1-18-13 LETTING ITEM 040

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
510	120B-3	HANCOCK	38	1
	ILLINOIS	CONTRACT NO. 72B67		

PROJECT LOCATED 1.4 MILES NORTH OF US 136 IN THE CITY OF HAMILTON IN HANCOCK COUNTY, IL

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAP ROUTE 510 (IL ROUTE 96)
SECTION 120B-3
PROJECT ACF-0510(037)
STRUCTURE REPLACEMENT
HANCOCK COUNTY
C-96-027-08

FOR INDEX OF SHEETS, SEE SHEET NO. 2

EXISTING STRUCTURE NUMBER – S.N. 034-0029
PROPOSED STRUCTURE NUMBER – S.N. 034-2523

DESIGN DESIGNATION
MINOR ARTERIAL (NON-URBAN)
CLASS II TRUCK ROUTE
POSTED SPEED LIMIT = 55 MPH

DESCRIPTION OF WORK:
REMOVAL OF S.N. 034-0029 CARRYING FAP ROUTE 510 (IL ROUTE 96) OVER INLET DITCH, AND CONSTRUCTION OF A TRIPLE 12' X 8' BOX CULVERT (S.N. 034-2523). APPROACH ROADWAY IMPROVEMENTS ARE ALSO INCLUDED.

HORIZONTAL ALIGNMENT 0 100' 200'
ROADWAY PLAN 0 20' 40'
ROADWAY PROFILE HORIZONTAL 0 20' 40'
ROADWAY PROFILE VERTICAL 0 5' 10'
CROSS SECTIONS HORIZONTAL 0 10' 20'
CROSS SECTIONS VERTICAL 0 5' 10'

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

MONTEBELLO TOWNSHIP, SECTION 19

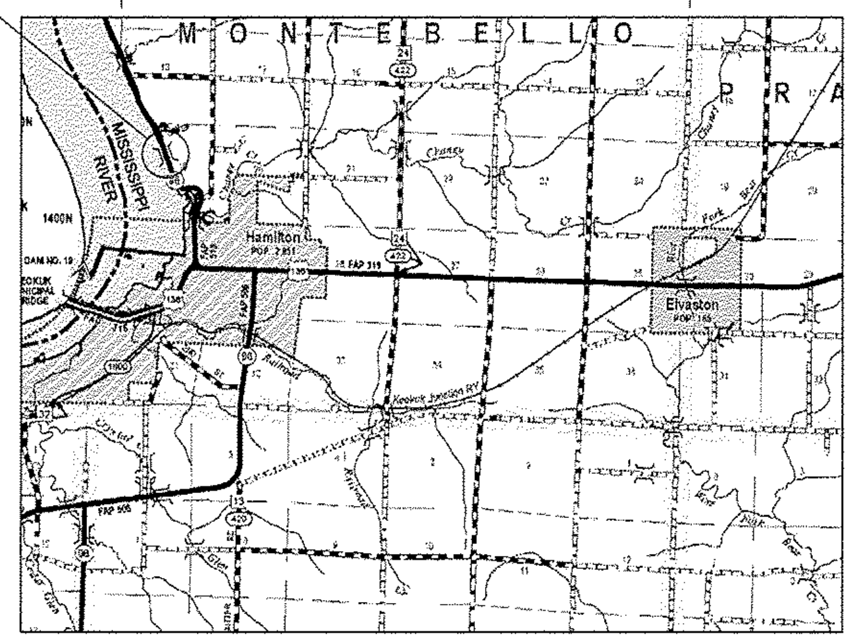
ADT: 2,750(2011); 3,300(2031)
SU: 3.1%
MU: 0.4%

CONTRACT NO. 72B67

TEAM ENGINEER: JULIET SHOULTZ (217) 785-2739 SENIOR TEAM ENGINEER: VINCE MADONIA (217) 785-9046

PROJECT LOCATION
STATION 1031+00 TO
STATION 1034+50

R9W R8W 4th P.M. R8W R7W



0 1 MI. 2 MI. 3 MI.

GROSS LENGTH = 350.00 FT. = 0.066 MILE
NET LENGTH = 350.00 FT. = 0.066 MILE

D-96-027-08

LOCATION OF SECTION INDICATED THUS:-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED October 23 20 12
Roger L. Driskell
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
Dec 7 20 12
John D. Baranzelli, P.E. /BL
acting ENGINEER OF DESIGN AND ENVIRONMENT
Dec 7 20 12
William R. Frey /BL
acting DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

SHIRAZ TARIQUE
062-064219
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

SEAL

PREPARED BY:
LIN ENGINEERING, LTD.
WESTMONT, ILLINOIS 60559
(630) 323-5168

SHIRAZ TARIQUE, P.E.
ILLINOIS REGISTERED ENGINEER NO. 062-064219
REGISTRATION EXPIRES NOV. 30, 2013

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

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GENERAL NOTES:

THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS. SEEDING CLASS 2 SHALL BE USED.

FERTILIZER SHALL BE APPLIED TO ALL DISTURBED AREAS AND INCORPORATED INTO THE SEEDBED PRIOR TO SEEDING OR PLACEMENT OF SOD AT THE RATE SPECIFIED IN SECTIONS 250 AND 252 OF THE STANDARD SPECIFICATIONS.

THE LOCATIONS OF THOSE BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.20 OF THE STANDARD SPECIFICATIONS. THE J.U.L.I.E NUMBER IS 800-892-0123. A MINIMUM OF FORTY-EIGHT HOURS ADVANCED NOTICE IS REQUIRED.

ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OUTSIDE THE LIMITS OF 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 CONSIDERED INCLUDED IN THE COST OF EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE RESIDENT ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER AND AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. IF THE ENGINEER DECIDES TO HAVE THE CONTRACTOR RESET THE MONUMENT, THIS WORK SHALL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

ALL ELEVATIONS SHOWN IN THE PLANS ARE NAVD88 DATUM.

ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE DEPARTMENT AS SHOWN IN THE PLANS.

THE COST OF REMOVAL OF ANY EXISTING SIGNS, OR OTHER OBSTRUCTIONS WHICH INTERFERE WITH CONSTRUCTION WILL BE CONSIDERED INCLUDED IN THE COST OF EARTH EXCAVATION.

THE THICKNESS OF THE HMA MIXTURE SHOWN ON THE PLANS IS THE NORMAL THICKNESS. DEVIATIONS FROM THE NORMAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA MIXTURE IS PLACED.

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

EXISTING PAVEMENT DAMAGED DUE TO THE CONTRACTOR'S OPERATIONS, AND NOT OTHERWISE NECESSARY TO REPLACE, SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.

THE EXISTING ROAD SIGNS AND MAILBOXES THAT INTERFERE WITH CONSTRUCTION SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. AFTER THE CONSTRUCTION IS COMPLETED, THE CONTRACTOR WILL REPLACE THE SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

GENERAL NOTES (CONT'D):

STRUCTURE EXCAVATION SHALL BE INCLUDED IN THE CONTRACT COST PER FOOT FOR PRECAST CONCRETE BOX CULVERTS 12' x 8'.

THE FOLLOWING APPLICATION RATES WERE USED FOR QUANTITY CALCULATIONS.

HOT-MIX ASPHALT SURFACE COURSE	0.056 TON / SQ YD / IN
LEVELING BINDER	0.056 TON / SQ YD / IN
BITUMINOUS MATERIALS (PRIME COAT)	0.00038 TON / SQ YD
NITROGEN FERTILIZER NUTRIENT	90 LB / ACRE
PHOSPHOROUS FERTILIZER NUTRIENT	90 LB / ACRE
POTASSIUM FERTILIZER NUTRIENT	90 LB / ACRE
TEMPORARY EROSION CONTROL SEEDING	400 LB / ACRE
AGGREGATE SHOULDERS, TYPE B	1.89 TON/CU YD
RIPRAP	1.50 TON/CU YD
AGRICULTURAL GROUND LIMESTONE	2.0 TON/ACRE

COMMITMENTS:

THE FIELD/RESIDENT ENGINEER SHALL CONTACT STUDIES & PLANS CONCERNING ANY MAJOR PLAN CHANGES TO MAKE SURE NO PREVIOUS COMMITMENTS (NOT LISTED) WERE MADE AFFECTING THE DESIGN AND ALLOW AN IMPROVED DESIGN FOR FUTURE PROJECTS.

DISTRICT SIX

EXAMINED 10/11 20 12
OPERATIONS ENGINEER

EXAMINED Oct 11 20 12
PROJECT IMPLEMENTATION ENGINEER

EXAMINED Oct. 11 20 12
PROGRAM DEVELOPMENT ENGINEER

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT.

Mixture Use(s):	HOT-MIX ASPHALT SURFACE COURSE, MIX C, N50	LEVEL BINDER (MACHINE METHOD), N50	HOT-MIX ASPHALT BASE COURSE/WIDENING, 10"	INCIDENTAL HOT-MIX ASPHALT SURFACE COURSE AND HMA SHOULDER (TOP LIFT)	HOT-MIX ASPHALT SHOULDER (LOWER LIFTS)
PG:	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 58-22
Design Air Voids	4.0% @ N DESIGN = 50	4.0% @ N DESIGN = 50	4.0% @ N DESIGN = 50	4.0% @ N DESIGN = 50	2.0% @ N DESIGN = 30
Mixture Composition (Gradation Mixture)	IL 9.5 OR 12.5	IL 9.5	IL 19.0	IL 9.5 OR 12.5	BAM
Friction Aggregate	MIX "C"	N/A	N/A	MIX "C"	N/A

				CONSTRUCTION CODE				
				ROADWAY	STRUCTURAL			
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0011		
	20100500	TREE REMOVAL, ACRES	ACRE	0.5	0.5			
	20200100	EARTH EXCAVATION	CU YD	435	435			
	20200200	ROCK EXCAVATION	CU YD	50	50			
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	50	50			
	20400800	FURNISHED EXCAVATION	CU YD	115	115			
	20800150	TRENCH BACKFILL	CU YD	47	47			
*	25000200	SEEDING, CLASS 2	ACRE	0.25	0.25			
*	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	22.5	22.5			
*	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	22.5	22.5			
*	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	22.5	22.5			
*	25000700	AGRICULTURAL GROUND LIMESTONE	TON	0.5	0.5			
*	25100115	MULCH METHOD, 2	ACRE	0.25	0.25			
	25100630	EROSION CONTROL BLANKET	SQ YD	451	451			
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	100	100			

*SPECIALTY ITEM

LIN ENGINEERING, LTD. Consulting Engineers Westmont, Illinois	USER NAME = Plotted by Roadways7	DESIGNED - SGL	REVISED -
		DRAWN - SGL	REVISED -
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - FML	REVISED -
	PLOT DATE = 10/19/2012	DATE - 9/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 96 OVER INLET DITCH
SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 01 OF 06 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
510	120B-3	HANCOCK	38	3
		CONTRACT NO. 72B67		

FED. ROAD DIST. NO. 6 | ILLINOIS | FED. AID PROJECT

				CONSTRUCTION CODE			
				ROADWAY	STRUCTURAL		
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004	0011		
28000400	PERIMETER EROSION BARRIER	FOOT	224	224			
28000500	INLET AND PIPE PROTECTION	EACH	2	2			
28100807	STONE DUMPED RIPRAP, CLASS A4	TON	682	563	119		
28200200	FILTER FABRIC	SQ YD	373	262	111		
31100910	SUBBASE GRANULAR MATERIAL, TYPE A 12"	SQ YD	472	472			
35101400	AGGREGATE BASE COURSE, TYPE B	TON	163	163			
35501324	HOT-MIX ASPHALT BASE COURSE, 10"	SQ YD	472	472			
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	0.7	0.7			
40600300	AGGREGATE (PRIME COAT)	TON	1.5	1.5			
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	32	32			
40600895	CONSTRUCTING TEST STRIP	EACH	2	2			
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	160	160			
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	79	79			
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	45	45			

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Consulting Engineers
Westmont, Illinois

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 96 OVER INLET DITCH
SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 02 OF 06 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
510	1208-3	HANCOCK	38	4
		CONTRACT NO. 72B67		

FED. ROAD DIST. NO. 6 | ILLINOIS | FED. AID PROJECT

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE ROADWAY 0004	STRUCTURAL 0011		
42000300	PORTLAND CEMENT CONCRETE PAVEMENT 8"	SQ YD	179	179			
42001300	PROTECTIVE COAT	SQ YD	57	57			
44000100	PAVEMENT REMOVAL	SQ YD	83	83			
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SQ YD	301	301			
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	76	76			
44000400	GUTTER REMOVAL	FOOT	214	214			
44004250	PAVED SHOULDER REMOVAL	SQ YD	13	13			
44200180	PAVEMENT PATCHING, TYPE II, 15 INCH	SQ YD	10	10			
44300200	STRIP REFLECTIVE CRACK CONTROL TREATMENT	FOOT	700	700			
48101200	AGGREGATE SHOULDERS, TYPE B	TON	28	28			
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	188	188			
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1		
50105220	PIPE CULVERT REMOVAL	FOOT	62	62			
50901760	PIPE HANDRAIL	FOOT	70		70		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE ROADWAY 0004	STRUCTURAL 0011		
51500100	NAME PLATES	EACH	1		1		
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2		2		
54011208	PRECAST CONCRETE BOX CULVERTS 12' X 8'	FOOT	240		240		
542A1063	PIPE CULVERTS, CLASS A, TYPE 2 18"	FOOT	125	125			
54213453	END SECTIONS 18"	EACH	2	2			
60240305	INLETS, TYPE B, TYPE 10 FRAME AND GRATE	EACH	1	1			
60262700	INLETS TO BE RECONSTRUCTED	EACH	1	1			
60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	1	1			
60500060	REMOVING INLETS	EACH	1	1			
60602800	CONCRETE GUTTER, TYPE B	FOOT	173	173			
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	200	200			
* 63000025	STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES	FOOT	37.5	37.5			
63200310	GUARDRAIL REMOVAL	FOOT	138	138			
63500105	DELINEATORS	EACH	4	4			

* SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE ROADWAY 0004	CONSTRUCTION CODE STRUCTURAL 0011		
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	4	4			
66700305	PERMANENT SURVERY MARKERS, TYPE II	EACH	2	2			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6			
67100100	MOBILIZATION	L SUM	1	1			
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1			
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1			
70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	1			
~~70103815~~	~~TRAFFIC CONTROL SURVEILLANCE~~	~~CAL DA~~	~~24~~	~~24~~			
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	12	12			
* 78001120	PAINT PAVEMENT MARKING - LINE 5"	FOOT	1400	1400			
78200410	GUARDRAIL MARKERS, TYPE A	EACH	4	4			
78300100	PAVEMENT MARKING REMOVAL	SQ FT	600	600			
X0301852	DEWATERING STRUCTURE NO. 1	EACH	1		1		
XZ054500	ROCK FILL (SPECIAL)	CU YD	3295		3295		

* SPECIALTY ITEM

LIN ENGINEERING, LTD.
Consulting Engineers
Westmont, Illinois

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DATE - 9/2012

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 96 OVER INLET DITCH
SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 05 OF 06 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
510	120B-3	HANCOCK	38	7

CONTRACT NO. 72B67

FED. ROAD DIST. NO. 6 | ILLINOIS | FED. AID PROJECT

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE ROADWAY 0004	STRUCTURAL 0011		
Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	22		22		
Z0004544	HOT-MIX ASPHALT DRIVEWAY PAVEMENT REMOVAL	SQ YD	74	74			
Z0004552	APPROACH SLAB REMOVAL	SQ YD	40	40			
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1			
* Z0016702	DETOUR SIGNING	L SUM	1	1			
Z0023602	GRANULAR CULVERT BACKFILL	CU YD	873		873		
Z0054517	ROCK FILL - FOUNDATION	TON	6912		6912		

* SPECIALTY ITEM

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Consulting Engineers
Westmont, Illinois

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REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 96 OVER INLET DITCH
SUMMARY OF QUANTITIES

SCALE: NONE | SHEET NO. 06 OF 06 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
510	120B-3	HANCOCK	38	8

CONTRACT NO. 72867

FED. ROAD DIST. NO. 6 | ILLINOIS | FED. AID PROJECT

TREE REMOVAL, ACRES

STA	STA	OFFSET	AREA (SQ FT)	AREA (ACRE)
1031+47	1032+28	RT	2156.6	0.05
1031+37	1032+47	LT	5733.0	0.13
1032+53	1033+28	LT	3666.6	0.08
1032+58	1034+50	RT	4647.3	0.11
1034+00	1034+38	LT	496.4	0.01
			TOTAL	0.38
			ROUNDED TOTAL	0.5

EARTH EXCAVATION

Jobsite	435	CU YD

ROCK EXCAVATION

Jobsite	50	CU YD

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL

Jobsite	50	CU YD

FURNISHED EXCAVATION

Jobsite	115	CU YD

TRENCH BACKFILL

STA	STA	OFFSET	AVG DEPTH (FT)	LENGTH (FT)	CU YD PER FT	VOLUME (CU YD)
1034+25	1034+25	CL	3.133	26.00	0.248	6.44
1032+75	1033+54	LT	9.50	25.85	1.540	39.81
					TOTAL	46.25
					ROUNDED TOTAL	47

SEEDING, CLASS 2

STA	STA	OFFSET	AREA (SQ FT)	AREA (ACRE)
1030+84	1031+27	LT	292.98	0.01
1031+07	1031+09	LT	1.3	0.00
1031+37	1033+28	LT	6117.30	0.14
1033+78	1034+50	LT	1404.20	0.03
			TOTAL	0.18
			ROUNDED TOTAL	0.25

NITROGEN FERTILIZER NUTRIENT

SEEDING, CLASS 2	0.25	ACRE
Application Rate: 90 lb/acre		
Quantity	22.5	POUND

PHOSPHORUS FERTILIZER NUTRIENT

SEEDING, CLASS 2	0.25	ACRE
Application Rate: 90 lb/acre		
Quantity	22.5	POUND

POTASSIUM FERTILIZER NUTRIENT

SEEDING, CLASS 2	0.25	ACRE
Application Rate: 90 lb/acre		
Quantity	22.5	POUND

AGRICULTURAL GROUND LIMESTONE

Jobsite	0.5	TON

MULCH, METHOD 2

STA	STA	OFFSET	AREA (SQ FT)	AREA (ACRE)
1031+07	1031+09	LT	1.3	0.00
1031+76	1033+28	LT	3761.6	0.09
			TOTAL	0.09
			ROUNDED TOTAL	0.25

EROSION CONTROL BLANKET

STA	STA	OFFSET	AREA (SQ FT)	AREA (SQ YD)
1030+84	1031+27	LT	292.98	32.55
1031+37	1032+04	RT	2355.7	261.75
1033+78	1034+50	LT	1404.20	156.02
			TOTAL	450.32
			ROUNDED TOTAL	451

TEMPORARY EROSION CONTROL SEEDING

SEEDING, CLASS 2	0.25	ACRE
Application Rate: 100 lb/acre x 4 applications		
Quantity	100	POUND

PERIMETER EROSION BARRIER

STA	STA	OFFSET	LENGTH (FT)
1030+84	1031+00	LT	25.00
1031+38	1031+95	LT	58.38
1032+65	1033+28	LT	80.57
1033+78	1034+38	LT	59.72
		TOTAL (FT)	223.67
		ROUNDED TOTAL	224

INLET AND PIPE PROTECTION

STA	OFFSET		EACH
1033+55	29.0	LT	1
1034+25	12.5	LT	1
		TOTAL	2

STONE DUMPED RIPRAP, CLASS A4

STA	STA	OFFSET	AREA (SQ FT)	AREA (SQ YD)	WT (TON)
1031+95	1032+93	LT	2357.6	261.95	140.4
1031+67	1034+40	RT	7086.4	787.38	422.0
				SUBTOTAL	563
				STRUCTURE	119
				ROUNDED TOTAL	682

FILTER FABRIC

STA	STA	OFFSET	AREA (SQ FT)	AREA (SQ YD)
1031+95	1032+93	LT	2357.6	261.95
			SUBTOTAL	262
			STRUCTURE	111
			TOTAL	373

SUBBASE GRANULAR MATERIAL, TYPE A 12"

STA	STA	OFFSET	AREA (SQ FT)	AREA (SQ YD)
1031+75	1033+52	CL	4248.0	472.0
			TOTAL	472

AGGREGATE BASE COURSE, TYPE B

STA	STA	OFFSET	AREA (SQ FT)	AREA (SQ YD)	WT (TON)
1031+09	1031+81	LT	2062.0	229.1	91.6
1033+24	1034+21	LT	1610.5	178.9	71.6
				TOTAL	163

HOT-MIX ASPHALT BASE COURSE, 10"

STA	STA	OFFSET	AREA (SQ FT)	AREA (SQ YD)
1031+75	1033+52	CL	4248.0	472.0
			TOTAL	472

BITUMINOUS MATERIALS (PRIME COAT)

STA	STA	OFFSET	AREA (SQ FT)	AREA (SQ YD)	WT. (TON)
1031+00	1034+50	CL	8400.0	933.3	0.35
				2 Applications	0.7
				TOTAL	0.7

AGGREGATE (PRIME COAT)

STA	STA	OFFSET	AREA (SQ FT)	AREA (SQ YD)	WT. (TON)
1031+09	1031+81	LT	2062.0	229.1	0.46
1031+75	1033+52	CL	4248.0	472.0	0.94
				ROUNDED TOTAL	1.5

LEVELING BINDER (MACHINE METHOD), N50

STA	STA	OFFSET	AREA (SQ FT)	AREA (SQ YD)	DEPTH (IN)	WT. (TON)
1031+30	1034+20	CL	6960.0	773.3	0.75	32.48
					ROUNDED TOTAL	32

CONSTRUCTING TEST STRIP

Jobsite	2	EACH

HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

STA	STA	OFFSET	AREA (SQ FT)	AREA (SQ YD)
1031+00	1031+30	CL	720.0	80.0
1034+20	1034+50	CL	720.0	80.0
			TOTAL	160

HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50

STA	STA	OFFSET	AREA (SQ FT)	AREA (SQ YD)	DEPTH (IN)	WT. (TON)
1031+00	1034+50	CL	8400.0	933.3	1.5	78.4
					ROUNDED TOTAL	79

INCIDENTAL HOT-MIX ASPHALT SURFACING

STA	STA	OFFSET	AREA (SQ FT)	AREA (SQ YD)	DEPTH (IN)	WT. (TON)
1031+09	1031+81	LT	2062.0	229.1	3.5	44.9
					ROUNDED TOTAL	45

PORTLAND CEMENT CONCRETE PAVEMENT 8"

STA	STA	OFFSET	AREA (SQ FT)	AREA (SQ YD)
1033+24	1034+21	LT	1610.5	178.9
			ROUNDED TOTAL	179

PROTECTIVE COAT

STA	STA	OFFSET	LENGTH (FT)	AREA (SQ FT)	AREA (SQ YD)
1031+00	1032+11	LT	131.51	443.6	49.3
1033+13	1033+25	LT	12.00	21.1	2.3
1034+21	1034+50	LT	29.04	50.8	5.6
				ROUNDED TOTAL	57

PAVEMENT REMOVAL

STA	STA	OFFSET	AREA (SQ FT)	AREA (SQ YD)
1031+75	1032+00	CL	600.0	66.7
1033+46	1033+52	CL	144.0	16.0
			TOTAL	83

HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"

STA	STA	OFFSET	AREA (SQ FT)	AREA (SQ YD)
1031+30	1031+75	CL	1080.0	120.0
1033+52	1034+20	LT	1632.0	181.3
			ROUNDED TOTAL	301

DRIVEWAY PAVEMENT REMOVAL

STA	STA	OFFSET	AREA (SQ FT)	AREA (SQ YD)
1033+29	1034+21	LT	589.7	65.5
1033+42	1034+12	LT	92.3	10.3
			ROUNDED TOTAL	76

GUTTER REMOVAL

STA	STA	OFFSET	LENGTH (FT)
1031+00	1032+06	LT	105.9
1033+42	1034+50	LT	108.2
		ROUNDED TOTAL	214

PAVED SHOULDER REMOVAL

STA	STA	OFFSET	AREA (SQ FT)	AREA (SQ YD)
1031+75	1032+00	RT	100	11.1
1033+46	1033+52	RT	19	2.1
			ROUNDED TOTAL	13

PAVEMENT PATCHING, TYPE II 15 INCH

STA	STA	OFFSET	AREA (SQ FT)	AREA (SQ YD)
1034+25	1034+25	CL	84.0	9.3
			ROUNDED TOTAL	10

STRIP REFLECTIVE CRACK CONTROL TREATMENT

Jobsite	700	FOOT

AGGREGATE SHOULDERS, TYPE B

STA	STA	OFFSET	AREA (SQ FT)	AREA (SQ YD)	DEPTH (IN)	VOL (CU YD)	WT (TON)
1031+50	1033+87.50	RT	1459.1	162.1	1.63	7.3	13.8
1031+51	1032+05	LT	790.3	87.8	1.63	4.0	7.5
1032+06	1033+32	LT	650.4	72.3	1.63	3.3	6.2
						ROUNDED TOTAL	28

HOT-MIX ASPHALT SHOULDERS, 8"

STA	STA	OFFSET	AREA (SQ FT)	AREA (SQ YD)
1031+75	1033+52	RT	708.0	78.7
1032+00	1033+32	LT	986.0	109.6
			TOTAL	188

PIPE CULVERT REMOVAL

STA	STA	OFFSET	LENGTH (FT)
1032+01	1032+05	LT	27.1
1033+21	1033+54	LT	34.7
		ROUNDED TOTAL	62

PIPE CULVERTS, CLASS A, TYPE 2 18"

STA	STA	OFFSET	LENGTH (FT)
1032+75	1033+54	LT	85.0
1034+25	1034+25	RT	40.0
		TOTAL	125

END SECTIONS 18"

STA	OFFSET	EACH
1032+74	LT	1
1034+25	RT	1
	TOTAL	2

INLETS, TYPE B, TYPE 10 FRAME AND GRATE

STA	OFFSET LT	EACH
1034+25	12.56'	1
	TOTAL	1

INLETS TO BE RECONSTRUCTED

STA	OFFSET	EACH
1033+54	LT	1
	TOTAL	1

FRAMES AND LIDS, TYPE 1, OPEN LID

STA	OFFSET LT	EACH
1033+54.76	54.76'	1
	TOTAL	1

REMOVING INLETS

STA	OFFSET	EACH
1032+01	LT	1
	TOTAL	1

CONCRETE GUTTER, TYPE B

STA	STA	OFFSET	LENGTH (FT)
1031+00	1032+11	LT	131.51
1033+13	1033+25	LT	12.00
1034+21	1034+50	LT	29.04
		ROUNDED TOTAL	173

STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS

STA	STA	OFFSET	LENGTH (FT)
1031+50	1032+25	RT	75.0
1032+62.50	1033+87.5	RT	125.0
		TOTAL	200

STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES

STA	STA	OFFSET	LENGTH (FT)
1032+25	1032+62	RT	37.5
		ROUNDED TOTAL	37.5

GUARDRAIL REMOVAL

STA	STA	OFFSET	LENGTH (FT)
1031+50	1032+05	RT	55
1031+90	1032+05	LT	15
1033+47	1033+87.50	RT	40.5
1033+42	1033+69	LT	27.5
		ROUNDED TOTAL	138

DELINEATORS

Jobsite	4	EACH

FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS

Jobsite	4	EACH

PERMANENT SURVEY MARKERS, TYPE II

Jobsite	2	EACH

ENGINEER'S FIELD OFFICE, TYPE A

Jobsite	6	CAL MO

MOBILIZATION

Jobsite	1	L SUM

TRAFFIC CONTROL AND PROTECTION, STANDARD 701201

Jobsite	1	L SUM

TRAFFIC CONTROL AND PROTECTION, STANDARD 701306

Jobsite	1	L SUM

TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21

Jobsite	1	L SUM

TRAFFIC CONTROL SURVEILLANCE

Jobsite	24	CAL DA

CHANGEABLE MESSAGE SIGN

Jobsite	12	CAL MO

PAINT PAVEMENT MARKING - LINE 5"

STA	STA	OFFSET	TYPE	LENGTH (FT)
1031+00	1034+50	12.0' LT	SOLID WHITE	350.0
1031+00	1034+50	CENTERLINE	DBL YELLOW	700.0
1031+00	1034+50	12.0' RT	SOLID WHITE	350.0
			ROUNDED TOTAL	1400

GUARDRAIL MARKERS, TYPE A

STA	STA	OFFSET	EACH
1031+56	1033+90.00	RT	4
		TOTAL	4

PAVEMENT MARKING REMOVAL

Jobsite	600	SQ FT

HOT-MIX ASPHALT DRIVEWAY PAVEMENT REMOVAL

STA	STA	OFFSET	AREA (SQ FT)	AREA (SQ YD)
1031+09	1031+54	LT	663.9	73.8
			ROUNDED TOTAL	74

APPROACH SLAB REMOVAL

STA	STA	OFFSET	AREA (SQ FT)	AREA (SQ YD)
1032+00	1032+06	CL	186.0	20.7
1033+38	1033+46	CL	171.0	19.0
			ROUNDED TOTAL	40

CONSTRUCTION LAYOUT

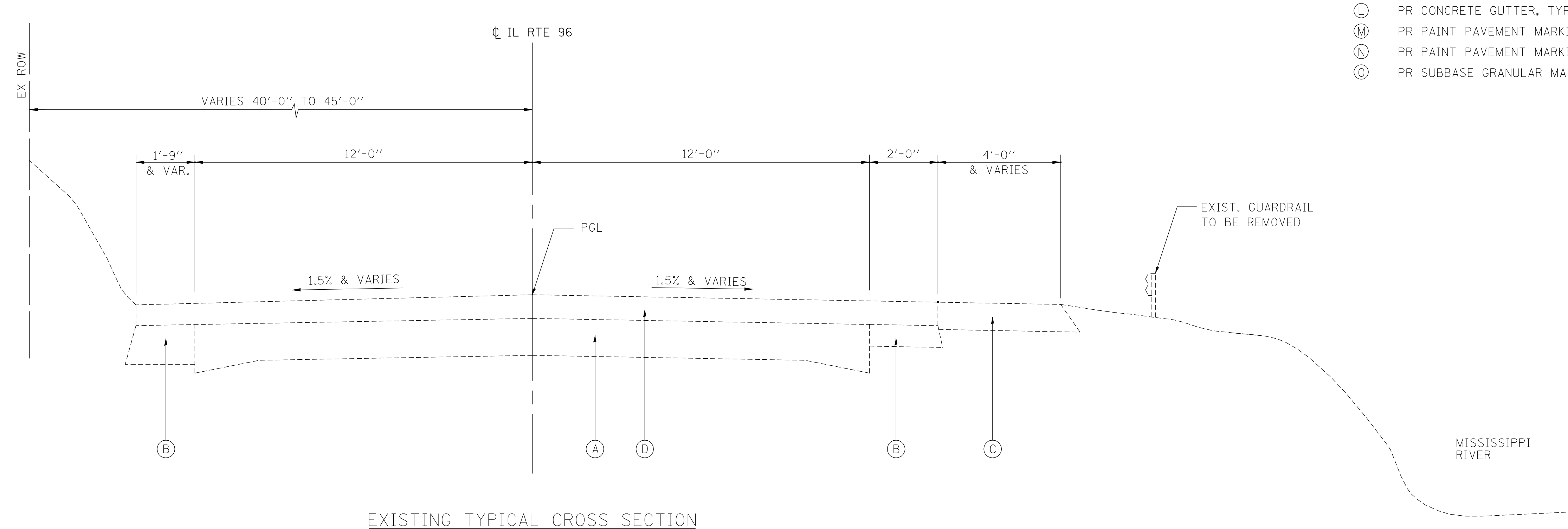
Jobsite	1	L SUM

DETOUR SIGNING

Jobsite	1	L SUM

LEGEND

- (A) EX PCC PAVEMENT, 9-6-9
- (B) EX HMA BASE COURSE WIDENING, 9"
- (C) EX HMA SHOULDER, ±8"
- (D) EX BITUMINOUS SURFACE, ±6"
- (E) PR HMA SHOULDER, 8"
- (F) PR HMA BASE COURSE, 10"
- (G) PR LEVELING BINDER (MACHINE-METHOD), N50, 3/4" & VAR.
- (H) PR HMA SURFACE COURSE, MIX "C", N50, 1 1/2"
- (I) PR AGGREGATE SHOULDERS, TYPE B
- (J) PR STONE DUMPED RIPRAP, CLASS A4, VAR. DEPTH (18" MIN.)
- (K) PR GUARDRAIL (SEE PLAN SHEETS FOR TYPES & LIMITS)
- (L) PR CONCRETE GUTTER, TYPE B
- (M) PR PAINT PAVEMENT MARKING- LINE 5", WHITE
- (N) PR PAINT PAVEMENT MARKING- LINE 5", DOUBLE YELLOW
- (O) PR SUBBASE GRANULAR MATERIAL, TYPE A 12"



EXISTING TYPICAL CROSS SECTION

STA. 1031+00.00 TO STA. 1032+00.00
STA. 1033+46.00 TO STA. 1034+50.00
LOOKING SOUTH

LIN ENGINEERING,LTD. Consulting Engineers Westmont, Illinois	USER NAME = Plotted by Roadways7	DESIGNED - SGL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 96 OVER INLET DITCH TYPICAL SECTIONS	F.A.P. RTE. 510 / SECTION 120B-3 / COUNTY HANCOCK / TOTAL SHEETS 38 / SHEET NO. 11
		DRAWN - SGL	REVISED -			CONTRACT NO. 72B67
	PLOT SCALE = 40.0000 ' / IN.	CHECKED - FML	REVISED -		SCALE: NONE / SHEET NO. 01 OF 03 SHEETS / STA. TO STA.	FED. ROAD DIST. NO. 6 / ILLINOIS / FED. AID PROJECT
	PLOT DATE = 10/19/2012	DATE - 9/2012	REVISED -			

LEGEND

- (A) EX PCC PAVEMENT, 9-6-9
- (B) EX HMA BASE COURSE WIDENING, 9″
- (C) EX HMA SHOULDER, ±8″
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- (E) PR HMA SHOULDER, 8″
- (F) PR HMA BASE COURSE, 10″
- (G) PR LEVELING BINDER (MACHINE-METHOD), N50, 3/4″ & VAR.
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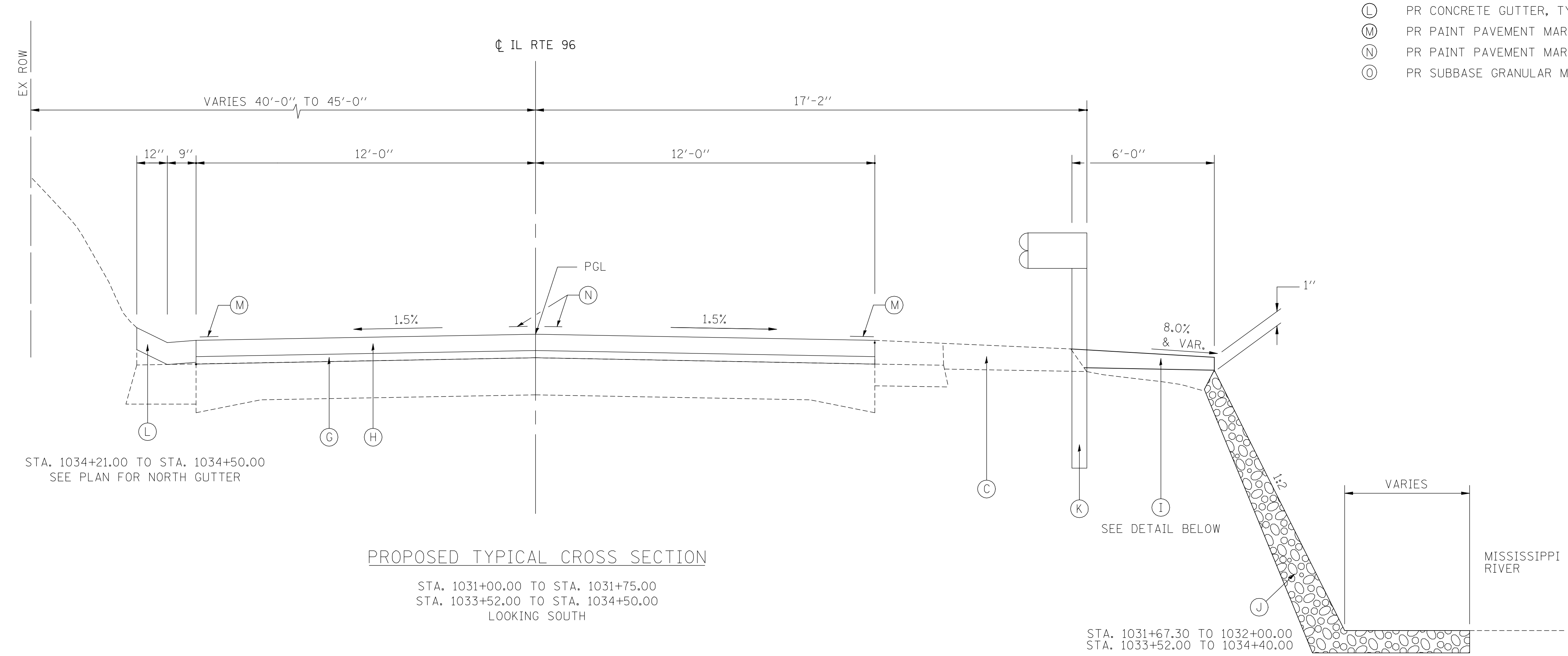
- (N) PR PAINT PAVEMENT MARKING- LINE 5″, DOUBLE YELLOW
- (O) PR SUBBASE GRANULAR MATERIAL, TYPE A 12″



PROPOSED TYPICAL CROSS SECTION

STA. 1031+00.00 TO STA. 1031+75.00
STA. 1033+52.00 TO STA. 1034+50.00
LOOKING SOUTH

SHOULDER DETAIL:

STA. 1031+50.00 TO STA. 1031+75.00 - 6′ AGG. SHOULDER
STA. 1031+75.00 TO STA. 1033+52.00 - 4′ HMA SHOULDER
6′ AGG. SHOULDER
STA. 1033+52.00 TO STA. 1033+87.50 - 6′ AGG. SHOULDER

* AGGREGATE SHOULDER WILL BE 2 1/4″ THICK AT START AND TAPER TO 1″ THICK AT ENDING POINT

LIN ENGINEERING,LTD.
Consulting Engineers
Westmont, Illinois

USER NAME = Plotted by Roadways7	DESIGNED - SGL	REVISED -	
	DRAWN - SGL	REVISED -	
PLOT SCALE = 40.0000 ' / IN.	CHECKED - FML	REVISED -	
PLOT DATE = 10/19/2012	DATE - 9/2012	REVISED -	

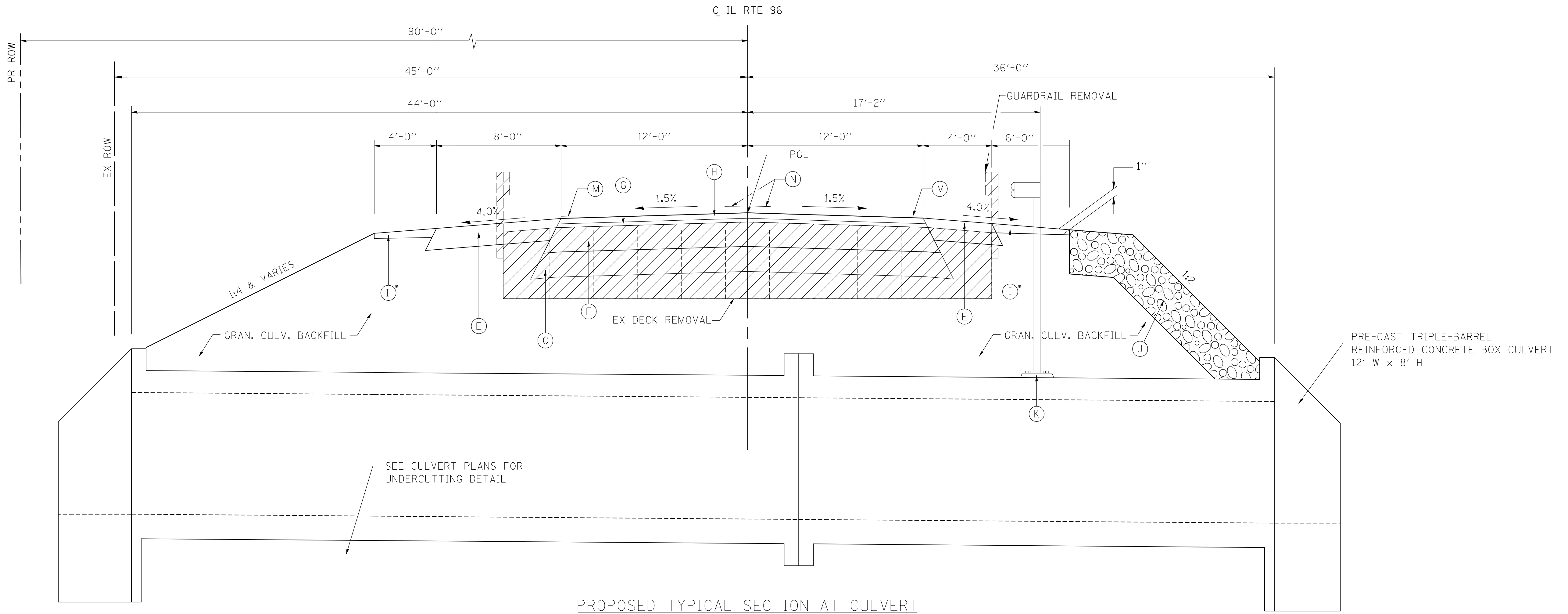
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 96 OVER INLET DITCH
TYPICAL SECTIONS

SCALE: NONE | SHEET NO. 02 OF 03 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
510	120B-3	HANCOCK	38	12
		CONTRACT NO. 72B67		

FED. ROAD DIST. NO. 6 | ILLINOIS | FED. AID PROJECT



PROPOSED TYPICAL SECTION AT CULVERT

STA 1031+75.00 TO STA 1033+52.00
LOOKING SOUTH

LEGEND

- (A) EX PCC PAVEMENT, 9-6-9
- (B) EX HMA BASE COURSE WIDENING, 9"
- (C) EX HMA SHOULDER, ±8"
- (D) EX BITUMINOUS SURFACE, ±6"
- (E) PR HMA SHOULDER, 8"
- (F) PR HMA BASE COURSE, 10"
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- (L) PR CONCRETE GUTTER, TYPE B
- (M) PR PAINT PAVEMENT MARKING- LINE 5", WHITE
- (N) PR PAINT PAVEMENT MARKING- LINE 5", DOUBLE YELLOW
- (O) PR SUBBASE GRANULAR MATERIAL, TYPE A 12"

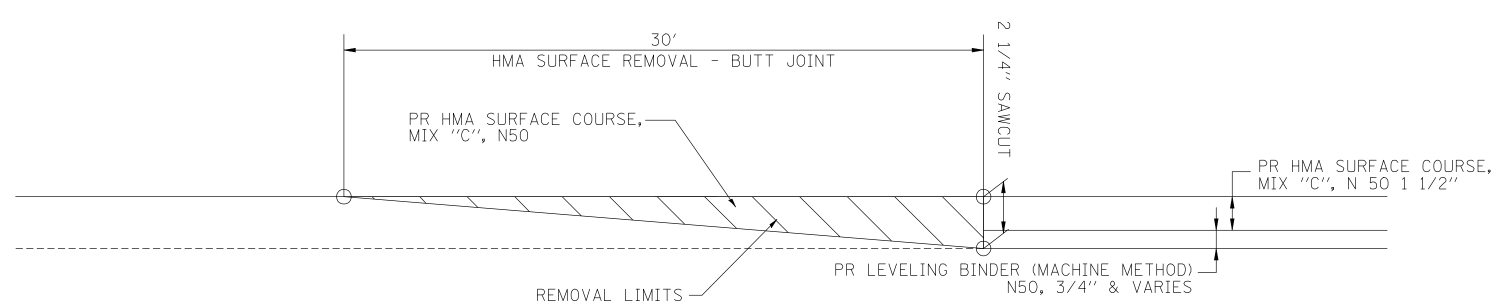
NOTES:

1. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH ARTICLE 406.08 AND ARTICLE 440.03.

2. THE SAW CUT JOINTS SHALL BE PRIMED JUST PRIOR TO THE PLACING OF HOT MIX ASPHALT MATERIAL. THIS WORK WILL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF ARTICLE 406.05.

3. THE HMA SURF. REMOVAL - BUTT JOINT PAY ITEM INCLUDES THE SAW CUTS.

* AGGREGATE SHOULDER WILL BE 2 1/4" THICK AT START AND TAPER TO 1" THICK AT ENDING POINT

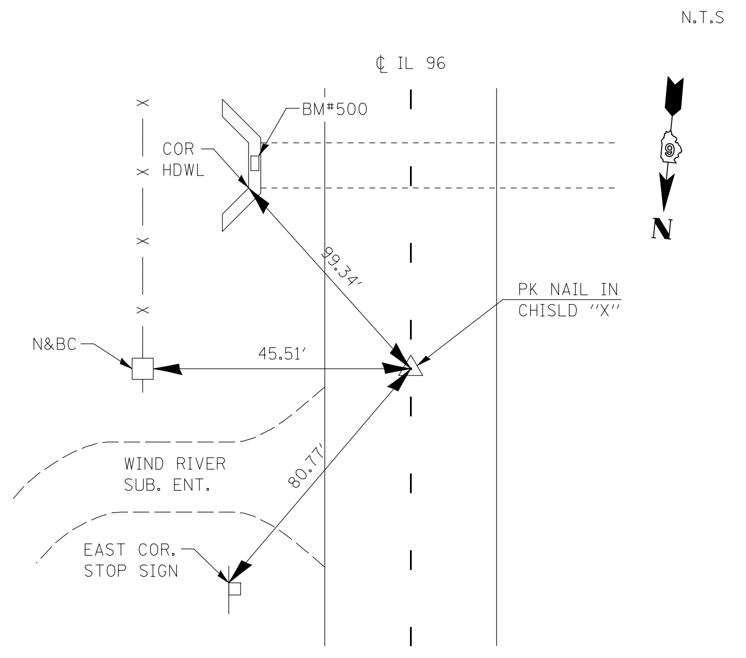


PROPOSED BUTT JOINT DETAIL

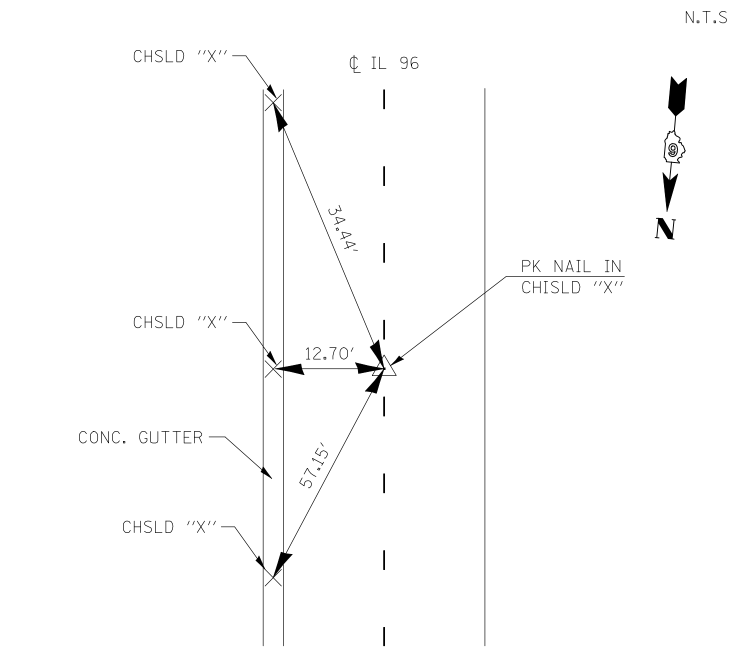
STA 1031+00.00 TO STA 1031+30.00
STA 1034+20.00 TO STA 1034+50.00

LIN ENGINEERING,LTD. Consulting Engineers Westmont, Illinois	USER NAME = Plotted by Roadways7	DESIGNED - SGL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 96 OVER INLET DITCH TYPICAL SECTIONS	
		DRAWN - SGL	REVISED -			
	PLOT SCALE = 40.0000 ' / IN.	CHECKED - FML	REVISED -			
	PLOT DATE = 10/19/2012	DATE - 9/2012	REVISED -		SCALE: NONE	SHEET NO. 03 OF 03 SHEETS · STA. · TO STA.

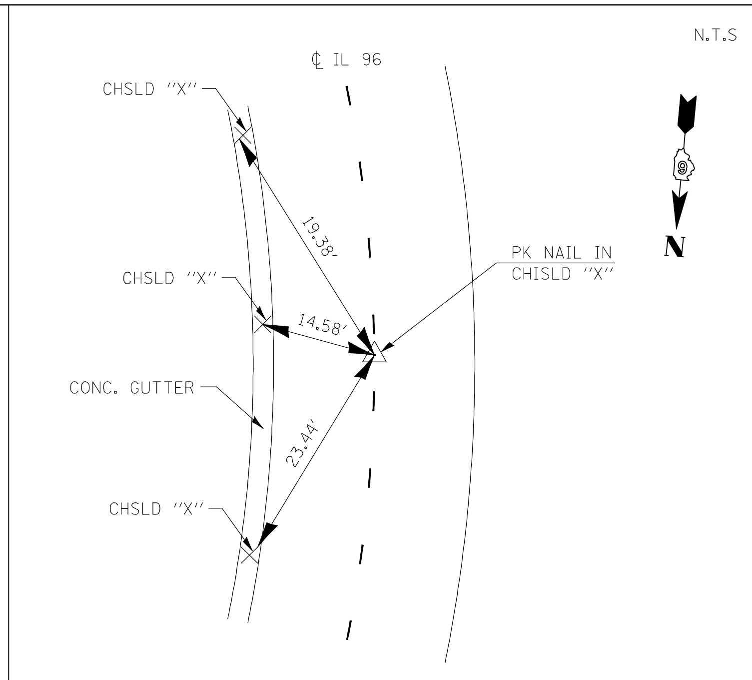
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
510	120B-3	HANCOCK	38	13
		CONTRACT NO. 72B67		
FED. ROAD DIST. NO. 6	ILLINOIS	FED. AID PROJECT		



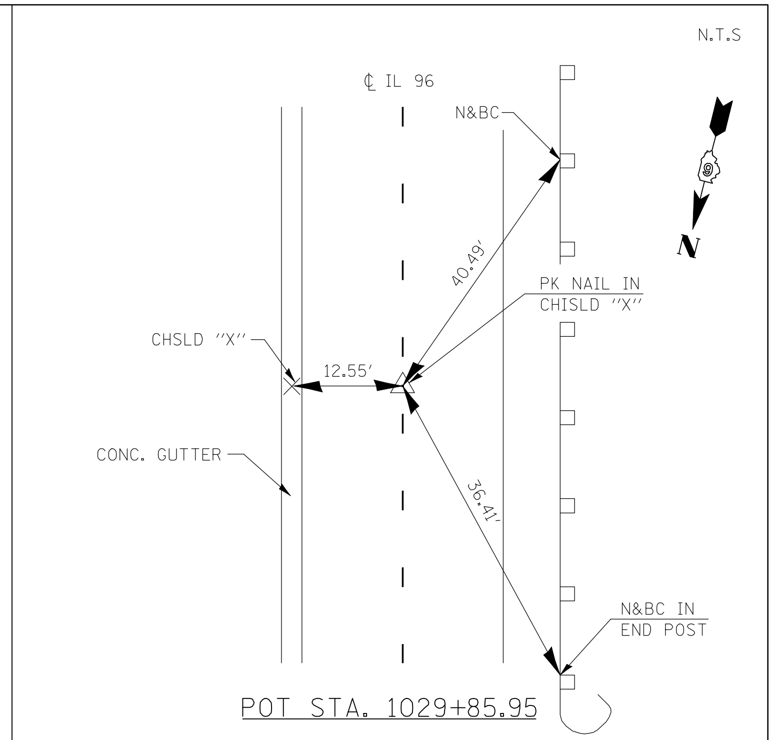
POT STA. 1023+01.49



PC STA. 1026+84.24



PI STA. 1028+35.13



POT STA. 1029+85.95

BENCHMARKS:

BM-0029 - BRASS DISC IN WEST WINGWALL OF NORTH ABUTMENT.
BM-0029 IS FROM HANCOCK CO. GIS NETWORK. ELEVATION IS A RTK
HEIGHT WITH AN ACCURACY OF ±0.2 FT. USE FOR THIS PROJECT ONLY.
NAVD88 = 530.645

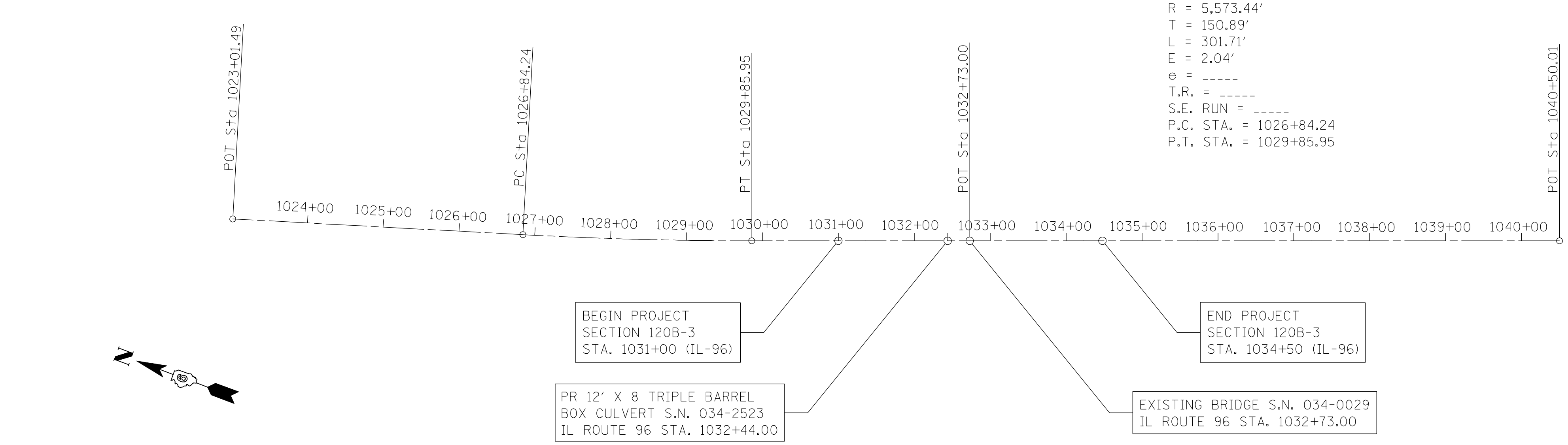
BM#500 - FOUND CHISELED SQUARE IN CENTER OF EAST CONCRETE HEADWALL @ STA. ±1024+00, LEFT SIDE OF ℄.
NAVD88 = 551.765

BM#501 - FOUND CHISELED SQUARE ON WEST WINGWALL OF SOUTH ABUTMENT.
NAVD88 = 530.222

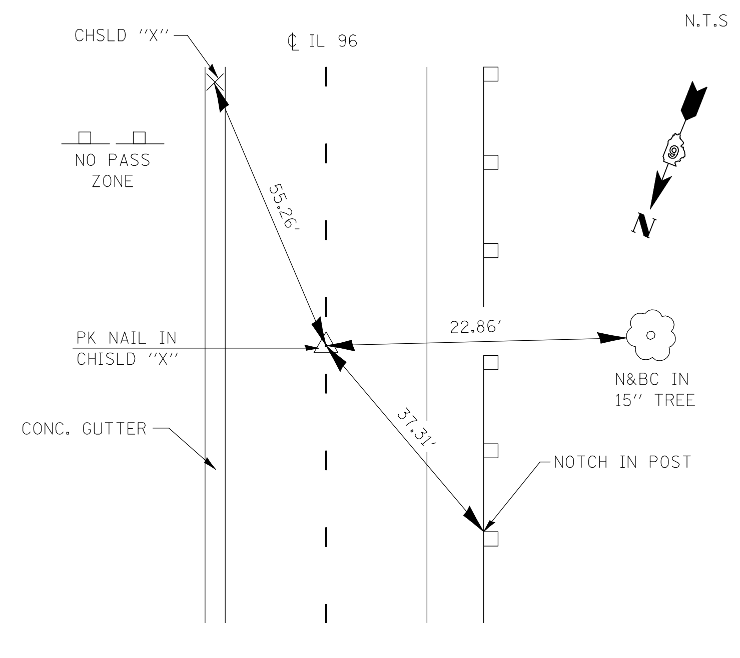
BM#502 - SET CHISELED SQUARE IN CENTER OF WEST CONCRETE HEADWALL OF BOX CULVERT @ STA. ±1038+10, RIGHT SIDE OF ℄.
NAVD88 = 528.153

BM#503 - FOUND CHISELED SQUARE IN CENTER OF WEST CONCRETE HEADWALL OF CULVERT @ STA. ±1041+25, RIGHT SIDE OF ℄.
NAVD88 = 527.183

EXIST. CURVE 205
PI STA. = 1028+35.13
Δ = 3° 06' 06" (LT)
D = 1° 01' 41"
R = 5,573.44'
T = 150.89'
L = 301.71'
E = 2.04'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 1026+84.24
P.T. STA. = 1029+85.95



SCALE = 1" = 100'
0 100ft 200ft



POT STA. 1040+50.01

LIN ENGINEERING, LTD. Consulting Engineers Westmont, Illinois	USER NAME = Plotted by Roadways7	DESIGNED - SGL	REVISED -
		DRAWN - SGL	REVISED -
	PLOT SCALE = 200.0000 ' / IN.	CHECKED - FML	REVISED -
	PLOT DATE = 10/19/2012	DATE - 9/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 96 OVER INLET DITCH
BENCHMARKS, HORIZONTAL ALIGNMENT & LOCAL TIES

SCALE: 1"=100'	SHEET NO. 01 OF 01 SHEETS	STA. 1023+01.49	TO STA. 1040+50.01

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
510	120B-3	HANCOCK	38	14
		CONTRACT NO. 72B67		
FED. ROAD DIST. NO. 6	ILLINOIS	FED. AID PROJECT		

DETAIL 2

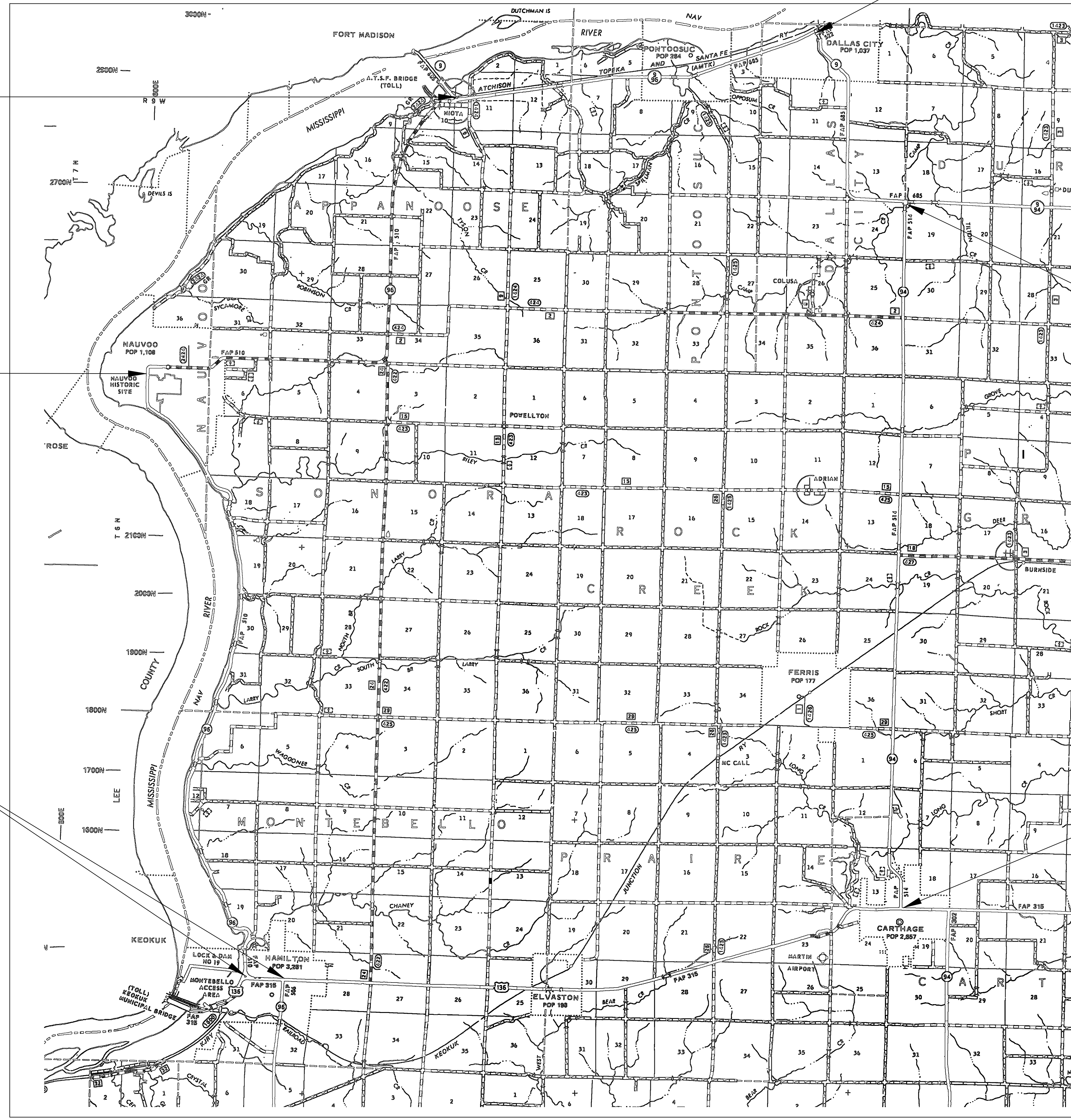
DETAIL 1

DETAIL 4

DETAIL 3

DETAIL 6

DETAIL 5



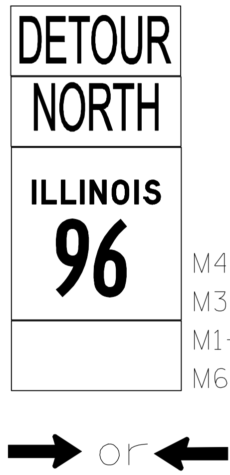
N

FILE NAME =	USER NAME = Plotted by Roadways7	DESIGNED - JS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
...\D672B67-sht-detourplan.dgn		DRAWN - JS	REVISED -	
	PLOT SCALE = 100.0000 ' / IN.	CHECKED -	REVISED -	
$MODELNAME$	PLOT DATE = 10/19/2012	DATE - 10/2012	REVISED -	

DETOUR PLAN
DETOUR ROUTE

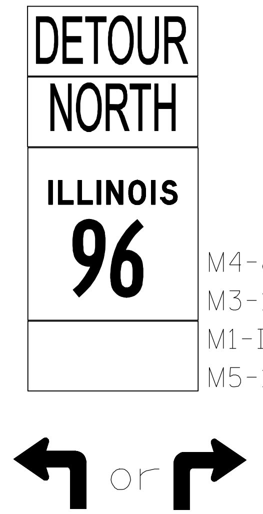
SCALE: NTS | SHEET 1 OF 4 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
510	120B-3	HANCOCK	38	15
		CONTRACT NO. 72B67		
		ILLINOIS FED. AID PROJECT		



M4-8 (2412) (0)
M3-1 (2412)
M1-I100 (2424)
M6-1L or M6-1R (2115)

DETAIL A

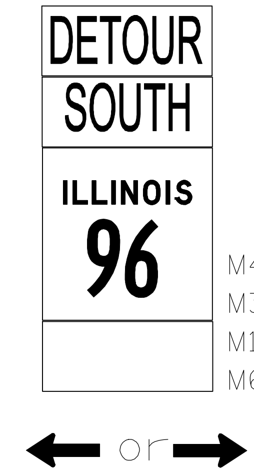


M4-8 (2412) (0)
M3-1 (2412)
M1-I100 (2424)
M5-1L or M5-1R (2115)

DETAIL B

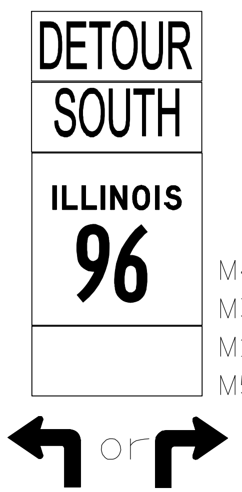
M4-8 (2412) (0)
M3-1 (2412)
M1-I100 (2424)

DETAIL C



M4-8 (2412) (0)
M3-1 (2412)
M1-I100 (2424)
M6-1L or M6-1R (2115)

DETAIL D



M4-8 (2412) (0)
M3-3 (2412)
M1-I100 (2424)
M5-1L or M5-1R (2115)

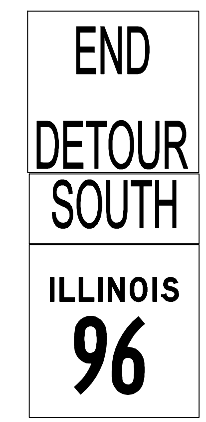
DETAIL E

M4-8 (2412) (0)
M3-3 (2412)
M1-I100 (2424)

DETAIL F

M4-8a (2418) (0)
M3-1 (2412)
M1-I100 (2424)

DETAIL I



M4-8a (2418) (0)
M3-3 (2412)
M1-I100 (2424)

DETAIL J

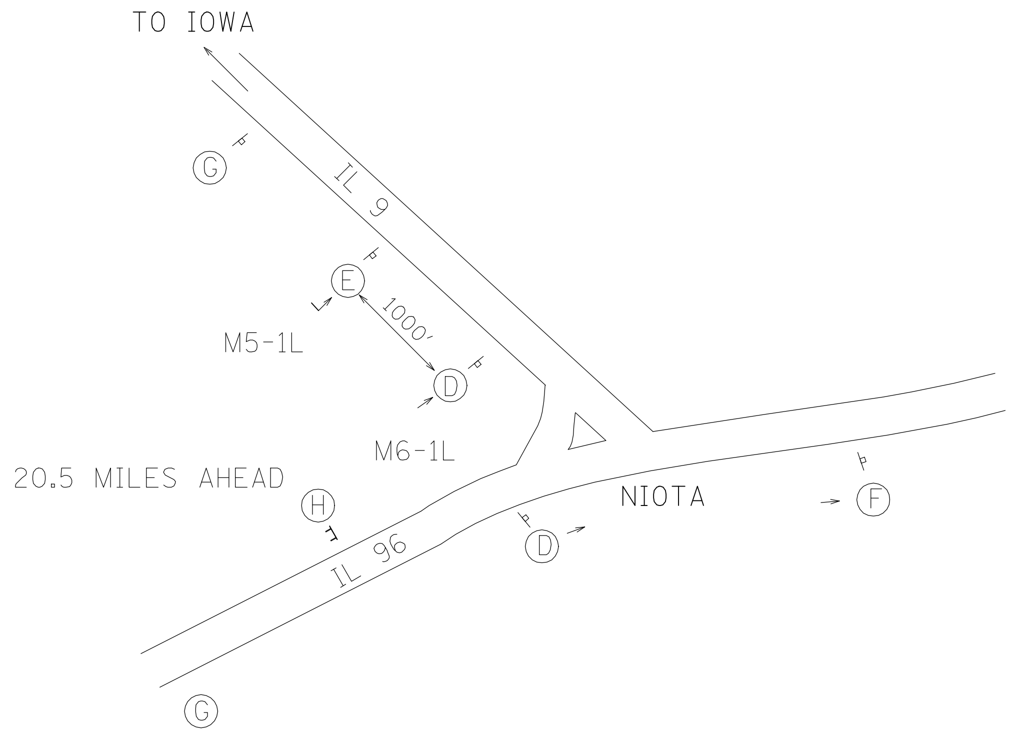
W20-2
DETAIL G

R11_3a (6030)
DETAIL H

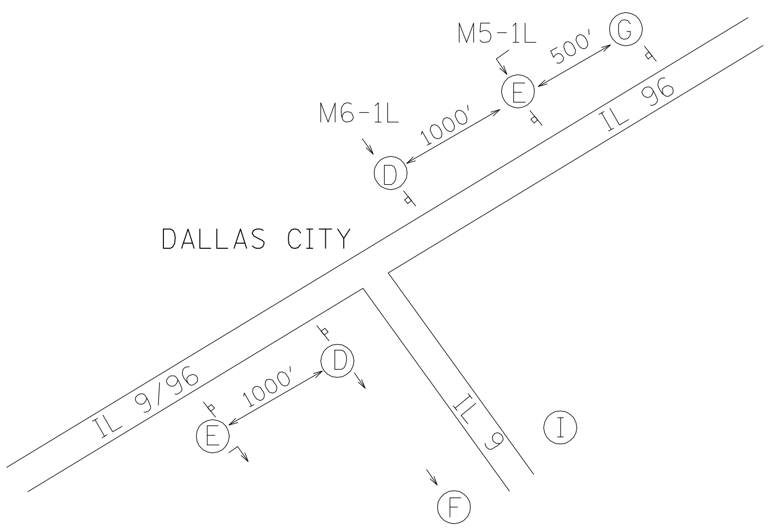
NOTE: THESE SIGNS SHALL BE FURNISHED, PLACED, AND MAINTAINED ACCORDING TO THE TRAFFIC CONTROL PLAN AND AS DIRECTED BY THE ENGINEER.

FILE NAME =	USER NAME = Plotted by Roadways7	DESIGNED - JS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETOUR PLAN SIGN DETAILS	
...\D672B67-sht-detourplan.dgn		DRAWN - JS	REVISED -			
	PLOT SCALE = 100.0000 ' / IN.	CHECKED -	REVISED -			
$MODELNAME$	PLOT DATE = 10/19/2012	DATE - 10/2012	REVISED -		SCALE: NTS	SHEET 2 OF 4 SHEETS STA. TO STA.

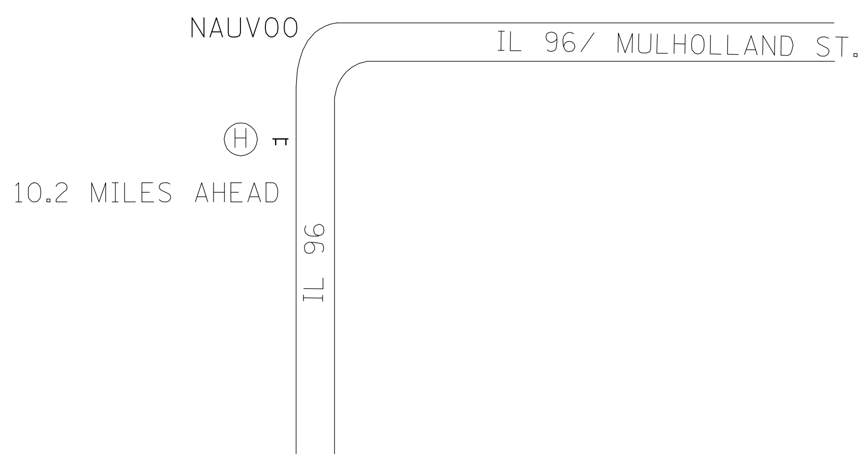
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
510	120B-3	HANCOCK	38	16
		CONTRACT NO. 72B67		
		ILLINOIS FED. AID PROJECT		



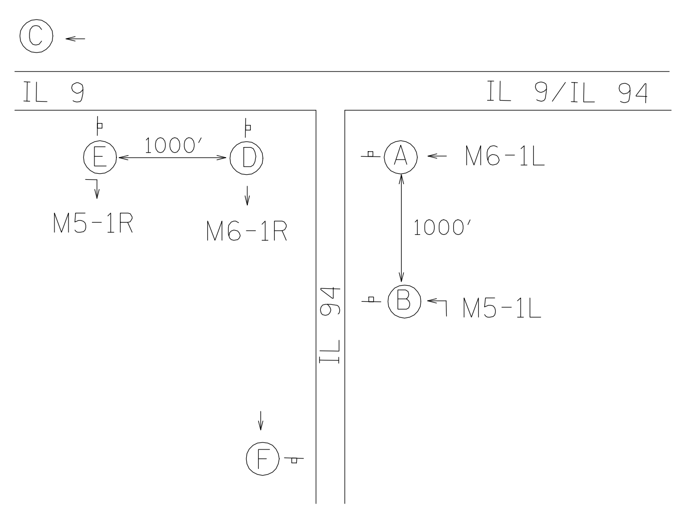
DETAIL 1



DETAIL 2

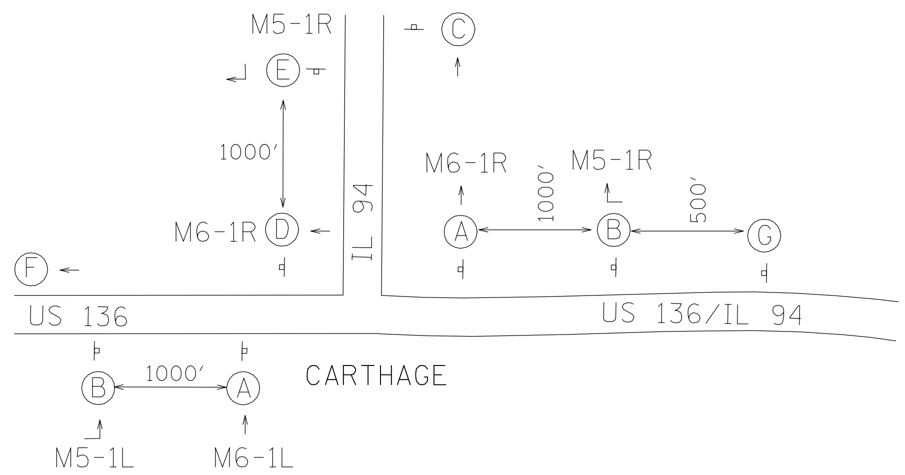


DETAIL 3

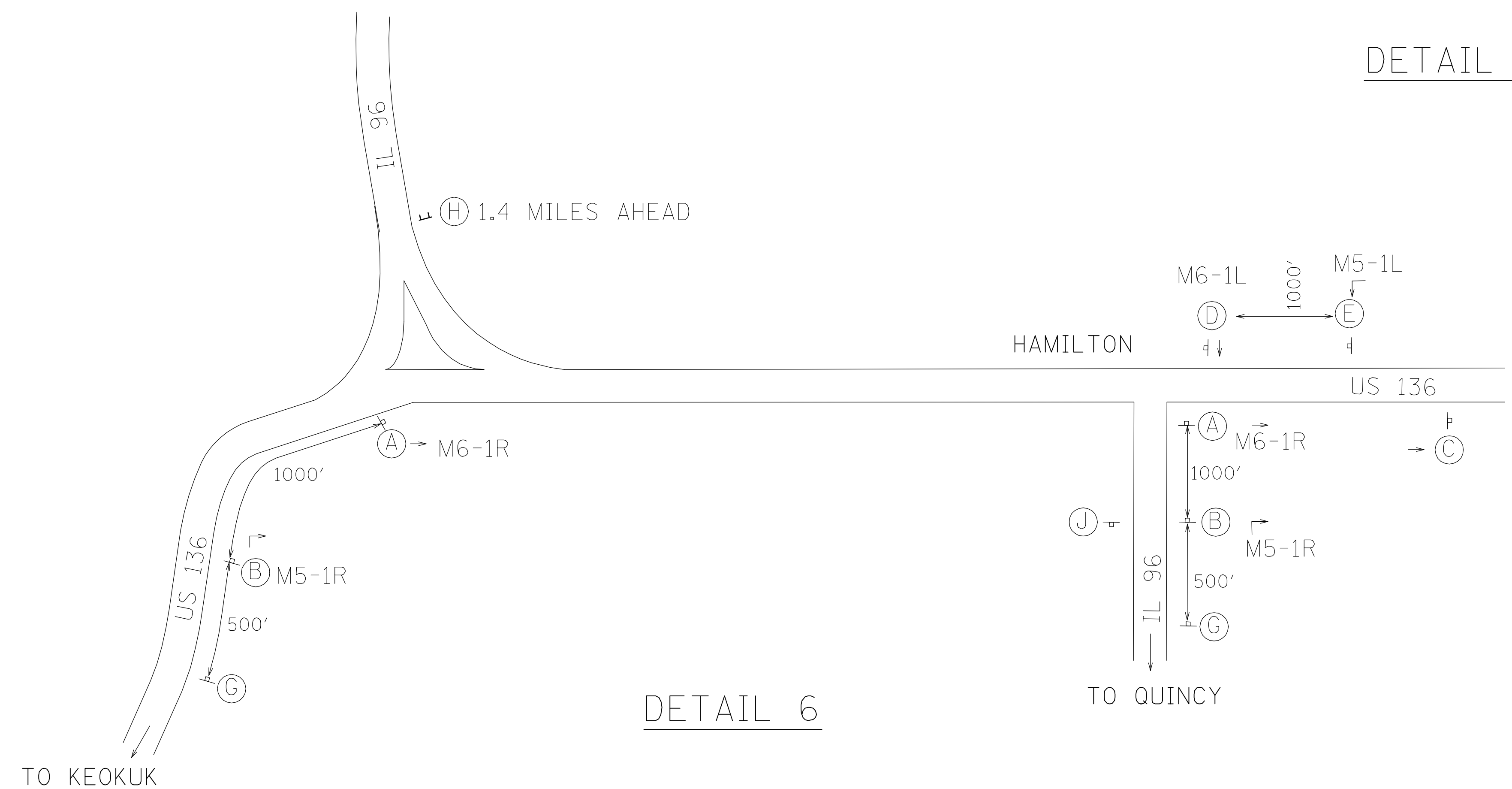


DETAIL 4

FILE NAME = ...\D672B67-sht-detourplan.dgn	USER NAME = Plotted by Roadways7	DESIGNED - JS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETOUR PLAN SIGN PLACEMENT DETAILS	F.A.P RTE. 510	SECTION 120B-3
		DRAWN - JS	REVISED -			COUNTY HANCOCK	TOTAL SHEETS 38 / SHEET NO. 17
	PLOT SCALE = 100.0000 '/ IN.	CHECKED -	REVISED -			CONTRACT NO. 72B67	
$MODELNAME$	PLOT DATE = 10/19/2012	DATE - 10/2012	REVISED -		SCALE: NTS / SHEET 3 OF 4 SHEETS / STA. TO STA.	ILLINOIS	FED. AID PROJECT



DETAIL 5



DETAIL 6

FILE NAME = ...\D672B67-sht-detourplan.dgn	USER NAME = Plotted by Roadways7	DESIGNED - JS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETOUR PLAN SIGN PLACEMENT DETAILS	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - JS	REVISED -			510	120B-3	HANCOCK	38	18
	PLOT SCALE = 100.0000 '/ IN.	CHECKED -	REVISED -			CONTRACT NO. 72B67				
$MODELNAME$	PLOT DATE = 10/19/2012	DATE - 10/2012	REVISED -		SCALE: NTS; SHEET 4 OF 4 SHEETS; STA. TO STA.	ILLINOIS FED. AID PROJECT				

NOTES:

1. ALL REGULATORY SIGNS & MAILBOXES THAT INTERFERE WITH CONSTRUCTION OPERATIONS MUST BE MOVED AND RE-INSTALLED AT A DIFFERENT LOCATION AS DIRECTED BY THE ENGINEER.
2. ALL OTHER SIGNS THAT INTERFERE WITH CONSTRUCTION OPERATIONS MAY BE REMOVED THROUGH THE DURATION OF THE WORK AND RE-INSTALLED AT THE SAME LOCATION UPON THE COMPLETION OF THE WORK.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ANY SIGN PANEL, SIGN POST, MAILBOX, OR MAILBOX POST THAT IS DAMAGED DURING THE REMOVAL/RE-INSTALLATION PROCESS.
4. SEE THE PRIVATE ENTRANCE DETAILS SHEET FOR THE NORTH AND SOUTH ENTRANCE.

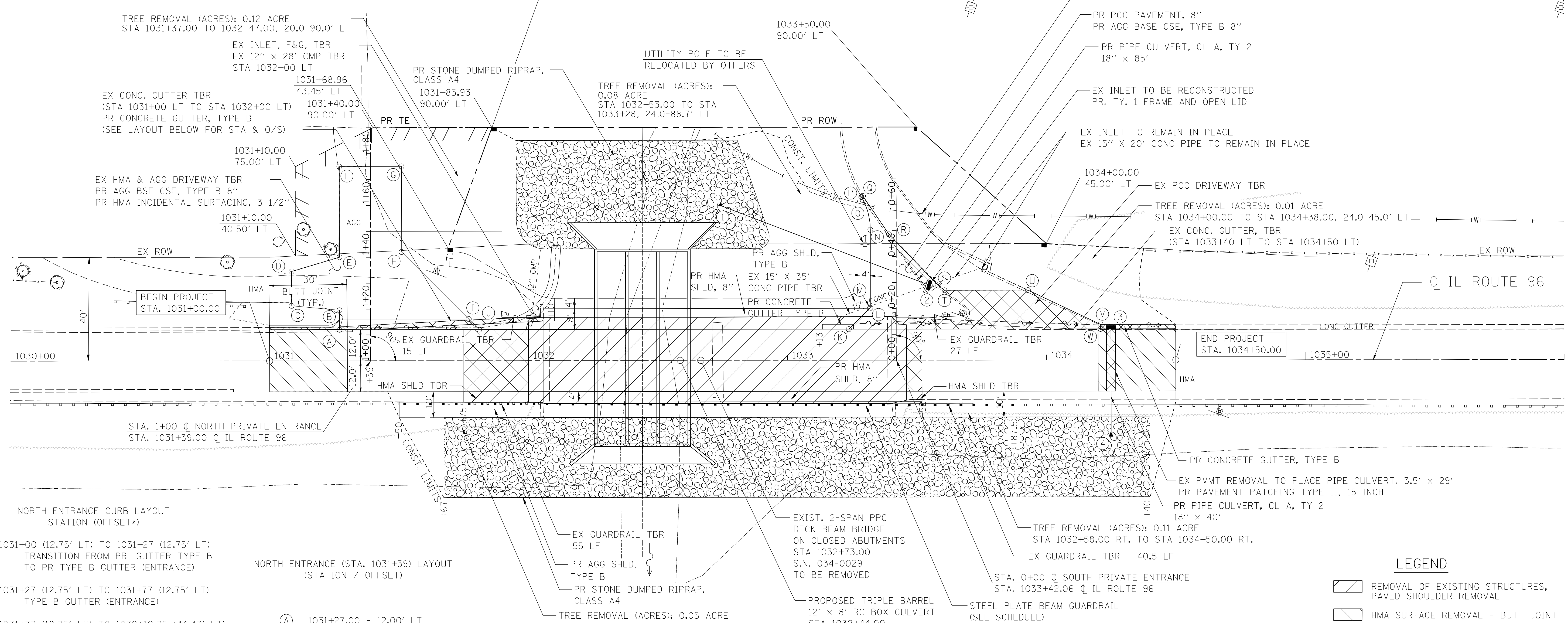
(1) STA 1032+74.10, 59.82' LT
PR CIP REINF CONCRETE END SECTION, 18"
℄ = 521.25

(2) STA 1033+54.76, 29.00' LT
RECONST. INLET
PR TY 1 F & OL
RIM ELEV. = 531.10
INV. ELEV. = 522.10*
*INVERT ELEV. TO BE CONFIRMED IN THE FIELD

(3) STA 1034+25.00, 12.56' LT
PR INLET TY B
PR TY 10 F&G
RIM ELEV.= 529.24*
INV. ELEV.=525.40
*RIM ELEV. CALLED OUT TO ℄ OF TY B GUTTER

(4) STA 1034+24.96, 29.23' RT
PR CIP REINF CONCRETE END SECTION, 18"
℄ = 525.00

SEC 19, T5N, R8W, 4TH PM



NORTH ENTRANCE CURB LAYOUT
STATION (OFFSET*)

1031+00 (12.75' LT) TO 1031+27 (12.75' LT)
TRANSITION FROM PR. GUTTER TYPE B TO PR TYPE B GUTTER (ENTRANCE)

1031+27 (12.75' LT) TO 1031+77 (12.75' LT)
TYPE B GUTTER (ENTRANCE)

1031+77 (12.75' LT) TO 1032+10.75 (44.43' LT)
TYPE B GUTTER (OUTLET)

*OFFSET MEASURED TO FLOW LINE

NORTH ENTRANCE (STA. 1031+39) LAYOUT
(STATION / OFFSET)

A	1031+27.00 - 12.00' LT
B	1031+27.00 - 19.50' LT
C	1031+08.50 - 21.25' LT
D	1031+08.50 - 34.50' LT
E	1031+27.00 - 40.00' LT
F	1031+27.00 - 75.00' LT
G	1031+51.00 - 75.00' LT
H	1031+51.00 - 42.00' LT
I	1031+76.92 - 16.08' LT
J	1031+81.00 - 12.00' LT

MISSISSIPPI RIVER

SOUTH ENTRANCE (STA. 1033+42) LAYOUT
(STATION / OFFSET)

K	1033+23.71 - 12.00' LT	R	1033+39.27 - 48.63' LT
L	1033+31.76 - 20.00' LT	S	1033+58.30 - 28.81' LT
M	1033+32.06 - 20.30' LT	T	1033+60.67 - 27.00' LT
N	1033+32.06' - 50.39' LT	U	1033+92.90 - 27.00' LT
O	1033+28.61 - 63.05' LT	V	1034+20.96 - 13.75' LT
P	1033+28.06 - 64.02' LT	W	1034+20.96 - 12.00' LT
Q	1033+29.24 - 63.42' LT		

LEGEND

- REMOVAL OF EXISTING STRUCTURES, PAVED SHOULDER REMOVAL
- HMA SURFACE REMOVAL - BUTT JOINT
- STONE DUMPED RIPRAP, CLASS A4
- PAVEMENT REMOVAL, DRIVEWAY PAVEMENT REMOVAL, GUTTER REMOVAL

SCALE: 1" = 20'
0' 20' 40' 60'

STEEL PLATE BEAM GUARDRAIL, TYPE A (LF)

FROM STA.	TO STA.	OFFSET	LENGTH
1031+50.00	1032+25.00	RT	75'-0"
1032+62.50	1033+87.50	RT	125'

STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES (LF)

FROM STA.	TO STA.	OFFSET	LENGTH
1032+25.00	1032+62.50	RT	37'-6"

SEC 19, T5N, R8W, 4TH PM

LIN ENGINEERING, LTD.
Consulting Engineers
Westmont, Illinois

USER NAME = Plotted by Roadways7	DESIGNED - SGL	REVISED -
	DRAWN - SGL	REVISED -
PLOT SCALE = 40.0000 ' / IN.	CHECKED - FML	REVISED -
PLOT DATE = 10/19/2012	DATE - 9/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

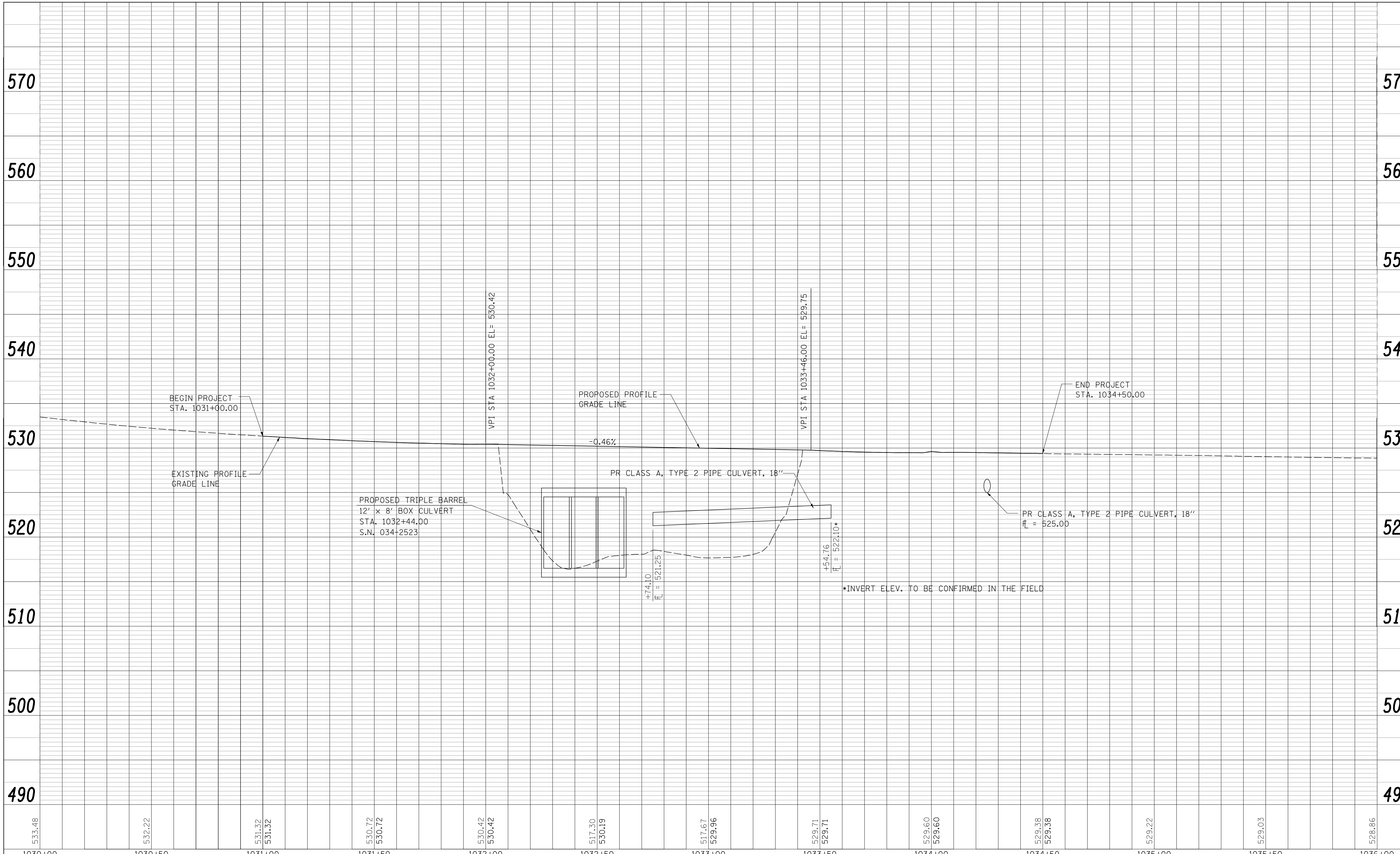
IL ROUTE 96 OVER INLET DITCH
ROADWAY PLAN

SCALE: 1"=20' | SHEET NO. 01 OF 01 SHEETS | STA. 1030+00.00 TO STA. 1036+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
510	120B-3	HANCOCK	38	19

CONTRACT NO. 72B67

FED. ROAD DIST. NO. 6 | ILLINOIS | FED. AID PROJECT



PLAN	
NOTE BOOK	SURVEYED
NO. ____	PLOTTED
	ALIGNMENT CHECKED
	R.O.W. WAY CHECKED
	CADD FILE NAME
BY	DATE

PROFILE	
NOTE BOOK	SURVEYED
NO. ____	PLOTTED
	GRADES CHECKED
	B.M. NOTED
	STRUCTURE NOTATN'S CHKD
BY	DATE

LIN ENGINEERING, LTD.
Consulting Engineers
Westmont, Illinois

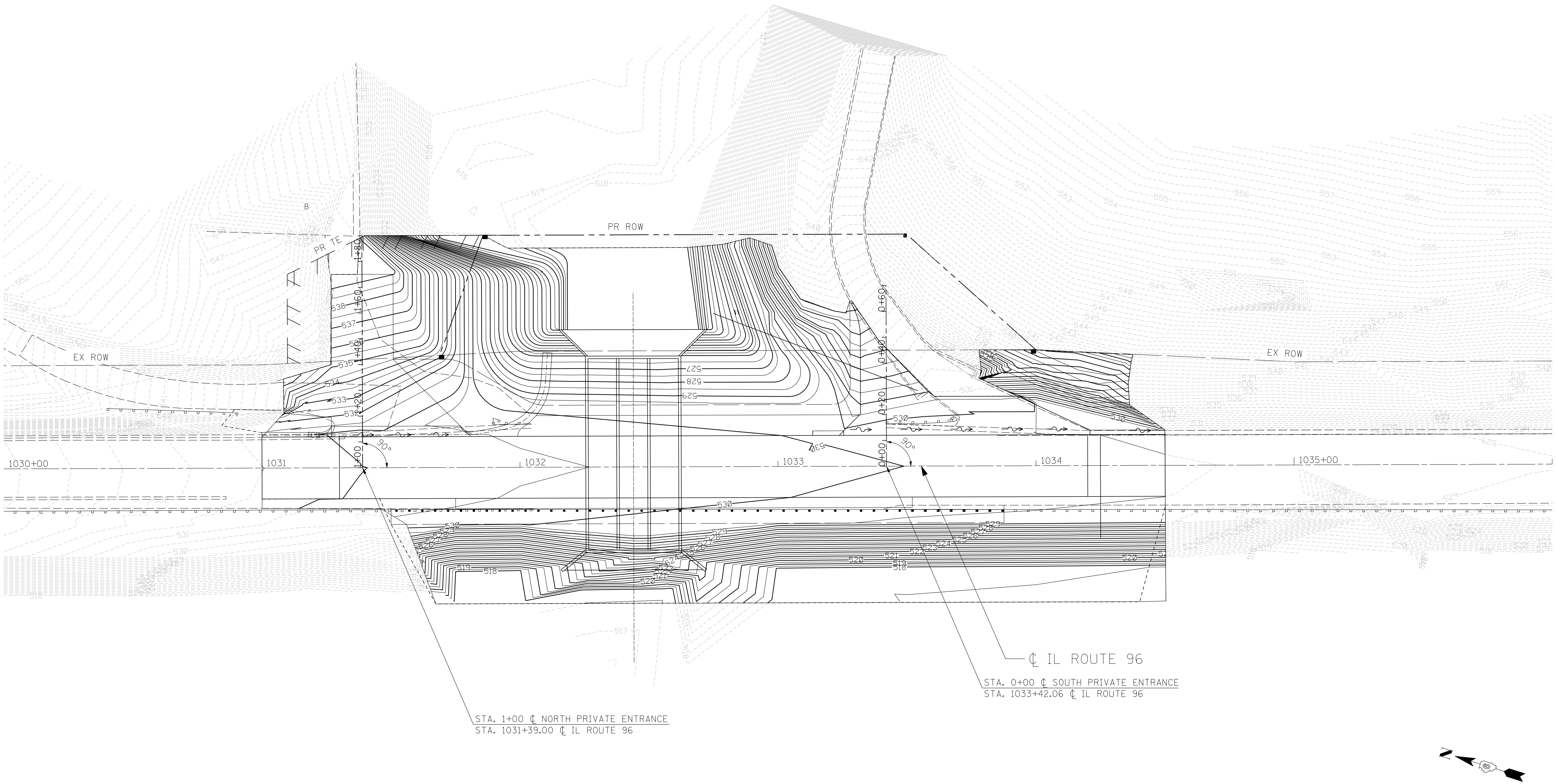
USER NAME = Plotted by Roadways7	DESIGNED - SGL	REVISED -
	DRAWN - SGL	REVISED -
PLOT SCALE = 40.0000 ' / IN.	CHECKED - FML	REVISED -
PLOT DATE = 10/19/2012	DATE - 9/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 96 OVER INLET DITCH
ROADWAY PROFILE

SCALE: 1"=20'H, 5'V | SHEET NO. 01 OF 01 SHEETS | STA. 1030+00.00 TO STA. 1036+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
510	120B-3	HANCOCK	38	20
		CONTRACT NO. 72B67		
FED. ROAD DIST. NO. 6	ILLINOIS	FED. AID PROJECT		



LIN ENGINEERING,LTD. Consulting Engineers Westmont, Illinois	USER NAME = Plotted by Roadways7	DESIGNED - RC	REVISED -
		DRAWN - RC	REVISED -
	PLOT SCALE = 40.0000 ' / IN.	CHECKED - AS	REVISED -
	PLOT DATE = 10/19/2012	DATE - 9/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 96 OVER INLET DITCH
GRADING PLAN

SCALE: 1"=20'	SHEET NO. 01 OF 01 SHEETS	STA. 1030+00.00 TO STA. 1036+00.00

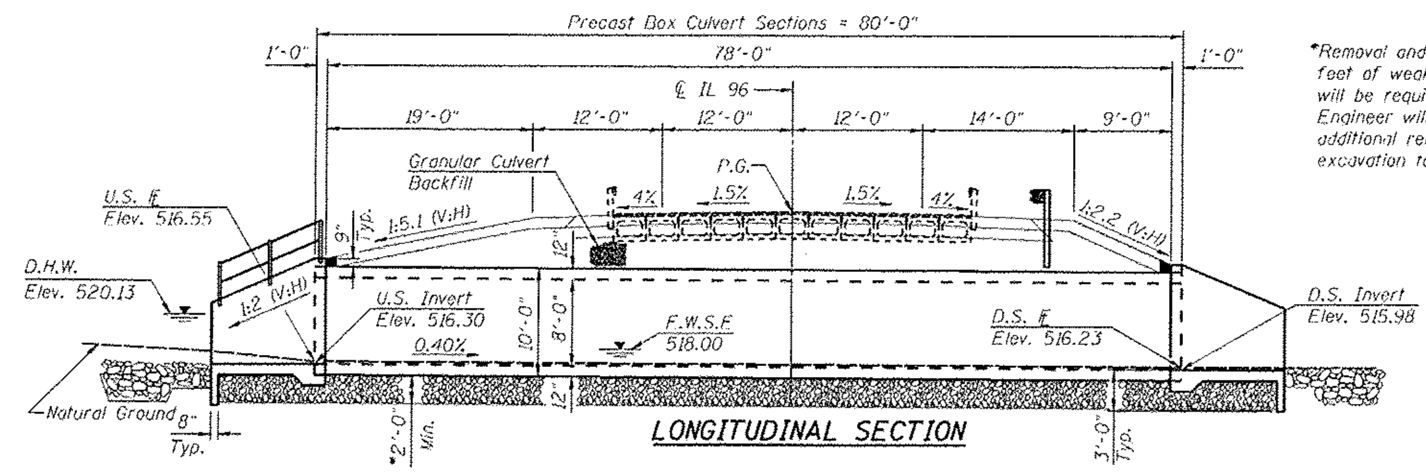
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
510	120B-3	HANCOCK	38	21
		CONTRACT NO. 72B67		
FED. ROAD DIST. NO. 6	ILLINOIS	FED. AID PROJECT		

Benchmark: Brass disc in west wing of North Abutment, Sta. 1032+04, NAVD88 Elev. 530.645.

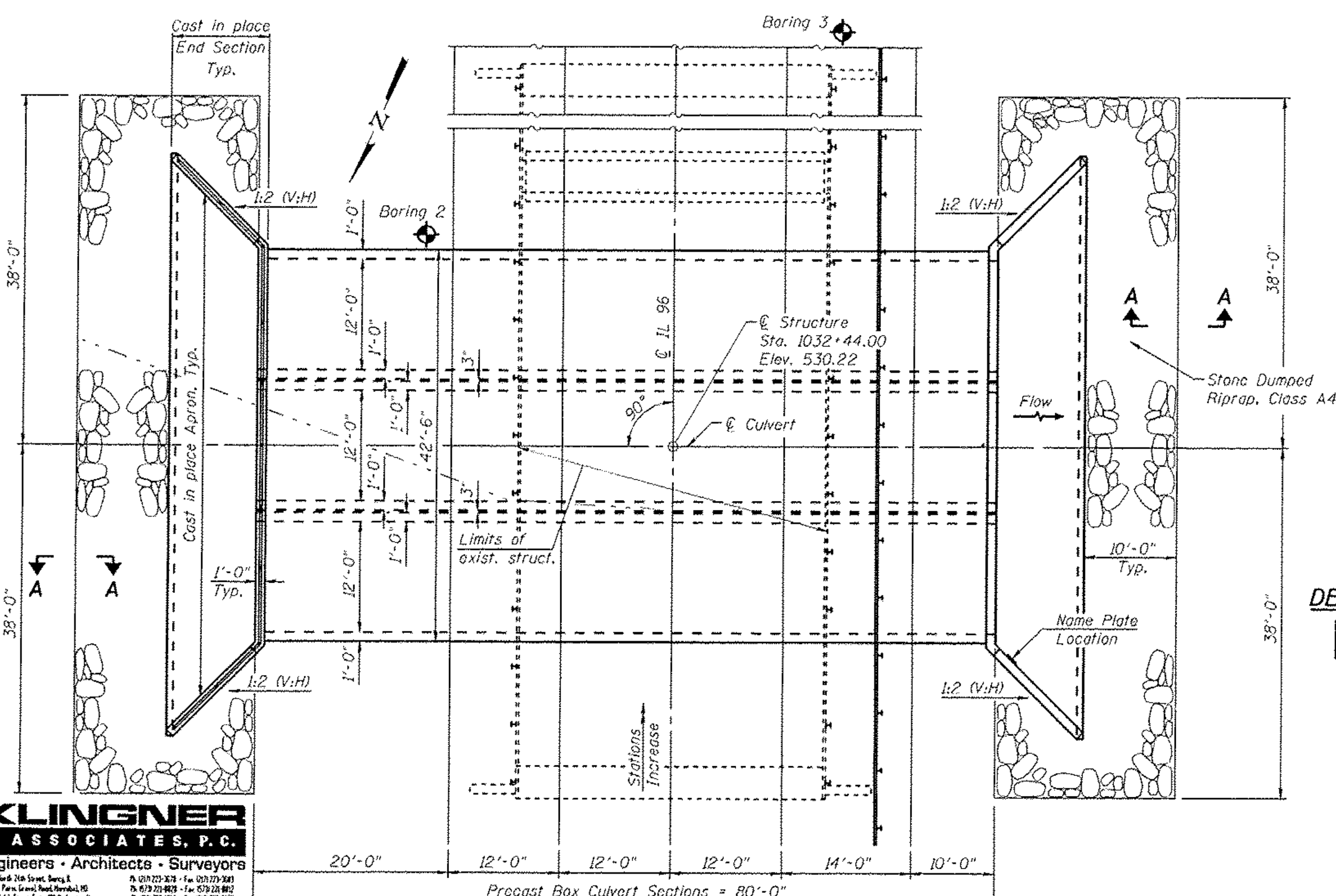
Existing Structure: S.N. 034-0029 was originally built in 1935 as FA-510, Section 120-B-2 at Sta. 1032+73.00 over Inlet Ditch. In 1981 the superstructure was removed and replaced under FA-510, Section 120-B-5. In 1997 the bridge was resurfaced with a waterproofing membrane and bituminous overlay under FA-510, Sections 119RS-8 & 120RS-12. The existing structure is a two span bridge consisting of PPC deck beams on closed abutments and a solid wall pier keyed into rock. The back-to-back length of the existing bridge is 138'-0", the out-to-out width is 33'-0", and there is no skew.

The existing structure shall be removed and replaced. The road will be closed and traffic detoured during construction.

No Salvage.



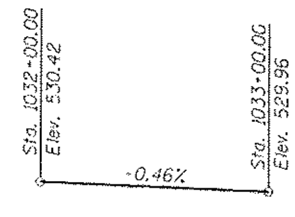
LONGITUDINAL SECTION



PLAN

INDEX OF SHEETS

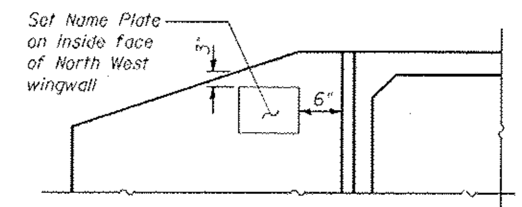
*Removal and replacement of at least two feet of weak soil with Rock Fill - Foundation will be required beneath the culvert. The Engineer will determine the limits of additional removal and replacement following excavation to plan grade.



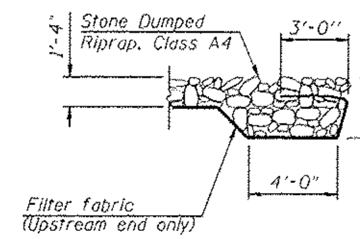
PROFILE GRADE
(along ℄ roadway - IL 96)

STATION 1032+44.00
BUILT 201_ BY
STATE OF ILLINOIS
F.A.P. RTE. 510 SEC. 120B-3
LOADING HL-93
STRUCTURE NO. 034-2523

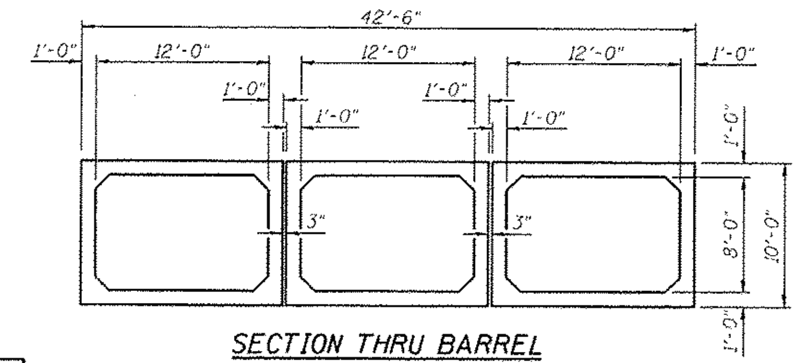
NAME PLATE
See Std. 515001



NAME PLATE LOCATION



SECTION A-A



SECTION THRU BARREL

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Stone Dumped Riprap, Class A4	Ton	119
Filter Fabric	Sq. Yd.	111
Removal of Existing Structures	Each	1
Name Plates	Each	1
Box Culvert End Sections, Culvert No. 1	Each	2
Precast Concrete Box Culverts 12'x8'	Foot	240
Dewatering Structure No. 1	Each	1
Rock Fill (Special)	Cu. Yd.	3,295
Asbestos Bearing Pad Removal	Each	22
Granular Culvert Backfill	Cu. Yd.	873
Rock Fill-Foundation	Ton	6,912
Pipe Handrail	Foot	70

GENERAL NOTES

Removal and replacement of weak soil with Rock Fill (Special) will be required outside the limits of the culvert. The Engineer will determine the required depth following excavation to plan grade.

Dewatering will be required during construction as per the Special Provision for Dewatering Structure No. 1.

Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

WATERWAY INFORMATION

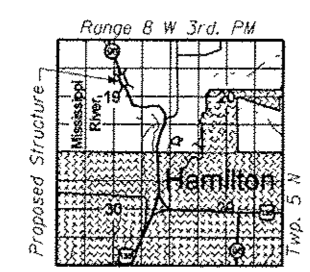
Drainage Area = 0.38 mi.² Exist. Overtopping Elev. 529.03 @ Sta. 1035+50

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
Design	50	580	160	130	520.13	1.1	0.1	521.21	520.23
Base	100	700	180	140	520.32	1.1	0.2	521.44	520.50
Max. Calc.	500	980	230	150	520.75	1.2	0.4	521.95	521.15

10 Year Velocity through Proposed Culvert = 3.94 fps

DESIGN SCOUR ELEVATION TABLE

	Upstream	Downstream
Design Scour Elevation (ft.)	513.30	512.98



LOCATION SKETCH

STATE OF ILLINOIS ALAN D. LUKENS 081-005167 QUINCY, ILLINOIS LICENSED STRUCTURAL ENGINEER

10-19-12
Alan D. Lukens
Licensed Structural Engineer
State of Illinois No. 081-005167
License Expires 11/30/2014
Date

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Specifications with 2012 Interim

DESIGN STRESSES

FIELD UNITS

f'_c = 3,500 psi
f_y = 60,000 psi (Reinforcement)

PRECAST UNITS

f'_c = 5,000 psi
f_y = 65,000 psi (Welded Wire Fabric)

GENERAL PLAN
IL 96 OVER INLET DITCH
F.A.P. ROUTE 510 SECTION 120B-3
HANCOCK COUNTY
STATION 1032+44.00
S.N. 034-2523

KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors
www.klingner.com
STATE OF ILLINOIS DESIGN FIRM • 184-2738

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - RJP	REVISED -
		CHECKED - ADL	REVISED -
	PLOT SCALE = $SCALE$	DRAWN - RJP	REVISED -
	PLOT DATE = $DATE$	CHECKED - ADL	REVISED -

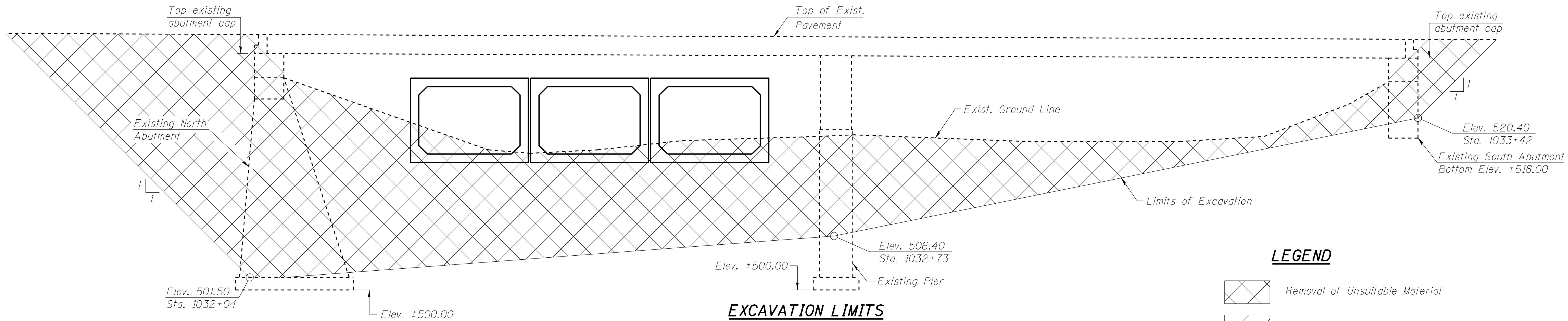
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
510	120B-3	HANCOCK	38	22
		CONTRACT NO. 72B67		

ILLINOIS FED. AID PROJECT

Klingner & Associates P.C.



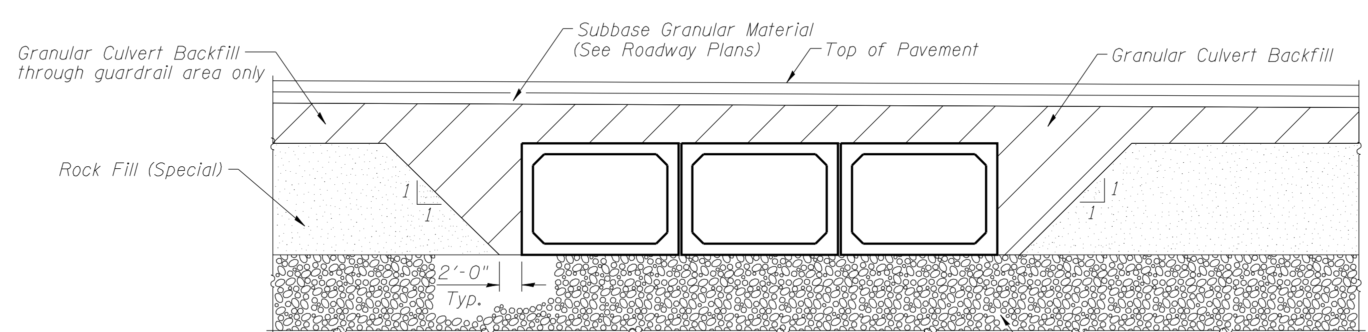
EXCAVATION LIMITS
(Looking East)

LEGEND

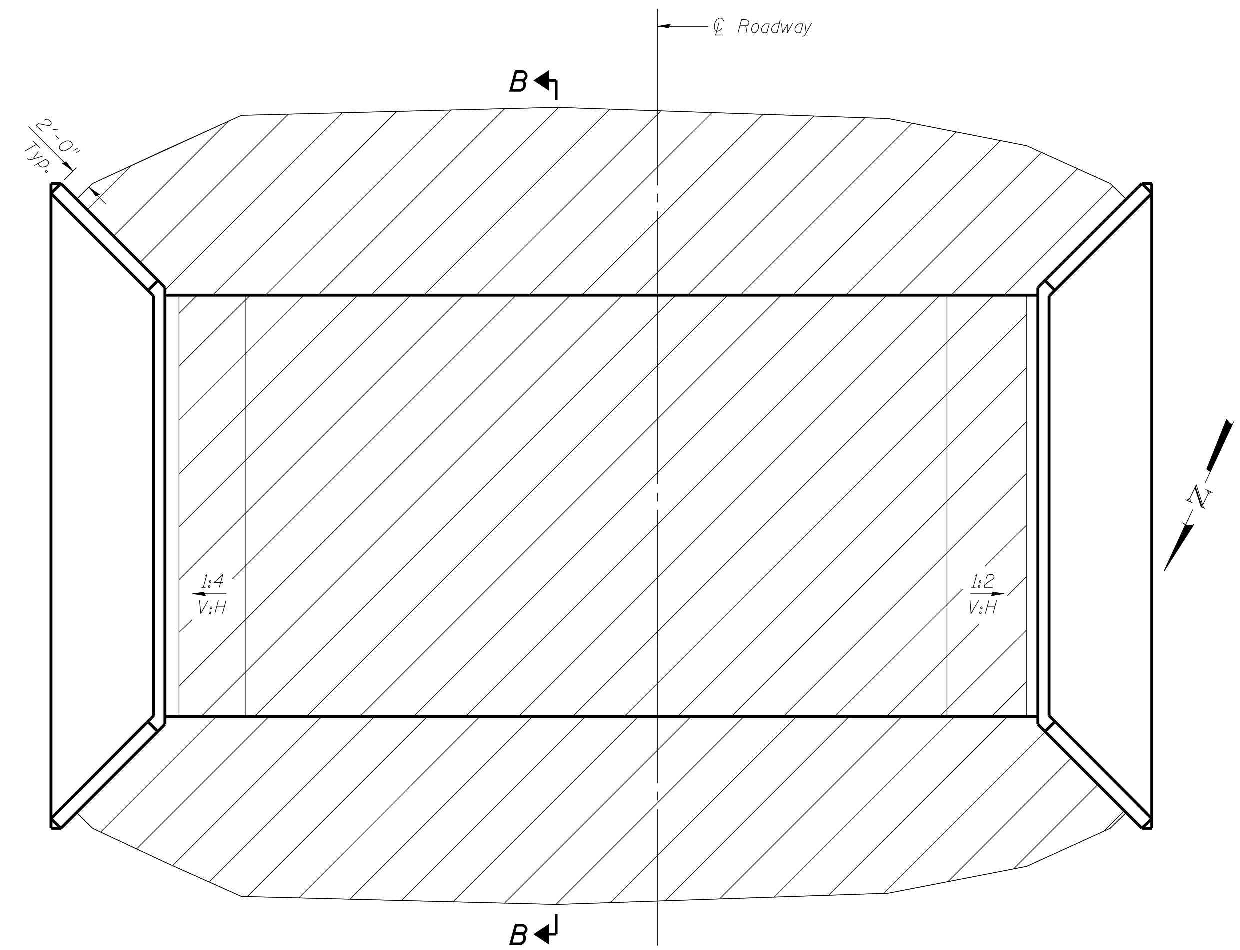
- Removal of Unsuitable Material
- Granular Culvert Backfill
- Rock Fill - Foundation
- Rock Fill (Special)

SEQUENCE OF CONSTRUCTION

1. Road closure
2. Dewater Area
3. Remove Existing Structure
4. Removal and Disposal of Unsuitable Material full width
5. Place Rock fill - Foundation to bottom of Box Culvert
6. Install Box Culvert (Precast)
7. Bring Rock Fill (Special) and Granular Culvert Backfill up to bottom of roadway
8. Cap Rock Fill (Special) with Subbase Granular Material
9. Pave Roadway
10. Construct Wingwalls, Aprons and install guardrail



SECTION B-B



GRANULAR CULVERT BACKFILL PLAN

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - RJP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL DATA S.N. 034-2523
		CHECKED - ADL	REVISED -		
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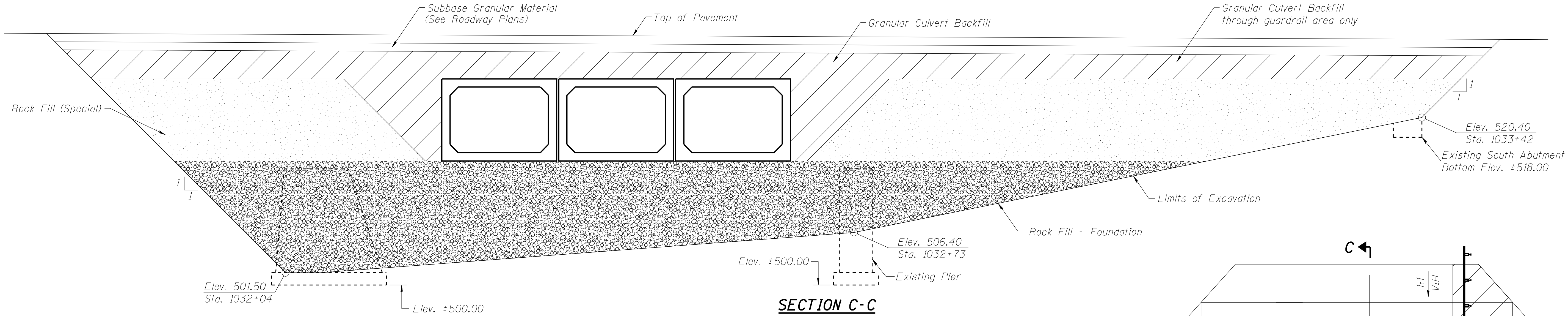
	PLOT DATE = $DATE$	CHECKED - ADL	REVISED -		SHEET NO. 2 OF 6 SHEETS

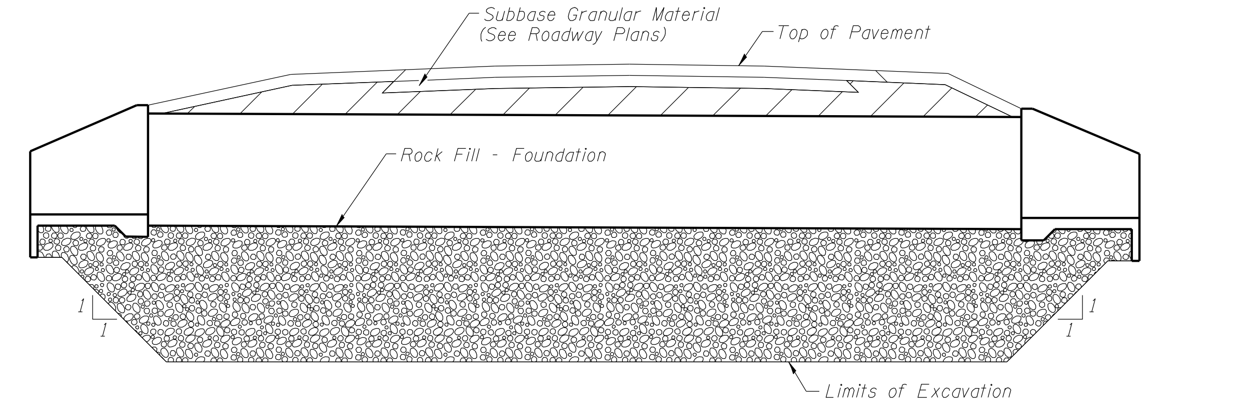
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
510	120B-3	HANCOCK	38	23
		CONTRACT NO. 72B67		
		ILLINOIS FED. AID PROJECT		

Klingner & Associates P.C.

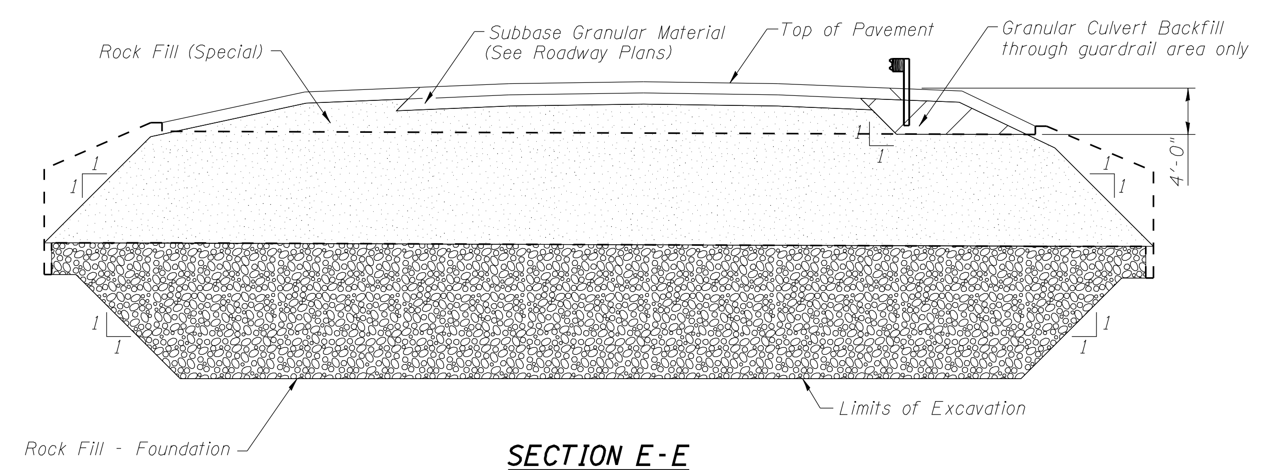


SECTION C-C

Note:
Remove existing North Abutment and Pier to a minimum of 1.0 feet below box culvert.



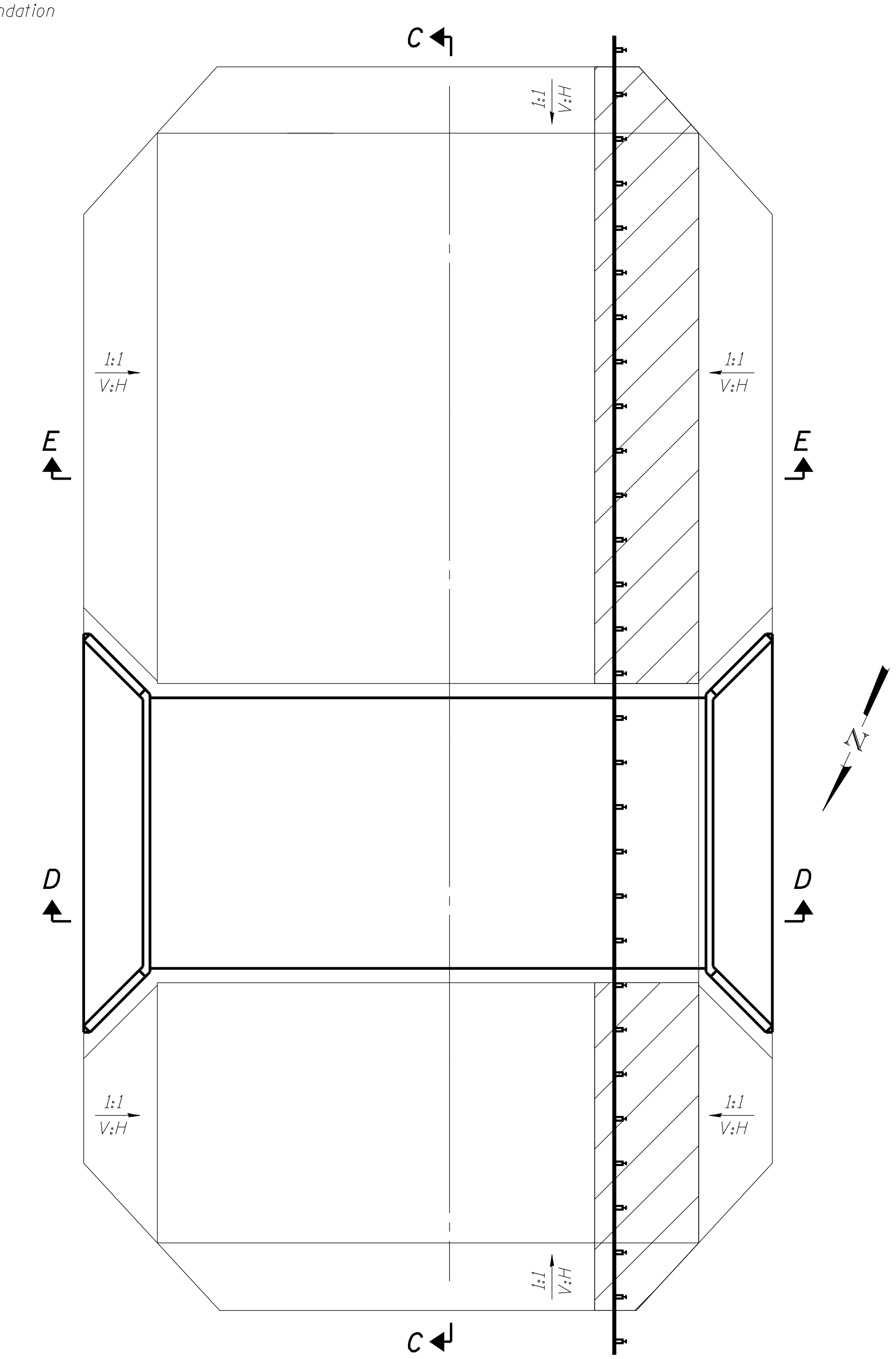
SECTION D-D



SECTION E-E

LEGEND

- Granular Culvert Backfill
- Rock Fill - Foundation
- Rock Fill (Special)

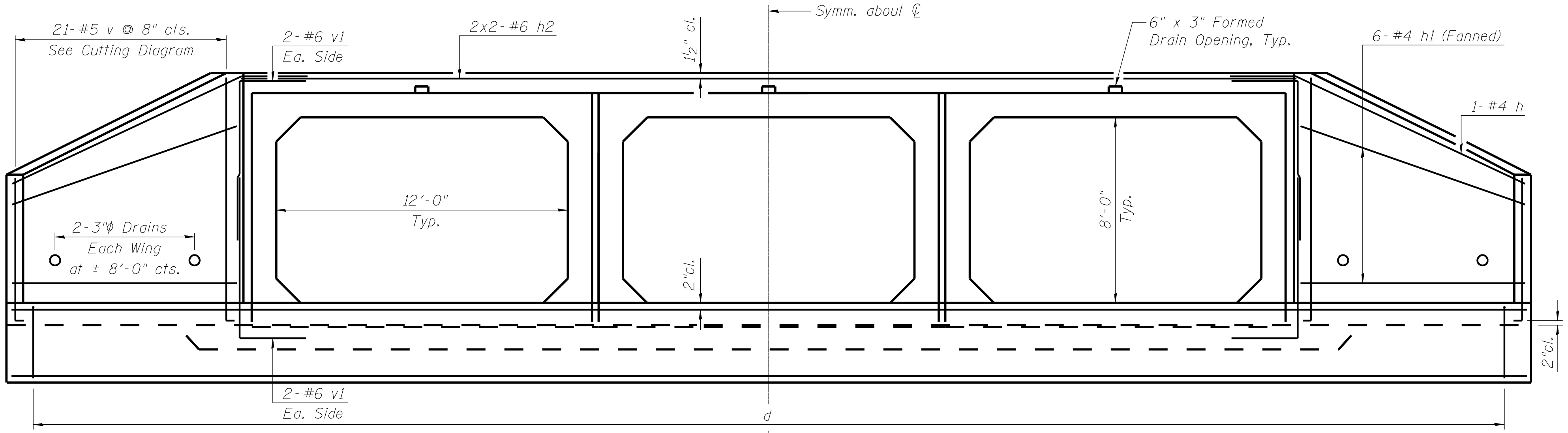


ROCK FILL PLAN

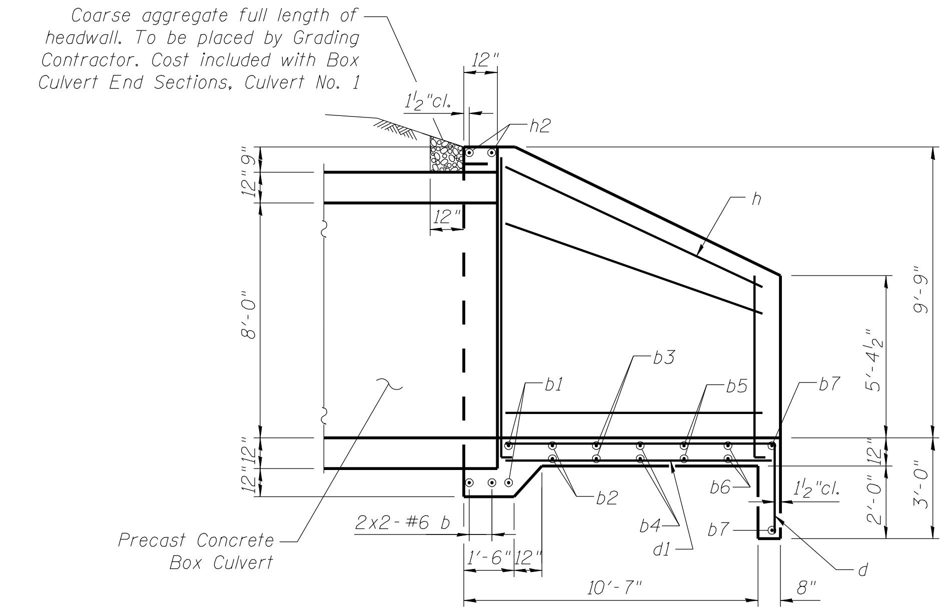
FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - RJP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL DATA S.N. 034-2523	
		CHECKED - ADL	REVISED -			
	PLOT SCALE = $SCALE$	DRAWN - RJP	REVISED -			
	PLOT DATE = $DATE$	CHECKED - ADL	REVISED -		SHEET NO. 3 OF 6 SHEETS	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
510	120B-3	HANCOCK	38	24
		CONTRACT NO. 72B67		
		ILLINOIS FED. AID PROJECT		

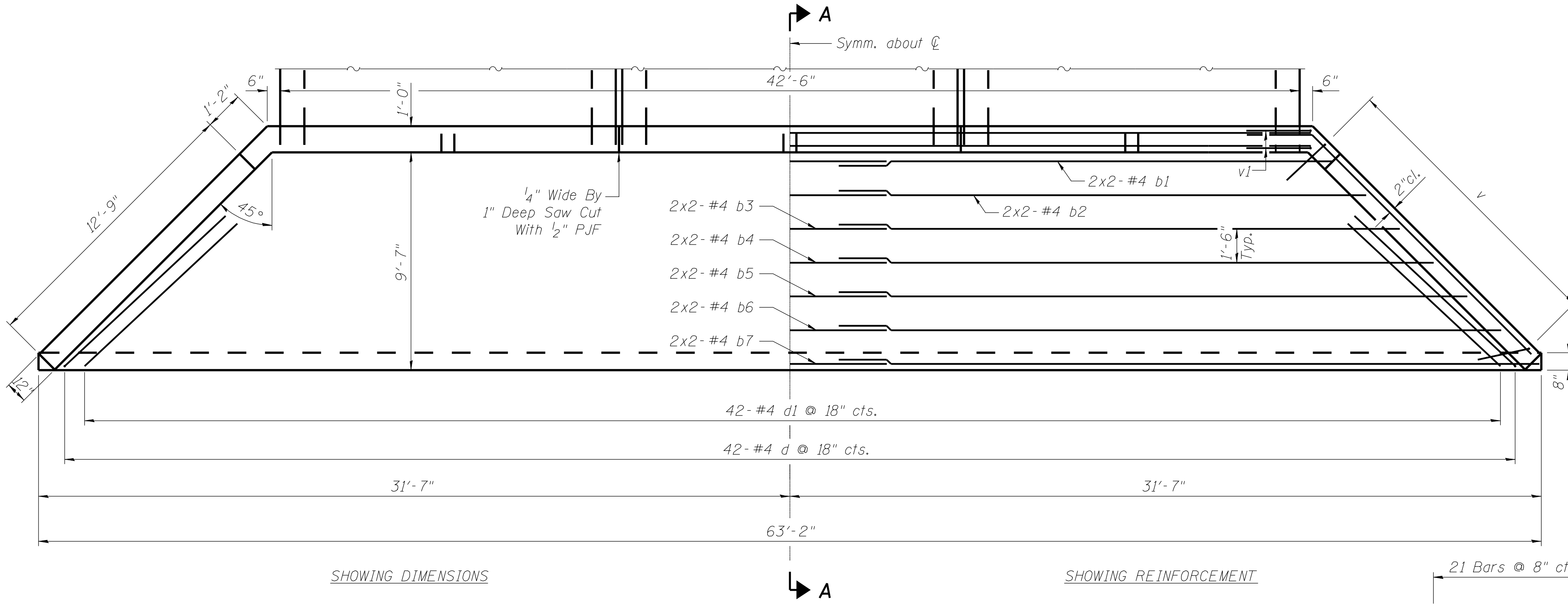
Klingner & Associates P.C.



END ELEVATION



SECTION A-A



PLAN

NOTES:

Bill of Material for two end sections.

Bar dimensions are out to out.

Not to scale or proper orientation.

Exposed edges shall be beveled ¾".

Headwall at 0° skew to culvert ℄.

Bars indicated thus 2x2-#4 etc. indicates 2 lines of bars with 2 lengths per line.

Minimum bar laps:
#6 bar = 2'-7"
#4 bar = 1'-9"

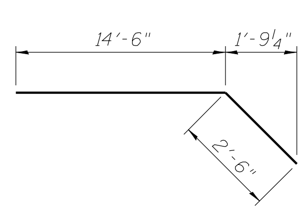
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
b	8	#6	22'-11"	
b1	8	#4	24'-2"	
b2	8	#4	25'-8"	
b3	8	#4	27'-2"	
b4	8	#4	28'-8"	
b5	8	#4	30'-2"	
b6	8	#4	31'-8"	
b7	8	#4	32'-8"	
d	84	#4	11'-11"	
d1	84	#4	9'-3"	
h	4	#4	17'-0"	
h1	24	#4	13'-8"	
h2	8	#6	22'-11"	
v	42	#5	20'-6"	
v1	16	#6	9'-2"	

	ITEM	UNIT	TOTAL
*	Reinforcement Bars	Pound	4,190
**	Box Culvert End Sections, Culvert No. 1	Each	2

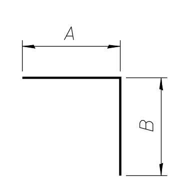
* Reinforcement Bars will not be paid for separately, but will be included in the cost of Box Culvert End Sections, Culvert No. 1 (See Std. Specifications)

** 2 End Sections = 67.9 Cu. Yd. Concrete



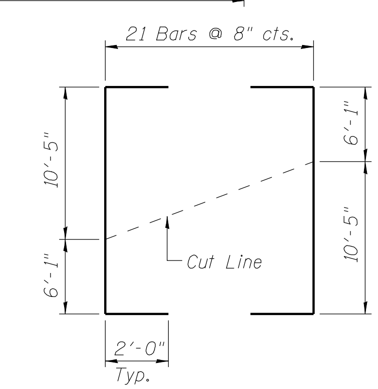
BAR h

(Bend in field)



Bar	A	B
d	9'-3"	2'-8"
v1	3'-0"	6'-2"

BARS d & v1

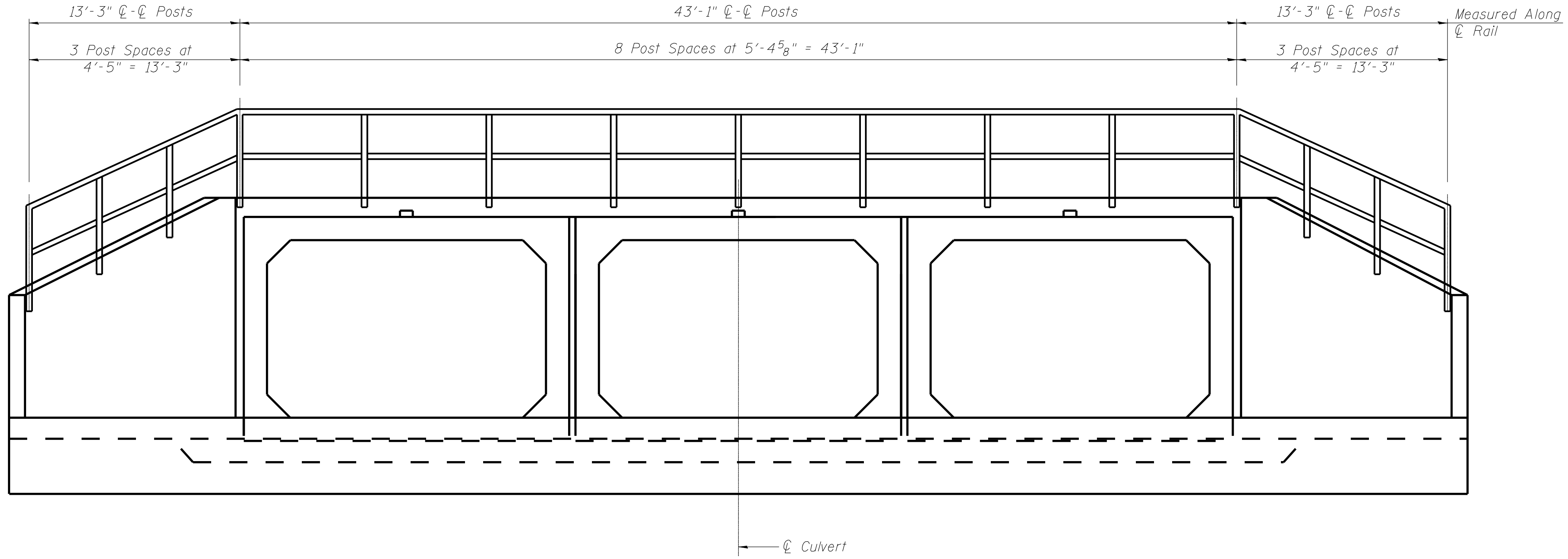


FIELD CUTTING DIAGRAM

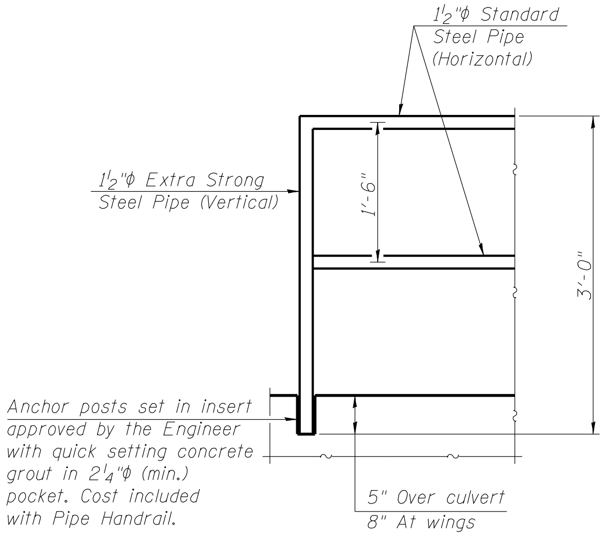
Note:
Order v bars full length. Cut as shown and use remainder of bars in opposite wing.

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - RJP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CAST-IN-PLACE END SECTION S.N. 034-2523	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED - ADL	REVISED -			510	120B-3	HANCOCK	38	25
	PLOT SCALE = $SCALE$	DRAWN - RJP	REVISED -			CONTRACT NO. 72B67				
	PLOT DATE = $DATE$	CHECKED - ADL	REVISED -		SHEET NO. 4 OF 6 SHEETS	ILLINOIS FED. AID PROJECT				

Klingner & Associates P.C.



END ELEVATION



RAILING DETAIL

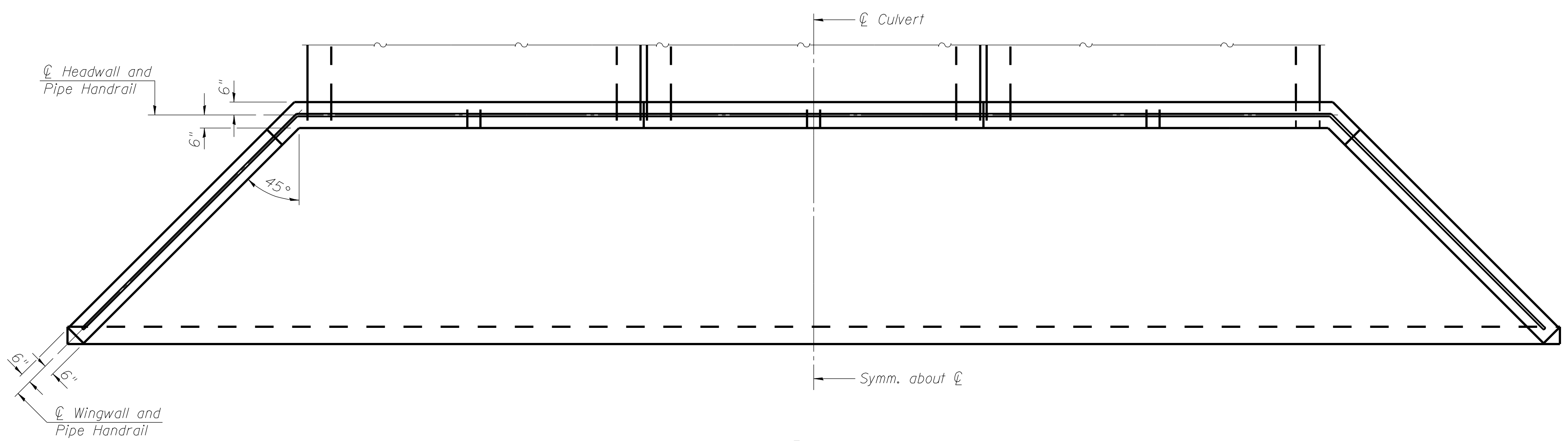
NOTES:

Handrail shall conform to the requirements of Section 509 of the Standard Specifications.

The Pipe Handrail shall be painted in accordance with Section 506 of the Standard Specifications. The finish coat shall match Munsell Glossy Color 5B 7/1 Gray.

All steel pipe shall be ASTM A53.

The unit cost per lineal foot for Pipe Handrail shall include furnishing and installing the posts, sleeves, fittings, grout, pipe, primer and paint.



PLAN

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Pipe Handrail	Foot	70

FILE NAME = $FILEL$	USER NAME = $USER$	DESIGNED - RJP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PIPE HANDRAIL DETAILS S.N. 034-2523
		CHECKED - ADL	REVISED -		
	PLOT SCALE = $SCALE$	DRAWN - RJP	REVISED -		
	PLOT DATE = $DATE$	CHECKED - ADL	REVISED -		SHEET NO. 5 OF 6 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
510	120B-3	HANCOCK	38	26
		CONTRACT NO. 72B67		
		ILLINOIS FED. AID PROJECT		

Klingner & Associates P.C.

BORING 1

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 1

Date 11/5/10

ROUTE FAP 510 DESCRIPTION Culvert carrying IL 96 over inlet ditch LOGGED BY M. Tappan

SECTION 120B-3 LOCATION NW 1/4, SEC. 19, TWP. 5N, RNG. 8W, 4 PM

COUNTY Hancock DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. 034-2523
Station 1032+44

BORING NO. 1-NA
Station 1031+84
Offset 22.0ft LT
Ground Surface Elev. 522.9 ft

Surface Water Elev. 517.8 ft
Stream Bed Elev. 516.1 ft

Groundwater Elev.:
▽ First Encounter 511.4 ft
▼ Upon Completion Washed ft
▼ After ___ Hrs. Plugged ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Grayish Brown Moist CLAY LOAM w/Brown Weathered Crystalline Limestone clasts			1		
			3	1.4	13
	519.90		6	B	
Lt Gray Broken Crystalline LIMESTONE not in-situ			2		
			10		
		-5	8		
			7		
			27		
			42		
BOTTOM OF BOX					
			2		
w/some Brown Med Sand			7		
	512.90	-10	5		
Brown Wet SAND to SAND LOAM FREE WATER ▽			1		
			1		
			3		
Gray Dirty Med Sandy Gravel w/angular Cherty Limestone			1		
			3		
		-15	2		
Brown Drity Med to Coarse Sand			0		
			0		
			0		
			WOH		
Brown Drity Med to Coarse Sand to Sand Loam			0		
		-20	0		
Poor Recovery Brown Wet SAND to SAND LOAM FREE WATER *(continued)*			0		
			WOH		
			1		
Gray Dirty Angular Med Gravel to Gray Fine Grained Poorly Indurated Sandstone Cobble			4		
	499.90		17		
Gray Dirty Angular LIMESTONE GRAVEL Residuum			1		
			3		
		-25	3		
			100/3"		
Gray Mod Indurated Crystalline LIMESTONE	492.90	-30			
Boring Complete		-35			
		-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
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)

File Name S:\SOILS\GINT FILES\HANCOCK\034-2523 IL 96 OVER INLET DITCH.GPJ Data Template D6TEMPLT.GDT Date Printed 3/21/11
Latitude 40D 24.882N Longitude 91D 21.494W Datum NAD83 Job Number

BORING 2

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 1

Date 11/5/10

ROUTE FAP 510 DESCRIPTION Culvert carrying IL 96 over inlet ditch LOGGED BY M. Tappan

SECTION 120B-3 LOCATION NW 1/4, SEC. 19, TWP. 5N, RNG. 8W, 4 PM

COUNTY Hancock DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. 034-2523
Station 1032+44

BORING NO. 2-Pier
Station 1032+66
Offset 30.0ft LT
Ground Surface Elev. 518.7 ft

Surface Water Elev. 517.8 ft
Stream Bed Elev. 516.1 ft

Groundwater Elev.:
▽ First Encounter 515.2 ft
▼ Upon Completion Washed ft
▼ After ___ Hrs. Plugged ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray Wet SILTY CLAY LOAM w/ Organic Matl FREE WATER					
Bottom of Box ▽			0		
			2	0.3	77
			2	B	
		-5			
			0		
Dk Gray Wet Silty Clay Loam w/ Organic Matl 3" Gray Fine Sand Seam			1	0.1	40
			0	B	
			0		
Dk Gray Wet Silty Clay Loam w/ Organic Matl			0	0.1	37
			1	B	
	508.70	-10			
Dk Gray Wet LOAM w/ Organic Matl			0		
			0	0.0	37
			0	Slump	
	505.20		WOH		
Gray V. Dirty Angular LIMESTONE GRAVEL		-15			
	500.20		7		
Gray Mod Indurated Crystalline LIMESTONE WASHED	499.20		100/4"		
		-20			
Auger Refusal at 19'					
Boring Complete		-25			
		-30			
		-35			
		-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
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)

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Latitude 40D 24.857N Longitude 91D 21.491W Datum NAD83 Job Number

BORING 3

Illinois Department of Transportation
Division of Highways
District 6

SOIL BORING LOG

Page 1 of 1

Date 11/5/10

ROUTE FAP 510 DESCRIPTION Culvert carrying IL 96 over inlet ditch LOGGED BY M. Tappan

SECTION 120B-3 LOCATION NW 1/4, SEC. 19, TWP. 5N, RNG. 8W, 4 PM

COUNTY Hancock DRILLING METHOD HSA HAMMER TYPE 140# Auto

STRUCT. NO. 034-2523
Station 1032+44

BORING NO. 3-SA
Station 1033+50
Offset 15.0ft RT
Ground Surface Elev. 529.7 ft

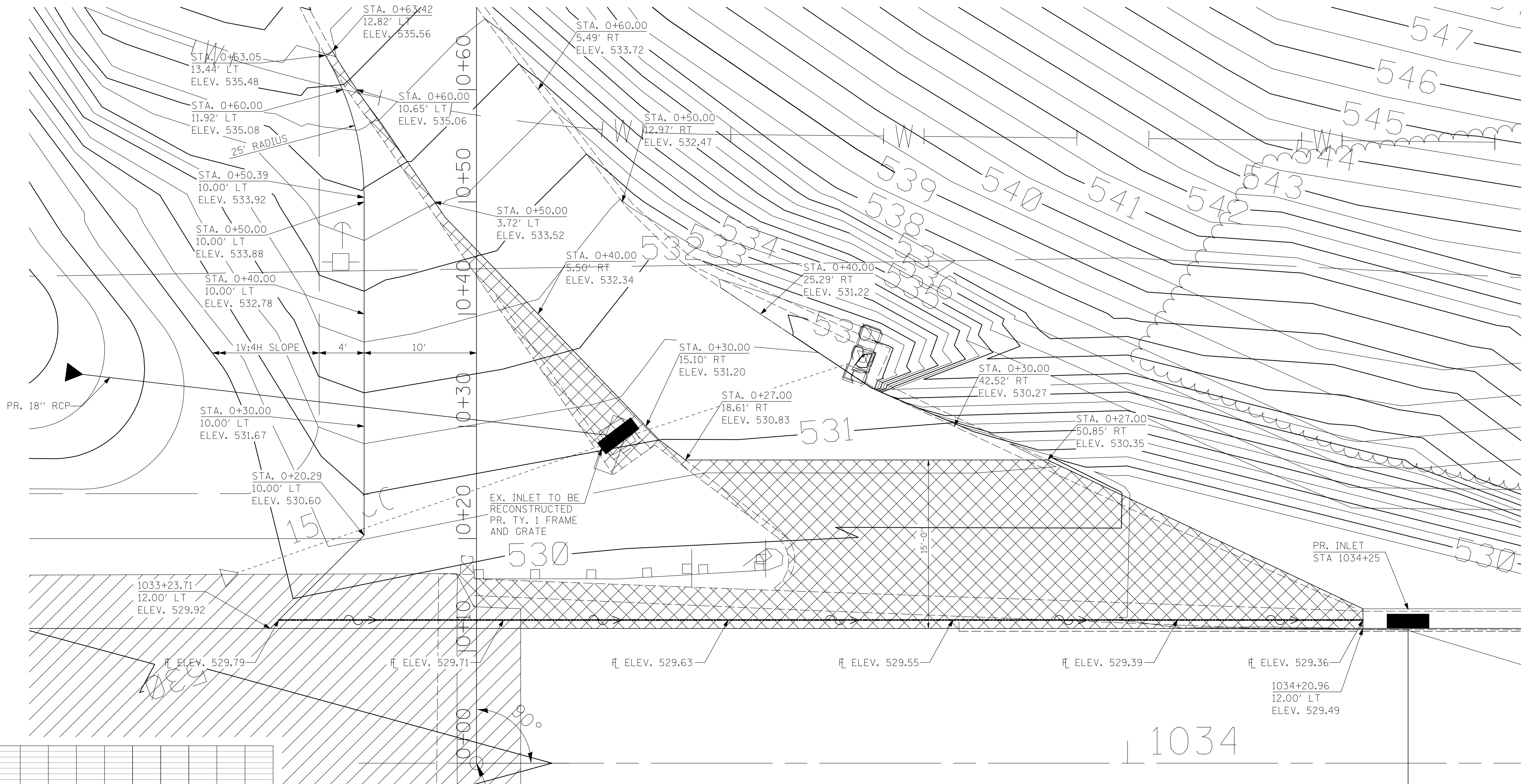
Surface Water Elev. 517.8 ft
Stream Bed Elev. 516.1 ft

Groundwater Elev.:
▽ First Encounter No Encounter ft
▼ Upon Completion Dry ft
▼ After ___ Hrs. Plugged ft

Description	Elev.	DEPTH (ft)	BLOWS (/6")	UCS Qu (tsf)	MOIST (%)
Gray Dirty Med SANDY GRAVEL (Fill)			1		
			9		
	526.70		7		
Brown Moist CLAY LOAM w/ Angular Limestone Gravel			1		
			3	0.9	23
		-5	2	B	
			1		
			3	1.1	15
Limestone Cobble at 7'	521.70		17	B	
Gray Mod Indurated Crystalline LIMESTONE Auger Refusal at 9.5'			37		
			70		
	519.70	-10	30/1"		
Boring Complete		-15			
		-20			

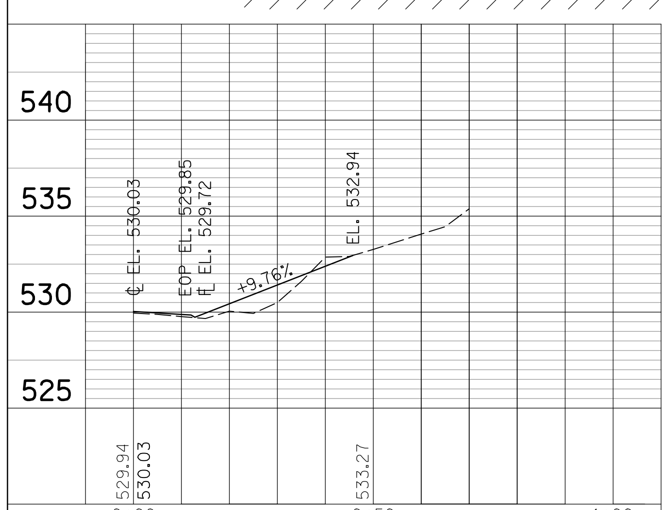
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated)
Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

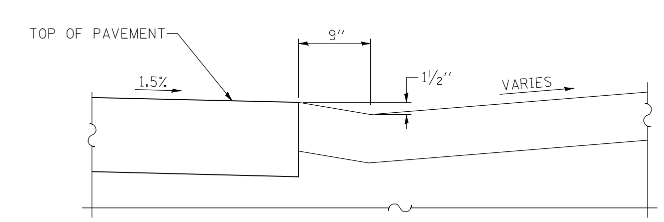
File Name S:\SOILS\GINT FILES\HANCOCK\034-2523 IL 96 OVER INLET DITCH.GPJ Data Template D6TEMPLT.GDT Date Printed 3/21/11
Latitude 40D 24.858N Longitude 91D 21.483W Datum NAD83 Job Number



SOUTH PRIVATE ENTRANCE PLAN VIEW

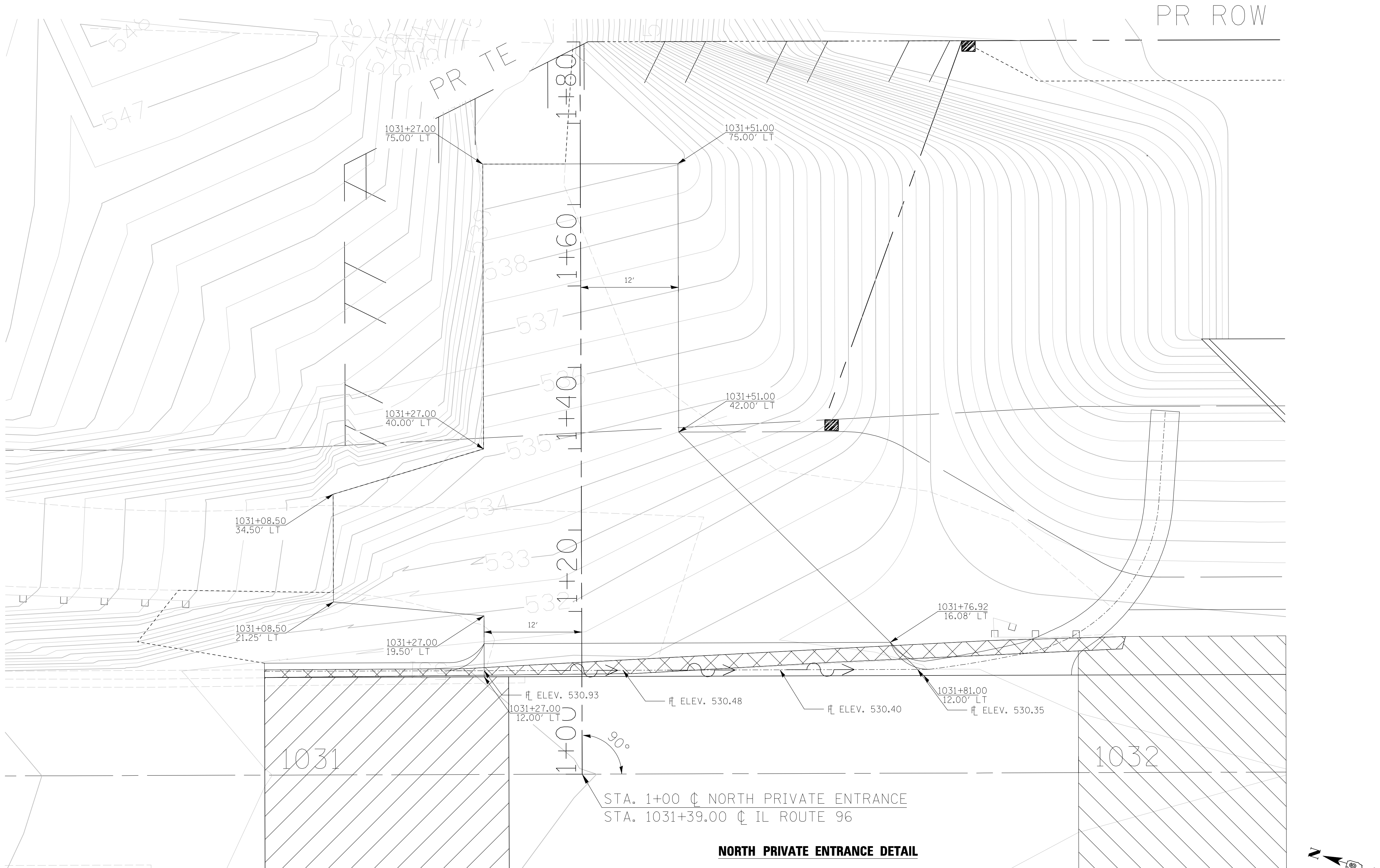
STA. 0+00 ℄ SOUTH PRIVATE ENTRANCE
STA. 1033+42.06 ℄ IL ROUTE 96





GUTTER DETAILS

FILE NAME = …\D672B67-sht-pe dets.dgn	USER NAME = Plotted by Roadways7	DESIGNED - KHH	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOUTH PRIVATE ENTRANCE DETAILS	F.A.P. RTE. 510	SECTION 120B-3	COUNTY HANCOCK	TOTAL SHEETS 38	SHEET NO. 28
		DRAWN - KHH	REVISED -							
	PLOT SCALE = 10.0000 ' / IN.	CHECKED -	REVISED -			CONTRACT NO. 72B67				
	PLOT DATE = 10/19/2012	DATE - 9/2012	REVISED -		SCALE: N/A SHEET 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 6	ILLINOIS	FED. AID PROJECT		



NORTH PRIVATE ENTRANCE DETAIL

LIN ENGINEERING, LTD. Consulting Engineers Westmont, Illinois	USER NAME = Plotted by Roadways7	DESIGNED - RC	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	NORTH PRIVATE ENTRANCE DETAILS
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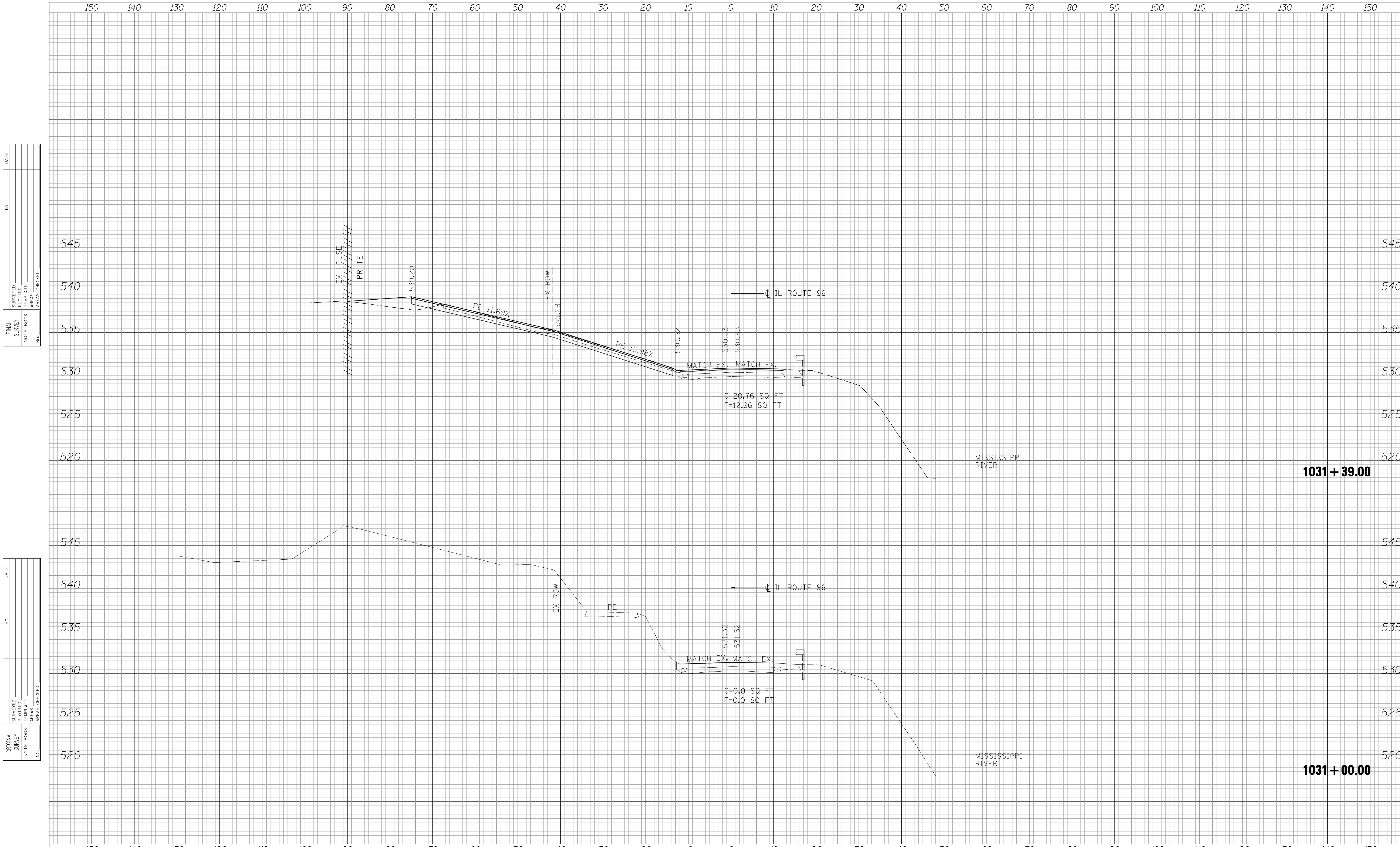
	PLOT DATE = 10/19/2012	DATE - 10/2012	REVISED -		SCALE: N/A	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
510	120B-3	HANCOCK	38	29
		CONTRACT NO. 72B67		
FED. ROAD DIST. NO. 6	ILLINOIS	FED. AID PROJECT		



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		DRAWN - SGL	REVISED -
	PLOT SCALE = 20.0000 ' / IN.	CHECKED - FML	REVISED -
	PLOT DATE = 10/19/2012	DATE - 9/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

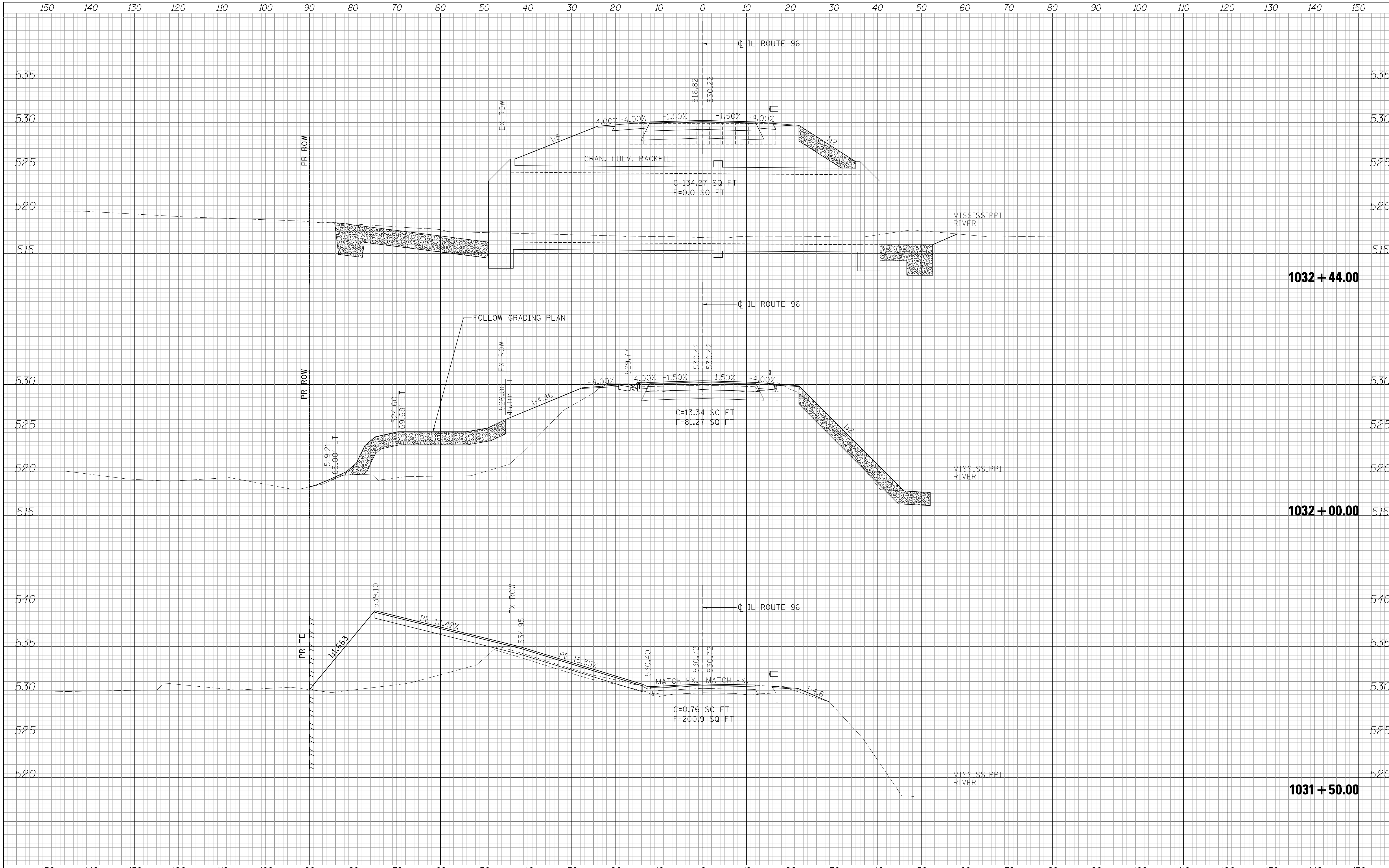
IL ROUTE 96 OVER INLET DITCH
CROSS SECTIONS

SCALE: 1"=10'H, 5'V | SHEET 01 OF 05 SHEETS | STA. 1031+00.00 TO STA.1031+39.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
510	120B-3	HANCOCK	38	30

CONTRACT NO. 72B67

FED. ROAD DIST. NO. 6 | ILLINOIS | FED. AID PROJECT



FINAL SURVEY | NOTE BOOK NO. | SURVEYED / PLOTTED / TEMPLATE / AREAS / AREAS CHECKED | BY | DATE

ORIGINAL SURVEY | NOTE BOOK NO. | SURVEYED / PLOTTED / TEMPLATE / AREAS / AREAS CHECKED | BY | DATE

LIN ENGINEERING, LTD.
Consulting Engineers
Westmont, Illinois

USER NAME = Plotted by Roadways7	DESIGNED - SGL	REVISED -
	DRAWN - SGL	REVISED -
PLOT SCALE = 20.0000 ' / IN.	CHECKED - FML	REVISED -
PLOT DATE = 10/19/2012	DATE - 9/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

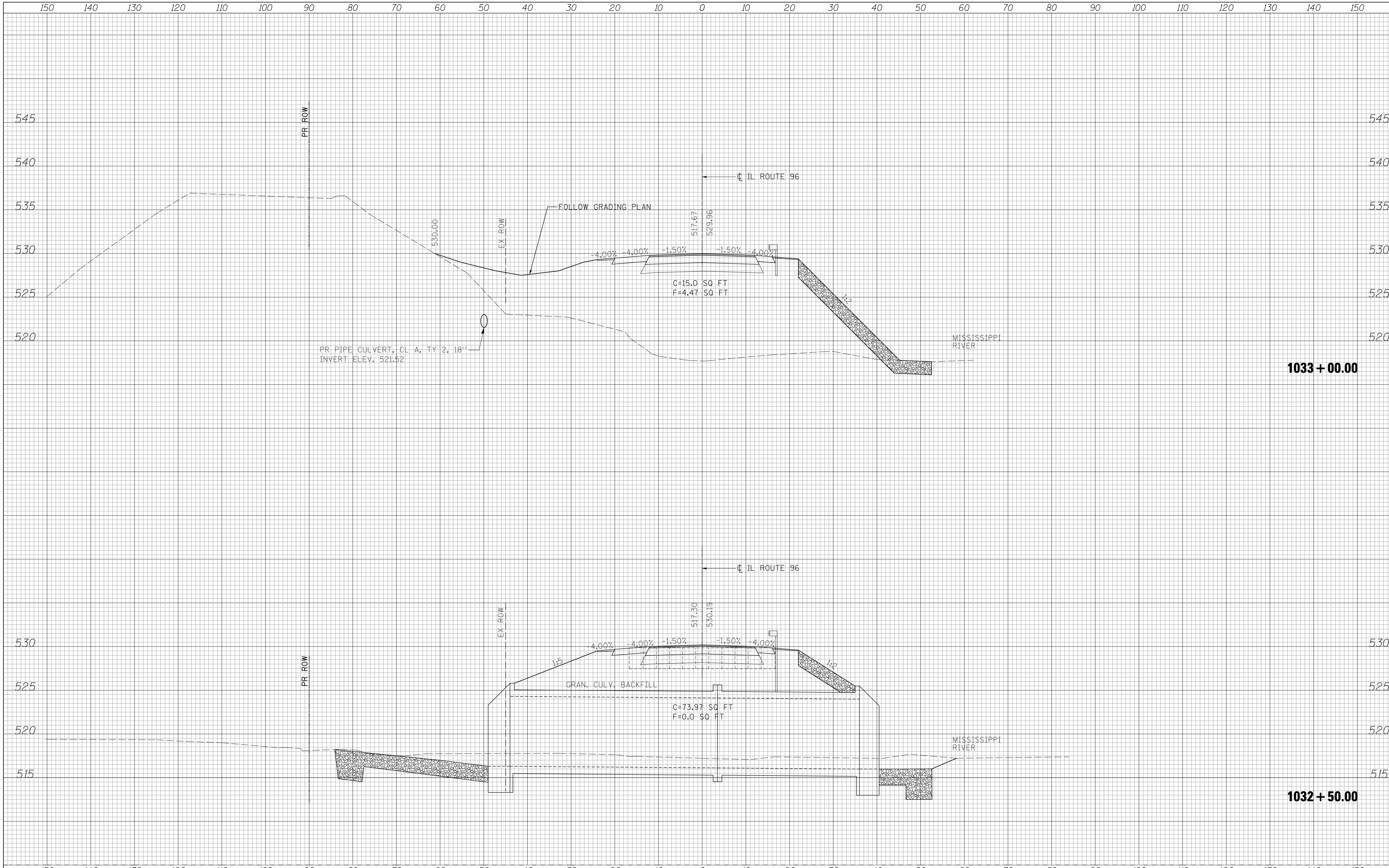
IL ROUTE 96 OVER INLET DITCH
CROSS SECTIONS

SCALE: 1"=10'H, 5'V | SHEET 02 OF 05 SHEETS | STA. 1031+50.00 TO STA.1032+44.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
510	120B-3	HANCOCK	38	31

CONTRACT NO. 72B67

FED. ROAD DIST. NO. 6 | ILLINOIS | FED. AID PROJECT



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ORIGINAL SURVEY | NOTE BOOK NO. | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

LIN ENGINEERING, LTD.
Consulting Engineers
Westmont, Illinois

USER NAME = Plotted by Roadways7	DESIGNED - SGL	REVISED -
	DRAWN - SGL	REVISED -
PLOT SCALE = 20.0000 ' / IN.	CHECKED - FML	REVISED -
PLOT DATE = 10/19/2012	DATE - 9/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

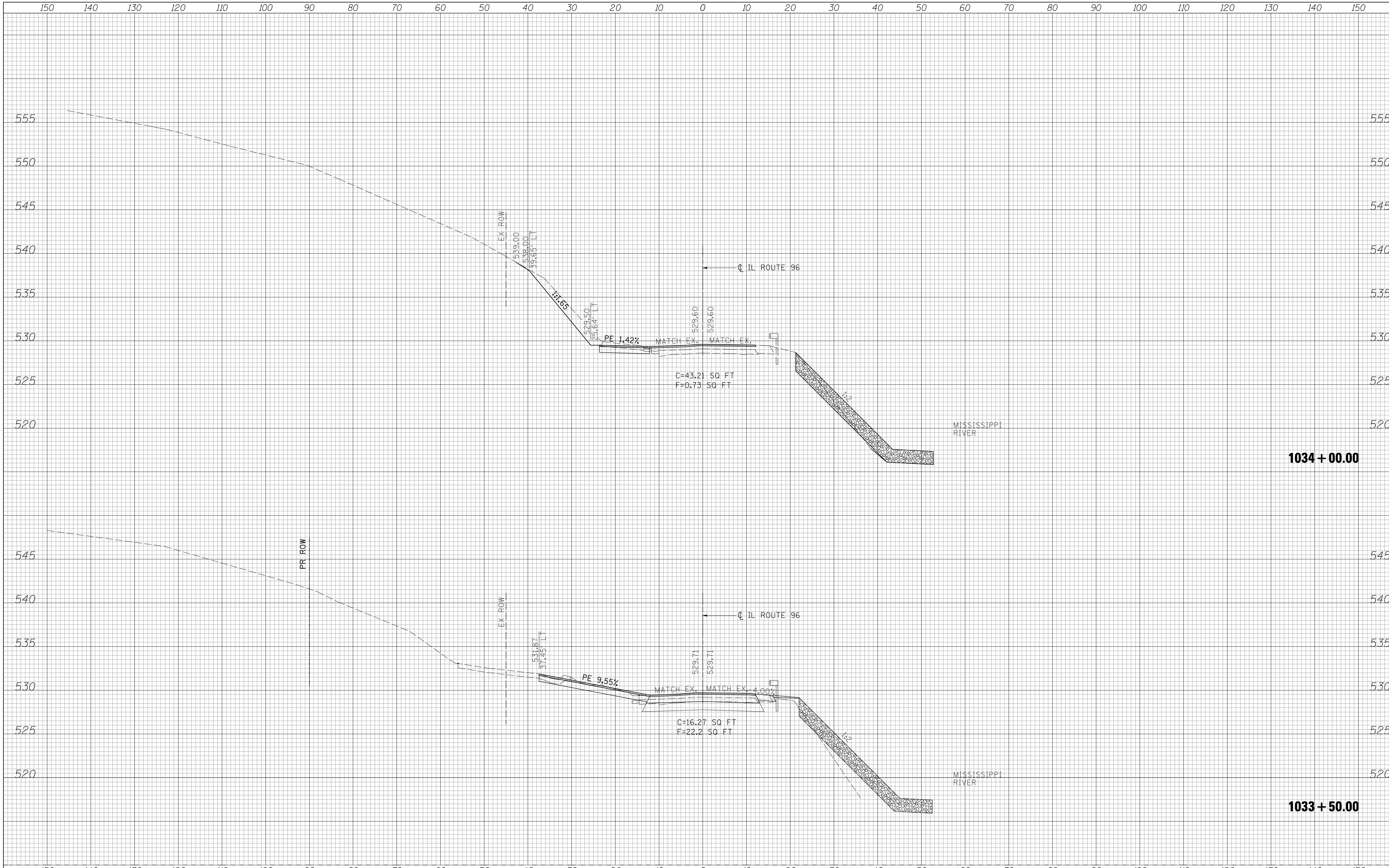
IL ROUTE 96 OVER INLET DITCH
CROSS SECTIONS

SCALE: 1"=10'H, 5'V | SHEET 03 OF 05 SHEETS | STA. 1032+50.00 TO STA.1033+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
510	120B-3	HANCOCK	38	32

CONTRACT NO. 72B67

FED. ROAD DIST. NO. 6 | ILLINOIS | FED. AID PROJECT



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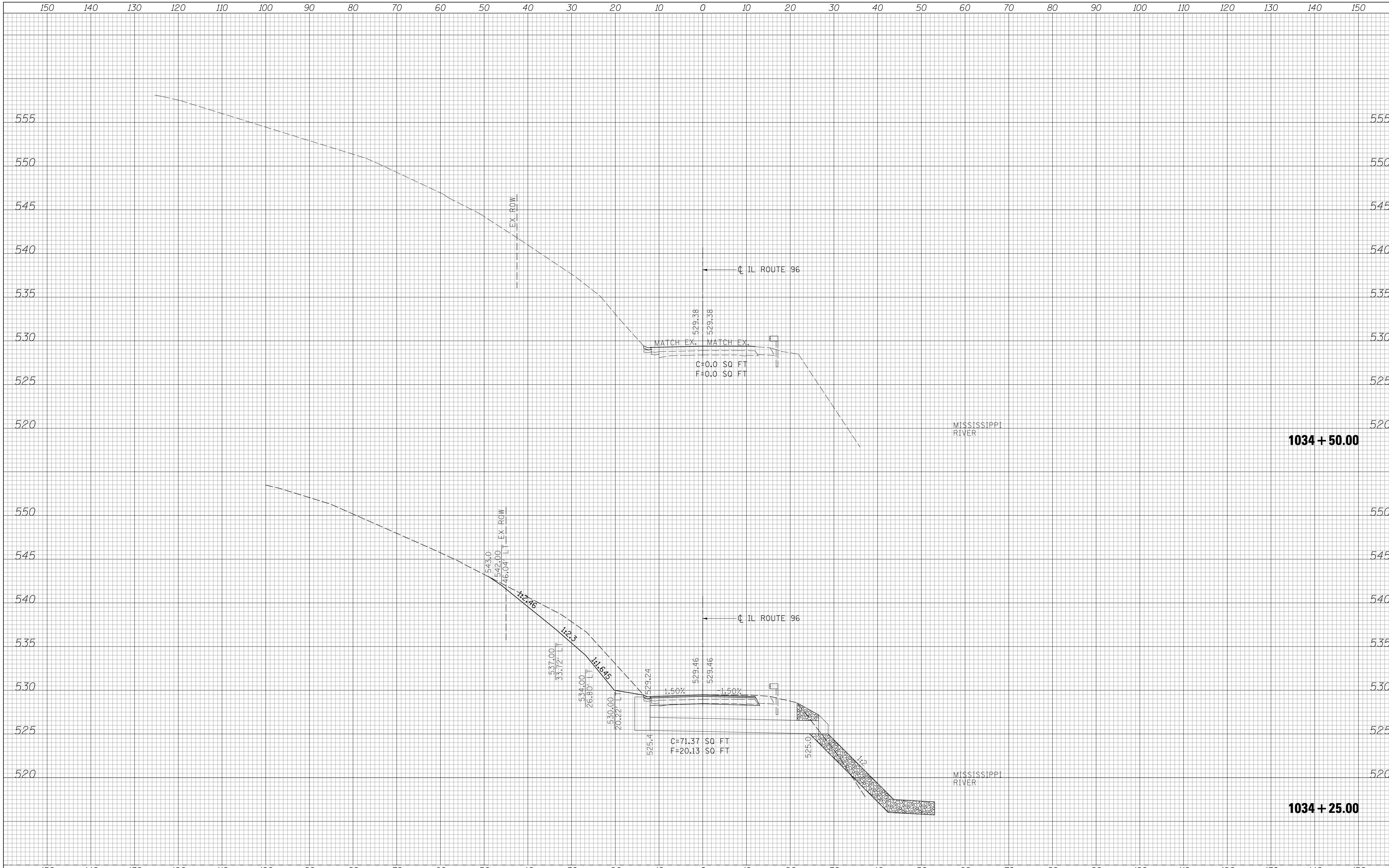
LIN ENGINEERING, LTD. Consulting Engineers Westmont, Illinois	USER NAME = Plotted by Roadways7	DESIGNED - SGL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 96 OVER INLET DITCH CROSS SECTIONS
		DRAWN - SGL	REVISED -		
	PLOT SCALE = 20.0000 ' / IN.	CHECKED - FML	REVISED -		
	PLOT DATE = 10/19/2012	DATE - 9/2012	REVISED -		SCALE: 1"=10'H, 5'V SHEET 04 OF 05 SHEETS STA. 1033+50.00 TO STA. 1034+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
510	120B-3	HANCOCK	38	33
		CONTRACT NO. 72B67		
FED. ROAD DIST. NO. 6	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY: NOTE BOOK NO. ___ SURVEYED ___ PLOTTED ___ TEMPLATE ___ AREAS ___ AREAS CHECKED ___ | BY | DATE

ORIGINAL SURVEY: NOTE BOOK NO. ___ SURVEYED ___ PLOTTED ___ TEMPLATE ___ AREAS ___ AREAS CHECKED ___ | BY | DATE

LIN ENGINEERING, LTD.
Consulting Engineers
Westmont, Illinois

USER NAME = Plotted by Roadways7	DESIGNED - SGL	REVISED -
	DRAWN - SGL	REVISED -
PLOT SCALE = 20.0000 ' / IN.	CHECKED - FML	REVISED -
PLOT DATE = 10/19/2012	DATE - 9/2012	REVISED -

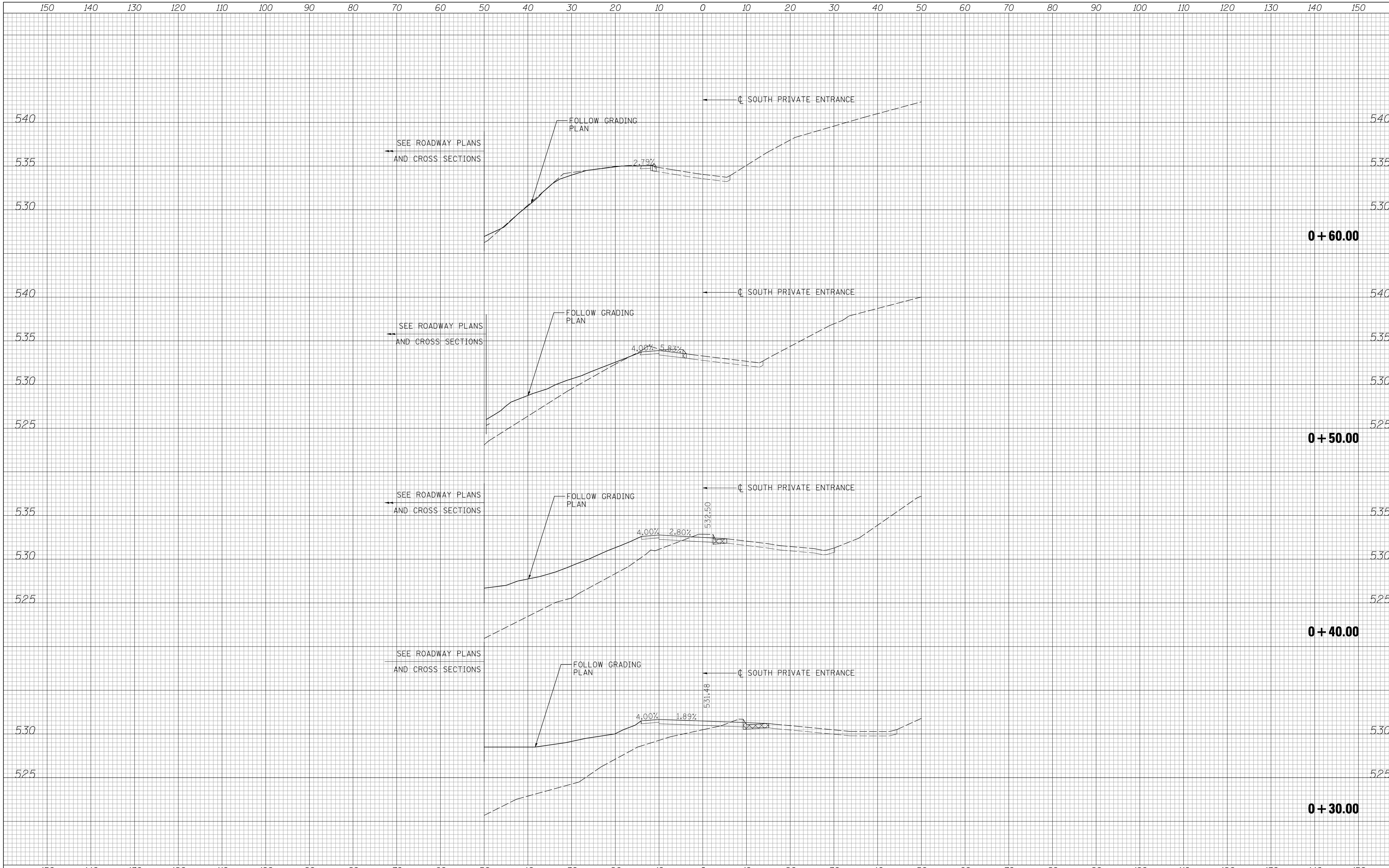
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 96 OVER INLET DITCH
CROSS SECTIONS

SCALE: 1"=10'H, 5'V | SHEET 05 OF 05 SHEETS | STA. 1034+25.00 TO STA. 1034+50.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
510	120B-3	HANCOCK	38	34
		CONTRACT NO. 72B67		

FED. ROAD DIST. NO. 6 | ILLINOIS | FED. AID PROJECT



FINAL SURVEY NOTE BOOK NO. SURVEYED PLOTTED TEMPLATE AREAS AREAS CHECKED BY DATE

ORIGINAL SURVEY NOTE BOOK NO. SURVEYED PLOTTED TEMPLATE AREAS AREAS CHECKED BY DATE

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XS.SHEET	PLOT DATE = 10/19/2012	DATE - 9/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 96 OVER INLET DITCH
PE CROSS SECTIONS

SCALE: 1"=10'H, 5'V | SHEET 1 OF 1 SHEETS | STA. 00+30.00 TO STA. 00+60.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
510	120B-3	HANCOCK	38	35
		CONTRACT NO. 72B67		

FED. ROAD DIST. NO. 6 | ILLINOIS | FED. AID PROJECT

FINAL SURVEY
NOTE BOOK NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

ORIGINAL SURVEY
NOTE BOOK NO.
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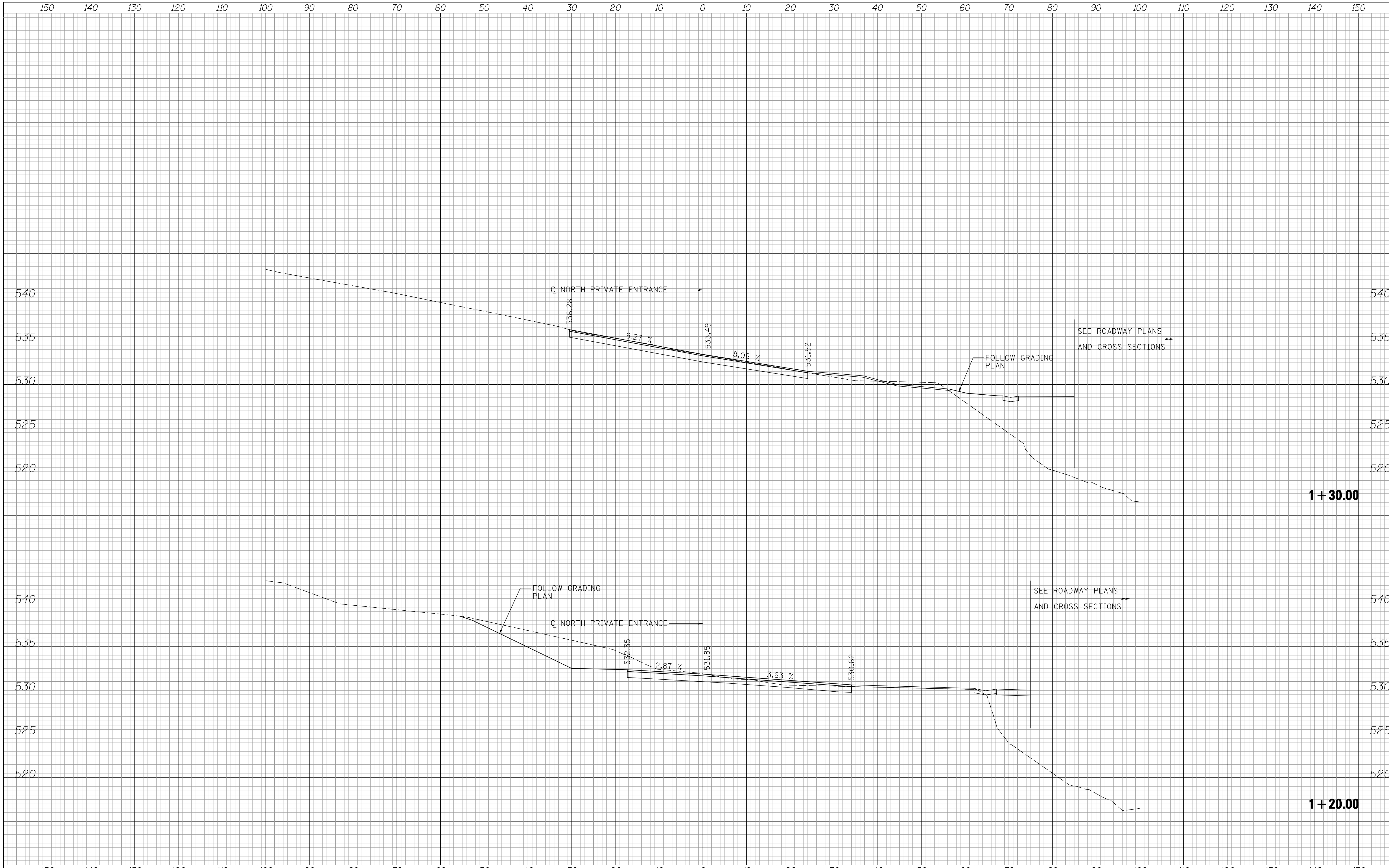
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE



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$MODELNAME$	PLOT DATE = 10/19/2012	DATE - 10/2012	REVISED -

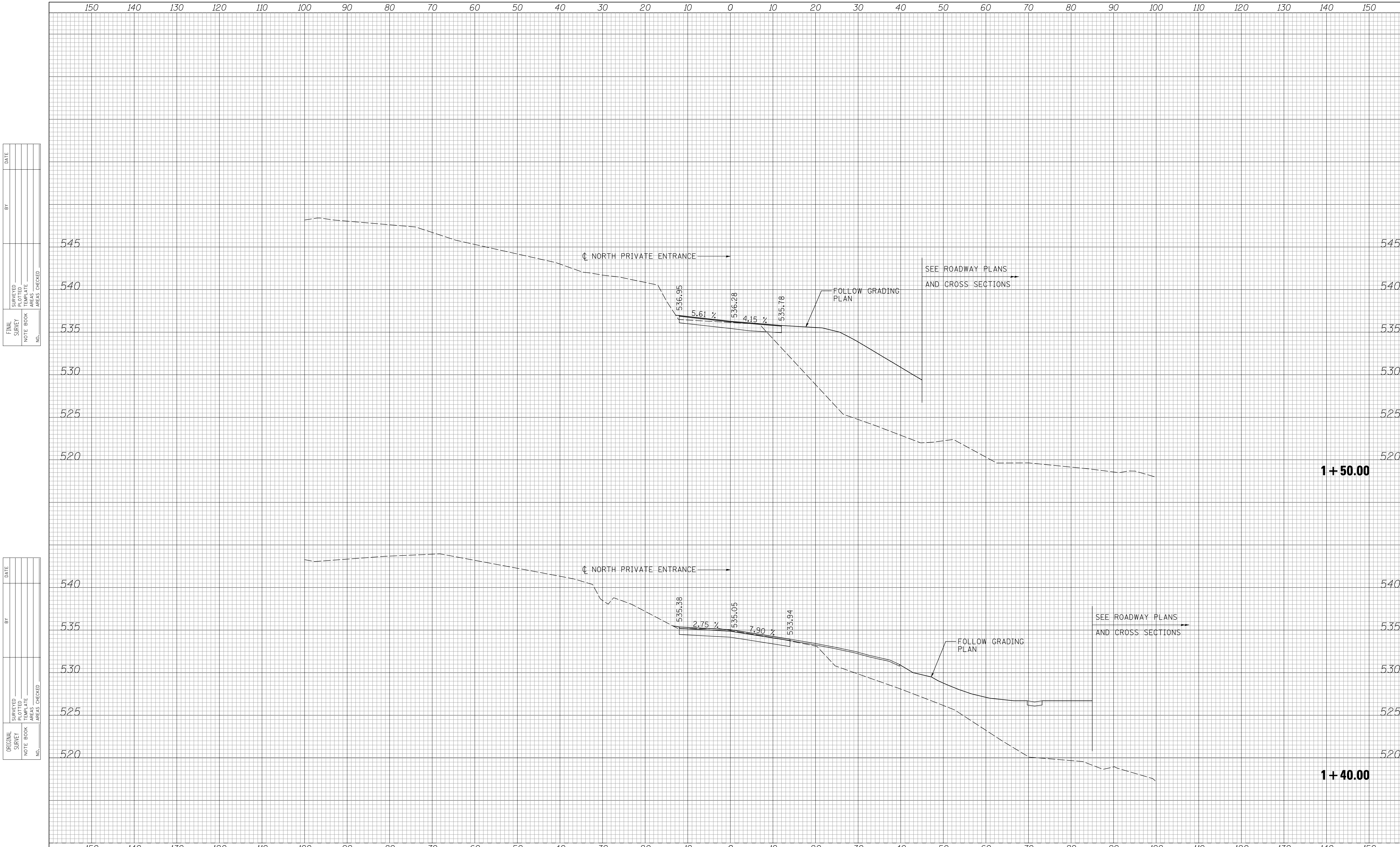
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 96 OVER INLET DITCH
NORTH PE CROSS SECTIONS

SCALE: 1'=10'H, 5'V | SHEET 01 OF 03 SHEETS | STA. 1+20.00 TO STA.1+30.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
510	510	HANCOCK	38	36
		CONTRACT NO. 72B67		

FED. ROAD DIST. NO. 6 | ILLINOIS | FED. AID PROJECT



FILE NAME =	USER NAME = Plotted by Roadways7	DESIGNED - RC	REVISED -
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	PLOT SCALE = 20.0000 ' / IN.	CHECKED - AS	REVISED -
$MODELNAME$	PLOT DATE = 10/19/2012	DATE - 10/2012	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 96 OVER INLET DITCH
NORTH PE CROSS SECTIONS

SCALE: 1'=10'H, 5'V | SHEET 02 OF 03 SHEETS | STA. 1+40.00 TO STA.1+50.00

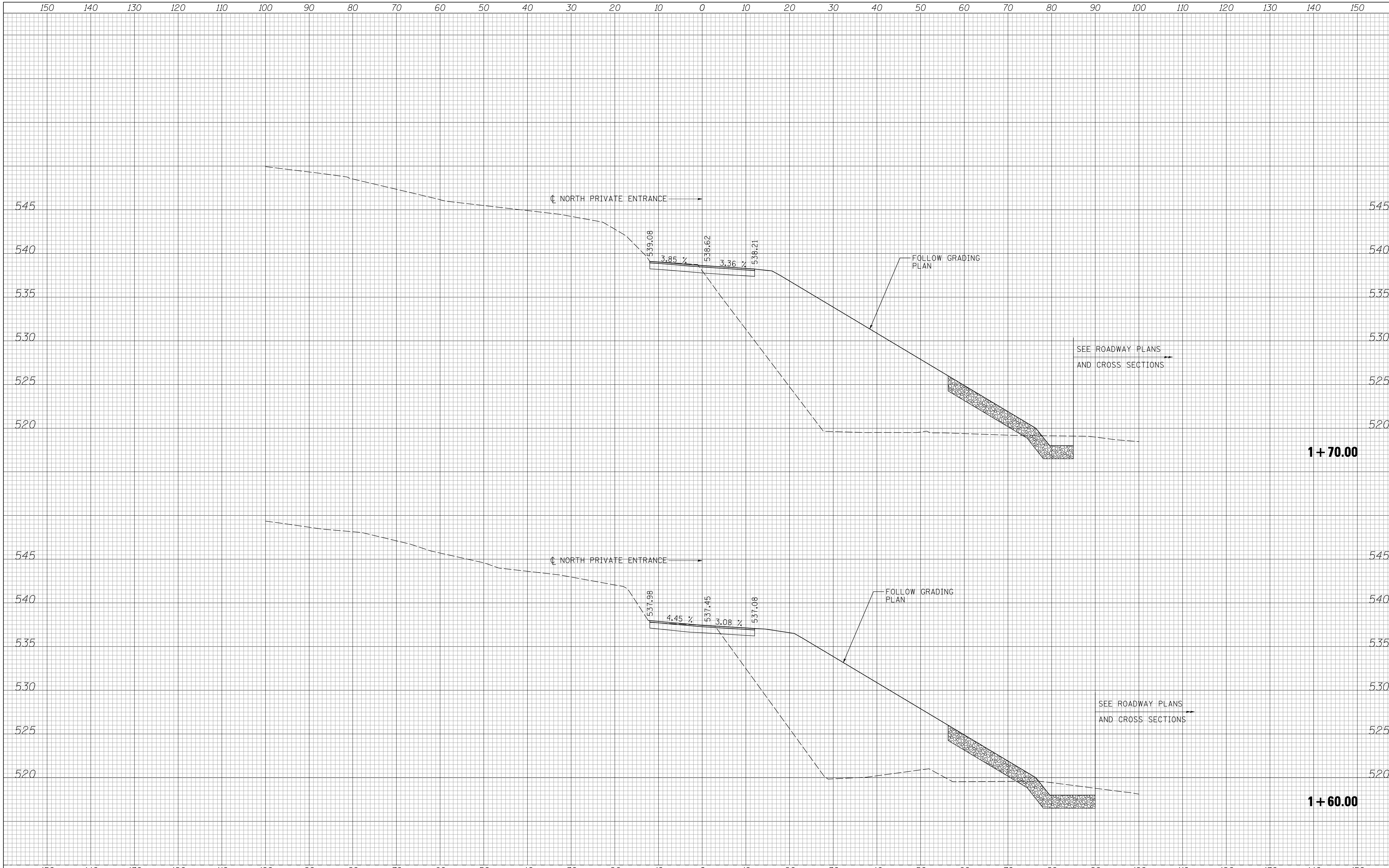
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
510	510	HANCOCK	38	37

CONTRACT NO. 72B67

FED. ROAD DIST. NO. 6 | ILLINOIS | FED. AID PROJECT

FINAL SURVEY	NOTE BOOK NO.	SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED
BY		
DATE		

ORIGINAL SURVEY	NOTE BOOK NO.	SURVEYED, PLOTTED, TEMPLATE, AREAS, AREAS CHECKED
BY		
DATE		



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		DRAWN - RC	REVISED -		
	PLOT SCALE = 20.0000 ' / IN.	CHECKED - AS	REVISED -		
$MODELNAME$	PLOT DATE = 10/19/2012	DATE - 10/2012	REVISED -		SCALE: 1"=10'H, 5'V · SHEET 03 OF 03 SHEETS · STA. 1+60.00 TO STA.1+70.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
510	510	HANCOCK	38	38
		CONTRACT NO. 72B67		
FED. ROAD DIST. NO. 6	ILLINOIS	FED. AID PROJECT		