

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	(114)	BUREAU	14	1

INDEX OF SHEETS

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2. GENERAL NOTES
3. SUMMARY OF QUANTITIES
4. TYPICAL SECTION
5. TRAFFIC CONTROL - SB (UPSTREAM)
6. TRAFFIC CONTROL - NB (DOWNSTREAM)
7. GENERAL ROADWAY PLAN
8. EXISTING PLAN AND ELEVATION
9. BORING LOGS
10. CONCRETE REMOVAL
11. CONCRETE BOX CULVERTS - UPSTREAM
12. CONCRETE BOX CULVERTS - DOWNSTREAM
13. SHEET WATERPROOFING MEMBRANE SYSTEM
14. EXISTING BOC CULVERT PLANS

STANDARDS

- | | |
|-----------|----------------------------------------------------------------------------|
| 000001-05 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS |
| 001001-01 | AREAS OF REINFORCEMENT BARS |
| 001006 | DECIMAL OF AN INCH AND OF A FOOT |
| 630101-07 | GUARDRAIL MOUNTED ON EXISTING CULVERTS |
| 701001-01 | OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 4.5 m (15') AWAY |
| 701006-02 | OFF-ROAD OPERATIONS 2L, 2W, 4.5 m (15') TO 600 mm (24") FROM PAVEMENT EDGE |
| 701201-02 | LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH |
| 701206-01 | LANE CLOSURE, 2L, 2W, NIGHT ONLY, FOR SPEEDS ≥ 45 MPH |
| 701316-03 | LANE CLOSURE, 2L, 2W, BRIDGE REPAIR, FOR SPEEDS ≥ 45 MPH |
| 701901 | TRAFFIC CONTROL DEVICES |

MICROFILMED _____
 REEL NUMBER _____
 AWARDED _____
 RESIDENT ENGINEER _____
 AS BUILT CHANGES WERE MADE
 ON THE FOLLOWING SHEETS _____

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

DISTRICT 3 NO. (815) 434-6131

PROJECT ENGINEER: JOE KANNEL
 UNIT CHIEF: RON WOODSHANK

CONTRACT NO. 66729

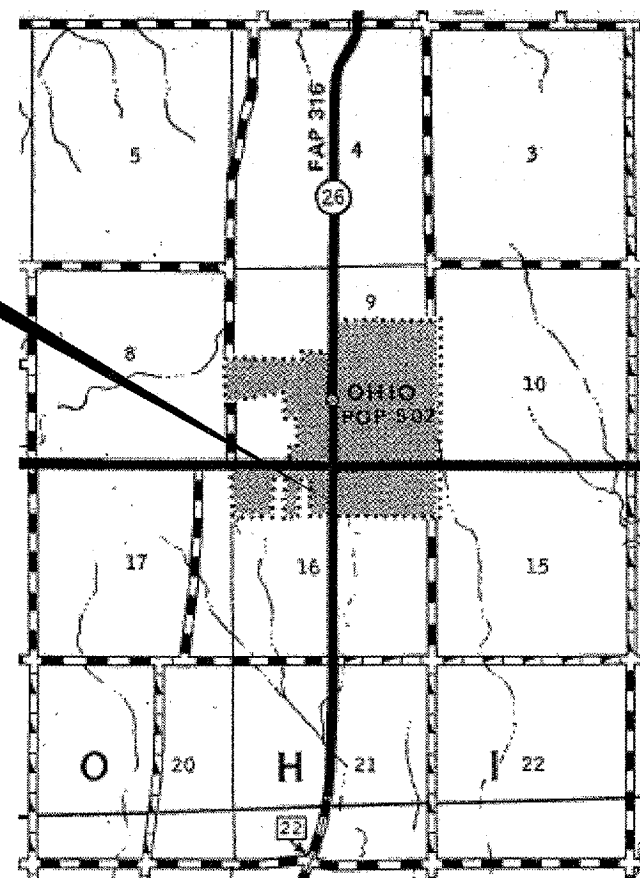
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

**PROPOSED
 HIGHWAY PLANS**

FAP ROUTE 316 (IL ROUTE 26)
 SECTION (114)

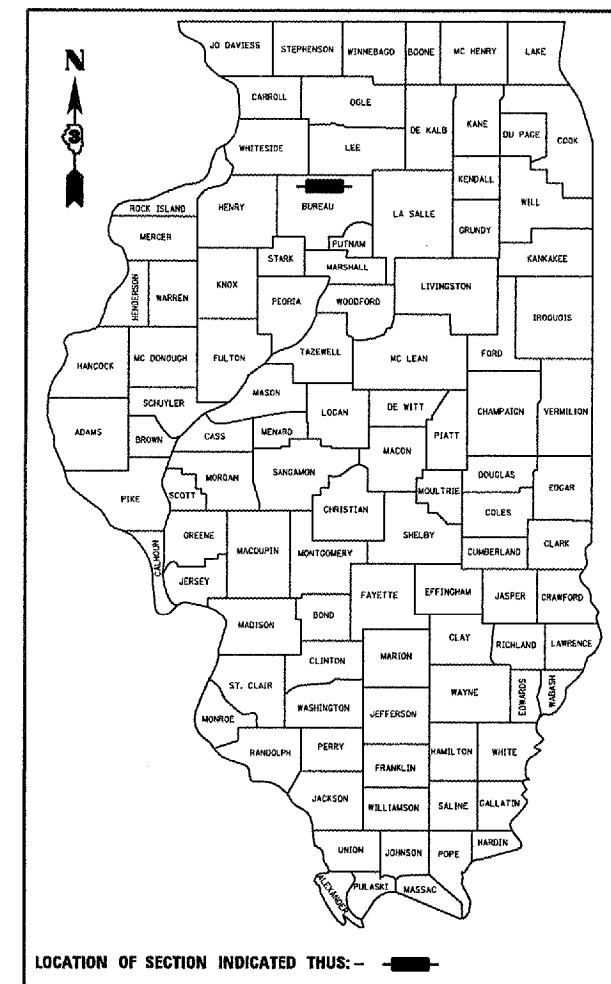
BUREAU COUNTY
 C-93-086-07
 BOX CULVERT REPAIR

PROJECT LOCATION
 SN 006-2515
 6' X 4' BOX CULVERT
 0.2 MI. SOUTH OF IL ROUTE 92



LOCATION MAP
 NOT TO SCALE
 POINT LOCATION

D-93-002-08



LOCATION OF SECTION INDICATED THUS: - [black rectangle] -

FUNCTIONAL CLASSIFICATION
 URBAN - OTHER PRINCIPAL ARTERIAL
 F.A.P. ROUTE 316 (IL 26)
 2005 ADT = 2550
 P.V = 78.4% M.U. = 15.7% S.U. = 5.9%

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED 12/20 2007

Acaryn Paganon
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

February 1, 2008
Eric E. Harms
 INTERIM ENGINEER OF DESIGN AND ENVIRONMENT

February 20, 2008
Christine M. Reed
 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 ROUTINE 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 THE SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED UPON THE UNIT BID PRICE FOR THE WORK.

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

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE "JULIE" NUMBER IS 1-800-892-0123. A MINIMUM OF FORTY-EIGHT (48) HOURS ADVANCE NOTICE IS REQUIRED.

THE COST OF ANY SAW CUTS MADE TO COMPLETE THE WORK AS DESCRIBED IN PLAN DETAILS, UNLESS OTHERWISE NOTED SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED WITH THE VARIOUS REMOVAL PAY ITEMS INVOLVED.

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.

ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 GR 60 (IL MODIFIED). SEE SPECIAL PROVISIONS.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

EXISTING REINFORCEMENT BARS EXTENDING INTO 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.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL EXISTING FIELD TILE WITHIN THE LIMITS OF CONSTRUCTION. IF ANY FIELD TILE IS DAMAGED DUE TO THE CONTRACTOR'S OPERATIONS, THE TILE SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.

REPAIR OF EXISTING FIELD TILE ENCOUNTERED BELOW $\frac{1}{2}$ GRADE SHALL BE ACCORDING TO SECTION 611 OF THE STANDARD SPECIFICATIONS. COST OF REPAIR SHALL BE ACCORDING TO SECTION 109.04 OF THE STANDARD SPECIFICATIONS

DATE: 12.18.07

PREPARED BY: Rick Powell
DISTRICT STUDIES & PLANS ENGINEER

EXAMINED BY: Harold Jung
DISTRICT CONSTRUCTION ENGINEER

[Signature]
DISTRICT MATERIALS ENGINEER

[Signature]
DISTRICT OPERATIONS ENGINEER

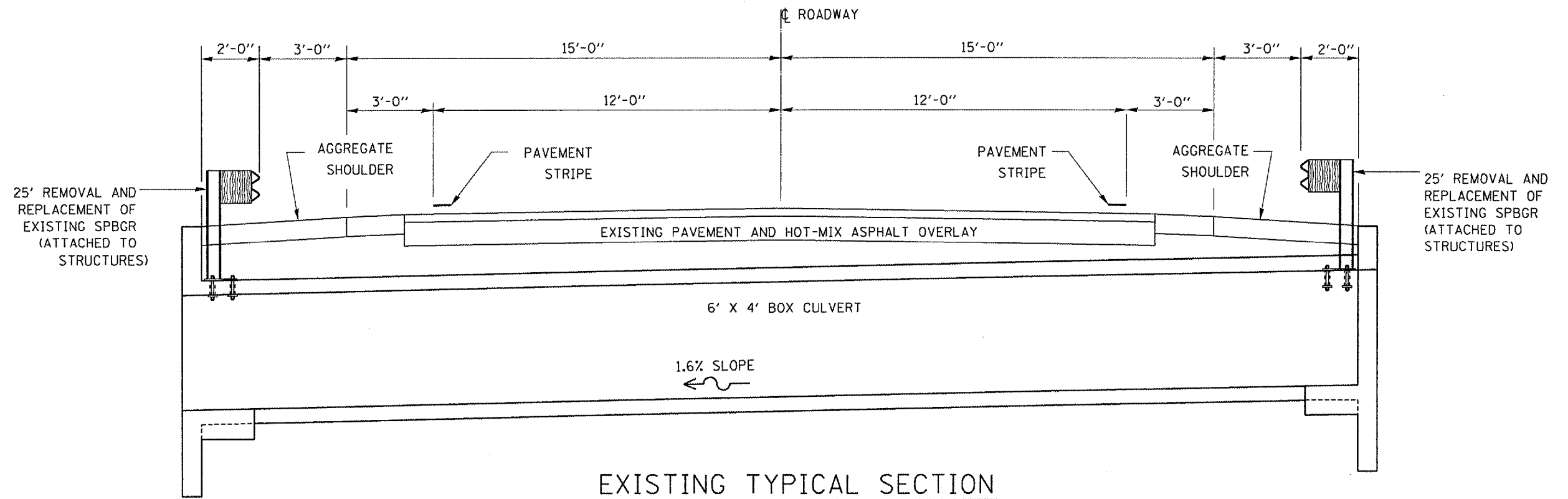
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	PLOT SCALE = 103.4029' / IN.	DRAWN - RON WOODSHANK	REVISED -			SCALE: _____	SHEET NO. 2 OF 6 SHEETS	STA. 1061+00 TO STA. 1063+00	FED. ROAD DIST. NO. ILLINOIS		
	PLOT DATE = Dec 12, 2007 - 07:41:38 AM	CHECKED -	REVISED -								
		DATE -	REVISED -								

SUMMARY OF QUANTITIES

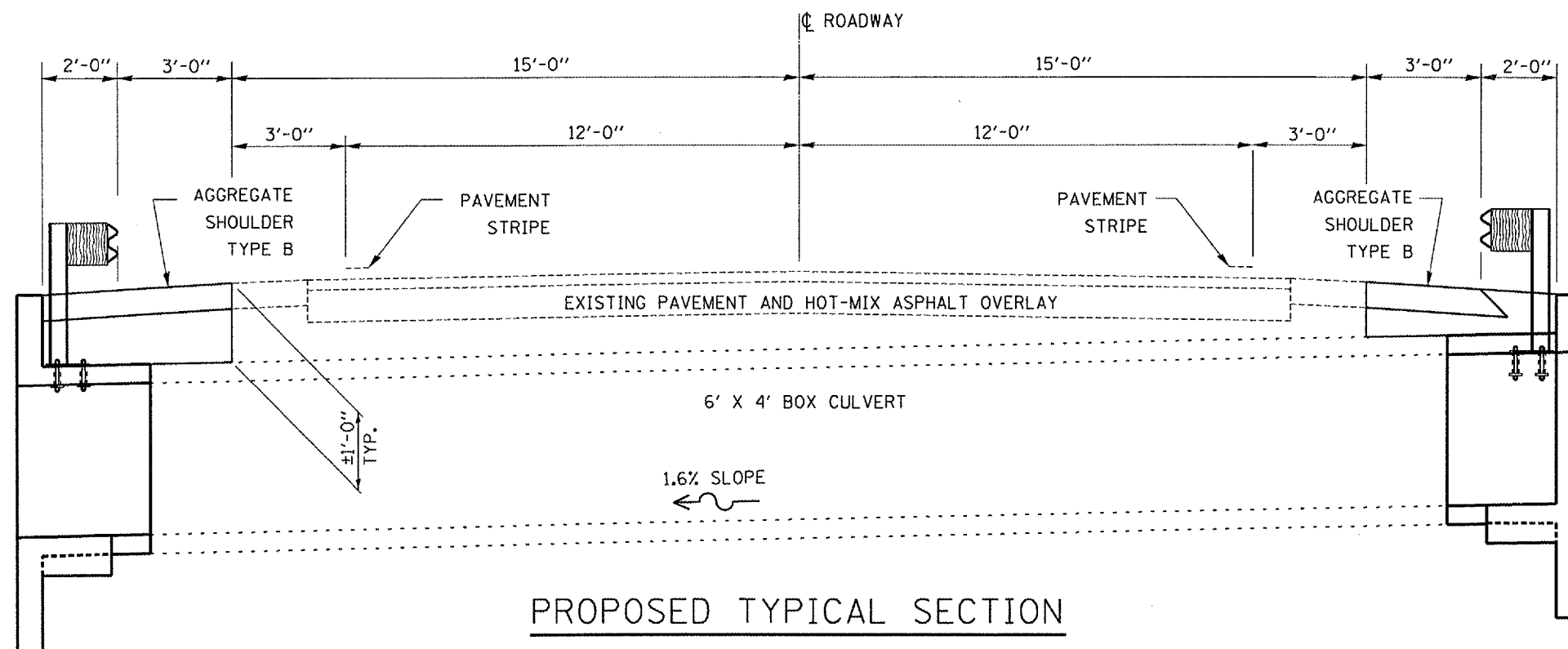
CONSTRUCTION CODE TYPE: **Y007**

CODE NO.	ITEM	UNIT	RURAL 100% STATE TOTAL QUANTITY
20400800	FURNISHED EXCAVATION	CU YD	50.2
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	50
48101200	AGGREGATE SHOULDERS, TYPE B	TON	10
50102400	CONCRETE REMOVAL	CU YD	18
50200100	STRUCTURE EXCAVATION	CU YD	50.2
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3190
54003000	CONCRETE BOX CULVERTS	CU YD	18
* 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	87
* 63000025	STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES	FOOT	24
63200310	GUARDRAIL REMOVAL	FOOT	124
67100100	MOBILIZATION	L SUM	1
70100100	TRAFFIC CONTROL AND PROTECTION, STANDARD 701316	EACH	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1
X0322121	SHEET WATERPROOFING MEMBRANE SYSTEM	SQ YD	61
X0323115	REFLECTOR MARKERS, TYPE A	EACH	2
X0323988	TEMPORARY SOIL RETENTION SYSTEM	SQ FT	704
X0321781	MECHANICAL SPLICE	EACH	48
Z0073400	TEMPORARY SUPPORT SYSTEM	EACH	2

*SPECIALTY ITEM

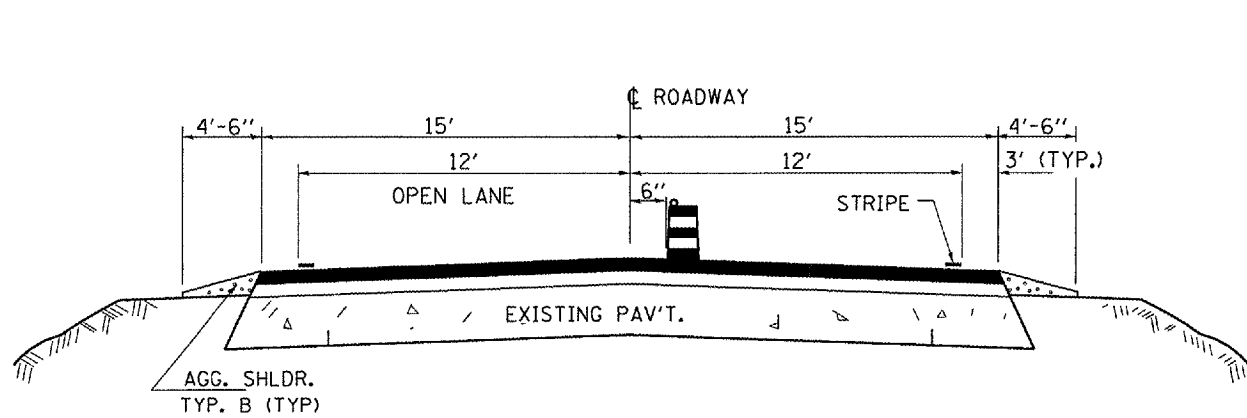


LOOKING SOUTH

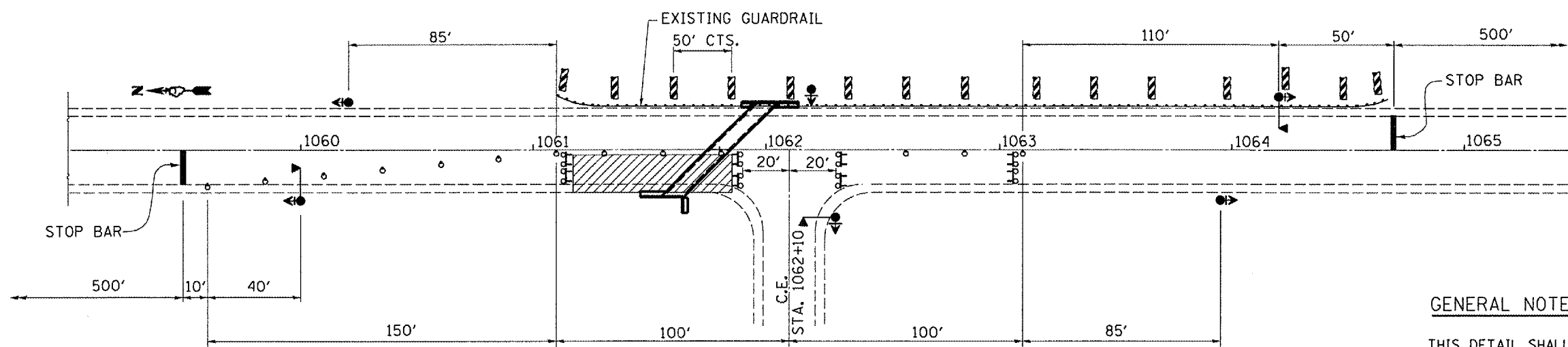
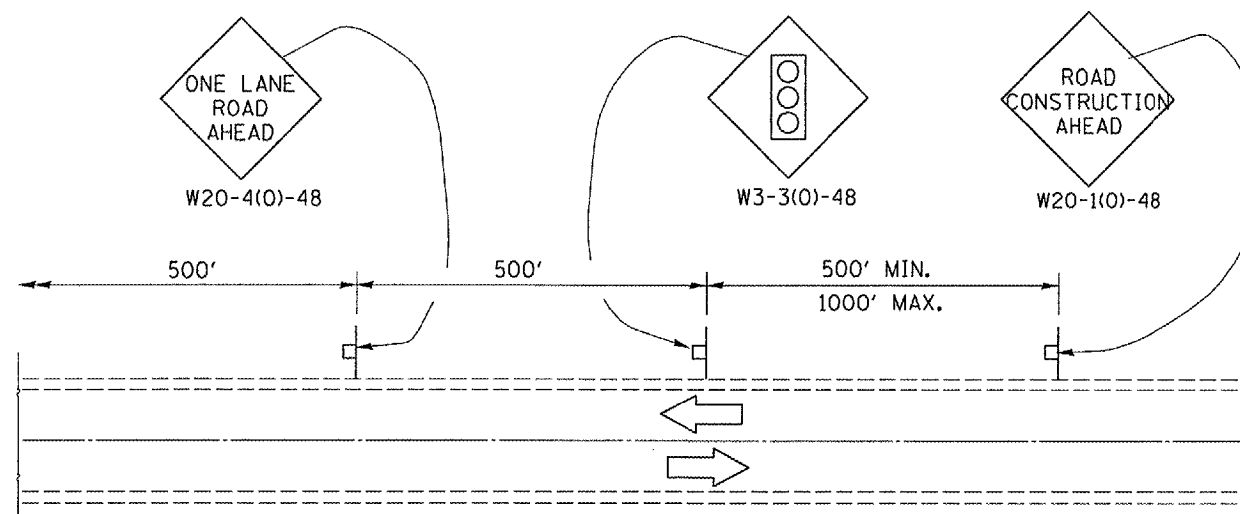


LOOKING SOUTH

FILE NAME =	USER NAME = woodshankr1	DESIGNED - RON WOODSHANK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = Dec 12, 2007 - 07:41:49 AM	DATE -	REVISED -	FED. ROAD DIST. NO. ILLINOIS							
				SCALE: _____ SHEET NO. 4 OF 6 SHEETS STA. 1061+00 TO STA. 1063+00						



**TYPICAL ROADWAY SECTION
LOOKING SOUTH**



PLAN

GENERAL NOTES

THIS DETAIL SHALL BE USED WHERE, AT ANY TIME, ANY VEHICLE, EQUIPMENT, WORKERS, OR THEIR ACTIVITIES WILL ENCROACH ON ONE LANE OF A 2L, 2W HIGHWAY OR BRIDGE. TRAFFIC SIGNALS SHALL BE REQUIRED. THIS DETAIL SHALL BE USED IN CONJUNCTION WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701316.

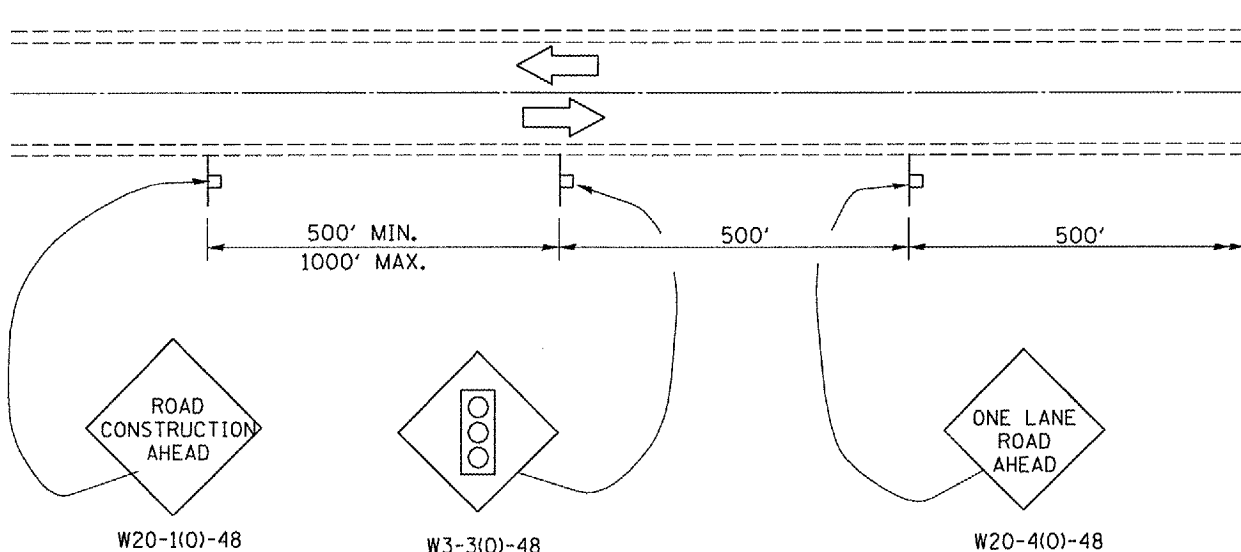
WHEN TRAFFIC SIGNALS ARE NOT IN OPERATION, FLAGGERS SHALL BE USED AND TRAFFIC CONTROL SHALL CONFORM TO TRAFFIC CONTROL AND PROTECTION STANDARDS 701201 OR 701206.

BIDIRECTIONAL LIGHTS SHALL BE USED AT NIGHT ALONG THE CENTERLINE WHERE THE WORK AREA IS SEPARATED FROM THE TRAVEL LANE USING DRUMS. MONO DIRECTIONAL LIGHTS SHALL BE USED AT NIGHT ON ALL OTHER DRUMS.

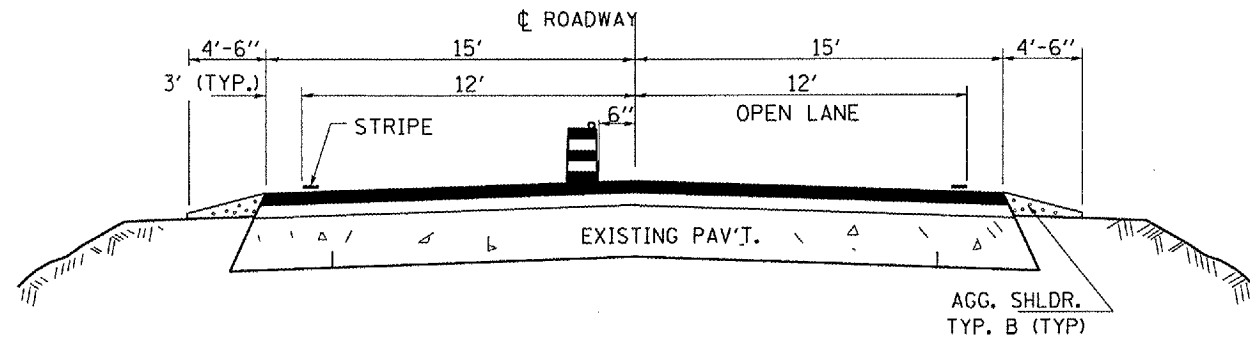
EXISTING OR TEMPORARY PAVEMENT MARKING SHALL BE ON BOTH SIDES OF THE OPEN LANE FROM STOP BAR TO STOP BAR.

SYMBOLS

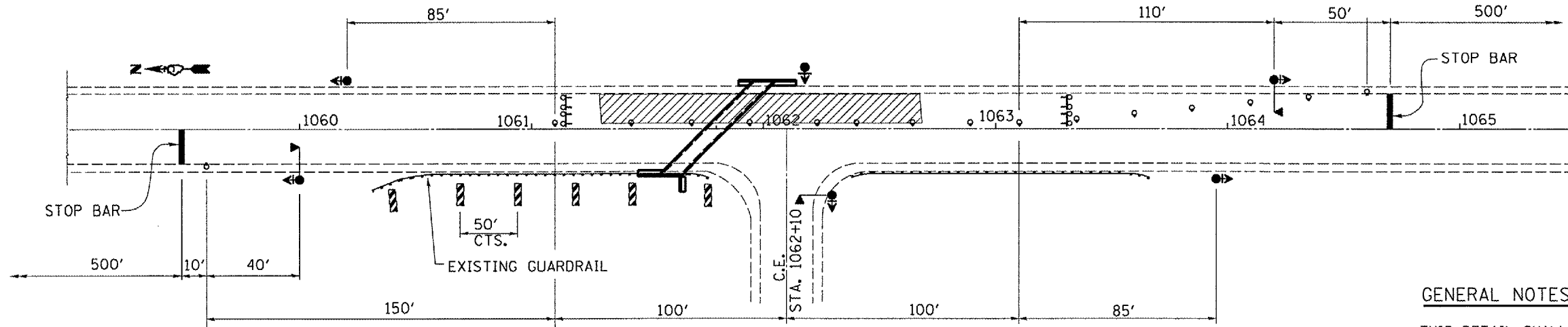
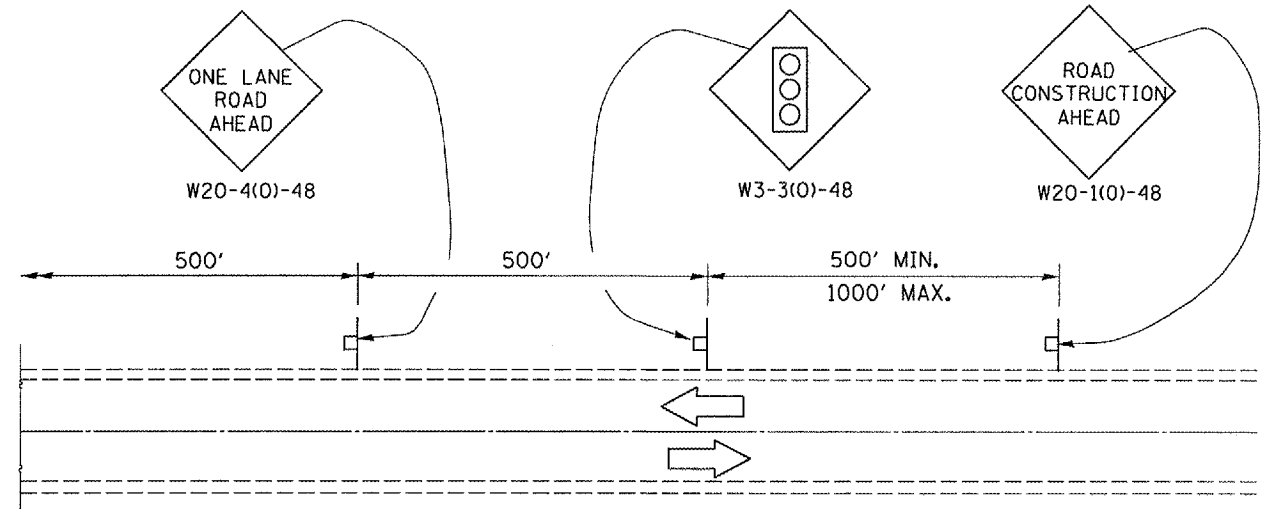
- Work area
- Sign
- Type III barricade with steady burning light
- Drum with steady burning light
- Traffic signal with backplate
- Double vertical panel
- Microwave Detector



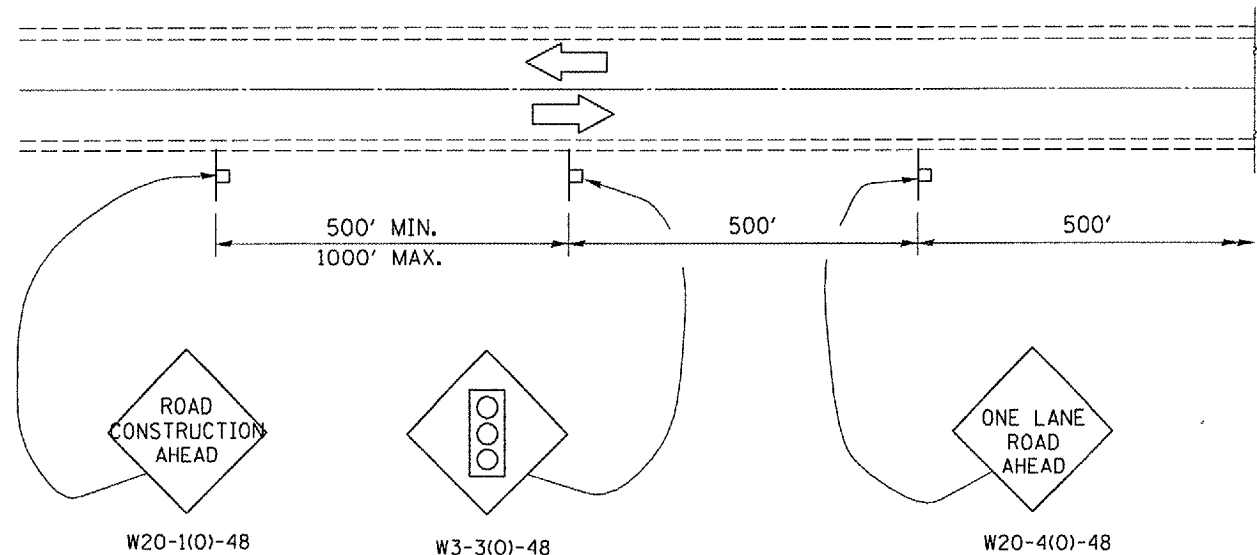
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PLOT SCALE = 1/8" = 1' / IN.	CHECKED -	REVISOR -	SCALE: _____			SHEET NO. 5 OF 6 SHEETS	STA. 1061+00 TO STA. 1063+00	FED. ROAD DIST. NO. -	ILLINOIS	CONTRACT NO. 66729			
PLOT DATE = Dec 12, 2007 - 8:41:57 AM	DATE -	REVISOR -											



**TYPICAL ROADWAY SECTION
LOOKING SOUTH**



PLAN



SYMBOLS

- Work area
- Sign
- Type III barricade with steady burning light
- Drum with steady burning light
- Traffic signal with backplate
- Double vertical panel
- Microwave Detector

GENERAL NOTES

THIS DETAIL SHALL BE USED WHERE, AT ANY TIME, ANY VEHICLE, EQUIPMENT, WORKERS, OR THEIR ACTIVITIES WILL ENCROACH ON ONE LANE OF A 2L, 2W HIGHWAY OR BRIDGE. TRAFFIC SIGNALS SHALL BE REQUIRED. THIS DETAIL SHALL BE USED IN CONJUNCTION WITH TRAFFIC CONTROL AND PROTECTION STANDARD 701316.

WHEN TRAFFIC SIGNALS ARE NOT IN OPERATION, FLAGGERS SHALL BE USED AND TRAFFIC CONTROL SHALL CONFORM TO TRAFFIC CONTROL AND PROTECTION STANDARDS 701201 OR 701206.

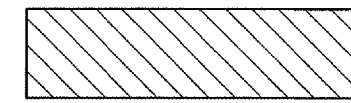
BIDIRECTIONAL LIGHTS SHALL BE USED AT NIGHT ALONG THE CENTERLINE WHERE THE WORK AREA IS SEPARATED FROM THE TRAVEL LANE USING DRUMS. MONO DIRECTIONAL LIGHTS SHALL BE USED AT NIGHT ON ALL OTHER DRUMS.

EXISTING OR TEMPORARY PAVEMENT MARKING SHALL BE ON BOTH SIDES OF THE OPEN LANE FROM STOP BAR TO STOP BAR.

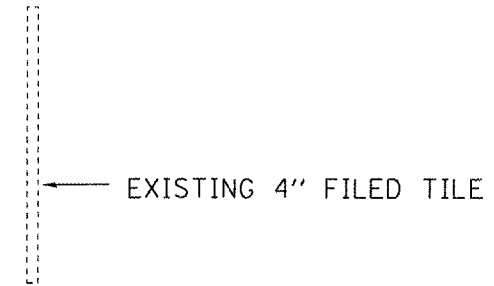
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PLOT SCALE = 1/8" = 100'	CHECKED - ---	REVISOR - ---	DATE - ---			SCALE: -----	SHEET NO. 6 OF 6 SHEETS	STA. 1061+00 TO STA. 1063+00	FED. ROAD DIST. NO. - [ILLINOIS]			
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LEGEND

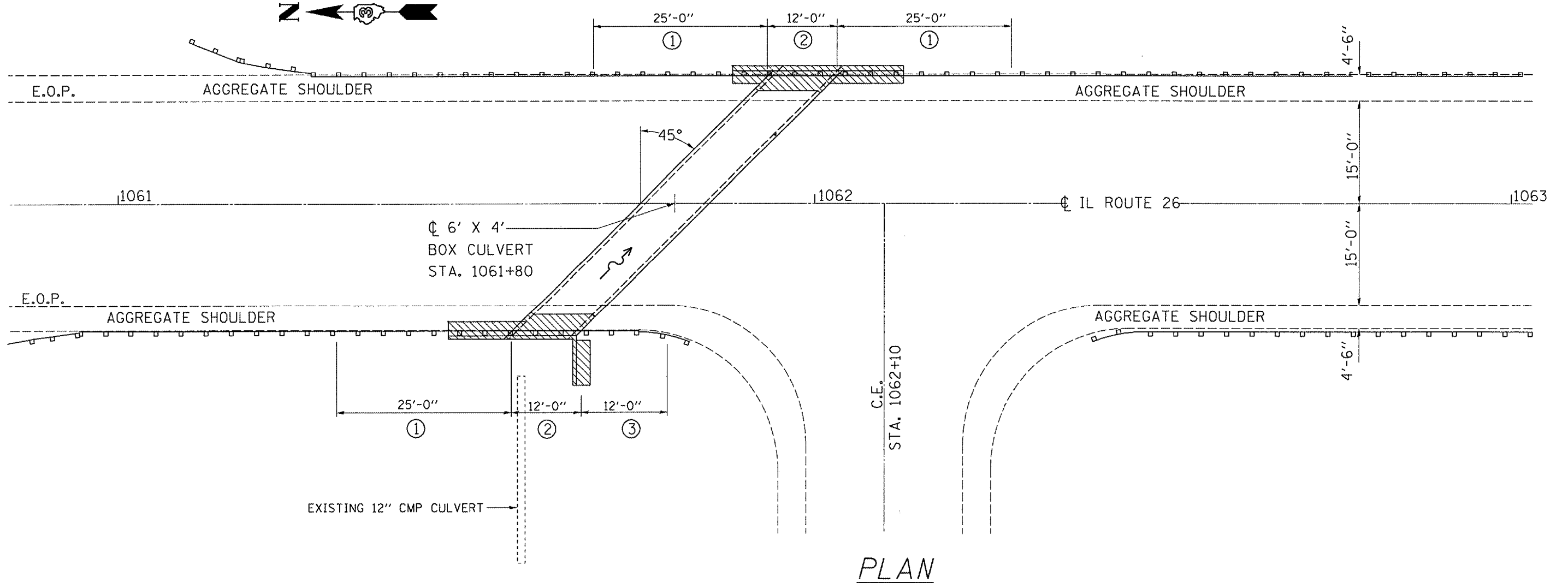
- ① REMOVE AND REPLACE EXISTING STEEL PLATE BEAM GUARDRAIL
- ② REMOVE AND REPLACE EXISTING STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURE



CONCRETE REMOVAL &
CONCRETE BOX CULVERTS

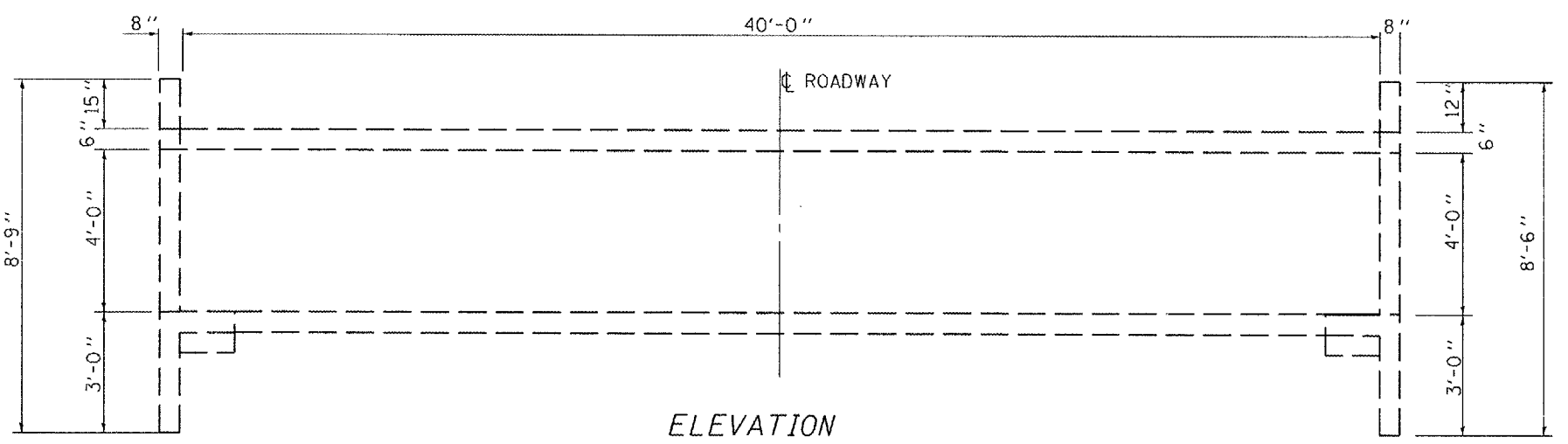
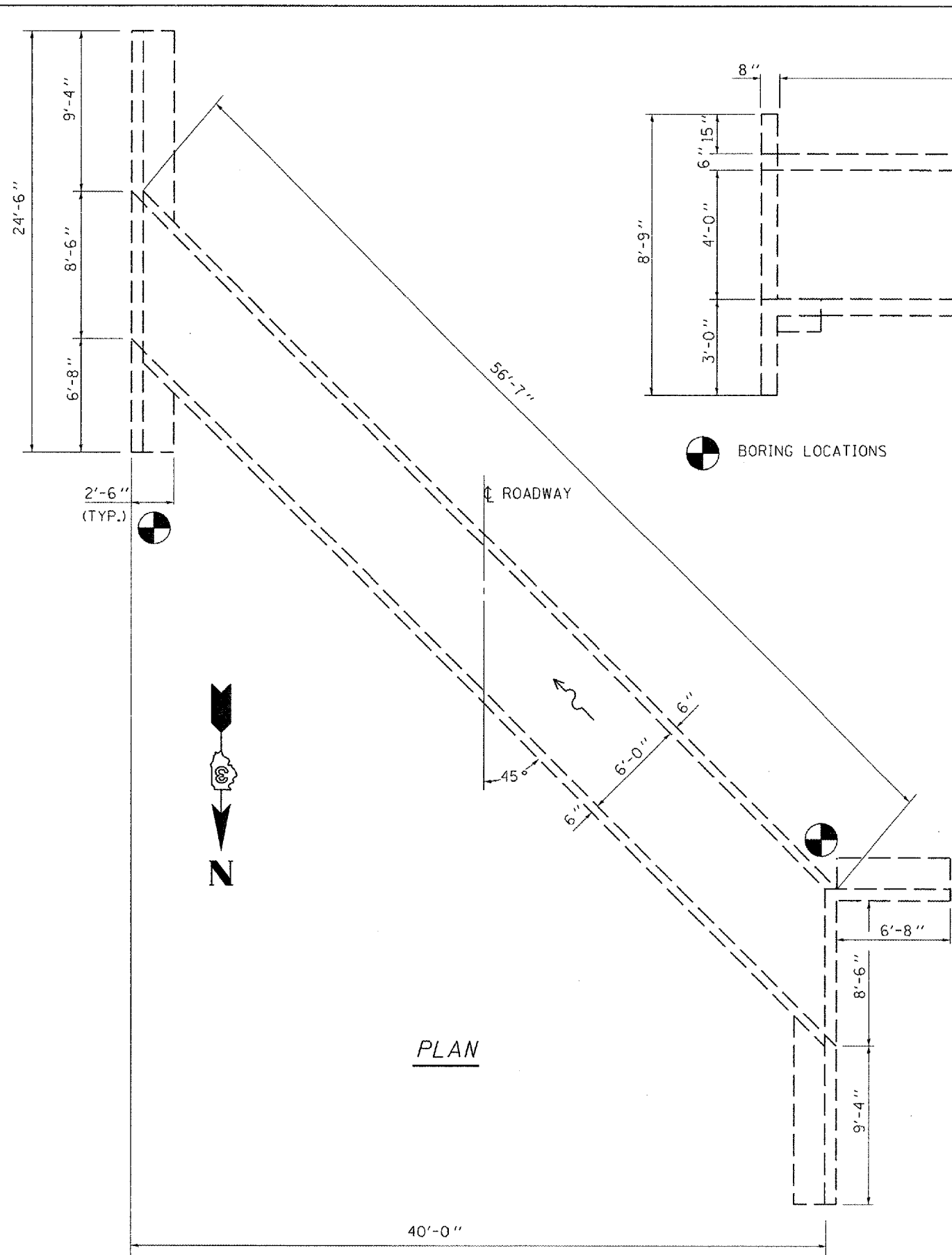


EXISTING 4" FILED TILE

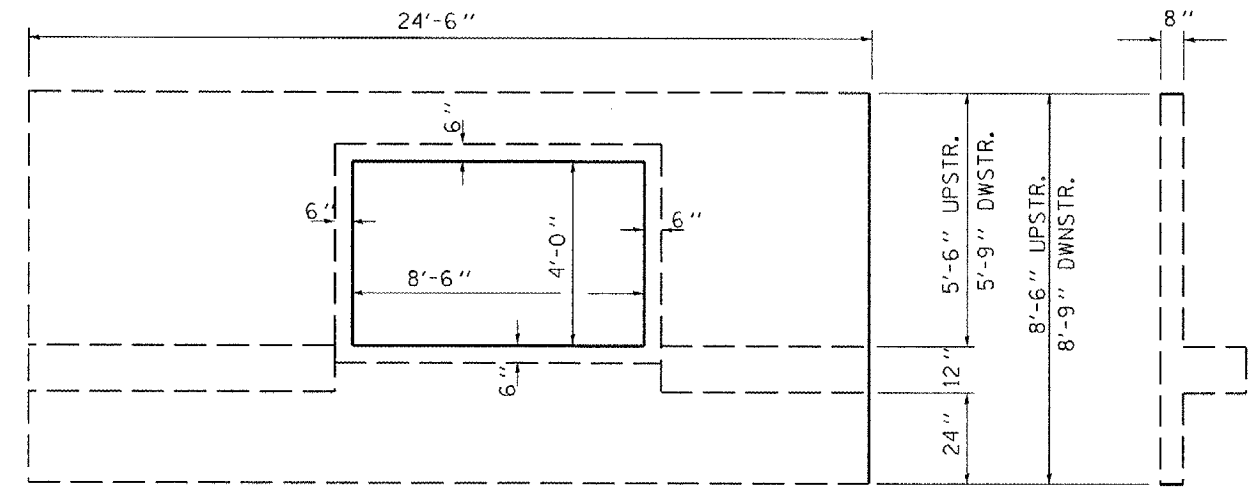


PLAN

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PLOT DATE = Dec 12, 2007 - 07:42:07 AM	DATE - -----	REVISED - ---	REVISED - ---							



ELEVATION
LOOKING SOUTH



END ELEVATION

TOTAL BILL OF MATERIALS

ITEM	UNIT	UPSTR.	DNSTR.	TOTAL
TEMPORARY SOIL RETENTION SYSTEM	SO. FT.	352	352	704
STRUCTURE EXCAVATION	CU. YD.	23.8	26.4	50.2
CONCRETE REMOVAL	CU. YD.	9	9	18
CONCRETE BOX CULVERTS	CU. YD.	9	9	18
REINFORCEMENT BARS EPOXY COATED	POUNDS	1650	1540	3190
SHEET WATERPROOFING MEMBRANE SYSTEM	SO. YD.	30	31	61
FURNISHED EXCAVATION	CU. YD.	23.8	26.4	50.2

FAP ROUTE 316 (IL 26)
SECTION (114)
BUREAU COUNTY
STA. 1061+80
S.N. 006-2515

FILE NAME *	USER NAME = #USER#	DESIGNED - RON WOODSHANK	REVISED - ---	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING PLAN AND ELEVATION	F.A.P. RTE. 316	SECTION (114)	COUNTY BUREAU	TOTAL SHEETS 14	SHEET NO. 8
#FILE#	DRAWN - RON WOODSHANK	REVISED - ---	SCALE:			SHEET NO. 1 OF 6 SHEETS	STA. 1061+00 TO STA. 1063+00	FED. ROAD DIST. NO. ILLINOIS	CONTRACT NO. 66729	
PLOT SCALE = #SCALE#	CHECKED - ---	REVISED - ---								
PLOT DATE = #DATE#	DATE - ---	REVISED - ---								



Illinois Department of Transportation

Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 4/13/07

ROUTE FAP 316 (IL 26) DESCRIPTION Rt 26 over Drainage Ditch LOGGED BY Larry Myers

SECTION LOCATION NE 14, SEC. 16, TWP. 18N, RNG. 09E

COUNTY Bureau DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. 006-2515 Station 1061+80 BORING NO. 2 NW Quad Station 1061+63 Offset 15.00ft Rt. Ground Surface Elev. 105.51 ft

Table with columns for Depth (ft), Diameter (in), Blow Count (blows/ft), and Soil Description. Includes groundwater elevation data and blow count logs.

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, from 137 (Rev. 8-99)



Illinois Department of Transportation

Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Date 4/13/07

ROUTE FAP 316 (IL 26) DESCRIPTION Rt 26 over Drainage Ditch LOGGED BY Larry Myers

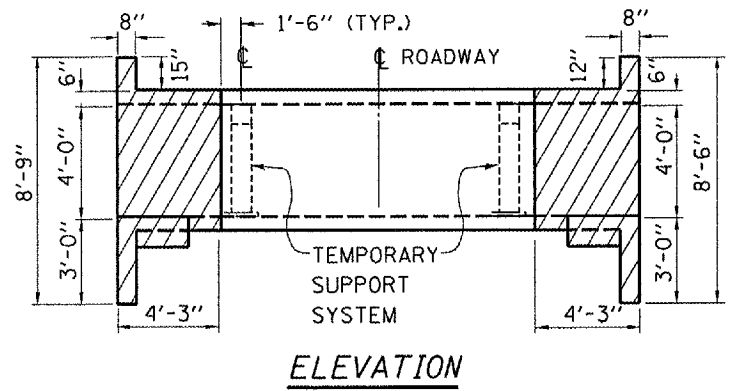
SECTION LOCATION NE 14, SEC. 16, TWP. 18N, RNG. 09E

COUNTY Bureau DRILLING METHOD Hollow Stem Auger HAMMER TYPE CME Automatic

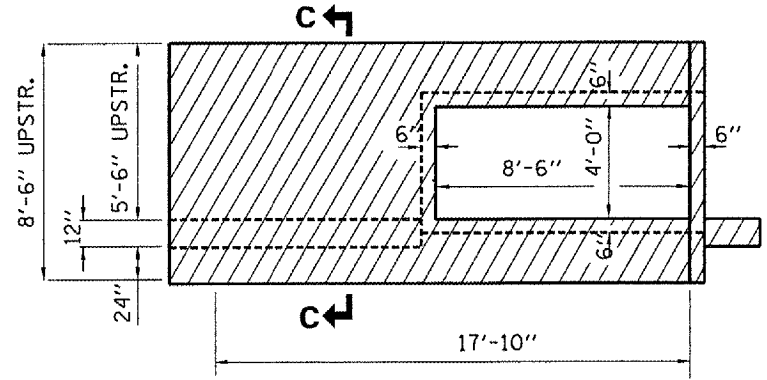
STRUCT. NO. 006-2515 Station 1061+80 BORING NO. 1 NE Quad Station 1061+66 Offset 17.00ft Lt. Ground Surface Elev. 105.20 ft

Table with columns for Depth (ft), Diameter (in), Blow Count (blows/ft), and Soil Description. Includes groundwater elevation data and blow count logs.

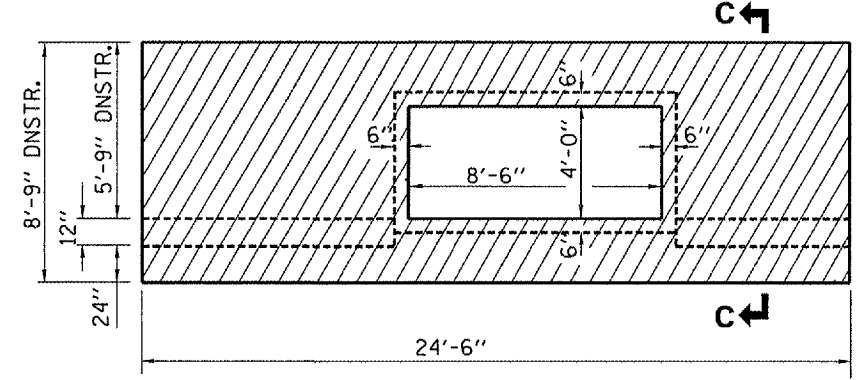
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



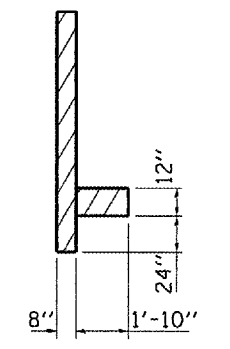
ELEVATION



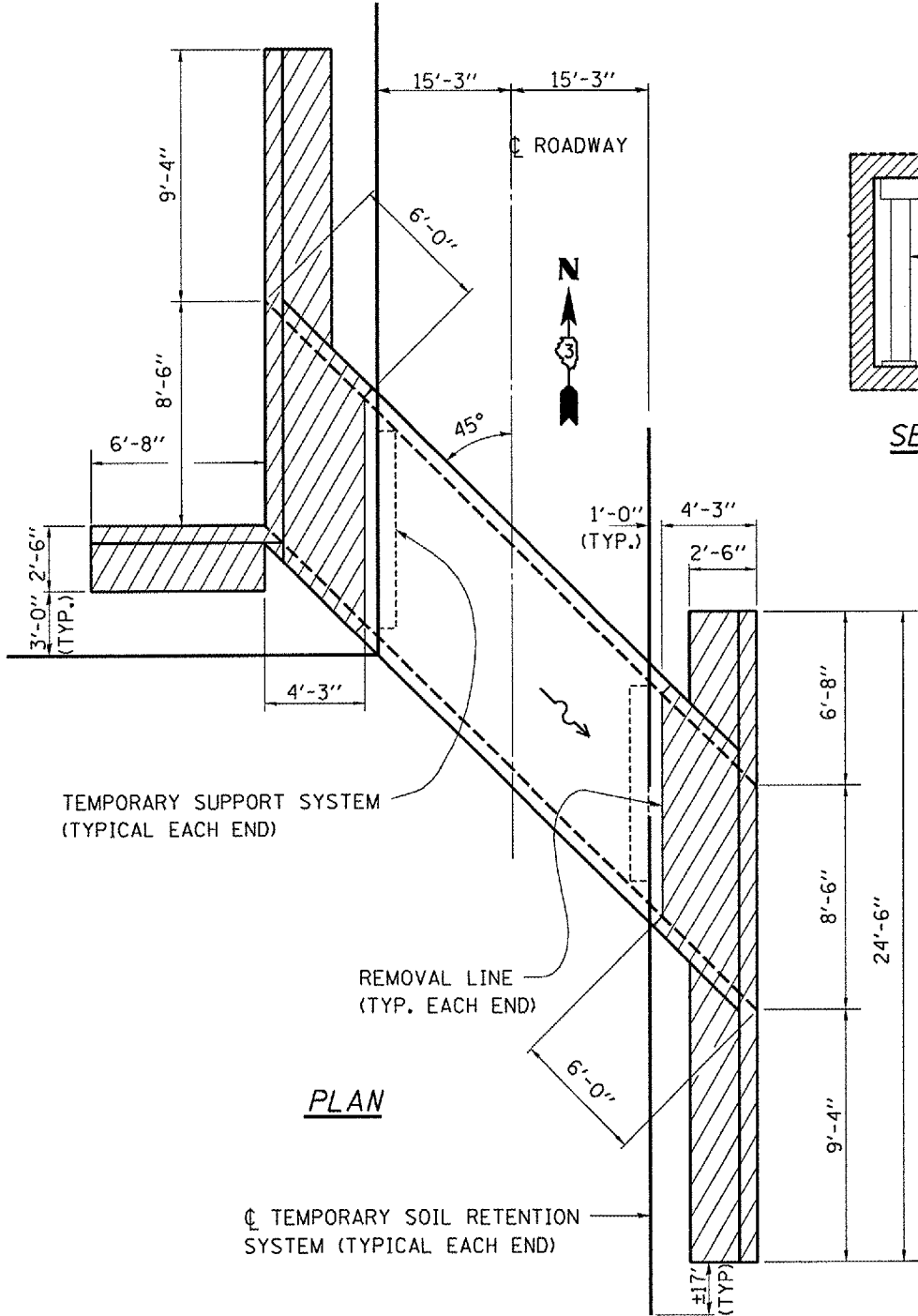
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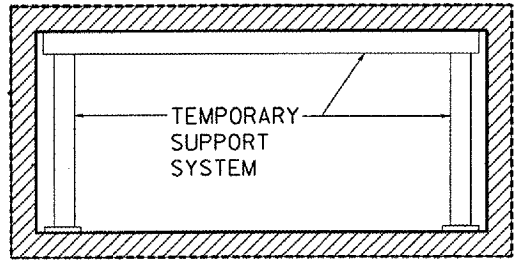
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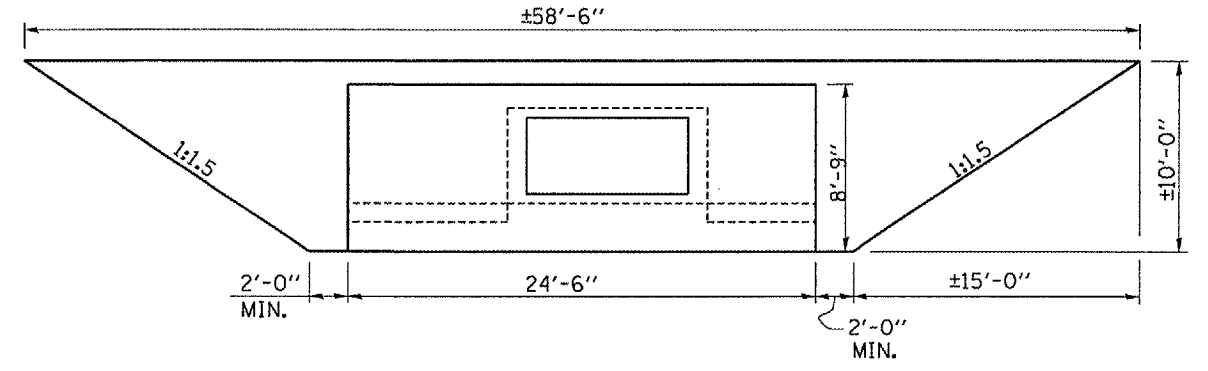
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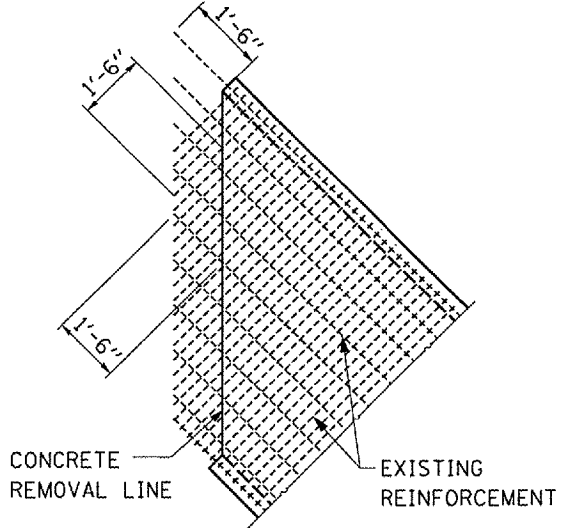
PLAN



SECTION THROUGH BARREL



TEMPORARY SOIL RETENTION SYSTEM



DETAIL AT REMOVAL LINE

TYPICAL ON ALL FOUR SIDES
EXISTING REINFORCEMENT EXTENDING INTO REMOVAL AREA, SHALL BE CUT AS SHOWN, CLEANED, STRAIGHTENED AND INCORPORATED INTO NEW CONSTRUCTION

NOTES

PLAN DIMENSIONS AND DETAILS HAVE BEEN TAKEN FROM ORIGINAL PLAN DETAILS WHICH HAVE BEEN INCLUDED ELSEWHERE IN THE PLANS. ORIGINAL PLAN DETAILS ARE "FOR INFORMATION ONLY" AND SHALL NOT BE USED FOR THE PROPOSED RECONSTRUCTION.

SAW CUTS MADE AT THE LIMITS OF THE CONCRETE BOX REMOVAL SHALL BE FULL THICKNESS OF THE TOP, BOTTOM AND WALLS OF THE EXISTING BOX.

THE CONTRACTOR SHALL EXERCISE CARE WHEN SAW CUTTING AND REMOVING THE CONCRETE BOX SO THAT DAMAGE TO THE CONCRETE THAT IS TO REMAIN IN PLACE WILL NOT OCCUR. IF DAMAGE OCCURS TO THE CONCRETE THAT IS TO REMAIN, DUE TO THE CONTRACTOR'S REMOVAL OPERATIONS, THE DAMAGED AREAS SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

BILL OF MATERIAL

CONCRETE REMOVAL	CU. YD.	18
TEMPORARY SUPPORT SYSTEM	EACH	2
TEMPORARY SOIL RETENTION SYSTEM	SQ FT	704

FAP ROUTE 316 (IL 26)
SECTION (1141)
BUREAU COUNTY
STA. 1061+80
S.N. 006-2515

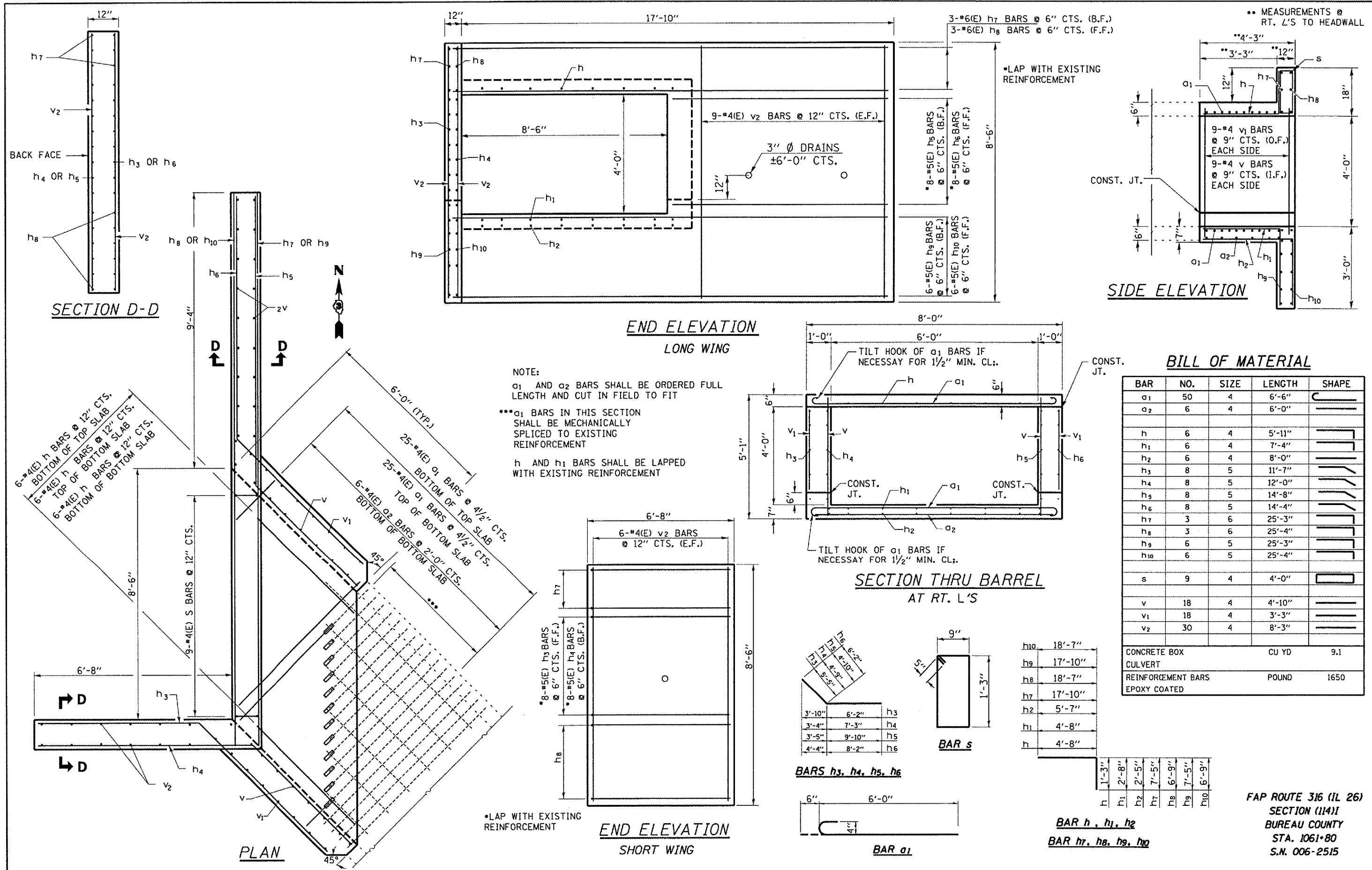
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	PLOT SCALE = 103.4829' / IN.	CHECKED -	REVISED -
	PLOT DATE = Dec 12, 2007 - 07:42:28 AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

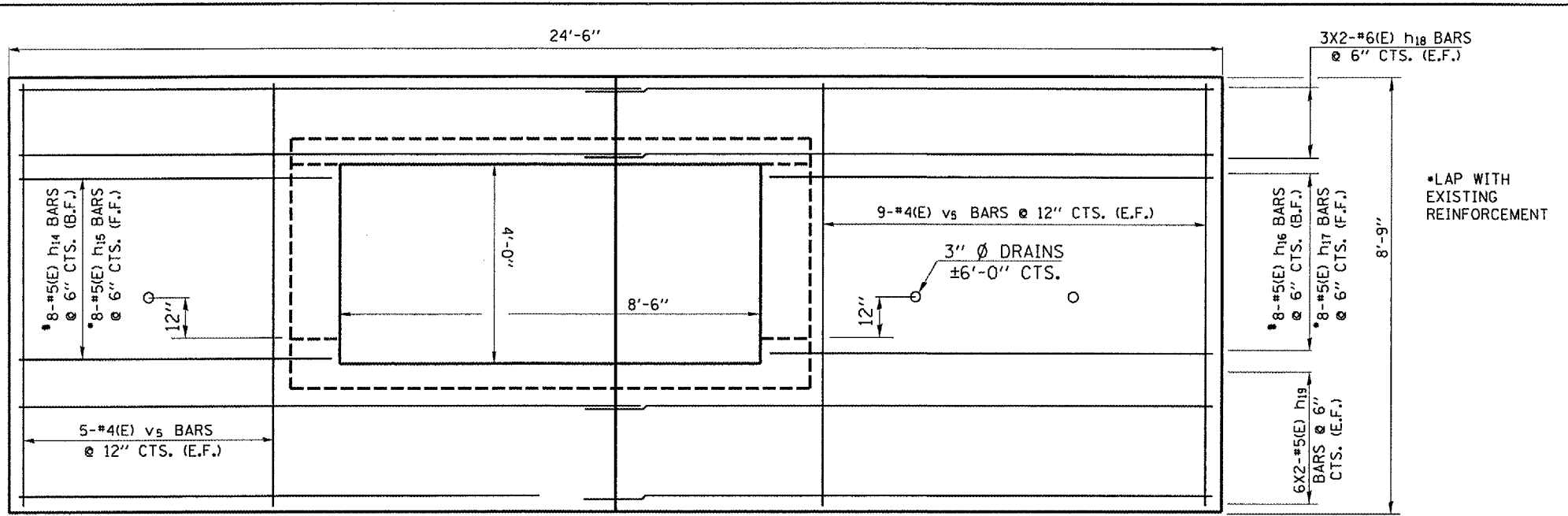
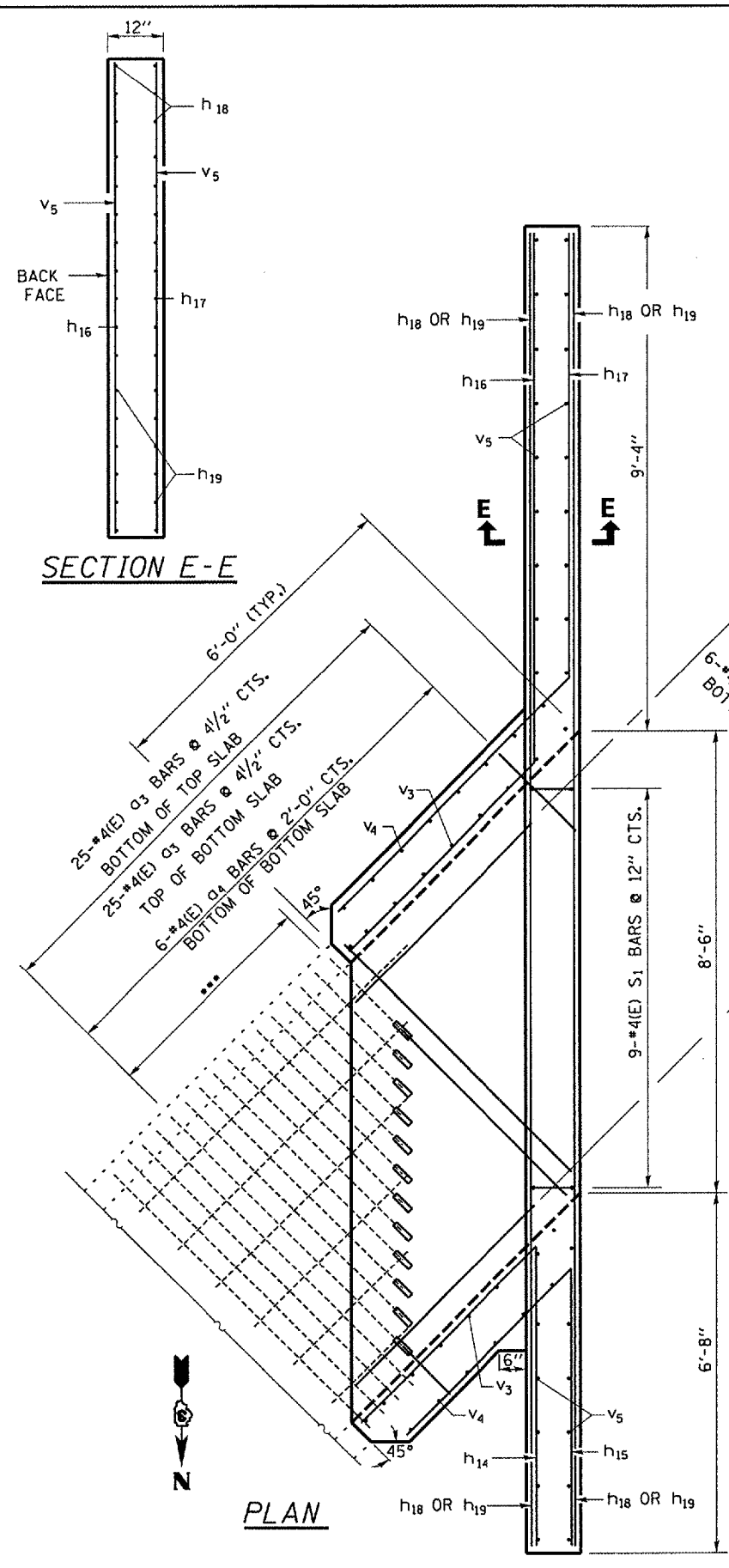
CONCRETE REMOVAL

SCALE: SHEET NO. 1 OF 6 SHEETS STA. 1061+00 TO STA. 1063+00

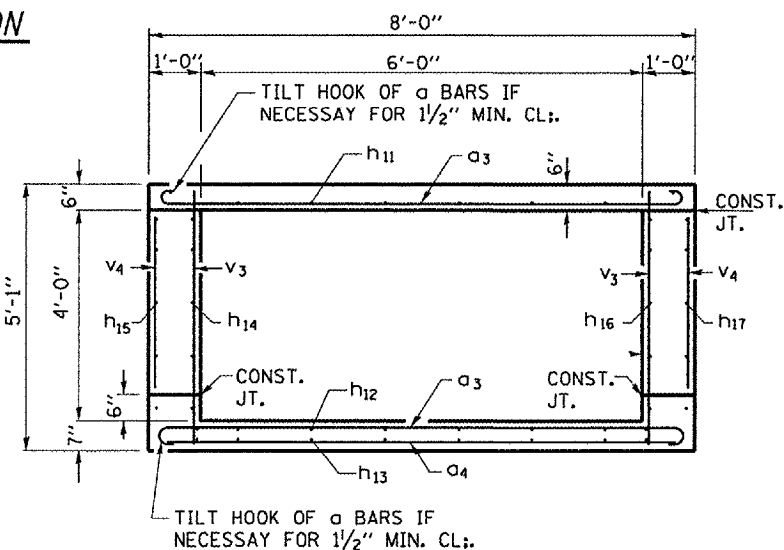
F.A.P. RTE. 316	SECTION (1141)	COUNTY BUREAU	TOTAL SHEETS 14	SHEET NO. 10
CONTRACT NO. 66729				FED. ROAD DIST. NO. ILLINOIS



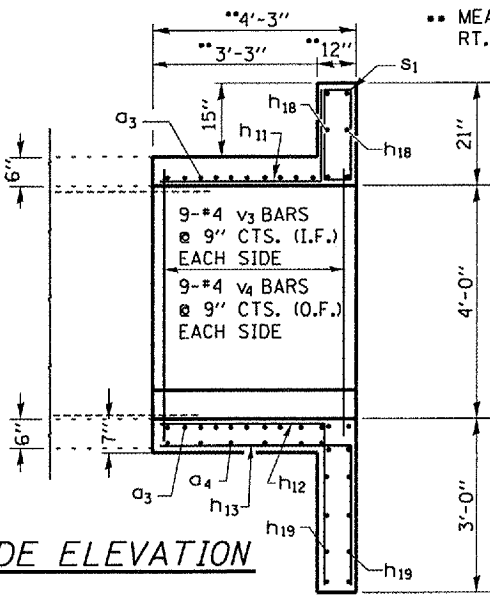
FAP ROUTE 316 (IL 26)
SECTION (114)I
BUREAU COUNTY
STA. 1061+80
S.N. 006-2515



END ELEVATION
LONG WING



SECTION THRU BARREL
AT RT. L'S



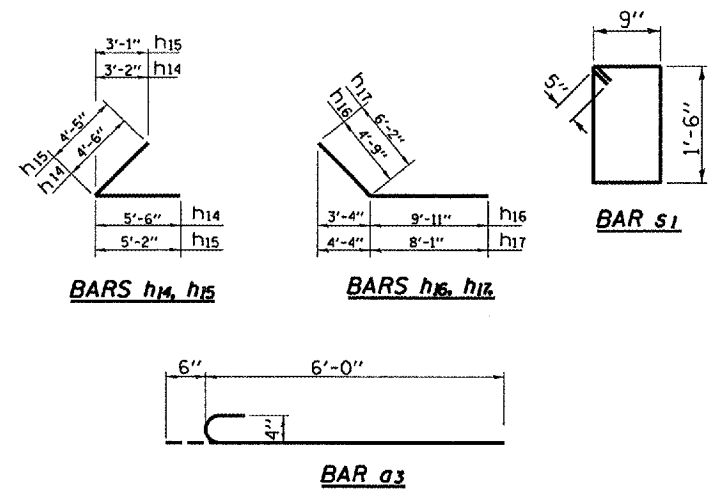
SIDE ELEVATION

NOTE:
h11 AND h12 BARS SHALL BE LAPPED WITH EXISTING REINFORCEMENT

alpha3 AND alpha2 BARS SHALL BE ORDERED FULL LENGTH AND CUT IN FIELD TO FIT

*** alpha3 BARS IN THIS SECTION SHALL BE MECHANICALLY SPLICED TO EXISTING REINFORCEMENT

MEASUREMENTS @ RT. L'S TO HEADWALL

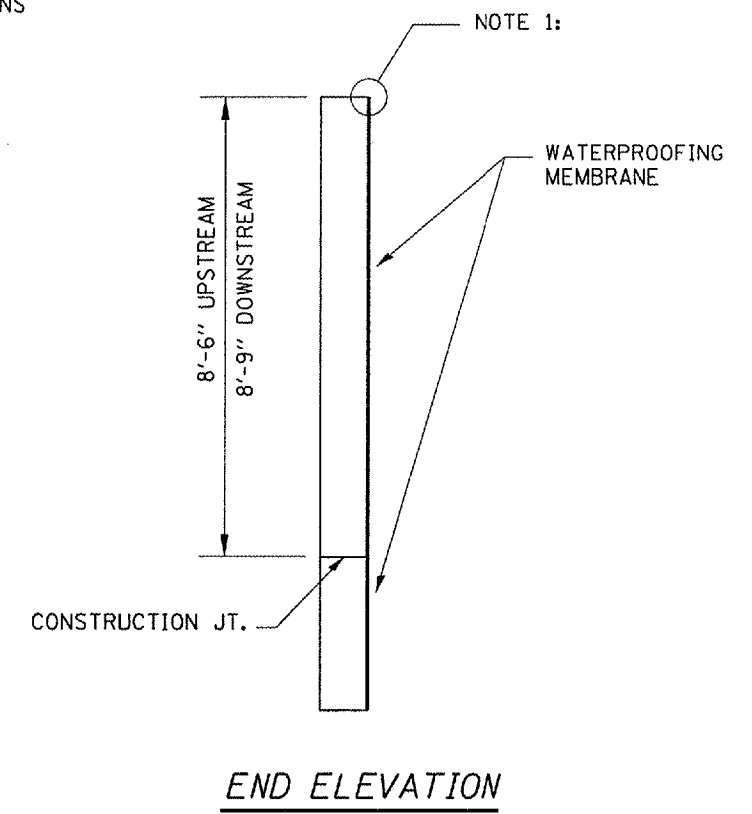


BILL OF MATERIAL

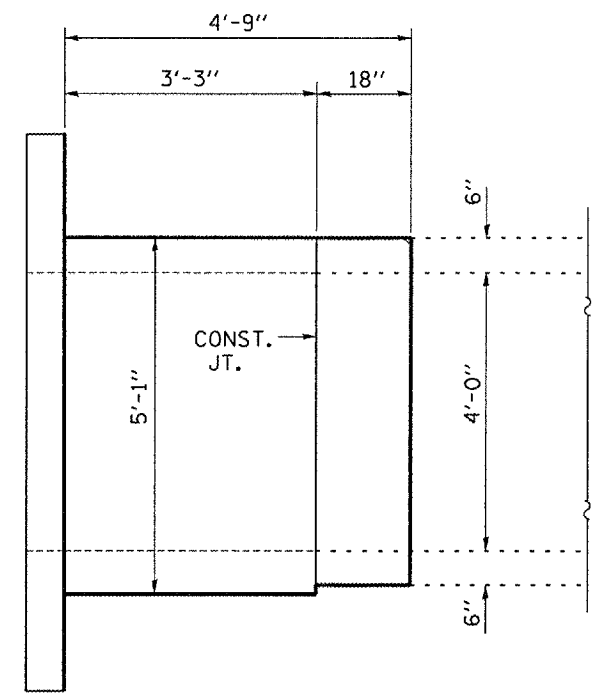
BAR	NO.	SIZE	LENGTH	SHAPE
alpha3	50	4	6'-6"	
alpha4	6	4	6'-0"	
h11	6	4	6'-2"	
h12	6	4	7'-4"	
h13	6	4	8'-2"	
h14	8	5	10'-0"	
h15	8	5	9'-7"	
h16	8	5	14'-8"	
h17	8	5	14'-3"	
h18	12	6	13'-4"	
h19	24	6	13'-4"	
s1	9	4	4'-0"	
v3	18	4	4'-6"	
v4	18	4	3'-9"	
v5	28	4	8'-6"	
CONCRETE BOX CULVERT			CU YD	8.9
REINFORCEMENT BARS EPOXY COATED			POUND	1540

FAP ROUTE 316 (IL 26)
SECTION (114)I
BUREAU COUNTY
STA. 1061+80
S.N. 006-2515

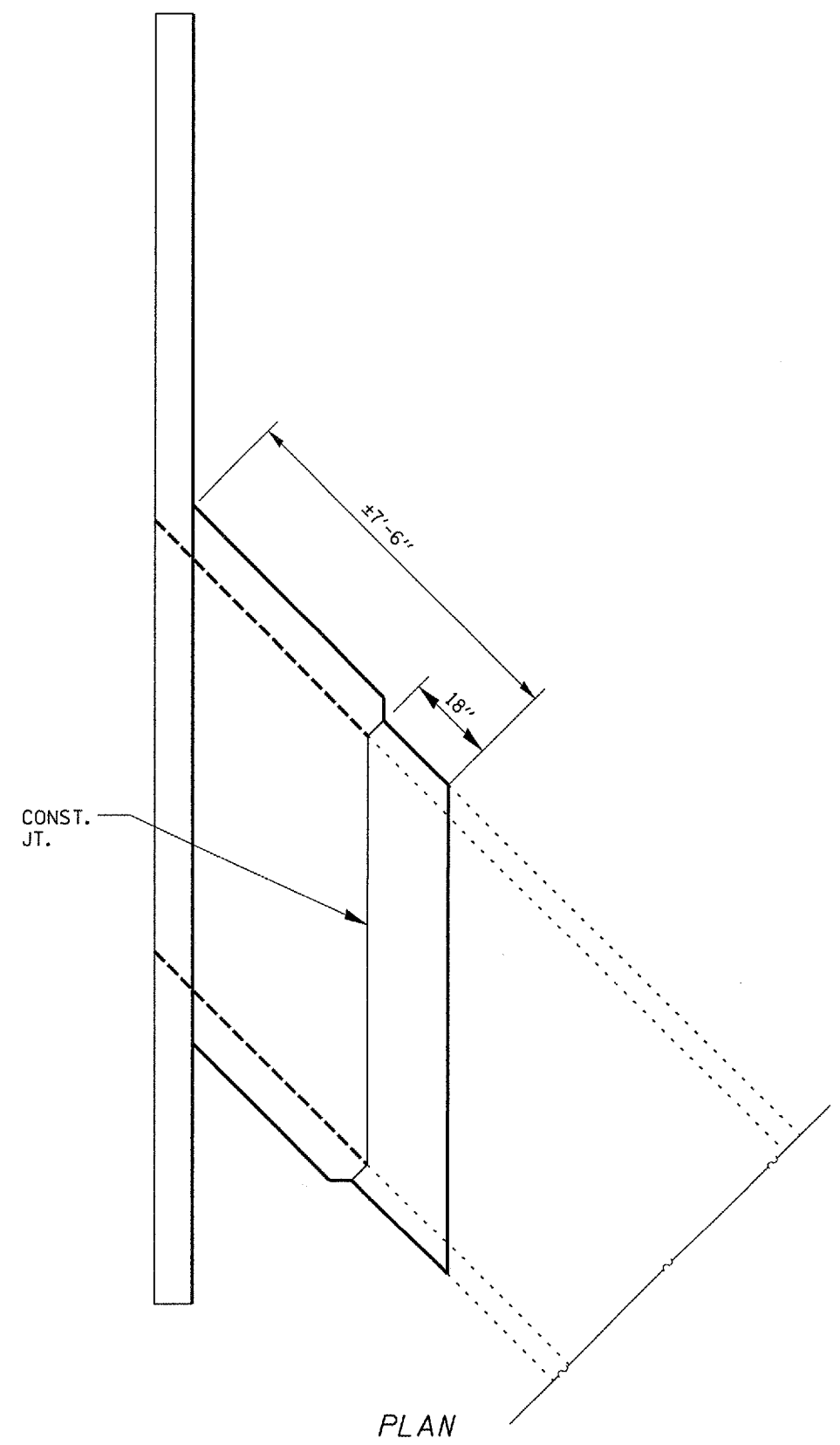
NOTE 1: SEAL JOINT PER MANUFACTURER'S RECOMENDATIONS



END ELEVATION



SIDE ELEVATION



PLAN

DOWNSTREAM END SHOWN
UPSTREAM END SIMILIAR

**BILL OF MATERIAL
UPSTREAM**

SHEET WATERPROOFING	SQ. YD.	32
MEMBRANE SYSTEM		

**BILL OF MATERIAL
DOWNSTREAM**

SHEET WATERPROOFING	SQ. YD.	35
MEMBRANE SYSTEM		

NOTES:

THE EXPOSED SURFACES AS INDICATED SHALL BE PROTECTED BY THE WATERPROOFING MEMBRANE AS PER THE MANUFACTURER'S RECOMENDATIONS.

A MANUFACTURER'S REPRESENTATIVE SHALL BE ON SITE DURING THE INSTALLATION OF THE WATERPROOFING MEMBRANE TO PROVIDE TECHNICAL SUPPORT WHEN REQUIRED. ALL COST INCURRED DUE TO THE ON-SITE REPRESENTATIVE SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT COST OF THE WATERPROOFING MEMBRANE WORK.

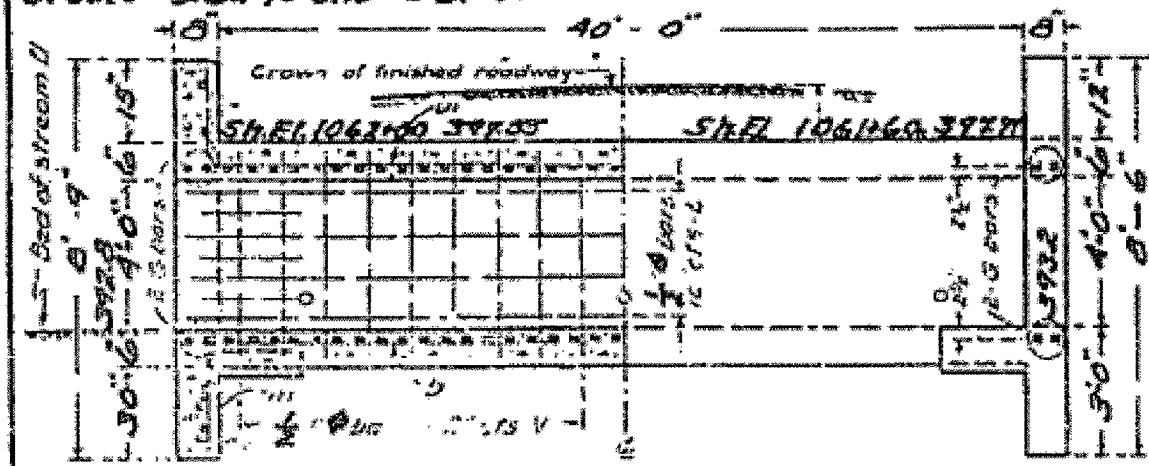
THE CONTRACTOR SHALL INSTALL THE WATERPROOFING MEMBRANE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, PLAN DETAILS AND AS DIRECTED BY THE ENGINEER.

FAP ROUTE 316 (IL 26)
SECTION (114)I
BUREAU COUNTY
STA. 1061+80
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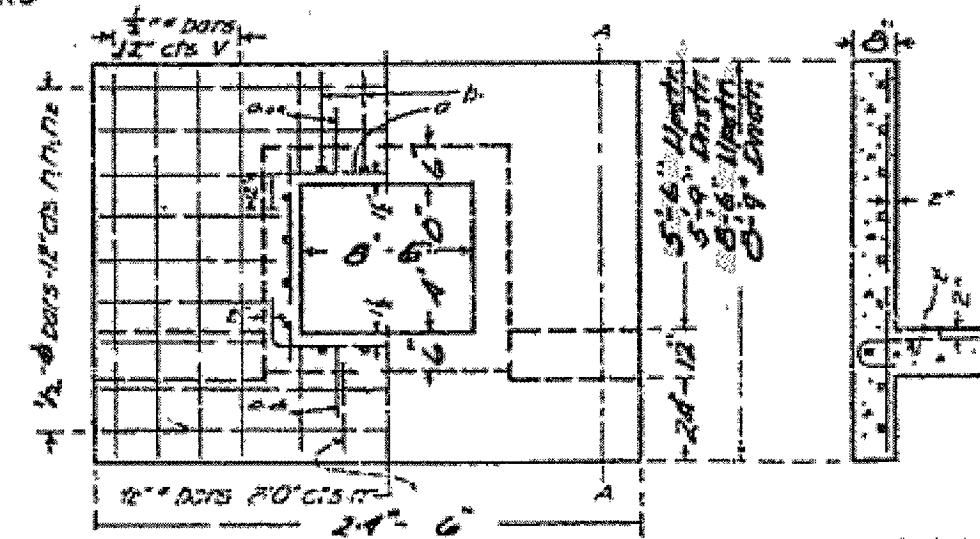
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os\projects\main\88\lan314\details.dgn		DRAWN - RON WOODSHANK	REVISED -			316	(114)I	BUREAU	14	13	
		CHECKED -	REVISED -			CONTRACT NO. 66729					
		DATE -	REVISED -			FED. ROAD DIST. NO. - ILLINOIS					
		PLLOT SCALE = 1/8" = 1'-0"			SCALE: _____	SHEET NO. 1 OF 6 SHEETS	STA. 1061+00 TO STA. 1063+00				
		PLLOT DATE = Dec 12, 2007 - 07:42:58 AM									

PI. 1060+50 E1.39671
 7-230 E-2.64
 Grades -3.62% and +0.61%

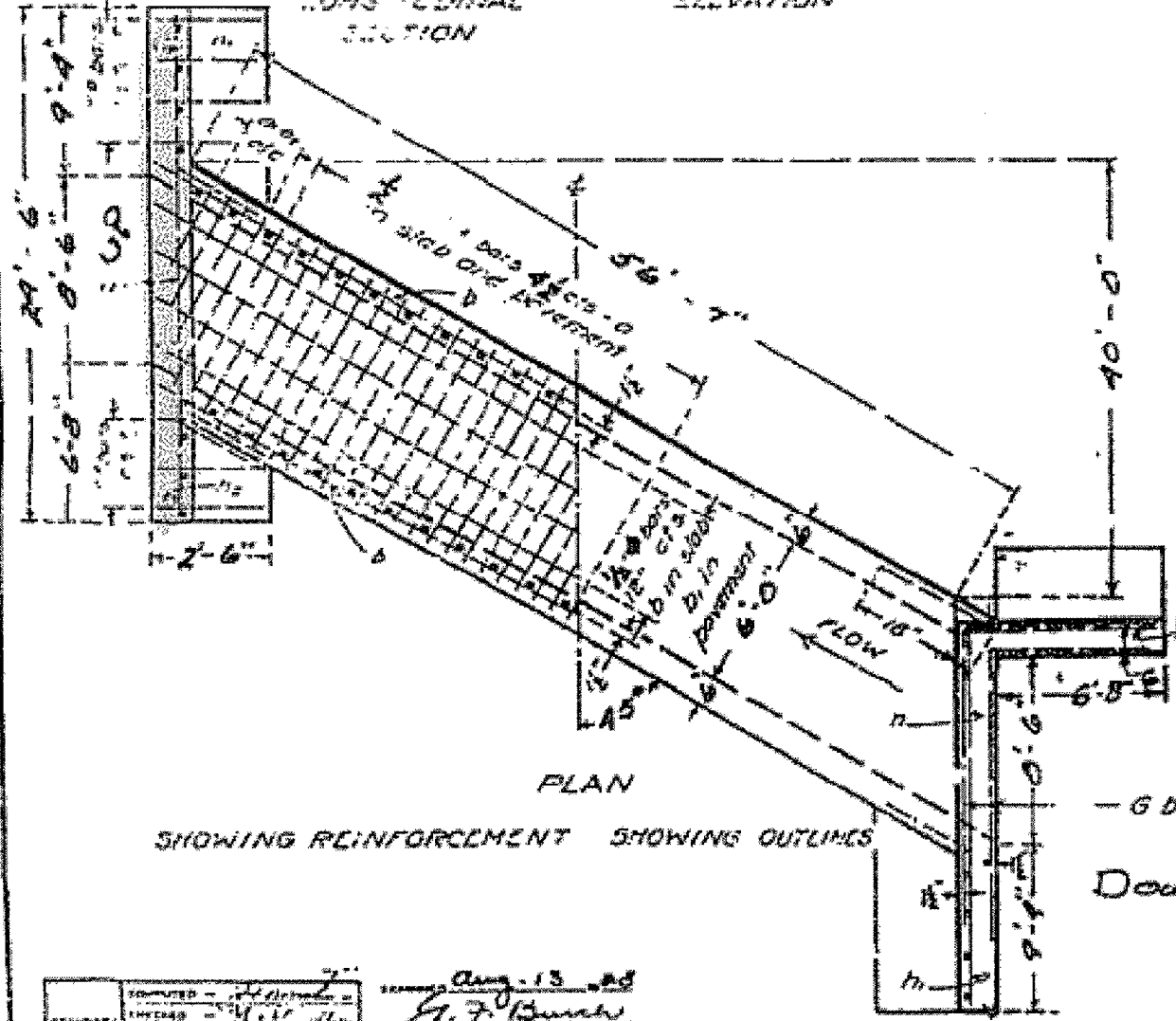
STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS
 DIVISION OF HIGHWAYS



LONGITUDINAL SECTION ELEVATION



END ELEVATION SECTION A-A SHOWING REINFORCEMENT SHOWING OUTLINES



PLAN SHOWING REINFORCEMENT SHOWING OUTLINES

BILL OF MATERIAL

Bars	No.	Size	Length
V	114	3/8"	4'-9"
V	15	3/8"	8'-0"
V	15	3/8"	8'-6"
n	6	3/8"	24'-0"
m	10	3/8"	8'-0"
m	10	3/8"	10'-6"
o	274	3/8"	8'-6"
o	12	3/8"	8'-0"
o	12	3/8"	7'-0"
o	20	3/8"	5'-0"
o	39	3/8"	20'-6"
o	21	3/8"	21'-0"
r	30	3/8"	3'-0"
qa	12	3/8"	3'-6"
m	4	3/8"	5'-0"
g	8	1"	17'-0"

Note: Use m bars in down stream headwall only
 Class A concrete to be used throughout
 Proportions 1:2 1/2:4
 Bend o, a, etc. bars at least 6" into headwalls

Concrete - Cu 125 34.1
 Reinforcing Steel - lbs. A330

S.N. 006-2515
 IL 26 (CHIC)
 Sta. 1061+80
 Rte. 89 Sec. 114
 Bureau County

Aug. 13 2008
 G. F. Bunch
 Designer

THIS SHEET FOR INFORMATION "ONLY"

FAP ROUTE 316 (IL 26)
 SECTION (114)
 BUREAU COUNTY
 STA. 1061+80
 S.N. 006-2515

FILE NAME = c:\projects\main08\cm314\detailed.dgn	USER NAME = woodshankr	DESIGNED - RON WOODSHANK	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING BOX CULVERT PLANS	SCALE: SHEET NO. 1 OF 6 SHEETS STA. 1061+00 TO STA. 1063+00	F.A.P. RTE. 316	SECTION (114)	COUNTY BUREAU	TOTAL SHEETS 14	SHEET NO. 14
PLLOT SCALE = 1/8" = 1'-0"	CHECKED -	REVISED -	CONTRACT NO. 66729								
PLLOT DATE = Dec 12, 2007 - 07:42:57 AM	DATE -	REVISED -	FED. ROAD DIST. NO. - ILLINOIS								