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UTILITIES

- ATT/SBC (TELE PHONE)
- IL POWER (GAS)
- COM EDISON (ELECTRIC)

DESIGN DESIGNATION

- MAJOR COLLECTOR
- PRESENT ADT = 484 (2008)
- DESIGN TRAFFIC = 630 (2028)
- DHV:

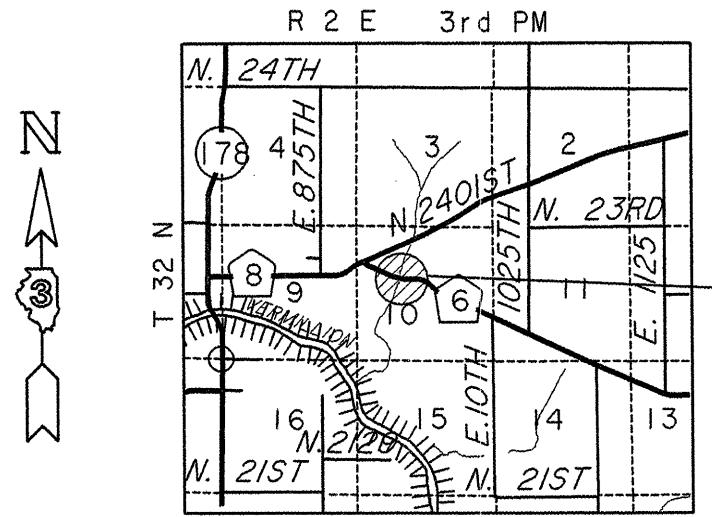
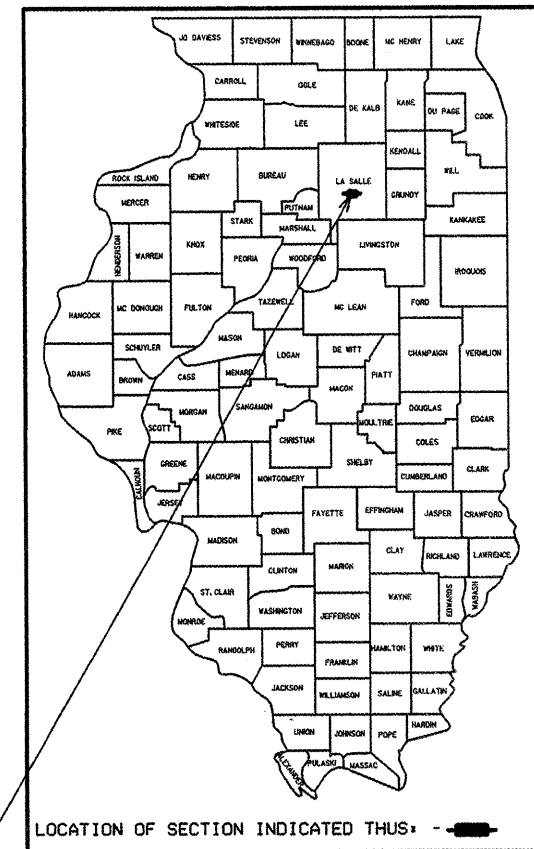
CONTRACT NUMBER 87367



STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 PLANS FOR PROPOSED BRIDGE IMPROVEMENT
 HIGHWAY BRIDGE PROGRAM

F.A.S. ROUTE 1281 SECTION 09-00648-00-BR
 PROJECT BRS-1281(103)
 JOB NO. C-93-064-08
 LA SALLE COUNTY

ROUTE NUMBER	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 1281	08-00648-00-BR	LASALLE	12	1
FED. ROAD DIST. NO.7		ILLINOIS	PROJECT BRS-1281(103)	
CONTRACT NUMBER 87367				



GROSS LENGTH 850 FT. 0.161 MI.
 OMISSIONS
 NET LENGTH 850 FT. 0.161 MI.



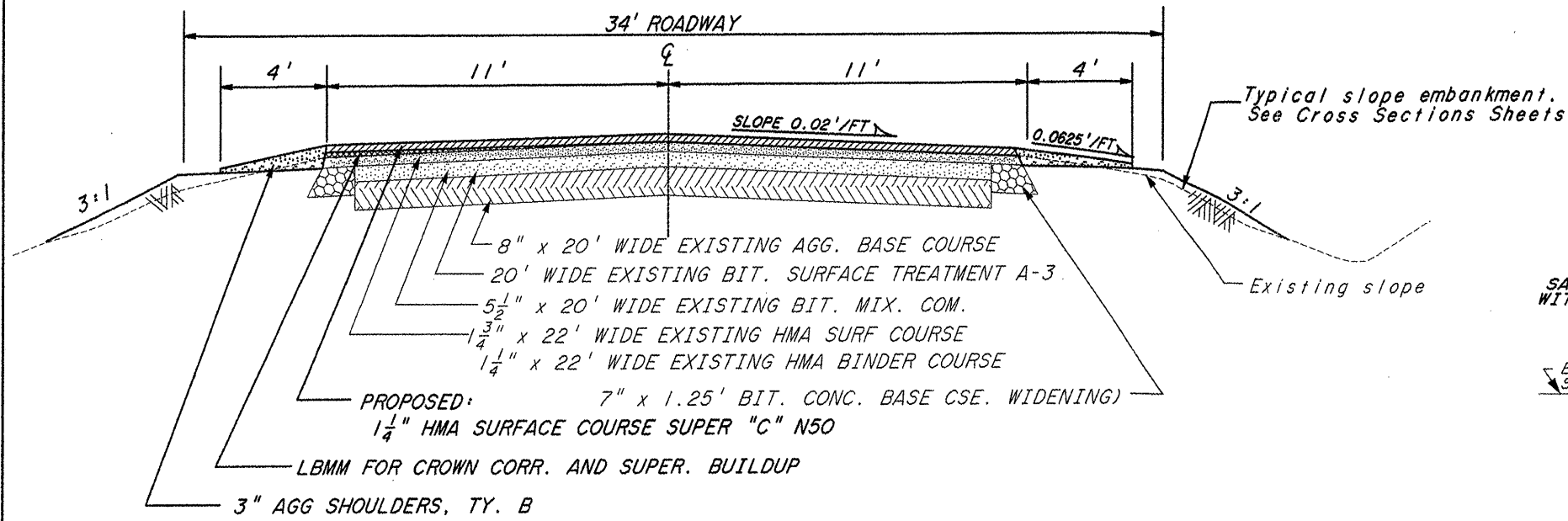
PROPOSED STRUCTURE NUMBER 050-3592
 THE CONSTRUCTION OF A 3-SIDED CONCRETE BRIDGE ON RC SPREAD FOOTINGS. 1 SPAN @ 29'-00" x 54' TL 34 FT. ROADWAY 30'-0" TOT. LENGTH AND THE NECESSARY RECONSTRUCTION OF THE APPROACH RDWY

THESE PLANS WERE PREPARED BY ME OR BY A FULL-TIME MEMBER OF MY STAFF WORKING UNDER MY PERSONAL SUPERVISION
 Lawrence J. Kinzer 10/29/2008
 LAWRENCE J. KINZER DATE
 COUNTY ENGINEER
 I.R.P.E. #62-40162 11-30-09 EXP.

THE ACCEPTANCE OF THIS PROJECT IS BASED ON THE MINIMUM DESIGN CRITERIA FOR A FEDERAL AID 3-R PROJECT

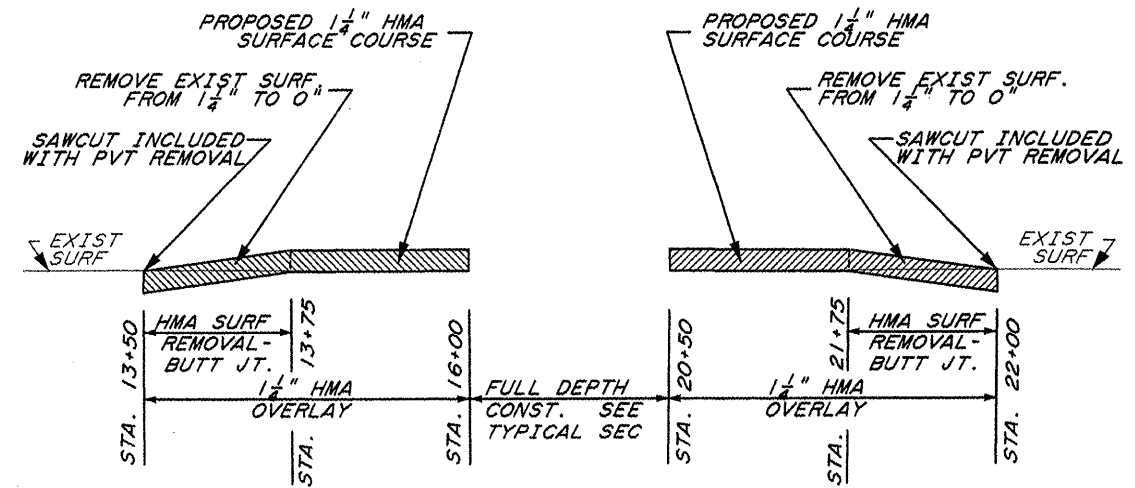
PASSED: 11-12-2008
 APPROVED: 11-12-08
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROUTE NUMBER	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1281	09-00648-00-BR	LASALLE	12	2
FED. ROAD DIST. NO.7		ILLINOIS	PROJECT BRS-1281(103)	
JOB NO. C-93-064-08		CONTRACT NO.87367		

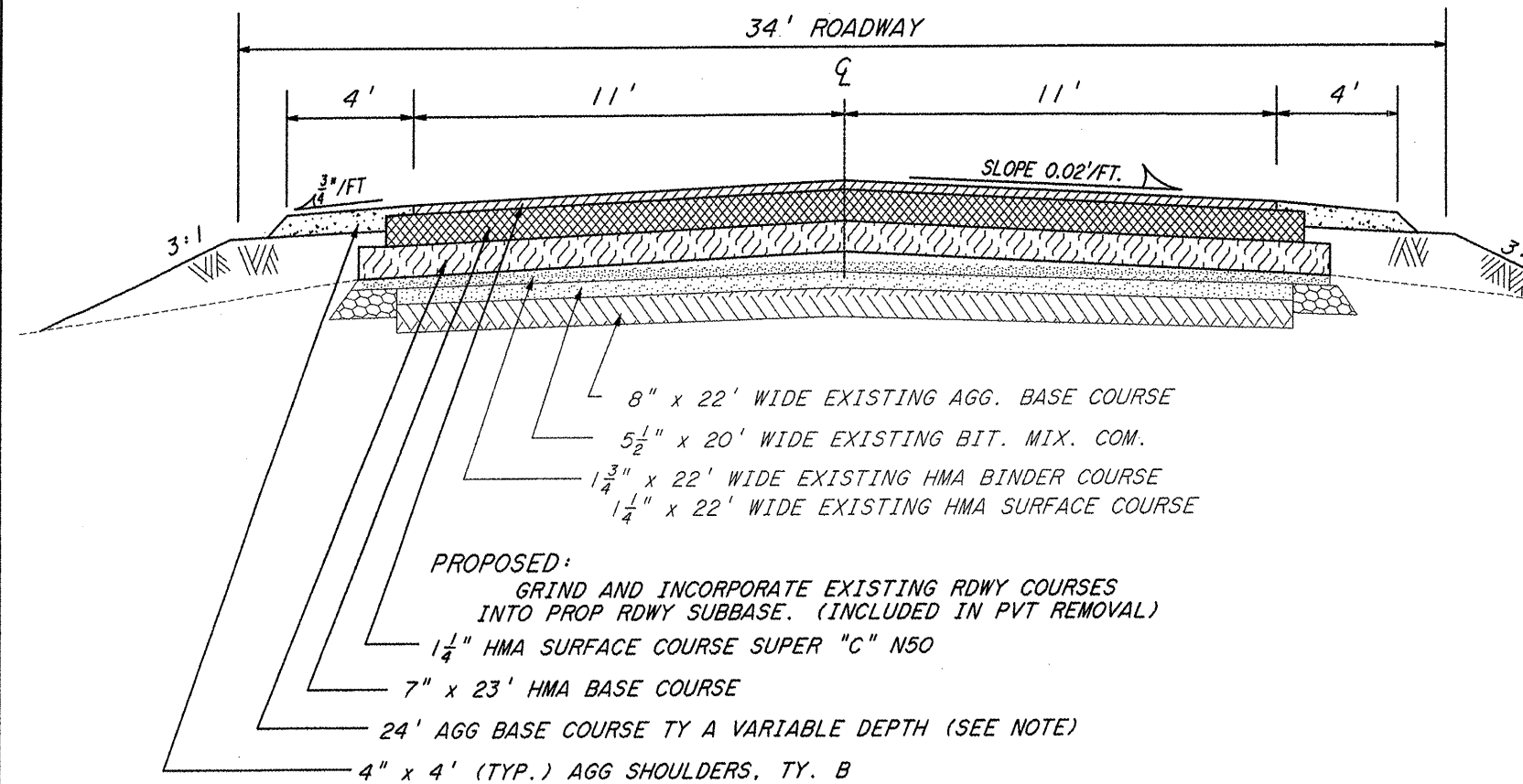


PROPOSED TYPICAL SECTION

STA. 13+50 TO STA. 16+00
 STA. 20+50 TO STA. 22+00



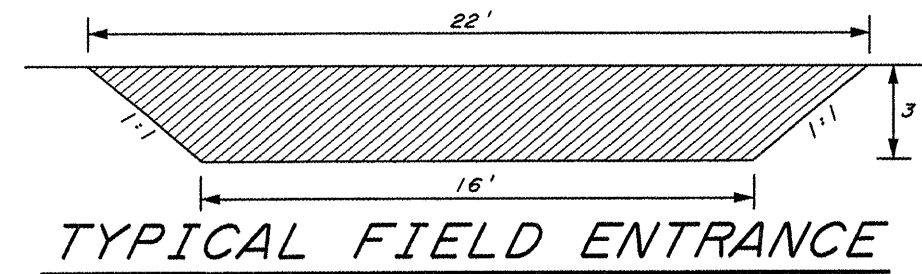
TAPER DETAIL



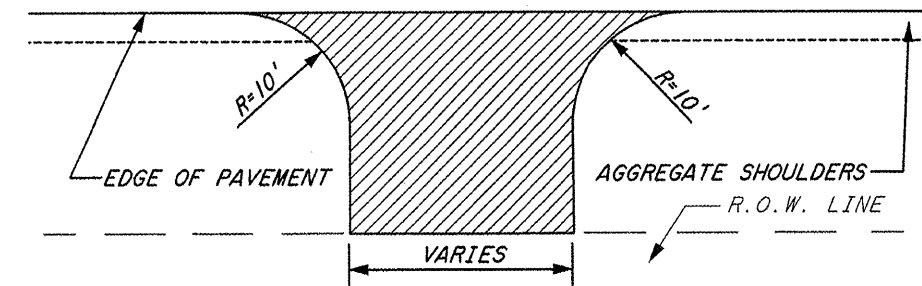
PROPOSED TYPICAL SECTION

STA. 16+00 TO STA. 20+50

NOTE: BASE COURSE SHALL BE NO LESS THAN 24' WIDE AND NO LESS THAN 8" DEEP REGARDLESS OF MATERIALS USED



TYPICAL FIELD ENTRANCE



TYPICAL PRIVATE ENTRANCE

TYPICAL SECTIONS AND DETAILS

SUMMARY OF QUANTITIES

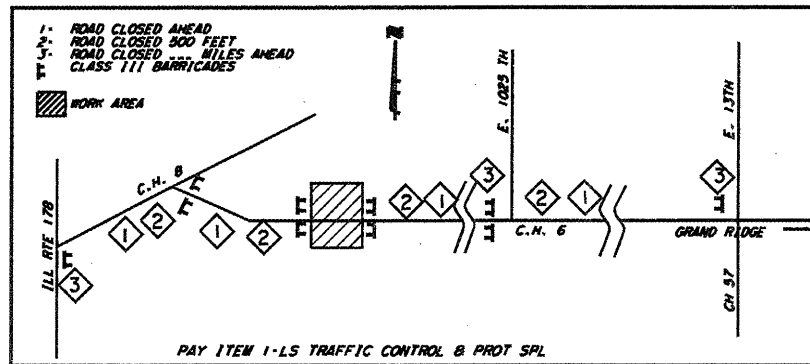
Pay Item*	Item	Unit	Quantity
20100110	TREE REMOVAL (6-15 UNITS DIAMETER)	UNIT	22
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	27
20101400	NITROGEN FERTILIZER NUTRIENT	POUND	59
20101500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	59
20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	59
20200100	EARTH EXCAVATION	CU YD	951
20400800	FURNISHED EXCAVATION	CU YD	1260
20700110	POROUS GRANULAR EMBANKMENT	TON	1300
21101615	TOPSOIL FURNISH AND PLACE 4"	SO YD	3180
25000200	SEEDING CLASS 2	ACRE	0.66
25100115	MULCH METHOD 2	ACRE	0.66
28000300	TEMPORARY DITCH CHECKS	EACH	19
28000400	PERIMETER EROSION BARRIER	FOOT	100
28000500	INLET AND PIPE PROTECTION	EACH	2
28100809	STONE DUMPED RIP CLASS A5	TON	220
28200200	FILTER FABRIC	SO YD	285
28300495	AGGREGATE DITCH, SPECIAL	SO YD	72
35100100	AGGREGATE BASE COURSE TYPE A	TON	1520
35501312	HOT-MIX ASPHALT BASE COURSE 7"	SO YD	1175
40600625	LEVELING BINDER (MACHINE METHOD) N50	TON	22
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	122
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	146
44000196	HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL	SO YD	1100
48101200	AGGREGATE SHOULDERS TYPE B	TON	165
50100100	REMOVE EXISTING STRUCTURES	EACH	1
50200400	ROCK EXCAVATION FOR STRUCTURE	CU YD	50
50300225	CONCRETE STRUCTURES	CU YD	56
50800105	REINFORCEMENT BARS	POUND	2890
51500100	NAME PLATES	EACH	1
54200223	PIPE CULVERTS CLASS D TYPE 1 18"	FOOT	40
63000130	STEEL PLATE BEAM GUARDRAIL TYPE A, SPECIAL	FOOT	362.5
63200310	GUARDRAIL REMOVAL	FOOT	333
66600115	FURNISH AND ERECT RIGHT OF WAY MARKERS, SPECIAL	EACH	6
67100100	MOBILIZATION	L SUM	1
70101800	TRAFFIC CONTROL AND PROTECTION, SPECIAL	L SUM	1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	80
*3002019	THREE SIDED PRECAST CONCRETE STRUCTURE 28' X 11'	FT	54
LR631020	TRAFFIC BARRIER TERMINAL TYPE 1	EACH	4

HMA MIXTURE REQUIREMENTS

LOCATION*	09-00648-00-BR		
MAX % RAP ALLOWABLE**	30%	30%	30%
MIXTURE USE*	HMA BASE COURSE	LEVEL BINDER MACHINE METHOD	HMA SURF. COURSE
PG GRADE*	PG64-22	PG64-22	PG64-22
DESIGN AIR VOIDS*	4.0% @ N50	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION*	1L-19.0	1L-9.5	1L-9.5
FRICTION AGGREGATE*			MIXTURE C
PLANT CONTROL*	LR 1030	LR 1030	LR 1030

** IF RAP OPTIONS IS SELECTED, THE ASPHALT CEMENT GRADE MAY NEED TO BE ADJUSTED. THIS WILL BE DETERMINED BY THE ENGINEER.

PROPOSED TRAFFIC PLAN



All traffic control devices shall be in accordance with the Illinois MUTCD

SUPERELEVATION SCHEDULE

STA. TO STA.	STA. TO STA.
NORMAL CROWN	11+81.73
TRANSITION SUPER	11+81.73-13+73.73
FULL SUPER 0.08'	13+73.73-17+75.09
TRANSITION SUPER	17+75.09-19+67.09
NORMAL CROWN	19+67.09
NORMAL CROWN	21+17.43-22+85.43
TRANSITION SUPER	22+85.43-26+32.95
FULL SUPER 0.08'	26+32.95-28+00.43
TRANSITION SUPER	28+00.43
NORMAL CROWN	28+00.43

GUARDRAIL REMOVAL SCHEDULE

STA TO STA	LOC	REMOVE SPBGR
16+31 - 18+24	LT	93.0
18+50 - 19+24	LT	75.0
16+34 - 18+24	RT	90.0
18+30 - 19+25	RT	75.0
TOTAL		333.0

GUARDRAIL SCHEDULE

STA TO STA	LOC	SPBGR TY A	TOT FT
17+00.0 - 17+25.0	LT		1 EACH
17+25.0 - 19+20.0	LT	200	
19+25.0 - 19+50.0	LT		1 EACH
17+37.5 - 17+62.5	RT		1 EACH
17+62.5 - 19+25.0	RT	162.5	
19+25.0 - 19+50.0	RT		1 EACH
TOTAL		362.5	4 EACH

EROSION CONTROL SCHEDULE

STA TO STA	LOC	INLET PBP/PT	PER EROS BAR	TEMP DIT. CKS
14+00 - 22+00	LT			9
14+00 - 22+00	RT			10
16+25 - 17+00	30' LT	1.0		
16+75 - 17+00	34' RT	1.0		
17+50 - 18+00	LT&RT		100	
TOTAL		2.0 EA	100.0	19

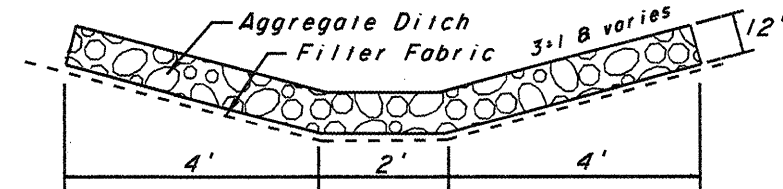
TREE REMOVAL SCHEDULE

STA	LOC	6-15	OVER 15
17+00	LT	6	
17+18	LT	7	
17+40	LT	8	
18+75	RT		27
TOTAL		22	27

ROW MARKER SCHEDULE

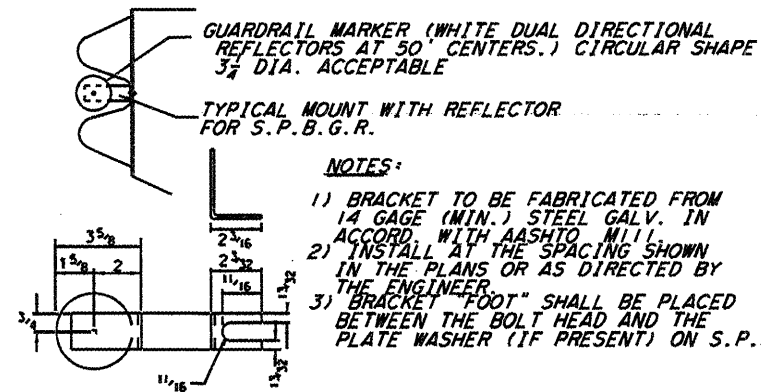
STA	LOC	NUMBER
16+16	45' LT	1 EACH
16+16	60' RT	1 EACH
18+46	60' RT	1 EACH
20+16	50' LT	1 EACH
20+91	60' RT	1 EACH
20+91	40' RT	1 EACH
TOTAL		6 EACH

ROUTE NUMBER	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1281	09-00648-00-BR	LASALLE	12	3
FED. ROAD DIST. NO.7		ILLINOIS	PROJECT ERS-1281(103)	
JOB NO. C-93-064-08		CONTRACT NO.87367		



AGGREGATE DITCH DETAIL

Sta 19+60-Sta 20+00 L1 & R1



GUARDRAIL REFLECTOR DETAIL

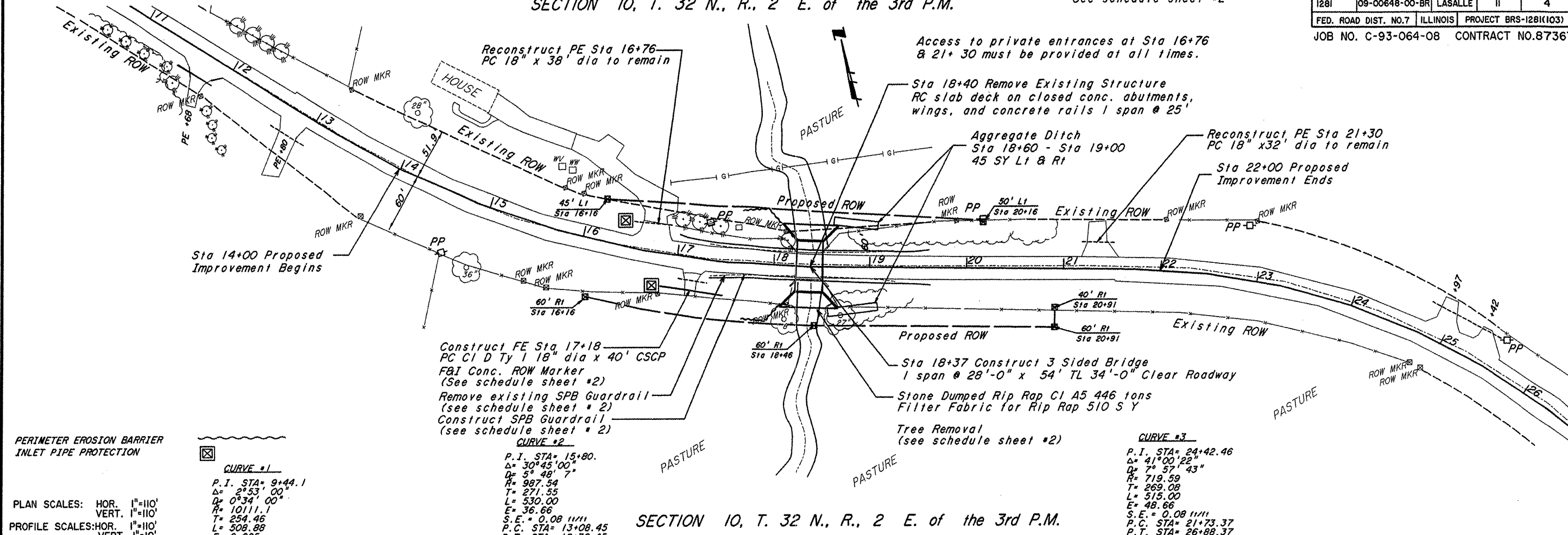
8- REQUIRED @ 50' CTS INCIDENTAL TO COST OF SPBGR TY A SPL

SUMMARY OF QUANTITIES AND MISCELLANEOUS DETAILS

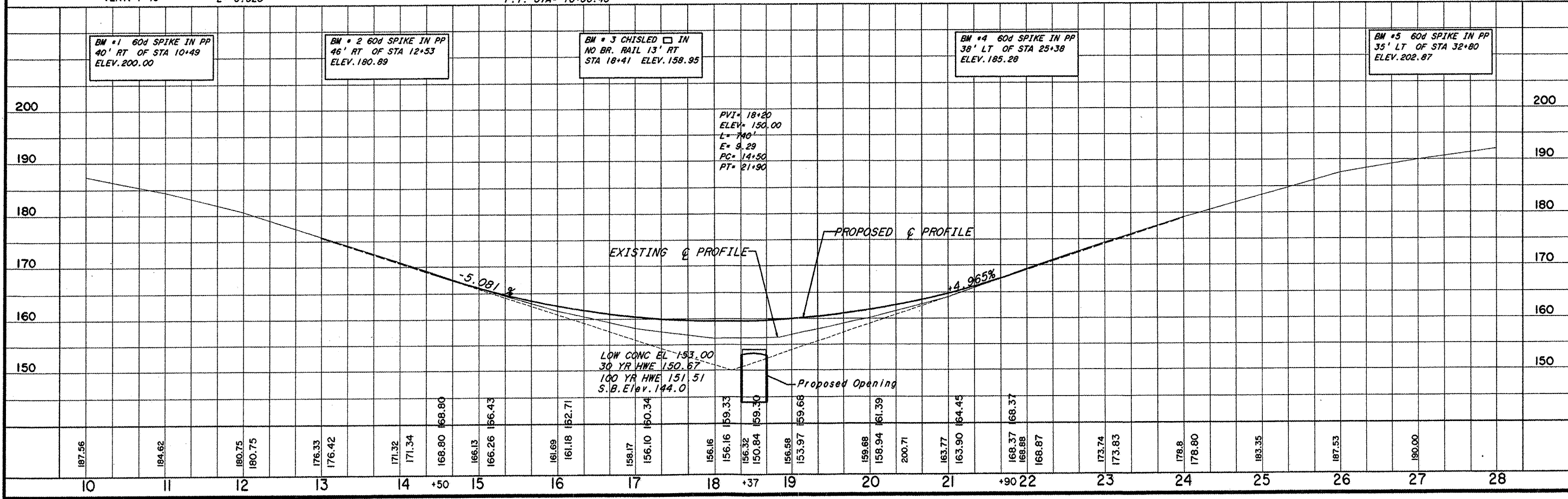
SECTION 10, T. 32 N., R. 2 E. of the 3rd P.M.

Const Perimeter Erosion Barrier
See schedule sheet #2

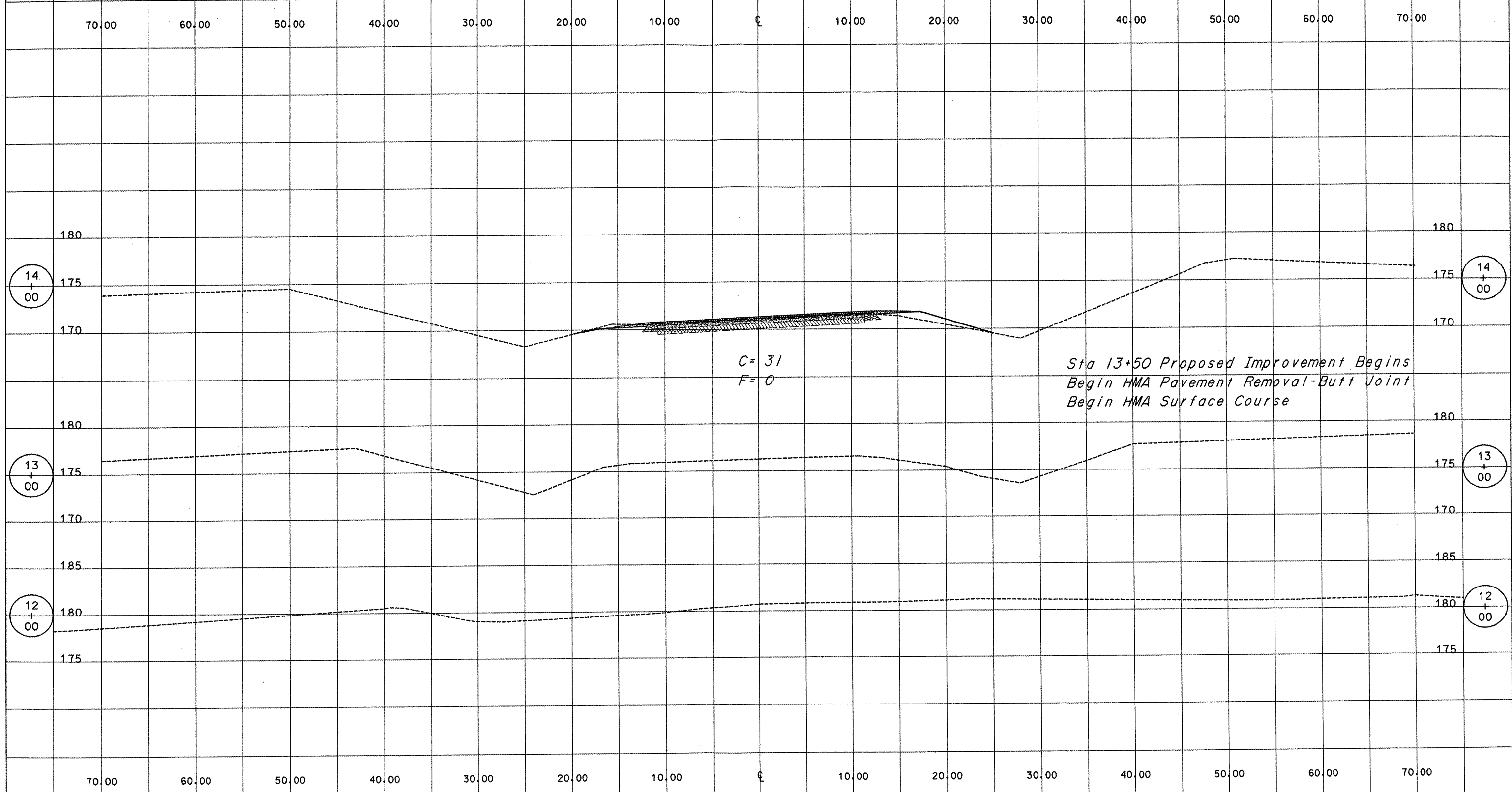
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1281	09-00648-00-BR	LASALLE	11	4
FED. ROAD DIST. NO.7		ILLINOIS	PROJECT BRS-1281(103)	
JOB NO. C-93-064-08		CONTRACT NO.87367		



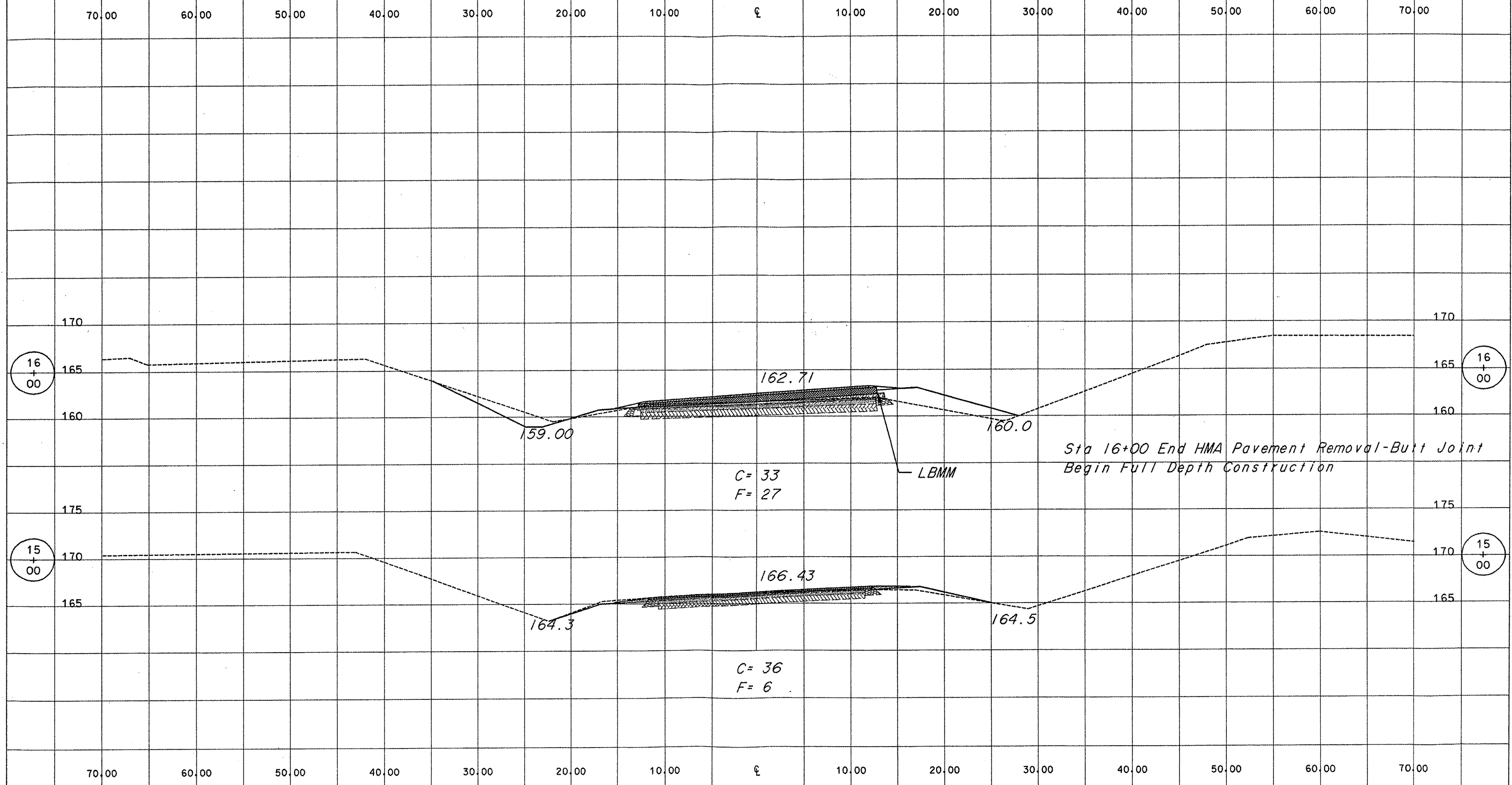
SECTION 10, T. 32 N., R. 2 E. of the 3rd P.M.



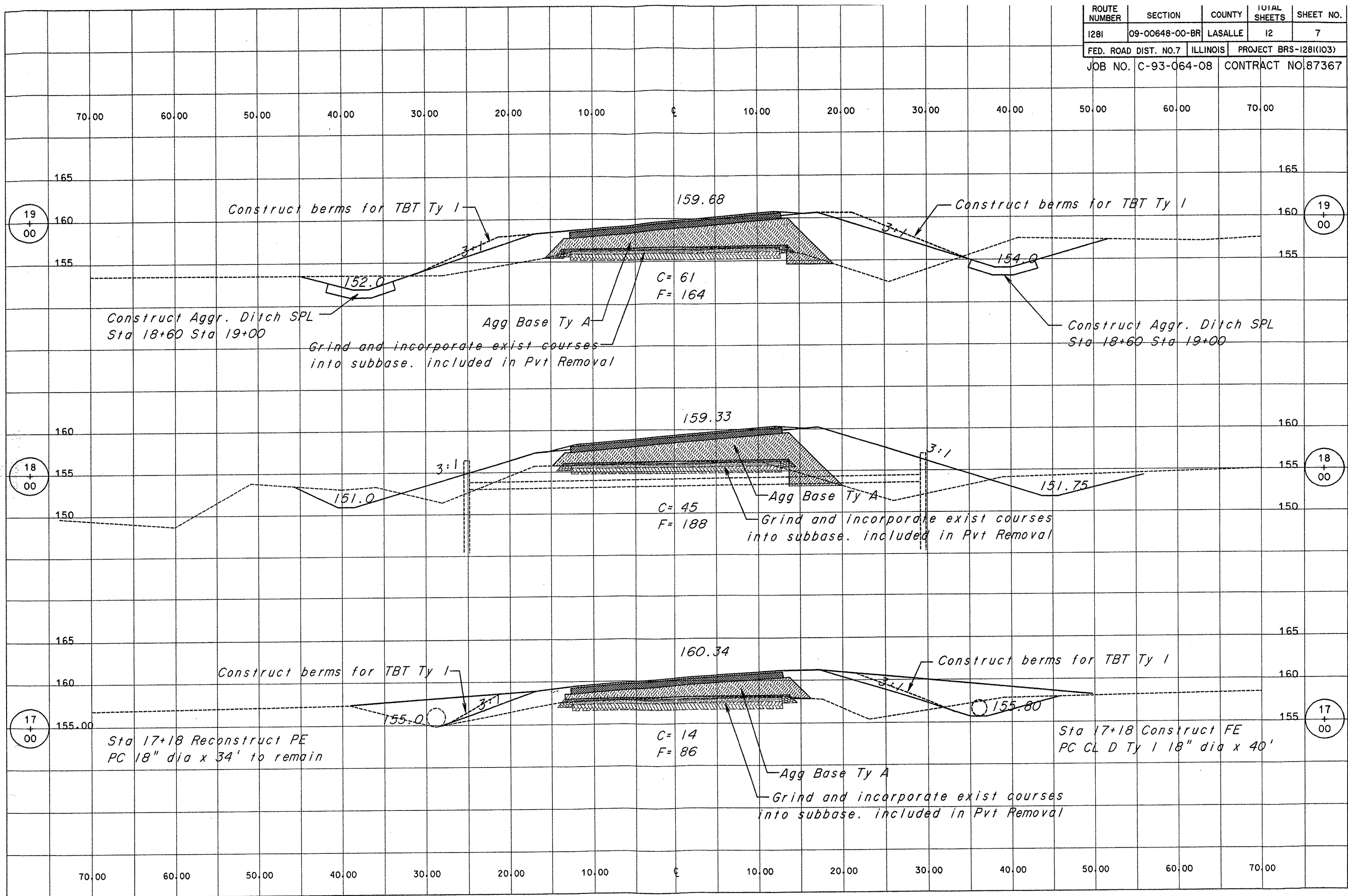
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1281	09-00648-00-BR	LASALLE	12	5
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JOB NO. C-93-064-08		CONTRACT NO.87367		



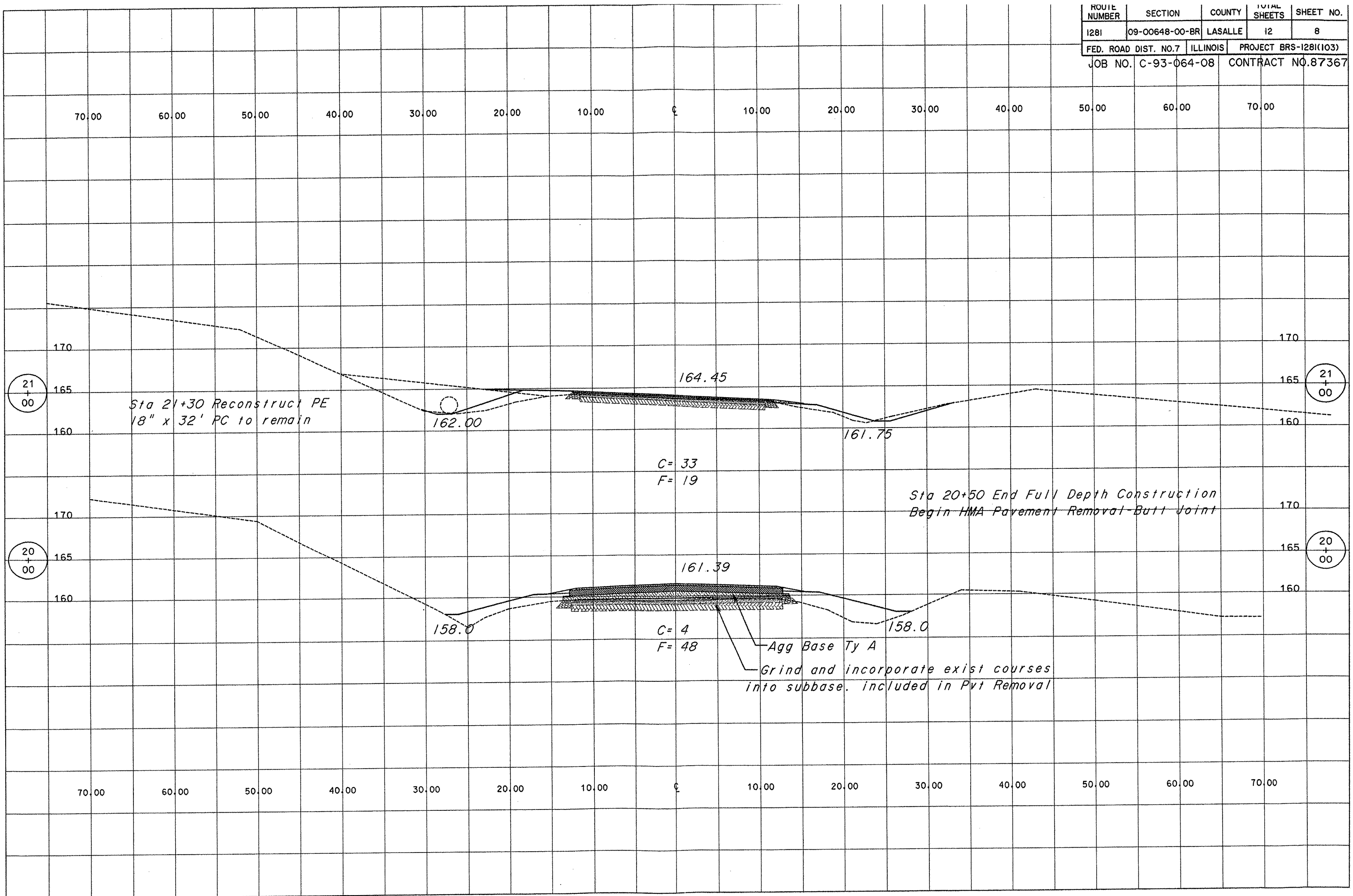
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1281	09-00648-00-BR	LASALLE	12	6
FED. ROAD DIST. NO.7		ILLINOIS	PROJECT BRS-1281(103)	
JOB NO. C-93-064-08			CONTRACT NO. 87367	



ROUTE NUMBER	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1281	09-00648-00-BR	LASALLE	12	7
FED. ROAD DIST. NO.7		ILLINOIS	PROJECT BRS-1281(103)	
JOB NO. C-93-064-08			CONTRACT NO. 87367	

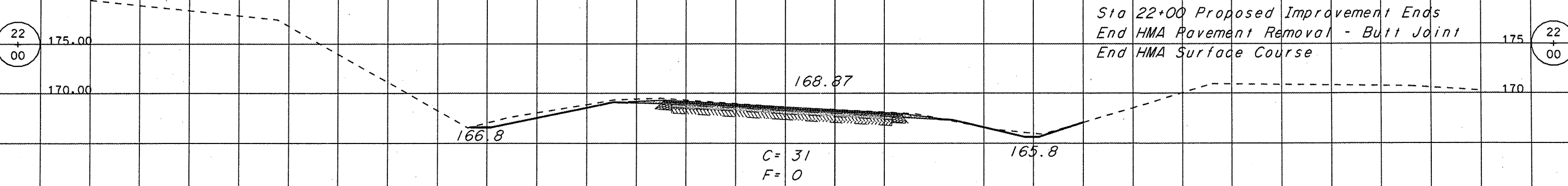
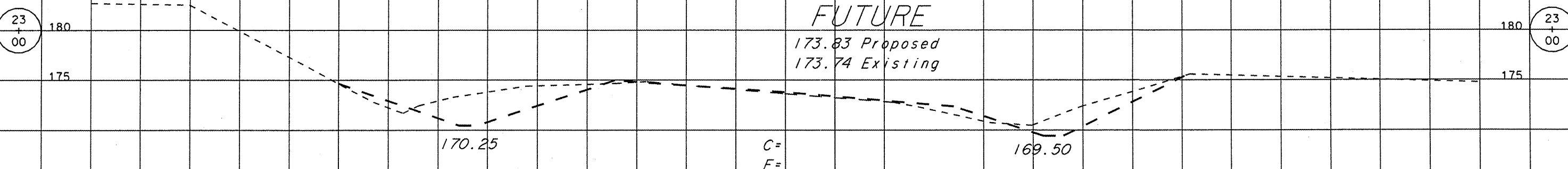
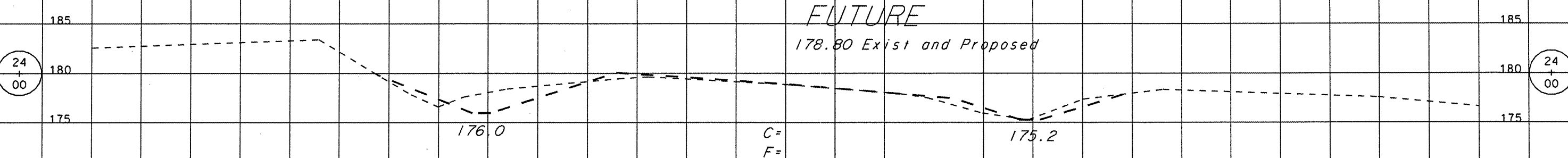


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1281	09-00648-00-BR	LASALLE	12	8
FED. ROAD DIST. NO.7		ILLINOIS	PROJECT BRS-1281(103)	
JOB NO. C-93-064-08		CONTRACT NO.87367		



ROUTE NUMBER	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1281	09-00648-00-BR	LASALLE	12	9
FED. ROAD DIST. NO. 7		ILLINOIS	PROJECT BRS-1281(103)	
JOB NO. C-93-064-08		CONTRACT NO. 87367		

70.00 60.00 50.00 40.00 30.00 20.00 10.00 C 10.00 20.00 30.00 40.00 50.00 60.00 70.00



70.00 60.00 50.00 40.00 30.00 20.00 10.00 C 10.00 20.00 30.00 40.00 50.00 60.00 70.00

B.M. - 1 Chisled square in top of North wingwall
 13' RI Sta 18+41 Elev. 158.95
 Existing Structure - is a RC slab deck bridge
 on closed concrete abutments, wingwalls,
 and handrails 1-span @ 25' 11"
 Salvage - None

ROUTE NUMBER	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1281	09-00648-00-BR	LASALLE	12	10

GENERAL NOTES

The cross sections and dimensions shown for precast units are a representation only. The span of precast units shall not be less than 28 feet and provide an opening of 185 sf below the elevation of 150.67. Cast-in-place dimensions shall be as shown unless otherwise directed by the Engineer.

Shop drawings for all precast unit fabrication and field installation, including headwalls, wingwalls, and wingwall anchors shall be submitted to the County Engineer in accordance with article 505.03 and approved prior to fabrication of precast units.

Precast Wingwalls, Wingwall Anchors, and Headwalls, shall be considered incidental to the unit price bid for the item "Three Sided Pre-Cast Concrete Structures".

The Pre-Cast 3 Sided Bridge Unit shall provide a min. width of 54'. The foundation design and reinforcement layout may change slightly to suit the precast units provided by the Contractor. Any changes in the Concrete or Reinforcement quantities shall be considered incidental. The proposed foundation design if altered, shall be certified, signed and sealed by an Illinois Licensed Structural Engineer.

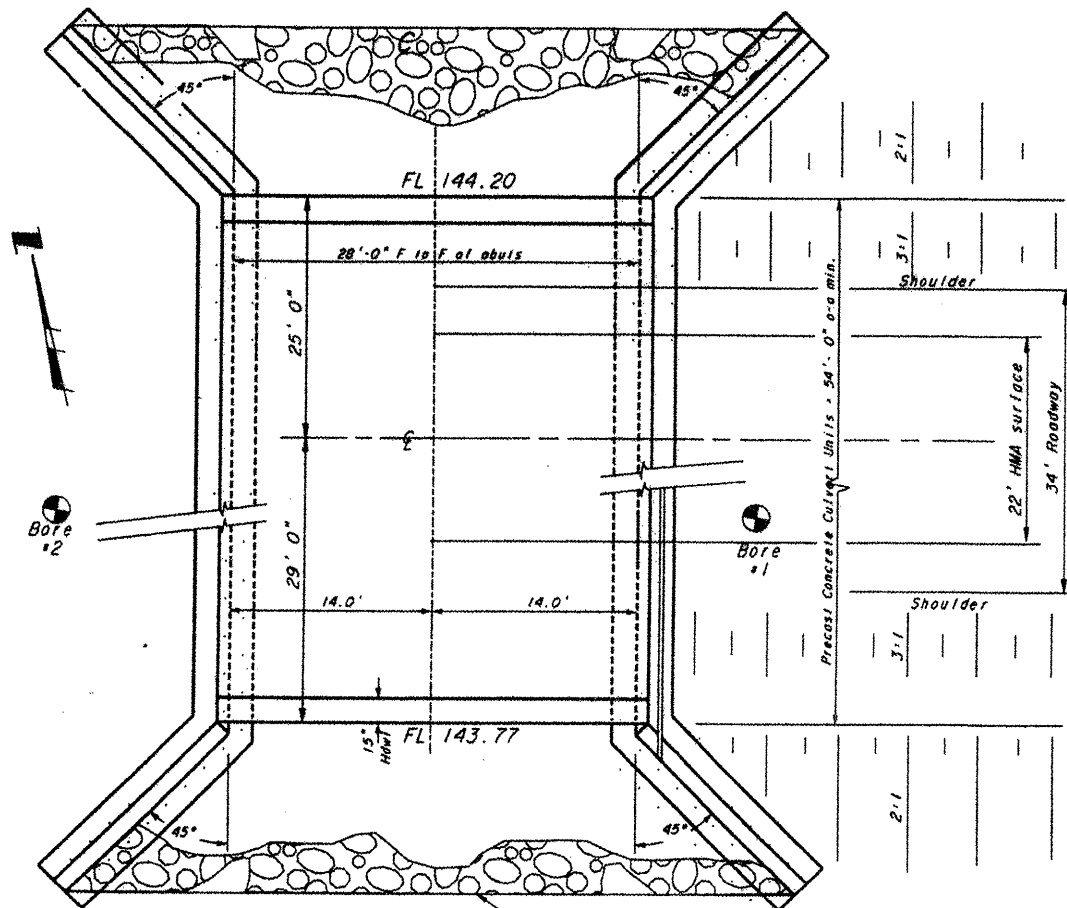
The footing design is based on the following reaction applied at 2'-6" above the bottom of the footing.

Bridge Footing
 RV=15.8 K @ 0 and 2.1 K @ 4' at E wall
 RH=1.3 K @ 0 and 0.5 K @ 4'

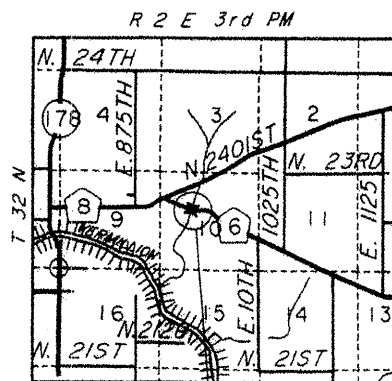
Wingwall Footing
 RV=10.9 K @ 0 at 1' behind the wall
 RH=3.0 K @ 0

The layout of the Stone Dumped Rip Rap may vary to suit conditions in the field as directed by the Engineer.
 See Sheet 11 for boring logs.

CONTRACT NO. 87567
 JOB NO. C-93-064-08



Limits of Stone Rip Rap CL A5 40' L1 @ RI placed in stream bed and slopes 24" thick



PROPOSED STRUCTURE LOCATION SKETCH

BILL OF MATERIAL

Item	Unit	Super	Sub.		Total
			Piers	Abut.	
Removal of Existing Structures	Each				1
Name Plates	Each				1
Stone Dumped Rip Rap CL A5	Tons			220	220
Porous Granular Embankment	Tons			1300	1300
3 Sided Prec. Conc. Structure	Ft			54	54
Filter Fabric For Rip Rap	SY			285	285
Concrete Structures	Cu.Yds			56	56
Reinforcement Bars	Pounds			2890	2890

WATERWAY INFORMATION

Drainage Area = 2.18 Low Grade Elev. = 159.29 @ Sta. 18+20

Flood	Freq. Yr.	Q C.F.S.	Opening S.F. Exist.	Prop.	Nat. H.W.E. Exist.	Prop.	Head - Ft. Exist.	Prop.	Headwater El. Exist.	Prop.
Design	30	914	164	185	150.67	0.24	0.19	150.91	150.86	
Base	100	1213	183	208	151.51	0.40	0.41	151.91	151.92	
Overlapping										
Max. Calc.	500	1892								

DESIGN SPECIFICATIONS

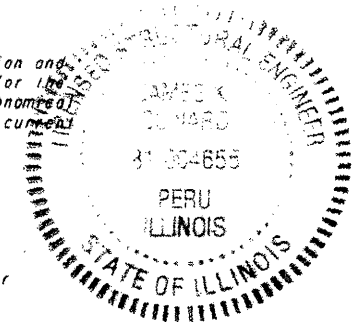
2002 AASHTO.
 HS20-44 Loading. Load Factor Design.
 Substructure Footings
 f'c = 3500 psi
 fy = 60,000 psi
 Max Allowable Soil Pressure = 8 ksi

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design load shown on the plans. The design is an economical one for the style of structure and complies with the current "AASHTO Standard Specifications for Highway Bridges".

Lawrence J. Kinzer 5/13/08 Date

These plans were prepared by me or by a full-time member of my staff working under my personal supervision

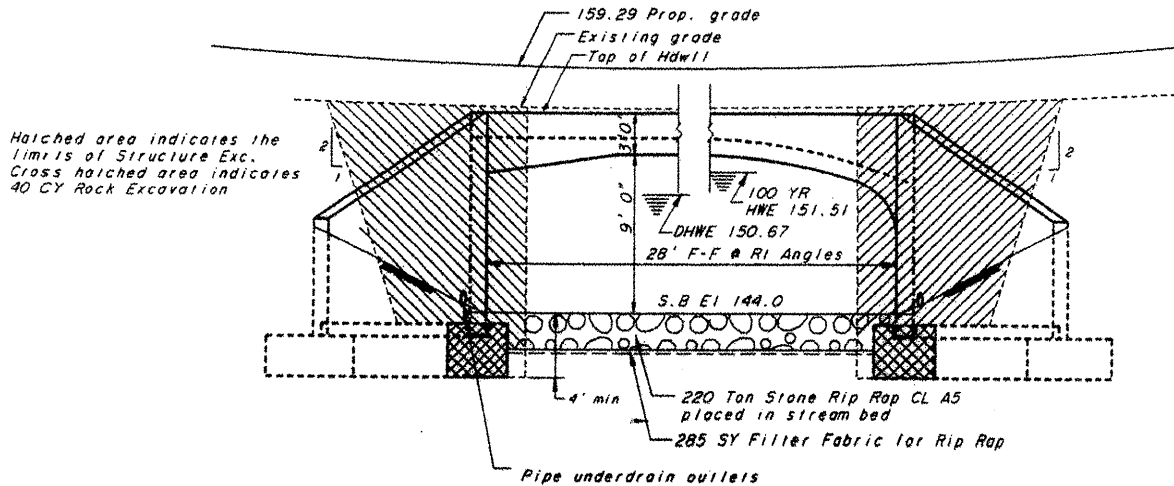
Lawrence J. Kinzer 5/15/08 Date
 Lawrence J. Kinzer
 La Salle County Engineer
 I.R.P.E. No. 62-40162
 Exp. Date 11-30-09



STATION 18+37
 SEC. 09-00648-00-BR BUILT 200.
 LASALLE COUNTY
 LOADING HS20
 STR. NO. 050-3592

LETTERING FOR NAME PLATE

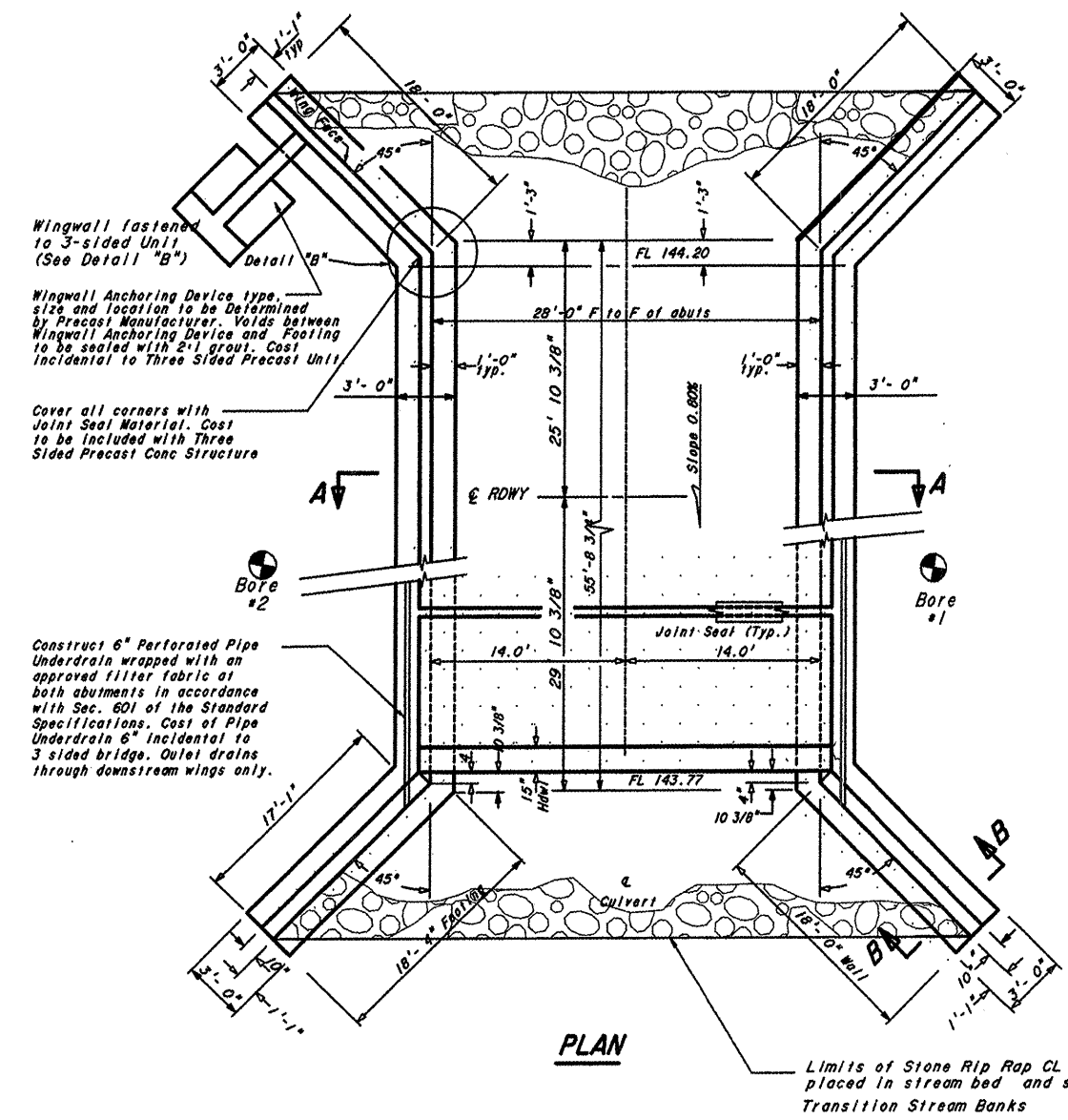
Locate Name Plate at the Southwest Corner of Structure (See Sid 515001-03)



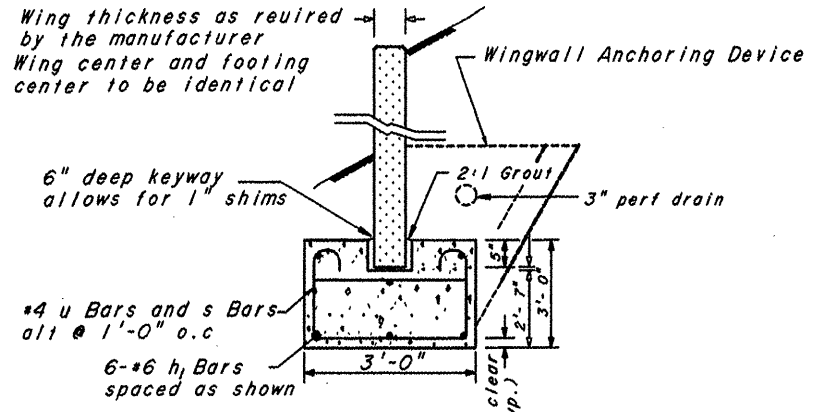
GENERAL PLAN & ELEVATION
 COUNTY HIGHWAY 6
 FAS 1281

ROUTE NUMBER	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1281	09-00648-00-BR	LASALLE	12	11
FED. ROAD DIST. NO.7	ILLINOIS	PROJECT BRS-1281(103)		

CONTRACT NO. 87367
JOB NO. C-93-064-08



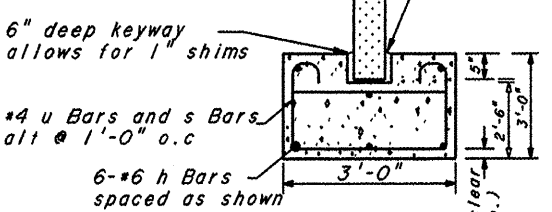
PLAN



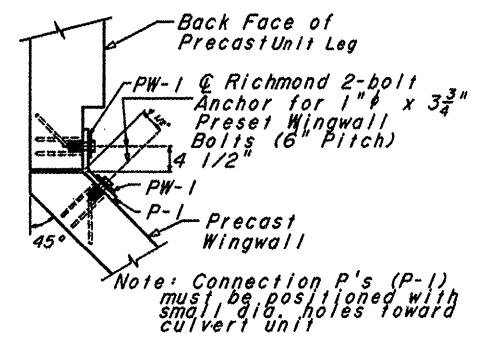
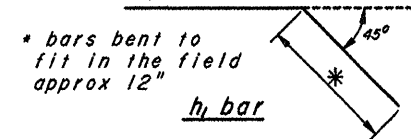
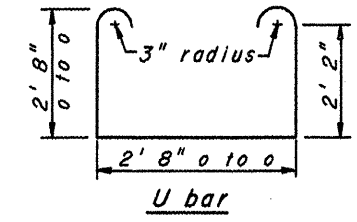
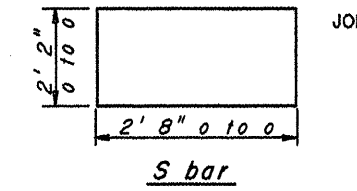
SECTION B-B

Note: The keyway width shall be determined by the precast unit width plus 3" each side to allow for grouting.

Precast deck unit stem thickness as required by the manufacturer
Stem center and footing center to be identical



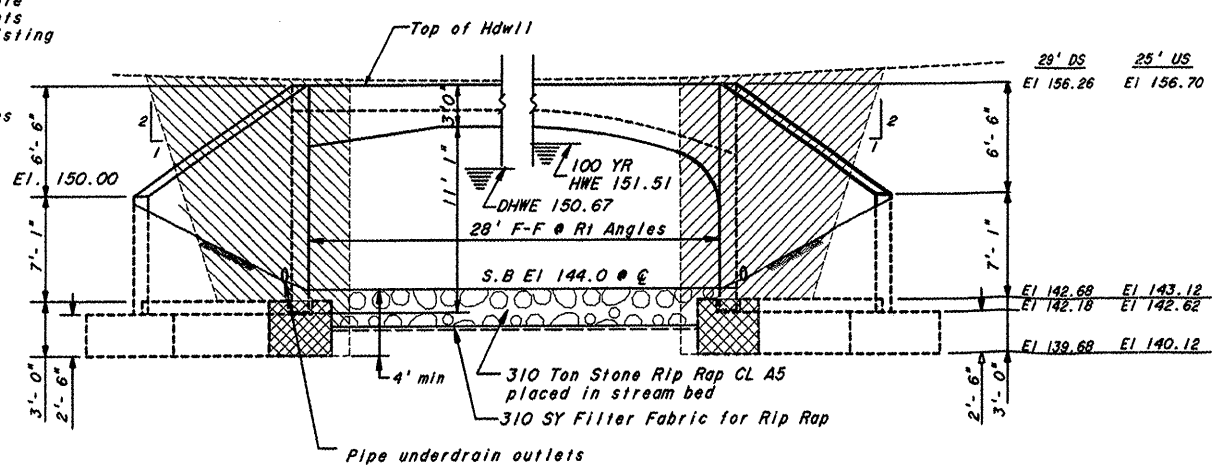
SECTION A-A



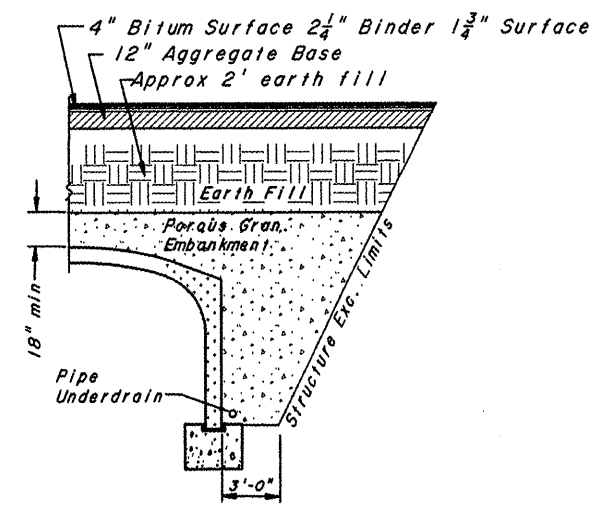
DETAIL "B"
(or alternate)

The Contractor shall excavate behind the existing abutments prior to removal of the existing structure.

Hatched area indicates the limits of Structure Exc. Cross hatched area indicates 40 CY Rock Excavation



END ELEVATION



BACKFILL DETAIL

BILL OF MATERIAL FOR ONE FOOTING

(Includes Footings for two Wingwalls)

Bar	No.	Size	Length	Shape
h	6	#6	55'-8"	—
h1	12	#5	19'-0"	—
s	45	#4	9'-8"	□
u	48	#4	12'-10"	□

Concrete Structures * 28.0 Cu.Yd.
Reinforcement Bars * 1445 Pounds

* see General Notes on sheet 9 regarding the footing design

3 SIDED BRIDGE DETAILS
COUNTY HIGHWAY 6
FAS 1281

Midwest Testing Services, Inc.
7705 Progress Blvd.
Peru, IL 61354

Client: LaSalle County Highway Department
Project Name: Deer Park Township Sec. 09-00648-00-BR
Project Site: LaSalle County, Illinois

Boring No. B-2
Surface Elev. 157.3
Auger Depth 31'
Start Date 03/10/07
Rotary Depth NA
Finish Date 03/10/07

Location: West abutment 6 S. of centerline of road

DEPTH ELEV. (35.3)	DEPTH Log	GRAPHIC Log	DESCRIPTION OF MATERIALS	DEPTH In feet	SAMPLES	DRILLED BY	REMARKS	
135.30	22		Very Dense Gray Shale	22		Jeff Sufanski Diedrich D-120		
134.30	23			23	9 SS		100 3"	9
133.30	24			24				
132.30	25			25	10 SS		100 2"	10
131.30	26			26				
130.30	27			27				
129.30	28			28	11 SS		100 2"	8
128.30	29			29				
127.30	30			30	12 SS		100 1"	8
126.30	31			31				
125.30	32			32				
124.30	33							
123.30	34							
122.30	35							
121.30	36							
120.30	37							
119.30	38							
118.30	39							
117.30	40							
116.30	41							

Groundwater Data: No groundwater encountered at time of subsurface investigation.
Comments: * Center of existing bridge deck as 157.5.

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Start Date 03/10/07
Rotary Depth NA
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Location: West abutment 6 S. of centerline of road

DEPTH ELEV. (35.3)	DEPTH Log	GRAPHIC Log	DESCRIPTION OF MATERIALS	DEPTH In feet	SAMPLES	DRILLED BY	REMARKS	
156.30	1		Stiff Brown Gravel, Clay And Gravely Clay (FILL)	1		Jeff Sufanski Diedrich D-120		
155.30	2			2				
154.30	3			3	1 SS		26	10
153.30	4			4				
152.30	5			5	2 SS		1.7 15	S 14
151.30	6			6				
150.30	7			7				
149.30	8			8	3 SS		21	13
148.30	9			9				
147.30	10			10	4 SS		3.7 29	S 14
146.30	11							
145.30	12							
144.30	13							
143.30	14							
142.30	15							
141.30	16							
140.30	17							
139.30	18							
138.30	19							
137.30	20							

Groundwater Data: No groundwater encountered at time of subsurface investigation.
Comments: * Center of existing bridge deck as 157.5.

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Client: LaSalle County Highway Department
Project Name: Deer Park Township Sec. 09-00648-00-BR
Project Site: LaSalle County, Illinois

Boring No. B-1
Surface Elev. 157.4
Auger Depth 31.5'
Start Date 03/10/07
Rotary Depth NA
Finish Date 03/10/07

Location: East abutment 6 S. of centerline of road

DEPTH ELEV. (35.3)	DEPTH Log	GRAPHIC Log	DESCRIPTION OF MATERIALS	DEPTH In feet	SAMPLES	DRILLED BY	REMARKS	
135.40	22		Very Dense Gray Shale	22		Jeff Sufanski Diedrich D-120		
134.40	23			23	9 SS		100 3"	10
133.40	24			24				
132.40	25			25	10 SS		100 3"	10
131.40	26			26				
130.40	27			27				
129.40	28			28	11 SS		100 4"	9
128.40	29			29				
127.40	30			30	12 SS		100 2"	8
126.40	31			31				
125.40	32			32				
124.40	33							
123.40	34							
122.40	35							
121.40	36							
120.40	37							
119.40	38							
118.40	39							
117.40	40							
116.40	41							

Groundwater Data: Static water level after auger removal 12' depth.
Comments: * Center of existing bridge deck as 157.5.

Midwest Testing Services, Inc.
7705 Progress Blvd.
Peru, IL 61354

Client: LaSalle County Highway Department
Project Name: Deer Park Township Sec. 09-00648-00-BR
Project Site: LaSalle County, Illinois

Boring No. B-1
Surface Elev. 157.4
Auger Depth 31.5'
Start Date 03/10/07
Rotary Depth NA
Finish Date 03/10/07

Location: East abutment 6 S. of centerline of road

DEPTH ELEV. (35.3)	DEPTH Log	GRAPHIC Log	DESCRIPTION OF MATERIALS	DEPTH In feet	SAMPLES	DRILLED BY	REMARKS	
156.40	1		Stiff Brown Gravel And Gravely Clay (FILL)	1		Jeff Sufanski Diedrich D-120		
155.40	2			2				
154.40	3			3	1 SS		18	12
153.40	4			4				
152.40	5			5	2 SS		23	10
151.40	6			6				
150.40	7			7				
149.40	8			8	3 SS		1.7 12	18
148.40	9			9				
147.40	10			10	4 SS		29	14
146.40	11							
145.40	12							
144.40	13							
143.40	14							
142.40	15							
141.40	16							
140.40	17							
139.40	18							
138.40	19							
137.40	20							

Groundwater Data: Static water level after auger removal 12' depth.
Comments: * Center of existing bridge deck as 157.5.