

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET & SUMMARY OF QUANTITIES
2	SEC. 08-00107-00-BR = PLAN & PROFILE, TYPICAL SECTIONS & GENERAL NOTES
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5	SEC. 08-00109-00-BR = PLAN & PROFILE, TYPICAL SECTIONS & GENERAL NOTES
6	SEC. 08-00109-00-BR = ROADWAY CROSS SECTIONS
7	SEC. 08-00109-00-BR = CAST-IN-PLACE END SECTION

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED IN THE PROPOSAL:

000001-05	STANDARD SYMBOLS, ABBREVIATIONS & PATTERNS
280001-04	TEMPORARY EROSION CONTROL SYSTEMS
701901-01	TRAFFIC CONTROL DEVICES
B.L.R. 21-8	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
B.L.R. 22-6	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS (TWO-LANE TWO-WAY RURAL TRAFFIC) (ROAD CLOSED TO THRU TRAFFIC)

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	QUANTITY
20800150	TRENCH BACKFILL	CU YD	300.00
28000300	TEMPORARY DITCH CHECKS	EACH	8.00
28001000	AGGREGATE (EROSION CONTROL)	TON	16.00
28100807	STONE DUMPED RIPRAP, CLASS A4	TON	46.00
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	240.00
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	2.00
50800105	REINFORCEMENT BARS	POUND	2680.00
54003000	CONCRETE BOX CULVERTS	CU YD	35.60
54010905	PRECAST CONCRETE BOX CULVERT 9'X5'	FOOT	30.00
54011206	PRECAST CONCRETE BOX CULVERT 12'X6'	FOOT	36.00
*67100100	MOBILIZATION	L SUM	1.00

DESIGN DESIGNATION:
DESIGN SPEED: 40 MPH
HIGHWAY CLASS - MINOR COLLECTOR
CURRENT A.D.T. = VARIES
CONTRACT NO. 99344



STATE OF ILLINOIS

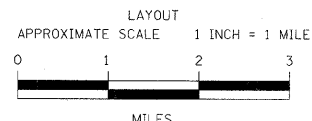
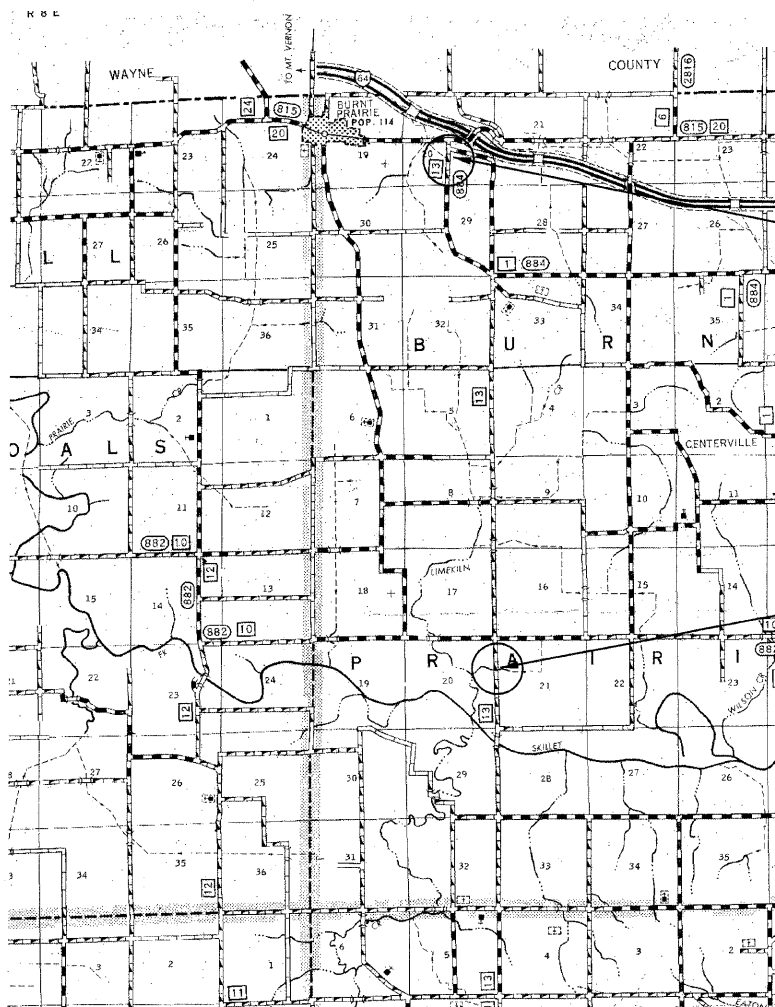
DEPARTMENT OF TRANSPORTATION

**PLANS FOR PROPOSED
FEDERAL AID - PROJECT SEC FUNDING
SURFACE TRANSPORTATION PRIORITY (STP)**

C.H. 13 WHITE COUNTY SECTION 08-00107-00-BR

JOB NO. C-99-516-09 CONTRACT # 99344

HD-0193(044)



GROSS LENGTH	335.00 FT	0.063 MILES
OMISSIONS	0.00 FT	0.000 MILES
NET LENGTH	335.00 FT	0.063 MILES

SECTION 08-00107-00-BR
BEGINS STATION 2+50

STATION 2+00
A 36' LONG 12'X6' PRECAST
CONCRETE BOX CULVERT

SECTION 08-00107-00-BR
ENDS STATION 1+15

SECTION 08-00109-00-BR
BEGINS STATION 2+20

STATION 2+00
A 30' LONG 9'X5' PRECAST
CONCRETE BOX CULVERT

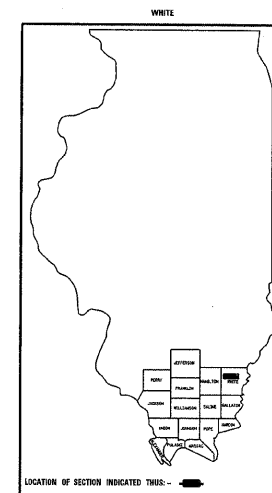
SECTION 08-00109-00-BR
ENDS STATION 0+20

PLAN	1" = 50'	
PROFILE	1" = 50'	
PROFILE VERT.	1" = 5'	
CROSS SECTION	1" = 5'	

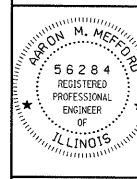
CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
13	08-00107-00-BR	WHITE	7	1

FED. ROAD DIST. NO. 9 ILLINOIS
FED. AID PROJECT
JOB # C-99-516-09 CONTRACT # 99344
LEC JOB # H031019MH CULVERTS

323 W. 3RD ST.
P.O. BOX 160
MT. CARMEL, IL
62863
PHONE:
(618)-262-8651
FAX:
(618)-263-3327



PROFESSIONAL
DESIGN FIRM
LAND SURVEY &
PROFESSIONAL
ENGINEERING
CORPORATION
184-00887
(62-032435)(35-002769)



AARON M. MEFFORD
NAME
Aaron M. Mefford
SIGNATURE
11-14-08
DATE
11-30-09
EXPIRES

COUNTY HIGHWAY 13
CULVERTS
WHITE COUNTY, ILLINOIS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED 11/7/08
Brian La...
COUNTY ENGINEER

PASSED 11/18/08
Dennis W. Hillman
ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW: 12/4/08
Mary C. Lamie
MARY C. LAMIE, P.E.
DEPUTY DIRECTOR OF HIGHWAY
REGION FIVE ENGINEER

SHEET TITLE:
TITLE SHEET

SCALE: VARIES
BY: AMM
DATE: 10/06
REV:

1 OF 7
SHEETS
SHEET NO.
1

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
13	08-00107-00-BR	WHITE	7	2
JOB # C-09-516-09		CONTRACT # 99344		
FED. ROAD DIST. NO. 9 ILLINOIS		LEC JOB # H081019H		

323 W. 3RD ST.
P.O. BOX 160
MT. CARMEL, IL
62863
PHONE:
(618)-262-8651
FAX:
(618)-263-3327

405 W. STATE ST.
SUITE 1
PRINCETON, IN
47670
PHONE:
(812)-386-7611
FAX:
(812)-385-2812

GENERAL NOTES:

THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS AND "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2007.

THE WORK INVOLVED ON THIS SECTION CONSISTS OF THE REMOVAL OF THE EXISTING STRUCTURE, THE CONSTRUCTION OF A 12 FOOT BY 6 FOOT PRECAST BOX CULVERT, EARTH APPROACHES, AGGREGATE SURFACE COURSE AND OTHER MISCELLANEOUS ITEMS NECESSARY TO COMPLETE THIS SECTION.

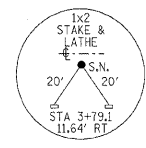
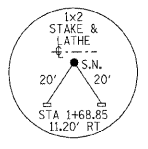
THE PROPOSED STONE DUMPED RIPRAP, CLASS A4 SHALL BE PLACED INSIDE THE PRECAST WINGWALLS AND ON THE SIDESLOPES ALONG THE DOWNSTREAM SIDE OF THE PROPOSED PRECAST BOX CULVERT TO THE RIGHT-OF-WAY LINE, AS SHOWN ON THE PLANS AND DIRECTED BY THE ENGINEER.

ALL ELEVATIONS ARE BASED ON U.S.G.S. MEAN SEA LEVEL DATUM.

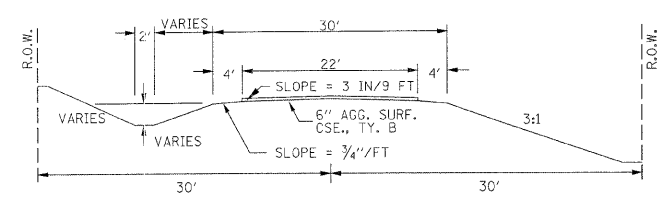
IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL THE UTILITIES, AFFECTING THE PROJECT, PRIOR TO CONSTRUCTION.

CURVE #1
P.I. STA= 2+00
A= LT. 118'25"
D= 190'452"
R= 5300'
T= 60.45'
120.90'
E= 0.34'
e= NONE
T.R.= NONE
S.E. RUN= NONE
P.C. STA= 1+39.54
P.T. STA= 2+60.44

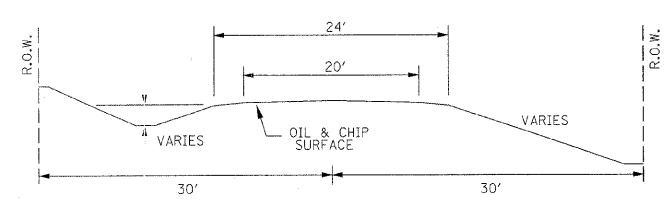
NOTE: CONSTRUCTION TRANSITIONS
STA. 1+15 TO STA 1+75
STA. 2+15 TO STA 2+75
ALL QUANTITIES ARE INCLUDED IN THE PROPOSAL



TYPICAL CROSS SECTION PROPOSED



TYPICAL CROSS SECTION EXISTING



UTILITIES:

J.U.L.I.E. 1-800-892-0123

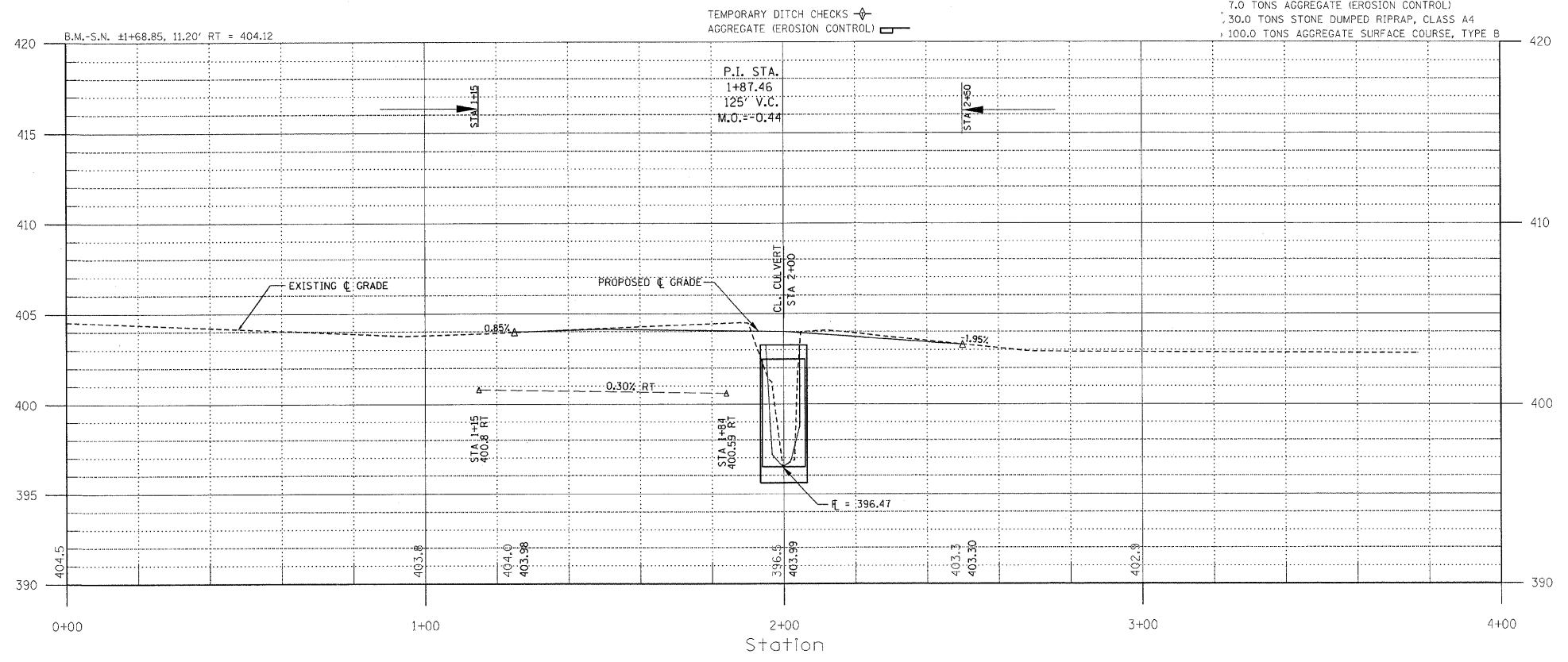
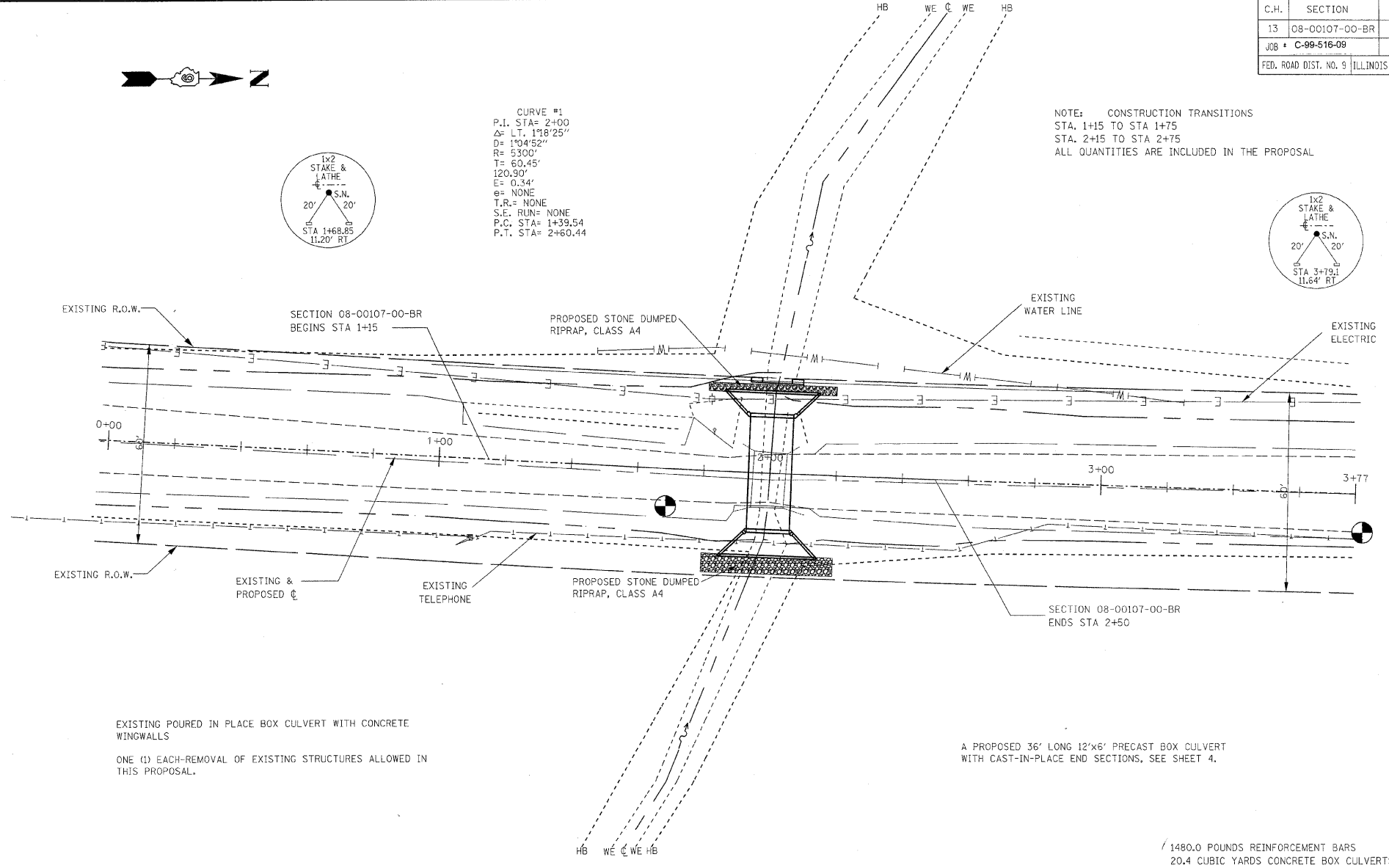
VILLAGE OF BURNT PRAIRIE 618-896-5859

VERIZON 618-395-6191

WAYNE-WHITE CO-OP ELECTRIC 618-842-2196

NOTE: CONSTRUCT SPECIAL DITCH

STA 1+15 TO STA 1+84 RT



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(62-032435)(35-002769)



AARON M. MEFFORD
NAME
SIGNATURE
DATE
11-14-08
11-30-09 EXPIRES

COUNTY HIGHWAY 13
CULVERT
WHITE COUNTY, ILLINOIS

SHEET TITLE:

SEC. 08-00107-00-BR
PLAN & PROFILE

SCALE: 1"=20'
BY: A.M.M.
DATE: 11/08
REV:

2 OF 7 SHEETS

SHEET NO. 2

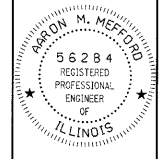
C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
13	08-00107-00-BR	WHITE	7	3
JOB # C-99-516-09		CONTRACT # 99344		
FED. ROAD DIST. NO. 9 ILLINOIS		LEC JOB # H08L019WH		

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P.O. BOX 160
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SUITE 1
FRANCETON, IN
47670
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AARON M. MEFFORD
NAME
Aaron Mefford
SIGNATURE
11-14-06
DATE
11-30-09
EXPIRES

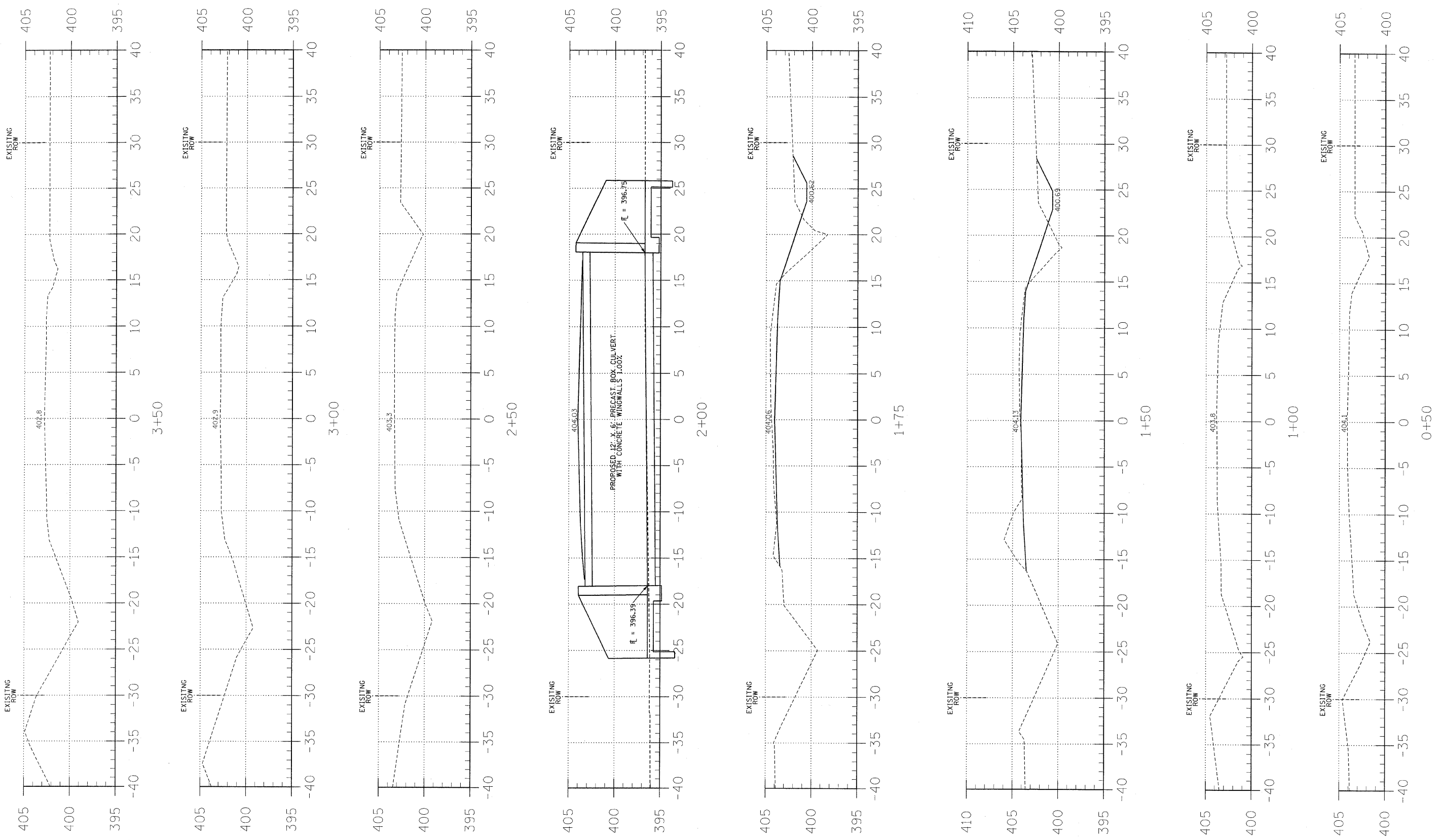
COUNTY HIGHWAY 13
CULVERT
WHITE COUNTY, ILLINOIS

SHEET TITLE:
SEC. 08-00107-00-BR
CROSS-SECTIONS

SCALE: 1" = 5'
BY: AMM
DATE: 10/08
REV:

3 OF 7
SHEETS

SHEET NO.
3



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AARON M. MEFFORD
NAME
SIGNATURE
DATE
11-14-08
11-30-09
EXPIRES

COUNTY HIGHWAY 13
CULVERTS
WHITE COUNTY, ILLINOIS

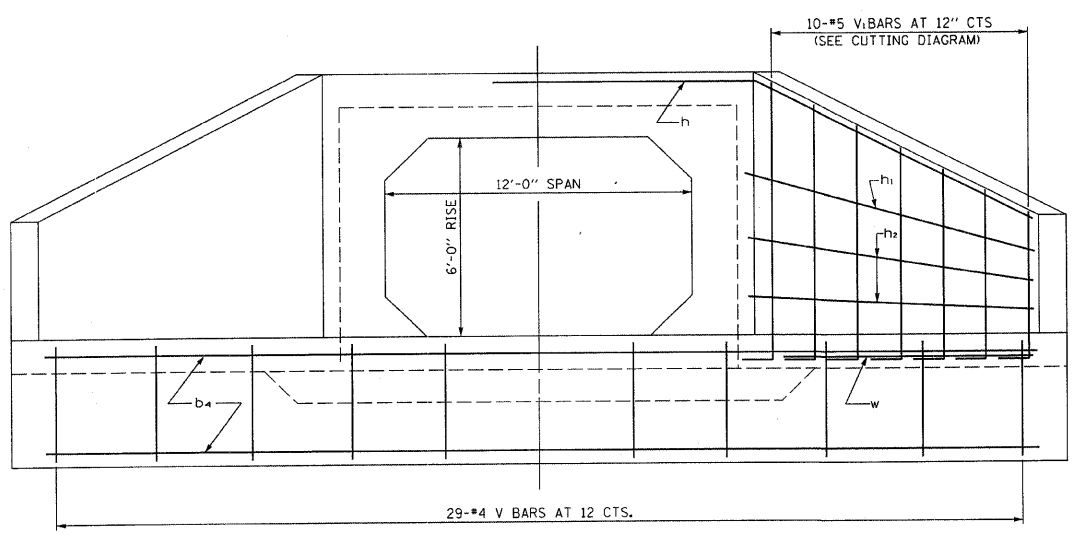
SHEET TITLE:

SEC. 08-00107-00-BR
CAST-IN-PLACE
END SECTION

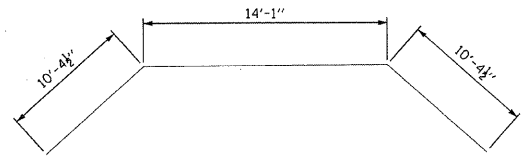
SCALE: N.T.S.
BY: A.M.M.
DATE: 11/6/08
REV:

4 OF 7
SHEETS

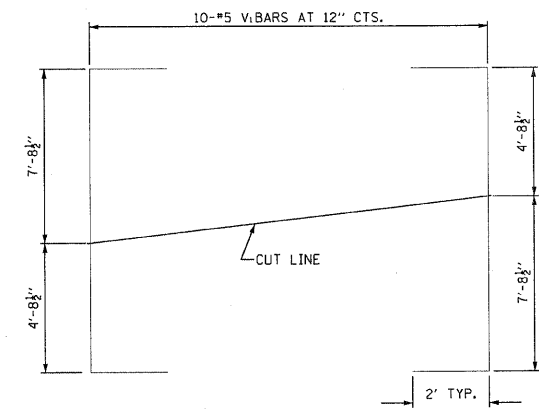
SHEET NO.
4



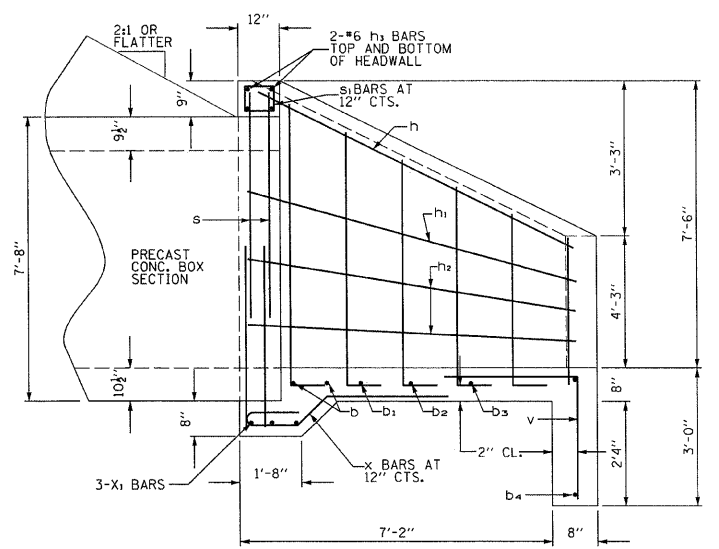
END ELEVATION



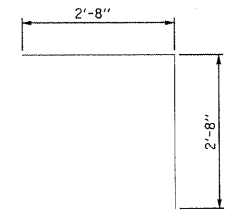
BAR h



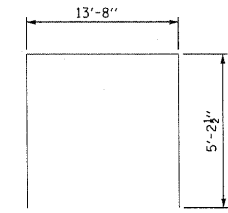
FIELD CUTTING DIAGRAM
BARS v1



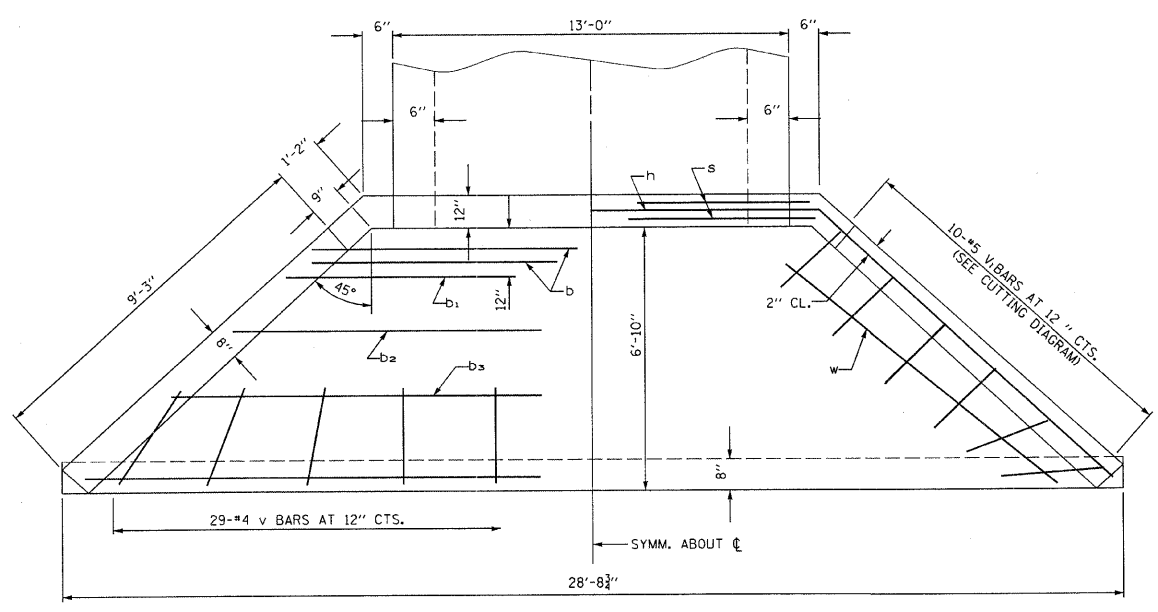
HALF SIDE ELEVATION



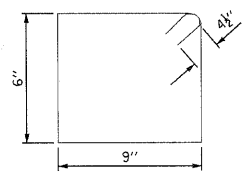
BAR v



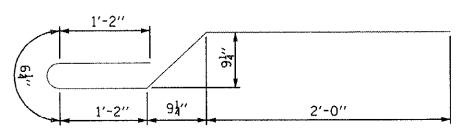
BAR s
(MIN. 20" BAR LAP)



PLAN



BAR s1



BAR x

NOTES:
EXPOSED EDGES SHALL BE BEVELED 3/4"
REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS
OF AASHTO M-31, M-42 OR M-53, GRADE 60.
OMIT BELL OR SPIGOT ON END PRECAST BOX CULVERT SECTION.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
b	2	#5	16'-2"	—
b1	1	#4	17'-6"	—
b2	1	#4	20'-10"	—
b3	1	#4	24'-10"	—
b4	2	#4	28'-4"	—
h	1	#5	34'-10"	—
h1	2	#4	9'-8"	—
h2	4	#4	9'-5"	—
h3	4	#6	13'-5"	—
s	4	#4	24'-1"	□
s1	14	#4	3'-3"	□
v	29	#4	5'-4"	—
v1	10	#5	16'-4"	—
w	2	#4	8'-7"	—
x	14	#4	6'-0"	—
x1	3	#4	13'-5"	—
Concrete Box Culverts		Cu. Yd.	10.2	
Reinforcement Bars		Pound	740	

TABLE FOR ONE (1) HEADWALL ONLY
BAR DIMENSIONS ARE OUT TO OUT

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
13	08-00109-00-BR	WHITE	7	5

323 W. 3RD ST.
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PROFESSIONAL DESIGN FIRM
LAND SURVEY & PROFESSIONAL ENGINEERING CORPORATION
184-00087
(62-032435)(35-002769)

AARON M. MEFFORD
56284
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

AARON M. MEFFORD
NAME
SIGNATURE
DATE
11-14-08
11-30-09
EXPIRES

CITY OF GRAYVILLE
WALDON CULVERT
WHITE COUNTY, ILLINOIS

SHEET TITLE:
SEC. 08-00109-00-BR
PLAN & PROFILE

SCALE: 1"=20'
BY: A.M.M.
DATE: 11/6/08
REV:

5 OF 7
SHEETS

SHEET NO.
5

GENERAL NOTES:

THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS, SPECIAL PROVISIONS AND "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2007.

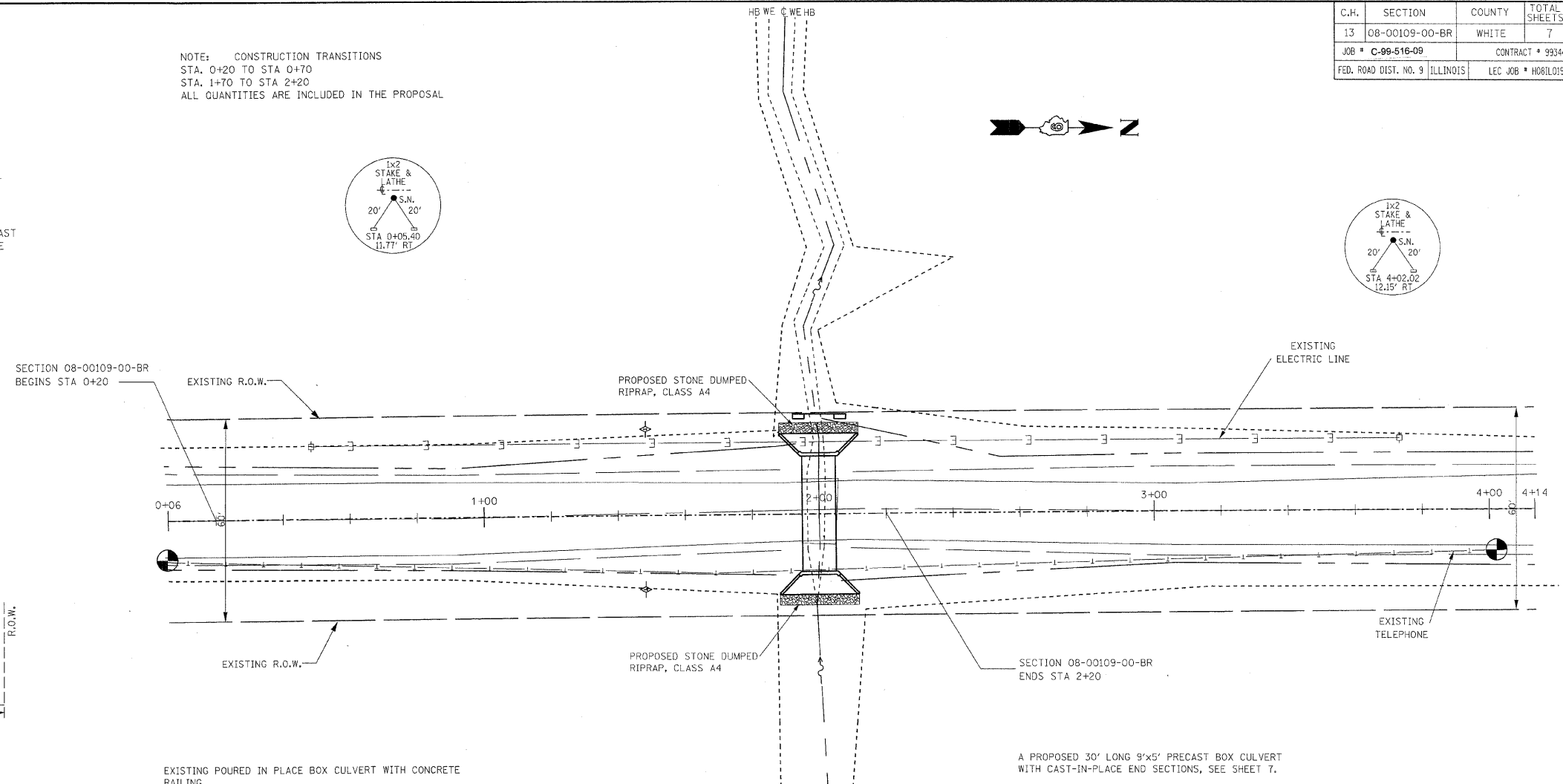
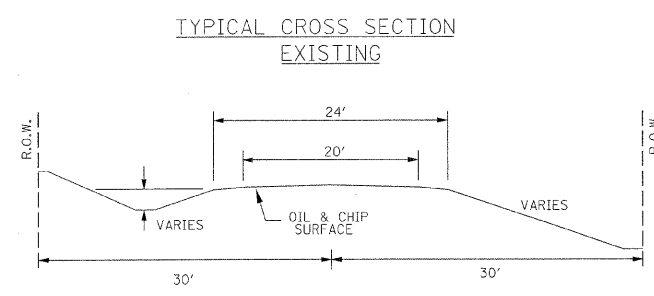
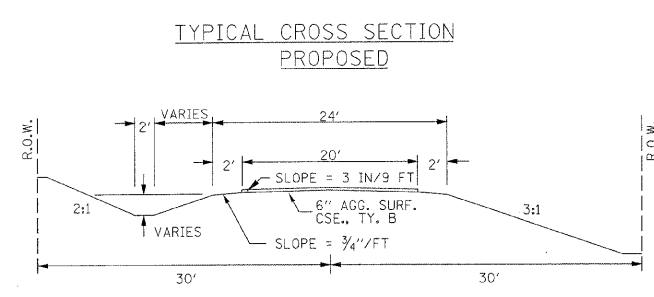
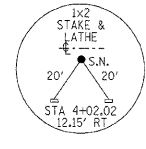
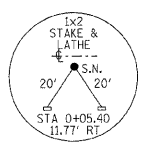
THE WORK INVOLVED ON THIS SECTION CONSISTS OF THE REMOVAL OF THE EXISTING STRUCTURE, THE CONSTRUCTION OF A PIPE CULVERT, TYPE 1, ELLIPTICAL EQUIVALENT ROUND SIZE-72", EARTH APPROACHES, AGGREGATE SURFACE COURSE AND OTHER MISCELLANEOUS ITEMS NECESSARY TO COMPLETE THIS SECTION.

THE PROPOSED STONE DUMPED RIPRAP, CLASS A4 SHALL BE PLACED ALONG THE PRECAST FLARED END SECTIONS AND ON THE SIDESLOPES ALONG THE DOWNSTREAM SIDE OF THE PROPOSED PIPE CULVERT TO THE RIGHT-OF-WAY LINE, AS SHOWN ON THE PLANS AND DIRECTED BY THE ENGINEER.

ALL ELEVATIONS ARE BASED ON U.S.G.S. MEAN SEA LEVEL DATUM.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL THE UTILITIES, AFFECTING THE PROJECT, PRIOR TO CONSTRUCTION.

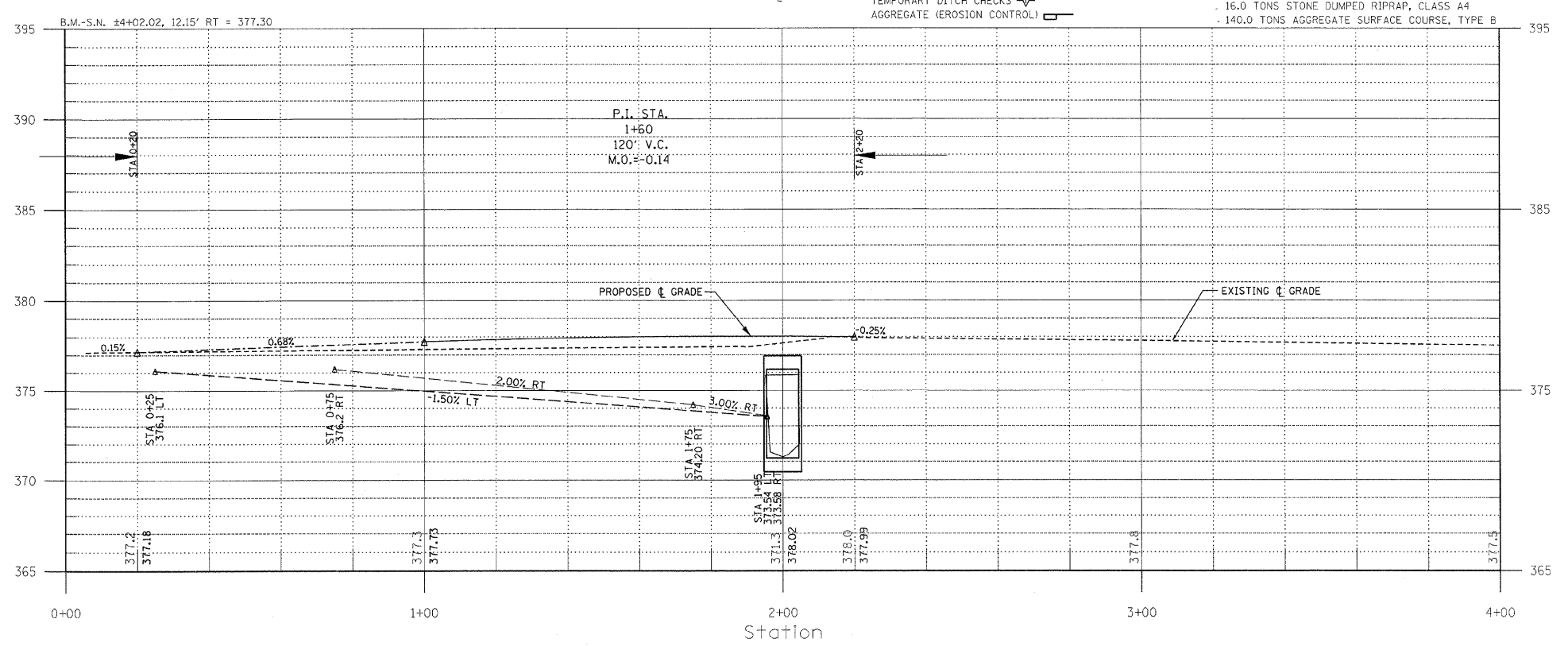
NOTE: CONSTRUCTION TRANSITIONS
STA. 0+20 TO STA 0+70
STA. 1+70 TO STA 2+20
ALL QUANTITIES ARE INCLUDED IN THE PROPOSAL



EXISTING POURED IN PLACE BOX CULVERT WITH CONCRETE RAILING
ONE (1) EACH-REMOVAL OF EXISTING STRUCTURES ALLOWED IN THIS PROPOSAL.

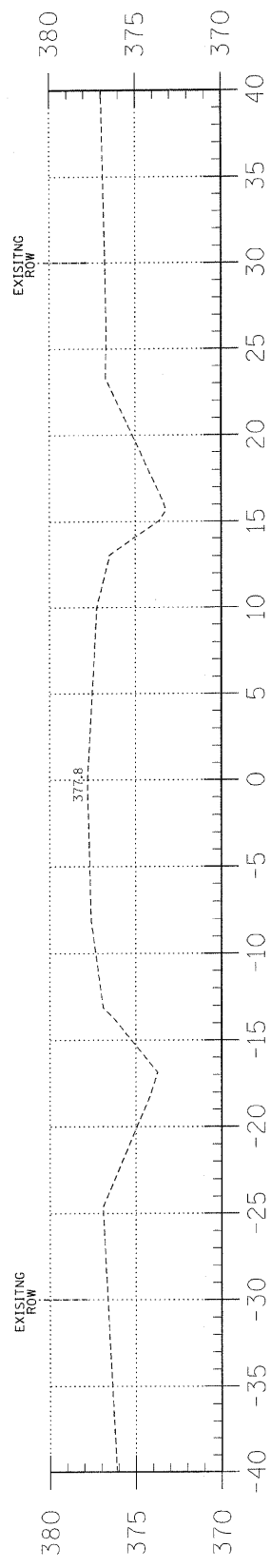
A PROPOSED 30' LONG 9'x5' PRECAST BOX CULVERT WITH CAST-IN-PLACE END SECTIONS, SEE SHEET 7.

- 1200.0 POUNDS REINFORCEMENT BARS
- 15.2 CUBIC YARDS CONCRETE BOX CULVERTS
- 140.0 CUBIC YARDS TRENCH BACKFILL
- 9.0 TONS AGGREGATE (EROSION CONTROL)
- 16.0 TONS STONE DUMPED RIPRAP, CLASS A4
- 140.0 TONS AGGREGATE SURFACE COURSE, TYPE B

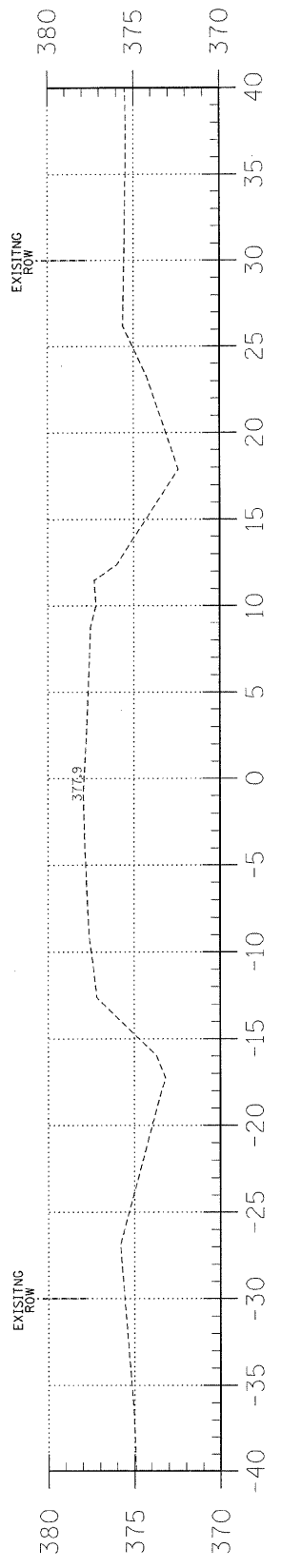


UTILITIES:
J.U.L.I.E. 1-800-892-0123
BROWNSVILLE WATER 618-265-3820
VERIZON 618-395-6191
WAYNE-WHITE CO-OP ELECTRIC 618-842-2196

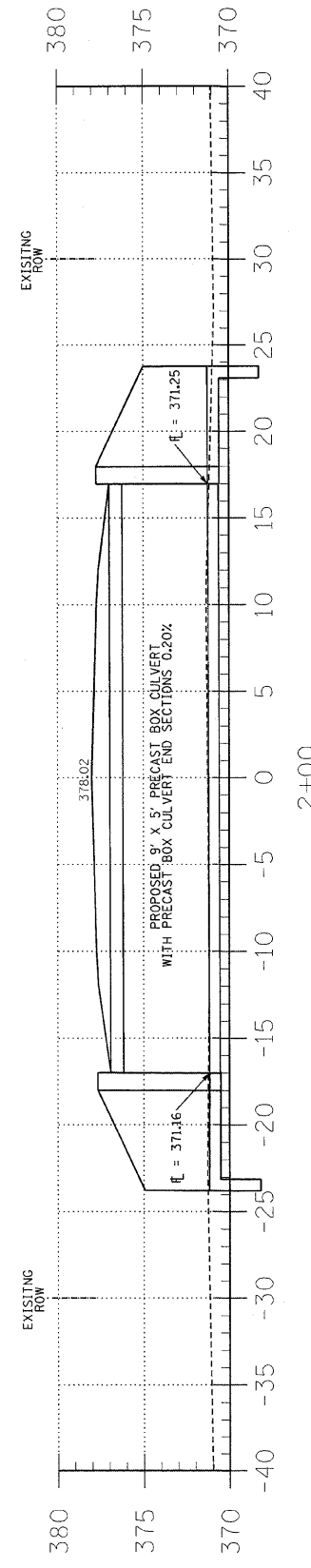
NOTE: CONSTRUCT SPECIAL DITCH
STA 0+75 TO STA 1+95 RT
STA 0+25 TO STA 1+95 LT



3+00

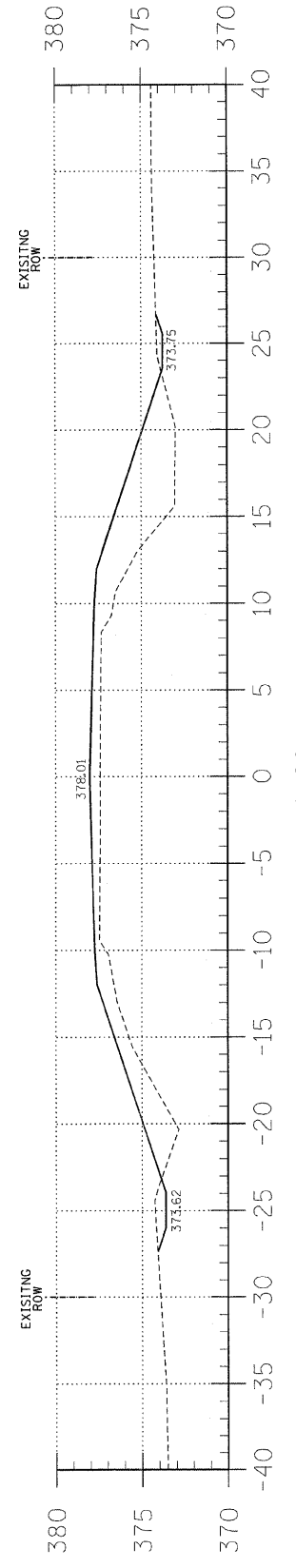


2+50

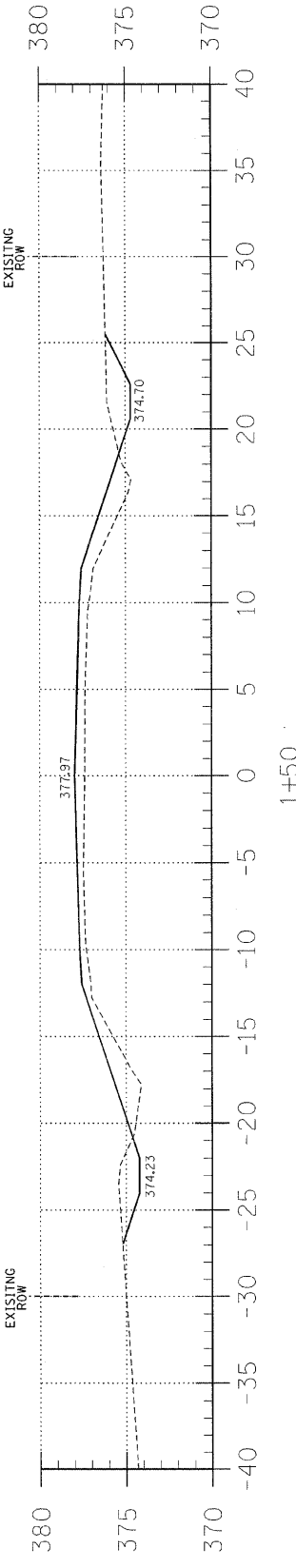


PROPOSED 8' X 5' PRECAST BOX CULVERT WITH PRECAST BOX CULVERT END SECTIONS 0.20%

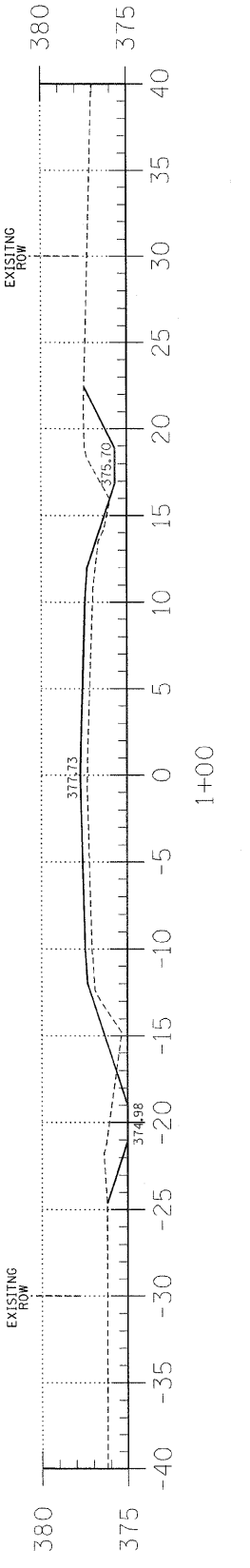
2+00



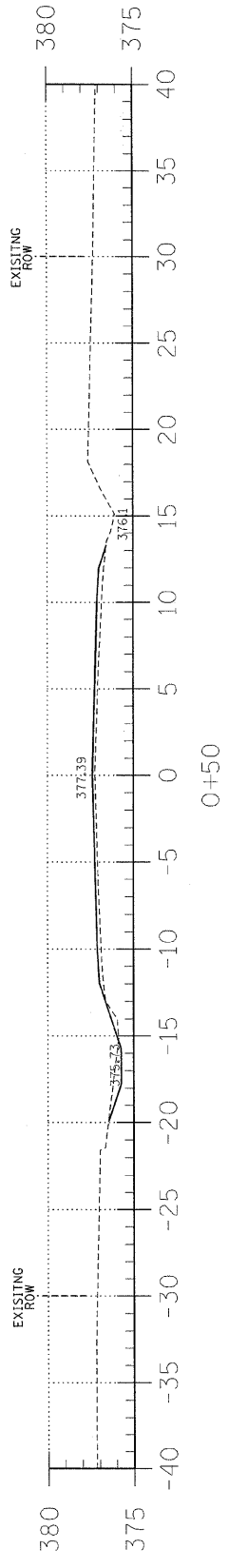
1+90



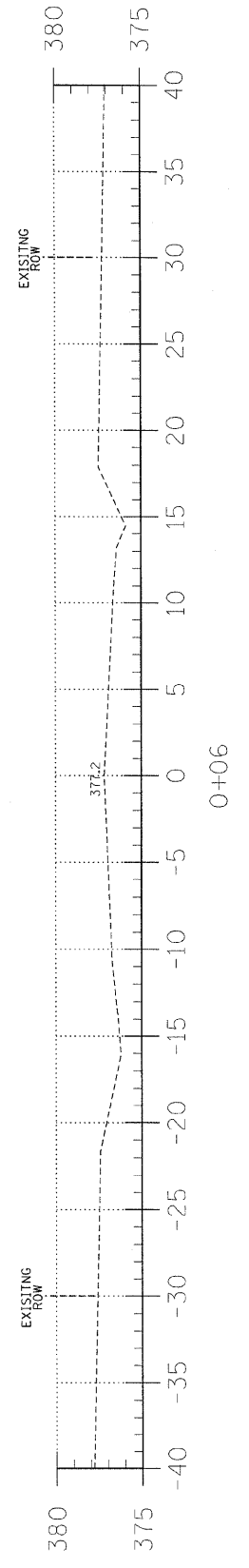
1+50



1+00



0+50



0+06

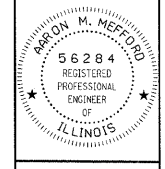
C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
13	08-00109-00-BR	WHITE	7	6
JOB # C-99-516-09			CONTRACT # 99344	
FED. ROAD DIST. NO. 9 ILLINOIS			LEC JOB # H081019WH	

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SIGNATURE
11-14-08
DATE
11-30-09 EXPIRES

COUNTY HIGHWAY 13
CULVERT
WHITE COUNTY, ILLINOIS

SHEET TITLE:

SEC. 08-00109-00-BR
CROSS-SECTIONS

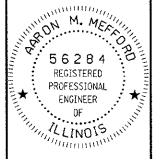
SCALE:	1" = 5'
BY:	AMM
DATE:	11/08/08
REV:	

6 OF 7
SHEETS

SHEET NO.
6



PROFESSIONAL DESIGN FIRM
LAND SURVEY & PROFESSIONAL ENGINEERING CORPORATION
184-000887
(62-032435)(35-002769)



AARON M. MEFFORD
NAME
SIGNATURE
DATE
11-4-08
11-30-09
EXPIRES

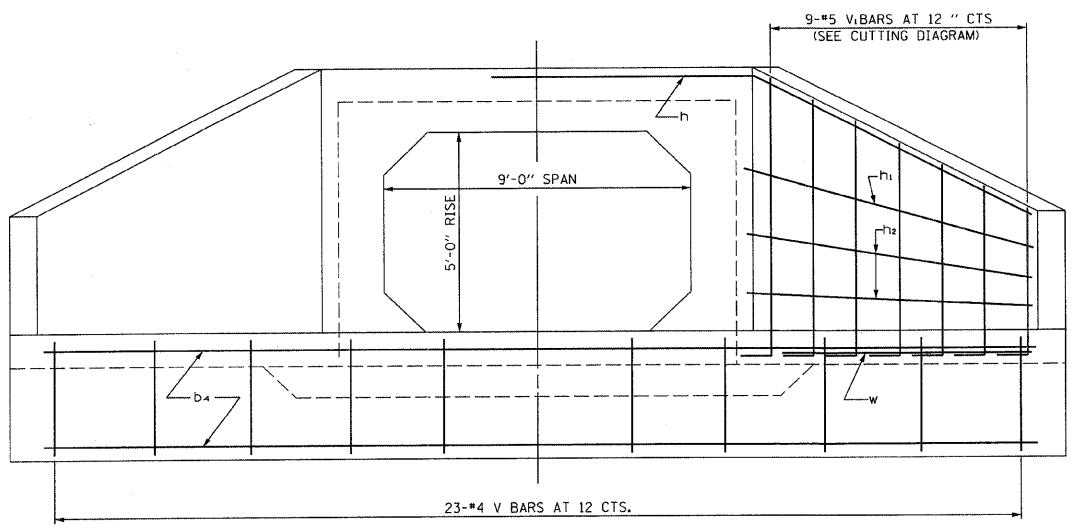
COUNTY HIGHWAY 13
CULVERTS
WHITE COUNTY, ILLINOIS

SHEET TITLE:
SEC. 08-00109-00-BR
CAST-IN-PLACE
END SECTION

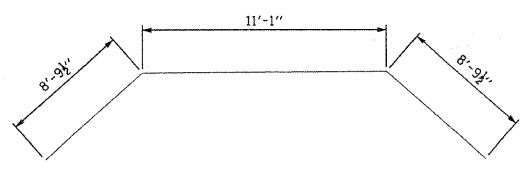
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BY: A.M.M.
DATE: 11/6/08
REV:

7 OF 7
SHEETS

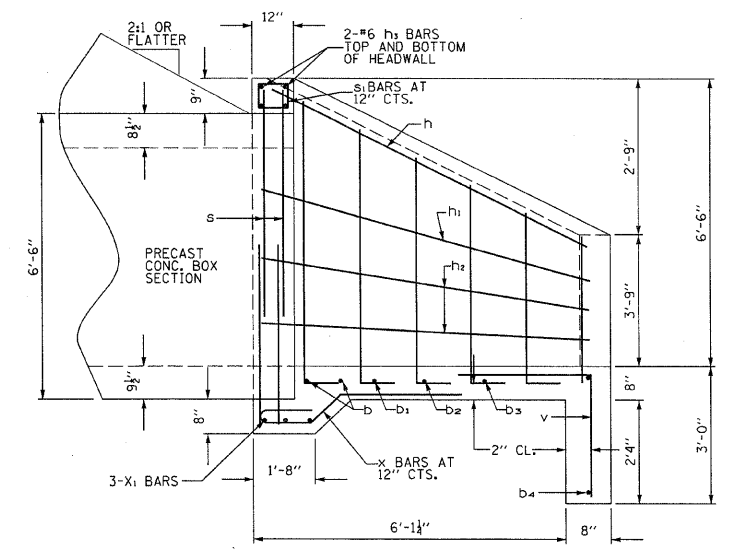
SHEET NO.
7



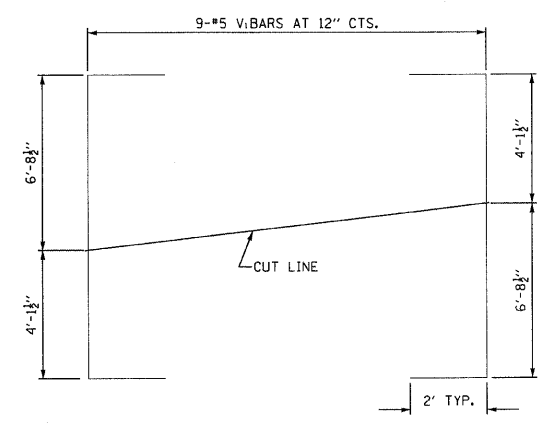
END ELEVATION



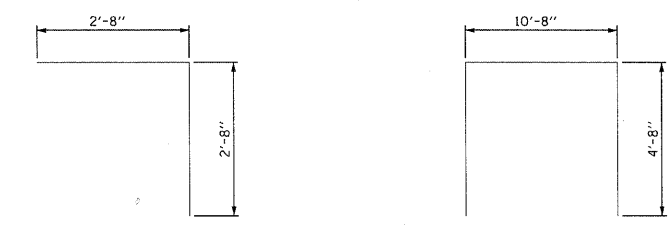
BAR h



HALF SIDE ELEVATION



FIELD CUTTING DIAGRAM
BARS v1



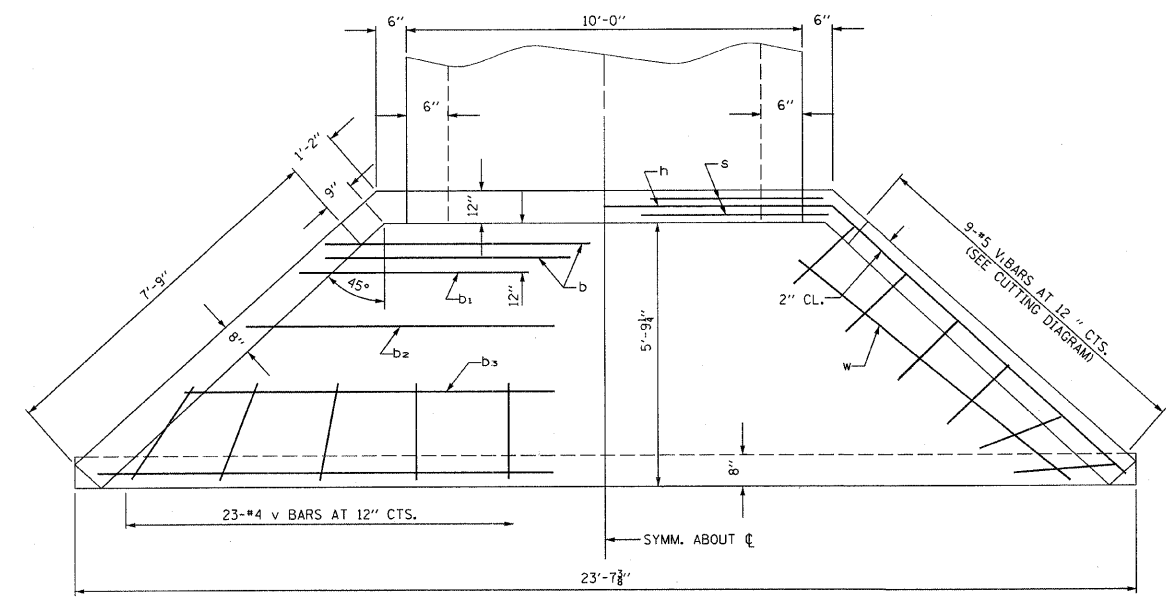
BAR v

BAR s
(MIN. 20" BAR LAP)

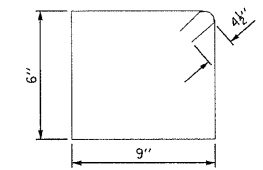
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
b	2	#5	13'-2"	—
b1	1	#4	14'-6"	—
b2	1	#4	16'-6"	—
b3	1	#4	19'-8"	—
b4	2	#4	23'-3"	—
h	1	#5	28'-8"	—
h1	2	#4	8'-7"	—
h2	4	#4	8'-5"	—
h3	4	#6	10'-5"	—
s	4	#4	20'-0"	—
s1	11	#4	3'-3"	—
v	24	#4	5'-4"	—
v1	9	#5	14'-10"	—
w	2	#4	7'-8"	—
x	11	#4	6'-0"	—
x1	3	#4	10'-5"	—
Concrete Box Culverts			Cu. Yd.	7.6
Reinforcement Bars			Pound	600

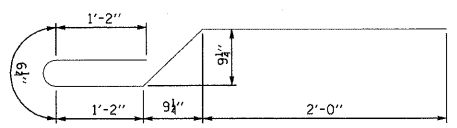
TABLE FOR ONE (1) HEADWALL ONLY
BAR DIMENSIONS ARE OUT TO OUT



PLAN



BAR s1



BAR x

NOTES:
EXPOSED EDGES SHALL BE BEVELED 3/4"
REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31, M-42 OR M-53, GRADE 60.
OMIT BELL OR SPIGOT ON END PRECAST BOX CULVERT SECTION.