

DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

VARIOUS ROUTES  
D3 WING WALL REPAIR 2012-1  
WING WALL REPAIR  
VARIOUS COUNTIES

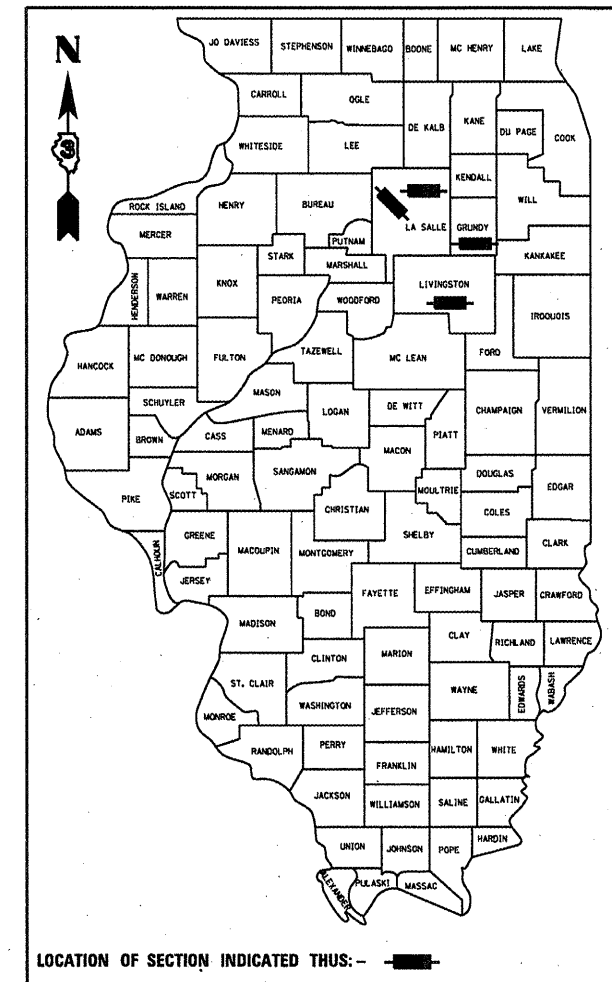
CONTRACT NO. 66B42  
C-93-118-11

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	VAR	VAR	40	1
ILLINOIS			CONTRACT NO. 66B42	

1. COVER SHEET
2. GENERAL NOTES
3. SUMMARY OF QUANTITIES
- 4 - 5. TYPICAL SECTION
- 4 - 6. SCHEDULES
- 7 - 11. REPAIR DETAILS SN: 053-2012
- 12 - 16. REPAIR DETAILS SN: 053-2013
- 17 - 22. REPAIR DETAILS SN: 053-2014
- 23 - 27. REPAIR DETAILS SN: 050-2523
- 28 - 32. REPAIR DETAILS SN: 050-2589
- 33 - 37. REPAIR DETAILS SN: 032-2519
- 38 - 40. SOIL BORING LOGS

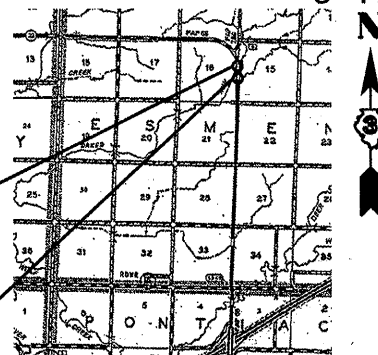
STANDARDS

- |           |  |
|-----------|--|
| 000001-06 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS                               |
| 001001-02 | AREAS OF REINFORCEMENT BARS  |
| 001006    | DECIMAL OF AN INCH AND OF A FOOT   |
| 701001-02 | OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' (4.5 m) AWAY                     |
| 701006-03 | OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE |
| 701201-04 | LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS $\Delta$ 45 MP                  |
| 701321-12 | LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER                           |
| 701400-05 | APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY                               |
| 701406-06 | LANE CLOSURE, FREEWAY/EXPRESSWAY DAY OPERATIONS ONLY                       |
| 701901-02 | TRAFFIC CONTROL DEVICES  |
| 704001-07 | TEMPORARY CONCRETE BARRIER   |



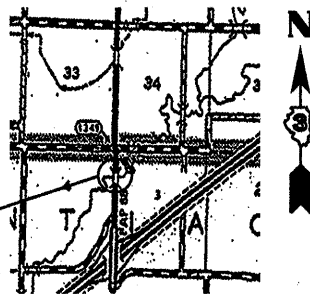
**LOCATION 1**

SN: 053-2012: (7'x12' DUAL BARREL BOX CULVERT)  
IL 23 - 4.38 MILES NORTH OF I-55  
LIVINGSTON COUNTY



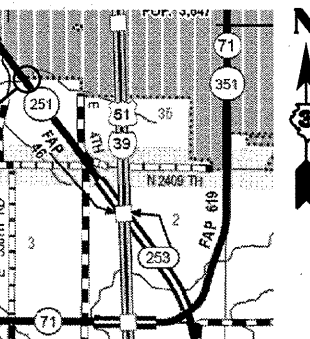
**LOCATION 2**

SN: 053-2013: (7'x12' DUAL BARREL BOX CULVERT)  
IL 23 - 4.31 MILES NORTH OF I-55  
LIVINGSTON COUNTY



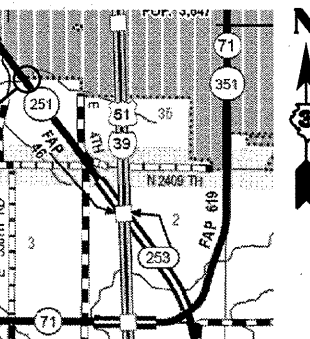
**LOCATION 3**

SN: 053-2014: (9' x 5'-6") DUAL BARREL BOX CULVERT)  
IL 23 - 1.6 MILES NORTH OF I-55  
LIVINGSTON COUNTY



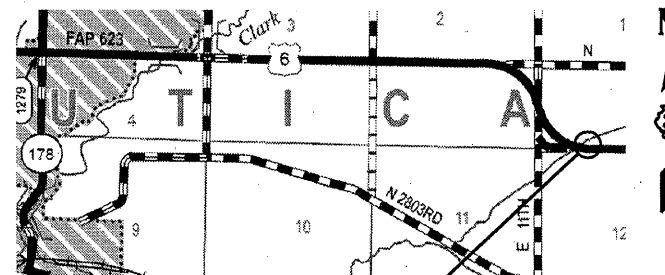
**LOCATION 4**

SN: 050-2523: (6'x6' BOX CULVERT)  
IL 251 - 2.0 MILES NORTH OF IL 71  
LASALLE COUNTY



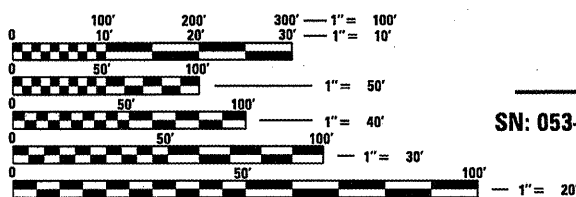
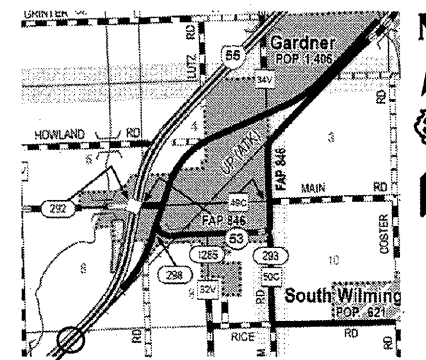
**LOCATION 5**

SN: 050-2589: (9'x4' BOX CULVERT)  
US 6 - 3.5 MILES EAST IL 178  
LASALLE COUNTY



**LOCATION 6**

SN: 032-2519: (10'x5' BOX CULVERT)  
I-55 SB - 2.1 MILES SOUTH OF  
IL 53 GARDNER INTERCHANGE  
GRUNDY



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, PE  
UNIT CHIEF: RON WOODSHANK  
TOWNSHIP: VARIOUS

**CONTRACT NO. 66B42**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED 12/28 20 11  
*Eve S. Therkildsen*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Feb 3 20 12  
*John D. Baranzelli, P.E.*  
ENGINEER OF DESIGN AND ENVIRONMENT

Feb 3 20 12  
*William R. Fidler*  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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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.

THE THICKNESS OF HMA 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 IS PLACED.

EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.

ON EXISTING PAVEMENT WHICH MAY BE SUPERELEVATED, THE NEW HMA PAVEMENT OR SHOULDER SHALL BE BUILT WITH THE SAME SUPERELEVATION UNLESS NEW SUPERELEVATION RATES ARE GIVEN ON THE PLANS.

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

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.

SEEDING SHALL 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.

THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES (4") IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF "FURNISHED EXCAVATION".

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05	TONS / CU YD
BIT MATERIALS (PRIME COAT) ON AGGREGATE BASES	0.375	GAL / SO YD
BITUMINOUS MATERIALS (PRIME COAT)	0.08	GAL / SO YD
FOR ADDITIONAL HMA LIFTS "FOG COAT"	0.05	GAL / SO YD
AGGREGATE PRIME COAT	0.002	TONS / SO YD
HMA RESURFACING	112	LBS / SO YD / IN
SHORT TERM PAVEMENT MARKING	10	FT /100 FT OF APPLICATION

**COMMITMENTS**

DATE: 12-27-11

PREPARED BY: Tom Beavitt  
DISTRICT STUDIES & PLANS ENGINEER

EXAMINED BY: Harold Gray  
DISTRICT CONSTRUCTION ENGINEER

W. Angus Phillips  
DISTRICT MATERIALS ENGINEER

Bruce A. Hooker  
DISTRICT OPERATIONS ENGINEER

FILE NAME =	USER NAME = petelyj	DESIGNED - YOGESH PATEL	REVISED -
or\pwork\pwork\petelyj\0266589\0366	42-sheets.dgn	DRAWN - YOGESH PATEL	REVISED -
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	PLOT DATE = 12/27/2011	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

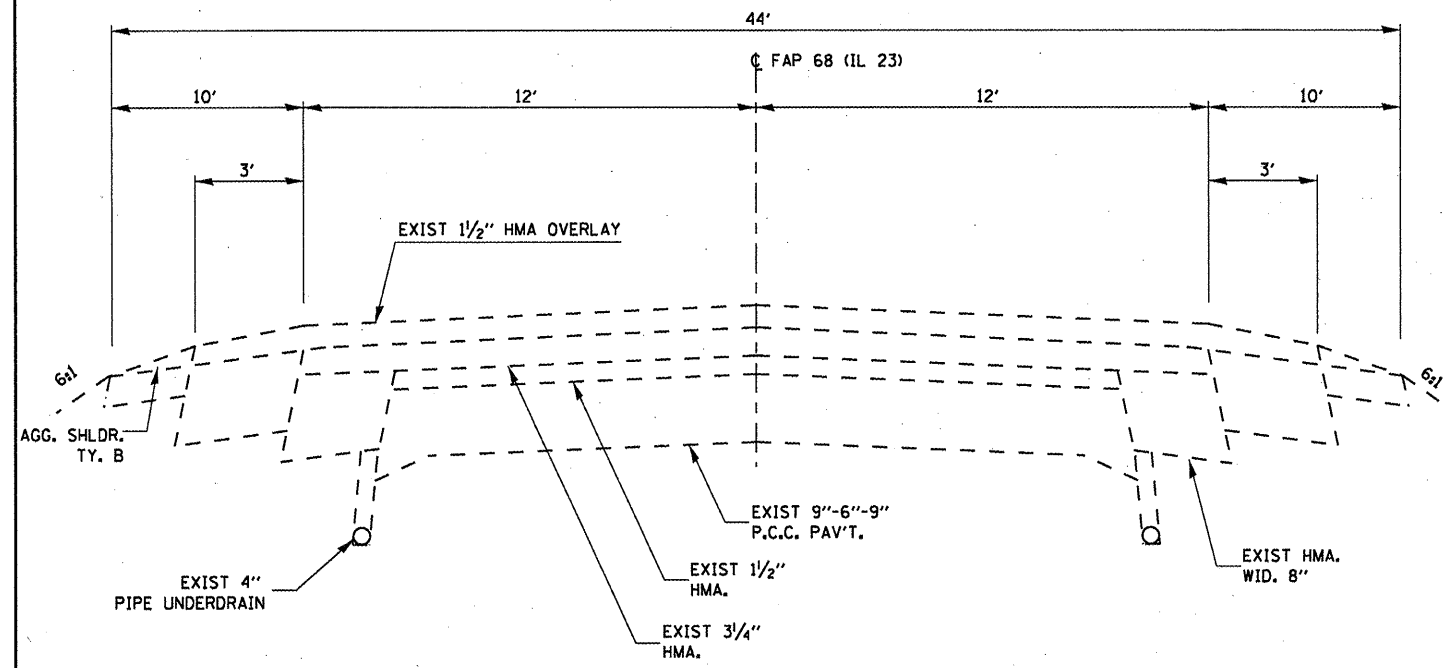
<b>GENERAL NOTES</b>	
SCALE: _____	SHEET NO. 1 OF 1 SHEETS
STA. _____	TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	VARIOUS	VARIOUS	40	2
			CONTRACT NO. 66B42	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				STATE FUNDS 100% STATE ROADWAY 0040 URBAN
20200100	EARTH EXCAVATION	CU YD	75	75
20400800	FURNISHED EXCAVATION	CU YD	181	181
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	175	175
48101200	AGGREGATE SHOULDERS, TYPE B	TONS	8	8
50102400	CONCRETE REMOVAL	CU YD	13.5	13.5
50200100	STRUCTURE EXCAVATION	CU YD	106	106
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1560	1560
54003000	CONCRETE BOX CULVERTS	CU YD	13.5	13.5
63301210	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	38	38
67100100	MOBILIZATION	L SUM	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
70400100	TEMPORARY CONCRETE BARRIER	FOOT	100	100
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	100	100
X0322121	SHEET WATERPROOFING MEMBRANE SYSTEM	SQ YD	32	32
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	18	18
Z0015500	DEBRIS REMOVAL	L SUM	1	1
Z0030280	IMPACT ATTENUATORS, TEMPORARY (SEVERE USE, NARROW), TEST LEVEL 3	EACH	2	2
Z0030370	IMPACT ATTENUATORS, RELOCATE (SEVERE USE, NARROW), TEST LEVEL 3	EACH	2	2
Z0073002	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	576	576

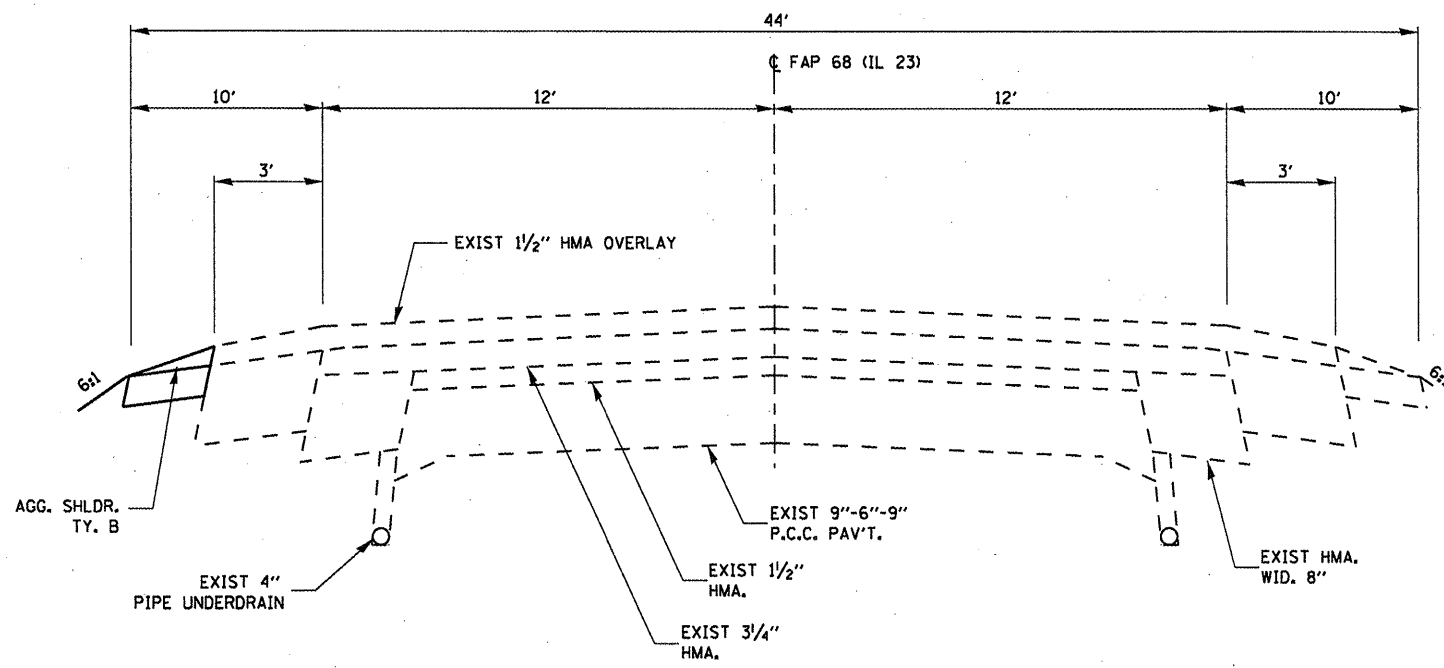
•SPECIALITY ITEMS

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PLOT DATE = 12/27/2011	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
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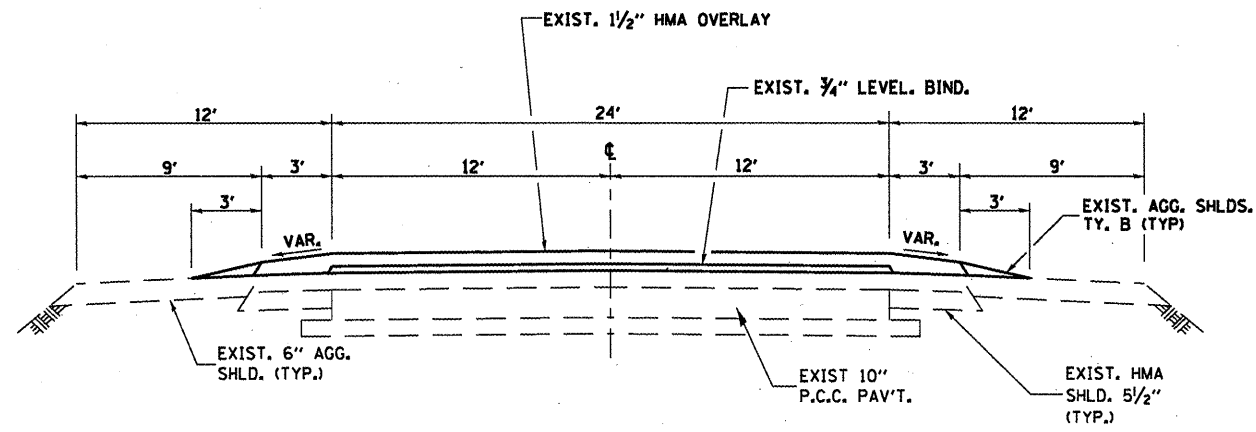
**TYPICAL SECTION LOCATION NO. 1 AND 2**

LOOKING NORTH



**TYPICAL SECTION LOCATION NO. 3**

LOOKING NORTH



**TYPICAL SECTION LOCATION NO. 4**

LOOKING NORTH

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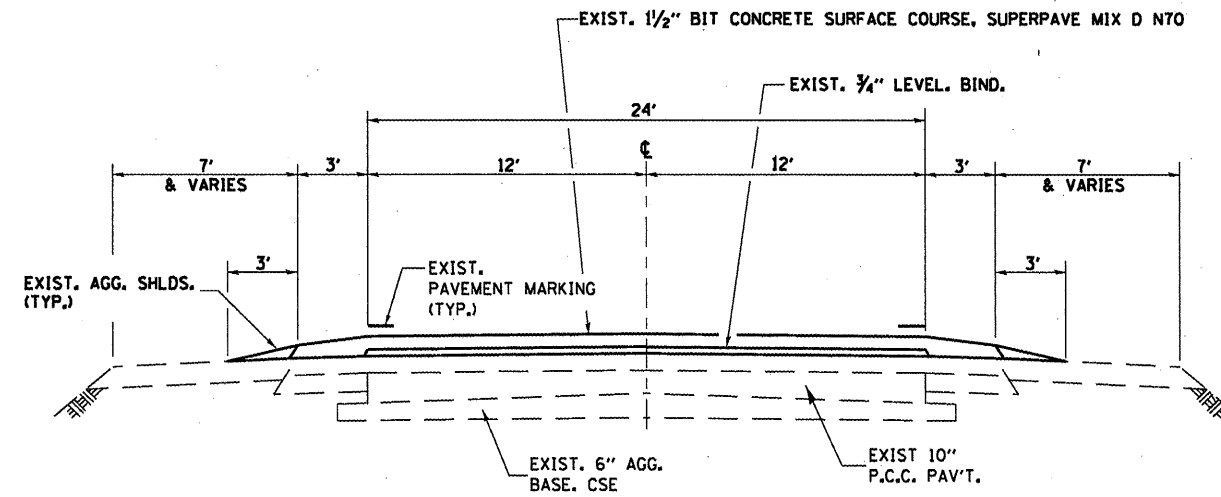
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**TYPICAL SECTION**

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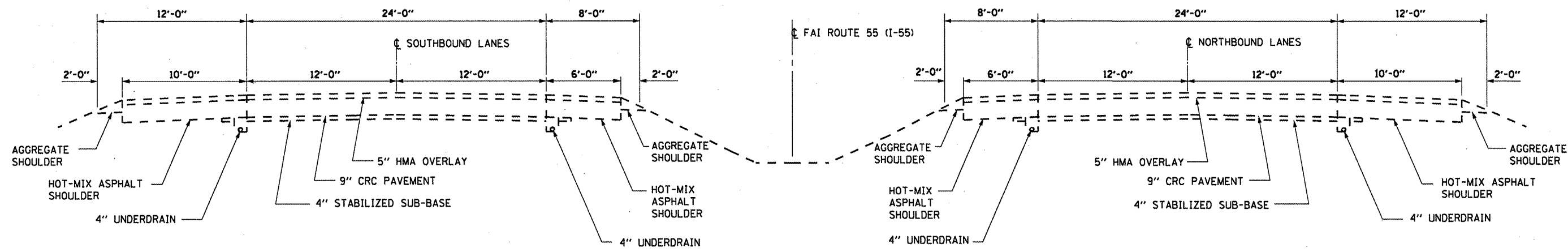
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	VARIOUS	VARIOUS	40	4
			CONTRACT NO. 66B42	
ILLINOIS FED. AID PROJECT				





**TYPICAL SECTION LOCATION NO. 5**

LOOKING WEST



**TYPICAL SECTION LOCATION NO. 6**

FILE NAME =	USER NAME = potelij	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>TYPICAL SECTION</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
at\p\work\p\dot\potelij\0266589\0368	42-sheets.dgn	DRAWN -	REVISED -			VAR	VARIOUS	VARIOUS	40	5	
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 66B42					
	PLOT DATE = 12/27/2011	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

LOCATION NO. 1					
COUNTY	LIVINGSTON	ROUTE	FAP 68	STATION	SN: 053-2012
DESCRIPTION OF WORK				UNIT	QUANTITY
STRUCTURE EXCAVATION				CU. YD.	18
EARTH EXCAVATION				CU. YD.	30
FURNISHED EXCAVATION				CU. YD.	48
HEAVY DUTY EROSION CONTROL BLANKET				SO. YD.	25
CONCRETE REMOVAL				CU. YD.	2.8
CONCRETE BOX CULVERTS				CU. YD.	2.8
REINFORCEMENT BARS (EPOXY COATED)				POUND	351
SHEET WATERPROOFING MEMBRANE SYSTEM				SO. YD.	6
TRAFFIC CONTROL AND PROTECTION STANDARD 701201				LUMP SUM	1
TEMPORARY CONCRETE BARRIER				FOOT	100
IMP ATTN TEMP SUN TL 3				EACH	2

LOCATION NO. 4					
COUNTY	LASALLE	ROUTE	FAP 46	STATION	SN: 050-2523
DESCRIPTION OF WORK				UNIT	QUANTITY
STRUCTURE EXCAVATION				CU. YD.	26
FURNISHED EXCAVATION				CU. YD.	26
HEAVY DUTY EROSION CONTROL BLANKET				SO. YD.	50
CONCRETE REMOVAL				CU. YD.	4
CONCRETE BOX CULVERTS				CU. YD.	4
REINFORCEMENT BARS (EPOXY COATED)				POUND	440
SHEET WATERPROOFING MEMBRANE SYSTEM				SO. YD.	6
TRAFFIC CONTROL AND PROTECTION STANDARD 701201				LUMP SUM	1

LOCATION NO. 2					
COUNTY	LIVINGSTON	ROUTE	FAP 68	STATION	SN: 053-2013
DESCRIPTION OF WORK				UNIT	QUANTITY
STRUCTURE EXCAVATION				CU. YD.	18
EARTH EXCAVATION				CU. YD.	30
FURNISHED EXCAVATION				CU. YD.	48
HEAVY DUTY EROSION CONTROL BLANKET				SO. YD.	25
CONCRETE REMOVAL				CU. YD.	2.1
CONCRETE BOX CULVERTS				CU. YD.	2.1
REINFORCEMENT BARS (EPOXY COATED)				POUND	274
SHEET WATERPROOFING MEMBRANE SYSTEM				SO. YD.	5
TRAFFIC CONTROL AND PROTECTION STANDARD 701201				LUMP SUM	1
RELOCATE TEMPORARY CONCRETE BARRIER				FOOT	100
RELOCATE IMP ATTN TEMP SUN TL 3				EACH	2

LOCATION NO. 5					
COUNTY	LASALLE	ROUTE	FAP 623	STATION	050-2589
DESCRIPTION OF WORK				UNIT	QUANTITY
STRUCTURE EXCAVATION				CU. YD.	9
FURNISHED EXCAVATION				CU. YD.	9
HEAVY DUTY EROSION CONTROL BLANKET				SO. YD.	25
CONCRETE REMOVAL				CU. YD.	1
CONCRETE BOX CULVERTS				CU. YD.	1
REINFORCEMENT BARS (EPOXY COATED)				POUND	103
SHEET WATERPROOFING MEMBRANE SYSTEM				SO. YD.	4
TRAFFIC CONTROL AND PROTECTION STANDARD 701201				LUMP SUM	1

LOCATION NO. 3					
COUNTY	LIVINGSTON	ROUTE	FAP 68	STATION	SN: 053-2014
DESCRIPTION OF WORK				UNIT	QUANTITY
STRUCTURE EXCAVATION				CU. YD.	9
EARTH EXCAVATION				CU. YD.	15
FURNISHED EXCAVATION				CU. YD.	24
HEAVY DUTY EROSION CONTROL BLANKET				SO. YD.	25
AGGREGATE SHOULDERS, TYPE B				CU. YD.	3
CONCRETE REMOVAL				CU. YD.	2
CONCRETE BOX CULVERTS				CU. YD.	2
STR REP CON DP = < 5				SO. FT.	18
REINFORCEMENT BARS (EPOXY COATED)				POUND	237
TEMPORARY SOIL RETENTION SYSTEM				SO. FT.	576
REM & REERECT SPBGR, TYPE A				FOOT	37.5
SHEET WATERPROOFING MEMBRANE SYSTEM				SO. YD.	6
TEMPORARY BRIDGE TRAFFIC SIGNALS				EACH	1
TRAFFIC CONTROL AND PROTECTION STANDARD 701321				LUMP SUM	1

LOCATION NO. 6					
COUNTY	GRUNDY	ROUTE	FAI 55	STATION	032-2519
DESCRIPTION OF WORK				UNIT	QUANTITY
STRUCTURE EXCAVATION				CU. YD.	26
FURNISHED EXCAVATION				CU. YD.	26
HEAVY DUTY EROSION CONTROL BLANKET				SO. YD.	25
CONCRETE REMOVAL				CU. YD.	1.6
CONCRETE BOX CULVERTS				CU. YD.	1.6
REINFORCEMENT BARS (EPOXY COATED)				POUND	155
SHEET WATERPROOFING MEMBRANE SYSTEM				SO. YD.	5
TRAFFIC CONTROL AND PROTECTION STANDARD 701406				LUMP SUM	1

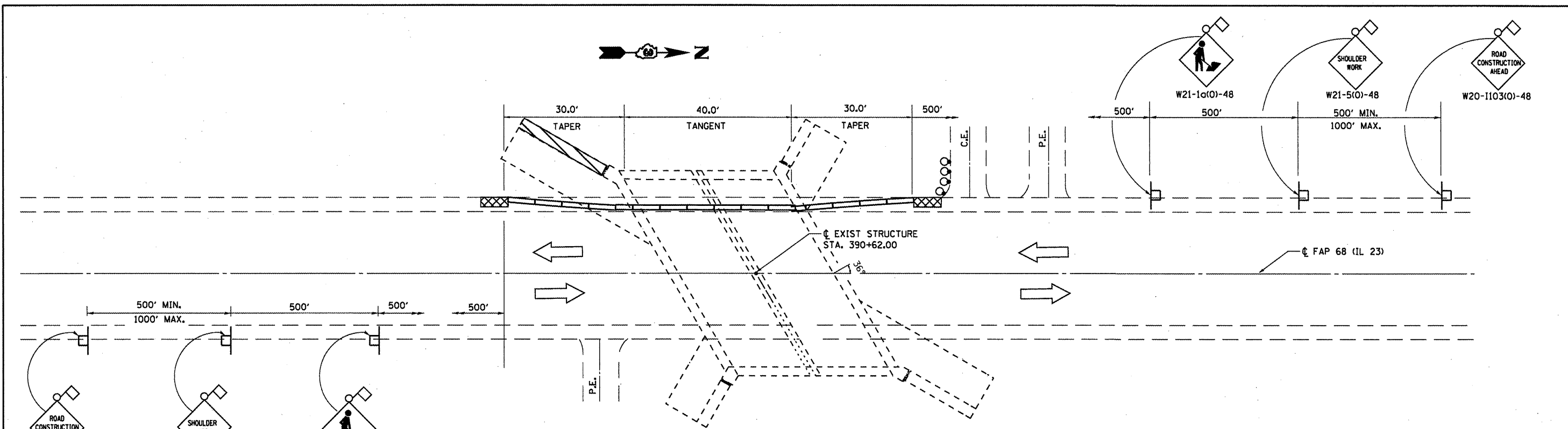
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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

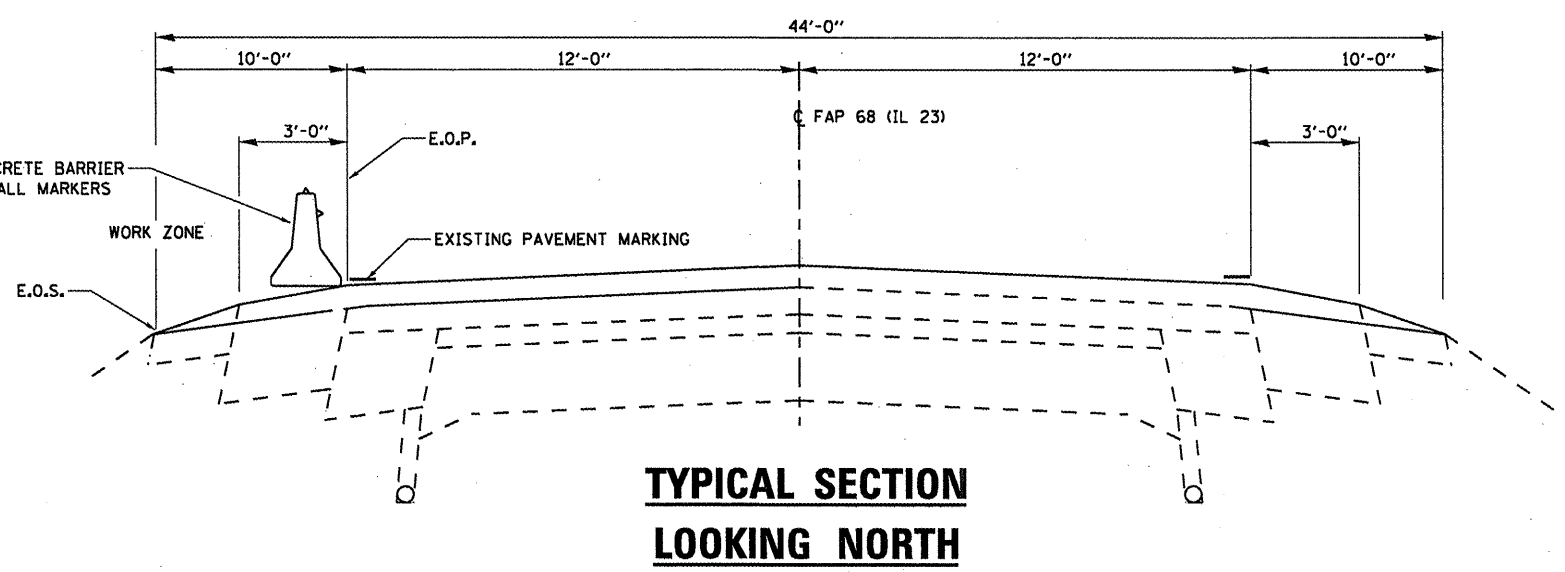
**SCHEDULES**

SCALE: \_\_\_\_\_ SHEET NO. 1 OF 1 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	VARIOUS	VARIOUS	40	6
CONTRACT NO. 66B42				
ILLINOIS FED. AID PROJECT				



**TRAFFIC CONTROL PLAN  
LOCATION 1: SN: 053-2012**



**TYPICAL SECTION  
LOOKING NORTH**

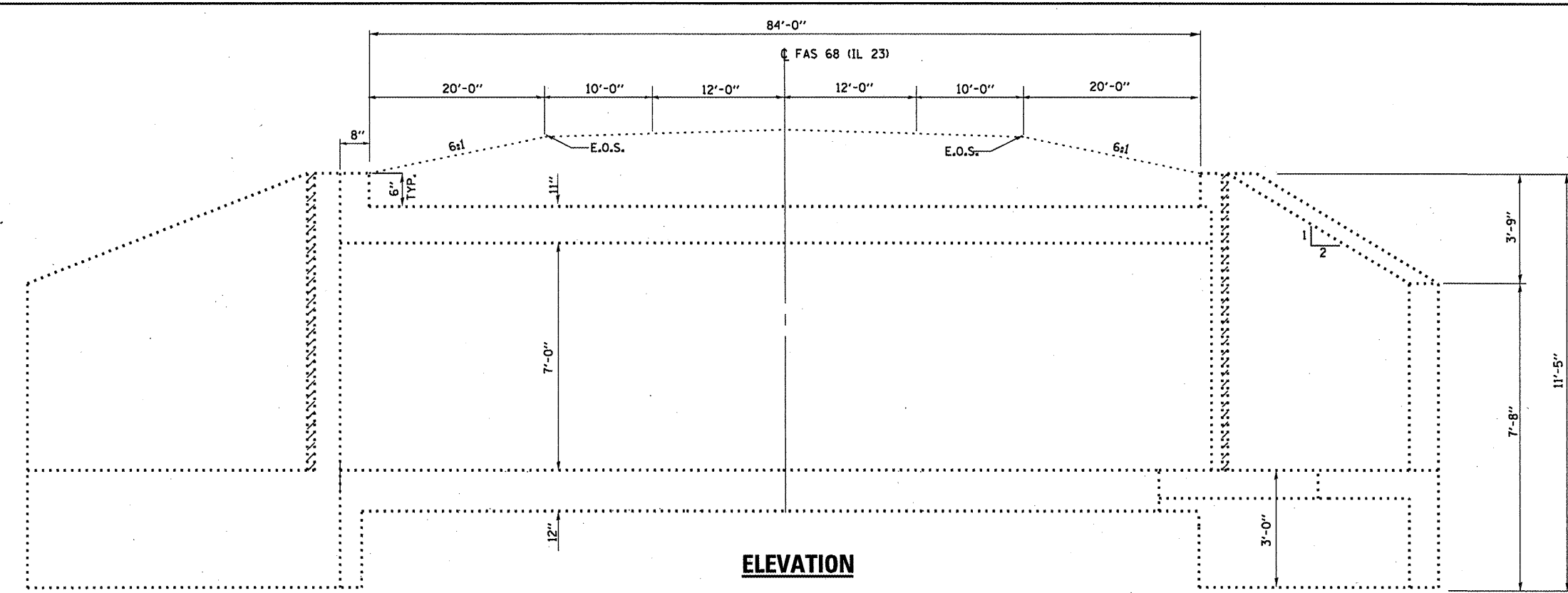
**SYMBOLS**

- 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

\*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**

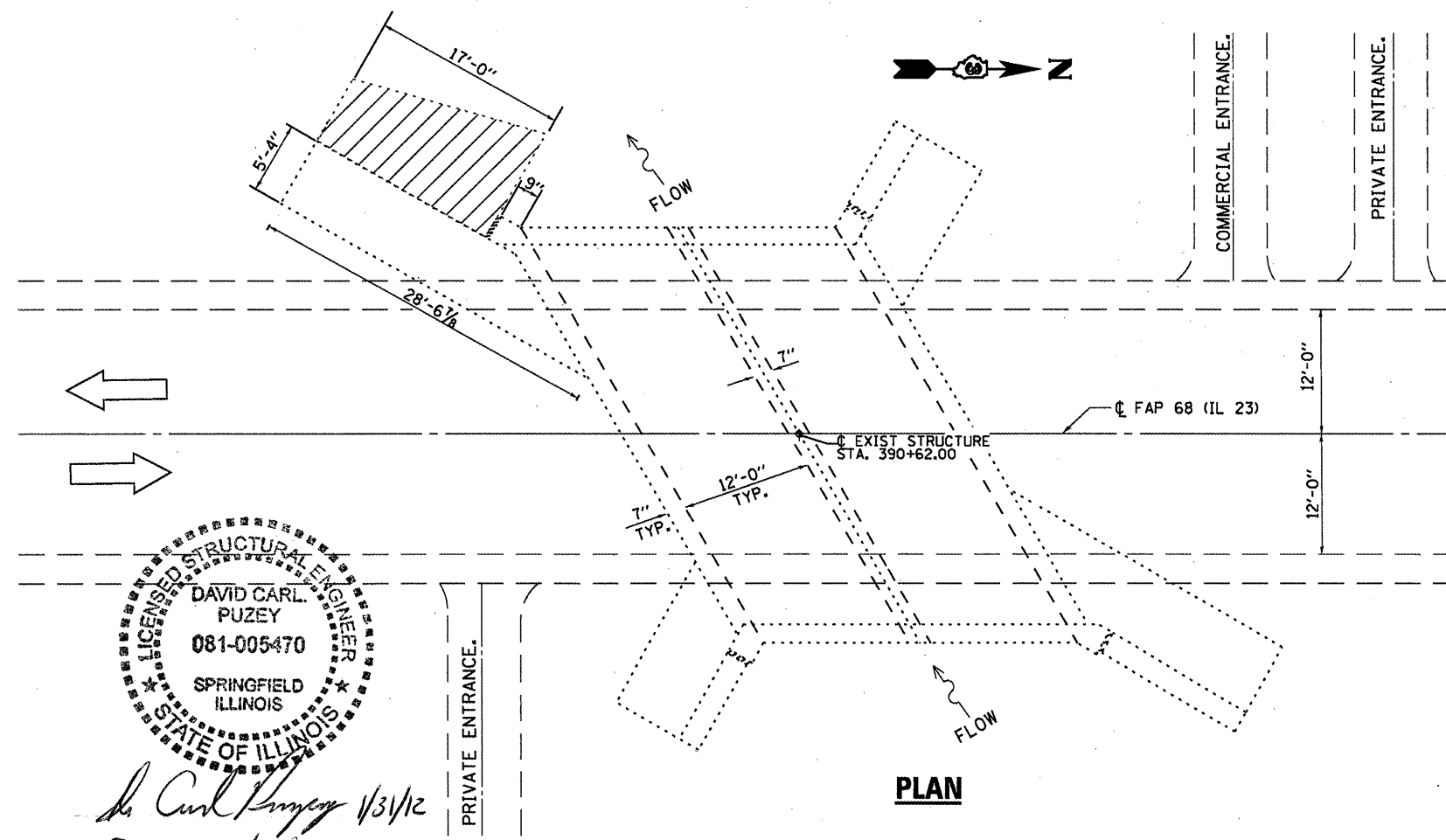
ITEM	UNIT	TOTAL
TEMPORARY CONCRETE BARRIER	FOOT	100
IMP ATTN TEMP SUN TL3	EACH	2



**ELEVATION**

**GENERAL NOTES**

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.

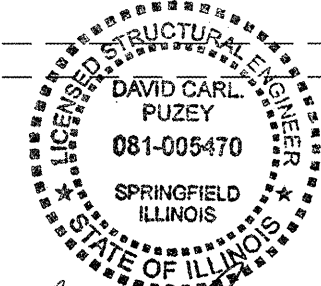


**PLAN**

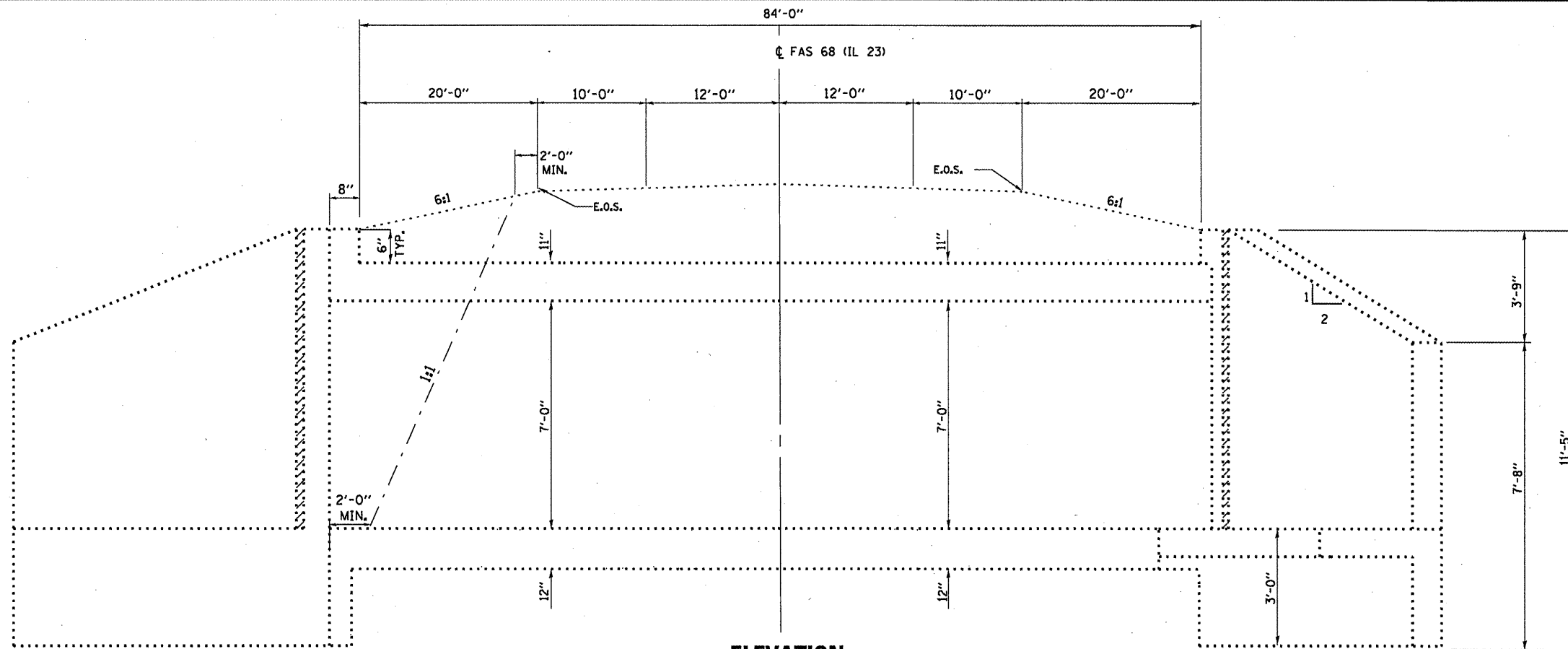
 **DAMAGED WING WALL TO BE REPLACED**

**TOTAL BILL OF MATERIAL**

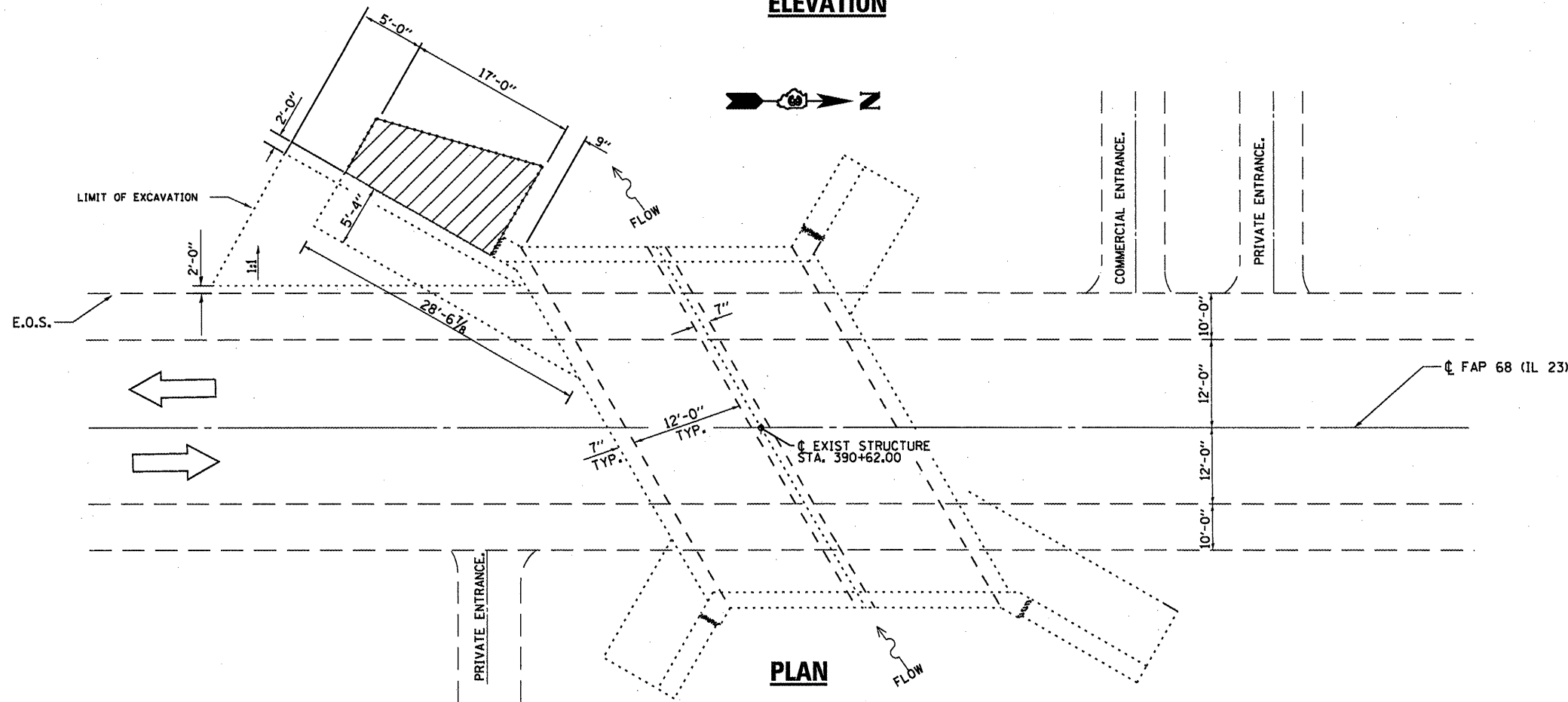
ITEM	UNIT	TOTAL
STRUCTURE EXCAVATION	CU YD	18
EARTH EXCAVATION	CU YD	30
FURNISHED EXCAVATION	CU YD	48
CONCRETE REMOVAL	CU YD	2.8
CONCRETE BOX CULVERTS	CU YD	2.8
REINFORCEMENT BARS (EPOXY COATED)	POUND	351
SHEET WATERPROOFING MEMBRANE SYSTEM	SQ YD	6.0
TEMPORARY CONCRETE BARRIER	FOOT	100
IMP ATTN TEMP SUN TL3	EACH	2



*David Carl Puzey 1/31/12*  
*Expires 11/30/12*



**ELEVATION**



**PLAN**

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
EARTH EXCAVATION	CU YD	30
STRUCTURE EXCAVATION	CU YD	18
FURNISHED EXCAVATION	CU YD	48

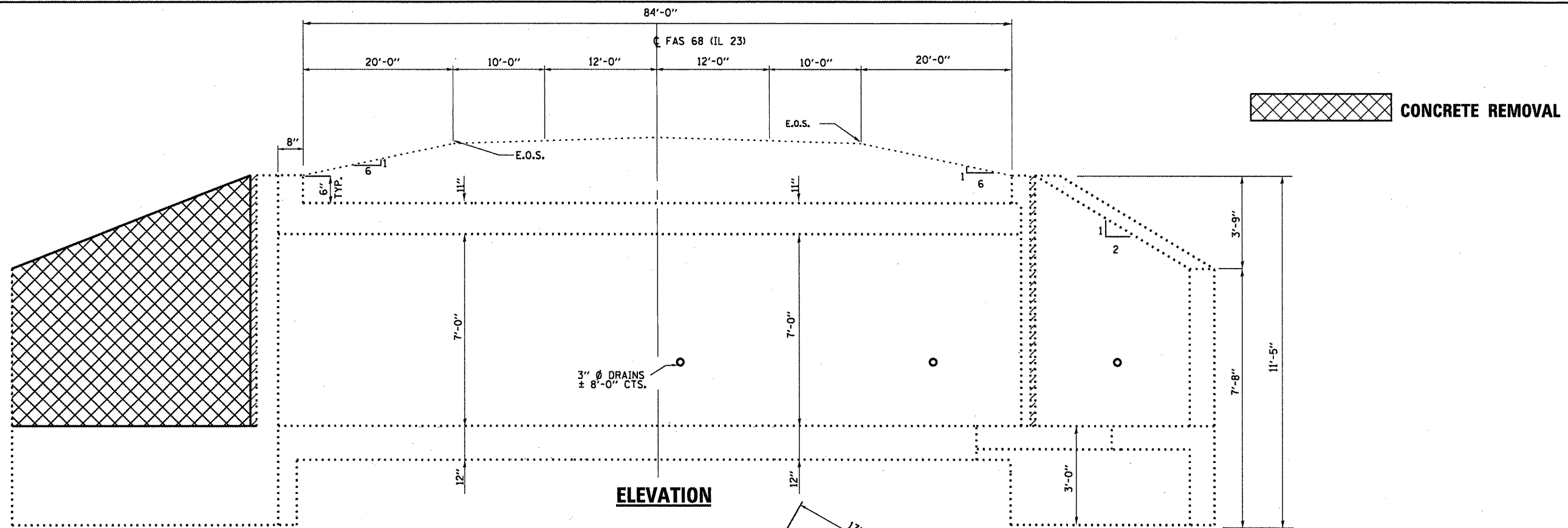
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	PLOT DATE = 12/27/2011	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

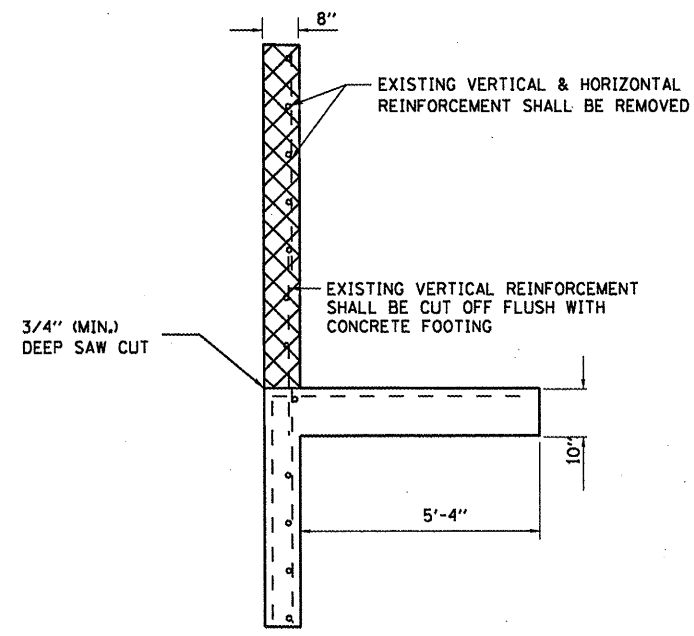
**STRUCTURE EXCAVATION DETAIL  
FOR LOCATION 1: SN 053-2012**

SCALE: SHEET NO. 3 OF 5 SHEETS STA. TO STA.

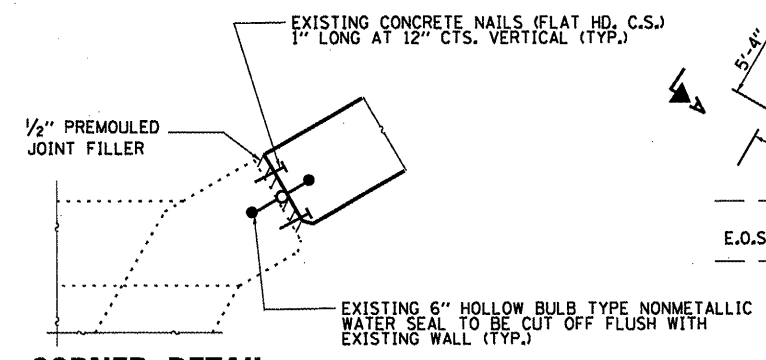
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	VARIOUS	VARIOUS	40	9
			CONTRACT NO. 66B42	
ILLINOIS FED. AID PROJECT				



**ELEVATION**

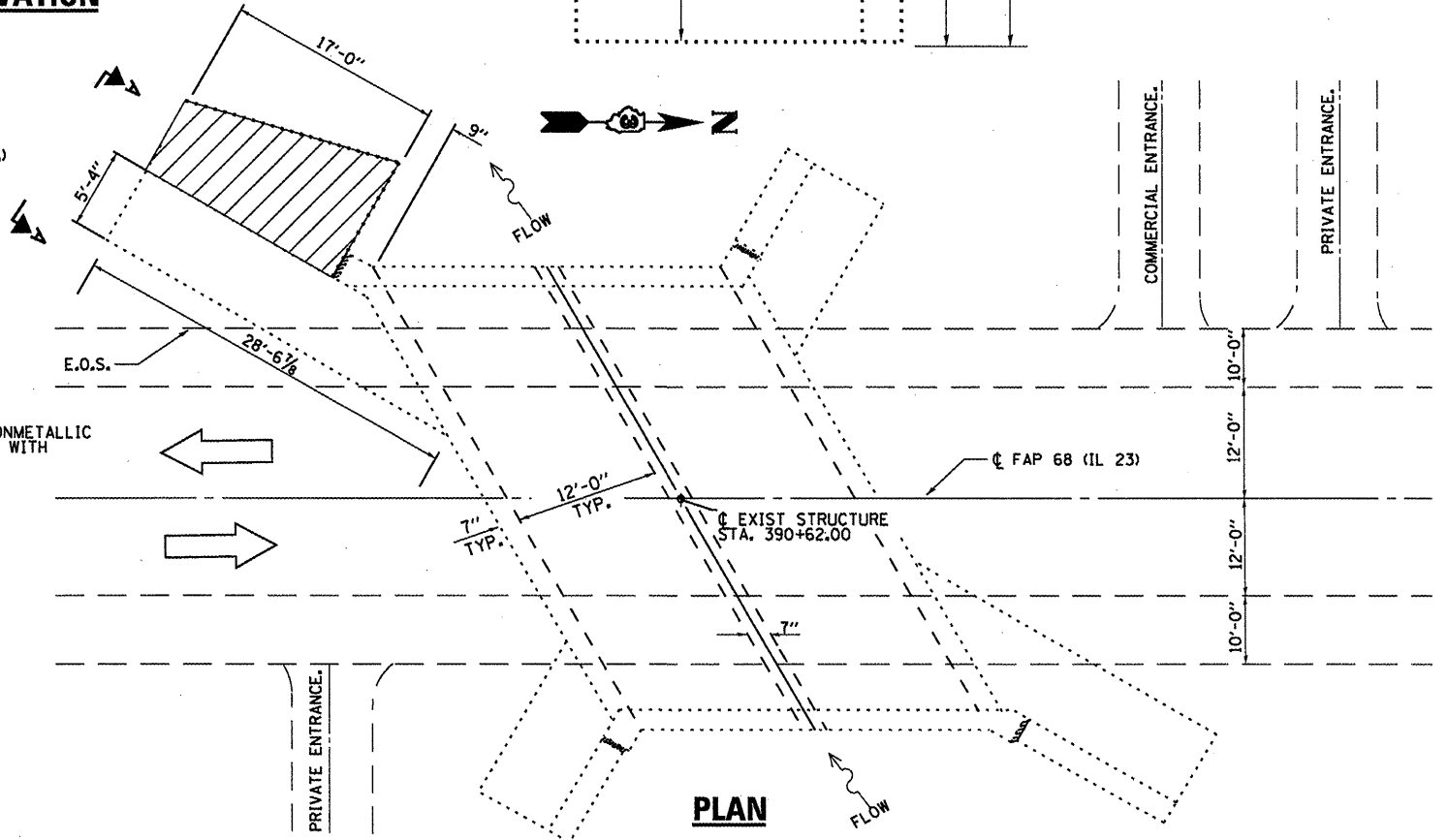


**SECTION A-A**



**CORNER DETAIL**

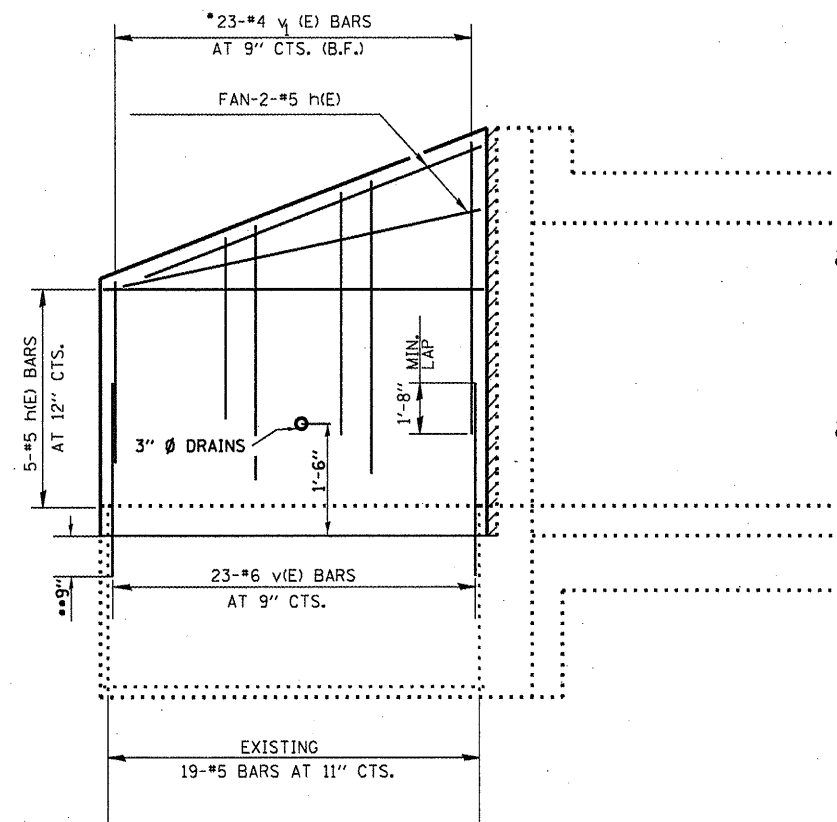
NOTE: REMOVAL TO BE INCLUDED IN THE COST OF "CONCRETE REMOVAL"



**PLAN**

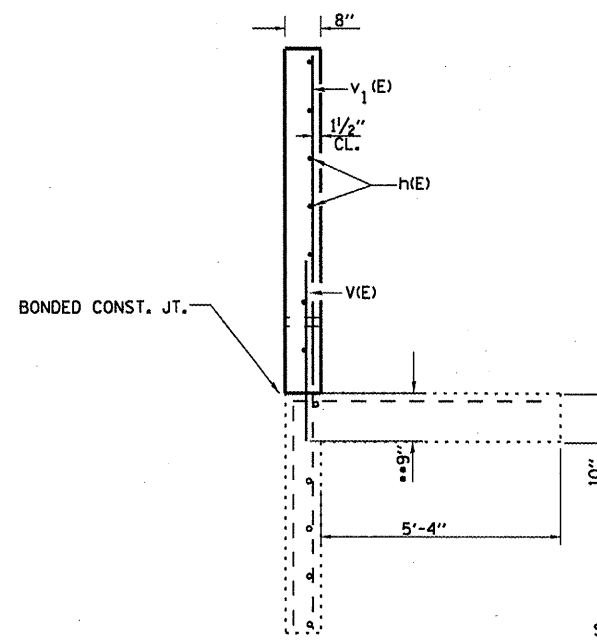
**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	2.8



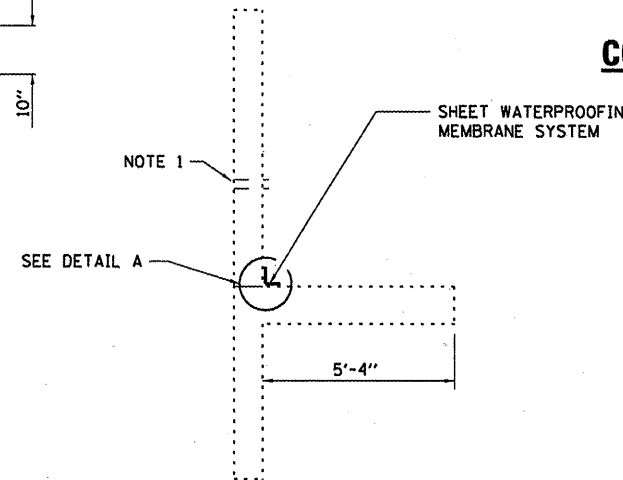
**WING ELEVATION**

\*ORDER v<sub>1</sub>(E) BARS IN FULL LENGTH AND CUT IN FIELD TO FIT.



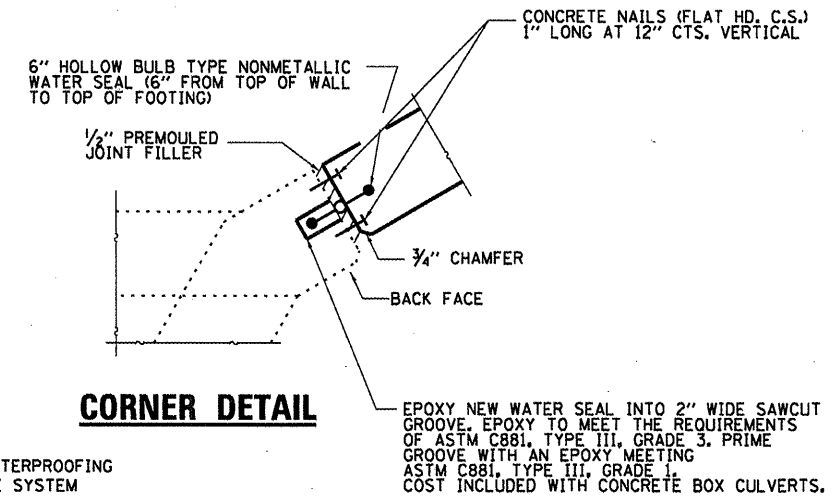
**SECTION A-A**

\*\* DRILL & GROUT v<sub>1</sub>(E) BARS INTO EXISTING CONCRETE FOOTING ACCORDING TO SECTION 584 OF THE STANDARD SPEC.



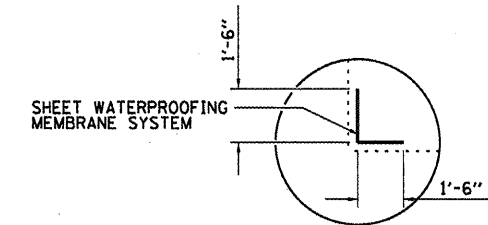
**SECTION A-A**

SHEET WATERPROOFING MEMBRANE SYSTEM

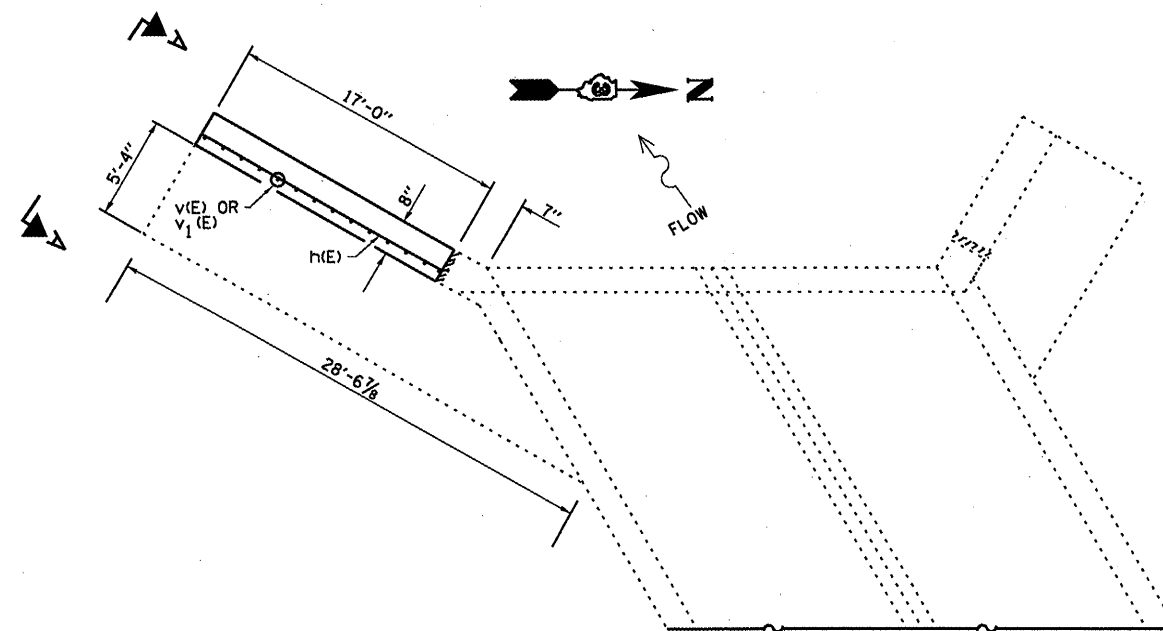


**CORNER DETAIL**

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.



**DETAIL A**



**PARTIAL PLAN**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	7	#5	16'-9"	—
v(E)	23	#6	3'-0"	—
v <sub>1</sub> (E)	23	#4	8'-2"	—
Concrete Box Culverts			Cu. Yd.	2.8
Reinforcement Bars			Pound	351
Sheet Waterproofing Membrane System			Sq. Yd.	6.0

FILE NAME =	USER NAME = patel.j	DESIGNED - YOGESH PATEL	REVISED -
c:\pwork\puidot\patel.j\02265509\036642-sheets.dgn		DRAWN - YOGESH PATEL	REVISED -
		CHECKED - RON WOODSHANK	REVISED -
		DATE -	REVISED -

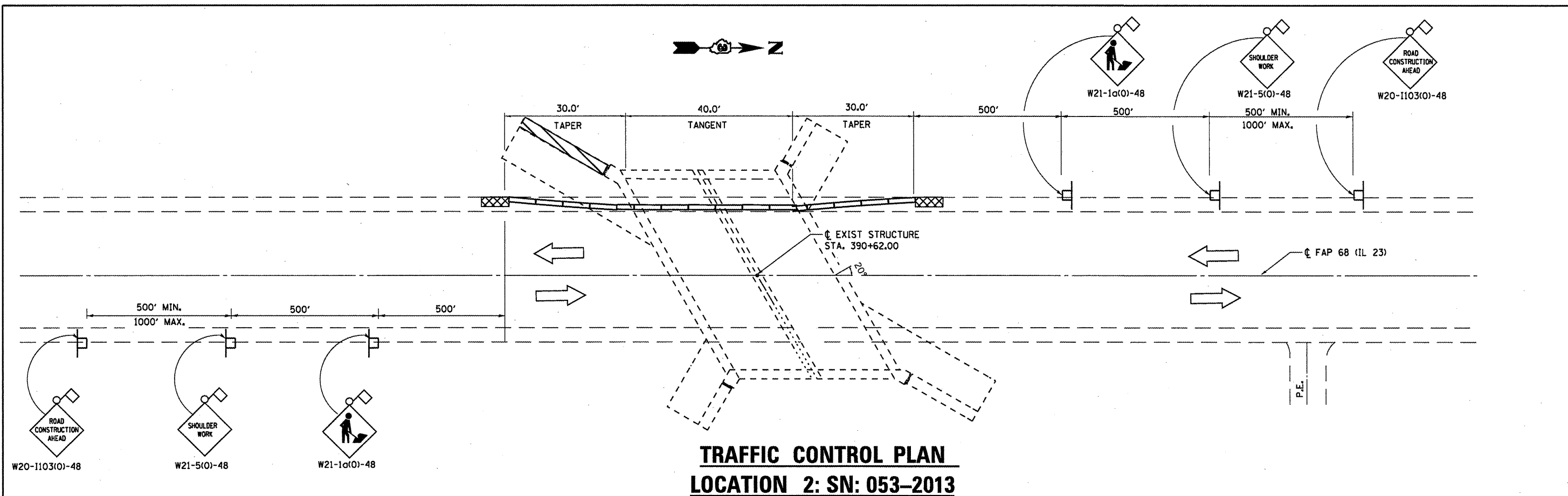
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**RECONSTRUCTION DETAILS  
FOR LOCATION 1: SN 053-2012**

SCALE: SHEET NO. 5 OF 5 SHEETS STA. TO STA.

F.A.P. RTE. VAR.	SECTION VARIOUS	COUNTY VARIOUS	TOTAL SHEETS 40	SHEET NO. 11
			CONTRACT NO. 66B42	
ILLINOIS FED. AID PROJECT				



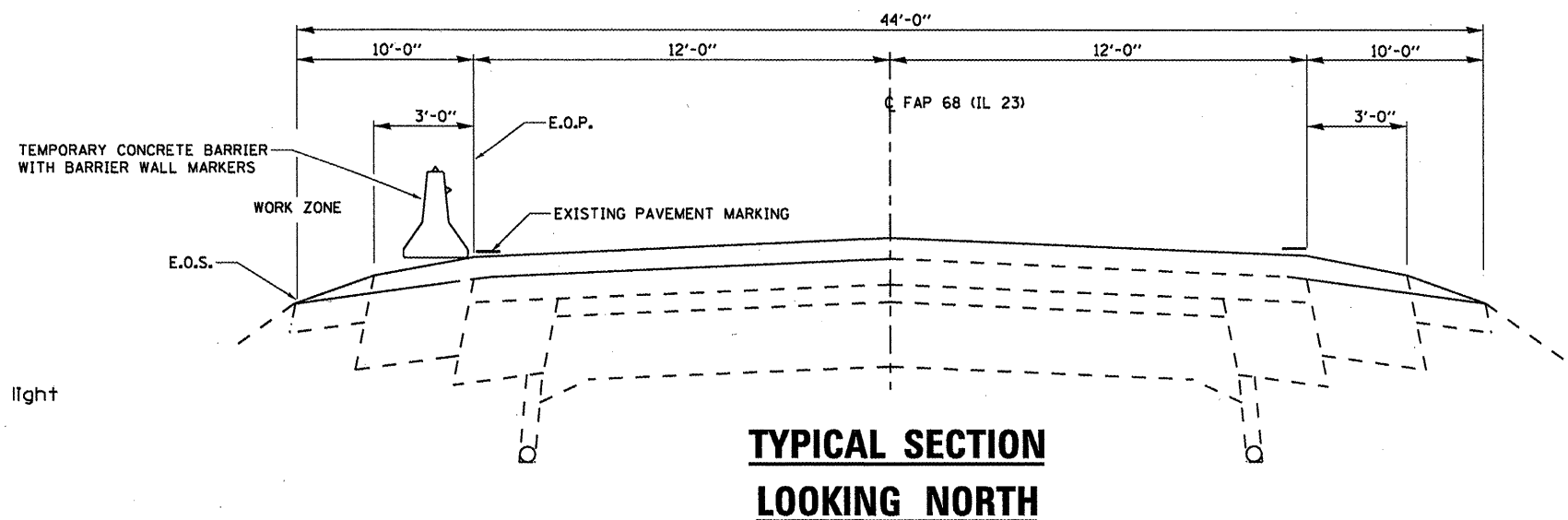


**DAMAGED WING WALL TO BE REPLACED**

**SYMBOLS**

- |                             |  |
|-----------------------------|--|
| Work area                   | Drum with steady burning bi-directional light        |
| Sign                        | Temporary concrete barrier                           |
| Type III barricade          | Double vertical panel (see detail)                   |
| Traffic signal w/Back Plate | Crystal, bidirectional barrier wall/guardrail marker |
| Impact attenuator           |  |

\*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	100
RELOCATE IMP ATTN TEMP SUN TL3	EACH	2

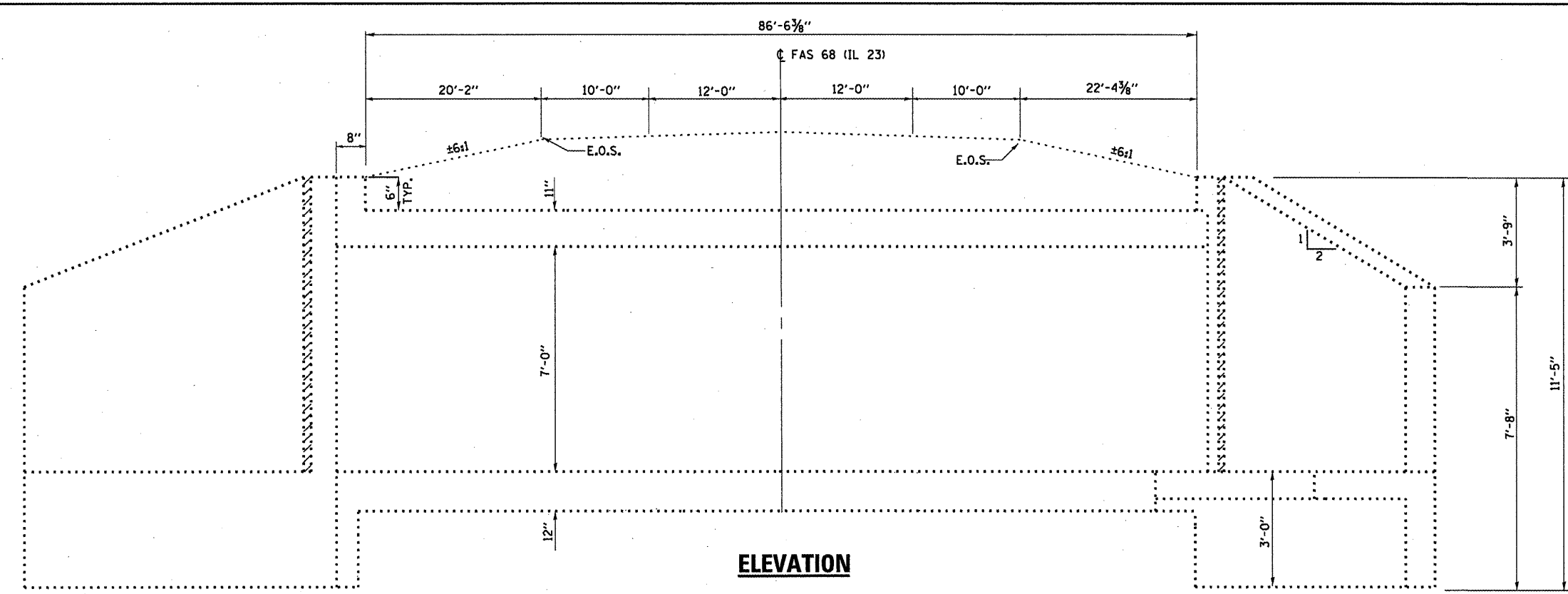
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PLOT DATE = 12/27/2011		DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL PLAN**  
**FOR LOCATION 2: 053-2013**

SCALE: \_\_\_\_\_ SHEET NO. 1 OF 5 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

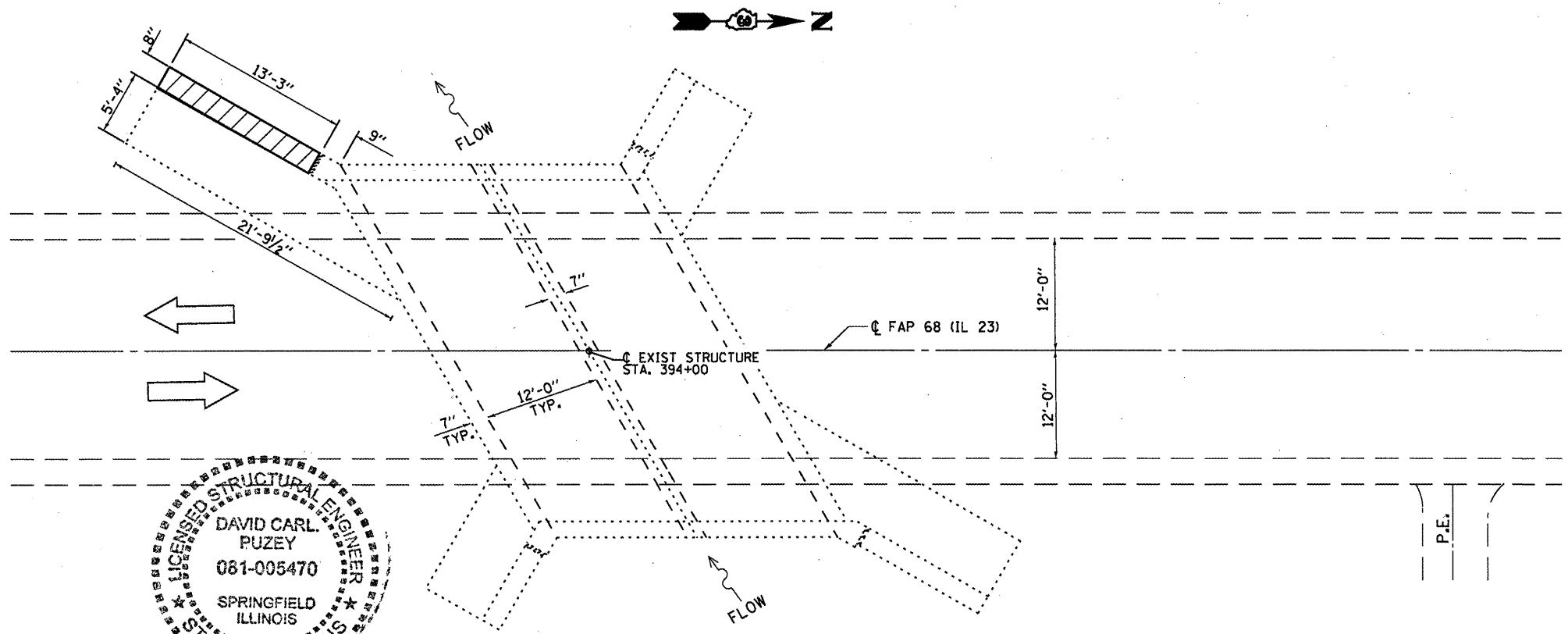
F.A.P. RTE. VAR	SECTION VARIOUS	COUNTY VARIOUS	TOTAL SHEETS 40	SHEET NO. 12
			CONTRACT NO. 66B42	
ILLINOIS FED. AID PROJECT				



**ELEVATION**

**GENERAL NOTES**

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.

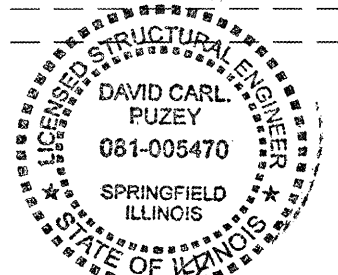


**PLAN**

**DAMAGED WING WALL TO BE REPLACED**

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
STRUCTURE EXCAVATION	CU YD	18
EARTH EXCAVATION	CU YD	30
FURNISHED EXCAVATION	CU YD	48
CONCRETE REMOVAL	CU YD	2.1
CONCRETE BOX CULVERTS	CU YD	2.1
REINFORCEMENT BARS (EPOXY COATED)	POUND	274
SHEET WATERPROOFING MEMBRANE SYSTEM	SQ YD	5.0
RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	100
RELOCATE IMP ATTN TEMP SUN TL3	EACH	2



*David Carl Puzey* 1/31/12  
 Expires 11/30/12

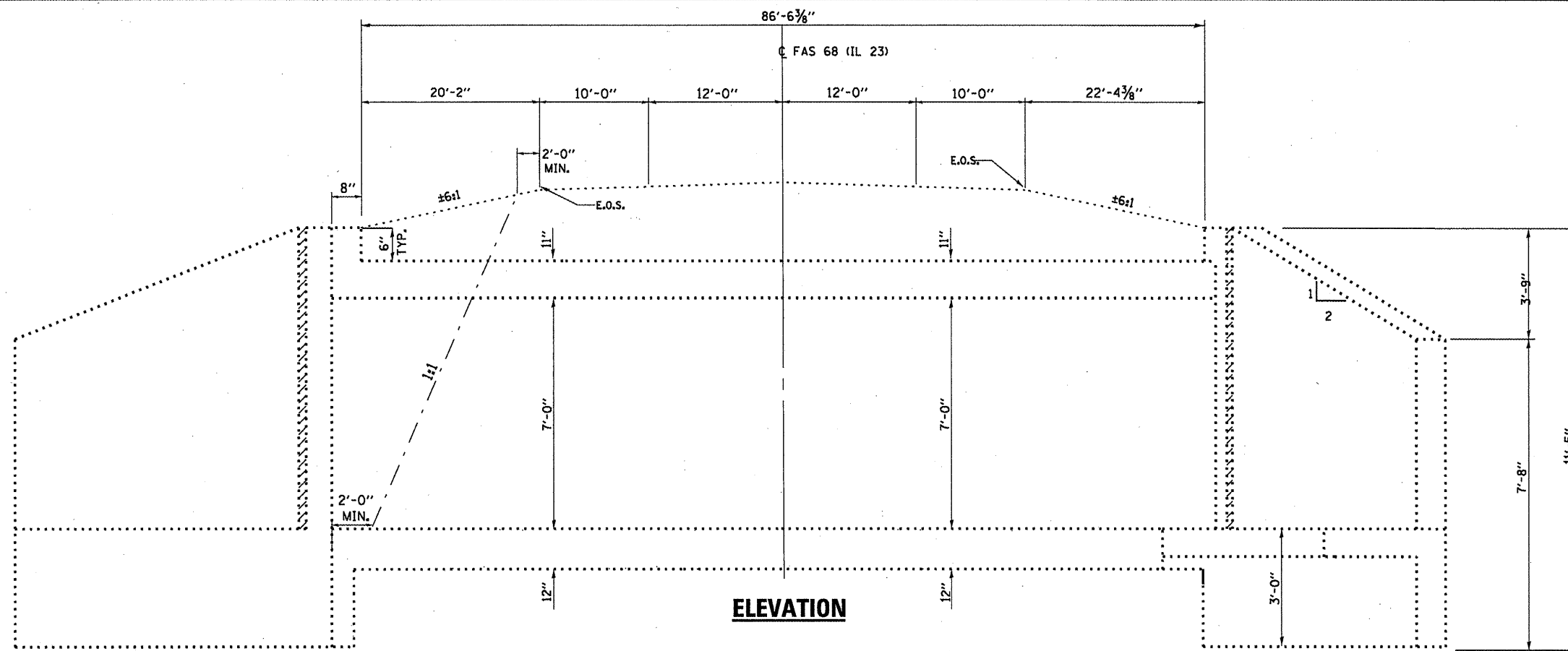
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	PLOT DATE = 12/27/2011	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

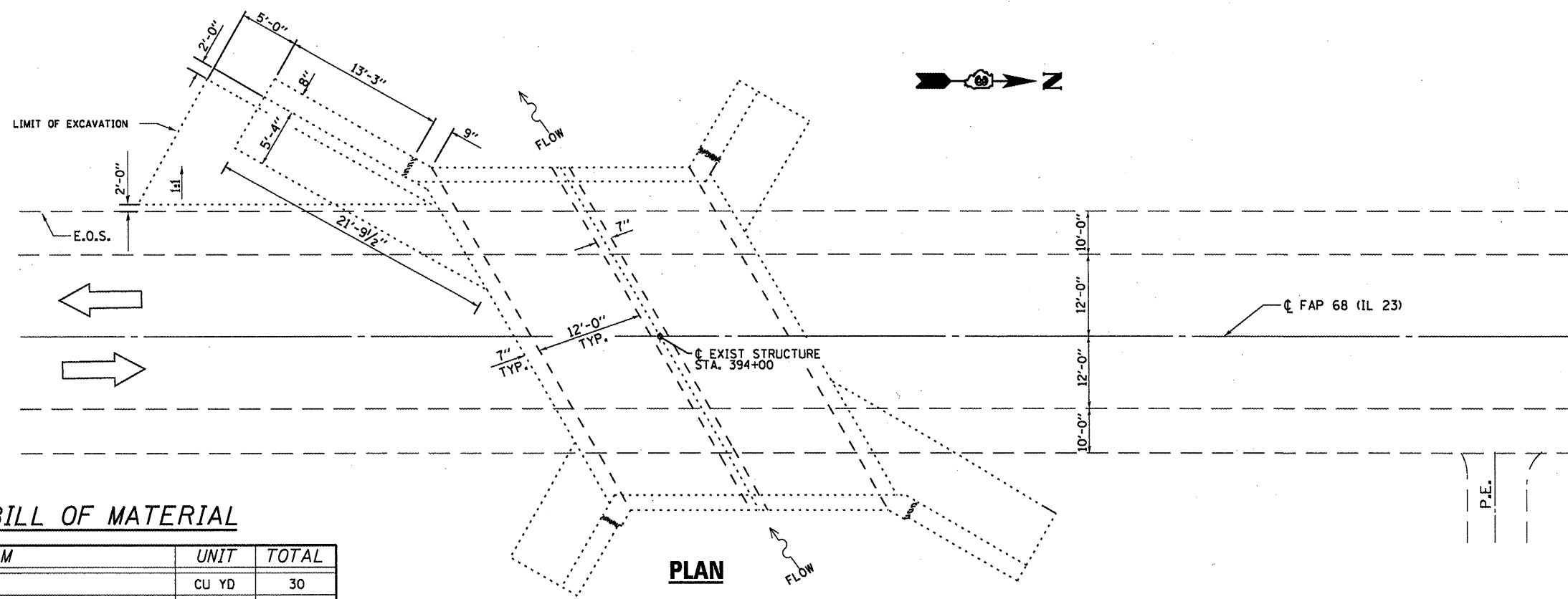
**GENERAL PLAN AND ELEVATION  
 FOR LOCATION 2: SN 053-2013**

F.A.P. RTE. VAR.	SECTION VARIOUS	COUNTY VARIOUS	TOTAL SHEETS 40	SHEET NO. 13
			CONTRACT NO. 66B42	
ILLINOIS FED. AID PROJECT				

SCALE: \_\_\_\_\_ SHEET NO. 2 OF 5 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_



**ELEVATION**



**PLAN**

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
EARTH EXCAVATION	CU YD	30
STRUCTURE EXCAVATION	CU YD	18
FURNISHED EXCAVATION	CU YD	48

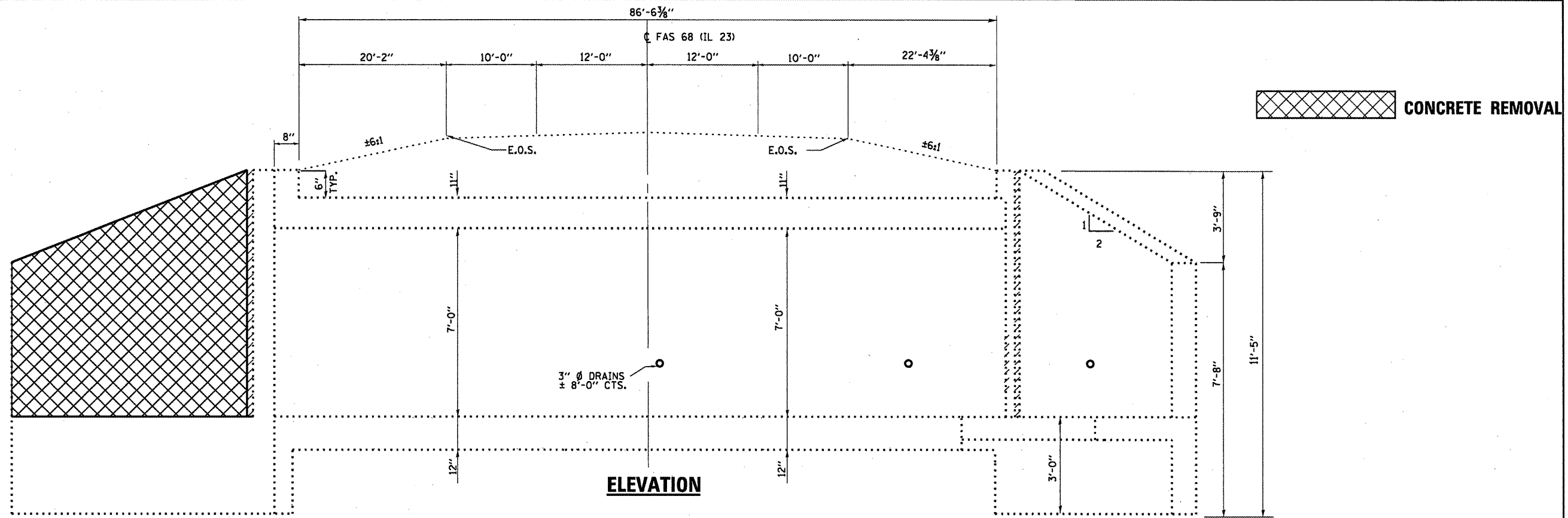
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PLOT DATE = 12/27/2011		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**STRUCTURE EXCAVATION DETAIL  
FOR LOCATION 2: SN 053-2013**

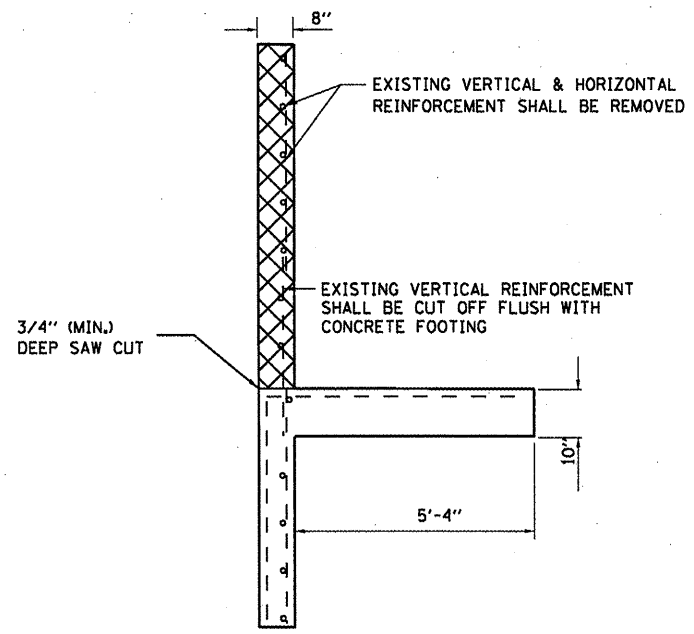
SCALE: \_\_\_\_\_ SHEET NO. 3 OF 5 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE. VAR.	SECTION VARIOUS	COUNTY VARIOUS	TOTAL SHEETS 40	SHEET NO. 14
			CONTRACT NO. 66B42	
ILLINOIS FED. AID PROJECT				

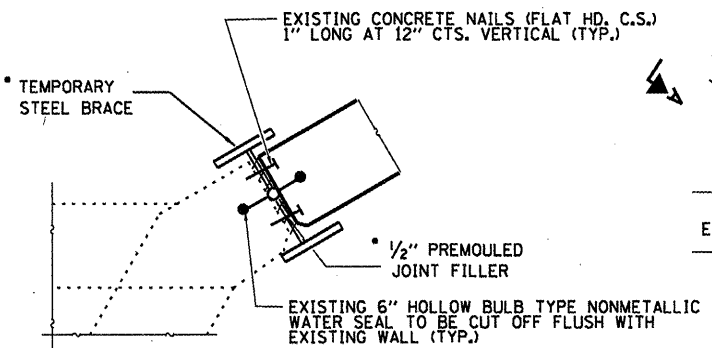


CONCRETE REMOVAL

**ELEVATION**

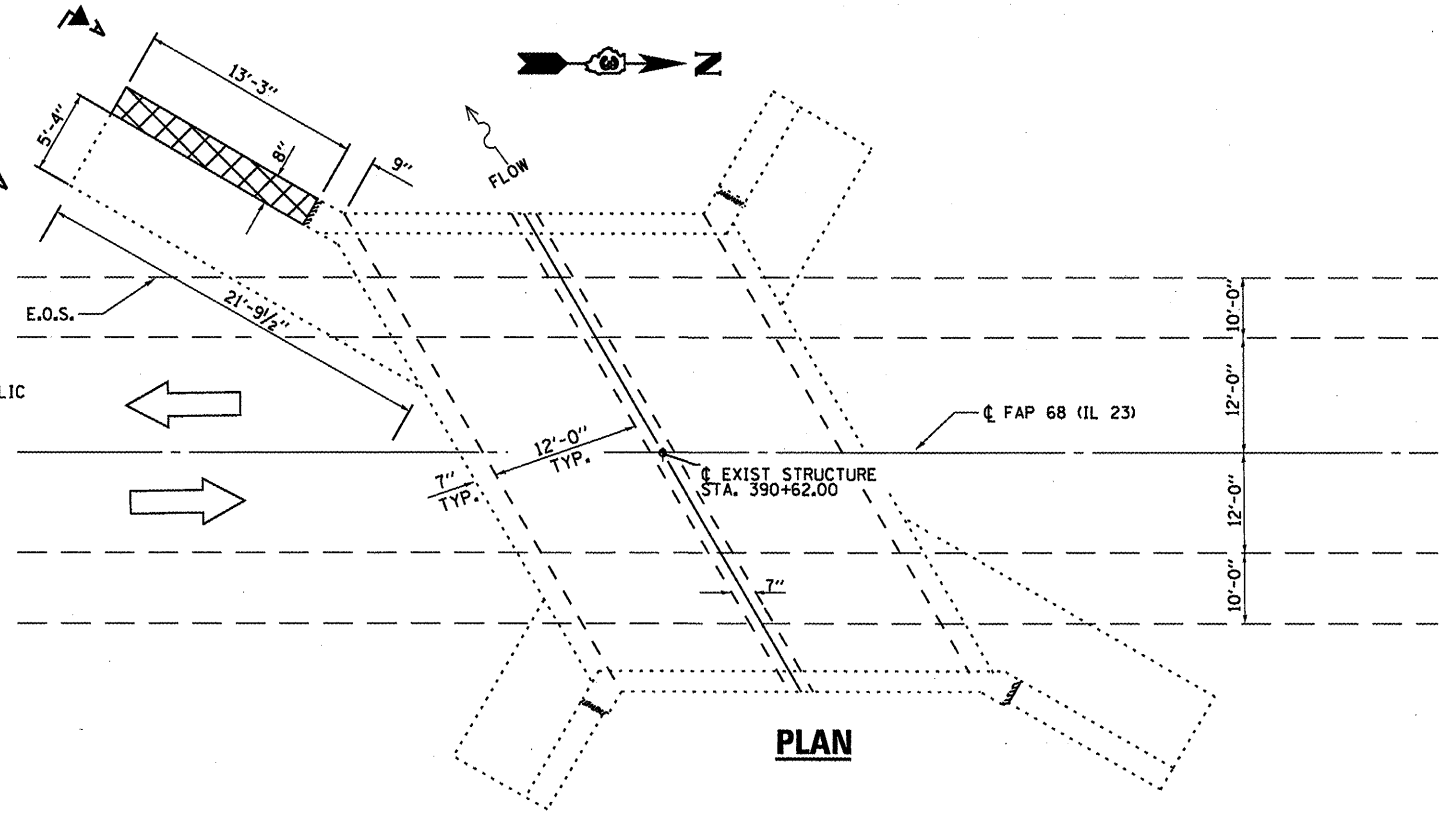


**SECTION A-A**



**CORNER DETAIL**

REMOVAL TO BE INCLUDED IN THE COST OF "CONCRETE REMOVAL"



**PLAN**

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	2.1

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 PLOT DATE = 12/27/2011

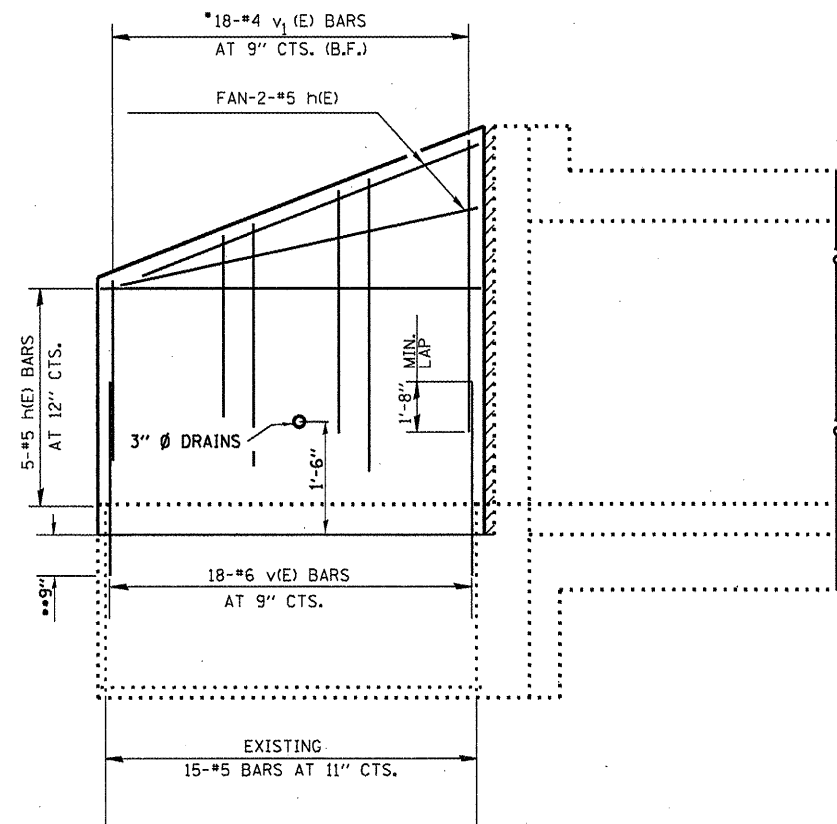
DESIGNED - YOGESH PATEL  
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 CHECKED - RON WOODSHANK  
 DATE -

REVISED -  
 REVISED -  
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 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

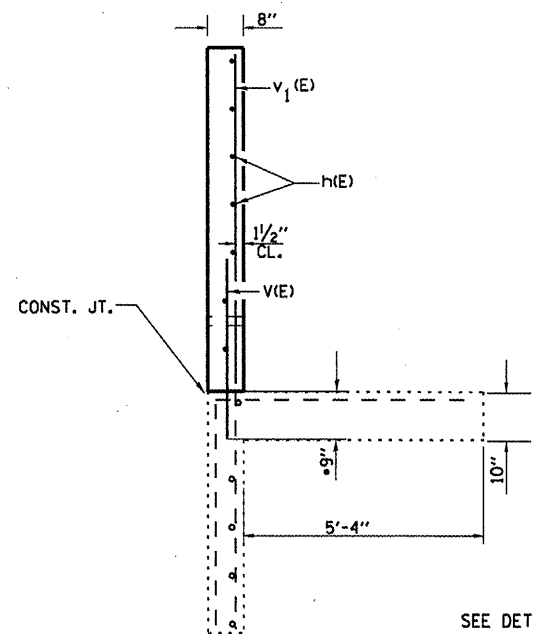
**CONCRETE REMOVAL DETAILS  
 FOR LOCATION 2: SN 053-2013**  
 SCALE: SHEET NO. 4 OF 5 SHEETS STA. TO STA.

F.A.P. RTE. VAR.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	VARIOUS	VARIOUS	40	15
CONTRACT NO. 66B42			ILLINOIS FED. AID PROJECT	



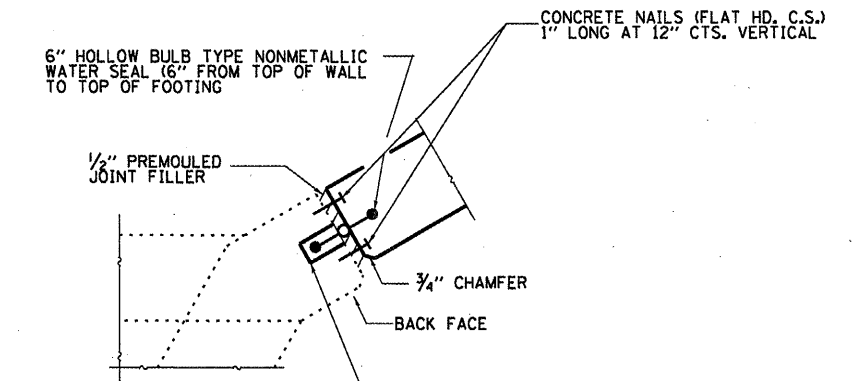
**WING ELEVATION**

\*ORDER  $v_1(E)$  BARS IN FULL LENGTH AND CUT IN FIELD TO FIT.



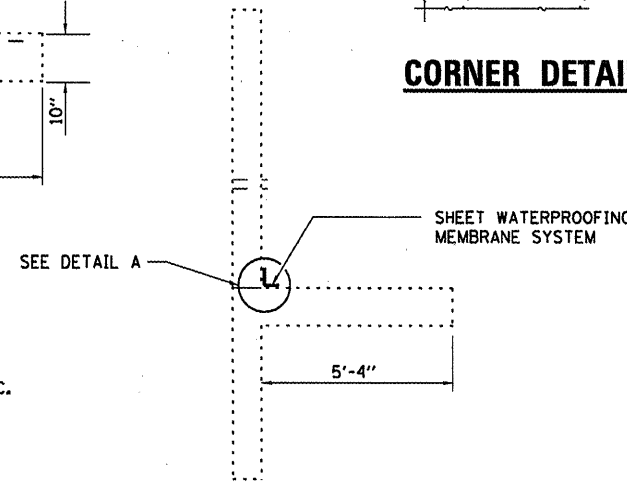
**SECTION A-A**

\*\* DRILL & GROUT  $v(E)$  BARS INTO EXISTING CONCRETE FOOTING ACCORDING TO SECTION 584 OF THE STANDARD SPEC.



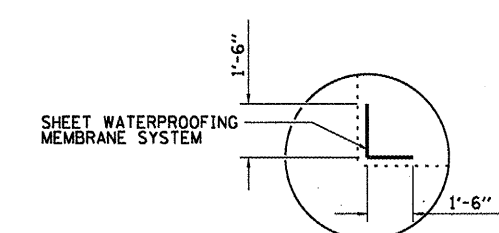
**CORNER DETAIL**

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.

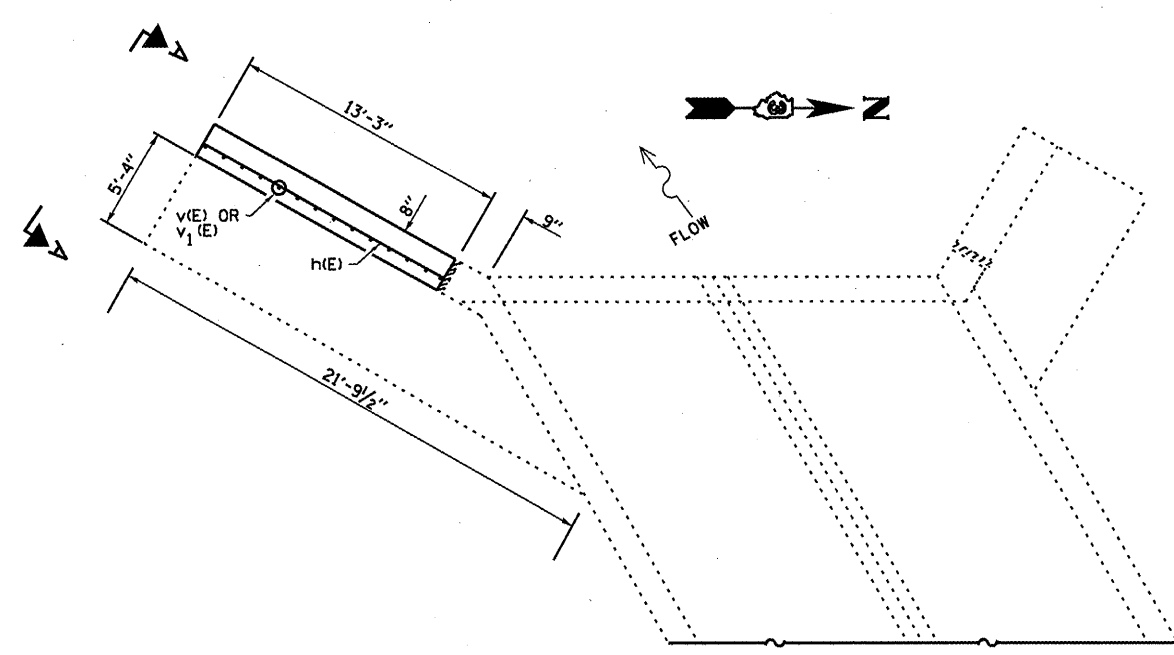


**SECTION A-A**

SHEET WATERPROOFING MEMBRANE SYSTEM



**DETAIL A**



**PARTIAL PLAN**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
$h(E)$	7	#5	13'-0"	—
$v(E)$	18	#6	3'-0"	—
$v_1(E)$	18	#4	8'-2"	—
Concrete Box Culverts	Cu. Yd.		2.1	
Reinforcement Bars	Pound		274	
Sheet Waterproofing Membrane System	Sq. Yd.		5.0	

FILE NAME =	USER NAME = patelijj	DESIGNED - YOGESH PATEL	REVISED -
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PLOT SCALE = 100.0000' / 1"		CHECKED - RON WOODSHANK	REVISED -
PLOT DATE = 12/27/2011		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**RECONSTRUCTION DETAILS  
FOR LOCATION 2: SN 053-2013**

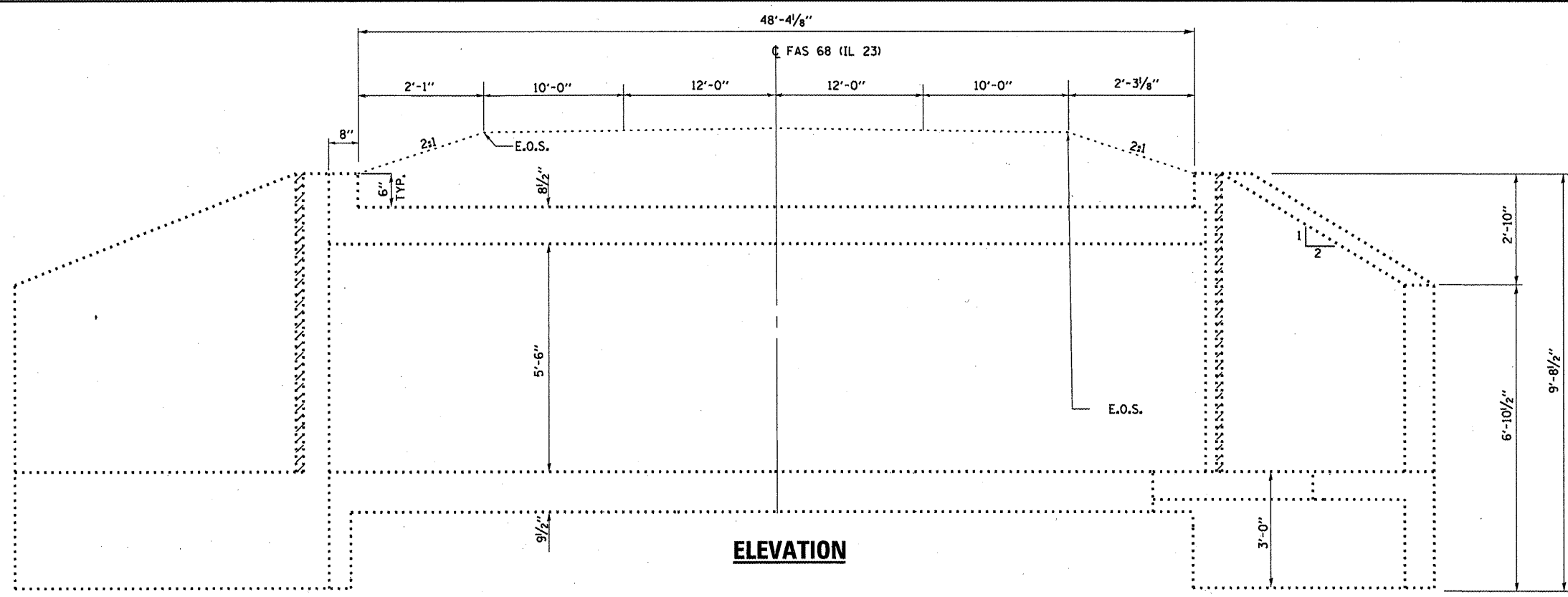
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	VARIOUS	VARIOUS	40	16
			CONTRACT NO. 66B42	
ILLINOIS FED. AID PROJECT				

**GENERAL NOTES**

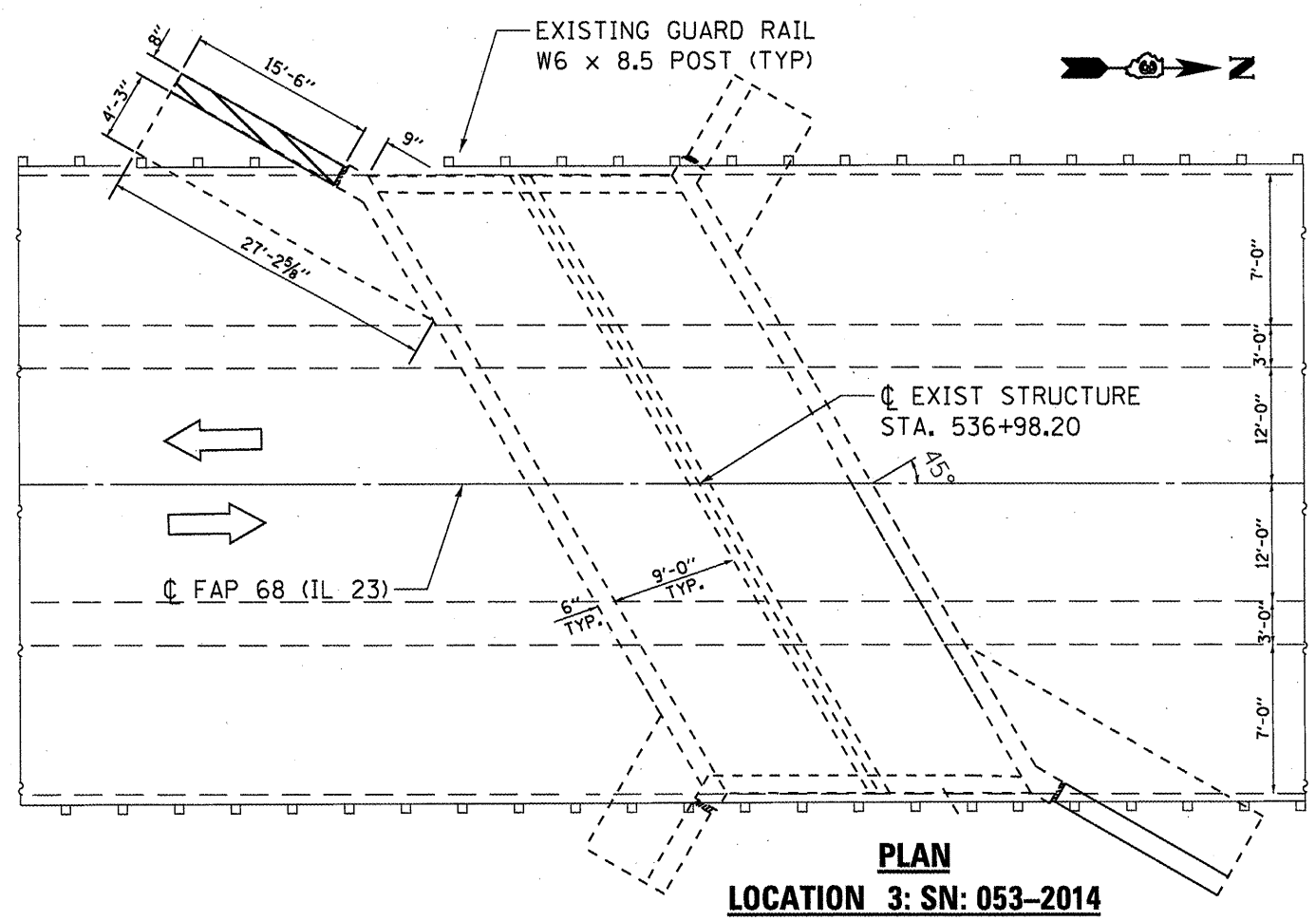
REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

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

TRAFFIC CONTROL AND PROTECTION PLAN FOR THIS LOCATION SHALL BE ACCORDING TO TRAFFIC CONTROL AND PROTECTION STANDARD(S) 701321 AND 704001.



**ELEVATION**

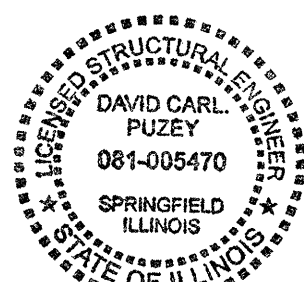


**PLAN  
LOCATION 3: SN: 053-2014**

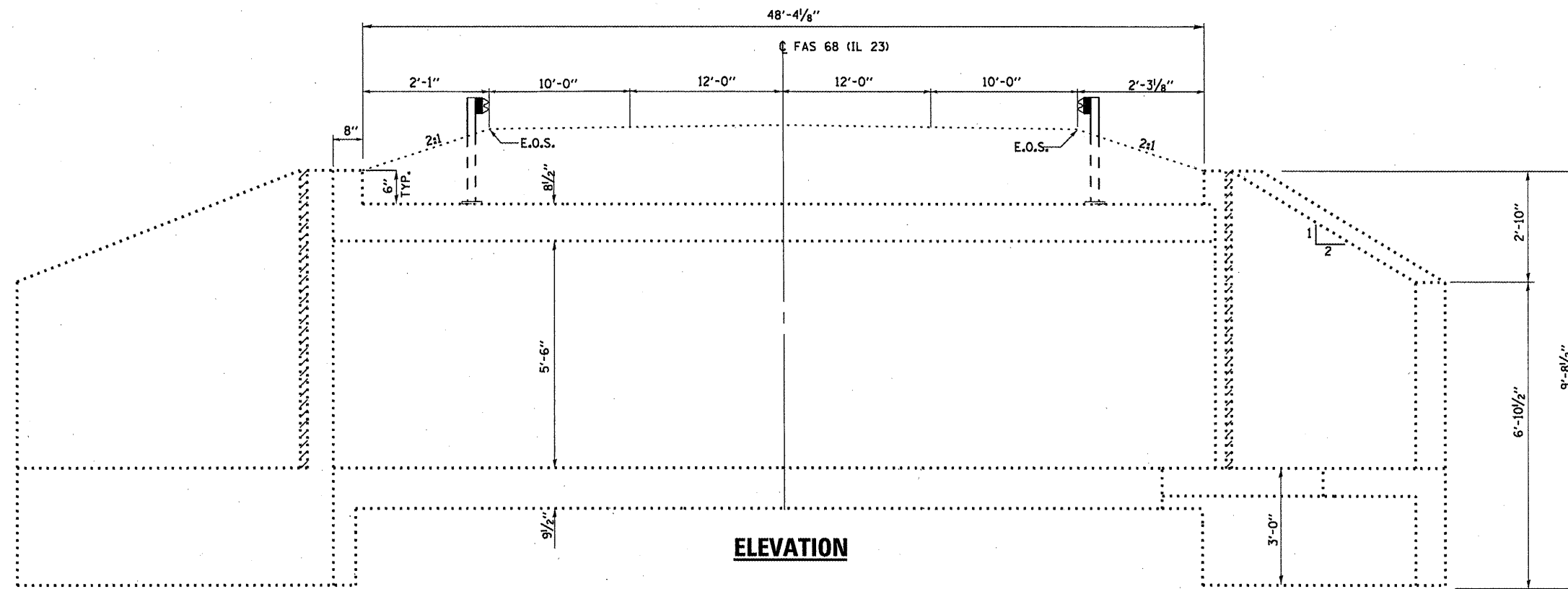
 **DAMAGED WING WALL  
TO BE REPLACED**

**TOTAL BILL OF MATERIAL**

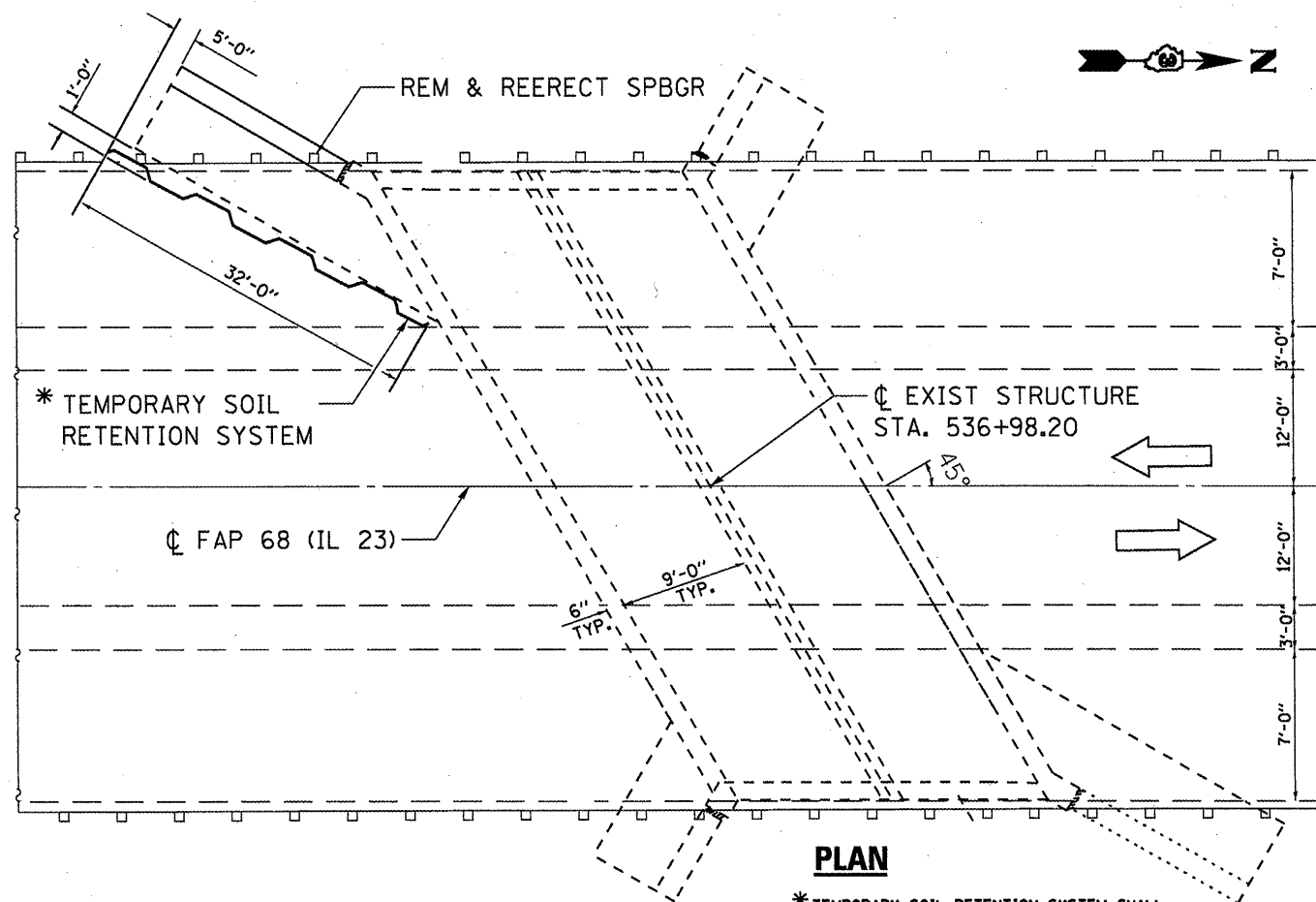
ITEM	UNIT	TOTAL
STRUCTURE EXCAVATION	CU YD	9
EARTH EXCAVATION	CU YD	15
FURNISHED EXCAVATION	CU YD	24
AGGREGATE SHOULDERS, TYPE B	CU YD	3.0
CONCRETE REMOVAL	CU YD	2.0
CONCRETE BOX CULVERTS	CU YD	2.0
REINFORCEMENT BARS (EPOXY COATED)	POUND	237
SHEET WATERPROOFING MEMBRANE SYSTEM	SQ YD	6.0
TEMPORARY SOIL RETENTION SYSTEM	SQ FT	576
REMOVE & REERECT STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	37.5
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	18.0



*David Carl Puzey 1/31/12*  
*Expires 11/30/12*



**ELEVATION**



**PLAN**

\* TEMPORARY SOIL RETENTION SYSTEM SHALL BE INSTALLED IN A MANNER AS NOT TO ENROACH ON ANY PAVED PAVEMENT.

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
TEMPORARY SOIL RETENTION SYSTEM	SQ FT	576
REMOVE & REERECT STEEL PLATE BEAM GUARD RAIL, TYPE A	FT	37.5

FILE NAME =	USER NAME = petaluj	DESIGNED - YOGESH PATEL	REVISED -
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	PLOT DATE = 12/27/2011	DATE -	REVISED -

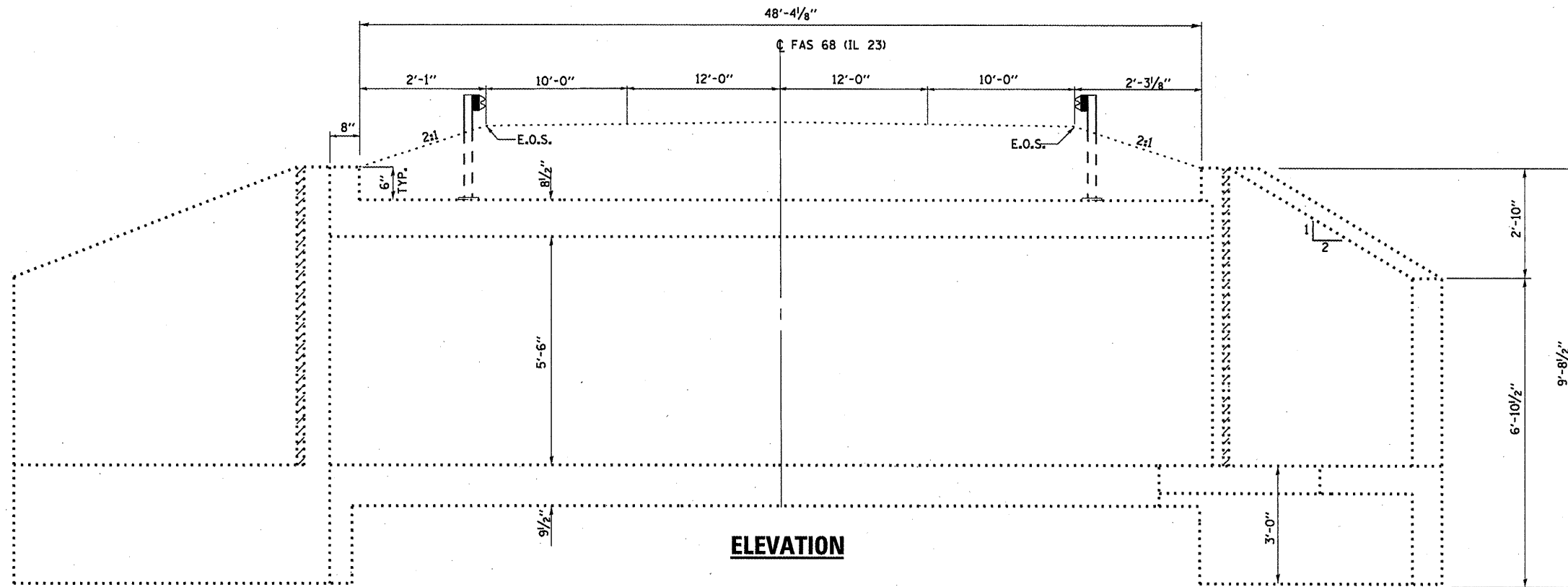
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**TEMPORARY SOIL RETENTION SYSTEM FOR LOCATION 3: 053-2014**

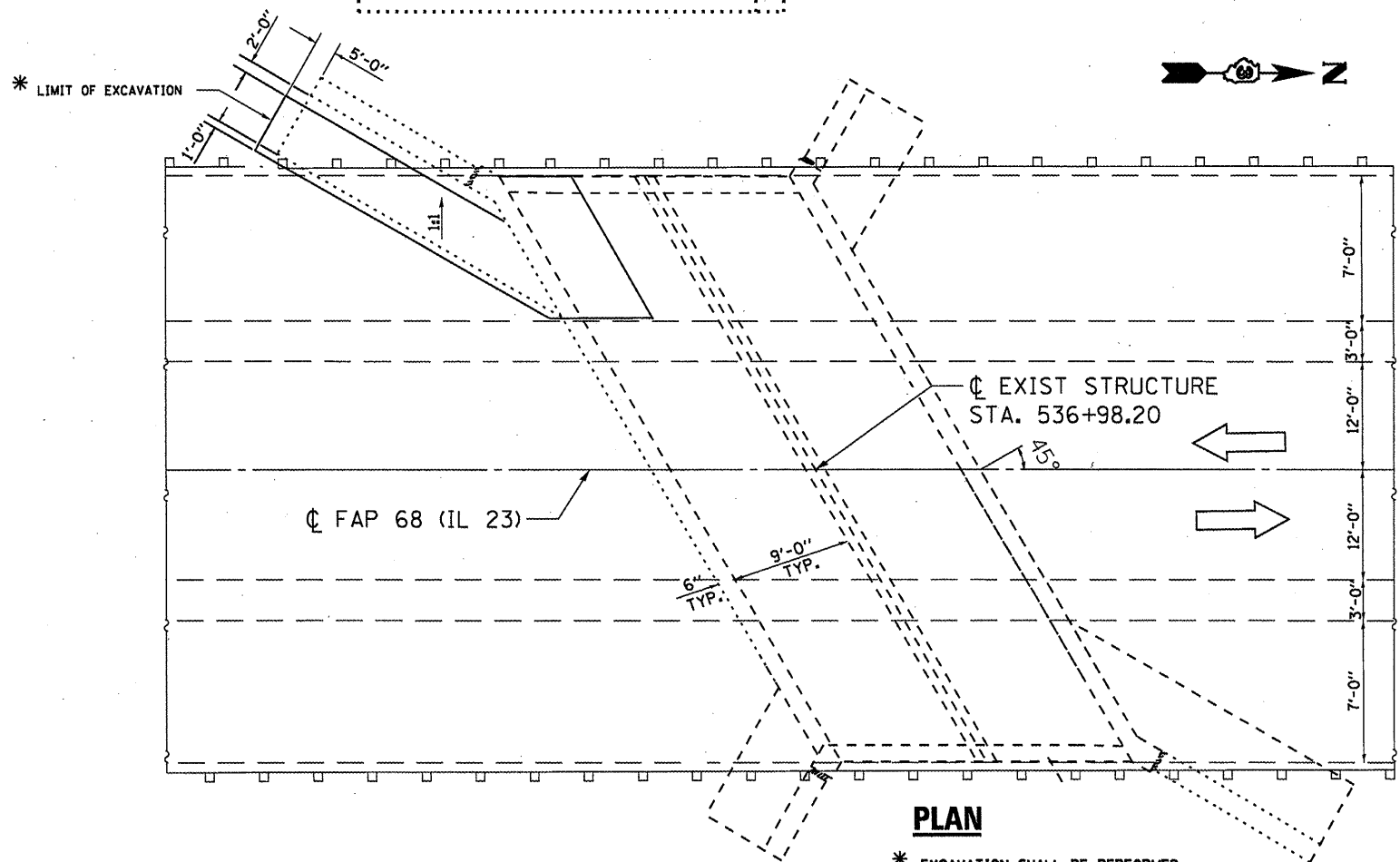
SCALE: SHEET NO. 2 OF 6 SHEETS STA. TO STA.

F.A.P. RTE. VAR.	SECTION VARIOUS	COUNTY VARIOUS	TOTAL SHEETS 40	SHEET NO. 18
			CONTRACT NO. 66B42	
ILLINOIS FED. AID PROJECT				





**ELEVATION**



**PLAN**

\* EXCAVATION SHALL BE PERFORMED  
IN A MANNER AS NOT TO ENROACH  
ON ANY PAVED PAVEMENT.

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
EARTH EXCAVATION	CU YD	15
STRUCTURE EXCAVATION	CU YD	9
FURNISHED EXCAVATION	CU YD	24
AGGREGATE SHOULDERS, TYPE B	CU YD	3

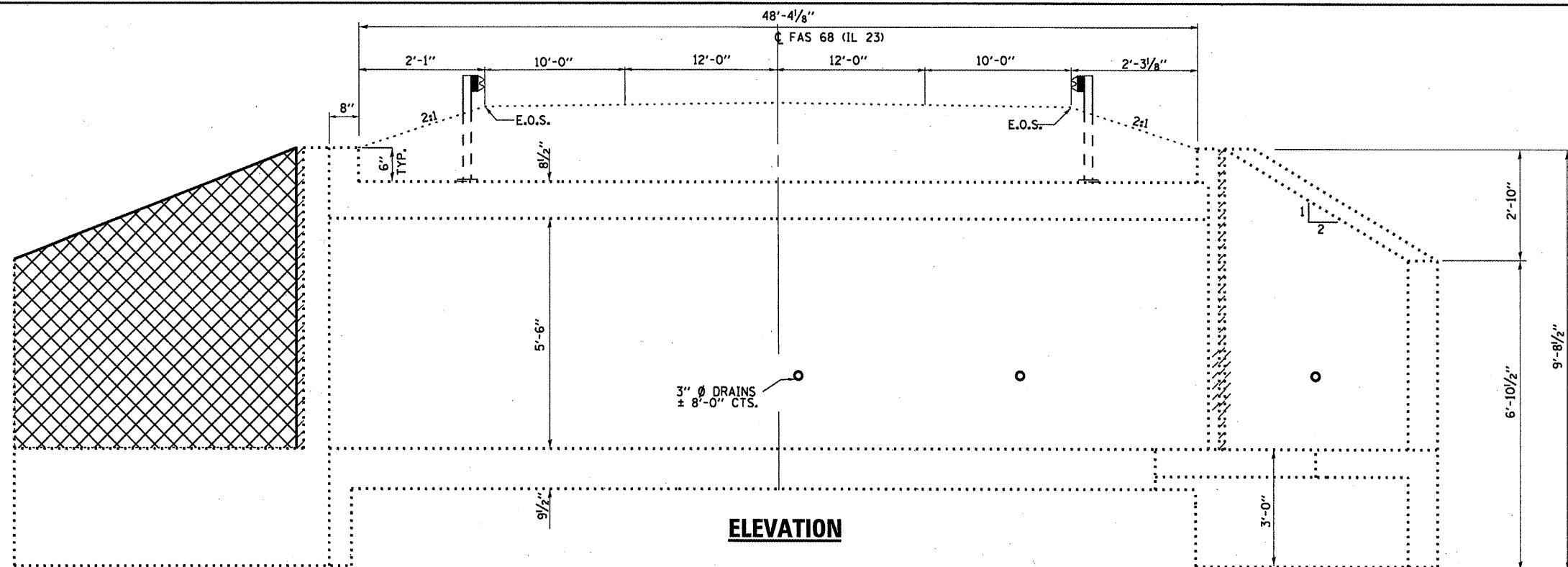
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	PLOT DATE = 12/27/2011	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

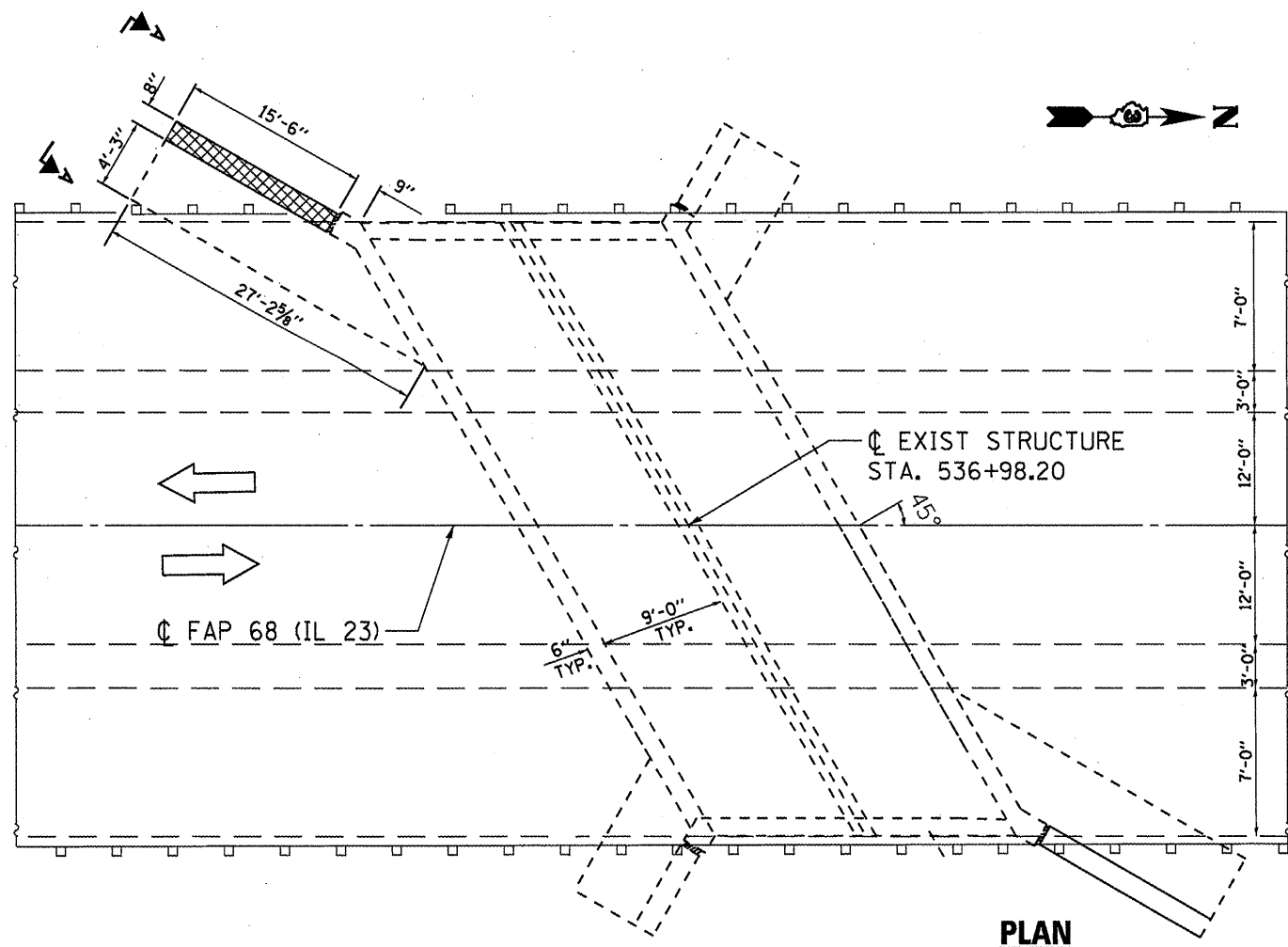
**STRUCTURE EXCAVATION DETAILS  
FOR LOCATION 3: SN 053-2014**

SCALE: SHEET NO. 3 OF 6 SHEETS STA. TO STA.

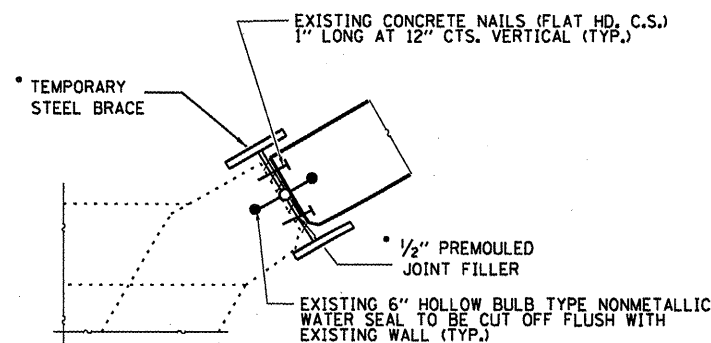
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	VARIOUS	VARIOUS	40	19
			CONTRACT NO. 66B42	
ILLINOIS FED. AID PROJECT				



**ELEVATION**



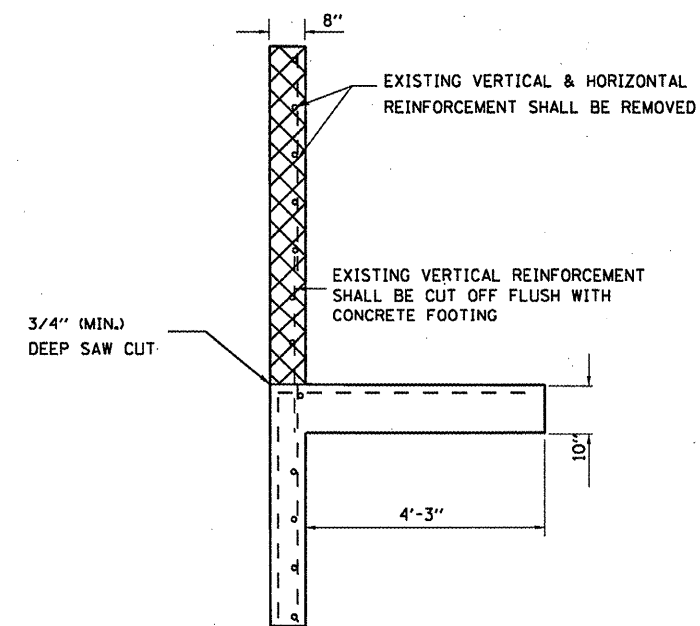
**PLAN**



**CORNER DETAIL**

\* REMOVAL TO BE INCLUDED IN THE COST OF "CONCRETE REMOVAL"

CONCRETE REMOVAL



**SECTION A-A**

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	2.0

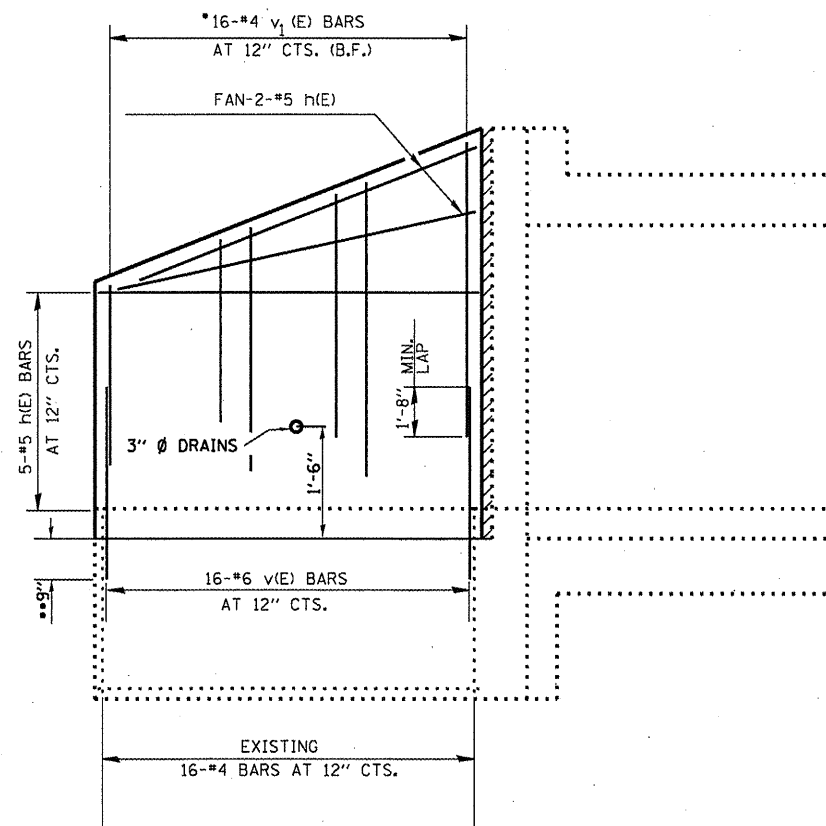
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	PLOT DATE = 12/27/2011	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**CONCRETE REMOVAL DETAILS  
FOR LOCATION 3: SN 053-2014**

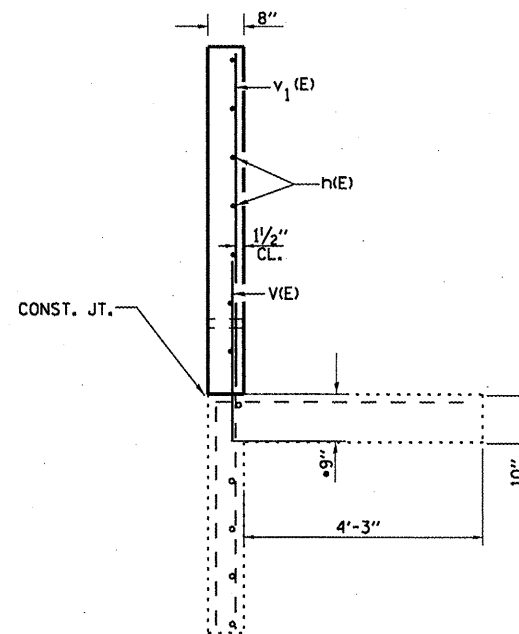
SCALE: SHEET NO. 4 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	VARIOUS	VARIOUS	40	20
			CONTRACT NO. 66B42	
ILLINOIS FED. AID PROJECT				



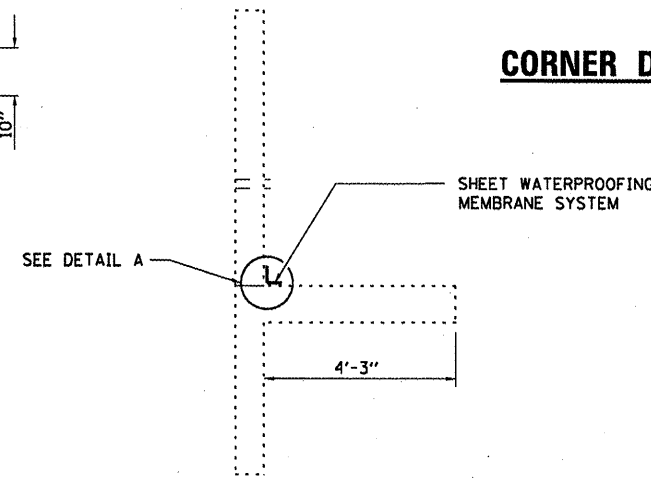
**WING ELEVATION**

\*ORDER v<sub>1</sub>(E) BARS IN FULL LENGTH AND CUT IN FIELD TO FIT.



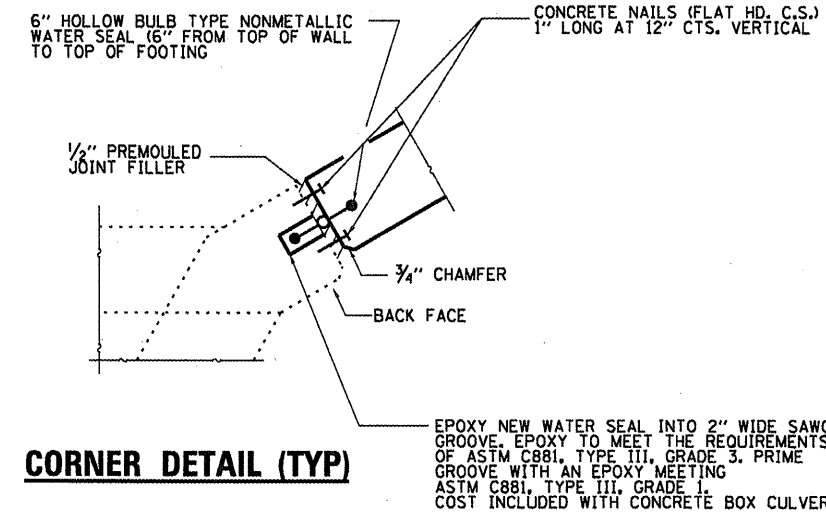
**SECTION A-A**

\*\* DRILL & GROUT v(E) BARS INTO EXISTING CONCRETE FOOTING ACCORDING TO SECTION 584 OF THE STANDARD SPEC.

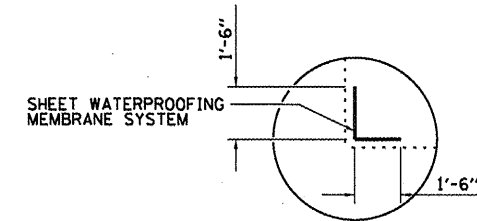


**SECTION A-A**

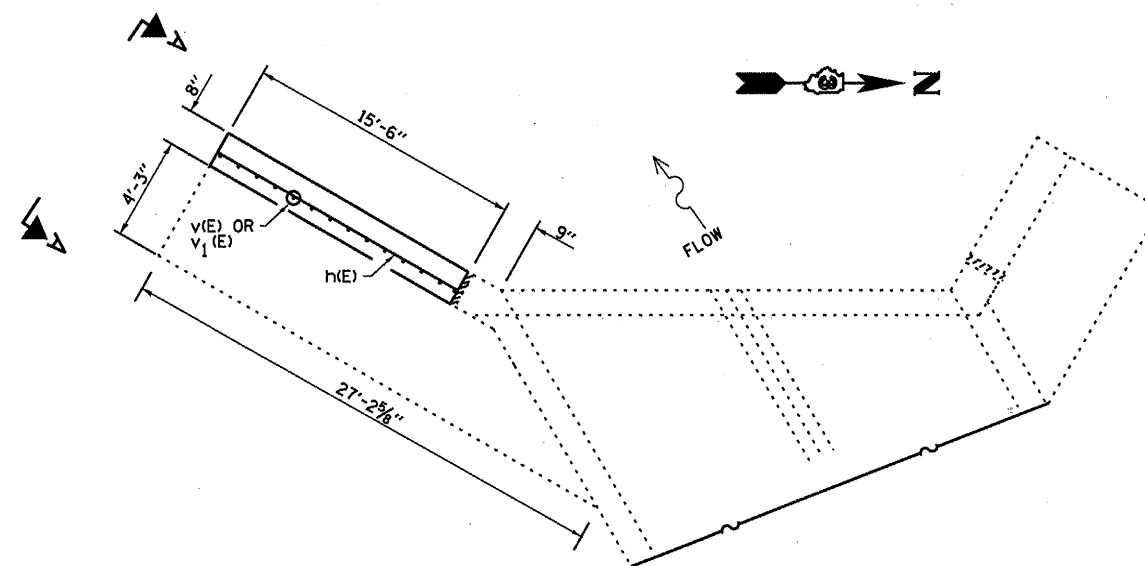
SHEET WATERPROOFING MEMBRANE SYSTEM



**CORNER DETAIL (TYP)**



**DETAIL A**



**PARTIAL PLAN**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	6	#5	15'-3"	—
v(E)	16	#6	3'-0"	—
v <sub>1</sub> (E)	16	#4	6'-6"	—
Concrete Box Culverts			Cu. Yd.	2.0
Reinforcement Bars			Pound	237
Sheet Waterproofing Membrane System			Sq. Yd.	6.0

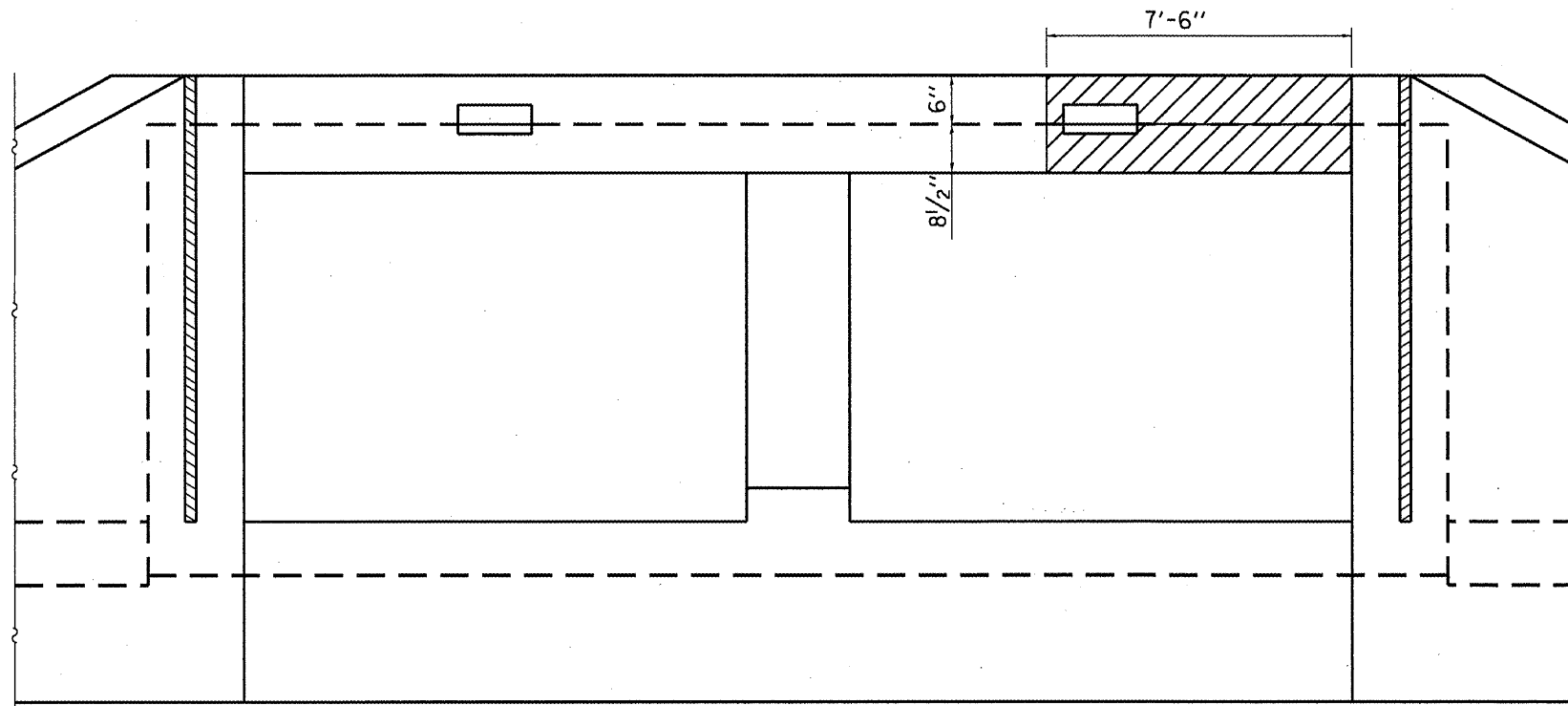
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PLOT SCALE = 100.0000 ' / 1"		CHECKED - RON WOODSHANK	REVISED -
PLOT DATE = 12/27/2011		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

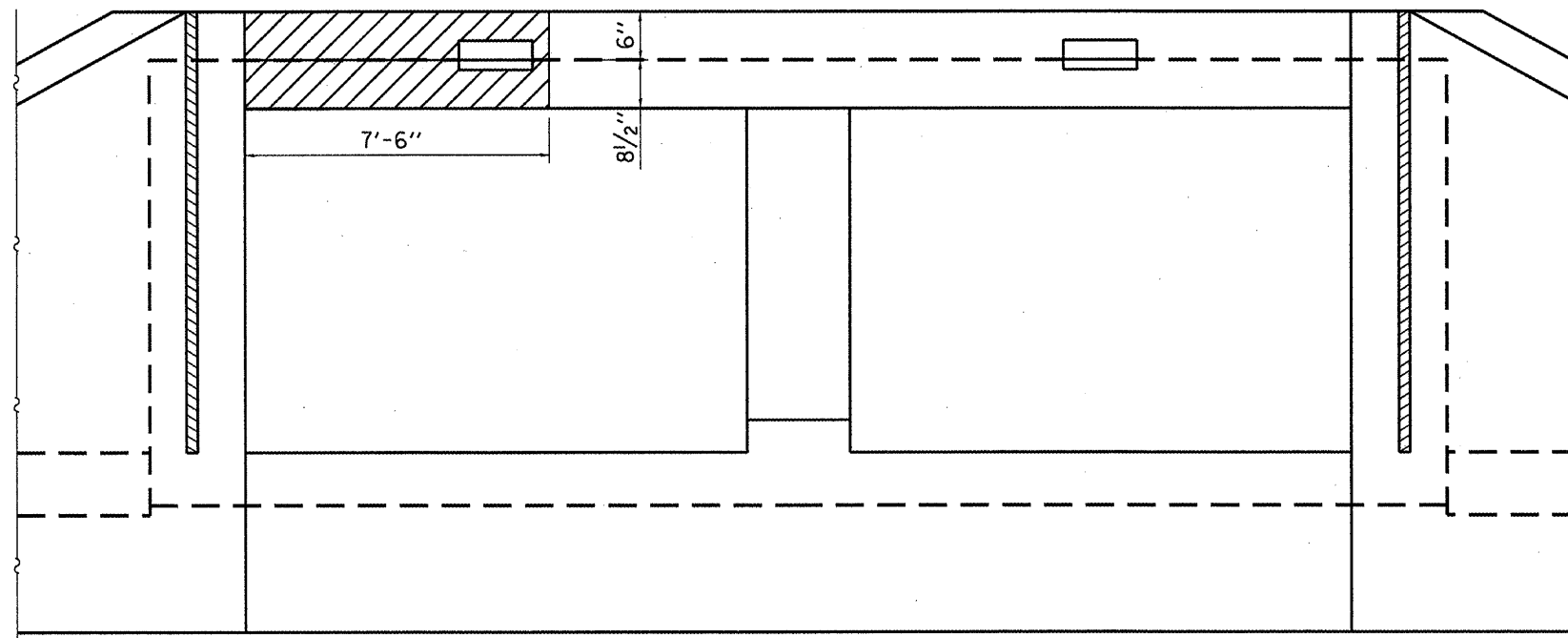
**RECONSTRUCTION DETAILS  
FOR LOCATION 3: 053-2014**

SCALE: SHEET NO. 5 OF 6 SHEETS STA. TO STA.

F.A.P. RTE. VAR.	SECTION VARIOUS	COUNTY VARIOUS	TOTAL SHEETS 40	SHEET NO. 21
			CONTRACT NO. 66B42	
ILLINOIS FED. AID PROJECT				



**WEST FACE**



**EAST FACE**

**GENERAL NOTES**

LOCATIONS AND DIMENSIONS SHOWN ARE APPROXIMATE.  
 THE FIELD ENGINEER SHALL SOUND THE EXISTING CONCRETE  
 FOR EXACT DIMENSIONS BEFORE BEGINNING REPAIR OPERATIONS.  
  
 SEE THE SPECIAL PROVISION FOR "STRUCTURAL REPAIR OF  
 CONCRETE" FOR REPAIR METHODS AND PROCEDURES.

 **STRUCTURAL REPAIR OF CONCRETE  
 DEPTH LESS THAN OR EQUAL TO FIVE INCHES**

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	18.0

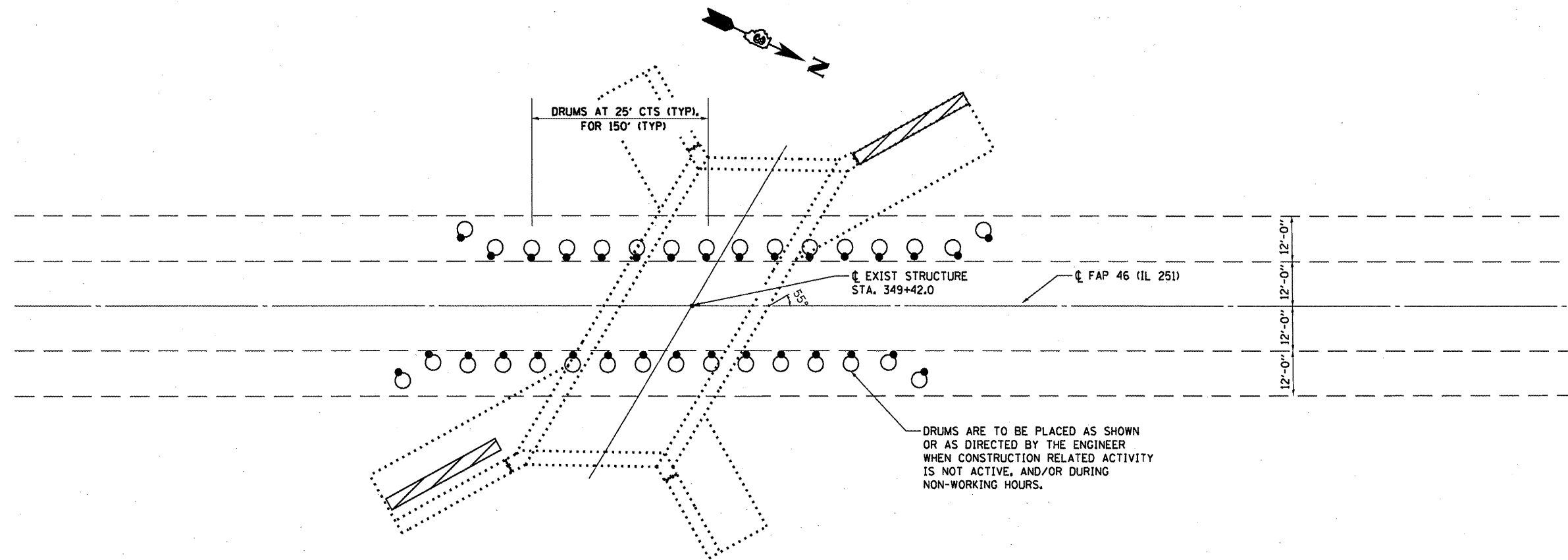
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PLOT SCALE = 1/8" = 1'-0"		CHECKED - RON WOODSHANK	REVISED -
PLOT DATE = 12/27/2011		DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**STRUCTURAL REPAIR OF CONCRETE  
 FOR LOCATION 3: SN: 053-2014**

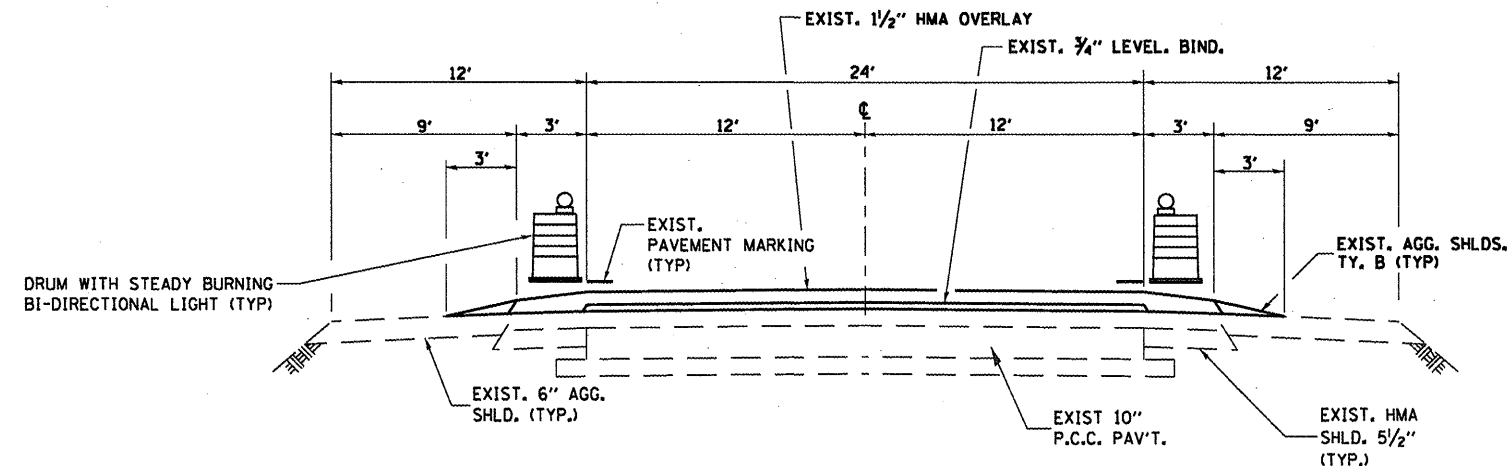
SCALE: SHEET NO. 6 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	VARIOUS	VARIOUS	40	22
			CONTRACT NO. 66B42	
ILLINOIS FED. AID PROJECT				



DRUMS ARE TO BE PLACED AS SHOWN OR AS DIRECTED BY THE ENGINEER WHEN CONSTRUCTION RELATED ACTIVITY IS NOT ACTIVE, AND/OR DURING NON-WORKING HOURS.

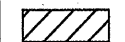





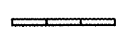


**TRAFFIC CONTROL PLAN  
LOCATION 4: SN: 050-2523**



**TYPICAL SECTION  
LOOKING NORTH**

 DAMAGED WING WALL TO BE REPLACED

**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

\*This detail is to be used in conjunction with Traffic Control and Protection Standard 701201.

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PLOT SCALE = 100.0000' / 1"		CHECKED - RON WOODSHANK	REVISED -
PLOT DATE = 12/27/2011		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL PLAN  
FOR LOCATION 4: SN 050-2523**

F.A.P. RTE. VAR.	SECTION VARIOUS	COUNTY VARIOUS	TOTAL SHEETS 40	SHEET NO. 23
			CONTRACT NO. 66B42	
ILLINOIS FED. AID PROJECT				

SCALE: SHEET NO. 1 OF 5 SHEETS STA. TO STA.

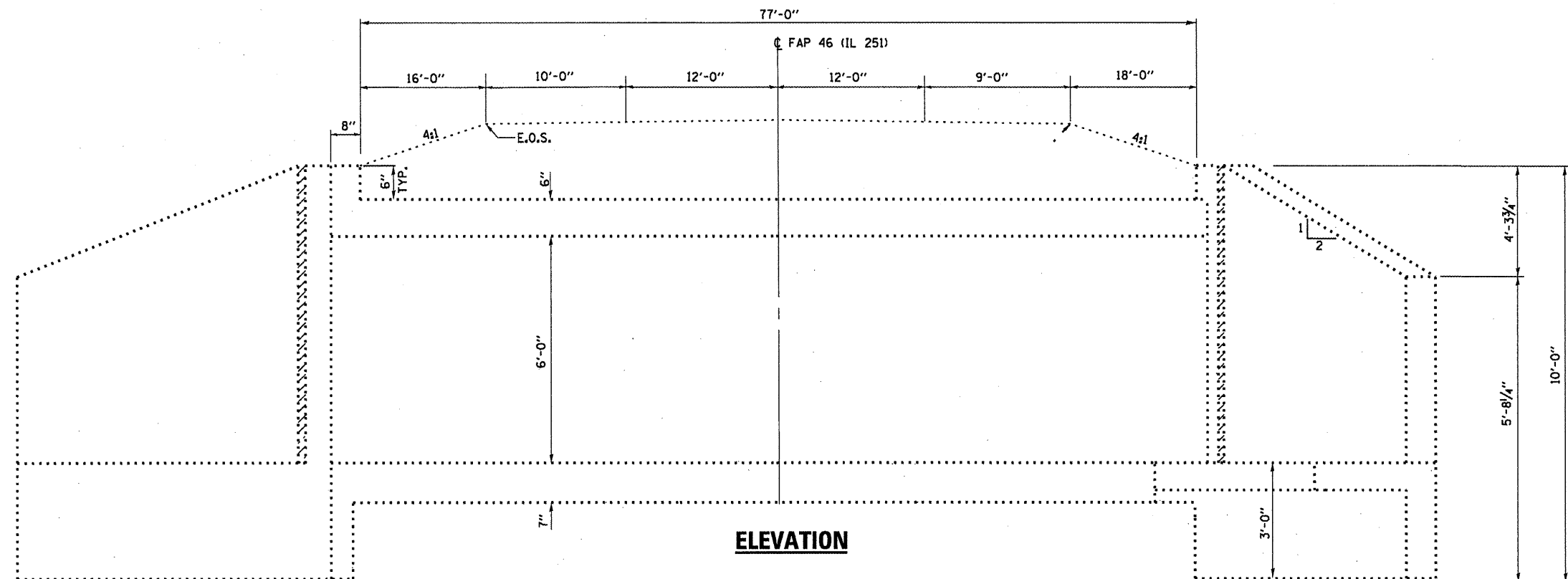
**GENERAL NOTES**

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.

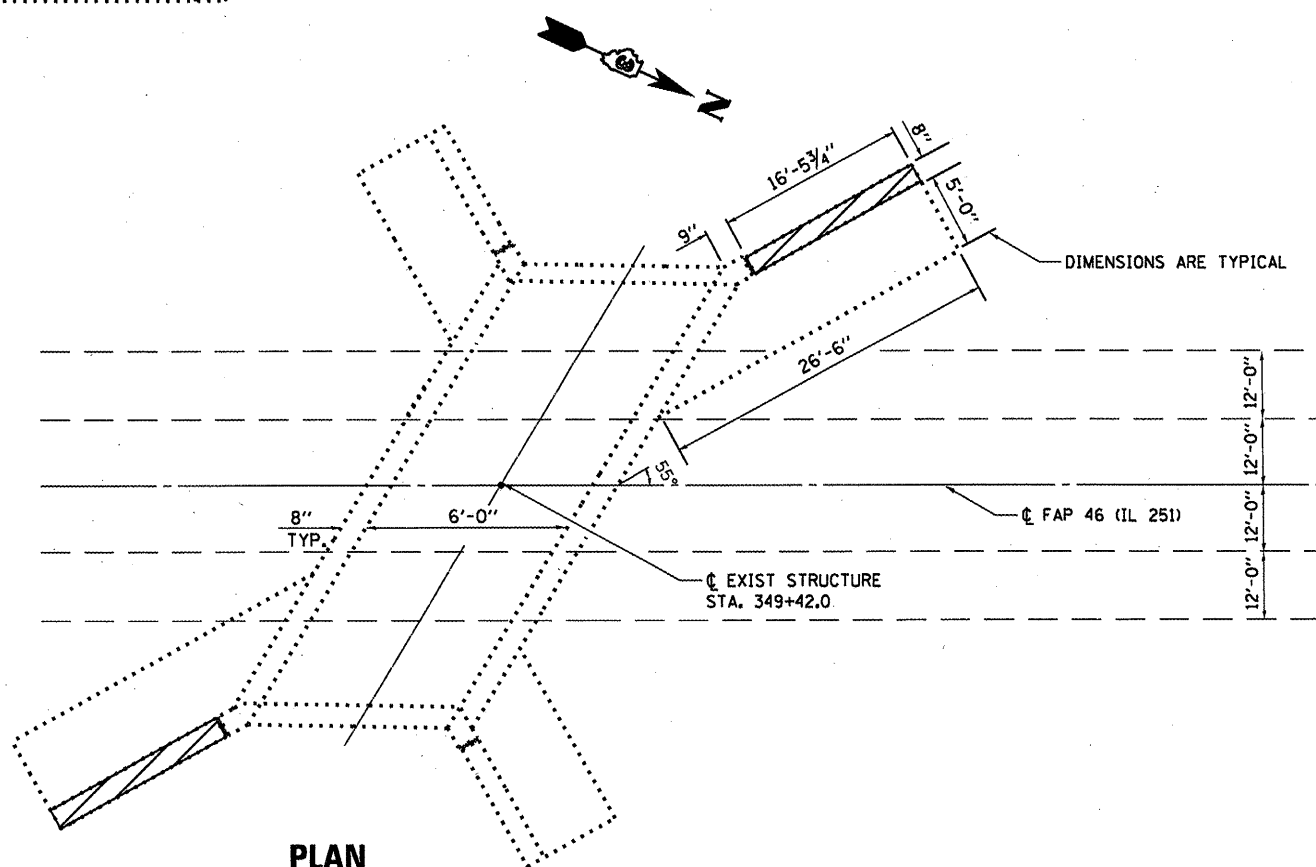
 **DAMAGED WING WALL(S)  
 TO BE REPLACED**

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
STRUCTURE EXCAVATION	CU YD	26
FURNISHED EXCAVATION	CU YD	26
CONCRETE REMOVAL	CU YD	4.0
CONCRETE BOX CULVERTS	CU YD	4.0
REINFORCEMENT BARS (EPOXY COATED)	POUND	440
SHEET WATERPROOFING MEMBRANE SYSTEM	SQ YD	6.0



**ELEVATION**



**PLAN**



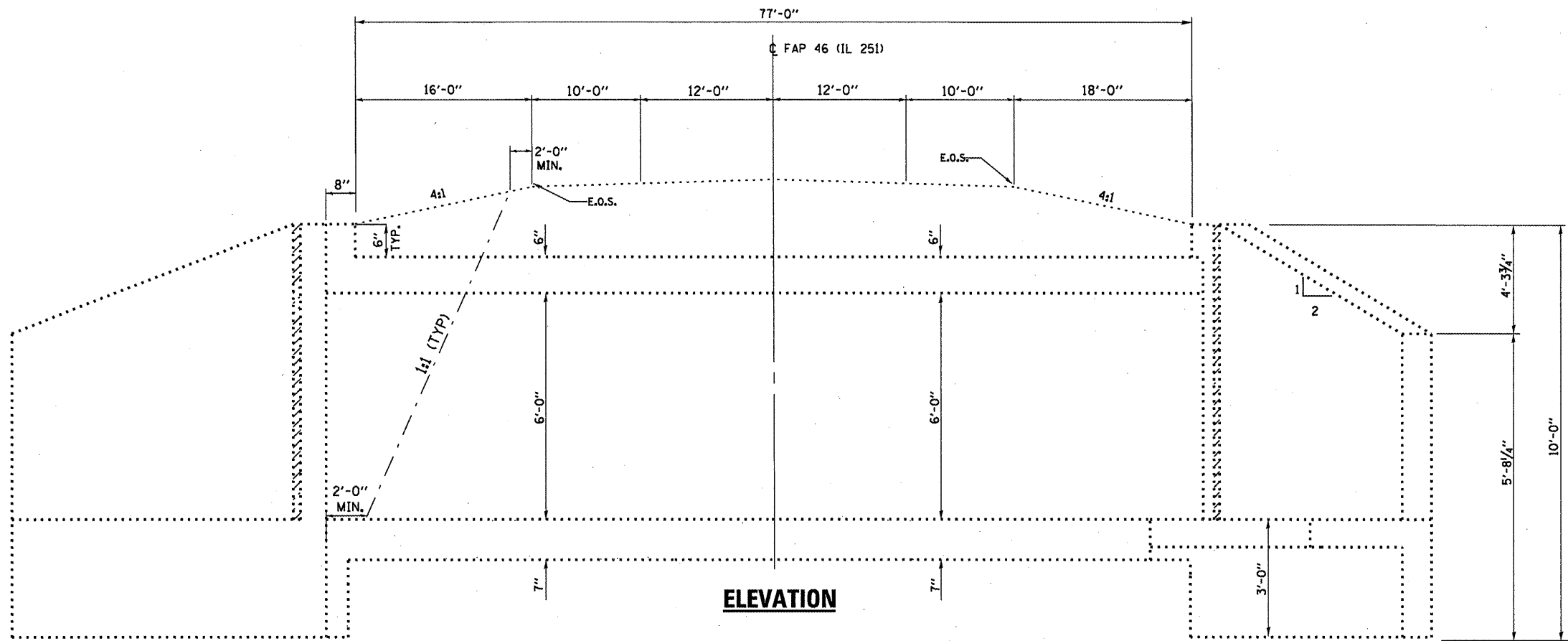
*David Carl Puzey* 1/31/12  
 Expires 1/30/12

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PLOT DATE = 12/27/2011		DATE -	REVISED -

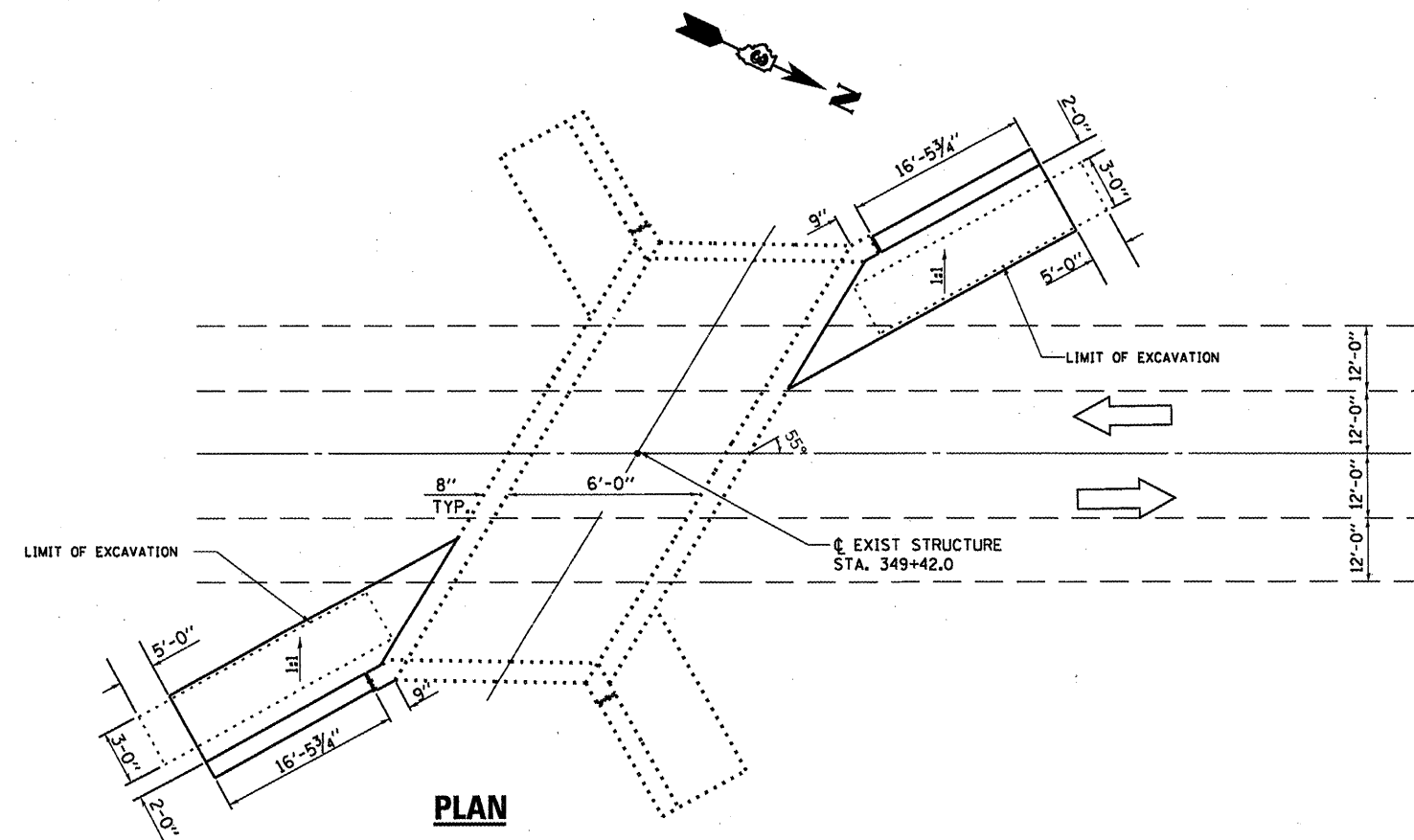
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**GENERAL PLAN AND ELEVATION  
 FOR LOCATION 4: SN 050-2523**

F.A.P. RTE. VAR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	VARIOUS	VARIOUS	40	24
			CONTRACT NO. 66B42	
[ILLINOIS] FED. AID PROJECT				



**ELEVATION**



**PLAN**

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
STRUCTURE EXCAVATION	CU YD	26
FURNISHED EXCAVATION	CU YD	26

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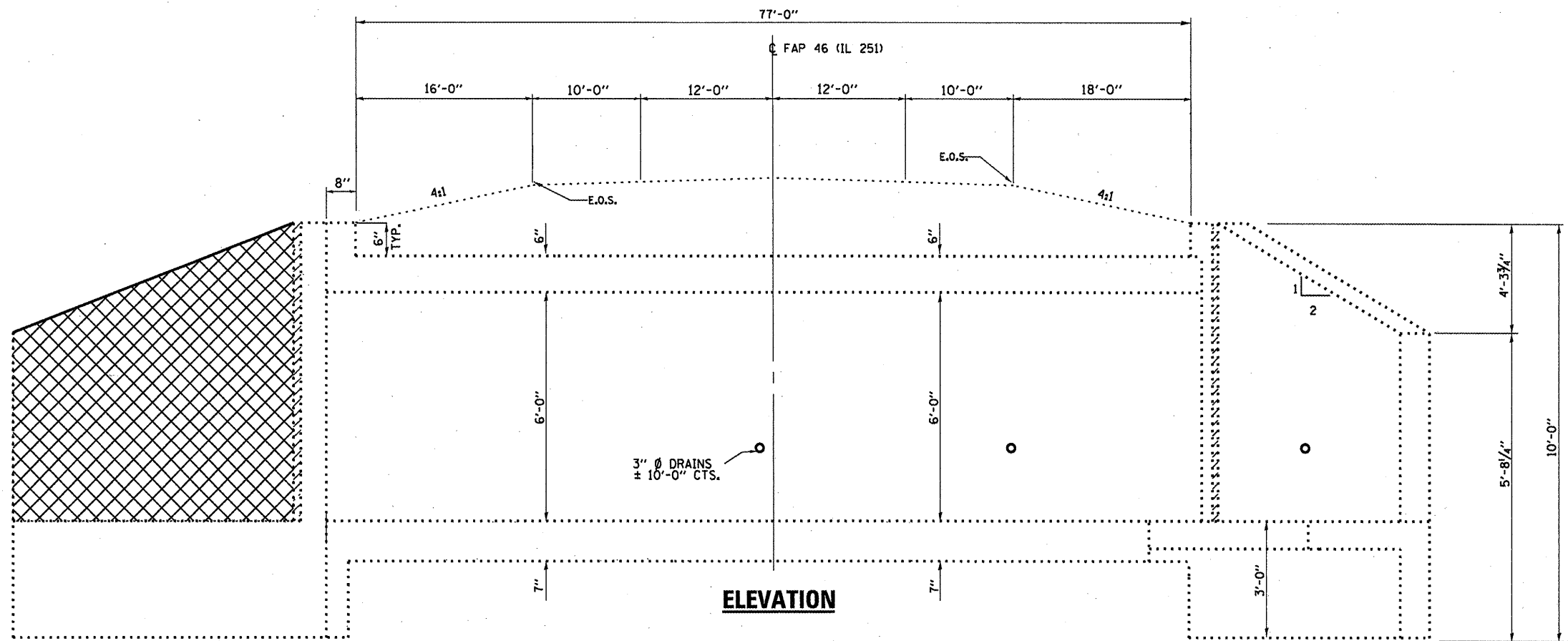
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STRUCTURE EXCAVATION DETAILS  
FOR LOCATION 4: SN 050-2523**

SCALE: \_\_\_\_\_ SHEET NO. 3 OF 5 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

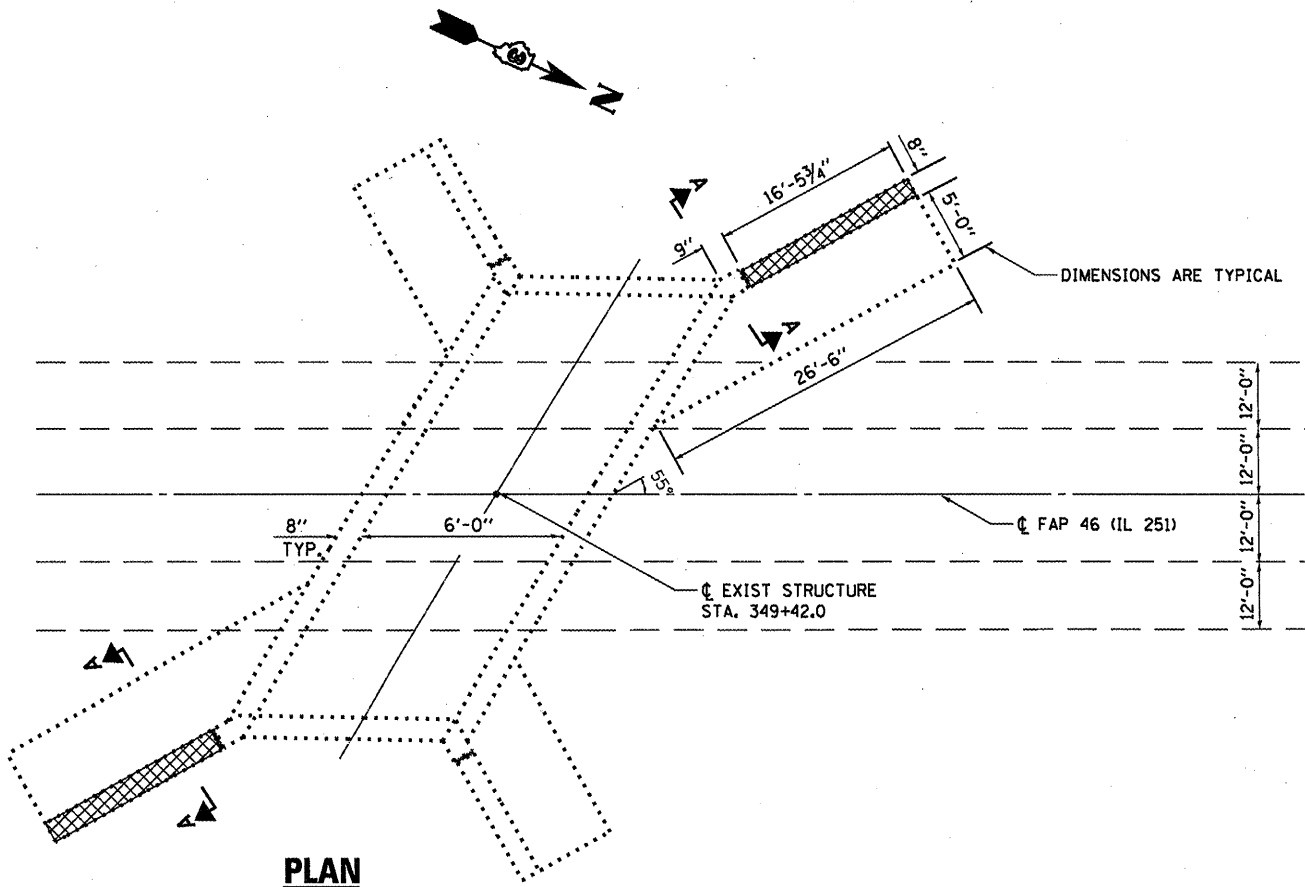
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	VARIOUS	VARIOUS	40	25
			CONTRACT NO. 66B42	
ILLINOIS FED. AID PROJECT				



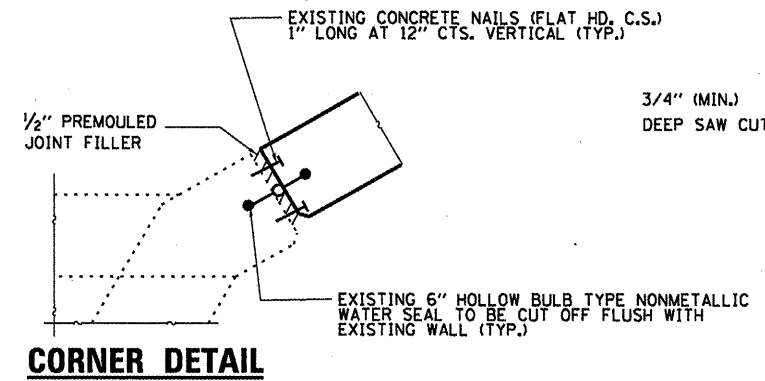


**ELEVATION**

**CONCRETE REMOVAL**

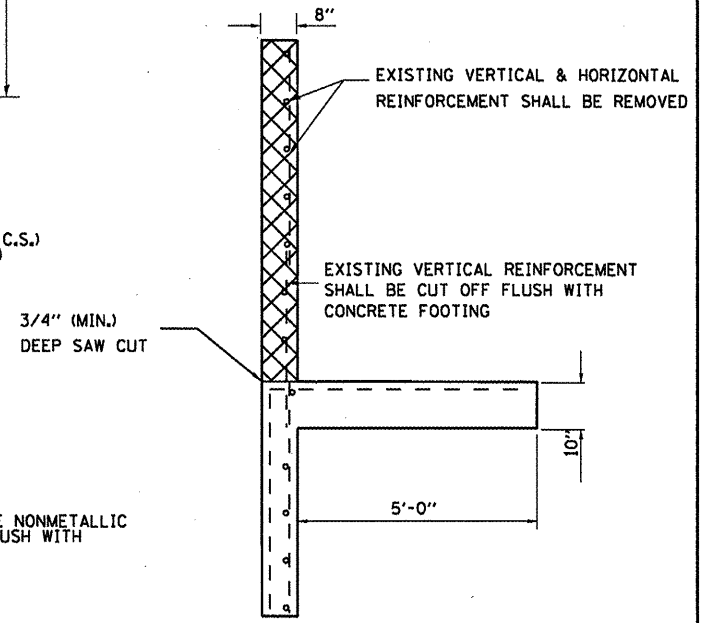


**PLAN**



**CORNER DETAIL**

NOTE: REMOVAL TO BE INCLUDED IN THE COST OF "CONCRETE REMOVAL"



**SECTION A-A (TYP)**

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	4.0

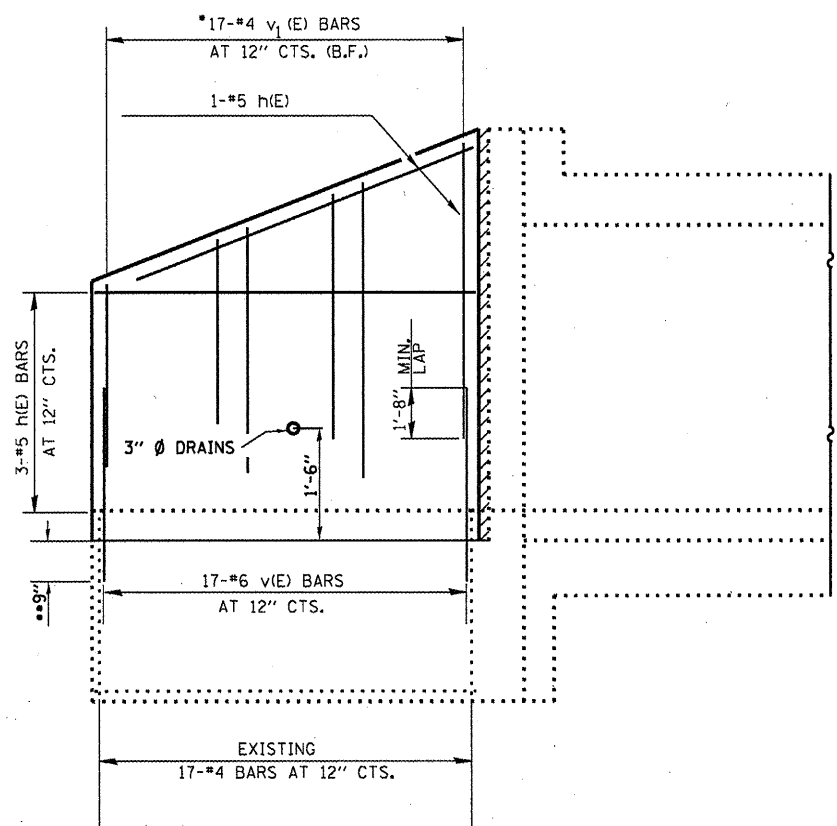
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PLOT DATE = 12/27/2011		DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

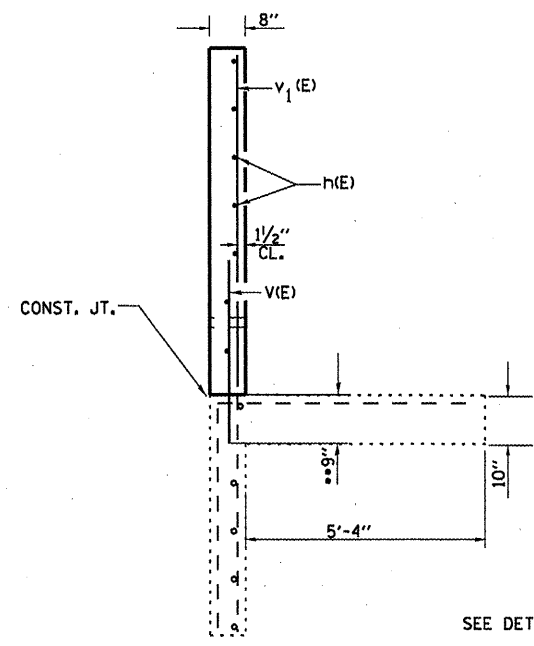
**CONCRETE REMOVAL DETAILS  
FOR LOCATION 4: SN 050-2523**

SCALE: SHEET NO. 4 OF 5 SHEETS STA. TO STA.

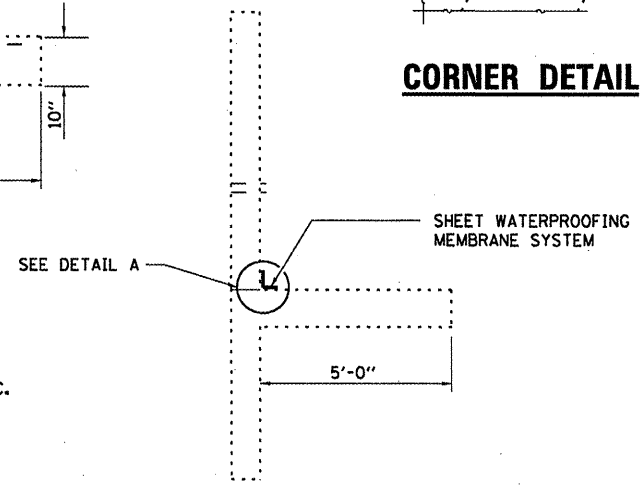
F.A.P. RTE. VAR.	SECTION VARIOUS	COUNTY VARIOUS	TOTAL SHEETS 40	SHEET NO. 26
			CONTRACT NO. 66B42	
ILLINOIS FED. AID PROJECT				



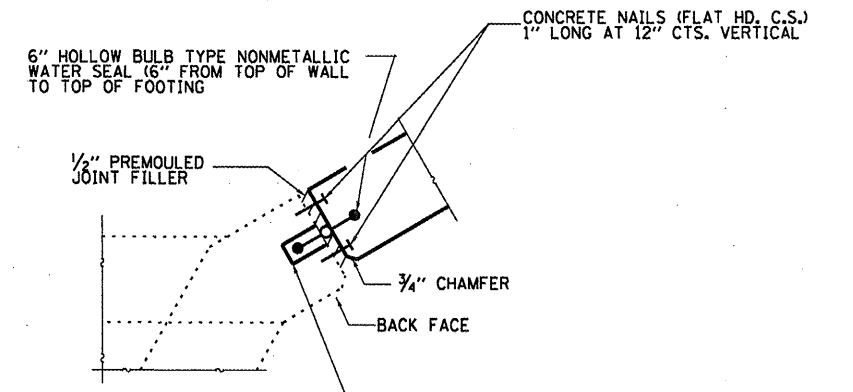
**WING ELEVATION**  
 \*ORDER v<sub>1</sub>(E) BARS IN FULL LENGTH AND CUT IN FIELD TO FIT.



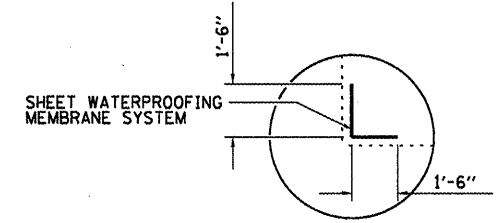
**SECTION A-A**  
 \*\* DRILL & GROUT v(E) BARS INTO EXISTING CONCRETE FOOTING ACCORDING TO SECTION 584 OF THE STANDARD SPEC.



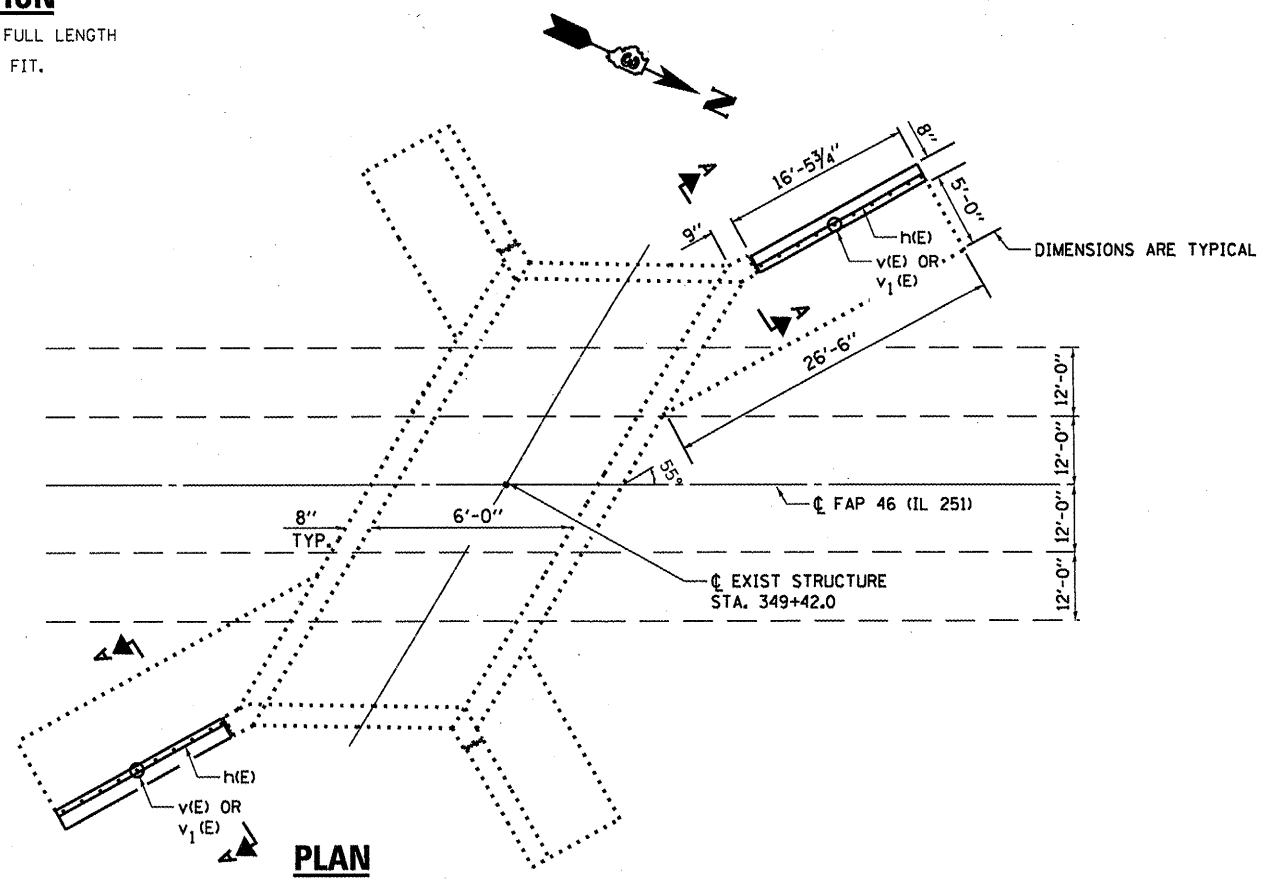
**SECTION A-A**  
 SHEET WATERPROOFING MEMBRANE SYSTEM



**CORNER DETAIL**  
 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.



**DETAIL A**



**PLAN**

**BILL OF MATERIAL PER WING WALL**

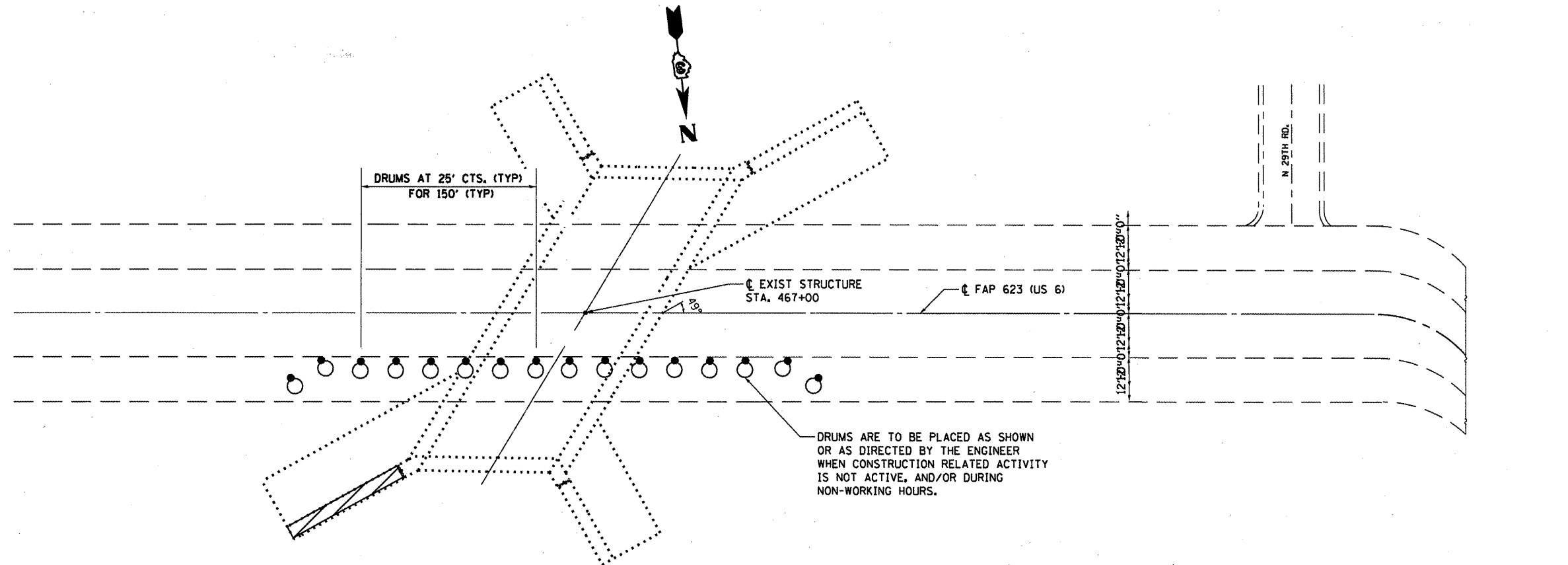
Bar	No.	Size	Length	Shape
h(E)	4	#5	16'-0"	—
v(E)	17	#6	3'-0"	—
v <sub>1</sub> (E)	17	#4	6'-9"	—
Concrete Box Culverts			Cu. Yd.	2.0
Reinforcement Bars			Pound	220
Sheet Waterproofing Membrane System			Sq. Yd.	6.0

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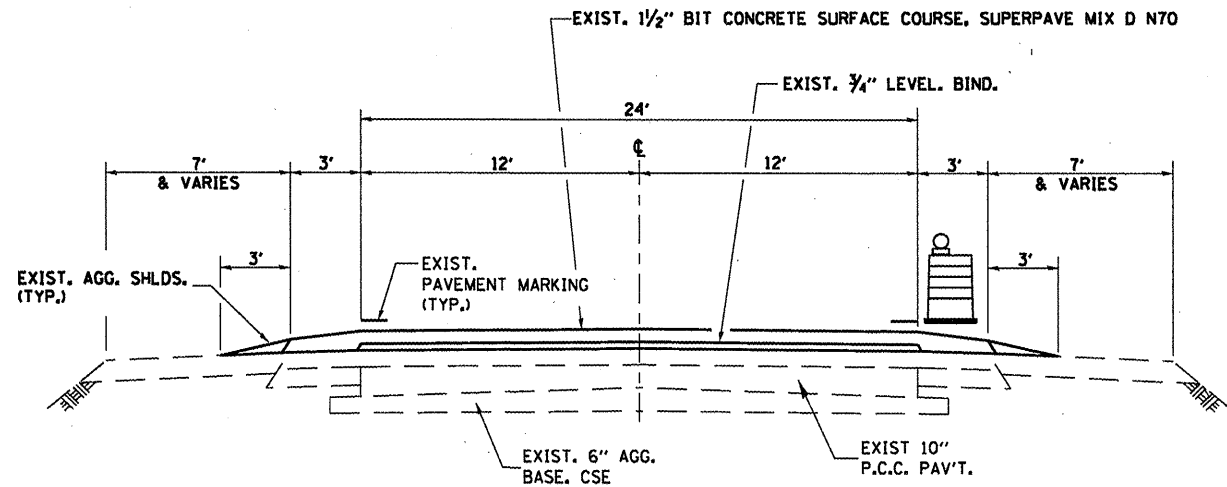
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

**RECONSTRUCTION DETAILS FOR LOCATION 4: SN 050-2523**  
 SCALE: SHEET NO. 5 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	VARIOUS	VARIOUS	40	27
			CONTRACT NO. 66B42	
(ILLINOIS) FED. AID PROJECT				









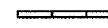


**TRAFFIC CONTROL PLAN  
LOCATION 5: SN: 050-2589**



**TYPICAL SECTION  
LOOKING WEST**

 **DAMAGED WING WALL  
TO BE REPLACED**

**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

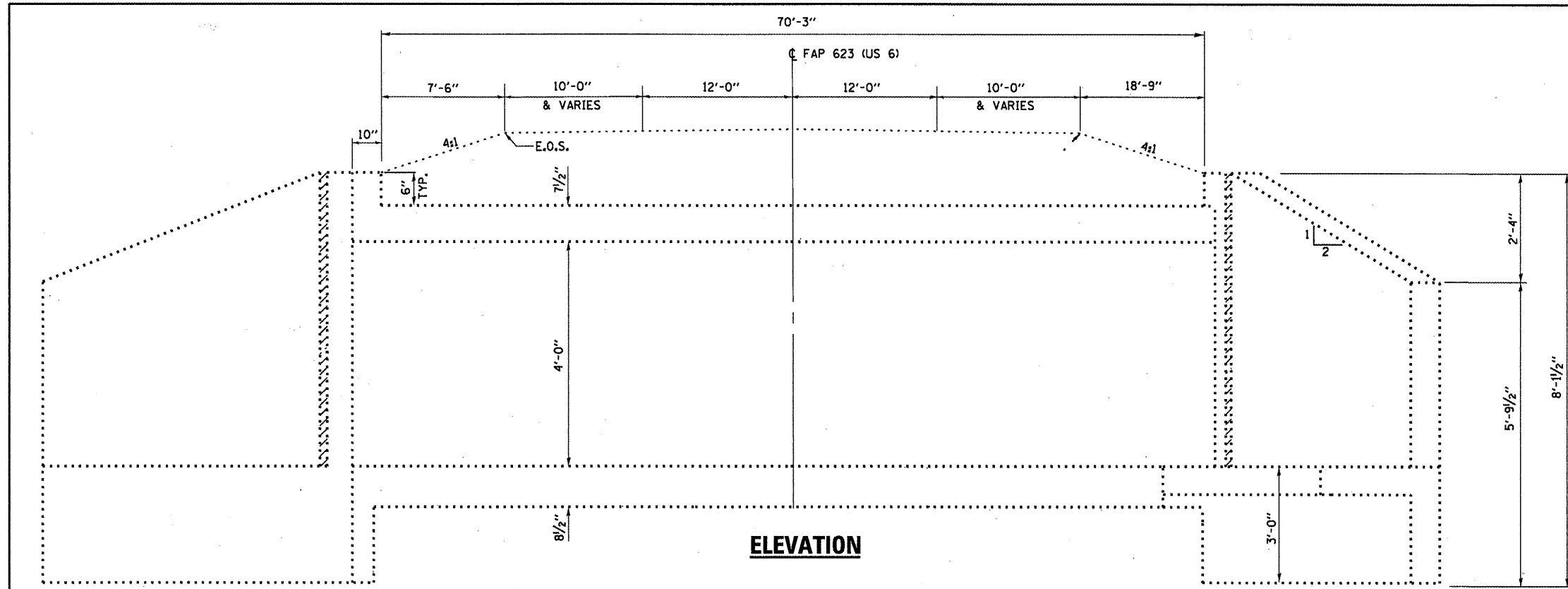
\*This detail is to be used in conjunction with Traffic Control and Protection Standard 701201.

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PLOT DATE = 12/27/2011		DATE - _____	REVISED - _____

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**TRAFFIC CONTROL PLAN  
FOR LOCATION 5: SN:050-2589**  
SCALE: \_\_\_\_\_ SHEET NO. 1 OF 5 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	VARIOUS	VARIOUS	40	28
			CONTRACT NO. 66B42	
ILLINOIS FED. AID PROJECT				

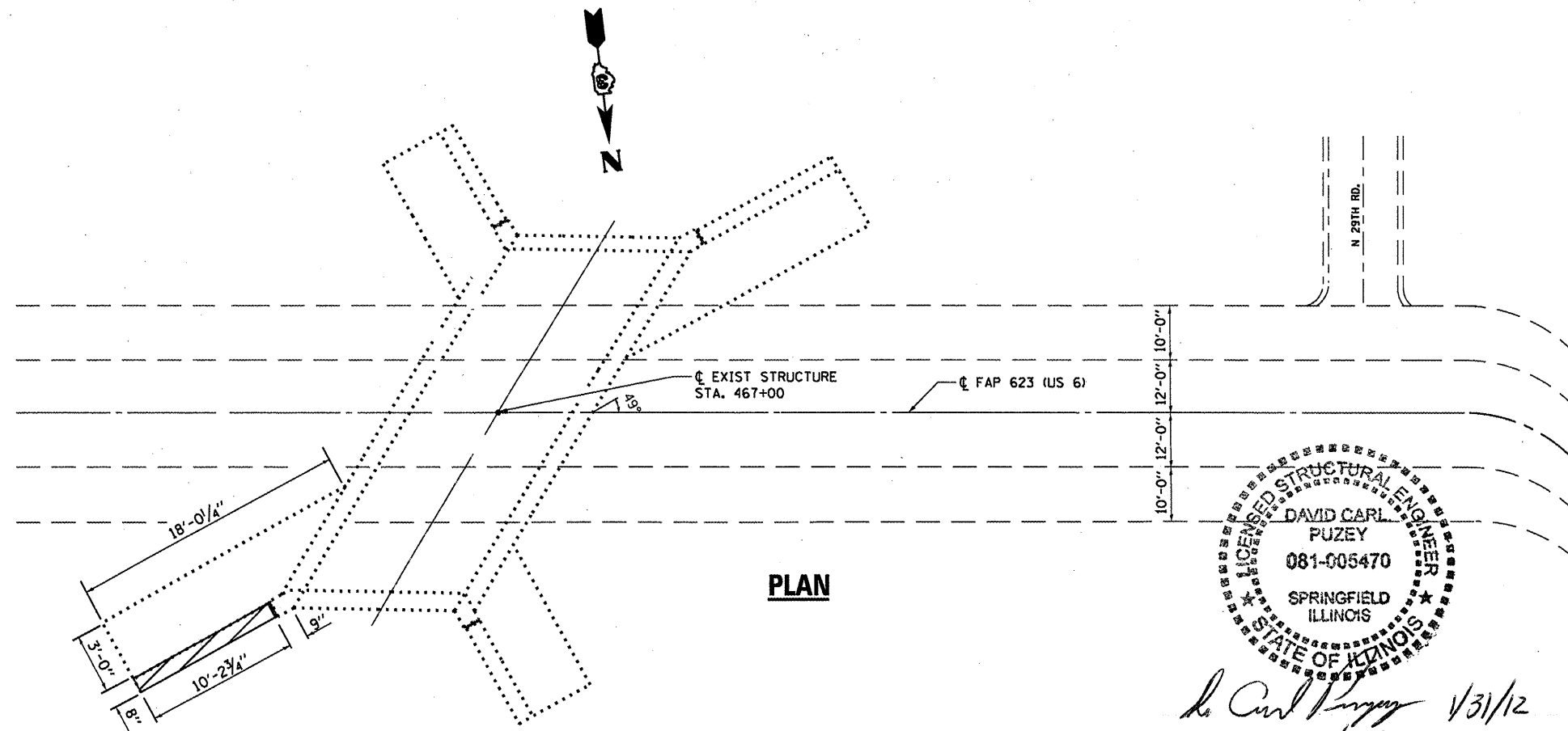


**ELEVATION**

**GENERAL NOTES**

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.

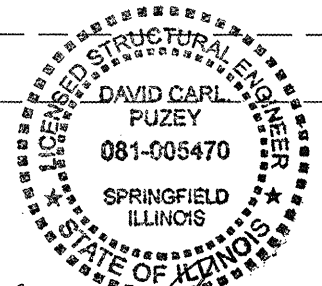
 **DAMAGED WING WALL TO BE REPLACED**



**PLAN**

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
STRUCTURE EXCAVATION	CU YD	9.0
FURNISHED EXCAVATION	CU YD	9.0
CONCRETE REMOVAL	CU YD	1.0
CONCRETE BOX CULVERTS	CU YD	1.0
REINFORCEMENT BARS (EPOXY COATED)	POUND	103.0
SHEET WATERPROOFING MEMBRANE SYSTEM	SQ YD	4.0



*David Carl Puze* 1/31/12  
 Expires 11/30/12

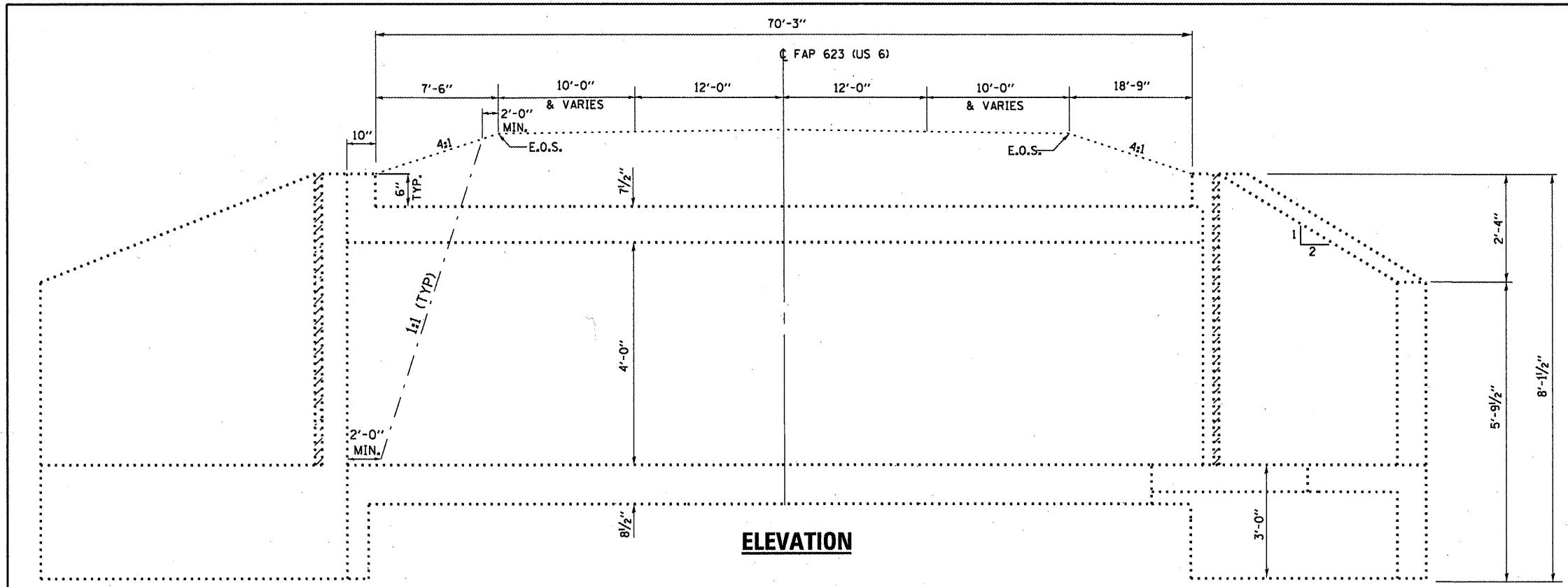
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		CHECKED - RON WOODSHANK	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

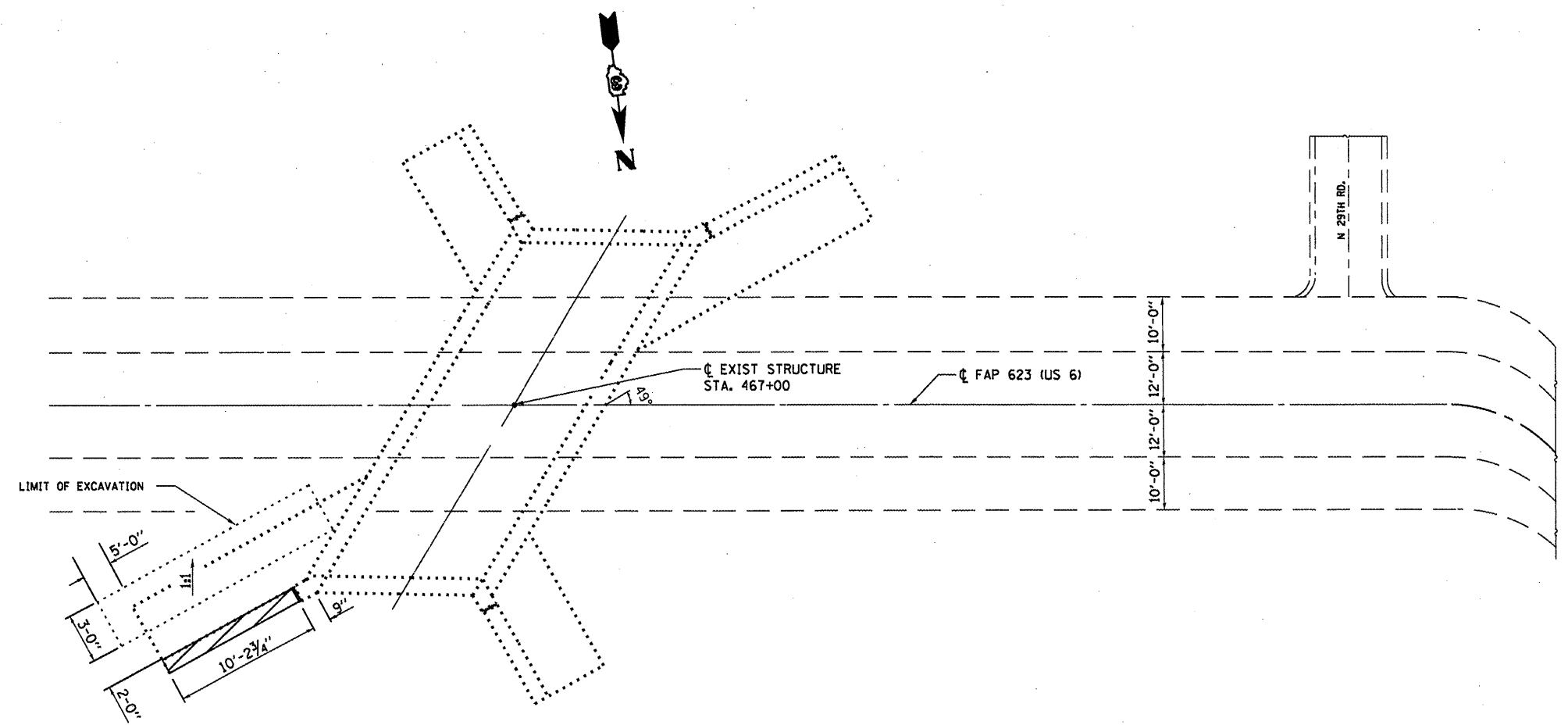
**GENERAL PLAN AND ELEVATION  
 FOR LOCATION 5: SN 050-2589**

F.A.P. RTE. VAR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	VARIOUS	VARIOUS	40	29
			CONTRACT NO. 66B42	
ILLINOIS FED. AID PROJECT				

SCALE: SHEET NO. 2 OF 5 SHEETS STA. TO STA.



 **DAMAGED WING WALL(S)  
TO BE REPLACED**



**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
STRUCTURE EXCAVATION	CU YD	26
FURNISHED EXCAVATION	CU YD	26

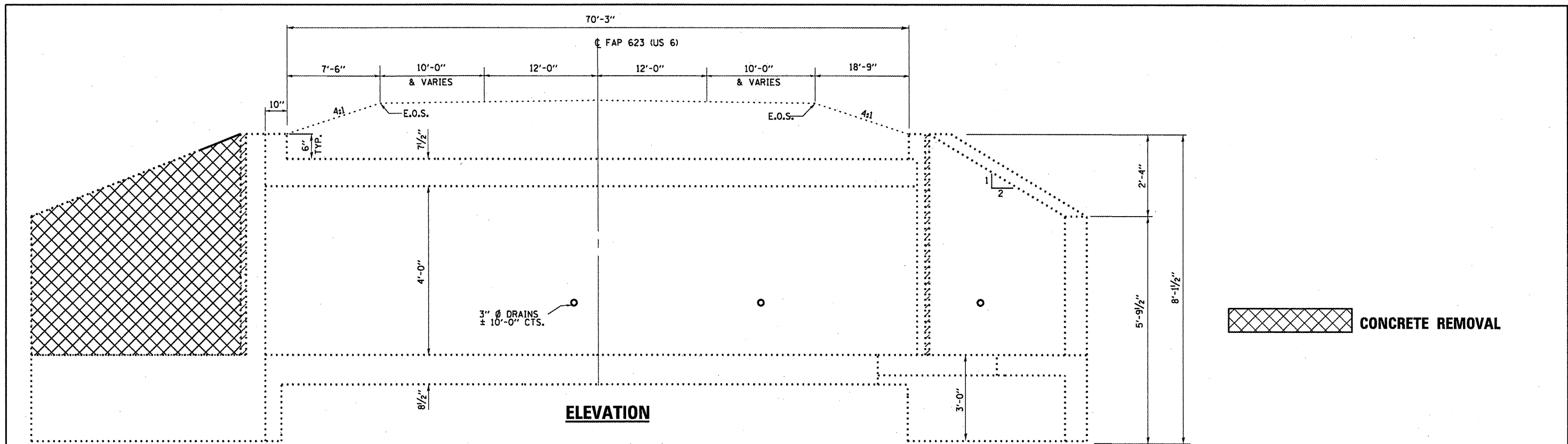
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	PLOT DATE = 12/27/2011	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STRUCTURE EXCAVATION DETAILS  
FOR LOCATION 5: SN 050-2589**

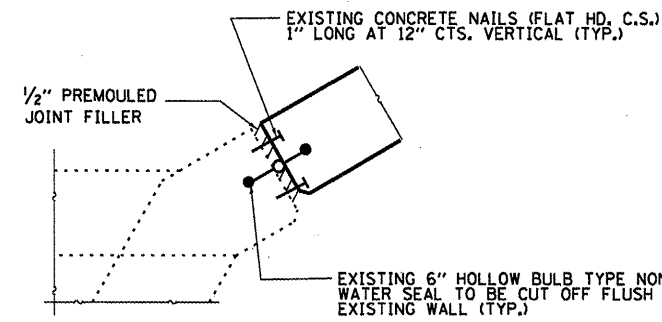
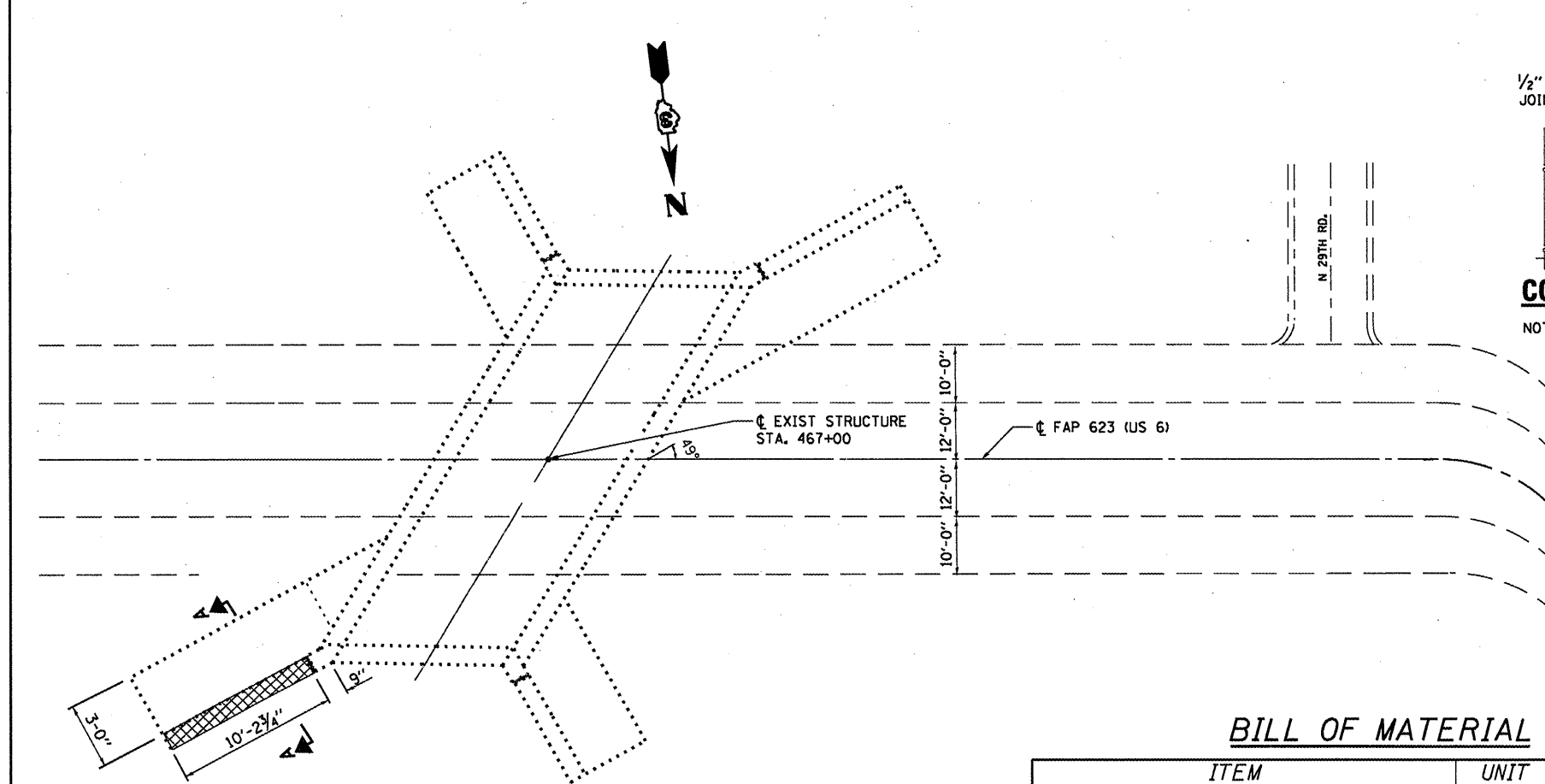
SCALE: \_\_\_\_\_ SHEET NO. 3 OF 5 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	VARIOUS	VARIOUS	40	30
			CONTRACT NO. 66B42	
ILLINOIS FED. AID PROJECT				

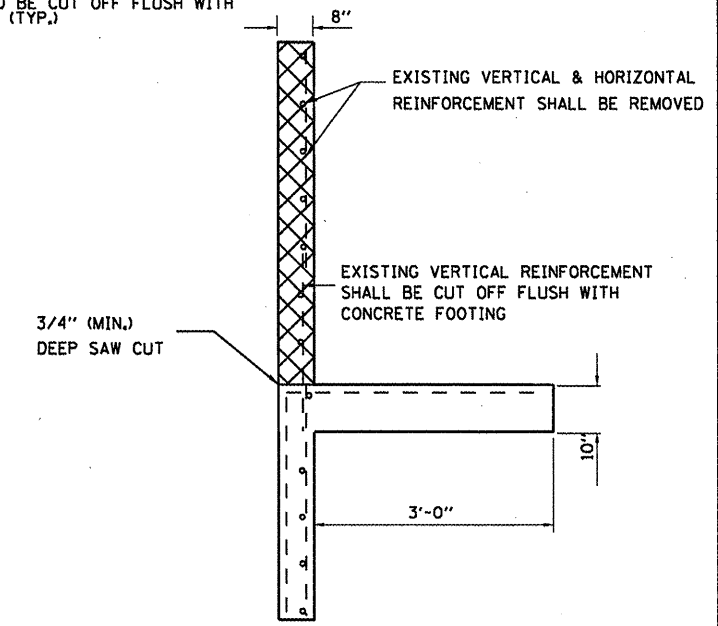


**ELEVATION**

**CONCRETE REMOVAL**



**CORNER DETAIL**  
NOTE: REMOVAL TO BE INCLUDED IN THE COST OF "CONCRETE REMOVAL"



**SECTION A-A (TYP)**

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	1.0

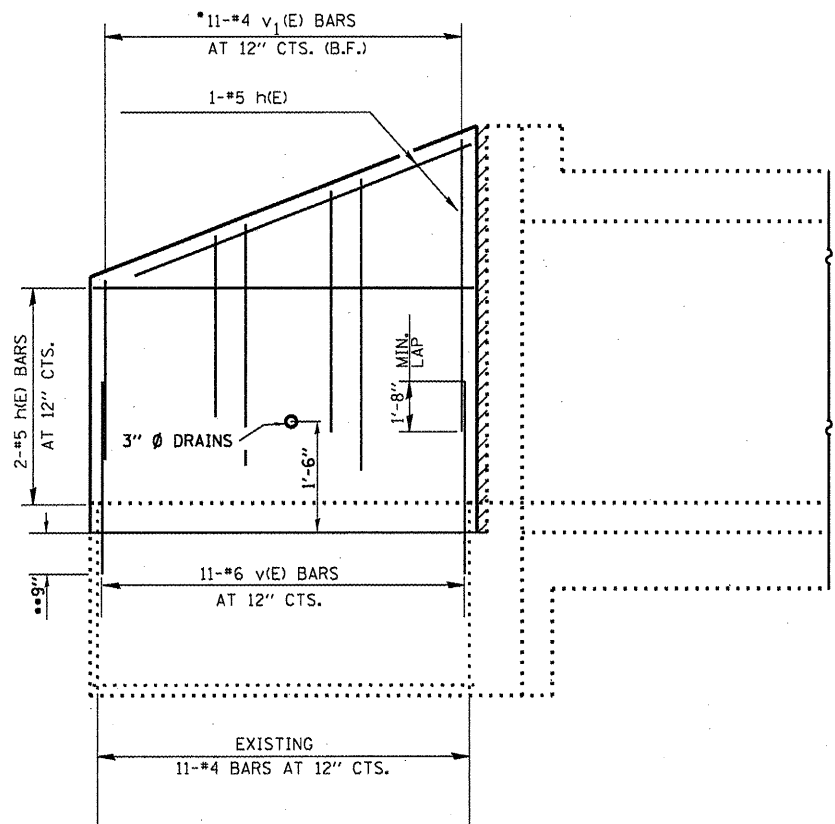
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	PLOT DATE = 12/27/2011	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**CONCRETE REMOVAL DETAILS  
FOR LOCATION 5: SN 050-2589**

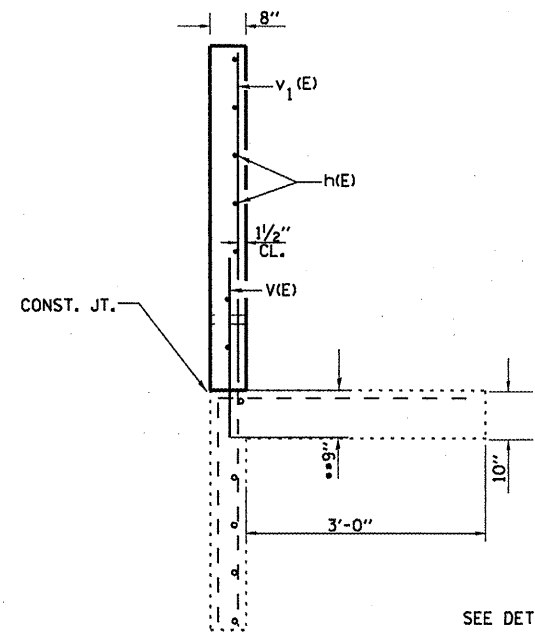
SCALE: SHEET NO. 4 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	VARIOUS	VARIOUS	40	31
			CONTRACT NO. 66B42	
ILLINOIS FED. AID PROJECT				



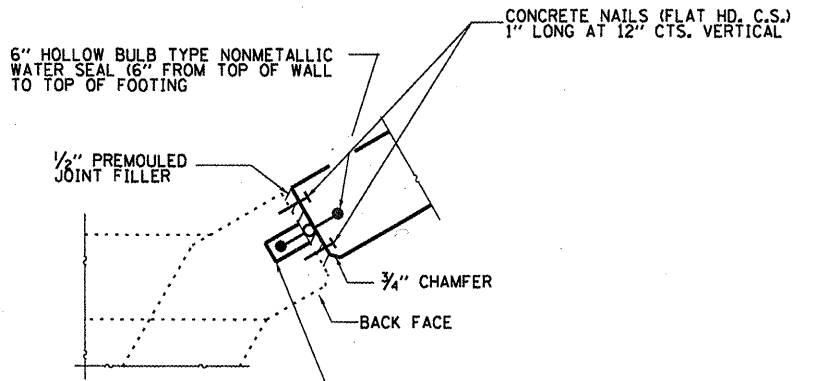
**WING ELEVATION**

\*ORDER v<sub>1</sub>(E) BARS IN FULL LENGTH AND CUT IN FIELD TO FIT.



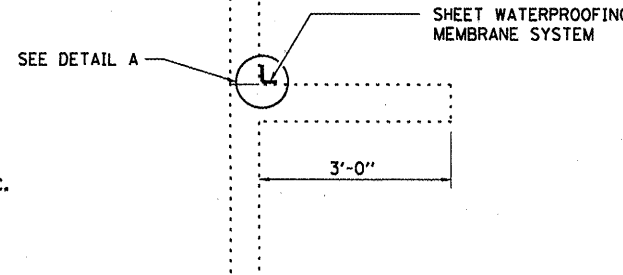
**SECTION A-A**

\*\* DRILL & GROUT v<sub>1</sub>(E) BARS INTO EXISTING CONCRETE FOOTING, ACCORDING TO SECTION 584 OF THE STANDARD SPEC.



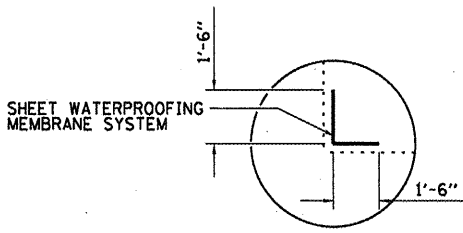
**CORNER DETAIL**

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.

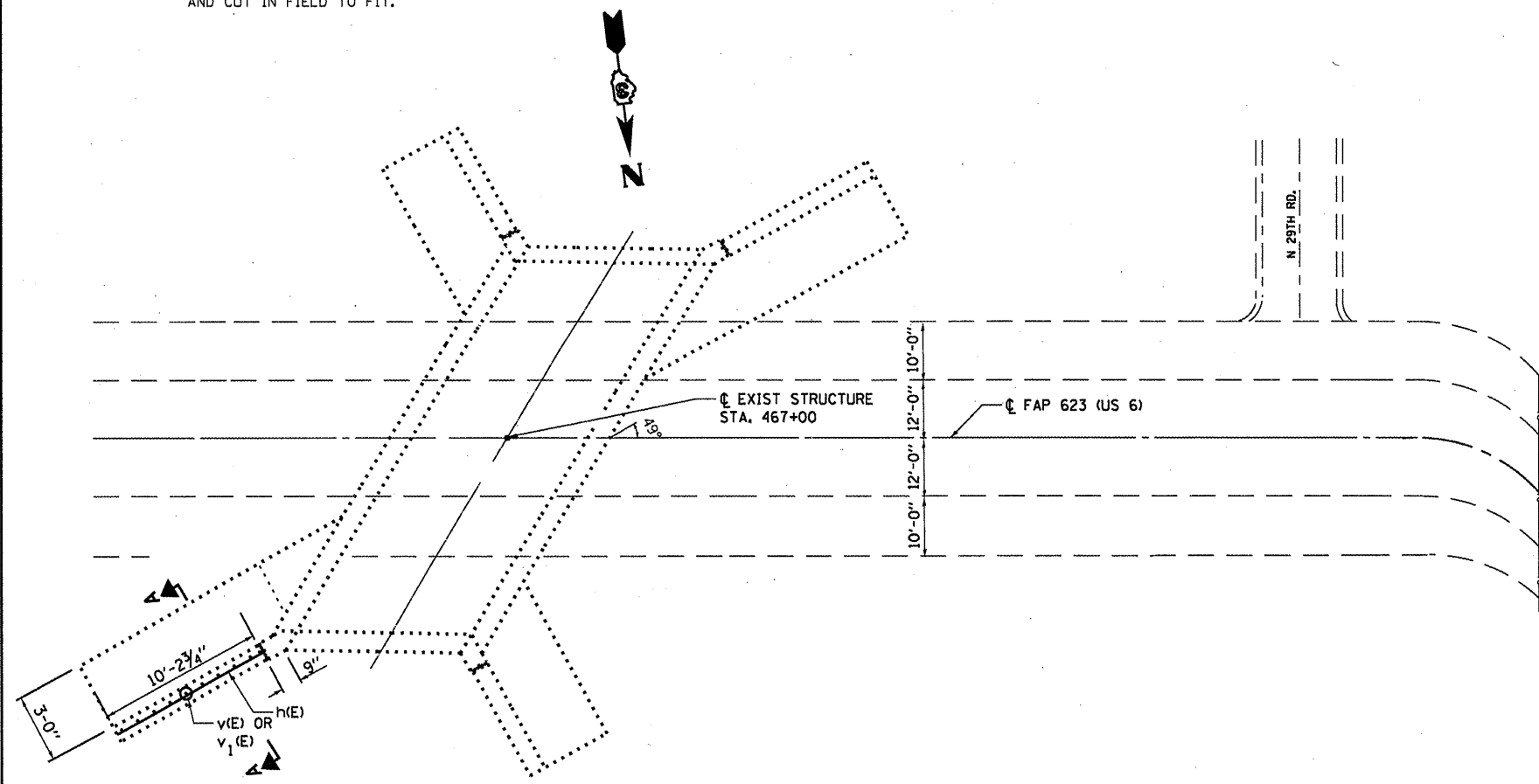


**SECTION A-A**

SHEET WATERPROOFING MEMBRANE SYSTEM



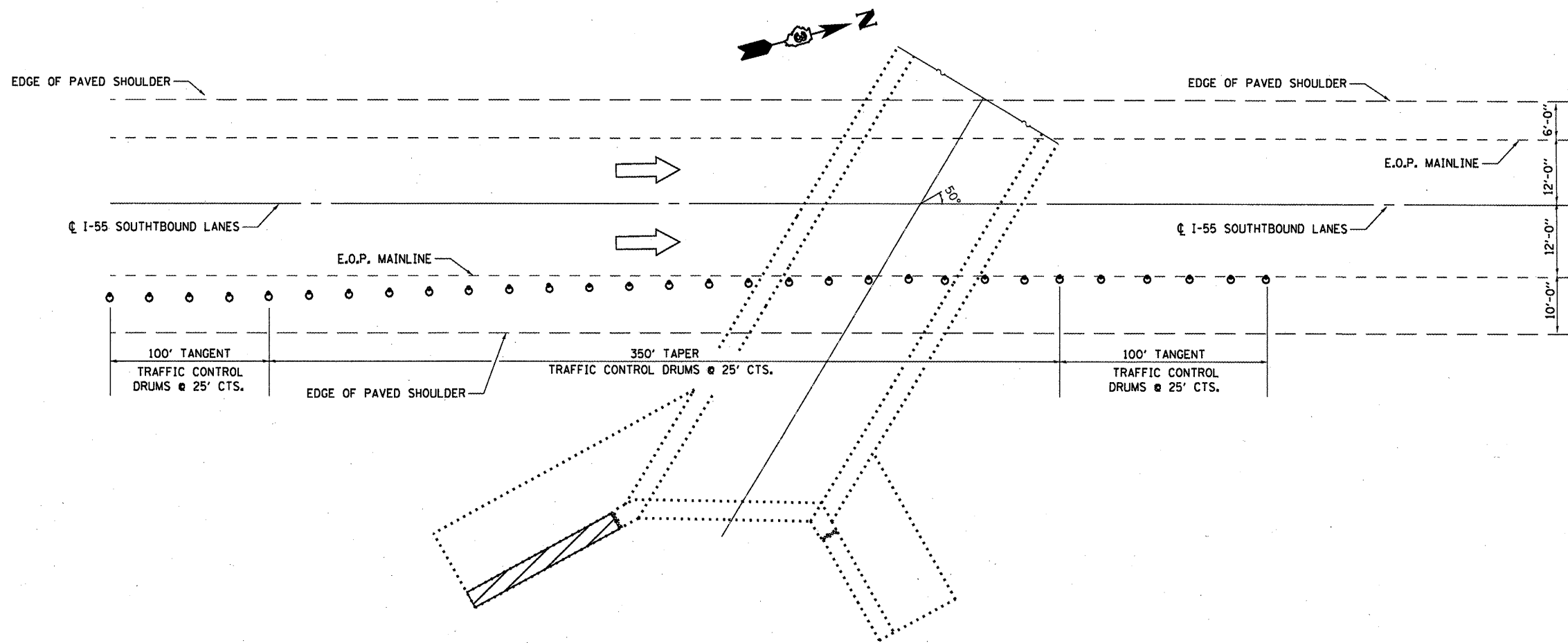
**DETAIL A**



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	3	#5	10'-0"	—
v(E)	11	#6	3'-0"	—
v <sub>1</sub> (E)	11	#4	3'-0"	—
Concrete Box Culverts			Cu. Yd.	1.0
Reinforcement Bars			Pound	103
Sheet Waterproofing Membrane System			Sq. Yd.	4.0












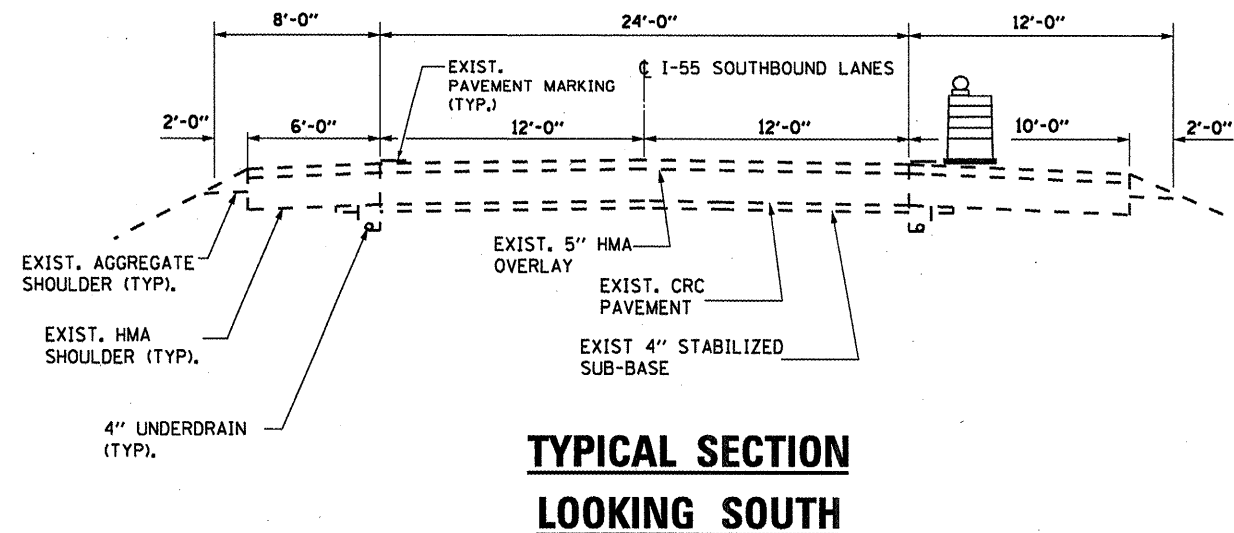


**TRAFFIC CONTROL PLAN**  
**LOCATION 6: SN: 032-2519**

 **DAMAGED WING WALL TO BE REPLACED**

**SYMBOLS**

- |   |  |
|---|--|
|  Work area                   |  Drum with steady burning bi-directional light        |
|  Sign                        |  Temporary concrete barrier                           |
|  Type III barricade          |  Double vertical panel (see detail)                   |
|  Traffic signal w/Back Plate |  Crystal, bidirectional barrier wall/guardrail marker |
|  Impact attenuator           |  |



**TYPICAL SECTION**  
**LOOKING SOUTH**

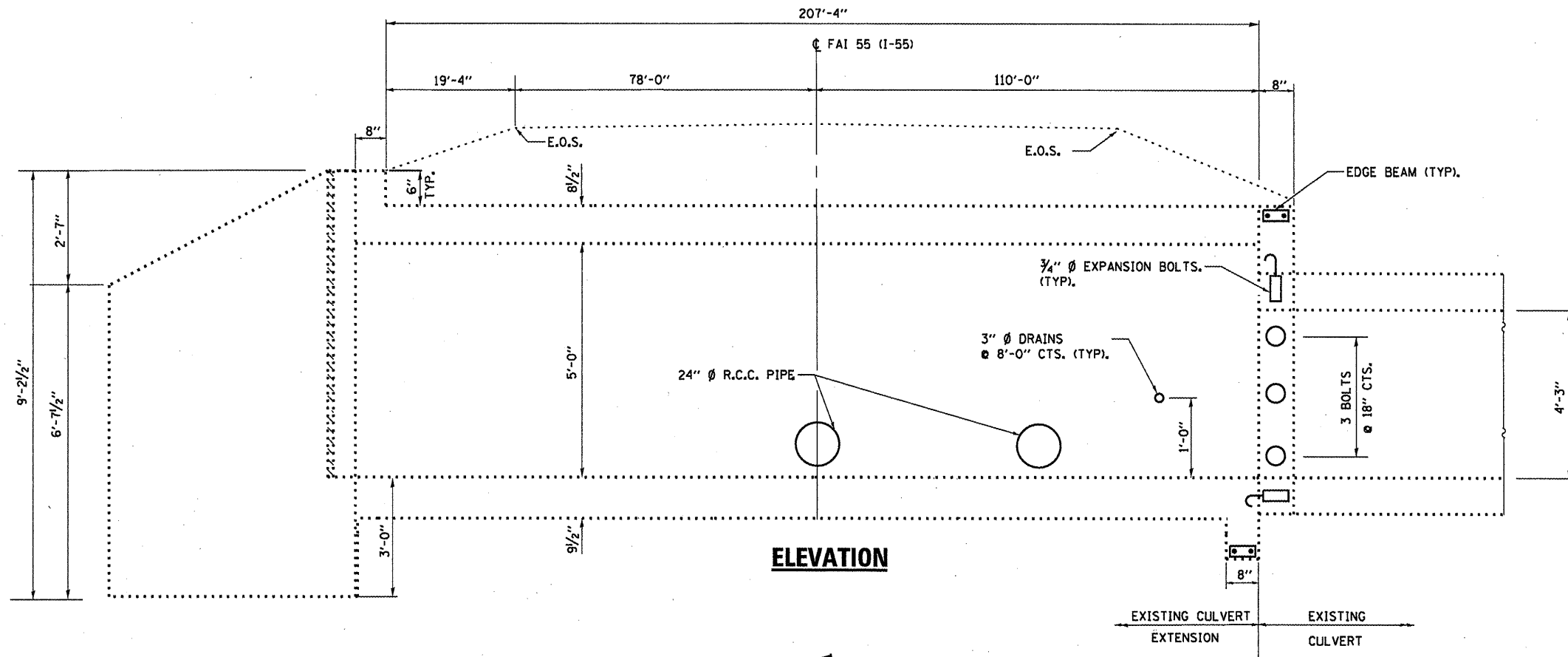
\*This detail is to be used in conjunction with Traffic Control and Protection Standard 701406 and 701400.

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cs:\pw_work\peidot\patelyj\0266589\036642-sheets.dgn		DRAWN - YOGESH PATEL	REVISED -
PLOT SCALE = 1/8" = 1' / in.		CHECKED - RON WOODSHANK	REVISED -
PLOT DATE = 12/27/2011		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

<b>TRAFFIC CONTROL PLAN</b>	
<b>FOR LOCATION 6: SN 032-2519</b>	
SCALE: _____	SHEET NO. 1 OF 5 SHEETS
STA. _____	TO STA. _____

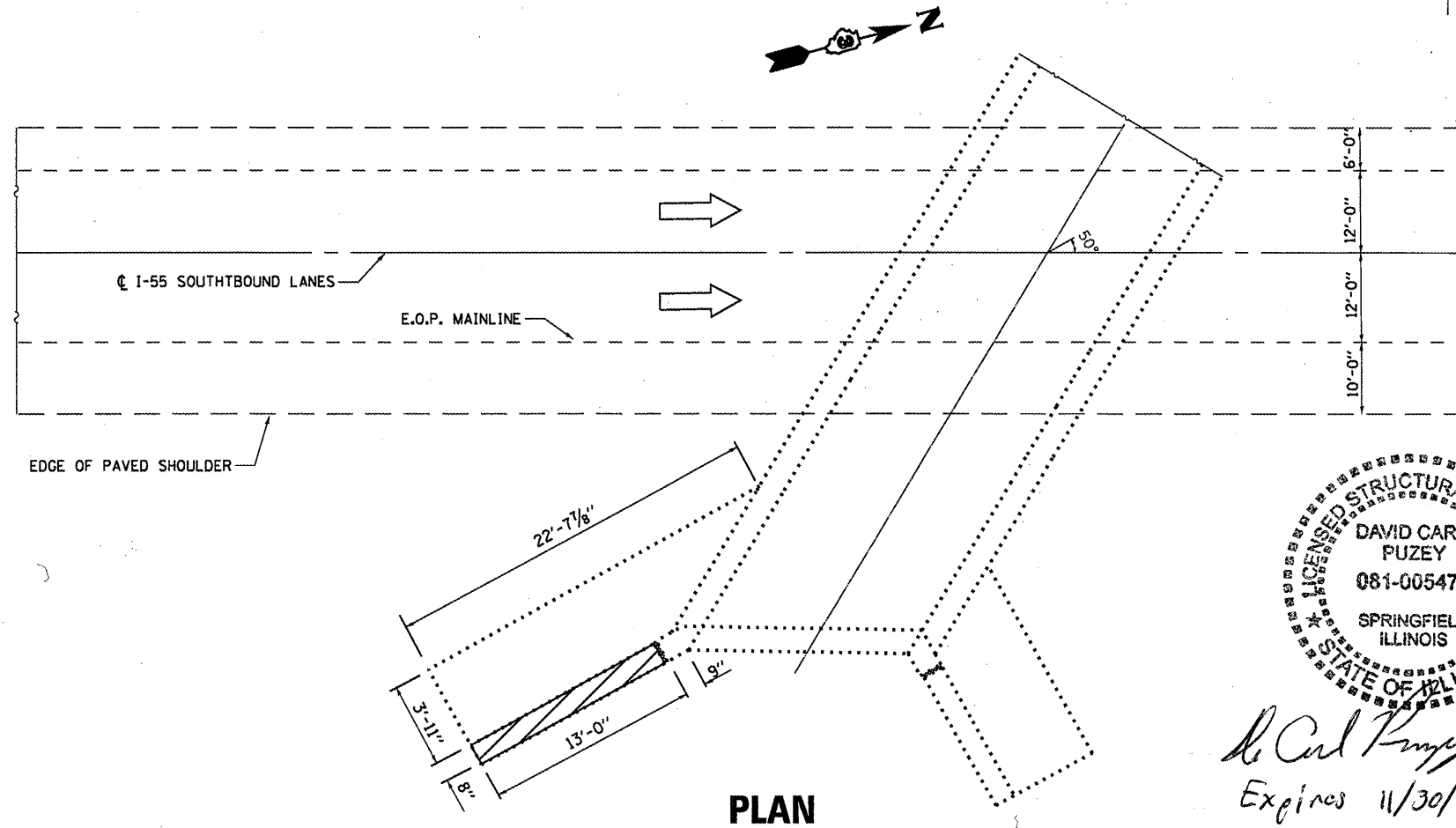
F.A.P. RTE. VAR.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	VARIOUS	VARIOUS	40	33
			CONTRACT NO. 66B42	
ILLINOIS FED. AID PROJECT				



**ELEVATION**

**GENERAL NOTES**

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**

 **DAMAGED WING WALL TO BE REPLACED**

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
STRUCTURE EXCAVATION	CU YD	26.0
FURNISHED EXCAVATION	CU YD	26.0
CONCRETE REMOVAL	CU YD	1.6
CONCRETE BOX CULVERTS	CU YD	1.6
REINFORCEMENT BARS (EPOXY COATED)	POUND	155.0
SHEET WATERPROOFING MEMBRANE SYSTEM	SQ YD	5.0



*David Carl Puze* 1/31/12  
 Expires 11/30/12

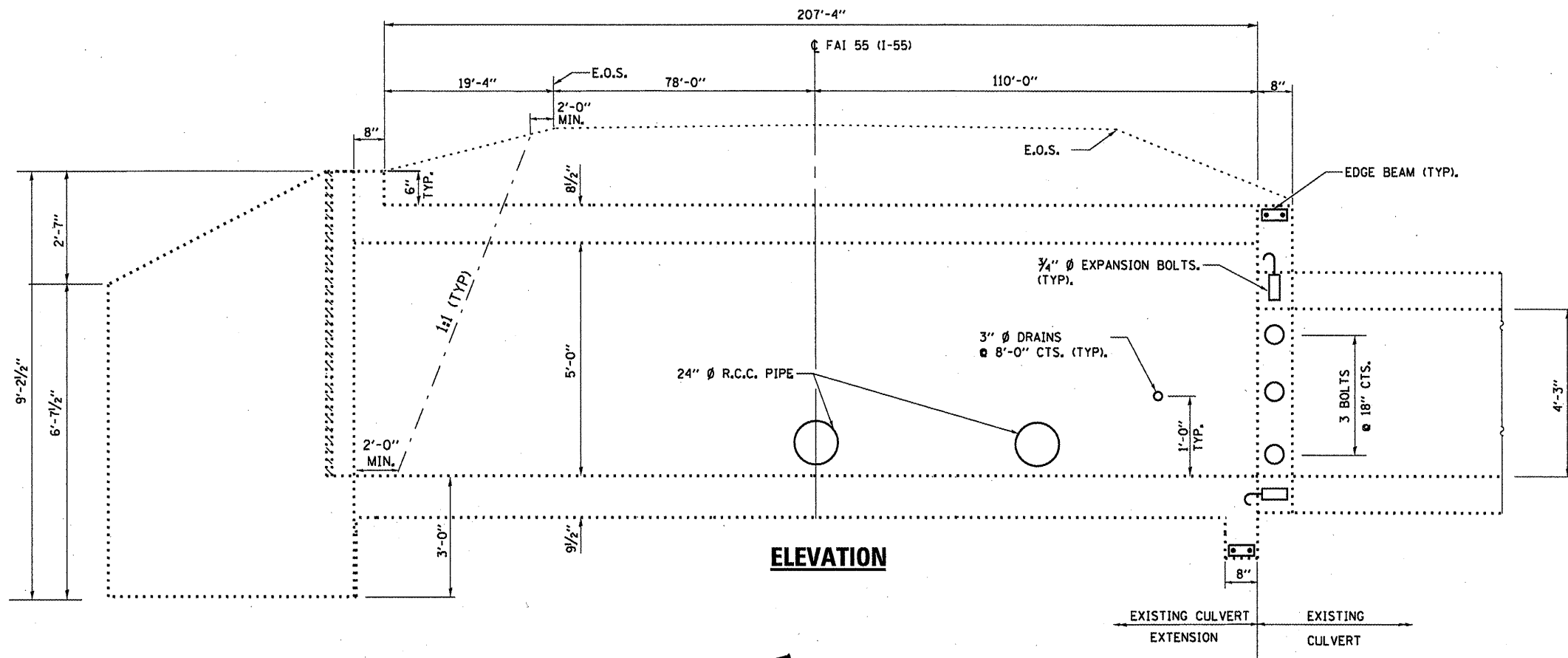
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	PLOT DATE = 12/27/2011	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

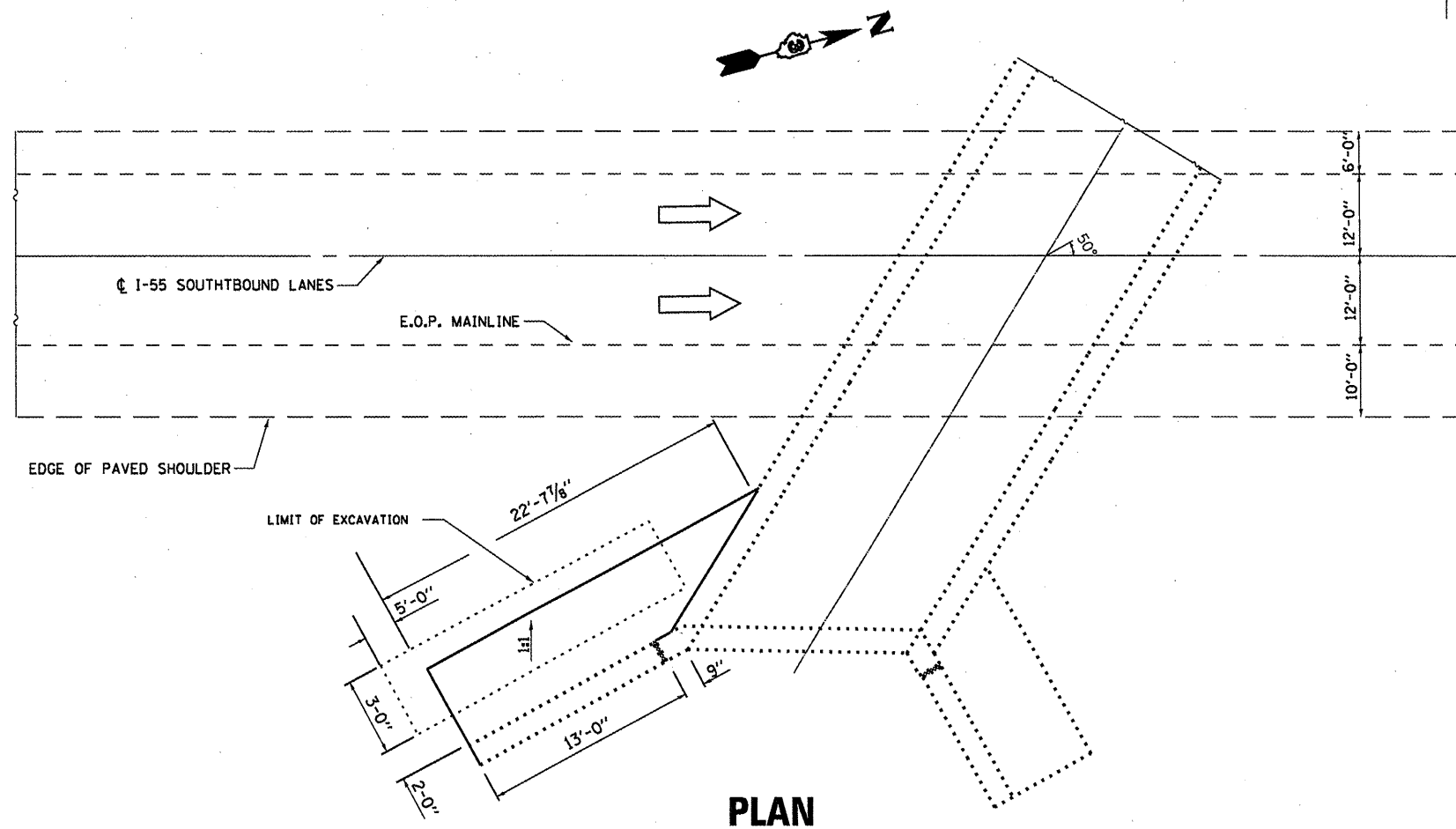
**GENERAL PLAN AND ELEVATION  
 FOR LOCATION 6: SN 032-2519**

SCALE: \_\_\_\_\_ SHEET NO. 2 OF 5 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE. VAR	SECTION VARIOUS	COUNTY VARIOUS	TOTAL SHEETS 40	SHEET NO. 34
			CONTRACT NO. 66B42	
ILLINOIS FED. AID PROJECT				



**ELEVATION**



**PLAN**

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
STRUCTURE EXCAVATION	CU YD	26
FURNISHED EXCAVATION	CU YD	26

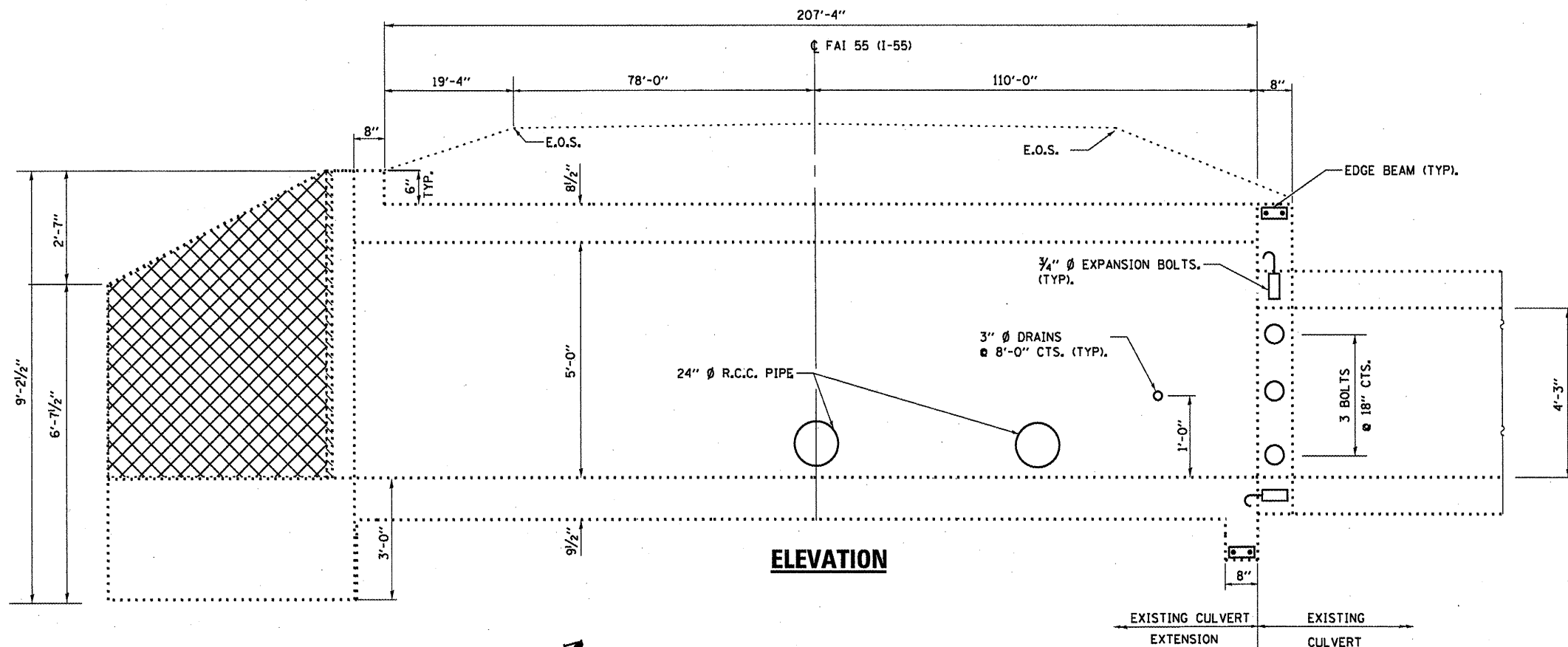
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	PLOT SCALE = 100.0000 / 1"	CHECKED - RON WOODSHANK	REVISED -
	PLOT DATE = 12/27/2011	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STRUCTURE EXCAVATION DETAILS  
FOR LOCATION 6: SN 032-2519**

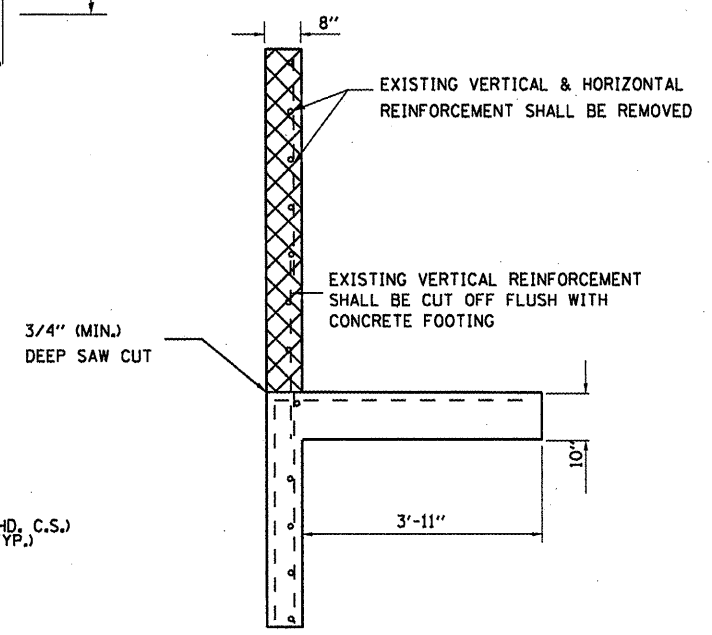
SCALE: SHEET NO. 3 OF 5 SHEETS STA. TO STA.

F.A.P. RTE. VAR	SECTION VARIOUS	COUNTY VARIOUS	TOTAL SHEETS 40	SHEET NO. 35
			CONTRACT NO. 66B42	
ILLINOIS FED. AID PROJECT				

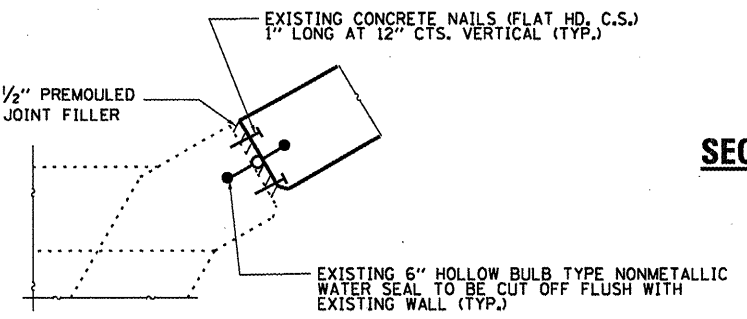


**ELEVATION**

**CONCRETE REMOVAL**

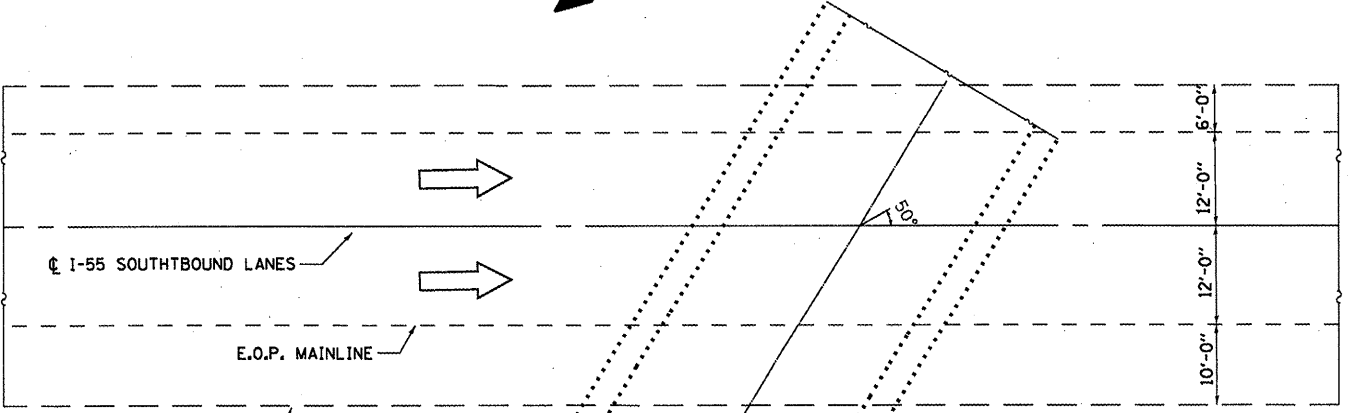


**SECTION A-A (TYP)**



**CORNER DETAIL**

NOTE: REMOVAL TO BE INCLUDED IN THE COST OF "CONCRETE REMOVAL"



**PLAN**

**BILL OF MATERIAL**

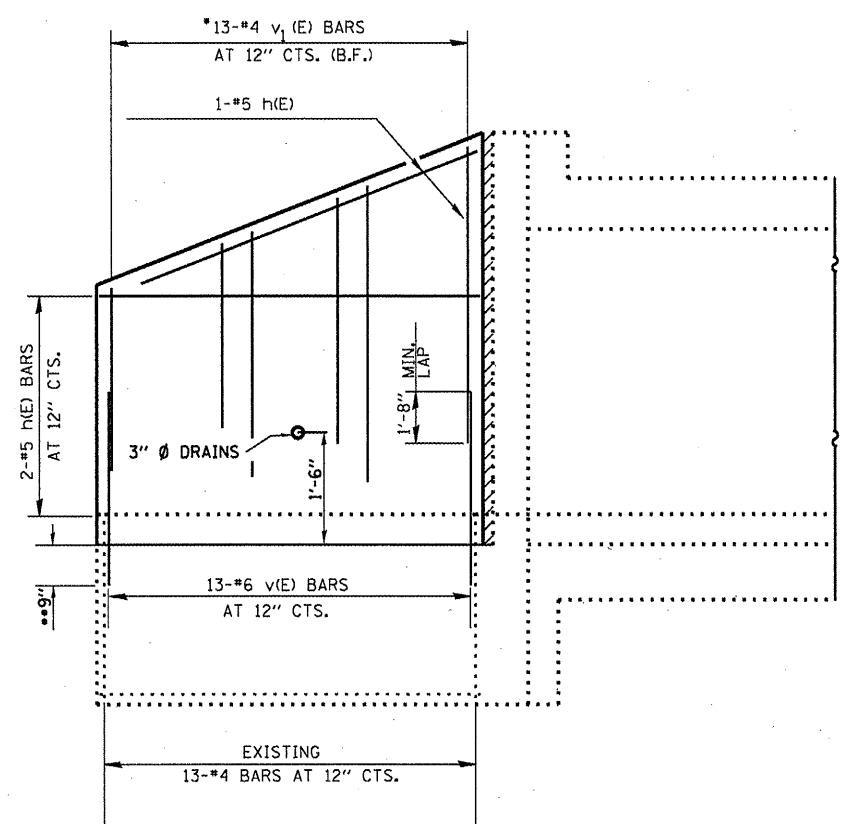
ITEM	UNIT	TOTAL
CONCRETE REMOVAL	CU YD	1.6

FILE NAME =	USER NAME = petelyj	DESIGNED - YOGESH PATEL	REVISED -
c:\pwork\pedit\petelyj\0266589\036642-sheets.dgn		DRAWN - YOGESH PATEL	REVISED -
	PLOT SCALE = 1/8" = 1'-0"	CHECKED - RON WOODSHANK	REVISED -
	PLOT DATE = 12/27/2011	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

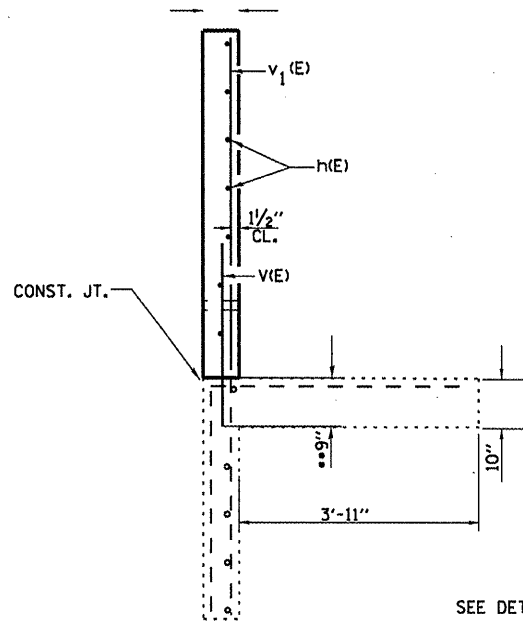
**CONCRETE REMOVAL DETAILS  
FOR LOCATION 6: SN 032-2519**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	VARIOUS	VARIOUS	40	36
			CONTRACT NO. 66B42	
ILLINOIS FED. AID PROJECT				



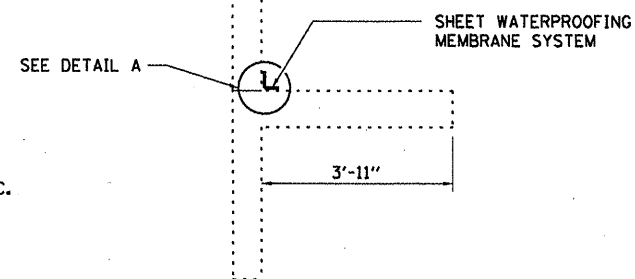
**WING ELEVATION**

\*ORDER v<sub>1</sub>(E) BARS IN FULL LENGTH AND CUT IN FIELD TO FIT.



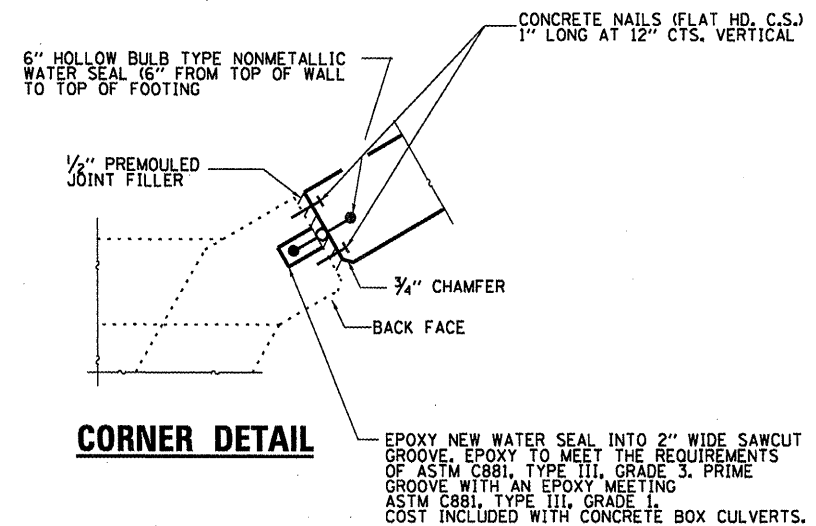
**SECTION A-A**

\*\* DRILL & GROUT v<sub>1</sub>(E) BARS INTO EXISTING CONCRETE FOOTING, ACCORDING TO SECTION 584 OF THE STANDARD SPEC.



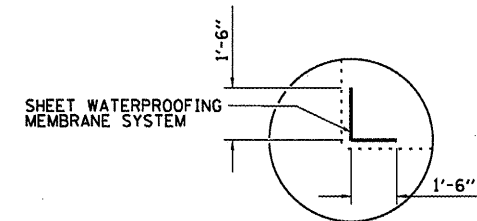
**SECTION A-A**

SHEET WATERPROOFING MEMBRANE SYSTEM

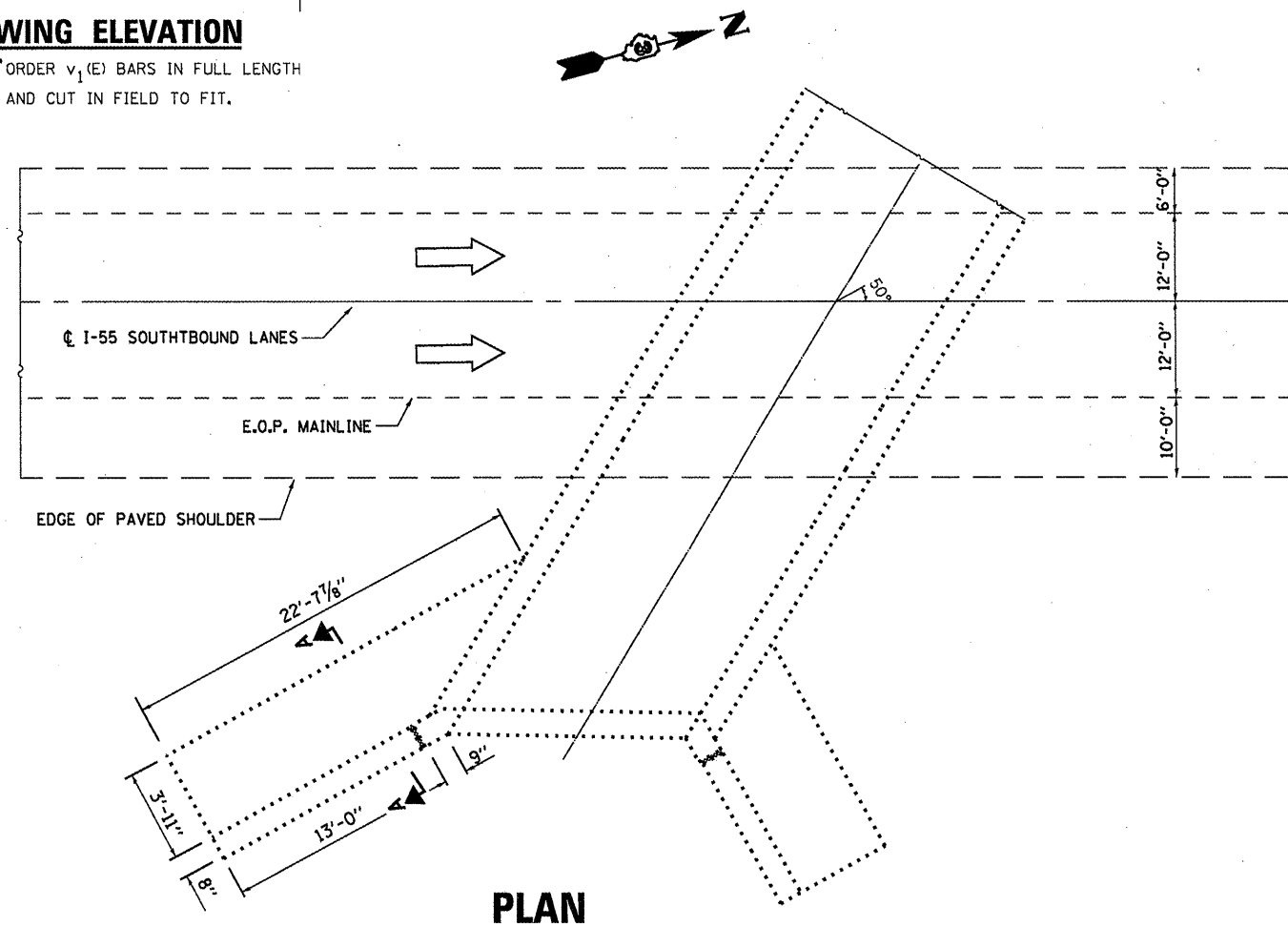


**CORNER DETAIL**

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.



**DETAIL A**



**PLAN**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	4	#5	12'-9"	—
v(E)	13	#6	3'-0"	—
v <sub>1</sub> (E)	13	#4	5'-0"	—
Concrete Box Culverts			Cu. Yd.	1.6
Reinforcement Bars			Pound	155.0
Sheet Waterproofing Membrane System			Sq. Yd.	5.0

FILE NAME =	USER NAME = petaluj	DESIGNED - YOGESH PATEL	REVISED -
c:\pw_work\p\pidot\petaluj\d0266589\036842-sheets.dgn		DRAWN - YOGESH PATEL	REVISED -
PLOT SCALE = 100.0000 / in.		CHECKED - RON WOODSHANK	REVISED -
PLOT DATE = 12/27/2011		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

RECONSTRUCTION DETAILS  
FOR LOCATION 6: SN 032-2519

F.A.P. RTE. VAR.	SECTION VARIOUS	COUNTY VARIOUS	TOTAL SHEETS 40	SHEET NO. 37
			CONTRACT NO. 66842	
ILLINOIS FED. AID PROJECT				



## SOIL BORING LOG

Date 3/28/73

ROUTE FA 68 (IL 23) DESCRIPTION IL 23 over Baker Run LOGGED BY W. Beck

SECTION 104BR LOCATION SW 1/4, SEC. 15, TWP. 29N, RNG. 5E

COUNTY Livingston DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 053-2012  
Station 390+62

BORING NO. 1 (N.E. Wing)  
Station 389+85  
Offset 11.00ft Lt.  
Ground Surface Elev. 667.51 ft

Depth (ft)	Penetration (blows/6")	Soil Description	SPT (N value)			Groundwater		
			(ft)	(/6")	(tsf)	(%)	Elev. (ft)	Remarks
0		Stiff, Sand & Gravel (Fill)						Surface Water Elev. 656.90 ft
5	5	Stiff, Brownish/Black, Silty Clay	665.51					Stream Bed Elev. _____ ft
6	5			1.5	28.0			Groundwater Elev.:
	6		P					
	3	Soft, Black, Clay (Root Fragments)	662.51	-5				Upon Completion _____ ft
	5		B		0.5	35.0		After _____ Hrs. _____ ft
	4	Stiff, Gray/Brown, Clay	660.51					End of Boring 641.01
	5		1.3	22.0				
	7		P					
	5	Very Stiff, Mottled, Gray/Brown, Clay	658.01	-10				
	6		3.0	26.0				
	9		P					
	8	Stiff, Gray, Lake Clay	650.51					
	11		2.3	24.0				
	6							
	7		2.5	25.0				
	4		1.8	25.0				
	7							

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)

### LOCATION 1: SN: 053-2012



## SOIL BORING LOG

Date 3/27/73

ROUTE FA-68 (IL 23) DESCRIPTION IL 23 over Branch of Baker Run LOGGED BY W. Beck

SECTION 104BR-1 LOCATION SW 1/4, SEC. 15, TWP. 29N, RNG. 5E

COUNTY Livingston DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 053-2013  
Station 394+00

BORING NO. 1  
Station 393+96  
Offset 12.00ft Rt.  
Ground Surface Elev. 668.00 ft

Depth (ft)	Penetration (blows/6")	Soil Description	SPT (N value)			Groundwater			
			(ft)	(/6")	(tsf)	(%)	Elev. (ft)	Remarks	
0		Sand & Gravel (Fill)						Surface Water Elev. _____ ft	
6	6	Stiff, Gray, Lake Clay	668.00					Stream Bed Elev. _____ ft	
9	2		Medium, Black, Silty Clay	666.00					Groundwater Elev.:
	3			0.8	17.0				
	4	B					Upon Completion _____ ft	After _____ Hrs. _____ ft	
	4	Stiff, Gray/Brown, Clay	663.50					End of Boring 642.00	
	5		1.7	16.0					
	7		B						
	3	Very Stiff, Mottled, Brownish/Gray, Lake Clay	659.00						
	4		1.7	20.0					
	4		B						
	4	Very Stiff, Gray, Lake Clay	651.50						
	6		3.7	18.0					
	7		B						
	5	Stiff, Gray, Lake Clay	648.00	-20					
	8		2.1	18.0					
	8	B							
	5								

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)

### LOCATION 2: SN: 053-2013

FILE NAME = c:\pe_work\pedit\petaluj\d0266509\036642-sheets.dgn	USER NAME = petaluj	DESIGNED - YOGESH PATEL	REVISED - _____	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>SOIL BORING LOGS</b>	F.A.P. RTE. VAR.	SECTION VARIOUS	COUNTY VARIOUS	TOTAL SHEETS 40	SHEET NO. 38		
PLOT SCALE = 100.0000 ' / in.	CHECKED - RON WOODSHANK	REVISED - _____				SCALE: _____	SHEET NO. 1 OF 3 SHEETS	STA. _____	TO STA. _____	CONTRACT NO. 66842		
PLOT DATE = 12/27/2011	DATE - _____	REVISED - _____				ILLINOIS FED. AID PROJECT						



Illinois Department  
of Transportation  
Division of Highways  
ILLINOIS DOT

### SOIL BORING LOG

Page 1 of 1

Date 1/9/73

ROUTE FA-68 (IL 23) DESCRIPTION IL 23 over a Stream LOGGED BY J. Safranski

SECTION 105BR LOCATION NE 1/4, SEC. 33, TWP. 29N, RNG. 5E

COUNTY Livingston DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 053-2014  
Station 536+98.2  
BORING NO. 1  
Station 536+51  
Offset 12.00ft Lt.  
Ground Surface Elev. 644.77 ft

DEPTH (ft)	SOIL DESCRIPTION	DIAMETER (in)	UNIT	MOISTURE (%)	DEPTH (ft)	DIAMETER (in)	UNIT	MOISTURE (%)
5	Surface Water Elev. 638.57 ft				5			
7	Stream Bed Elev.				7	0.9	23.0	
8	Groundwater Elev.: First Encounter Upon Completion After Hrs.				8	B		
623.27	Medium to Stiff, Gray, Silty Clay (continued)							
	End of Boring							
6								
6		1.5	28.0					
8		P						
640.27								
-5	Medium, Pale Green & Gray, Organic Clay to Clay Loam				-25			
2								
3		0.5	24.0					
4		B						
637.77								
9	Stiff, Mottled, Yellowish/Brown, Clay Till							
9		1.9	22.0					
12		B						
635.27								
-10	Hard, Brownish/Gray, Clay Till				-30			
12								
15		5.2	20.0					
19		B						
630.27								
-15	Very Stiff, Gray, Clay (Lacustrine)				-35			
11								
12		3.9	20.0					
15		S						
625.27								
-20	Medium to Stiff, Gray, Silty Clay				-40			
11								
12		3.9	21.0					
13		B						

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)

**LOCATION 3: SN: 053-2014**



Illinois Department  
of Transportation  
Division of Highways  
ILLINOIS DOT

### SOIL BORING LOG

Page 1 of 1

Date 10/24/11

ROUTE IL 251 (FAP 46) DESCRIPTION IL 251 over Ditch, 2.0 Miles North of IL 71 LOGGED BY Larry Myers

SECTION LOCATION NE 1/4, SEC. 34, TWP. 33N, RNG. 1E

COUNTY LaSalle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 050-2523 (Exist.)  
Station 349+42  
BORING NO. 1 (N.W. Quad.)  
Station 349+20  
Offset 19.00ft Rt.  
Ground Surface Elev. 627.35 ft

DEPTH (ft)	SOIL DESCRIPTION	DIAMETER (in)	UNIT	MOISTURE (%)	DEPTH (ft)	DIAMETER (in)	UNIT	MOISTURE (%)
15	Surface Water Elev.				15			
17	Stream Bed Elev.				17	11.9	9.7	
23	Groundwater Elev.: First Encounter Upon Completion After Hrs.				23	S		
624.85	Augered White Shoulder Stone, Brown Silty Clay Loam Fill							
4								
4	Hard & Very Stiff Brown & Gray Silty Clay Loam Till Fill	4.0	17.4		16			
5		P			16	10.7	7.5	
622.85					21	S		
-5	Very Stiff to Hard Black & Dark Gray Silty Clay Loam Fill				-25			
3					17			
3		2.5	25.1		18	11.3	9.4	
3		P			23	S		
4					15			
4		4.0	21.6		18	11.9	9.3	
5		P			24	S		
-10					-30			
3					15			
4		3.5	21.2		16	11.3	9.3	
5		P			22	S		
615.35					595.85			
7	Hard Brown Silty Clay Loam Till							
9		10.0	11.1					
15		S						
-15					-35			
9								
15		11.1	10.7					
21		S						
10								
16		11.3	10.5					
20		S						
607.85					-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)

**LOCATION 4: SN: 050-2523**

FILE NAME =	USER NAME = petelyj	DESIGNED - YOGESH PATEL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOIL BORING LOGS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
al\pr_work\psidet\petelyj\d8266509\036642-sheets.dgn		DRAWN - YOGESH PATEL	REVISED -			VAR	VARIOUS	VARIOUS	40	39	
PLOT SCALE = 100.0000 / 1 in.		CHECKED - RON WOODSHANK	REVISED -			CONTRACT NO. 66B42					
PLOT DATE = 12/27/2011		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



Illinois Department  
of Transportation  
Division of Highways  
ILLINOIS DOT

### SOIL BORING LOG

Page 1 of 1

Date 10/21/11

ROUTE US 6 (FAP 623) DESCRIPTION US 6 over Stream, 3.5 Miles East of IL 178 LOGGED BY Larry Myers

SECTION (20, 31)R, W & RS LOCATION SW 1/4, SEC. 1, TWP. 33N, RNG. 2E

COUNTY LaSalle DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 050-2589 (Exst.)  
Station 467+00  
BORING NO. 1 (N.E. Quad.)  
Station 467+25  
Offset 18.00ft Lt.  
Ground Surface Elev. 615.11 ft

Description	Elev. (ft)	D	B	U	M	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter (ft)	Upon Completion (ft)	After (Hrs)	D	B	U	M	SPT (blows)	SPT (blows)	SPT (blows)	SPT (blows)	
																				(ft)
Augered White Shoulder Stone, Black Silty Clay Loam Topsoil Fill	612.61																			
Very Stiff Black Silty Clay Loam Topsoil Fill	608.11																			
Stiff Black Silty Clay Loam Fill	605.11																			
Hard Brown & Gray Silty Clay Loam Till	603.11																			
Hard Gray Silty Clay Loam Till	595.61																			

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)

**LOCATION 5: SN: 050-2589**



Illinois Department  
of Transportation  
Division of Highways  
ILLINOIS DOT

### SOIL BORING LOG

Page 1 of 1

Date 11/23/11

ROUTE I-55 (FAI 55) DESCRIPTION I-55 over a Stream, 6.6 miles North of Livingston County Line LOGGED BY Larry Myers

SECTION 32-2 LOCATION SE 1/4, SEC. 18, TWP. 31N, RNG. 8E

COUNTY Grundy DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 032-2519  
Station 655+79  
BORING NO. 1  
Station 656+71  
Offset 88.00ft Lt.  
Ground Surface Elev. 597.44 ft

Description	Elev. (ft)	D	B	U	M	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter (ft)	Upon Completion (ft)	After (Hrs)	D	B	U	M	SPT (blows)	SPT (blows)	SPT (blows)	SPT (blows)	
																				(ft)
Augered Brown Silty Clay Loam Till Fill	594.94																			
Very Stiff Brown Silty Clay Loam Till Fill	592.44																			
Hard to Very Stiff Dark Gray Silty Clay Loam	590.44																			
Very Stiff to Hard Brown Silty Clay Loam Till	577.94																			

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)

**LOCATION 6: SN: 032-2519**

FILE NAME =	USER NAME = ppatelj	DESIGNED - YOGESH PATEL	REVISED -
ar\pwork\pvidot\patalj\08265689\036642-sheta.dgn		DRAWN - YOGESH PATEL	REVISED -
PLOT SCALE = 100.0000' / in.		CHECKED - RON WOODSHANK	REVISED -
PLOT DATE = 12/27/2011		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: _____		SHEET NO. 3 OF 3 SHEETS		STA. _____ TO STA. _____	
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F.A.P. RTE. VAR.	SECTION VARIOUS	COUNTY VARIOUS	TOTAL SHEETS 40	SHEET NO. 40
			CONTRACT NO. 66B42	
ILLINOIS FED. AID PROJECT				