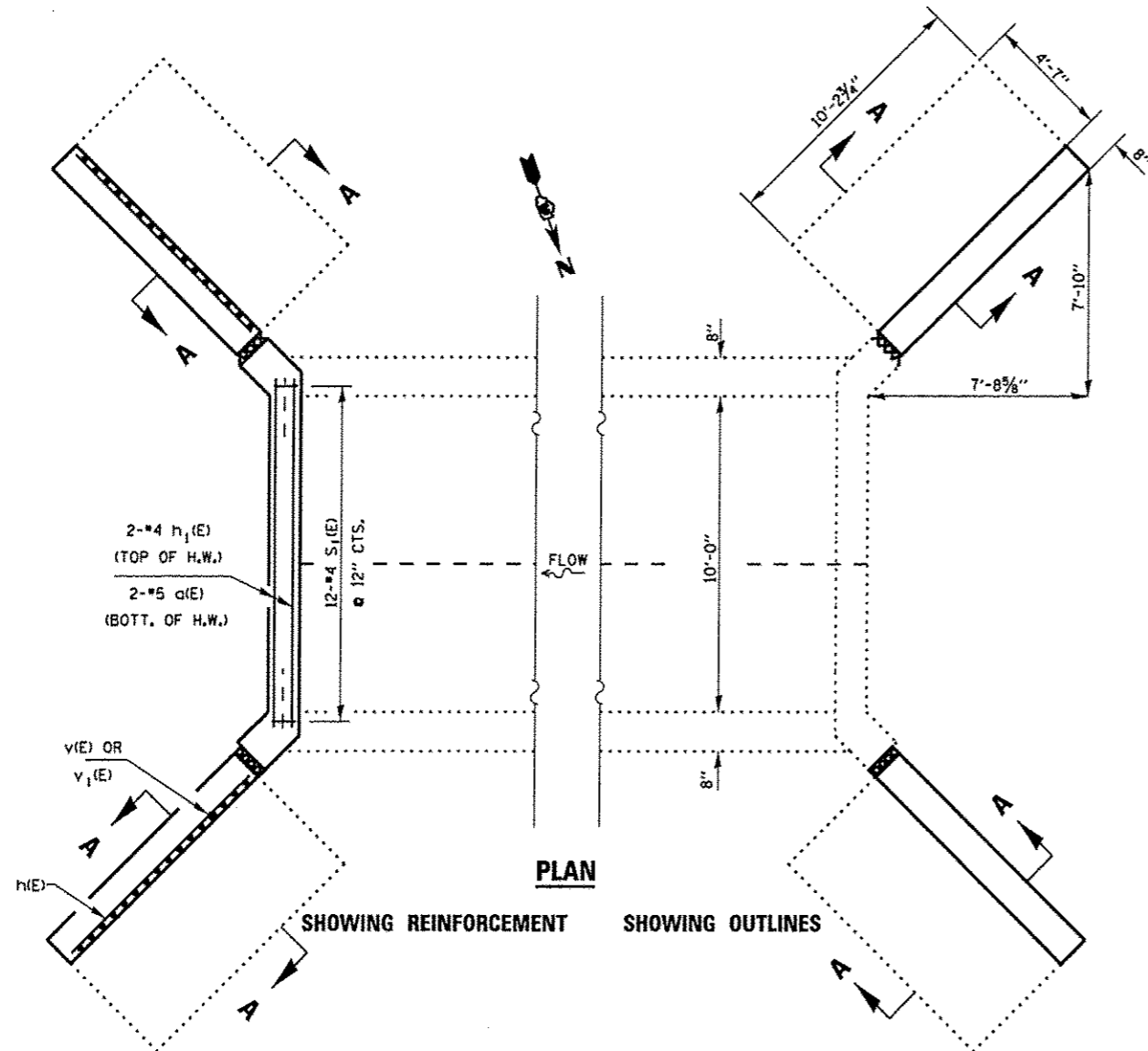
LAP LENGTH

BAR SIZE TO BE SPLICED	MIN. LAP LENGTH
#3	2'-1"
#4	2'-1"
#5	2'-7"
#6	3'-1"

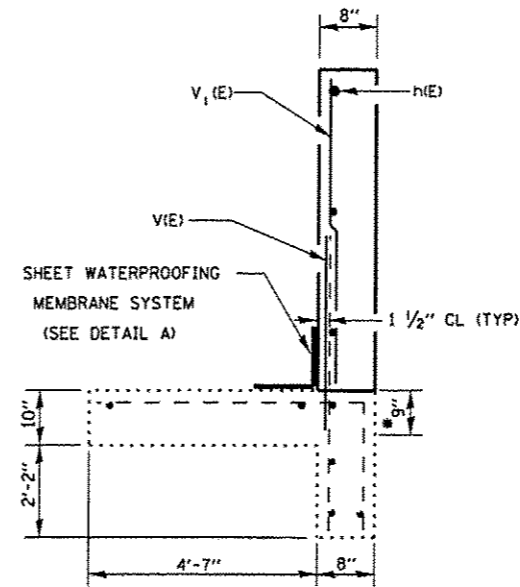
** ORDER V₁(E) BAR FULL LENGTH AND CUT TO FIT SKEW



CORNER DETAIL

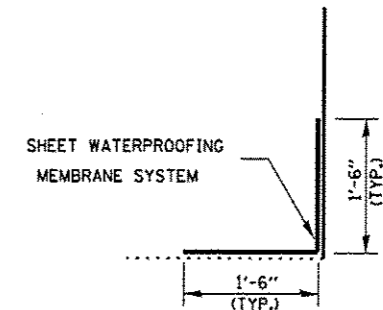


PLAN



SECTION A-A

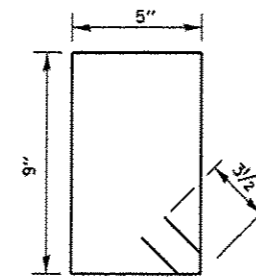
* DRILL AND GROUT #5 V₁(E) BAR INTO EXISTING FOOTING AT SPECIFIED SPACING AND DEPTH IN ACCORDANCE WITH ART. 584 OF THE STANDARD SPECS.



DETAIL A

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	2	#5	10'-6"	—
h(E)	32	#4	9'-10"	—
h1(E)	2	#4	10'-3"	—
s1(E)	12	#4	2'-11"	□
v(E)	64	#5	4'-0"	—
v1(E)	64	#4	7'-10"	—
CONCRETE REMOVAL			CU. YD.	7.0
CONCRETE BOX CULVERTS			CU. YD.	7.0
SHEET WATERPROOFING MEMBRANE SYSTEM			SQ. YD.	13.7
REINFORCEMENT BARS, EPOXY COATED			LBS.	880



**S₁ BAR
DOWNSTREAM**

FILE NAME *	USER NAME * pntalyj	DESIGNED - RS	REVISED -
0:\pwork\pntdot\pntalyj\d0311733\03660	0-sht-details.dgn	DRAWN - RS	REVISED -
	PLOT SCALE * 1/8"=1'-0"	CHECKED - RW	REVISED -
	PLOT DATE * 4/3/2013	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RECONSTRUCTION DETAILS
FOR LOCATION 4: SN 047-2524**

SCALE: SHEET 5 OF 6 SHEETS STA. 1360+86

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	D3 WW REPAIR 2014-1	*	41	28
*KENDALL & LASALLE			CONTRACT NO. 66C40	
ILLINOIS FED. AID PROJECT				

SOIL BORING LOG

Date 9/20/12

ROUTE IL 71 DESCRIPTION IL 71 over a Stream, 1.1 miles Southwest of IL 47 LOGGED BY Larry Myers

SECTION 2 LOCATION NE 1/4, SEC. 7, TWP. 36N, RNG. 7E

COUNTY Kendall DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. Station	D E P T H	B L O W S	U C S	M O S T	Surface Water Elev. ft	Stream Bed Elev. ft	Groundwater Elev.: First Encounter Upon Completion After Hrs.	D E P T H	B L O W S	U C S	M O S T	Surface Water Elev. ft	Stream Bed Elev. ft	Groundwater Elev.: First Encounter Upon Completion After Hrs.	D E P T H	B L O W S	U C S	M O S T	
																			(ft)
047-2524 (Exst.) 1360+86																			
1 (N.E. Quad.) 1360+97																			
18.00ft Lt. 744.77																			
Augered Shoulder Gravel, Brown & Black Silty Clay Loam Fill																			
742.27																			
Very Stiff to Hard Brown & Gray Silty Clay Loam Till Fill with some Black Silty Clay Loam Fill																			
722.27																			
Stiff Black Silty Clay Loam/Silty Loam with High Organics & Shells - Alluvial Backwater Deposits																			
719.77																			
Stiff Gray Silty Clay, Silty Loam																			
717.77																			
Hard to Very Stiff Black Silty Clay Loam & Gray Silty Clay Loam Till Fill																			
737.77																			
Very Stiff Black Silty Clay Loam Topsoil																			
732.27																			
Very Stiff to Stiff Blueish Gray Silty Clay																			
730.27																			
Soft to Stiff Gray Silty Clay, Clay & Silt Layers																			
727.77																			
wh - weight of hammer																			

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

BBS, form 137 (Rev. 8-99)

SOIL BORING LOG

Date 9/20/12

ROUTE IL 71 DESCRIPTION IL 71 over a Stream, 1.1 miles Southwest of IL 47 LOGGED BY Larry Myers

SECTION 2 LOCATION NE 1/4, SEC. 7, TWP. 36N, RNG. 7E

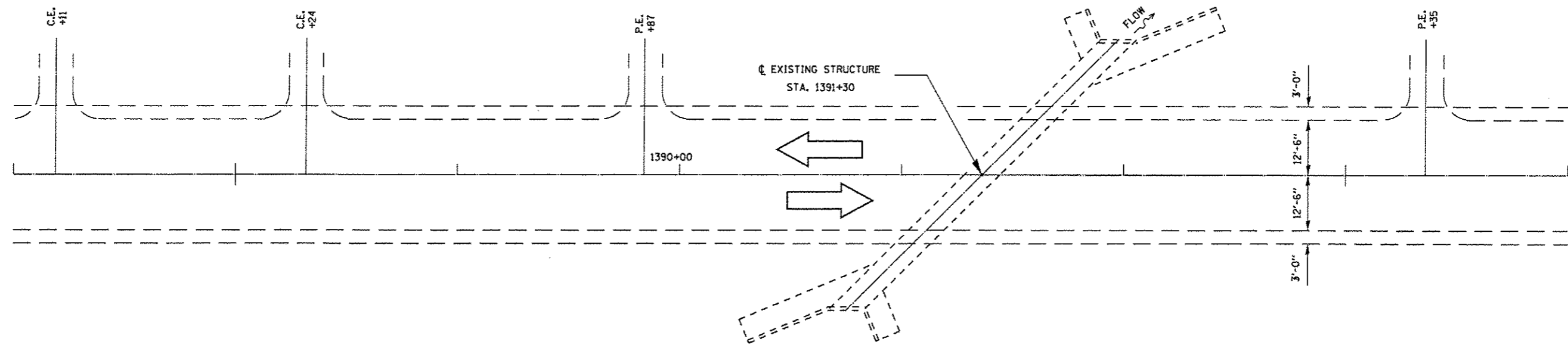
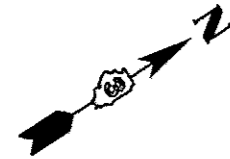
COUNTY Kendall DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. Station	D E P T H	B L O W S	U C S	M O S T	Surface Water Elev. ft	Stream Bed Elev. ft	Groundwater Elev.: First Encounter Upon Completion After Hrs.	D E P T H	B L O W S	U C S	M O S T	Surface Water Elev. ft	Stream Bed Elev. ft	Groundwater Elev.: First Encounter Upon Completion After Hrs.	D E P T H	B L O W S	U C S	M O S T	
																			(ft)
047-2524 (Exst.) 1360+86																			
2 (S.W. Quad.) 1360+68																			
18.00ft Rt. 744.35																			
Augered Shoulder Stone, Brown Silty Clay Loam Fill																			
741.85																			
Very Stiff to Hard Brown Silty Clay Loam Till Fill, Black Silty Clay Loam & Gray Silty Clay Loam Fill																			
719.35																			
Hard Gray Silty Clay Loam Till																			
731.85																			
Very Stiff Gray & Brown Silty Clay																			
729.85																			
Very Stiff Blueish Gray Silty Clay																			
724.85																			
End of Boring																			

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

BBS, form 137 (Rev. 8-99)

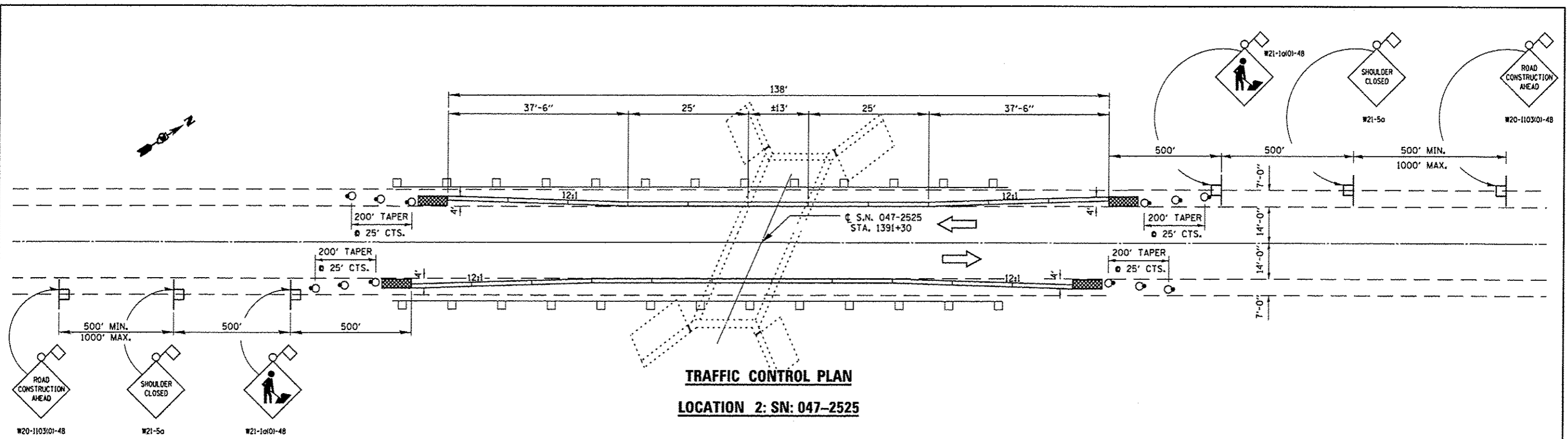
BM *404 - RAIL ROAD SPIKE IN POWER POLE AT WINDCREST FARM, LT
 STA. 1397+82 (S) 52.08' LT ELEV. 725.274



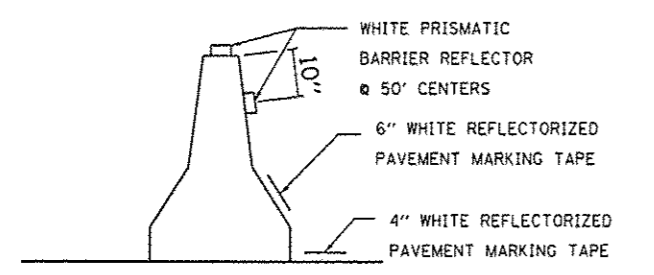
PLAN

S.N. 047-2525
 STA. 1391+30
 8' X 7'
 R.C. BOX CULVERT
 45° SKEW

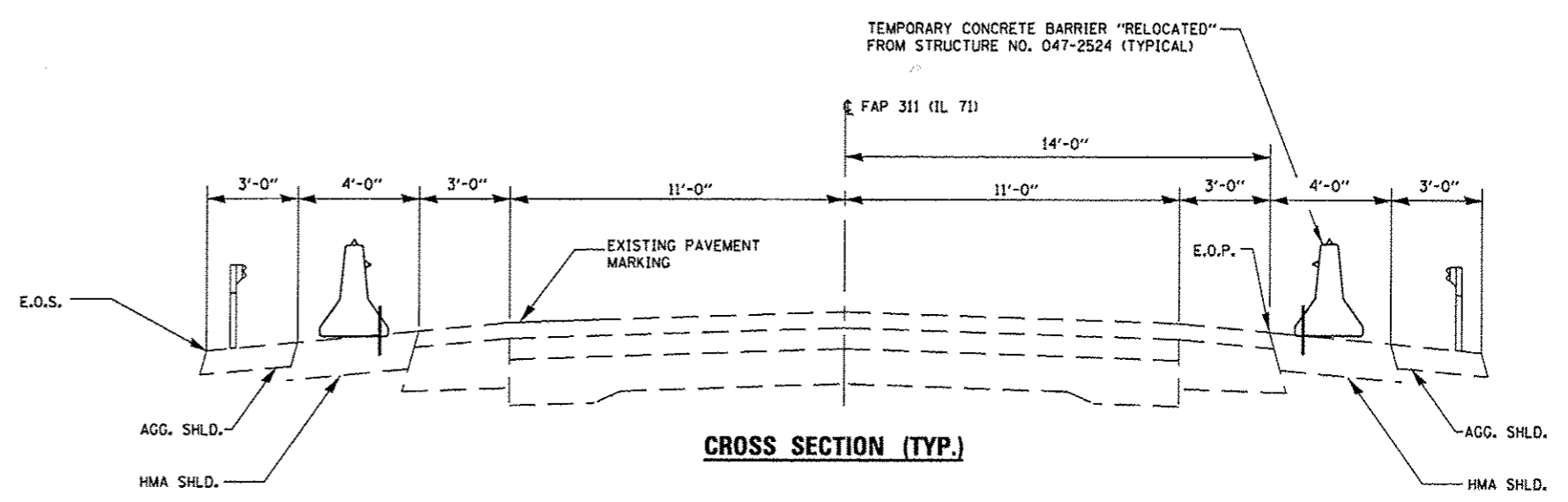
FILE NAME * c:\pwwork\pwwork\petelyj\08311733\03660	USER NAME * petelyj	DESIGNED - RS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL ROADWAY PLAN FOR LOCATION 5: SN 047-2525	F.A.P. RTE. 311	SECTION 03 WW REPAIR 2014-1	COUNTY *	TOTAL SHEETS 41	SHEET NO. 30
	18-shd-detailed.dgn	DRAWN - RS	REVISED -			* KENDALL & LASALLE		CONTRACT NO. 66C40		
PLOT SCALE * 1/8" = 1'-0"	CHECKED - RW	REVISED -	SCALE:		SHEET 1 OF 6 SHEETS	STA. 1391+30	ILLINOIS FED. AID PROJECT			
PLOT DATE * 4/3/2013	DATE -	REVISED -								



TRAFFIC CONTROL PLAN
LOCATION 2: SN: 047-2525



TEMPORARY CONCRETE BARRIER WALL DETAILS



CROSS SECTION (TYP.)

SYMBOLS

- WORK AREA
- SIGN
- TYPE III BARRICADE
- TRAFFIC SIGNAL W/ BACK PLATE
- IMPACT ATTENUATOR
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- DOUBLE VERTICAL PANEL (SEE DETAIL)
- CRYSTAL BIDIRECTIONAL BARRIER WALL/GUARDRAIL MARKER

NOTES:
TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO STANDARD 704001
THIS DETAIL IS TO BE USED IN CONJUNCTION WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701201

BILL OF MATERIAL

ITEM	UNIT	TOTAL
RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	276
IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4

GENERAL NOTES

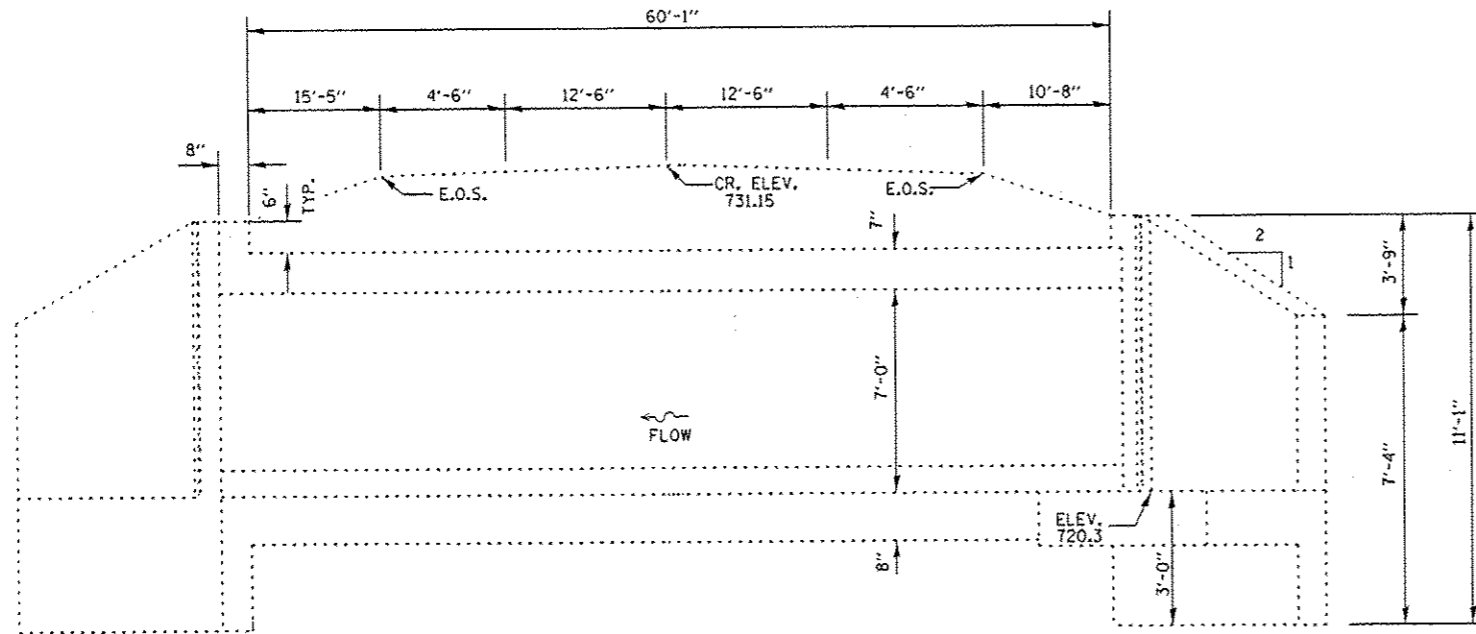
EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED

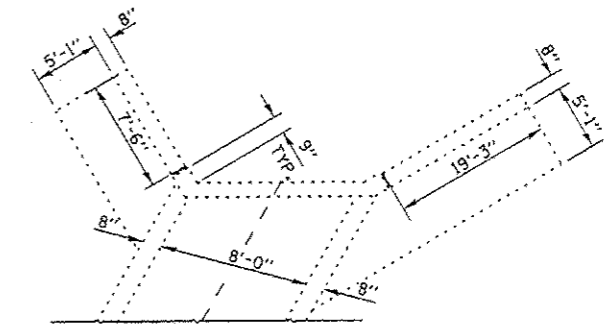
WATERPROOFING MEMBRANE SHALL BE APPLIED TO THE DESIGNATED AREAS ON THE BACKSIDE OF THE WINGWALL AS DETAILED

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK; HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

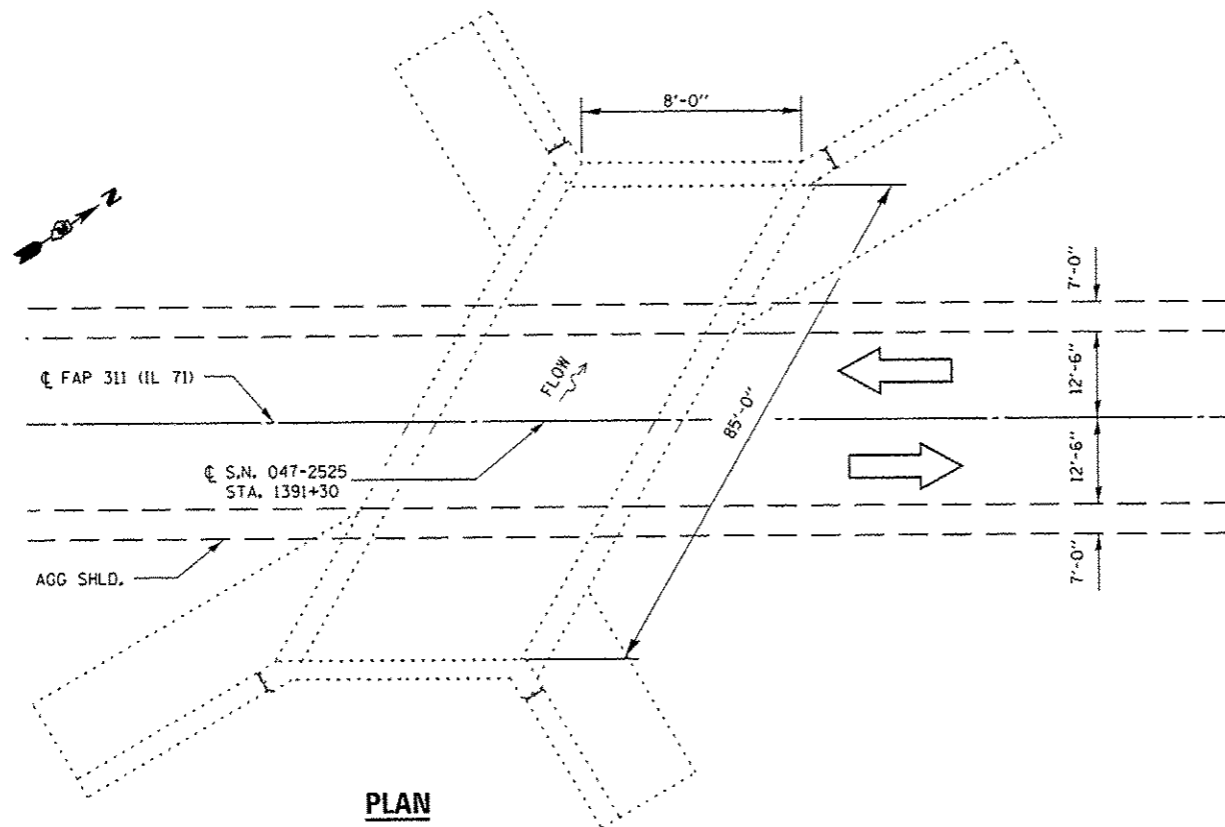
SUITABLE EXISTING SOIL SHALL BE EXCAVATED, STOCKPILED, AND REUSED FOR THE VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES OF THE FINISHED EARTHWORK. THE WORK SHALL BE PAID FOR AS TOPSOIL EXCAVATION AND PLACEMENT.



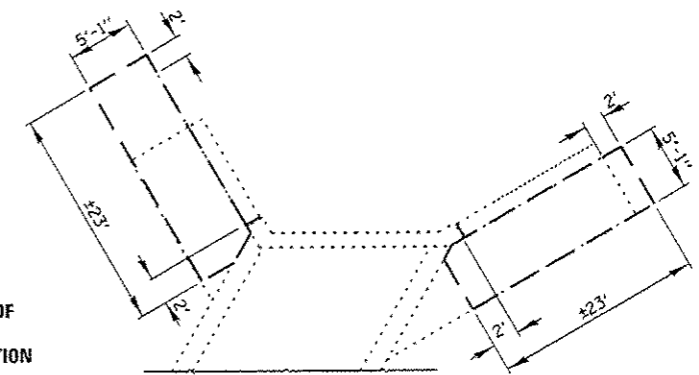
ELEVATION



PLAN
SHOWING BOX CULVERT DIMENSIONS



PLAN



PLAN
SHOWING EXCAVATION DIMENSIONS

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
PERIMETER EROSION BARRIER	FOOT	200
TOPSOIL EXCAVATION AND PLACEMENT	CU YD	11
BRACED EXCAVATION	CU YD	108
CONCRETE REMOVAL	CU YD	8.2
STRUCTURAL REPAIR OF CONCRETE ≤ 5"	SQ FT	10
CONCRETE BOX CULVERTS	CU YD	8.2
REINFORCEMENT BARS (EPOXY COATED)	POUND	1130
SHEET WATERPROOFING MEMBRANE SYSTEM	SQ YD	17.9
HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	280



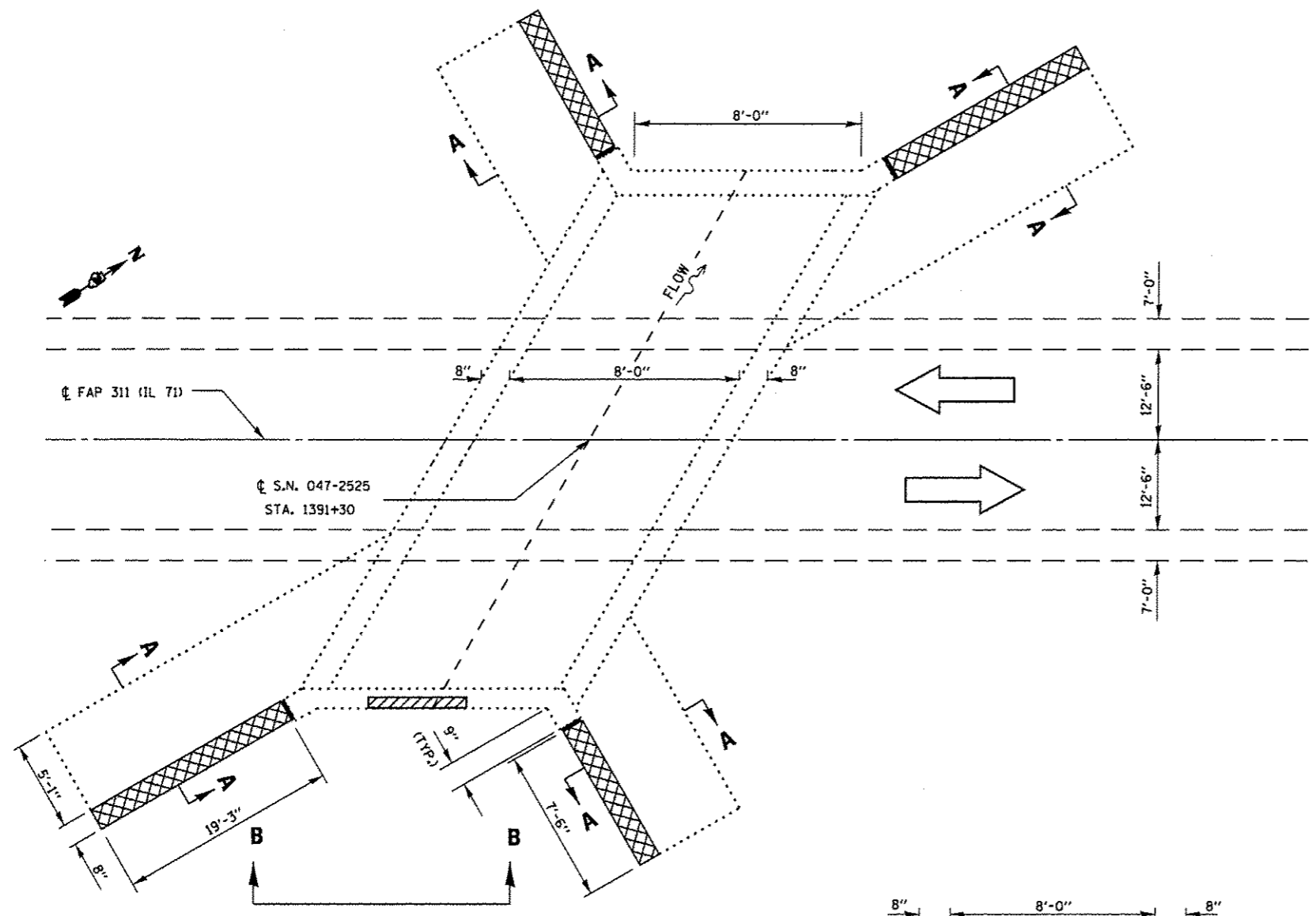
David Carl Puzey 5/9/13
Expires 1/30/14

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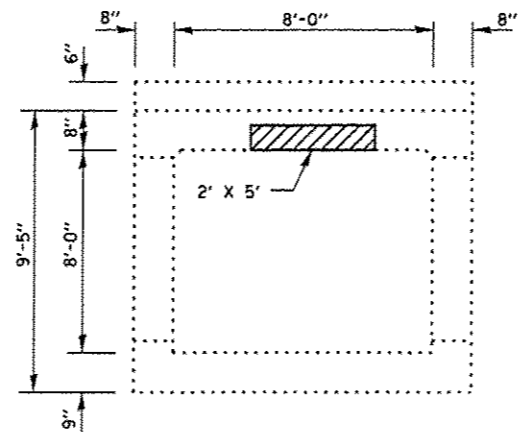
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
DETAILS FOR LOCATION 5: SN 047-2525
SCALE: SHEET 3 OF 6 SHEETS STA. 1391+30

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	D3 WW REPAIR 2014-1		41	32
* KENDALL & LASALLE			CONTRACT NO. 66C40	
ILLINOIS FED. AID PROJECT				

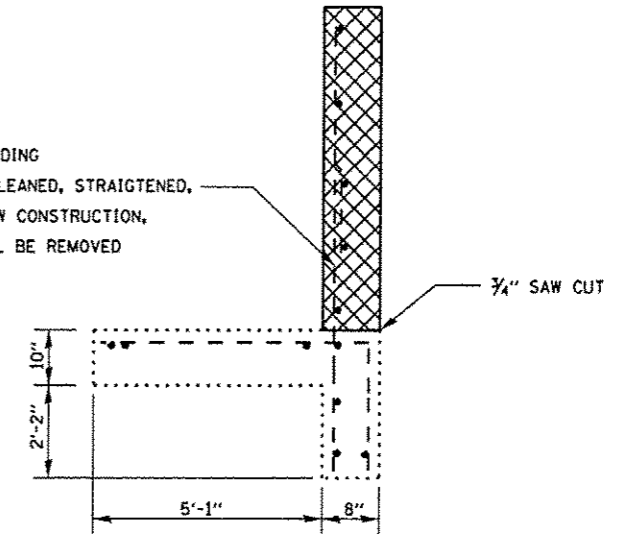


PLAN

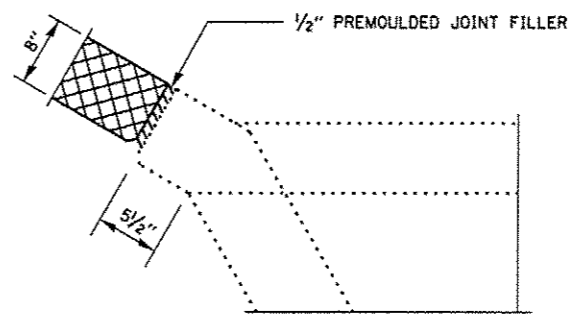
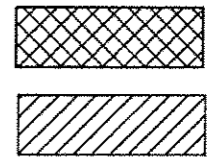


VIEW B-B

EXISTING VERTICAL REBAR EXTENDING INTO REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED, AND INCORPORATED INTO THE NEW CONSTRUCTION, ALL OTHER REINFORCEMENT SHALL BE REMOVED



SECTION A-A



CORNER DETAIL (TYPICAL)

BILL OF MATERIAL

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	8.2
STRUCTURAL REPAIR OF CONCRETE < 5"	SQ FT	10

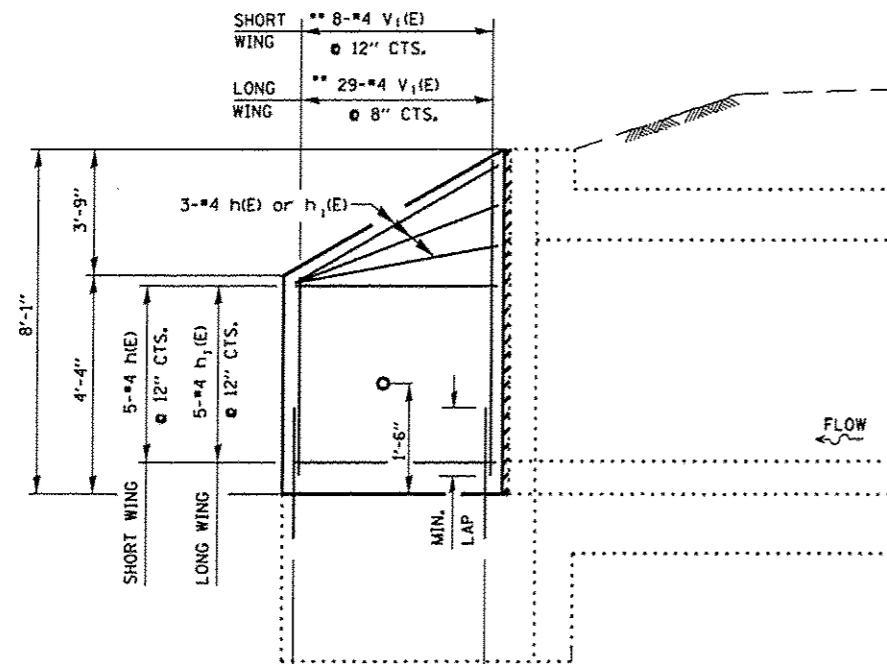
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	PLOT SCALE * 100,0000 ' / in.	CHECKED - RW	REVISED -
	PLOT DATE * 4/3/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**CONCRETE REMOVAL AND REPAIR DETAILS
FOR LOCATION 5: SN 047-2525**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	D3 WW REPAIR 2014-1	*	41	33
*KENDALL & LASALLE		CONTRACT NO. 66C40		
[ILLINOIS] FED. AID PROJECT				

SCALE: SHEET 4 OF 6 SHEETS STA. 1391+30

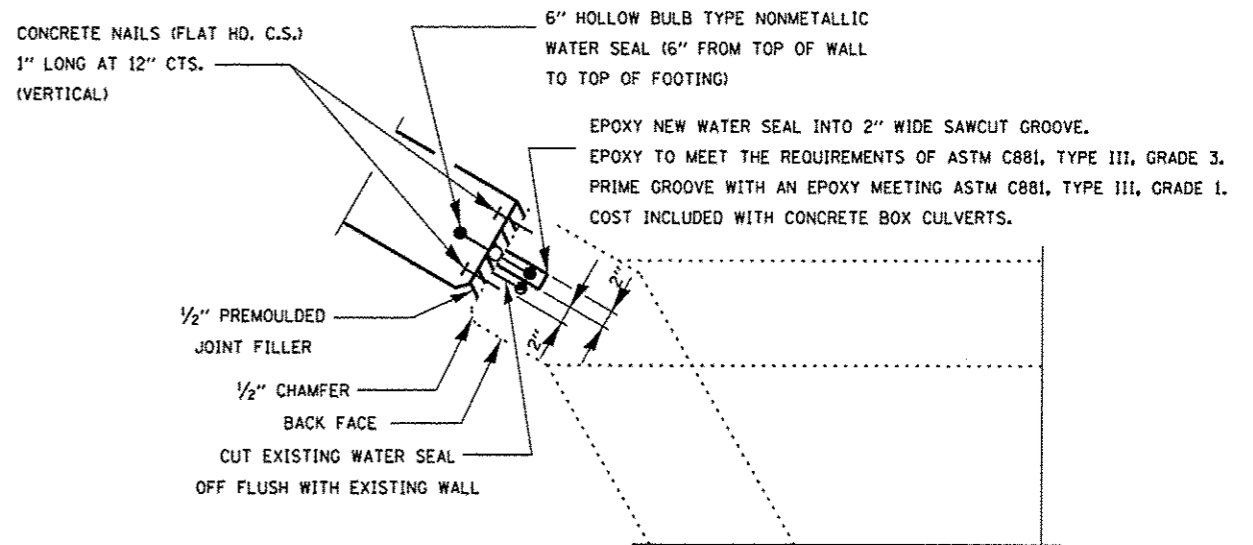


HALF ELEVATION

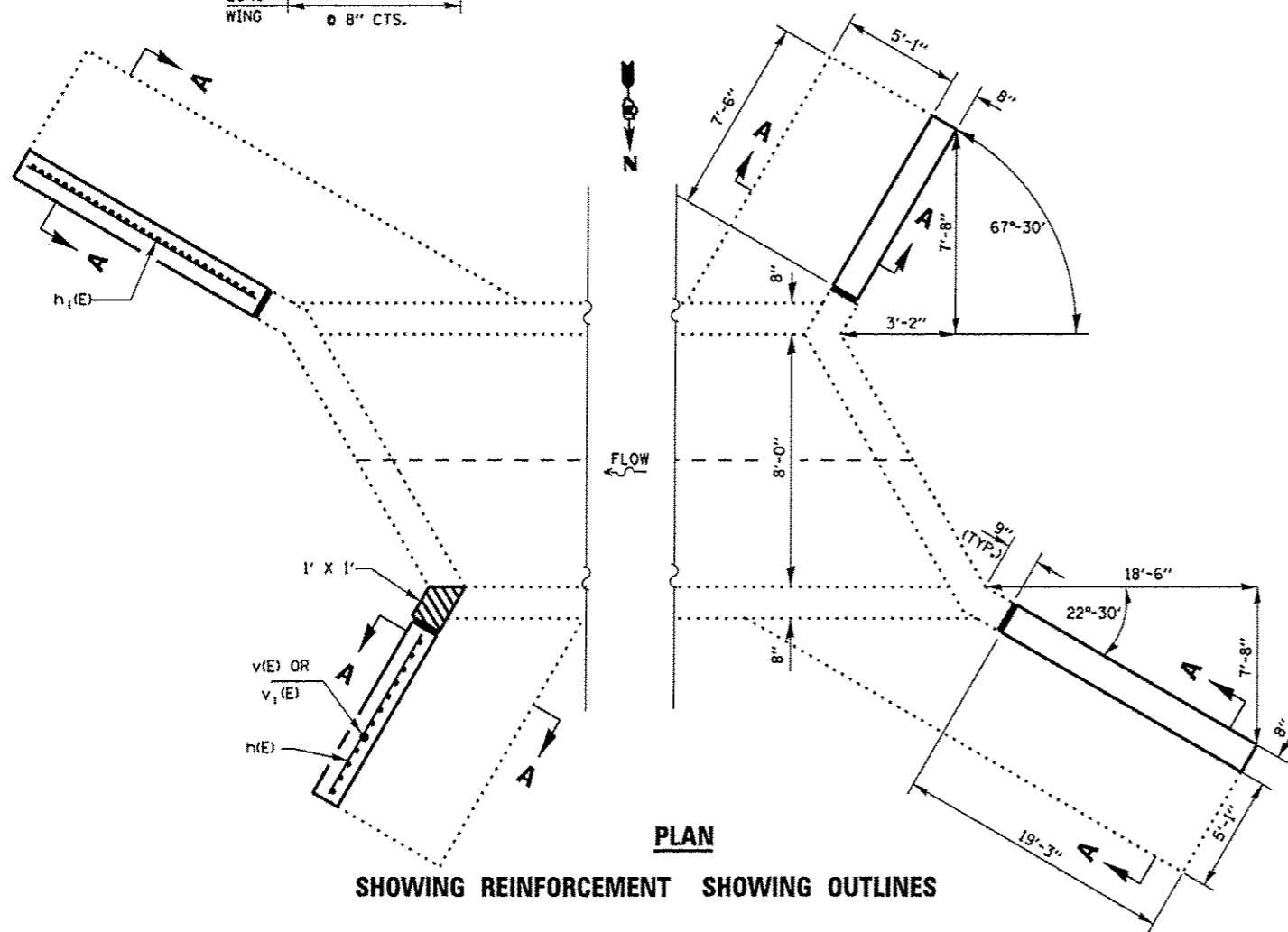
LAP LENGTH

BAR SIZE TO BE SPLICED	MIN. LAP LENGTH
#3	2'-1"
#4	2'-1"
#5	2'-7"
#6	3'-1"

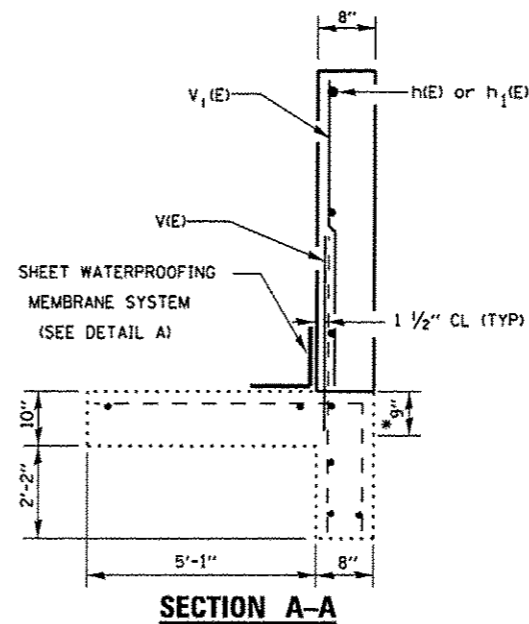
**ORDER V₁(E) BAR FULL LENGTH AND CUT TO FIT SKEW



CORNER DETAIL

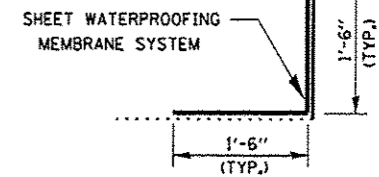


PLAN
SHOWING REINFORCEMENT SHOWING OUTLINES



SECTION A-A

* DRILL AND GROUT #5 V(E) BAR INTO EXISTING FOOTING AT SPECIFIED SPACING AND DEPTH IN ACCORDANCE WITH ART. 584 OF THE STANDARD SPECS.



DETAIL A

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	16	#5	7'-3"	—
h1(E)	16	#5	19'-0"	—
v(E)	74	#5	4'-0"	—
v1(E)	74	#4	7'-9"	—
CONCRETE REMOVAL			CU. YD.	8.2
CONCRETE BOX CULVERTS			CU. YD.	8.2
SHEET WATERPROOFING MEMBRANE SYSTEM			SO. YD.	17.9
REINFORCEMENT BARS, EPOXY COATED			LBS.	1130

SOIL BORING LOG

ROUTE IL 71 DESCRIPTION IL 71 over a Stream, 0.6 miles Southwest of IL 47 LOGGED BY Larry Myers

SECTION 2 LOCATION NW 1/4, SEC. 8, TWP. 36N, RNG. 7E

COUNTY Kendall DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 047-2525 (Exist.)	DEP	BLO	UCS	MOS	Surface Water Elev.	ft	DEP	BLO	UCS	MOS
Station 1392+00	TW	HS	Qu	T	Stream Bed Elev.	713.42	HT	WS	Qu	T
BORING NO. 1 (N.E. Quad.)					Groundwater Elev.:					
Station 1392+53					First Encounter	Dry				
Offset 18.00ft Lt.					Upon Completion	Dry				
Ground Surface Elev. 725.96 ft	(ft)	(/6")	(tsf)	(%)	After	Hrs.	(ft)	(/6")	(tsf)	(%)

Augered Brown & Black Silty Clay Loam Fill					Hard Gray Silty Clay Loam Till (continued)	4				
						5	4.7	14.0		
						9	S			
723.46										
Very Stiff to Hard Black Silty Clay Loam Topsoil & Brown Silty Clay Loam Till Fill	4					4				
	3	2.5	24.0			6	4.5	12.5		
	4	P				8	S			
	-5					-25				
	3					3				
	4	4.0	15.5			4	4.1	12.9		
	5	P				6	S			
	3					4				
	4	3.5	28.0			5	4.0	12.3		
716.96	4	P				6	S			
Very Stiff Brown Loam with Gravel Pieces - Native										
	-10					-30				
	3					5				
	4	2.0	18.2			5	4.1	13.9		
	3	P				7	S			
	713.96									
Hard Brown & Gray Silty Clay Loam Till										
	4									
	5	4.3	16.0							
	7	S								
	-15					-35				
	5					6				
	7	4.7	16.3			7	4.7	14.3		
	9	S				8	S			
	6									
	7	5.1	14.8							
706.96	10	S								
Hard Gray Silty Clay Loam Till										
	-20					-40				

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

SOIL BORING LOG

ROUTE IL 71 DESCRIPTION IL 71 over a Stream, 0.6 miles Southwest of IL 47 LOGGED BY Larry Myers

SECTION 2 LOCATION NW 1/4, SEC. 8, TWP. 36N, RNG. 7E

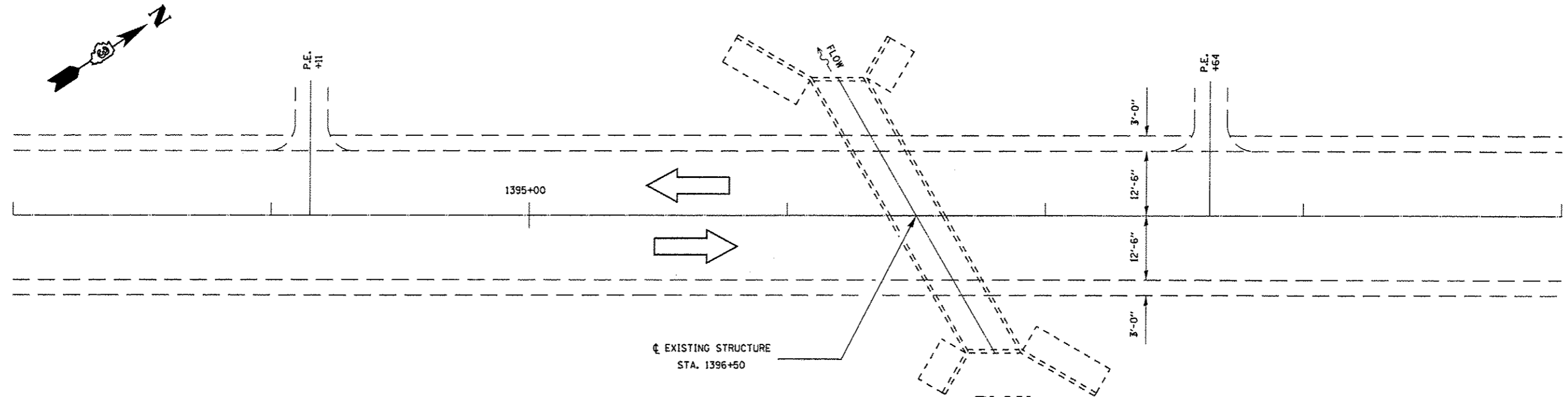
COUNTY Kendall DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 047-2525 (Exist.)	DEP	BLO	UCS	MOS	Surface Water Elev.	ft	DEP	BLO	UCS	MOS
Station 1392+00	TW	HS	Qu	T	Stream Bed Elev.	714.52	HT	WS	Qu	T
BORING NO. 2 (S.W. Quad.)					Groundwater Elev.:					
Station 1391+52					First Encounter	Dry				
Offset 18.00ft Rt.					Upon Completion	Dry				
Ground Surface Elev. 726.43 ft	(ft)	(/6")	(tsf)	(%)	After	Hrs.	(ft)	(/6")	(tsf)	(%)

Augered Shoulder Stone, Brown Silty Clay Loam Fill					Hard Brown & Gray Silty Clay Loam Till (continued)	4				
						4	4.6	12.7		
						6	S			
723.93										
Stiff to Very Stiff Black & Brown Silty Clay Loam Fill	2					4				
	2	2.5	24.2			5	4.5	13.3		
	4	P				6	S			
	-5					-25				
	2					4				
	2	1.5	24.3			5	4.5	13.7		
	2	P				7	S			
	2					5				
	2	2.0	22.5			6	4.6	13.9		
	2	P				7	S			
716.93										
Very Stiff Black Silty Clay Loam Topsoil										
	-10					-30				
	3					5				
	4	3.5	22.1			5	4.6	13.7		
	5	B				7	S			
	714.43									
Stiff Gray Silty Clay Loam with Gravel Pieces										
	1									
	1	1.4	17.4							
	3	B								
	711.93									
Hard Brown & Gray Silty Clay Loam Till										
	-15					-35				
	3					6				
	4	4.1	13.9			7	4.8	14.2		
	6	S				9	S			
	4									
	5	4.2	13.7							
	6	S								
689.93						-40				
End of Boring										

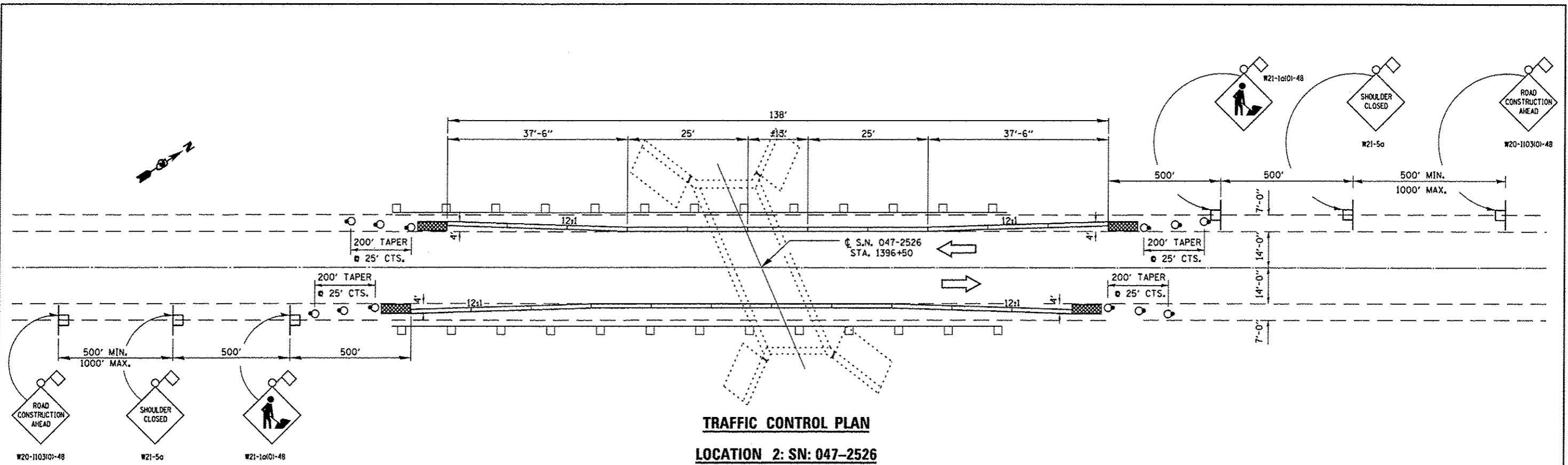
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The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, form 137 (Rev. 8-99)

BM #404 - RAIL ROAD SPIKE IN POWER POLE AT WINDCREST FARM, LT
 STA. 1397+82 (S) 52.08' LT ELEV. 725.274

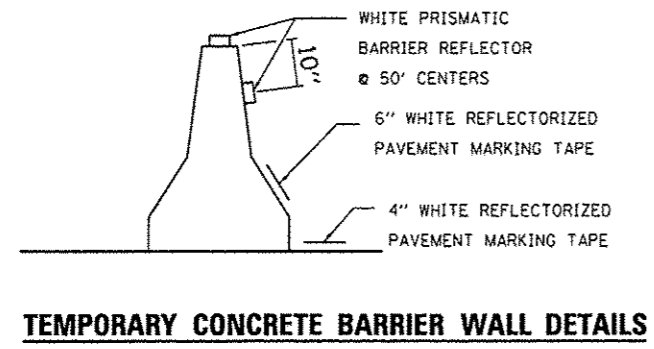


PLAN
 S.N. 047-2526
 STA. 1396+50
 10' x 8'
 R.C. BOX CULVERT
 30° SKEW

FILE NAME *	USER NAME * petelyj	DESIGNED - RS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL ROADWAY PLAN FOR LOCATION 6: SN 047-2526	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT SCALE * 100.0000' / in.	CHECKED - RW	REVISED -			* KENDALL & LASALLE		CONTRACT NO. 66C40		
	PLOT DATE * 4/3/2013	DATE -	REVISED -			SCALE:	SHEET 1 OF 6 SHEETS	STA. 1396+50	ILLINOIS FED. AID PROJECT	



TRAFFIC CONTROL PLAN
LOCATION 2: SN: 047-2526

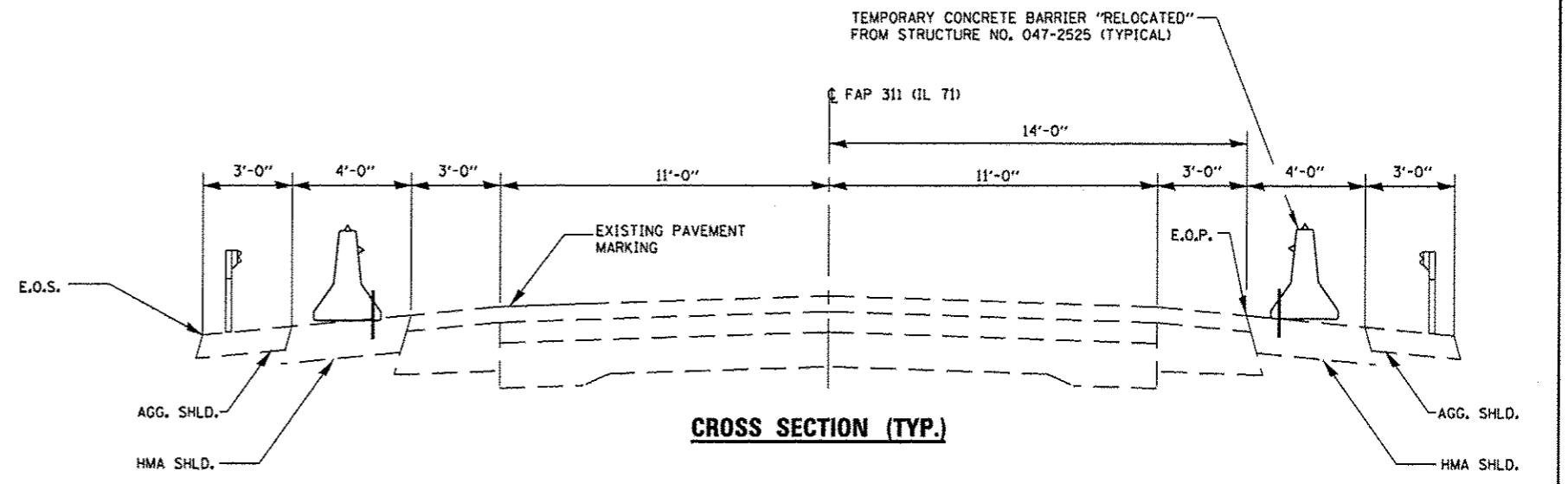


TEMPORARY CONCRETE BARRIER WALL DETAILS

SYMBOLS

- WORK AREA
- SIGN
- TYPE III BARRICADE
- TRAFFIC SIGNAL W/ BACK PLATE
- IMPACT ATTENUATOR
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT
- TEMPORARY CONCRETE BARRIER
- DOUBLE VERTICAL PANEL (SEE DETAIL)
- CRYSTAL BIDIRECTIONAL BARRIER WALL/GUARDRAIL MARKER

NOTES:
TEMPORARY CONCRETE BARRIER SHALL BE ACCORDING TO STANDARD 704001
THIS DETAIL IS TO BE USED IN CONJUNCTION WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701201



CROSS SECTION (TYP.)

BILL OF MATERIAL

ITEM	UNIT	TOTAL
RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	276
IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4

GENERAL NOTES

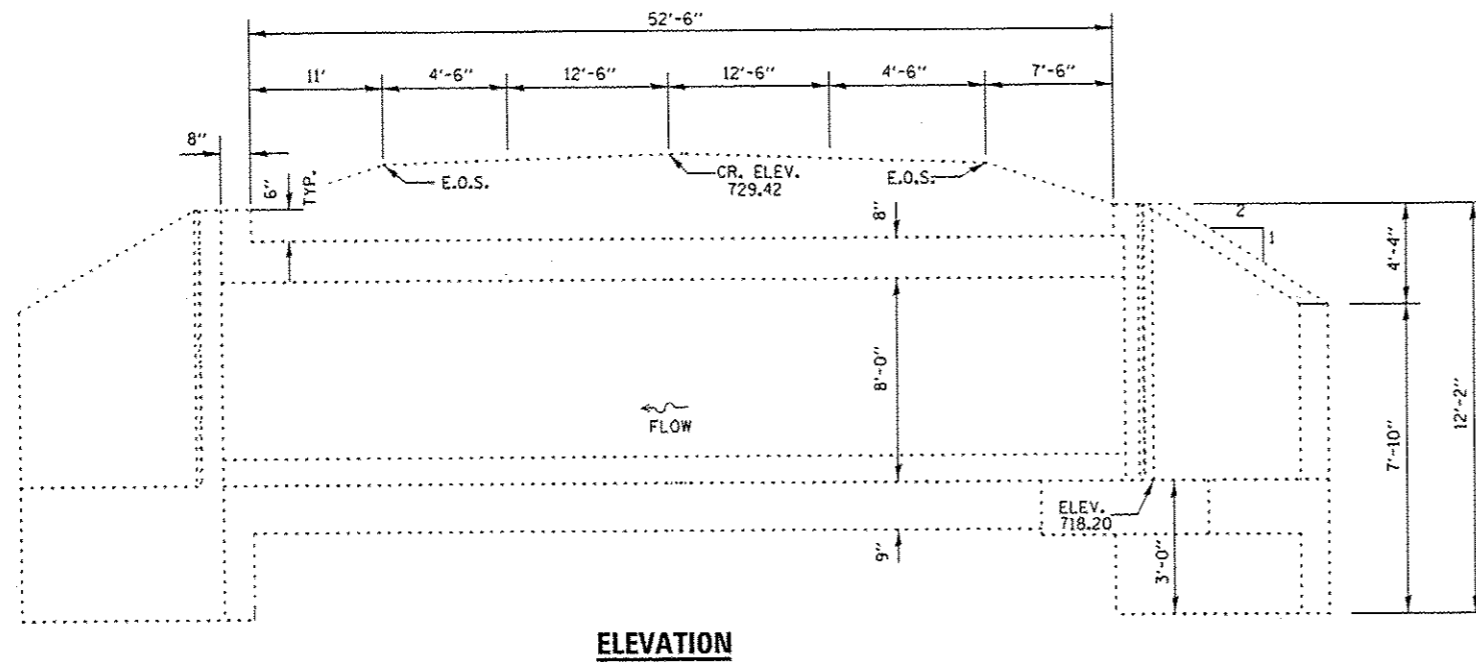
EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCRETE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED

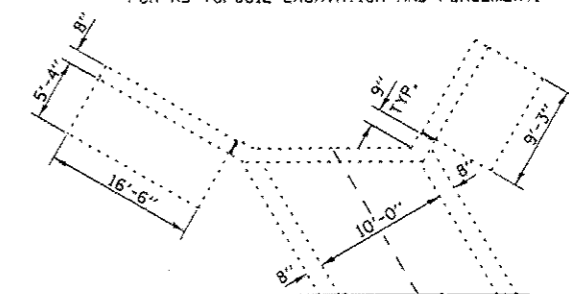
WATERPROOFING MEMBRANE SHALL BE APPLIED TO THE DESIGNATED AREAS ON THE BACKSIDE OF THE WINGWALL AS DETAILED

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN SCOPE OF THE WORK; HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

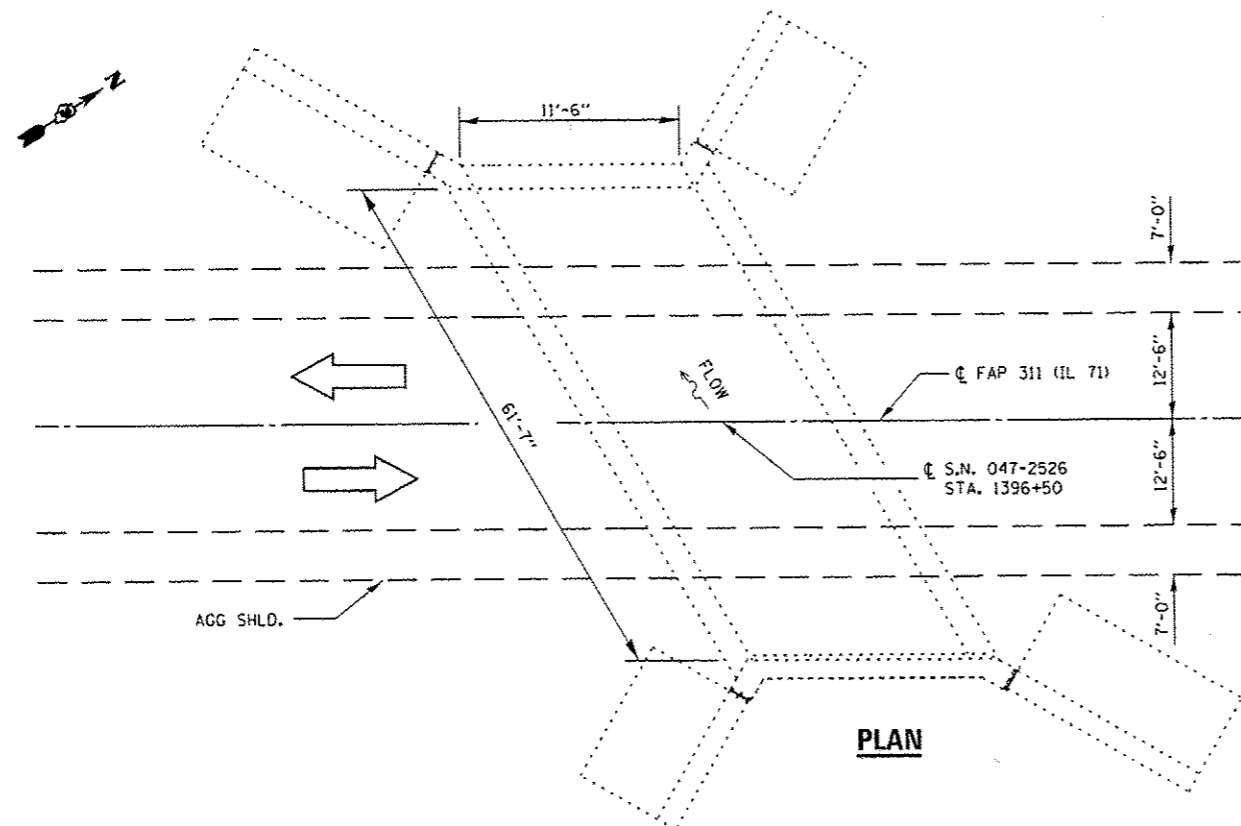
SUITABLE EXISTING SOIL SHALL BE EXCAVATED, STOCKPILED, AND REUSED FOR THE VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES OF THE FINISHED EARTHWORK. THE WORK SHALL BE PAID FOR AS TOPSOIL EXCAVATION AND PLACEMENT.



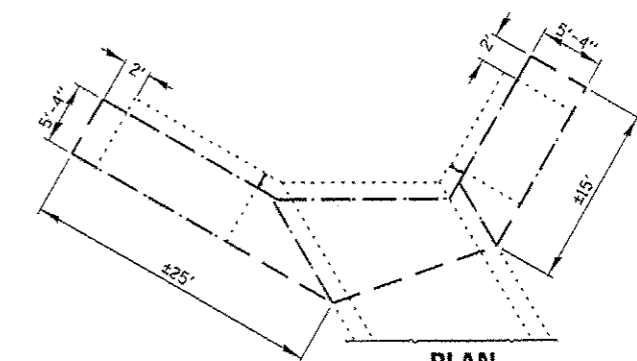
ELEVATION



PLAN SHOWING BOX CULVERT DIMENSIONS



PLAN



PLAN SHOWING EXCAVATION DIMENSIONS

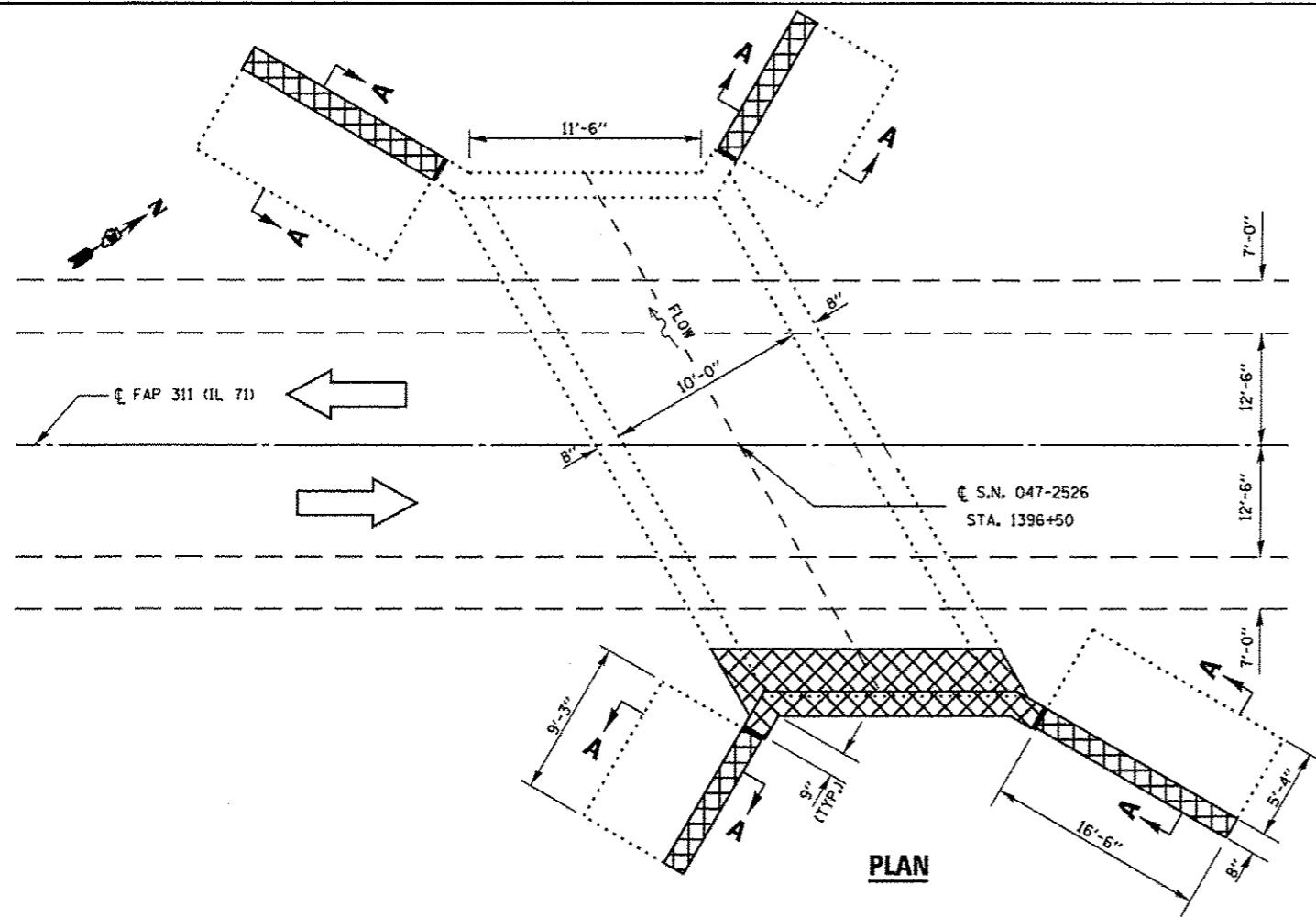
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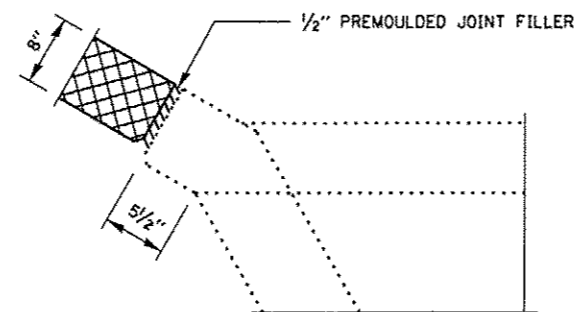
David Carl Puzey 5/9/13
Expires 11/30/14

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
PERIMETER EROSION BARRIER	FOOT	200
TOPSOIL EXCAVATION AND PLACEMENT	CU YD	11
BRACED EXCAVATION	CU YD	100
CONCRETE REMOVAL	CU YD	10.6
CONCRETE BOX CULVERTS	CU YD	10.6
REINFORCEMENT BARS (EPOXY COATED)	POUND	1070
SHEET WATERPROOFING MEMBRANE SYSTEM	SQ YD	17.2
HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	275

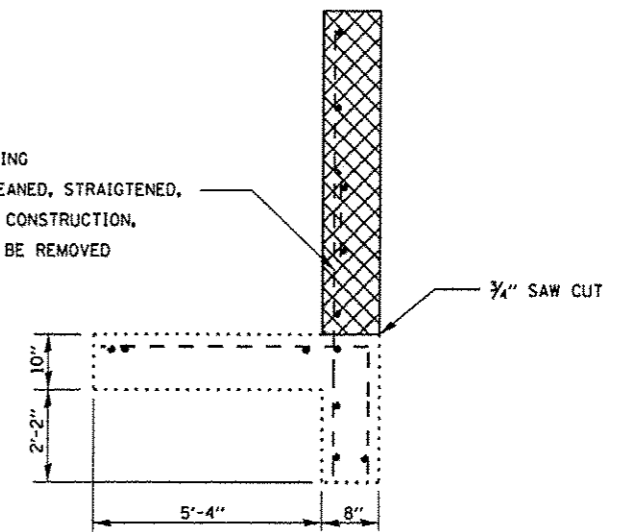


PLAN

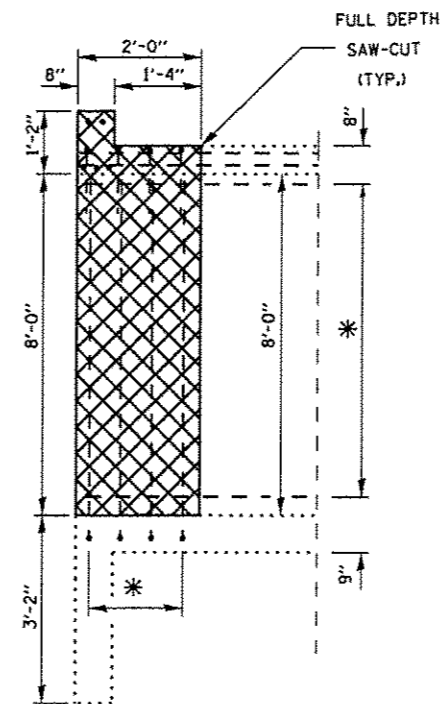


**CORNER DETAIL
(TYPICAL)**

EXISTING VERTICAL REBAR EXTENDING INTO REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED, AND INCORPORATED INTO THE NEW CONSTRUCTION. ALL OTHER REINFORCEMENT SHALL BE REMOVED



SECTION A-A



HEADWALL /BARREL REMOVAL DETAIL

* EXIST. REINFORCEMENT BARS IN BARREL SHALL BE CUT OFF FLUSH WITH REMAINING CONCRETE FACE WITH THE EXCEPTION OF SKEWED (d)E) BARS. (SEE NOTE ON RECONSTRUCTION DETAIL SHEET)

 **CONCRETE REMOVAL**

BILL OF MATERIAL

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	10.6

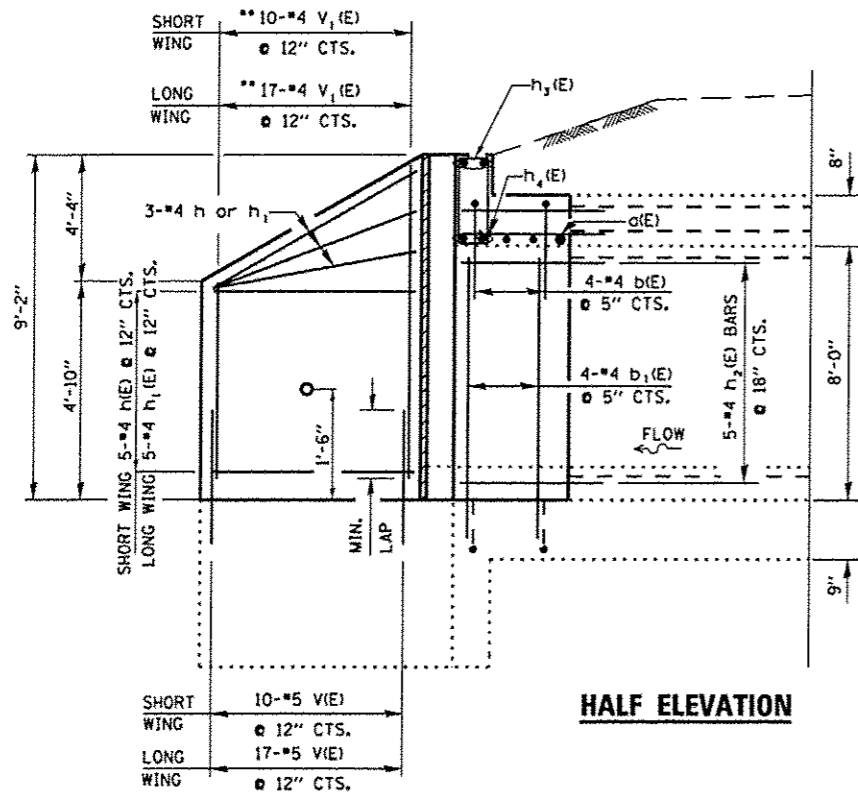
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	PLOT DATE = 4/3/2013	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**CONCRETE REMOVAL AND REPAIR DETAILS
FOR LOCATION 6: SN 047-2526**

SCALE: SHEET 4 OF 6 SHEETS STA. 1396+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	D3 WW REPAIR 2014-1	*	41	39
* KENDALL & LASALLE			CONTRACT NO. 66C40	
[ILLINOIS] FED. AID PROJECT				



HALF ELEVATION

LAP LENGTH

BAR SIZE TO BE SPLICED	MIN. LAP LENGTH
#3	2'-1"
#4	2'-1"
#5	2'-7"
#6	3'-1"

**ORDER V₁(E) BAR FULL LENGTH AND CUT TO FIT SKEW
 *** h₂(E) BARS SHALL BE DRILLED AND EPOXY GROUTED 9" MIN. INTO EXISTING FACE OF CONCRETE. b₂(E) BARS SHALL BE DRILLED AND EPOXY GROUTED 7" INTO BOTTOM SLAB.

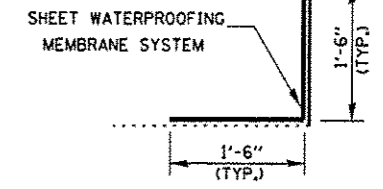
CONCRETE NAILS (FLAT HD. C.S.)
 1" LONG AT 12" CTS.
 (VERTICAL)

6" HOLLOW BULB TYPE NONMETALLIC
 WATER SEAL (6" FROM TOP OF WALL
 TO TOP OF FOOTING)

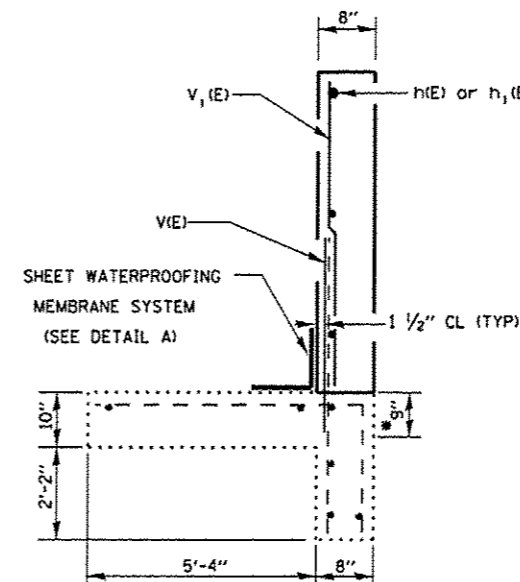
EPOXY NEW WATER SEAL INTO 2" WIDE SAWCUT GROOVE.
 EPOXY TO MEET THE REQUIREMENTS OF ASTM C881, TYPE III, GRADE 3.
 PRIME GROOVE WITH AN EPOXY MEETING ASTM C881, TYPE III, GRADE 1.
 COST INCLUDED WITH CONCRETE BOX CULVERTS.

1/2" PREMOULDED
 JOINT FILLER
 1/2" CHAMFER
 BACK FACE
 CUT EXISTING WATER SEAL
 OFF FLUSH WITH EXISTING WALL

CORNER DETAIL



DETAIL A

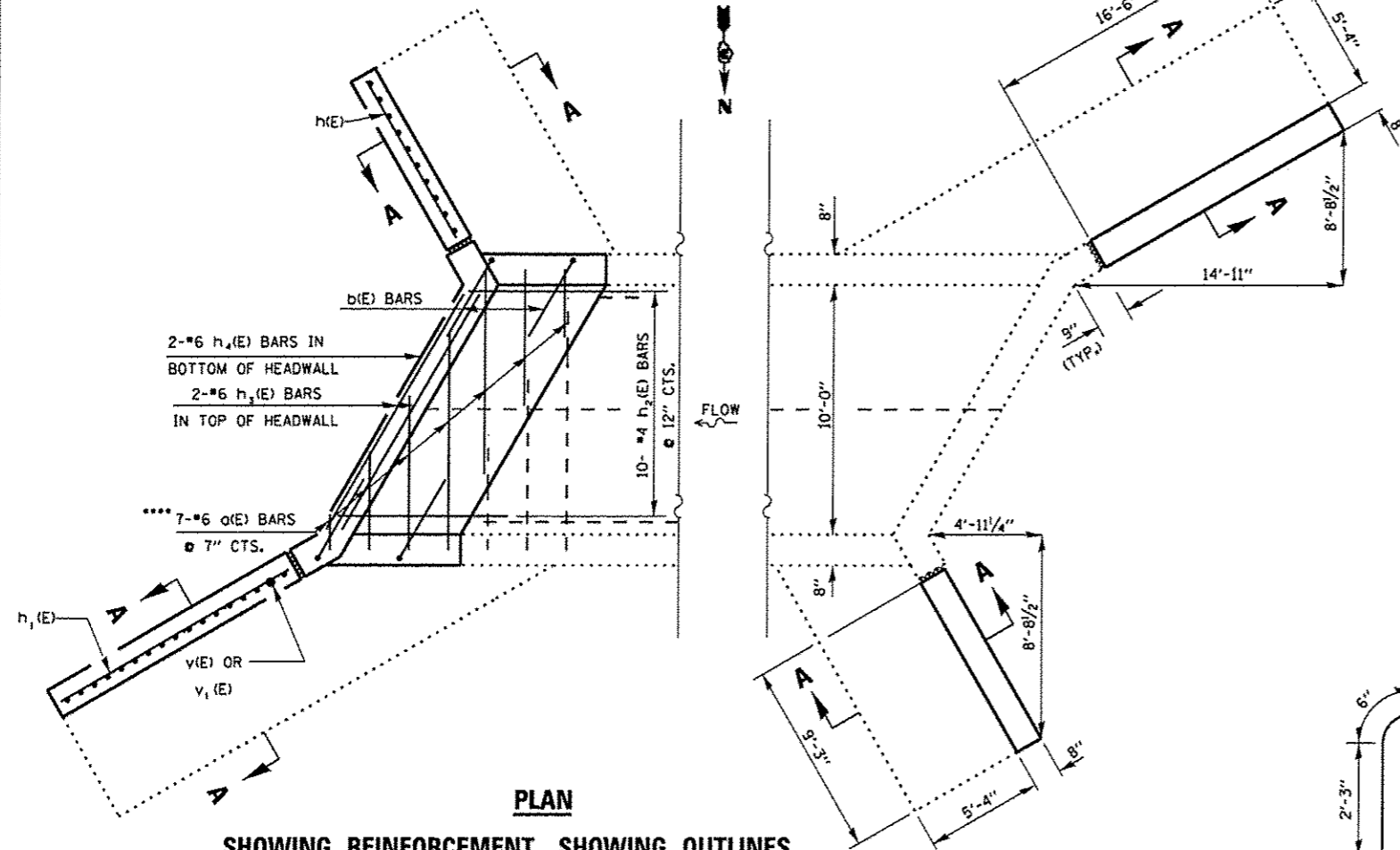


SECTION A-A

*DRILL AND GROUT #5 V1(E) BAR INTO EXISTING FOOTING AT SPECIFIED SPACING AND DEPTH

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	7	#6	4'-0"	—
b(E)	8	#4	5'-0"	└
b1(E)	8	#4	7'-0"	—
h(E)	16	#4	8'-11"	—
h1(E)	16	#4	16'-2"	—
h2(E)	24	#4	2'-9"	—
h3(E)	2	#6	12'-0"	—
h4(E)	2	#6	12'-6"	—
s1(E)	14	#4	2'-9"	□
v(E)	54	#5	4'-0"	—
v1(E)	54	#4	8'-10"	—
CONCRETE REMOVAL			CU. YD.	10.6
CONCRETE BOX CULVERTS			CU. YD.	10.6
SHEET WATERPROOFING MEMBRANE SYSTEM			SQ. YD.	17.2
REINFORCEMENT BARS, EPOXY COATED			LBS.	1070



PLAN

SHOWING REINFORCEMENT SHOWING OUTLINES

***ORDER a(E) BAR MAX LENGTH AND CUT TO FIT SKEW.
 EXISTING PROTRUDING a(E) BARS SHALL BE CUT TO MIN. LAP LENGTH (SEE CHART ABOVE)

b(E) BAR

**S₁ BAR
 DOWNSTREAM**

FILE NAME *	USER NAME * patalyj	DESIGNED - RS	REVISED -
a:\pwork\p\idoc\patalyj\0311733\0366C	8-shd-detail.dgn	DRAWN - RS	REVISED -
	PLOT SCALE * 1/8"=1'-0"	CHECKED - RW	REVISED -
	PLOT DATE * 4/3/2013	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**RECONSTRUCTION DETAILS
 FOR LOCATION 6: SN 047-2526**

SCALE: SHEET 5 OF 6 SHEETS STA. 1396+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
311	D3 WW REPAIR 2014-1	*	41	40
*KENDALL & LASALLE		CONTRACT NO. 66C40		
ILLINOIS FED. AID PROJECT				

SOIL BORING LOG

Date 9/18/12

ROUTE IL 71 DESCRIPTION IL 71 over a Stream, 0.5 miles Southwest of IL 47 LOGGED BY Larry Myers

SECTION 2 LOCATION NW 1/4, SEC. 8, TWP. 36N, RNG. 7E

COUNTY Kendall DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.	STATION	BORING NO.	STATION	OFFSET	GROUND SURFACE ELEV.	DEPTH (ft)	BLOWS (/6")	UNCONSOLIDATED SOIL TEST (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BLOWS (/6")	UNCONSOLIDATED SOIL TEST (tsf)	MOISTURE (%)
047-2526 (Exist.)	1396+50	1 (N.E. Quad.)	1396+52	18.00ft Lt.	724.16					Hard Gray Silty Clay/Clay				
						6					6			
						7					7	5.1		18.6
						9					9	S		
					721.66									
						5				Hard Brown, Black & Gray Silty Clay Loam Fill with Gravel Pieces				
						3		4.0	16.1		3			
						3		P			3			
						5					5			
						6		>4.5	14.3		6			
						6		P			6			
						5					5			
						3		4.3	19.2		3			
						5		B			5			
					714.16									
						3				Very Stiff Gray & Brown Silty Clay Loam Till with Silty Loam Layers				
						4		3.7	16.8		4			
						4		B			4			
					712.16									
						5				Hard Brown & Gray Silty Clay Loam Till				
						8		5.7	15.8		8			
						9		S			9			
					709.16									
						9				Hard Brownish Gray Silty Clay Loam Till				
						10		6.1	13.6		10			
						12		S			12			
						5					5			
						8		5.9	12.3		8			
						9		S			9			
					704.16									

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

BBS, form 137 (Rev. 8-99)

SOIL BORING LOG

Date 9/18/12

ROUTE IL 71 DESCRIPTION IL 71 over a Stream, 0.5 miles Southwest of IL 47 LOGGED BY Larry Myers

SECTION 2 LOCATION NW 1/4, SEC. 8, TWP. 36N, RNG. 7E

COUNTY Kendall DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO.	STATION	BORING NO.	STATION	OFFSET	GROUND SURFACE ELEV.	DEPTH (ft)	BLOWS (/6")	UNCONSOLIDATED SOIL TEST (tsf)	MOISTURE (%)	DESCRIPTION	DEPTH (ft)	BLOWS (/6")	UNCONSOLIDATED SOIL TEST (tsf)	MOISTURE (%)
047-2526 (Exist.)	1396+50	2 (S.W. Quad.)	1396+30	18.00ft Rt.	724.36					Hard Gray Silty Clay/Clay				
						6					6			
						7					7	5.1		18.6
						9		S			9			
					721.86									
						5				Hard Brown, Black & Gray Silty Clay Loam Till with Gravel Pieces				
						3		4.0	16.1		3			
						3		P			3			
						5					5			
						6		>4.5	14.3		6			
						6		P			6			
						5					5			
						3		4.3	19.2		3			
						5		B			5			
					716.86									
						2				Very Stiff Black Silty Clay Loam Topsoil				
						3		2.0	26.8		3			
						4		P			4			
					714.86									
						3				Hard Brown & Gray Silty Clay Loam Till				
						4		4.0	20.1		4			
						5		S			5			
						3					3			
						5		4.1	18.4		5			
						6		S			6			
						4					4			
						6		4.4	15.6		6			
						8		S			8			
						5					5			
						9		4.3	15.6		9			
						8		S			8			
					692.86									

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

BBS, form 137 (Rev. 8-99)