

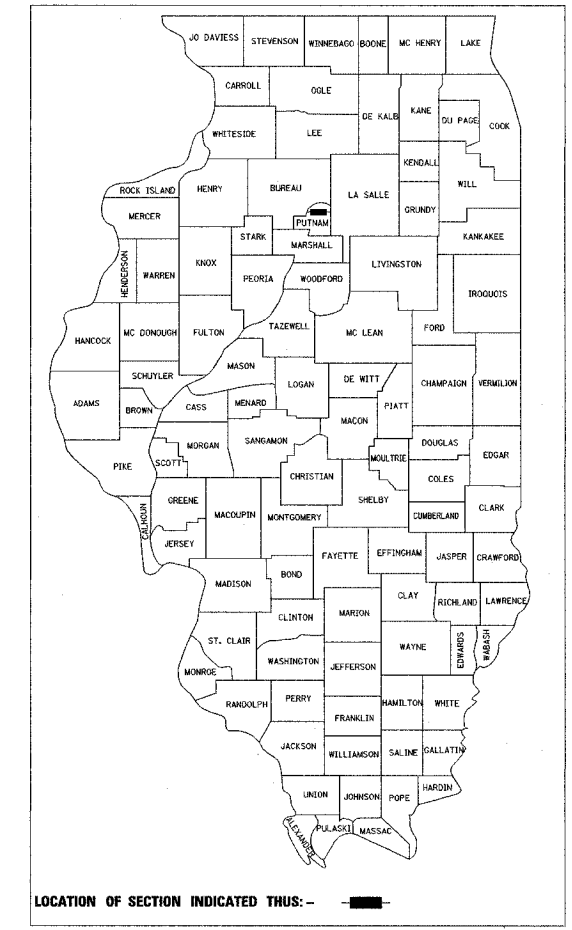
P-93-054-93
D-93-045-05

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	(120) BR-1	PUTNAM	32	1
FED. ROAD DIST. NO. 7		ILLINOIS	PROJECT	

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR STATE STANDARDS, SEE SHEET NO. 2

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**

F.A.P. ROUTE 619 (ILLINOIS ROUTE 71)
SECTION (120) BR-1
PROJECT NO. F-0619(018)
PUTNAM COUNTY
C-94-055-06
STRUCTURE NO. 078-0031 REPLACEMENT

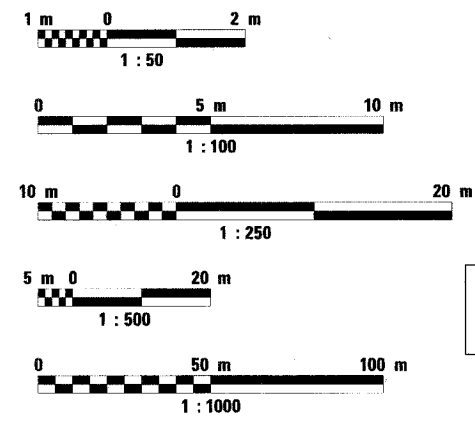


FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL
ADT=5,595 (2003)
P.C.=88.6% S.U.=3.2% M.U.=8.2%

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 SCALES BELOW MAY BE USED.

METRIC RATIOS

PLAN	PROFILE HORIZ.	PROFILE VERT.	CROSS SECTIONS
1:500	1:500	1:50	1:100 (HORIZ)
		1:50 (VERT)	



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

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

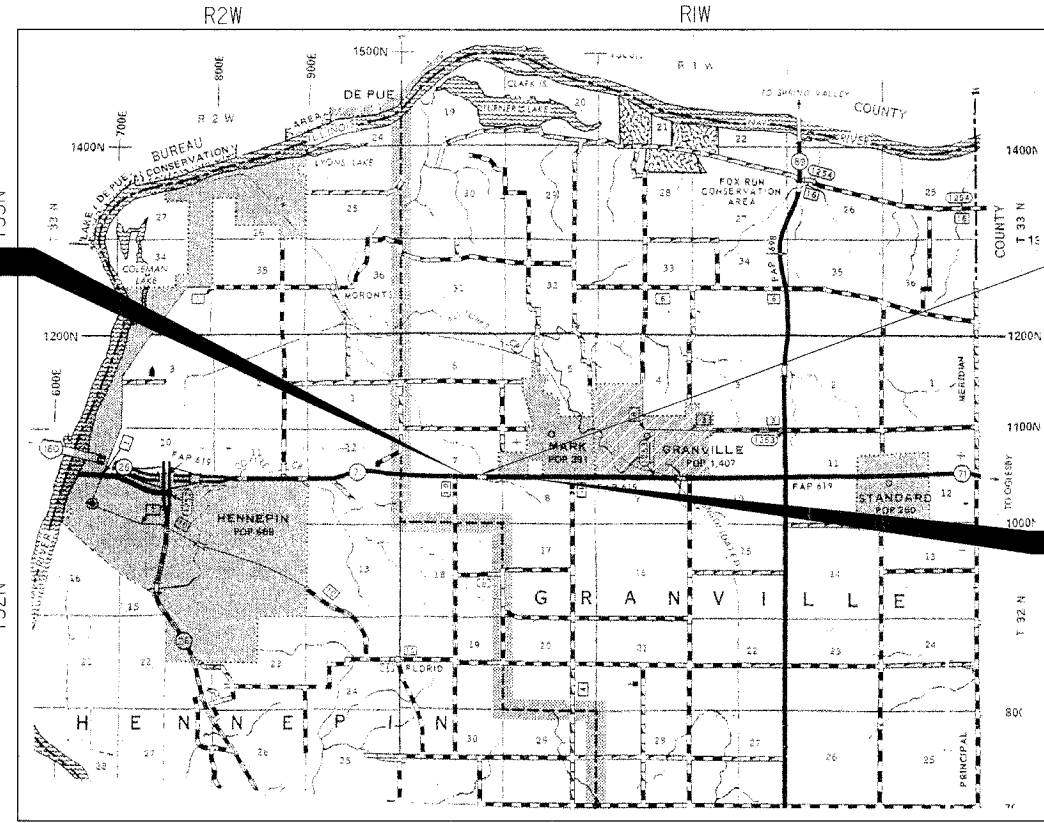
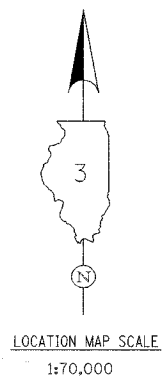
DISTRICT 3 NO. (815) 434-6131
DISTRICT 4 NO. (309) 671-3333
PROJECT ENGINEER: DAVE BROVIAK
UNIT CHIEF: MARK JONES
TOWNSHIP: GRANVILLE

CONTRACT NO. 68581

PROJECT BEGINS
STATION 9+175
ILLINOIS ROUTE 71

STA. 9+268.5
SN 078-2008
PR DOUBLE 3.0m x 2.4m BOX CULVERT
REPLACING SN 078-0031
26.9m x 6.0m

PROJECT ENDS
STATION 9+375
ILLINOIS ROUTE 71



PROJECT LENGTH: _____
LOCATION MAP
NET LENGTH OF SECTION = 200 m = 0.20 km
GROSS LENGTH OF SECTION = 200 m = 0.20 km



9-1-06
MICHAEL J. LEV, P.E.
NO. 062-055367
EXP. DATE 11/30/07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Oct. 20 2006
[Signature] REGION ENGINEER

PASSED _____ 20____
ENGINEER OF PROJECT DEVELOPMENT AND IMPLEMENTATION

PASSED December 8, 2006
[Signature] ENGINEER OF DESIGN AND ENVIRONMENT

APPROVED December 8, 2006
[Signature] DIRECTOR, DIVISION OF HIGHWAYS



RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	(020) BR-1	PUTNAM	28	2
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

GENERAL NOTES

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

THE BITUMINOUS SURFACE OF ALL MAILBOX TURNOUTS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES, AND SIDE ROADS SHALL BE MADE NEATLY, IN A WORKMANLIKE MANNER, AND SHALL ACCURATELY CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. IF REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL BE REQUIRED TO SAW CUT THE BITUMINOUS SURFACE TO CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. THIS WORK SHALL BE INCLUDED IN THE COST OF THE BITUMINOUS SURFACE

THE BASE COURSE WIDENING SHALL BE CARRIED THROUGH ALL ENTRANCES, SIDE ROADS, AND MAIL BOX TURNOUTS. EXCEPTIONS WILL BE SHOWN ON THE PLANS.

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

BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.

AGGREGATE (PRIME COAT): FA 20 MAY BE USED IN ADDITION TO THE GRADATIONS LISTED IN THE 3RD PARAGRAPH OF ARTICLE 1003.03(c) OF THE STANDARD SPECIFICATIONS.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS BITUMINOUS LIFTS.

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

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

ONLY THOSE TREES DESIGNATED BY THE ENGINEER OR LISTED IN THE TREE REMOVAL SCHEDULE SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

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

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS INCLUDED IN THESE PLANS.

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

GRANULAR MATERIALS	2.43	M TONS/CU M
BITUMINOUS MATERIAL PRIME COAT	0.35	LITERS/SQ M
AGGREGATE PRIME COAT	0.002	M TONS/SQ M
BITUMINOUS RESURFACING	59.8	Kg/SQ M/25mm
SHORT TERM PAVEMENT MARKING	10	M/100 M OF APPLICATION
NITROGEN FERTILIZER NUTRIENT	100	Kg/ha
PHOSPHORUS FERTILIZER NUTRIENT	100	Kg/ha
POTASSIUM FERTILIZER NUTRIENT	100	Kg/ha
MULCH METHOD 2	45	LITERS/M TON
CALCIUM CHLORIDE	1	Kg/SQ M/APPLICATION
TEMPORARY DITCH CHECKS	7	BALES OR
	5	M TONS AGGREGATE

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE PRESENCE OF DEPARTMENT-OWNED UNDERGROUND ELECTRICAL CABLE WITHIN THE LIMITS OF THE PROPOSED IMPROVEMENT. THE CONTRACTOR SHALL REQUEST THE ILLINOIS DEPARTMENT OF TRANSPORTATION IN OTTAWA (815-434-8417) TO LOCATE THE UNDERGROUND FACILITIES, PROVIDING A MINIMUM OF 72 HOURS NOTICE. THE DEPARTMENT IS NOT A MEMBER OF THE JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS (JULIE) SYSTEM.

ALL DAMAGE TO DEPARTMENT OWNED UNDERGROUND FACILITIES, CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTOR'S EXPENSE. THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS. SPLICING OF ELECTRIC CABLE SHALL NOT BE ALLOWED. ELECTRIC CABLE SHALL BE REPLACED FROM POLE TO POLE OR CONTROLLER.

THE COST OF MAKING ANY SEWER CONNECTIONS TO AN EXISTING DRAINAGE STRUCTURE OR PIPE SHALL BE INCLUDED IN THE COST OF THE NEW SEWER.

MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:
 VERIZON
 MEDIACOM
 CORN BELT
 AMEREN IP

E I

- 000001-04
- 001001-01
- 280001-03
- 482011-02
- 515001-02
- 542301-01
- 542306-01
- 542311
- 542401
- 630001-07
- 630201-04
- 630301-04
- 635006-02
- 635011-01
- 701001-01
- 701006-02
- 701301-02
- 701306-01
- 701321-08
- 701326-02
- 702001-06
- 704001-03
- 720001
- 720006-01
- 729001
- 781001-02

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STATE STANDARDS

- STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- AREAS OF REINFORCEMENT BARS
- TEMPORARY EROSION CONTROL SYSTEM
- BIT.SHLD. STRIPS/SHLDS. WITH RESURFACING AND WIDENING AND RESURFACING PROJECTS
- NAME PLATE FOR BRIDGES
- PRECAST REINFORCED CONCRETE FLARED END SECTION
- PRECAST REINFORCED CONCRETE ELLIPTICAL FLARED END SECTIONS
- GRATING FOR CONCRETE FLARED END SECTION FOR 600 MM (24") THRU 1300 MM (54") PIPE
- METAL END SECTION FOR PIPE CULVERTS
- STEEL PLATE BEAM GUARDRAIL
- PCC/BITUMINOUS STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
- SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- REFLECTOR AND TERMINAL MARKER PLACEMENT
- REFLECTOR MARKER AND MOUNTING DETAILS
- OFF-ROAD OPERATIONS, 2L 2W, 4.5 M (15') MIN AWAY
- OFF-ROAD OPERATIONS, 2L 2W, 4.5 M (15') TO 600 MM (24") AWAY
- LANE CLOSURE, 2L 2W, SHORT TIME OPERATIONS
- LANE CLOSURE, 2L 2W, SLOW MOVING DAY ONLY OPERATIONS
- LANE CLOSURE, 2L 2W, BRIDGE REPAIR WITH BARRIER
- LANE CLOSURE, 2L 2W, PAVEMENT WIDENING
- TRAFFIC CONTROL DEVICES
- TEMPORARY CONCRETE BARRIER
- SIGN PANEL MOUNTING DETAILS
- SIGN PANEL ERECTION DETAILS
- APPLICATIONS OF TYPES A AND B METAL POSTS
- TYPICAL APPLICATIONS OF RAISED REFLECTIVE PAVEMENT MARKERS

COMMITMENTS:

TREES SHALL ONLY BE REMOVED BETWEEN SEPTEMBER 1 AND APRIL 30 OF ANY YEAR TO AVOID IMPACTS TO POTENTIAL INDIANA BAT NURSERY TREES.

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**GENERAL NOTES, STATE STANDARDS,
 INDEX OF SHEETS, AND COMMITMENTS**

ILLINOIS ROUTE 71

SCALE IN METERS
1:500

DATE: 8/31/06
 DRAWN BY: MLB
 CHECKED BY: MJL

RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
619	(120) BR-1	PUTNAM	28	3
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	80% FED. 20% STATE STRUCTURE NO. 078-2008 X028-2A
28000300	TEMPORARY DITCH CHECKS	EACH	4	4
28000500	INLET AND PIPE PROTECTION	EACH	2	2
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1
51500100	NAME PLATES	EACH	1	1
* 63100169	TRAFFIC BARRIER TERMINAL TYPE I, SPECIAL (FLARED)	EACH	4	4
66600105	FURNISHING AND ERECTING RIGHT-OF-WAY MARKERS	EACH	7	7
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	5	5
67100100	MOBILIZATION	L SUM	1	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	4	4
72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	6	6
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	4	4
78200400	GUARDRAIL REFLECTORS	EACH	20	20
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	4	4
M2010110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	96	96
M2020010	EARTH EXCAVATION	CU M	2,801	2,801
M2021200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU M	218	218
M2030100	CHANNEL EXCAVATION	CU M	84	84
M2070220	POROUS GRANULAR EMBANKMENT	CU M	552	552
M2080150	TRENCH BACKFILL	CU M	6	6
M2112500	TOPSOIL EXCAVATION AND PLACEMENT	CU M	459	459
M2510115	MULCH, METHOD 2	HA	0.7	0.7
M2500210	SEEDING, CLASS 2A	HA	0.7	0.7
M2510630	EROSION CONTROL BLANKET	SO M	438	438
M2500400	NITROGEN FERTILIZER NUTRIENT	KG	66	66
M2500500	PHOSPHORUS FERTILIZER NUTRIENT	KG	66	66
M2500600	POTASSIUM FERTILIZER NUTRIENT	KG	66	66
M2800255	TEMPORARY EROSION CONTROL SEEDING	HA	0.3	0.3
M2800400	PERIMETER EROSION BARRIER	METER	56	56
M2810109	STONE RIPRAP, CLASS A5	SO M	100	100
M2820200	FILTER FABRIC	SO M	140	140
M3110300	SUB-BASE GRANULAR MATERIAL, TYPE A 300MM	SO M	270	270
M4021010	AGGREGATE SURFACE COURSE, TYPE B	M TON	25	25
M4060100	BITUMINOUS MATERIALS (PRIME COAT)	LITER	116	116
M4060300	AGGREGATE (PRIME COAT)	M TON	1	1
M4402000	PAVEMENT REMOVAL	SO M	420	420
M5010522	PIPE CULVERT REMOVAL	METER	8	8
M5080105	REINFORCEMENT BARS	KG	14,880	14,880
M5080205	REINFORCEMENT BARS, EPOXY COATED	KG	250	250
M5120900	TEMPORARY SHEET PILING	SO M	247	247

CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	80% FED. 20% STATE STRUCTURE NO. 078-2008 X028-2A
M5403000	CONCRETE BOX CULVERTS	CU M	153	153
M542F028	METAL END SECTIONS 600MM	EACH	2	2
M542H440	PIPE CULVERTS, CLASS D, TYPE I 600MM	METER	13	13
* M6300100	STEEL PLATE BEAM GUARD RAIL, TYPE A	METER	191	191
M6320030	GUARDRAIL REMOVAL	METER	203	203
M6650550	BARBED WIRE FENCE REMOVAL	METER	325	325
M7030220	TEMPORARY PAVEMENT MARKING - LINE 100MM	METER	308	308
M7030520	PAVEMENT MARKING TAPE, TYPE III 100MM	METER	577	577
M7030580	PAVEMENT MARKING TAPE, TYPE III 600MM	METER	36	36
M7031000	WORK ZONE PAVEMENT MARKING REMOVAL	SO M	52	52
M7040100	TEMPORARY CONCRETE BARRIER	METER	138	138
M7040200	RELOCATE TEMPORARY CONCRETE BARRIER	METER	138	138
M7050100	TEMPORARY STEEL PLATE BEAM GUARD RAIL, TYPE A	METER	255	255
* M7200100	SIGN PANEL - TYPE I	SO M	2	2
M7290100	METAL POST - TYPE A	METER	17	17
* M7800105	THERMOPLASTIC PAVEMENT MARKING - LINE 100MM	METER	499	499
* M7800115	THERMOPLASTIC PAVEMENT MARKING - LINE 150MM	METER	37	37
M7830100	PAVEMENT MARKING REMOVAL	SO M	28	28
M3560525	HOT-MIX ASPHALT BASE COURSE WIDENING, 225MM	SO M	398	398
M4063310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	M TON	47	47
M4063080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	M TON	162	162
M4820550	HOT-MIX ASPHALT SHOULDERS 150MM	SO M	280	280
50800515	BAR SPLICERS	EACH	96	96
■ Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2
■ Z0030350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2

■ SFTY-3N
* SPECIALTY ITEM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

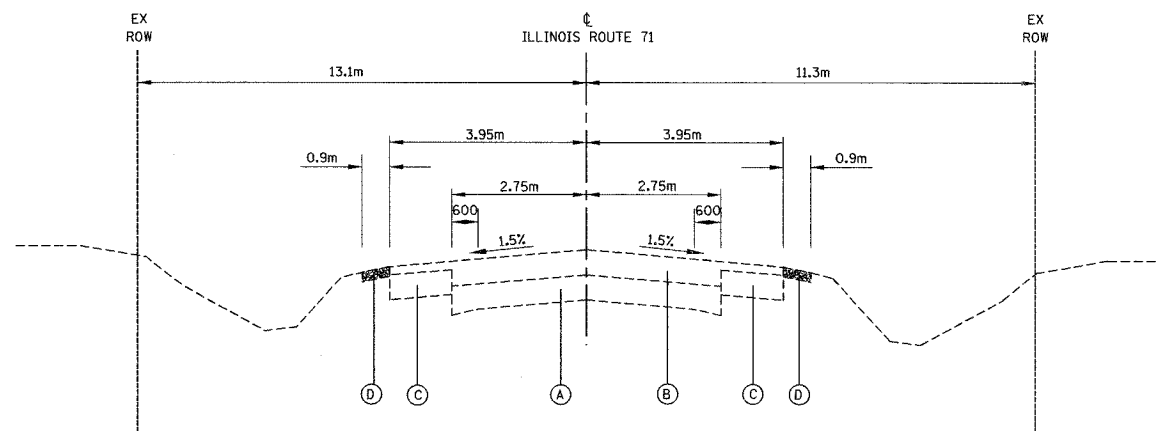
ILLINOIS ROUTE 71

SCALE : NONE

DATE 8/31/06
DRAWN BY KB
CHECKED BY MJL

9/19/2006 11:20:29 AM
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RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	(120) BR-1	PUTNAM	28	4
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

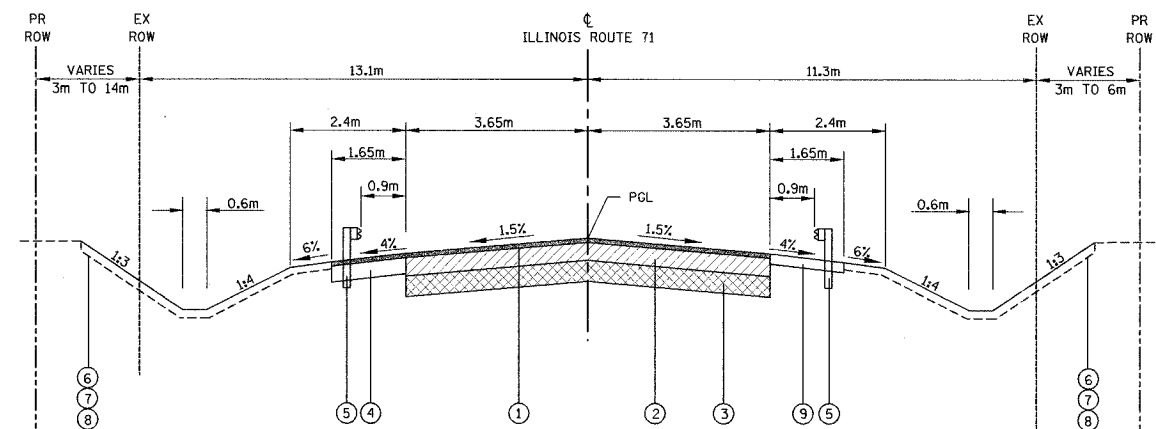


EXISTING LEGEND

- (A) EXISTING PORTLAND CEMENT CONCRETE PAVEMENT, 225mm-150mm-225mm
- (B) EXISTING BITUMINOUS CONCRETE OVERLAY, 205mm AND VARIES
- (C) EXISTING BITUMINOUS CONCRETE WIDENING, 225mm
- (D) EXISTING AGGREGATE SHOULDER

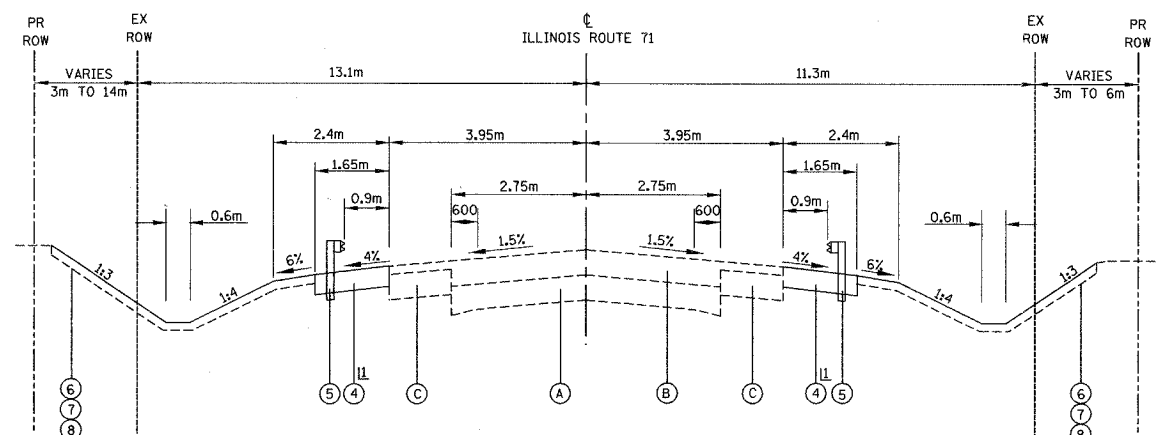
	SUPERPAVE BINDER	SUPERPAVE SURFACE	SUPERPAVE BASE COURSE & SHOULDER
PG GRADE	PG64-22	PG64-22	PG58-22
MAX % RAP ALLOWABLE **	25%	15%	25%
DESIGN AIR VOIDS	4% @ N50	4% @ N50	3% @ N50
MIXTURE COMPOSITION	IL 19.0	IL 12.5 OR IL 9.5	IL 19.0
FRICTION AGGREGATE		MIXTURE C	
PLANT CONTROL LIMITS	CLASS I	CLASS I	NON-CLASS I
DENSITY TEST METHOD	CORES / NUCLEAR	CORES / NUCLEAR	*

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



PROPOSED LEGEND

- (1) BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX D, N70, 58mm
- (2) BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19.0, N50, 250mm
- (3) SUBBASE GRANULAR MATERIAL, TYPE A 300mm
- (4) BITUMINOUS BASE COURSE WIDENING, SUPERPAVE 225mm (TEMPORARY WIDENING LEFT IN PLACE - SEE SHEET 8)
- (5) STEEL PLATE BEAM GUARD RAIL, TYPE A
- (6) TOPSOIL PLACEMENT, 100mm (REUSE STOCKPILED TOPSOIL)
- (7) SEEDING (TYPE AS DETAILED ON LANDSCAPING PLANS)
- (8) EXCELSIOR BLANKET (TYPE AND LOCATIONS AS NOTED ON LANDSCAPING PLANS)
- (9) BITUMINOUS SHOULDERS, SUPERPAVE (BAM) 150mm
- (10) AGGREGATE SHOULDERS, TYPE B, 100mm



11 (10) FROM STA. 9+169.8 TO STA. 9+208 AND STA. 9+328 TO STA. 9+366.6

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
REGION TWO
DISTRICT THREE

REVIEWED BY: _____
DISTRICT STUDIES & PLANS ENGINEER

DATE: _____

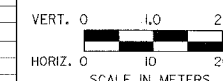
EXAMINED BY: _____
DISTRICT CONSTRUCTIONS ENGINEER

DISTRICT OPERATIONS ENGINEER

DISTRICT MATERIALS ENGINEER

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TYPICAL SECTIONS
ILLINOIS ROUTE 71



DATE: 8/31/06
DRAWN BY: MLB
CHECKED BY: MJL

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	(120) BR-1	PUTNAM	28	5
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

EARTHWORK SCHEDULES

CONSTRUCTION STAGE	EARTH EXCAVATION (SIDE SLOPE GRADING) (CU M)	EARTH EXCAVATION (CULVERT REPLACEMENT) (CU M)	TOTAL EARTH EXCAVATION (CU M)	EXCAVATION TO BE USED IN EMBANKMENT (ADJ FOR 25% SHRINKAGE) (CU M)	EMBANKMENT (CU M)	WASTE EARTHWORK (CU M)
STAGE I (LEFT SIDE)	1343	243	1586	1189	212	977
STAGE II (RIGHT SIDE)	972	243	1215	911	166	745
TOTAL	2315	486	2801	2100	378	1722

CONSTRUCTION STAGE	TOPSOIL EXCAVATION (EST AS 150MM) (CU M)	TOPSOIL TO BE USED (ADJ FOR 25% SHRINKAGE) (CU M)	TOPSOIL TO BE PLACED 100MM (CU M)	WASTE TOPSOIL (CU M)	CHANNEL EXCAVATION (CU M)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (CU M)
STAGE I (LEFT SIDE)	402	302	268	34	84	177
STAGE II (RIGHT SIDE)	231	173	154	19	0	41
TOTAL	633	475	422	53	184	218

GUARDRAIL SCHEDULES

LOCATION	STEEL PLATE BEAM GUARDRAIL, TY A (M)	TRAFFIC BARRIER TERM TY 1 (SPL) FLARED (EACH)	TERMINAL MARKER, DIRECT APPLIED (EACH)
RIGHT SIDE	95.3	2	2
LEFT SIDE	95.3	2	2
TOTAL	191	4	4

PAVING SCHEDULES

LOCATION	BIT CONC SURF CSE, SUPER, MIX C, N50 (M TON)	BIT CONC BIND CSE, SUPER, IL-19.0, N50 (M TON)	BIT SHLD, SUPER 150mm (SQ M)	BIT BASE CSE WIDENING, 225mm (TEMPORARY PAVEMENT) (SQ M)	SUBBASE GRAN MATL, TY B 300mm (SQ M)	AGG SURF CSE, TY B (M TON)	PAVEMENT REMOVAL (SQ M)
LEFT SIDE	28	81	109	200	135	25	180
RIGHT SIDE	19	81	171	198	135	0	240
TOTAL	47	162	280	398	270	25	420

LANDSCAPING SCHEDULES

LOCATION	SEEDING, CLASS 2A (HA)	MULCH, METHOD 2 (HA)	EROSION CONTROL BLANKET (SQ M)	PHOSPHORUS FERTILIZER NUTRIENT (KG)	POTASSIUM FERTILIZER NUTRIENT (KG)	NITROGEN FERTILIZER NUTRIENT (KG)
LEFT SIDE	0.4	0.4	230	40	40	40
RIGHT SIDE	0.3	0.3	208	26	26	26
TOTAL	0.7	0.7	438	66	66	66

PAVEMENT MARKING SCHEDULES

LOCATION	THERMOPLASTIC PM LINE 100mm WHITE (M)	THERMOPLASTIC PM LINE 100mm YELLOW (M)	THERMOPLASTIC PM LINE 150mm YELLOW (M)
LEFT SIDE	97	0	0
RIGHT SIDE	96	0	0
CENTER	0	296	37
TOTAL	203	296	37

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

ILLINOIS ROUTE 71

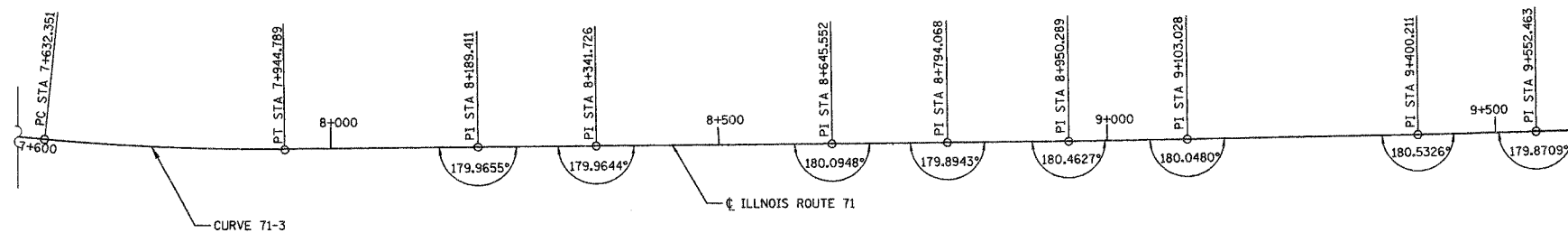
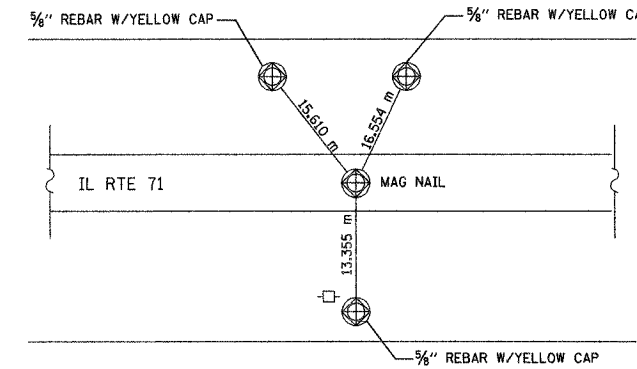
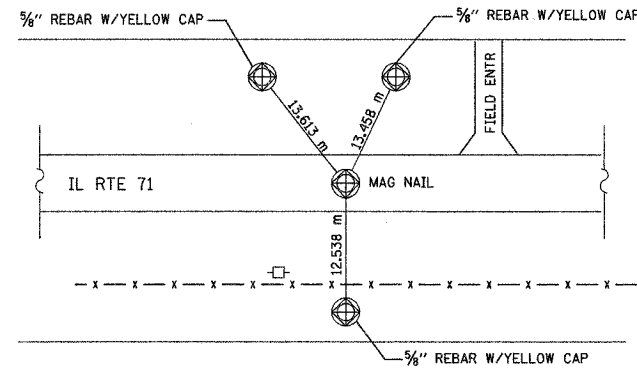
SCALE IN METERS 1:500

DATE: 8/31/06
DRAWN BY: MLB
CHECKED BY: MJL

FAP	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	(120) BR-1 I	PUTNAM	28	6
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	

CONTROL POINT	STATION	Q/Z	NORTHING	EASTING	ELEVATION
13076	9+103.028	0.000	509983.0420	775572.6100	213.006

CONTROL POINT	STATION	Q/Z	NORTHING	EASTING	ELEVATION
13005	9+400.211	0.000	509989.5480	775869.7230	212.057



PROPOSED CONSTRUCTION
ILLINOIS ROUTE 71
CURVE 71-3

P.I. = STA. 7+788.711
Δ = 5° 59' 02" (LT)
R = 3,0000.000m
L = 312.438m
T = 156.360m
E = 4.0272m
P.C. = STA. 7+632.351
P.T. = STA. 7+944.789

BENCHMARK SUMMARY

- TBM-1 "□" CUT IN NORTHEAST WINGWALL OF SN 078-0031
STA. 9+268 +/-
ELEV. 210.238
- TBM-2 R.R. SPIKE IN POWER POLE SOUTH OF IL ROUTE 71
STA. 9+397 OFF. 12.2m RT
ELEV. 211.969
- TBM-18 R.R. SPIKE IN POWER POLE SOUTH OF IL ROUTE 71
STA. 9+098 OFF. 12.3m RT
ELEV. 213.514

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
ALIGNMENT, TIES, AND BENCHMARKS
ILLINOIS ROUTE 71

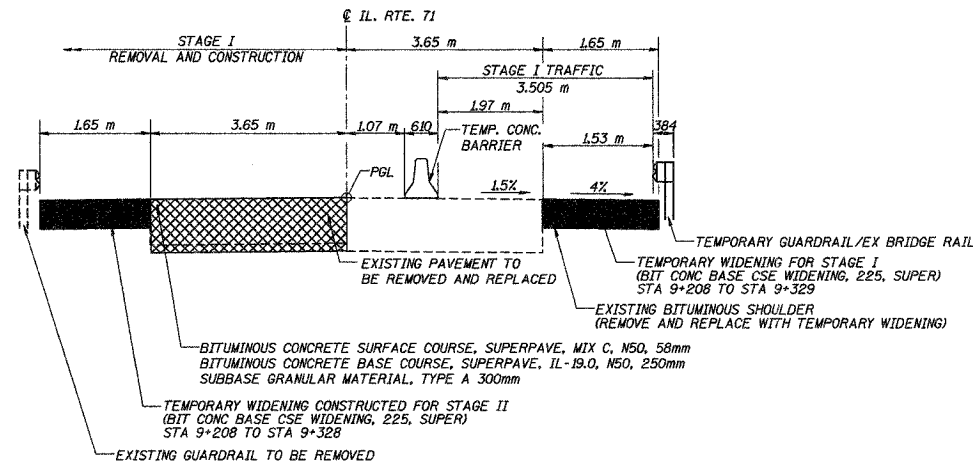
DATE: 8/31/06
DRAWN BY: MLB
CHECKED BY: MJL

SCALE: 200

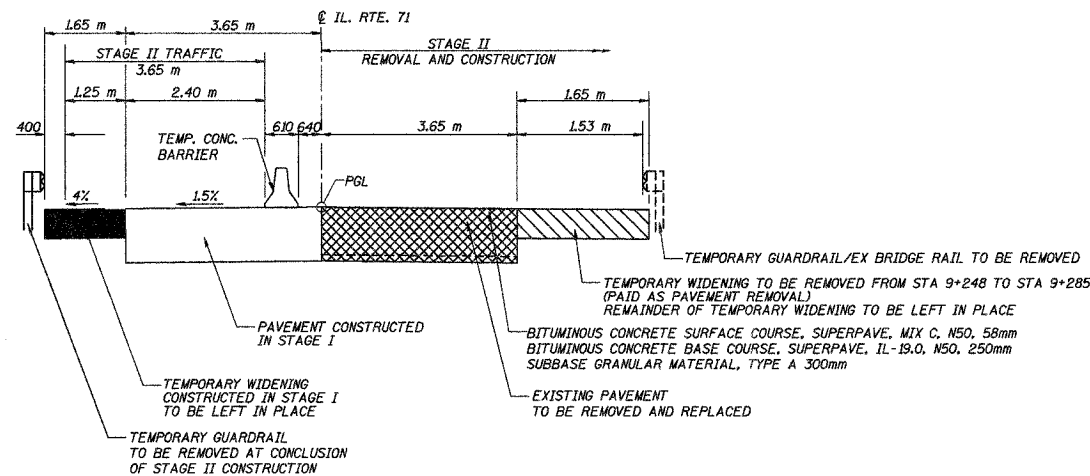
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	(120) BR-1	PUTNAM	28	8
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

NOTES:

1. TRAFFIC CONTROL SHALL BE INSTALLED ACCORDING TO STANDARD 701321.
2. TEMPORARY WIDENING IS DESIGNED TO BE LEFT IN PLACE AT THE CONCLUSION OF THE PROJECT, AS INDICATED, AND USED AS BITUMINOUS SHOULDER AND GUARDRAIL STABILIZATION.



STAGE I TRAFFIC
(LOOKING EAST)



STAGE II TRAFFIC
(LOOKING EAST)

STAGE I SEQUENCE OF OPERATIONS

1. REMOVE EXISTING SIGNS AND ANY OTHER OBSTRUCTIONS NECESSARY TO CONSTRUCT PROPOSED BIT CONCRETE BASE COURSE WIDENING AND EARTHWORK THAT IS REQUIRED FOR STAGE I TRAFFIC. RELOCATE FIELD ENTRANCE.
2. INSTALL BIT CONCRETE BASE COURSE WIDENING FOR STAGE I TRAFFIC.
3. INSTALL TEMPORARY TRAFFIC SIGNALS, SIGNS, IMPACT ATTENUATORS, TEMPORARY CONCRETE BARRIERS, VERTICAL PANELS, DRUMS, AND ALL ITEMS AS PER THESE DETAILS AND TRAFFIC CONTROL & PROTECTION STANDARD 701321 TO ACCOMMODATE STAGE I TRAFFIC.
4. BEGIN STAGE I CONSTRUCTION BY REMOVING EXISTING GUARDRAIL AND TRAFFIC BARRIER ENDS. DRIVE TEMPORARY SHEET PILING. REMOVE PORTIONS OF EXISTING BRIDGE ITEMS AS PER CULVERT PLANS AND ANY OTHER OBSTRUCTIONS NECESSARY TO CONSTRUCT ALL ITEMS IN STAGE I.
5. CONSTRUCT STAGE I ROADWAY AND BRIDGE ITEMS AS WELL AS BIT BASE COURSE WIDENING AND TEMP GUARDRAIL FOR STAGE II TRAFFIC EXCEPT BIT SURFACE COURSE PER CONTRACT PLANS. (SHEET PILING MAY NEED TO BE ADJUSTED PRIOR TO BACKFILLING.)

STAGE II SEQUENCE OF OPERATIONS

1. INSTALL TEMPORARY TRAFFIC SIGNALS, SIGNS, IMPACT ATTENUATORS, TEMPORARY CONCRETE BARRIERS, VERTICAL PANELS, DRUMS, AND ALL ITEMS AS PER THESE DETAILS AND AS PER TRAFFIC CONTROL & PROTECTION STANDARD 701321 TO ACCOMMODATE STAGE II TRAFFIC.
2. BEGIN STAGE II CONSTRUCTION BY REMOVING EXISTING GUARDRAIL AND TRAFFIC BARRIER ENDS. DRIVE TEMPORARY SHEET PILING. REMOVE PORTIONS OF EXISTING BRIDGE ITEMS AS PER CULVERT PLANS, ROADWAY, BIT BASE COURSE WIDENING FROM STAGE I, AND ANY OTHER OBSTRUCTIONS NECESSARY TO CONSTRUCT ALL ITEMS IN STAGE II.
3. CONSTRUCT STAGE II ROADWAY AND BRIDGE ITEMS EXCEPT BIT SURFACE COURSE AS PER PLANS. INSTALL GUARDRAIL AND BIT SHOULDER FOR GUARDRAIL STABILIZATION.
4. GRADE SIDE SLOPES ON THE SOUTH SIDE OF THE ROADWAY AS SHOWN IN THE CROSS SECTIONS. PLACE TOPSOIL AND SEEDING.

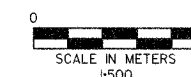
STAGE III SEQUENCE OF OPERATIONS

1. CONSTRUCT REMAINING BIT SHOULDER FOR GUARDRAIL STABILIZATION.
2. GRADE REMAINING SIDE SLOPES AS SHOWN IN THE CROSS SECTIONS. PLACE TOPSOIL AND SEEDING.
3. CONSTRUCT GUARDRAIL.
4. CONSTRUCT BIT SURFACE COURSE
5. PLACE PERMANENT PAVEMENT MARKINGS.

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC
TYPICAL SECTIONS

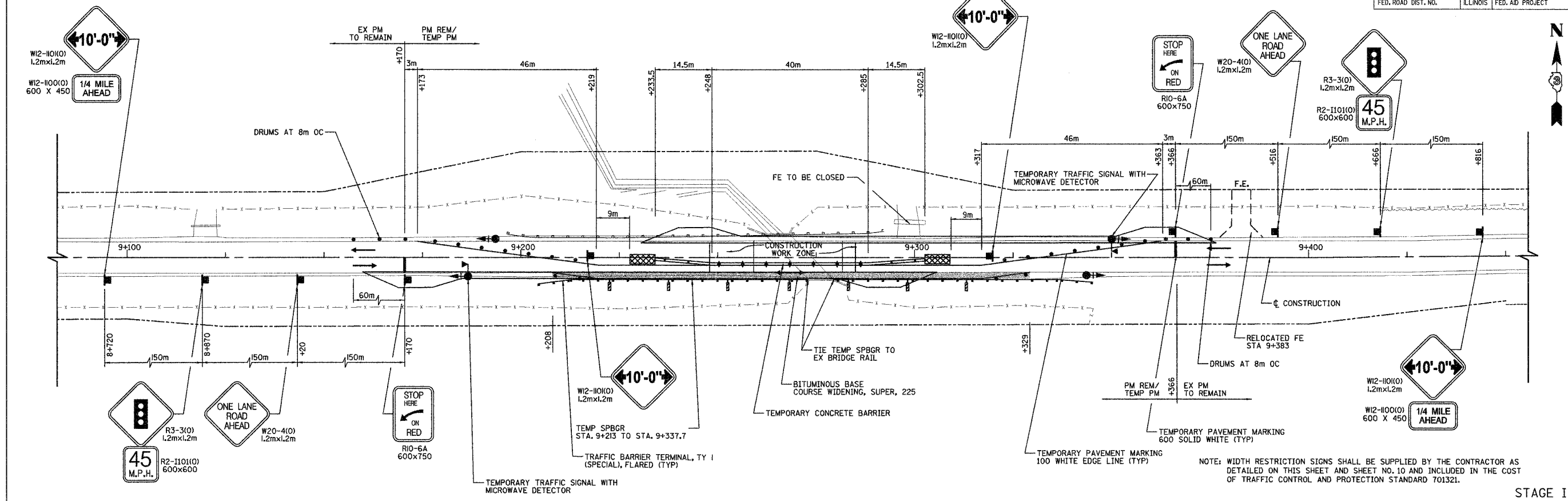
ILLINOIS ROUTE 71
STATION 9+268.50 (STRUCTURE NO 078-2008)



DATE: 8/31/06
DRAWN BY: ESN
CHECKED BY: MJL

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	(120) BR-1	PUTNAM	28	9
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AD. PROJECT		

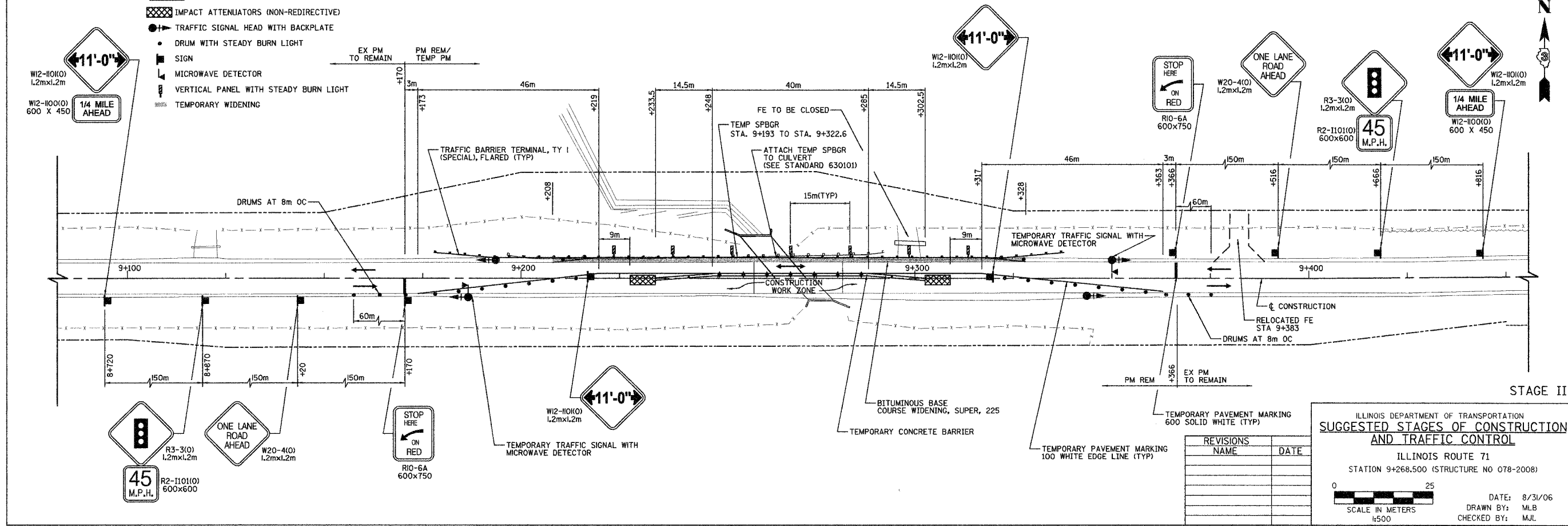
NOTE: TRAFFIC CONTROL SHALL BE INSTALLED ACCORDING TO STANDARD 701321.



NOTE: WIDTH RESTRICTION SIGNS SHALL BE SUPPLIED BY THE CONTRACTOR AS DETAILED ON THIS SHEET AND SHEET NO. 10 AND INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

STAGE I

- LEGEND**
- IMPACT ATTENUATORS (NON-REDIRECTIVE)
 - TRAFFIC SIGNAL HEAD WITH BACKPLATE
 - DRUM WITH STEADY BURN LIGHT
 - SIGN
 - MICROWAVE DETECTOR
 - VERTICAL PANEL WITH STEADY BURN LIGHT
 - TEMPORARY WIDENING



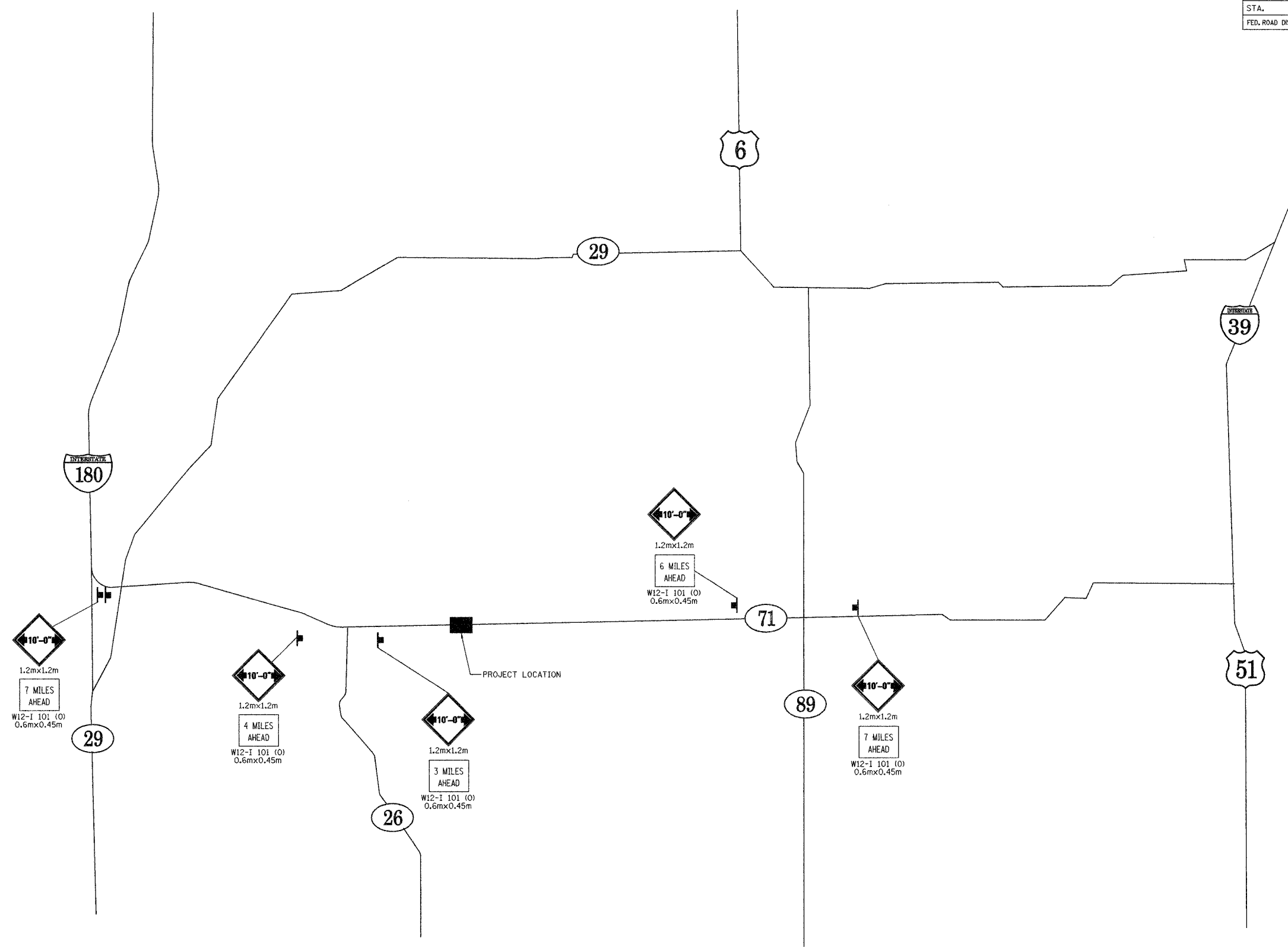
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL
 ILLINOIS ROUTE 71
 STATION 9+268.500 (STRUCTURE NO 078-2008)

DATE: 8/31/06
 DRAWN BY: MLB
 CHECKED BY: MJL

SCALE IN METERS
 1:500

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	(120) BR-1	PUTNAM	28	10
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



NOTE:
WIDTH INDICATOR SIGN SHALL BE CHANGED TO 11'-0"
FOR STAGE II.




REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
WIDE LOAD SIGNING PLAN
 ILLINOIS ROUTE 71
 STATION 9+268.50 (STRUCTURE NO 078-2008)

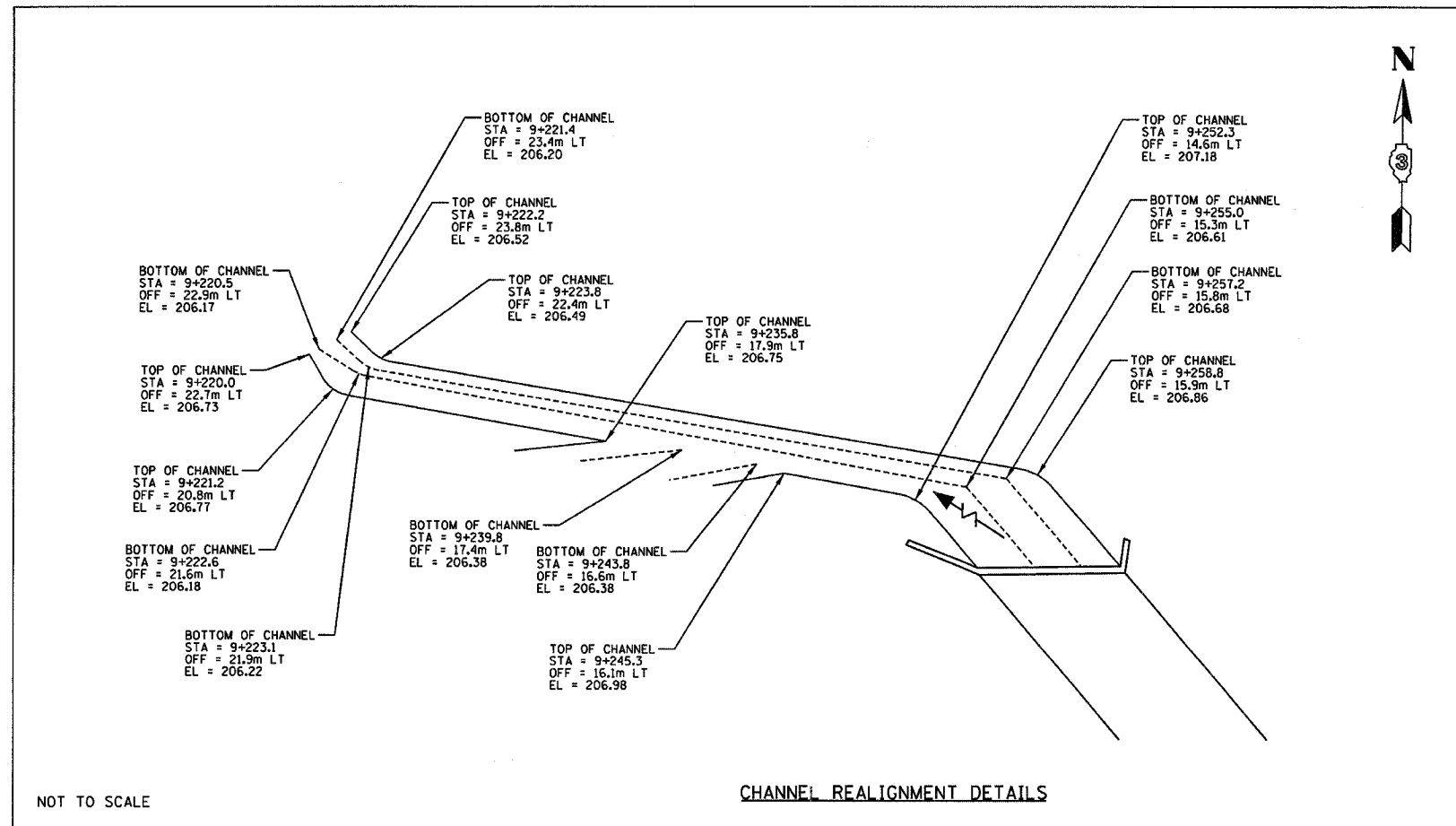
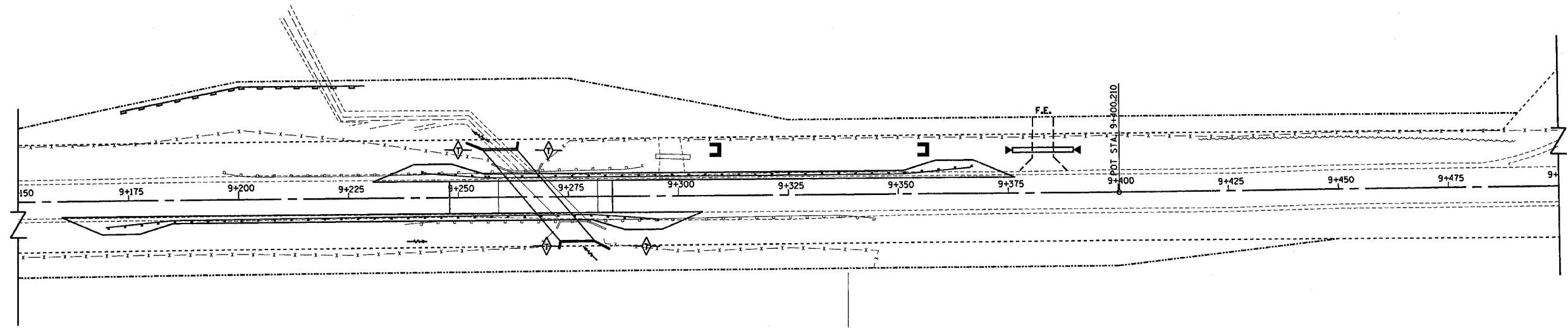
DATE: 8/31/06
 DRAWN BY: ESN
 CHECKED BY: MJL

SCALE IN METERS
 1:500

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	(20) BR-1	PUTNAM	28	11
STA. 9+175		TO STA. 9+375		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

- LEGEND**
-  TEMPORARY DITCH CHECK
 -  PIPE PROTECTION
 -  PERIMETER EROSION BARRIER

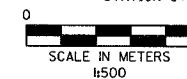
- NOTE:**
1. PIPE PROTECTION WILL BE PROVIDED AT ALL UP-STREAM CULVERTS FOR DRIVEWAYS AND CROSS STREETS.
 2. TEMPORARY EROSION CONTROL SEEDING SHALL BE PLACED AT A RATE OF 110kg/HA (100lbs/ac).



NOT TO SCALE

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
**EROSION CONTROL PLAN
 AND CHANNEL DETAILS**
 ILLINOIS ROUTE 71
 STATION 9+150 TO STATION 9+500



DATE: 8/31/06
 DRAWN BY: MLB
 CHECKED BY: MJL

SEC. 7 & SEC. 8 T. 32 N., R 1 W., 3RD. P.M.

E. LINE OF THE W. 1/2 OF THE E. 1/2 OF THE W. 50 AC. OF THE S. 1/2 OF THE NE. 1/4 OF SEC. 7

PARCEL NO. 3KM0013

TRUSTEE'S DEED
DOC. NO. 06-408

CHERYL MENNIE, ETAL, TRUSTEES

TOTAL HOLDING	= 17.0104 ha ±	[42.033 ac ±]
TOTAL R.O.W. REQUIRED	= 0.8894 ha ±	[2.198 ac ±]
AREA IN EXISTING ROADWAY	= 0.6204 ha ±	[1.533 ac ±]
NET R.O.W. REQUIRED	= 0.2690 ha ±	[0.665 ac ±]
REMAINDER	= 16.1210 ha ±	[39.835 ac ±]

NE. CORNER SEC. 7
FND. 1/2 PIPE
MON. REC. DOC. 2000-1213

PARCEL NO. 3KM0014

HOWARD MEKLEY, et ux.

TOTAL HOLDING	= 10.9670 ha ±	[27.100 ac ±]
TOTAL R.O.W. REQUIRED	= 0.0652 ha ±	[0.211 ac ±]
REMAINDER	= 10.8818 ha ±	[26.889 ac ±]

PARCEL NO. 3KM0010

SEE SHEET 6 FOR AREAS

PARCEL NO. 3KM0011

SEE SHEET 6 FOR AREAS

PARCEL NO. 3KM0012

**LIFE ESTATE
VELMA MEKLEY, et al.**

TOTAL HOLDING	= 32.3750 ha ±	[80.000 ac ±]
TOTAL R.O.W. REQUIRED	= 0.1296 ha ±	[0.320 ac ±]
AREA IN EXISTING ROADWAY	= 0.0793 ha ±	[0.196 ac ±]
NET R.O.W. REQUIRED	= 0.0503 ha ±	[0.124 ac ±]
REMAINDER	= 32.2454 ha ±	[79.680 ac ±]

PARCEL 3KM0012: NO RIGHT OF WAY PURCHASED EAST OF STATION 9+450.000 IN THIS ACQUISITION.

CERTIFICATE OF SURVEY

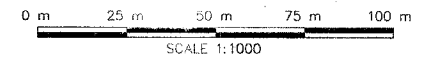
I, COVENTINE FIDIS, HEREBY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS, THAT THE SURVEY OF PROPOSED F.A.P. 619 WAS MADE BY ME OR UNDER MY DIRECTION AND THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT ALL MONUMENTS AND MARKS ARE OF THE CHARACTER AND OCCUPY THE POSITION SHOWN THEREON, AND ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED.

DATE: MAY 12, 2004



[Signature]
COVENTINE FIDIS - ILLINOIS PROFESSIONAL
LAND SURVEYOR NUMBER 35-2159
My License Expires 11/30/2004
Professional Design Firm No. 184-003192

NOTE: ALL BEARINGS ARE ON AN ASSUMED BASIS



RIGHT OF WAY PLANS

ROUTE	FAP 619 (ILLINOIS 71)
SECTION	(120) RS-2, BR, BR-1 & (121) RS-2
PROJECT	-
COUNTY	PUTNAM
JOB NUMBER	R-93-023-94
STATION	9+000 TO 9+700
SCALE	1 : 1000 SHEET 7 OF 15



I, GERRY L. WOLTERING, CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR OF THE STATE OF ILLINOIS, AND THAT THE FOLLOWING PARCELS WERE MODIFIED BY ME BASED UPON THE SURVEY OF F.A.P. 619 (ILLINOIS ROUTE 71) MADE BY COVENTINE FIDIS: PARCEL 3KM0011, ADDED AREA TO BE PURCHASED IN EXISTING R.O.W.; PARCEL 3KM0012, REVISED AREA TO BE PURCHASED; PARCEL 13 REMOVED AREA FROM TAKE OF C.R. 1100 R.O.W. PREVIOUSLY PURCHASED; PARCEL 14 REVISED CORNER CUT BASED ON C.R. 1100 R.O.W. PREVIOUSLY PURCHASED. ADDITIONAL R.O.W. TO BE ACQUIRED AT A LATER DATE.


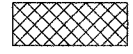


DATED: 2-28-06
[Signature]
GERRY L. WOLTERING
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-3491

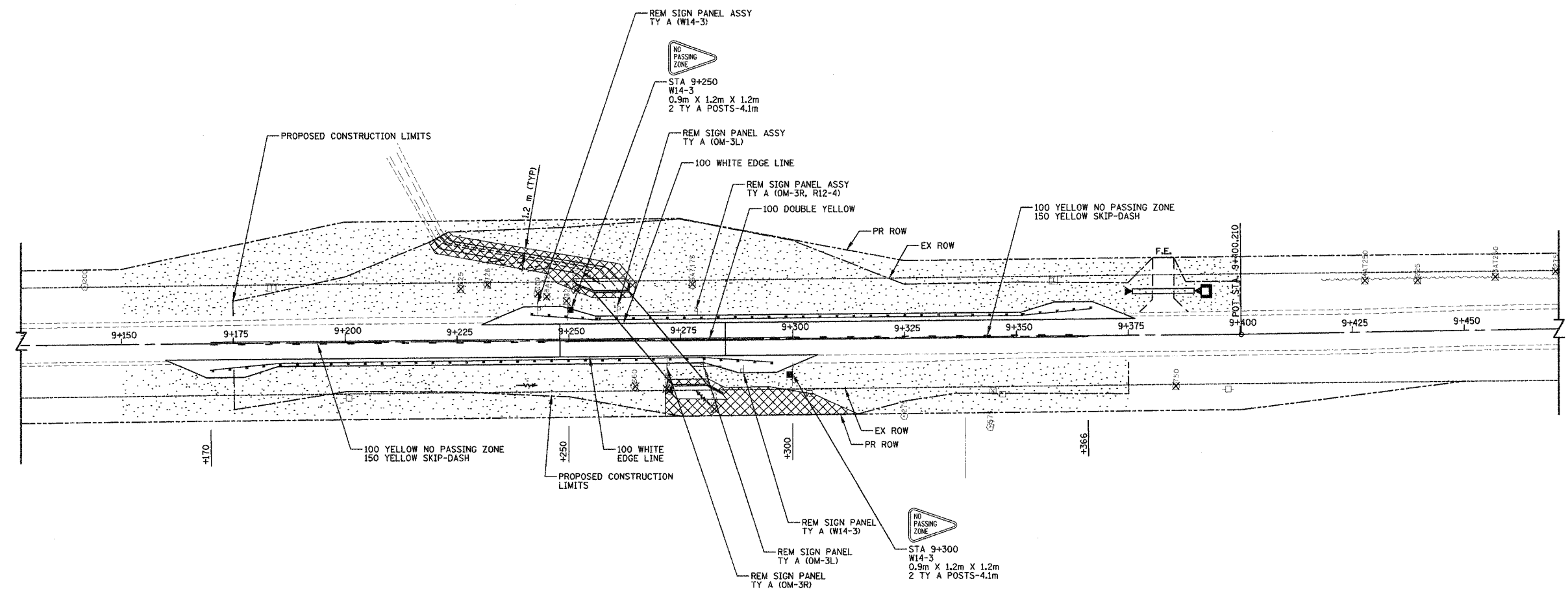
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
6/9	(20) BR-1	PUTNAM	28	13
STA. 9+175		TO STA. 9+375		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

NOTES:

- SEE SHEET NO. 24 FOR TYPICAL PAVEMENT MARKINGS
- ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC

LEGEND

-  SEEDING CLASS 2A
-  EXCELSIOR BLANKET WITH SEEDING, CLASS 2A
-  EX SIGN PANEL ASSEMBLY
-  PR SIGN PANEL ASSEMBLY



REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
LANDSCAPING PAVEMENT MARKING AND SIGNING PLAN
 ILLINOIS ROUTE 71
 STATION 9+150 TO STATION 9+500

DATE: 8/31/06
 DRAWN BY: MLB
 CHECKED BY: MJL

SCALE IN METERS
 1:500

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	120 BR-1	PUTNAM	28	14

FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT-

BENCHMARK:
CHISELED "□" ON N.E. WING WALL ELEV. 210.238

EXISTING STRUCTURE; S.N. 078-0031 BUILT IN 1928 UNDER SECTION 120-B OF SBI RTE. 89. THE STRUCTURE IS A SINGLE SPAN 381 mm REINFORCED CONCRETE SLAB STRUCTURE WITH CLOSED ABUTMENTS SUPPORTED ON TIMBER PILES. 10.4 m FACE TO FACE OF CURB (11.0 m OUT TO OUT) WITH BACK TO BACK LENGTH OF 6.9 m. ONE WAY TRAFFIC TO BE MAINTAINED UTILIZING STAGE CONSTRUCTION.

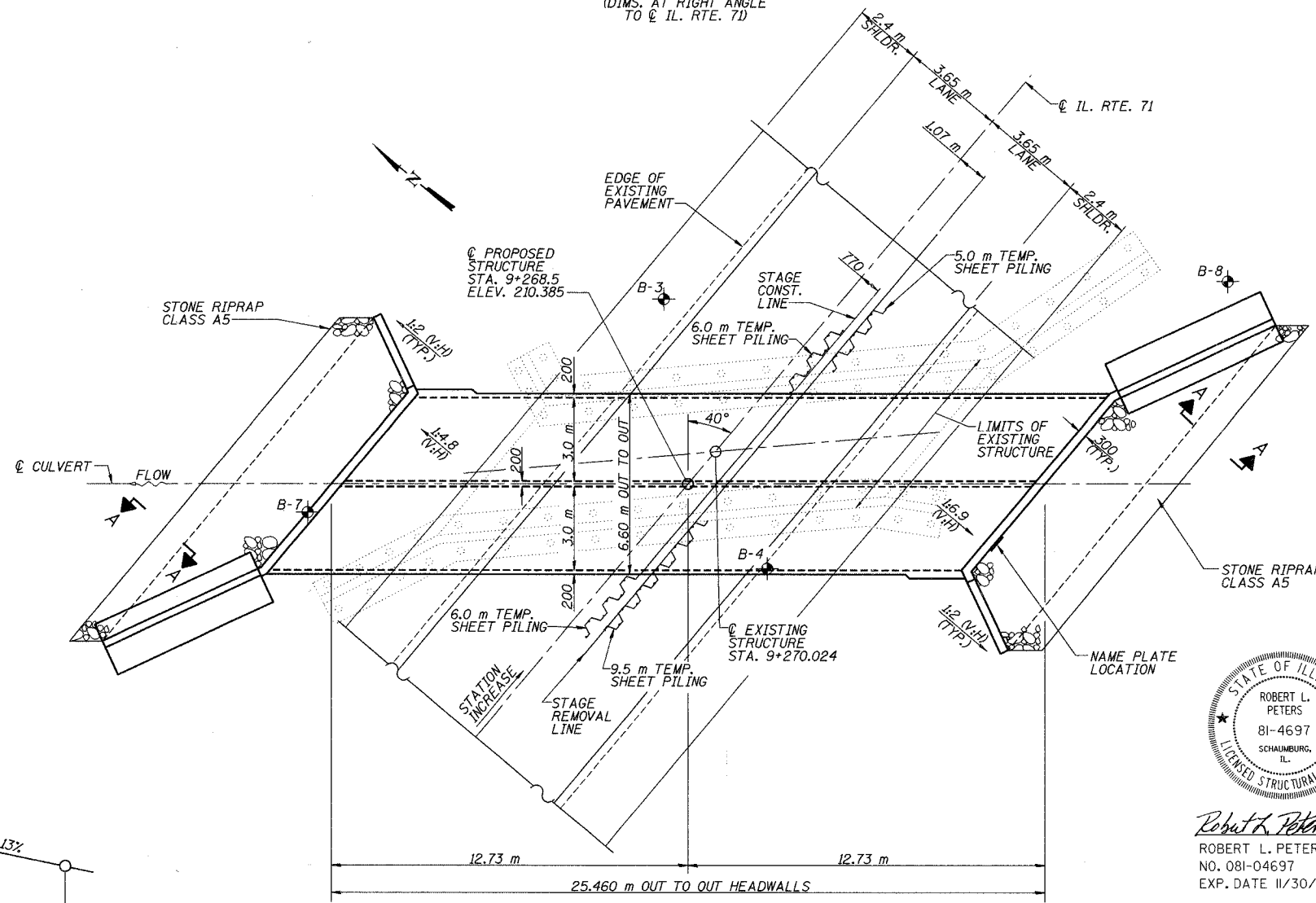
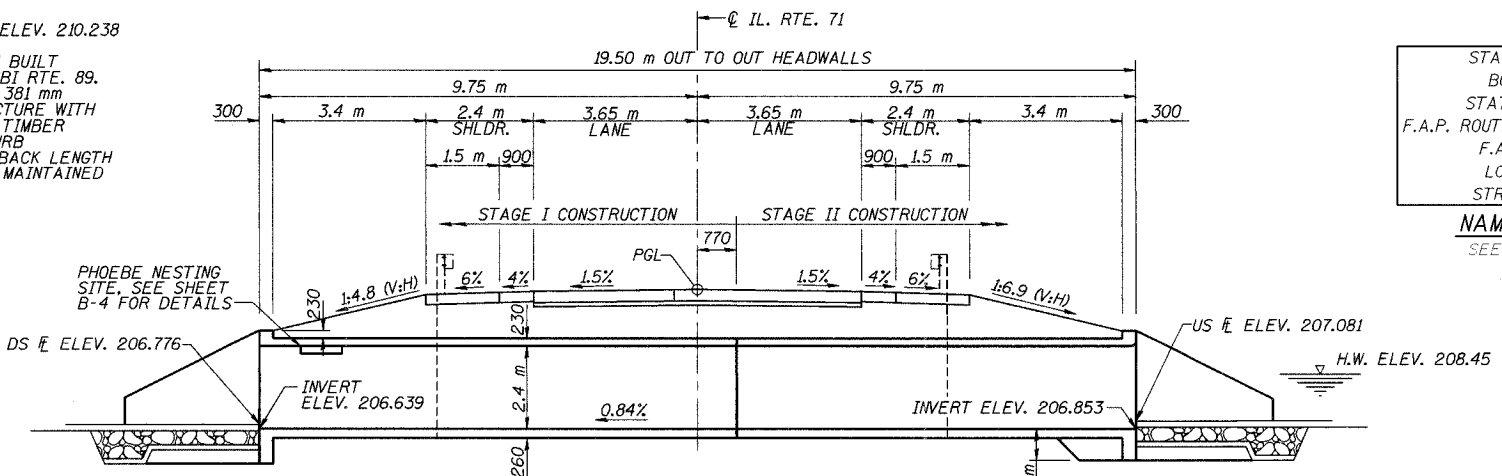
NO SALVAGE.

STATION 9+268.5
BUILT BY
STATE OF ILLINOIS
F.A.P. ROUTE 619 - SEC. 120 BR-1
F.A. PROJ.
LOADING MS18
STR. NO. 078-2008

NAME PLATE
SEE STD. 515001

GENERAL NOTES

1. REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 GR 60 (IL MODIFIED). SEE SPECIAL PROVISIONS.
2. LAYOUT OF SLOPE PROTECTION SYSTEM MAY BE VARIED IN THE FIELD TO SUIT GROUND CONDITIONS AS DIRECTED BY THE ENGINEER.
3. ALL DIMENSIONS ARE IN MILLIMETERS (mm) EXCEPT AS NOTED.
4. A PRECAST BOX CULVERT ALTERNATE WILL NOT BE ALLOWED AT THIS SITE.
5. FOR BACKFILLING AND EMBANKMENT, SEE STANDARD SPECIFICATIONS.
6. EXPOSED EDGES SHALL HAVE STANDARD 20 mm CHAMFER, UNLESS OTHERWISE NOTED.
7. EXCAVATE BEHIND EXISTING ABUTMENTS PRIOR TO COMMENCING REMOVAL OF SUPERSTRUCTURE.

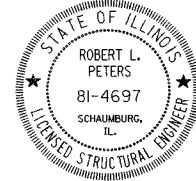


TOTAL BILL OF MATERIAL

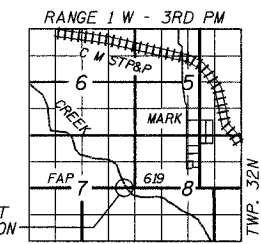
ITEM	UNIT	TOTAL
REMOVAL OF EXISTING STRUCTURES	EACH	1
NAME PLATES	EACH	1
STONE RIPRAP, CLASS A5	m ²	100
FILTER FABRIC	m ²	140
REINFORCEMENT BARS	kg	14,880
REINFORCEMENT BARS, EPOXY COATED	kg	250
TEMPORARY SHEET PILING	m ²	246.5
CONCRETE BOX CULVERTS	m ³	152.6
BAR SPLICERS	EACH	96

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

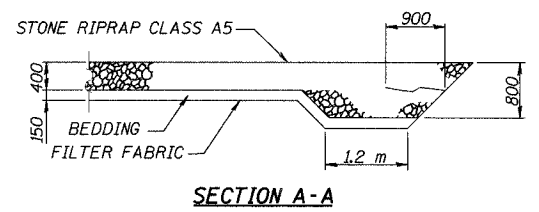
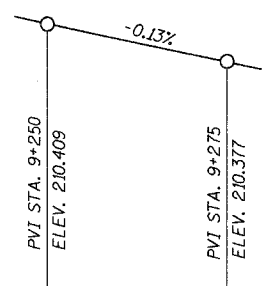


Robert L. Peters
ROBERT L. PETERS, P.E., S.E.
NO. 081-04697
EXP. DATE 11/30/08



LOADING MS18
Allow 2.4 kN/m² for future wearing surface.
DESIGN SPECIFICATIONS
1996 AASHTO with 1997, 1998 & 1999 Interims

DESIGN STRESSES
FIELD UNITS
f'_c = 24 MPa
f_y = 420 MPa (Reinforcement)



WATERWAY INFORMATION

Drainage Area = 1.14 km² Low Grade Elev. 210.305 Sta. 9+268.5

Flood	Freq. Yr.	Q m ³ /s	Opening m ²		Nat. H.W.E.		Head - m		Headwater Elev.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	50	11.4	4.1	9.8	208.45	0.838	0.0	209.28	208.45	
Base	100	13.5	4.6	10.4	208.56	0.887	0.0	209.44	208.56	
Overtopping										
Max. Calc.	500	17.8	5.4	11.6	208.75	0.975	0.0	209.73	208.75	

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
GENERAL PLAN AND ELEVATION
ILLINOIS ROUTE 71 OVER AN INTERMITTENT STREAM
F.A.P. RT. 619 - SECTION 120 BR-1
PUTNAM COUNTY
STATION 9+268.500
STRUCTURE No. 078-2008

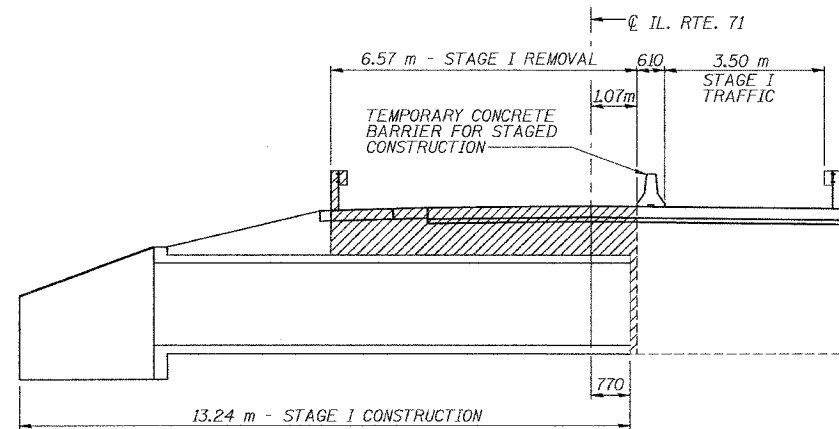
DESIGNED BY: MV DRAWN BY: KDS
DATE: 11/21/06 CHECKED BY: SG CHECKED BY: MV

TRANS SYSTEMS CORPORATION

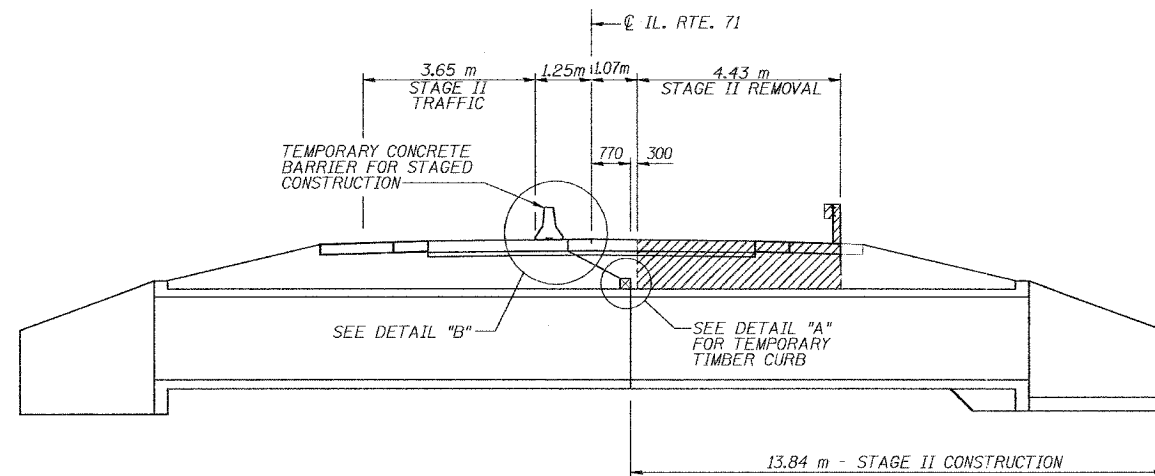
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
619	120 BR-1	PUTNAM	28	15

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT- SHEET B-2 OF B-8

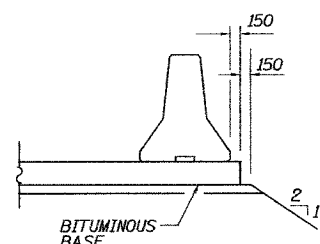
NOTE:
SINCE THE EXISTING ABUTMENTS ARE RESTRAINED TOP AND BOTTOM THE EXISTING ABUTMENTS MUST BE BRACED OR THE SOIL EXCAVATED BEHIND THEM PRIOR TO REMOVAL OF THE EXISTING SUPERSTRUCTURE.



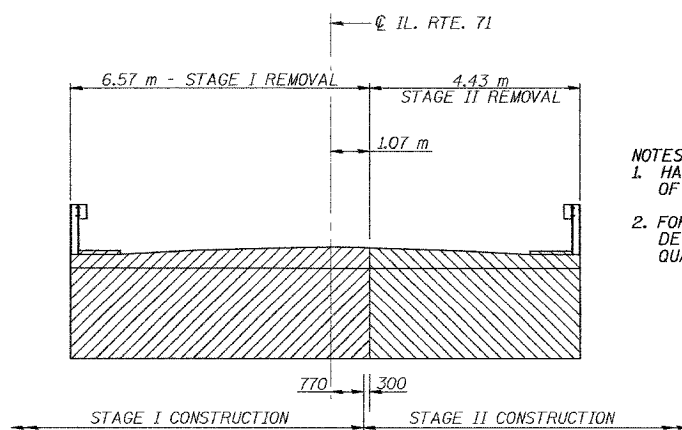
STAGE I
LOOKING EAST
DIMENSIONS ARE AT RIGHT ANGLE TO CL. ROUTE 71



STAGE II
LOOKING EAST
DIMENSIONS ARE AT RIGHT ANGLE TO CL. ROUTE 71



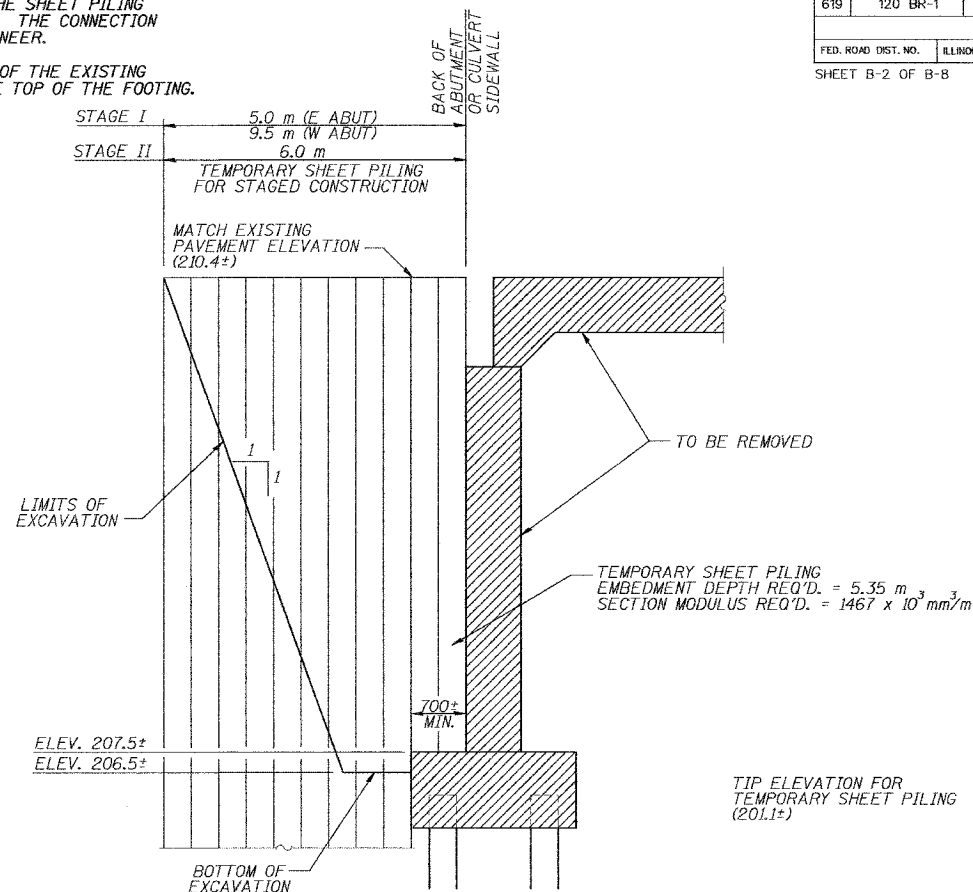
DETAIL "B"



REMOVAL DETAIL
LOOKING EAST

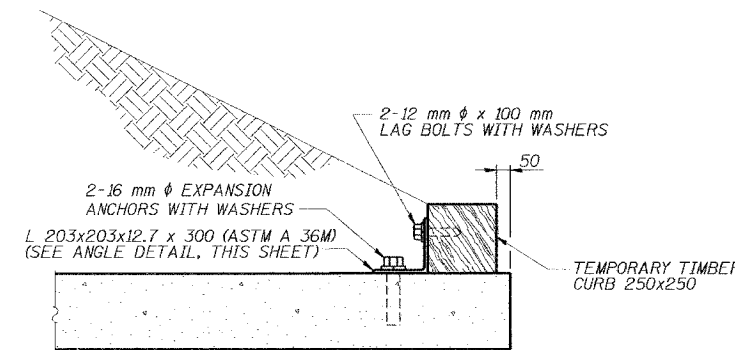
NOTES:
1. HATCHED AREAS INDICATE REMOVAL OF EXISTING STRUCTURES.
2. FOR TEMPORARY CONCRETE BARRIER DETAILS SEE SHEET B-6 OF B-8. FOR QUANTITY SEE ROADWAY PLANS.

NOTES:
1. THE CONTRACTOR SHALL ANCHOR THE SHEET PILING TO THE EXISTING ABUTMENT WALL. THE CONNECTION SHALL BE APPROVED BY THE ENGINEER.
2. SHEET PILING WITHIN THE LIMITS OF THE EXISTING FOOTING SHALL BE DRIVEN TO THE TOP OF THE FOOTING.



TEMPORARY SHEET PILING DETAIL

IF THE CONTRACTOR CHOOSES TO ALTER THE TEMPORARY CANTILEVERED SHEET PILING DESIGN REQUIREMENTS SHOWN ON THE PLANS FOR LESSER DESIGN REQUIREMENTS, THEN FULL DESIGN SUBMITTALS WITH THE REQUIRED SEALS WILL BE EXPECTED BY THE DEPARTMENT, FOR REVIEW AND APPROVAL.

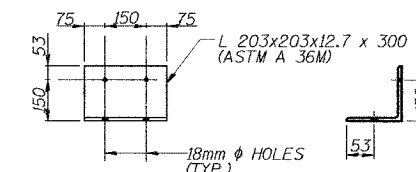


DETAIL "A"

THE L 203x203x12.7 x 300 AND TEMPORARY TIMBER SHALL NOT BE REMOVED UNTIL STAGE II CONSTRUCTION HAS BEEN COMPLETED.

DETAIL "A" NOTES

CONNECT ONE (1) L 203x203x12.7 x 300 TO THE TOP OF STAGE I CULVERT WITH TWO (2) EXPANSION ANCHORS PLACED IN TWO (2) HOLES. ANGLES TO BE POSITIONED NEAR EACH END OF ALL TIMBER CURBS, BUT THE OUTSIDE LAG BOLT SHALL BE AT LEAST 150mm FROM END OF TIMBER. COST INCLUDED WITH CONCRETE BOX CULVERTS.



ANGLE DETAIL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CONSTRUCTION STAGING
ILLINOIS ROUTE 71 OVER AN INTERMITTENT STREAM
F.A.P. RT. 619 - SECTION 120 BR-1
PUTNAM COUNTY
STATION 9+268.500
STRUCTURE No. 078-2008

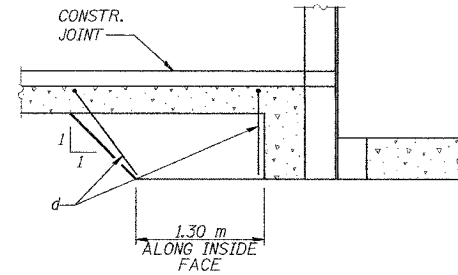
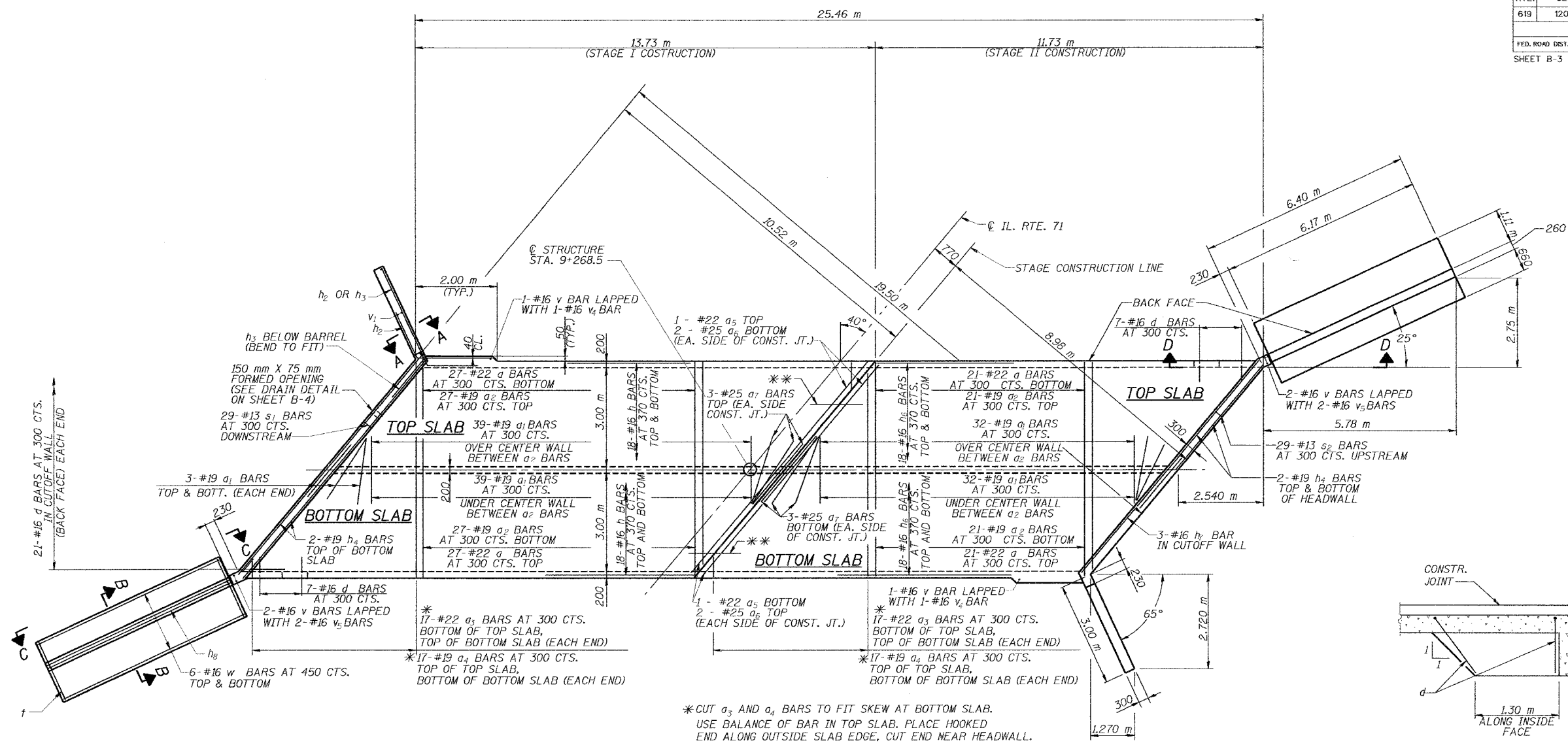
DESIGNED BY: MW DRAWN BY: KDS
CHECKED BY: SG CHECKED BY: MW

DATE: 8/31/06

TRANSYSTEMS CORPORATION

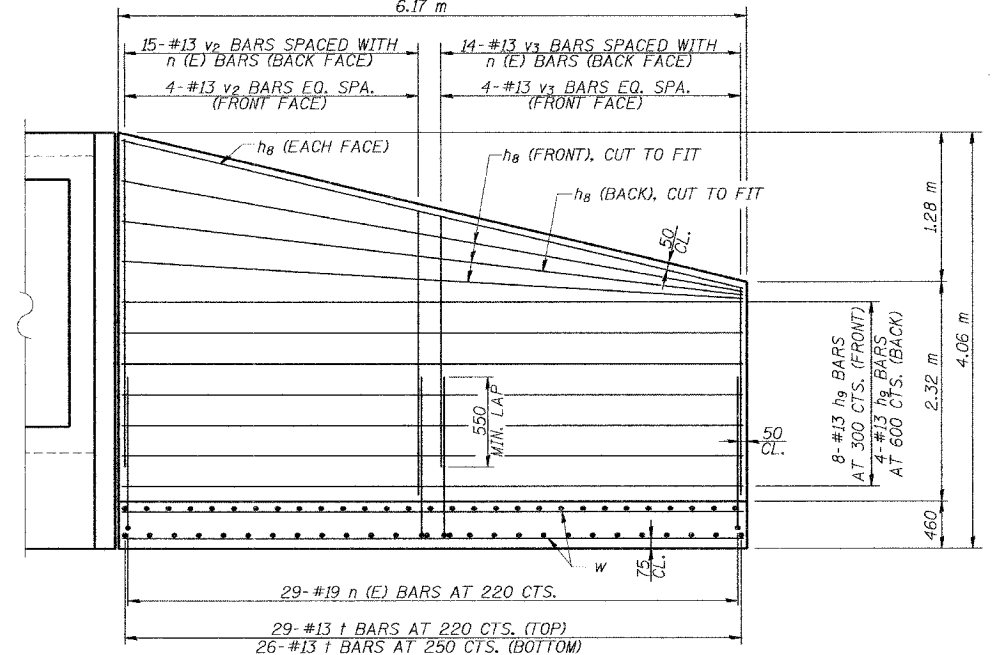
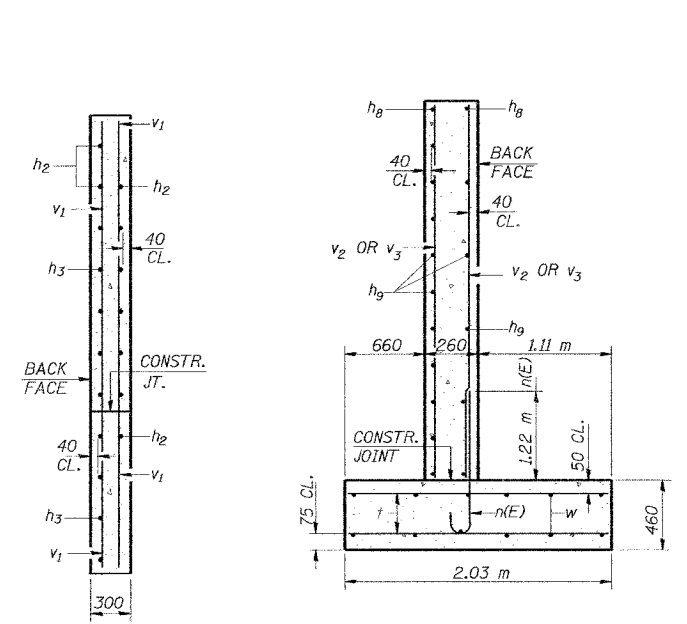
RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	120 BR-1	PUTNAM	28	16

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT- SHEET B-3 OF B-8



**36-BAR SPLICERS FOR #16 h AND h6 BARS TOP AND BOTTOM OF TOP SLAB (STAGE I)
 36-BAR SPLICERS FOR #16 h AND h6 BARS TOP AND BOTTOM OF BOTTOM SLAB (STAGE I)

* CUT a3 AND a4 BARS TO FIT SKEW AT BOTTOM SLAB.
 USE BALANCE OF BAR IN TOP SLAB. PLACE HOOKED END ALONG OUTSIDE SLAB EDGE, CUT END NEAR HEADWALL.



SECTION A-A

SECTION B-B
 (MAX. SOIL PRESSURE UNDER FOOTING = 129.3 kPa)

SECTION C-C

SECTION D-D

REVISIONS	
NAME	DATE

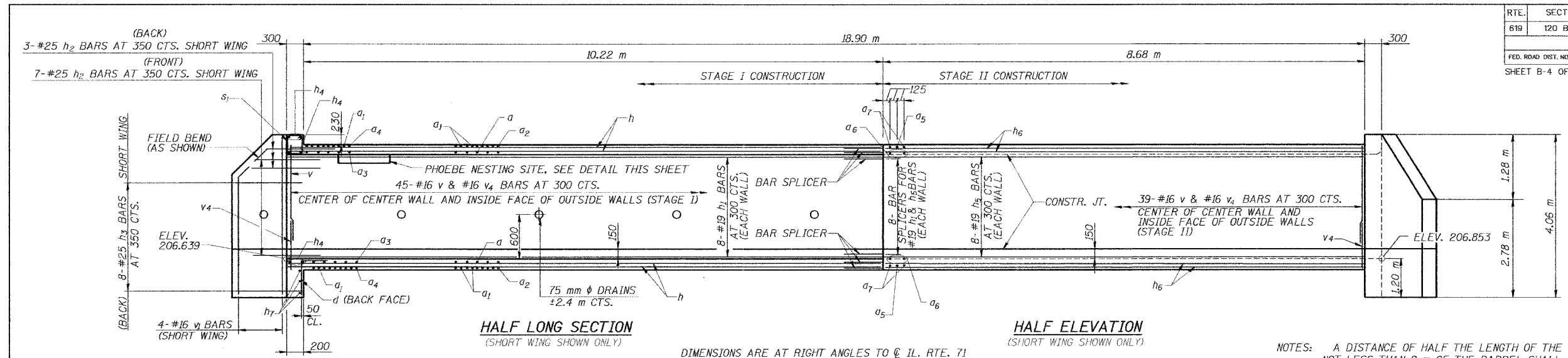
ILLINOIS DEPARTMENT OF TRANSPORTATION
CULVERT PLAN
 ILLINOIS ROUTE 71 OVER AN INTERMITTENT STREAM
 F.A.P. RT. 619 - SECTION 120 BR-1
 PUTNAM COUNTY
 STATION 9+268.500
 STRUCTURE No. 078-2008

DATE: 8/31/06 DESIGNED BY: M/M DRAWN BY: KDS
 CHECKED BY: SG CHECKED BY: M/M

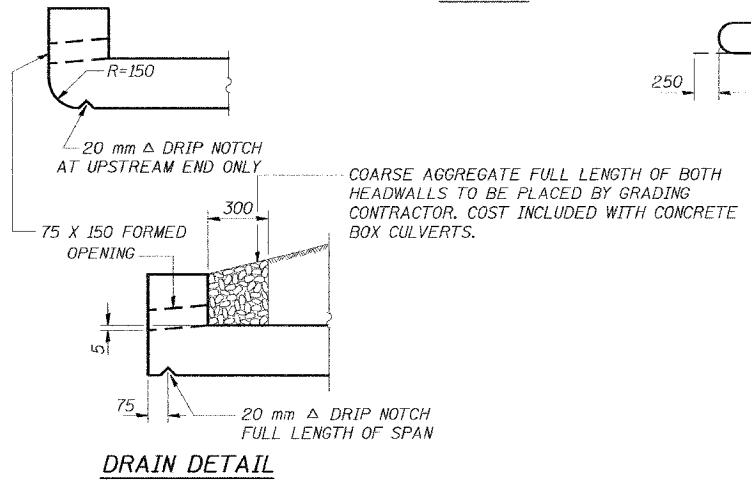
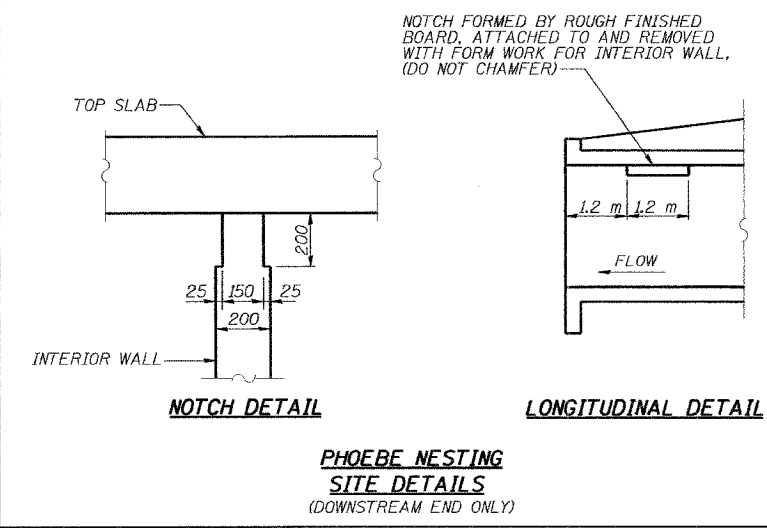
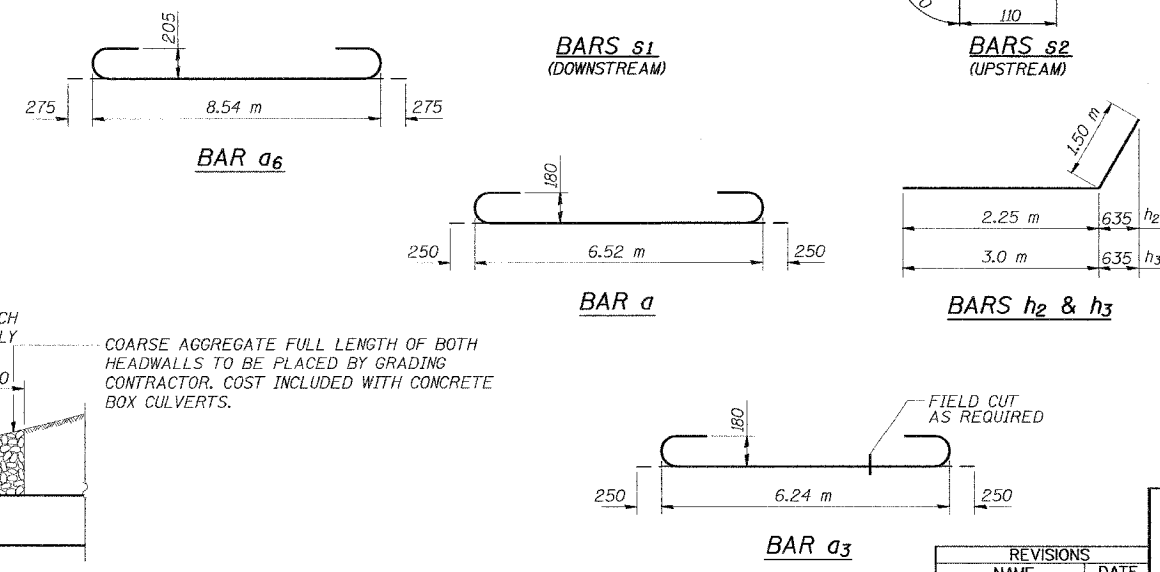
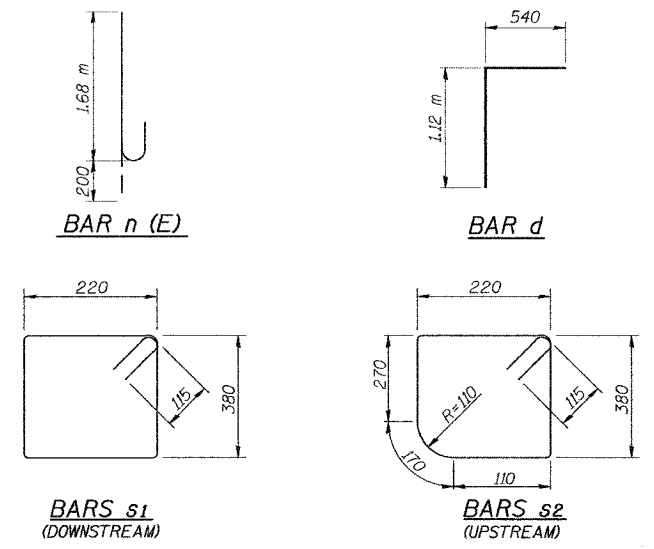
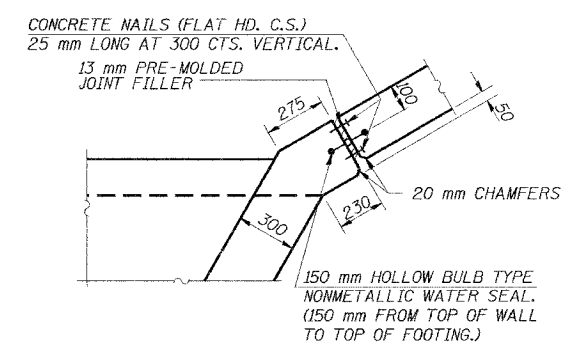
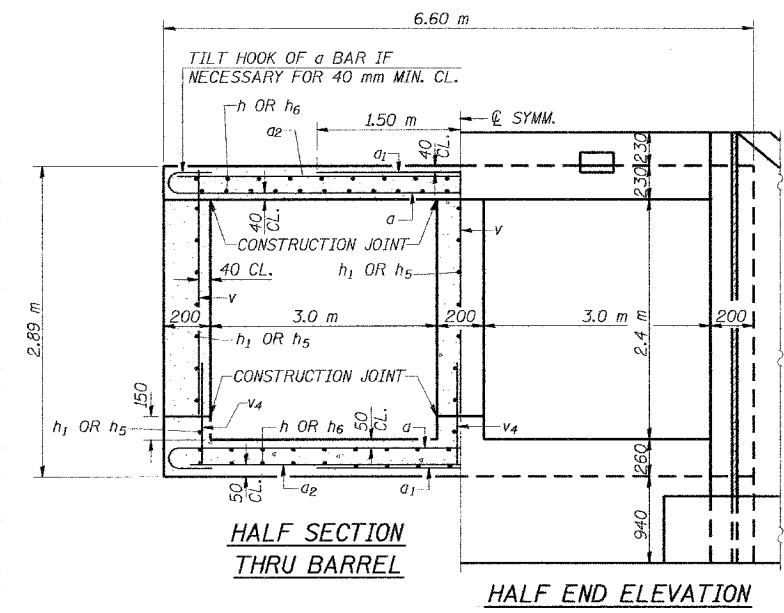
TRANSYSTEMS CORPORATION

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	120 BR-1	PUTNAM	28	17

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT- SHEET B-4 OF B-8



NOTES: A DISTANCE OF HALF THE LENGTH OF THE WINGWALL BUT NOT LESS THAN 2 m OF THE BARREL SHALL BE POURED MONOLITHICALLY WITH THE WINGWALLS.
ALL DIMENSIONS ARE IN MILLIMETERS (mm) EXCEPT AS NOTED.
REINFORCEMENT BARS DESIGNATED "E" SHALL BE EPOXY COATED.



BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
d	96	#22	7.02	U
a1	154	#19	3.00	—
a2	96	#19	6.52	—
a3	68	#22	6.74	U
a4	68	#19	6.24	—
a5	4	#22	8.54	—
a6	8	#25	9.09	—
a7	12	#25	3.50	—
d	56	#16	1.66	—
h	72	#16	13.49	—
h1	24	#19	13.49	—
h2	20	#25	3.45	—
h3	16	#25	4.50	—
h4	12	#19	8.35	—
h5	24	#19	11.64	—
h6	72	#16	11.64	—
h7	6	#16	8.35	—
h8	12	#13	6.22	—
h9	24	#13	6.09	—
s1	29	#13	1.43	□
s2	29	#13	1.38	□
v	258	#16	2.40	—
v1	8	#16	3.94	—
v2	36	#13	2.85	—
v3	38	#13	2.74	—
v4	254	#16	0.96	—
v5	4	#16	1.90	—
n (E)	58	#19	1.88	—
f	110	#13	1.95	—
w	24	#16	6.09	—
Concrete Box Culverts		m ³	152.6	
Reinforcement Bars		kg	14,880	
Reinforcement Bars, Epoxy Coated		kg	250	

REVISIONS

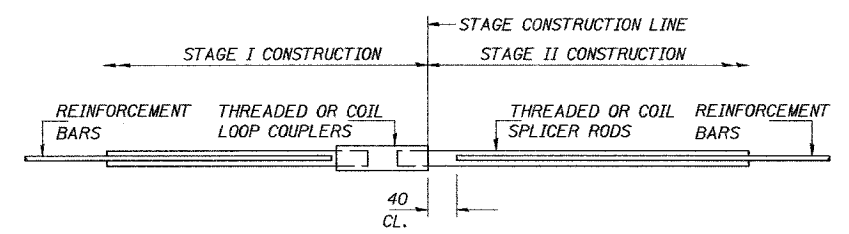
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SECTIONS AND DETAILS
ILLINOIS ROUTE 71 OVER AN INTERMITTENT STREAM
F.A.P. RT. 619 - SECTION 120 BR-1
PUTNAM COUNTY
STATION 9+268.500
STRUCTURE No. 078-2008

DATE: 8/31/06 DESIGNED BY: MW DRAWN BY: GVS
CHECKED BY: SG CHECKED BY: MW

TRANSYSTEMS CORPORATION

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	120 BR-1	PUTNAM	28	18
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT-	
SHEET B-5 OF B-8				



BAR SPLICER ASSEMBLY DETAIL

BAR SIZE	NO. ASSEMBLIES REQUIRED	LOCATION
#16	72	CULVERT TOP & BOTTOM SLAB
#19	24	CULVERT WALLS

THE DIAMETER OF THIS PART IS THE SAME AS THE DIAMETER OF THE BAR SPLICED.

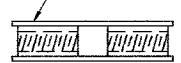
THE DIAMETER OF THIS PART IS EQUAL OR LARGER THAN THE DIAMETER OF BAR SPLICED.

ROLLED THREAD DOWEL BAR



** ONE PIECE

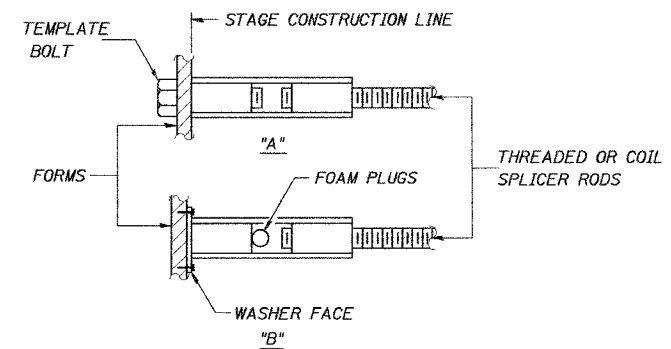
WIRE CONNECTOR



WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

** HEAVY HEX NUTS CONFORMING TO ASTM A 563M, GRADE C, D OR DH MAY BE USED.



INSTALLATION AND SETTING METHODS

"A" : SET BAR SPLICER ASSEMBLY BY MEANS OF A TEMPLATE BOLT.
 "B" : SET BAR SPLICER ASSEMBLY BY NAILING TO WOOD FORMS OR CEMENTING TO STEEL FORMS.

NOTES

BAR SPLICER ASSEMBLIES SHALL BE OF AN APPROVED TYPE AND SHALL DEVELOP IN TENSION AT LEAST 125 PERCENT OF THE YIELD STRENGTH OF THE LAPPED REINFORCEMENT BARS.

SPLICER RODS SHALL BE OF MINIMUM 400 MPa YIELD STRENGTH, THREADED OR COILED FULL LENGTH.

ALL REINFORCEMENT BARS SHALL BE LAPPED AND TIED TO THE SPLICER RODS OR DOWEL BARS.

OTHER SYSTEMS OF SIMILAR DESIGN MAY BE SUBMITTED TO THE ENGINEER FOR APPROVAL. APPROVAL SHALL BE BASED ON CERTIFIED TEST RESULTS FROM AN APPROVED TESTING LABORATORY THAT THE PROPOSED BAR SPLICER ASSEMBLY SATISFIES THE FOLLOWING REQUIREMENTS:

- MINIMUM CAPACITY (TENSION IN kN) = $1.25 \times 10^{-3} \times F_y \times A_t$
- MINIMUM *PULL-OUT STRENGTH (TENSION IN kN) = $1.25 \times 10^{-3} \times F_{s \text{ ALLOW}} \times A_t$

WHERE F_y = YIELD STRENGTH OF LAPPED REINFORCEMENT BARS IN MPa.
 $F_{s \text{ ALLOW}}$ = ALLOWABLE TENSILE STRESS IN LAPPED REINFORCEMENT BARS IN MPa (SERVICE LOAD)
 A_t = TENSILE STRESS AREA OF LAPPED REINFORCEMENT BARS (mm²).
 * = 28 DAY CONCRETE

BAR SIZE TO BE SPLICED	SPLICER ROD OR DOWEL BAR LENGTH	STRENGTH REQUIREMENTS	
		MIN. CAPACITY kN - TENSION	MIN. PULL-OUT STRENGTH kN - TENSION
#16	610 mm	100	40
#19	790 mm	150	60

BAR SPLICER ASSEMBLIES SHALL BE ACCORDING TO SECTION 508 OF THE STANDARD SPECIFICATIONS, AND PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "BAR SPLICERS."

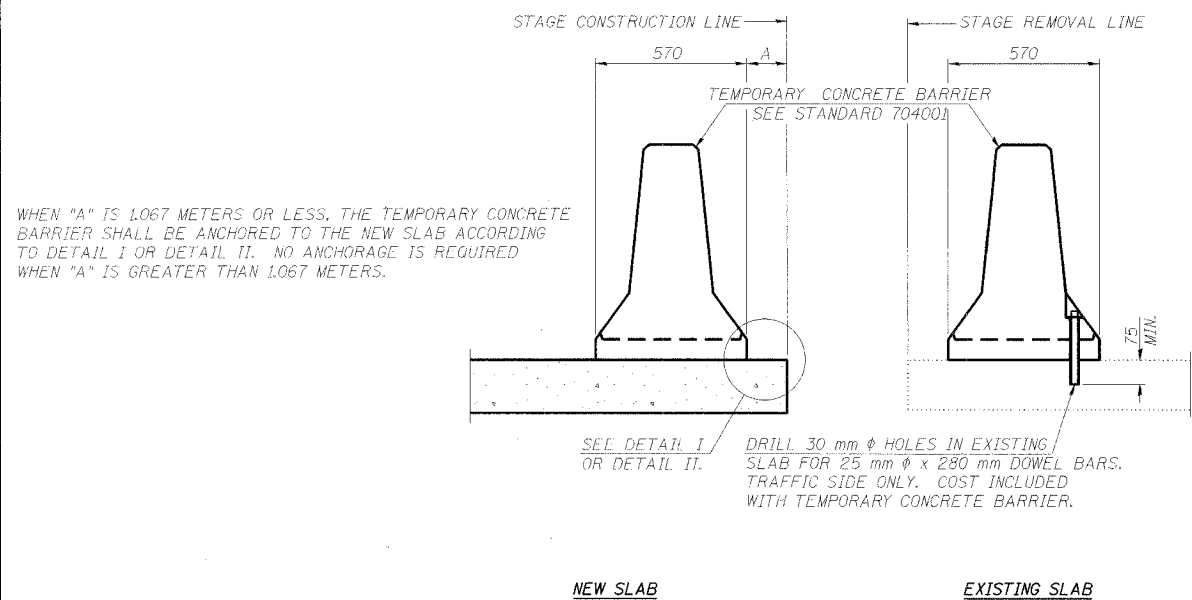
EXCEPT AS NOTED, THE FURNISHING AND INSTALLATION OF BAR SPLICER ASSEMBLIES WILL BE MEASURED ALL DIMENSIONS ARE IN MILLIMETERS (mm) EXCEPT AS NOTED.

REVISIONS	
NAME	DATE

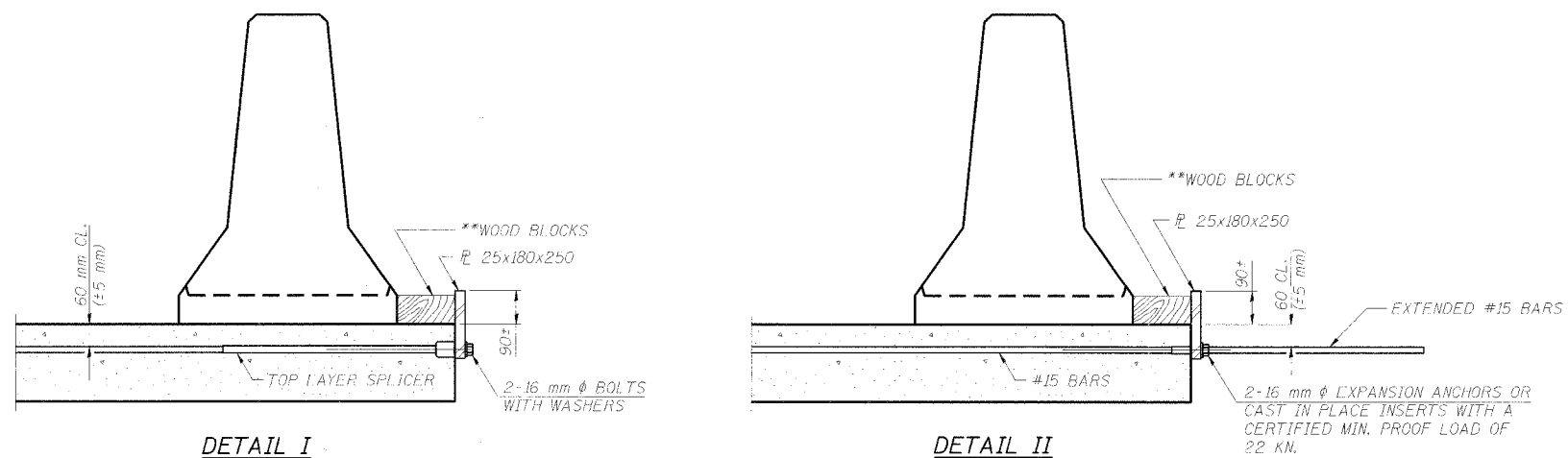
ILLINOIS DEPARTMENT OF TRANSPORTATION
BAR SPLICER ASSEMBLY DETAILS
 ILLINOIS ROUTE 71 OVER AN INTERMITTENT STREAM
 F.A.P. RT. 619 - SECTION 120 BR-1
 PUTNAM COUNTY
 STATION 9+268.500
 STRUCTURE No. 078-2008

DATE: 8/31/06 DESIGNED BY: MY DRAWN BY: KDS
 CHECKED BY: SG CHECKED BY: MY

TRANSYSTEMS CORPORATION



SECTIONS THRU SLAB



** WOOD BLOCKS MAY BE OMITTED WHEN REQUIRED TO PROVIDE MINIMUM STAGE TRAFFIC LANE WIDTH. WHEN THE WOOD BLOCKS ARE OMITTED, THE CONCRETE BARRIER SHALL BE IN DIRECT CONTACT WITH THE STEEL RETAINER PLATE.

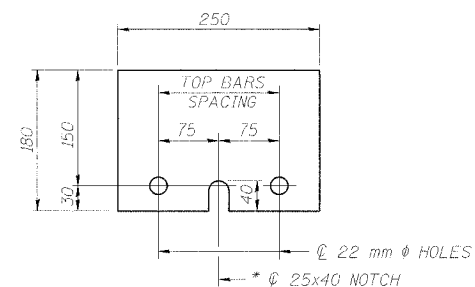
NOTES

DETAIL I - WITH BAR SPLICER OR COUPLERS:
CONNECT ONE (1) 25x180x250 STEEL PLATE TO THE TOP LAYER OF COUPLERS WITH 2-16 mm Ø BOLTS SCREWED TO COUPLER AT APPROXIMATE $\frac{1}{2}$ OF EACH BARRIER PANEL.

DETAIL II - WITH EXTENDED REINFORCEMENT BARS:
CONNECT ONE (1) 25x180x250 STEEL PLATE TO THE CONCRETE SLAB WITH 2-16 mm Ø EXPANSION ANCHORS OR CAST IN PLACE INSERTS SPACED BETWEEN THE TOP LAYER OF REINFORCEMENT AT APPROXIMATE $\frac{1}{2}$ OF EACH BARRIER PANEL.

COST OF ANCHORAGE IS INCLUDED WITH TEMPORARY CONCRETE BARRIER. THE 25x180x250 PLATE SHALL NOT BE REMOVED UNTIL STAGE II CONSTRUCTION FORMS AND ALL REINFORCEMENT BARS ARE IN PLACE AND THE CONCRETE IS READY TO BE PLACED.

ALL DIMENSIONS ARE IN MILLIMETERS (mm) EXCEPT AS NOTED.



STEEL RETAINER PLATE 25x180x250
* REQUIRED ONLY WITH DETAIL II

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
 ILLINOIS ROUTE 71 OVER AN INTERMITTENT STREAM
 F.A.P. RT. 619 - SECTION 120 BR-1
 PUTNAM COUNTY
 STATION 9+268.500
 STRUCTURE No. 078-2008

DATE: 11/21/06 DESIGNED BY: MW DRAWN BY: KDS
 CHECKED BY: SG CHECKED BY: MW

TRANSYSTEMS CORPORATION
100 PROGRESS DRIVE, SUITE 200
 CHANDLER, ILLINOIS 60510-1000
 TEL: (847) 485-2600
 FAX: (847) 485-2602

PROJECT Structure 078-0031, Illinois Route 71, Putnam County, IL

CLIENT TransSystems Corp., Schaumburg, IL

BORING B-3 DATE STARTED 1-23-98 DATE COMPLETED 1-23-98 JOB 43,757

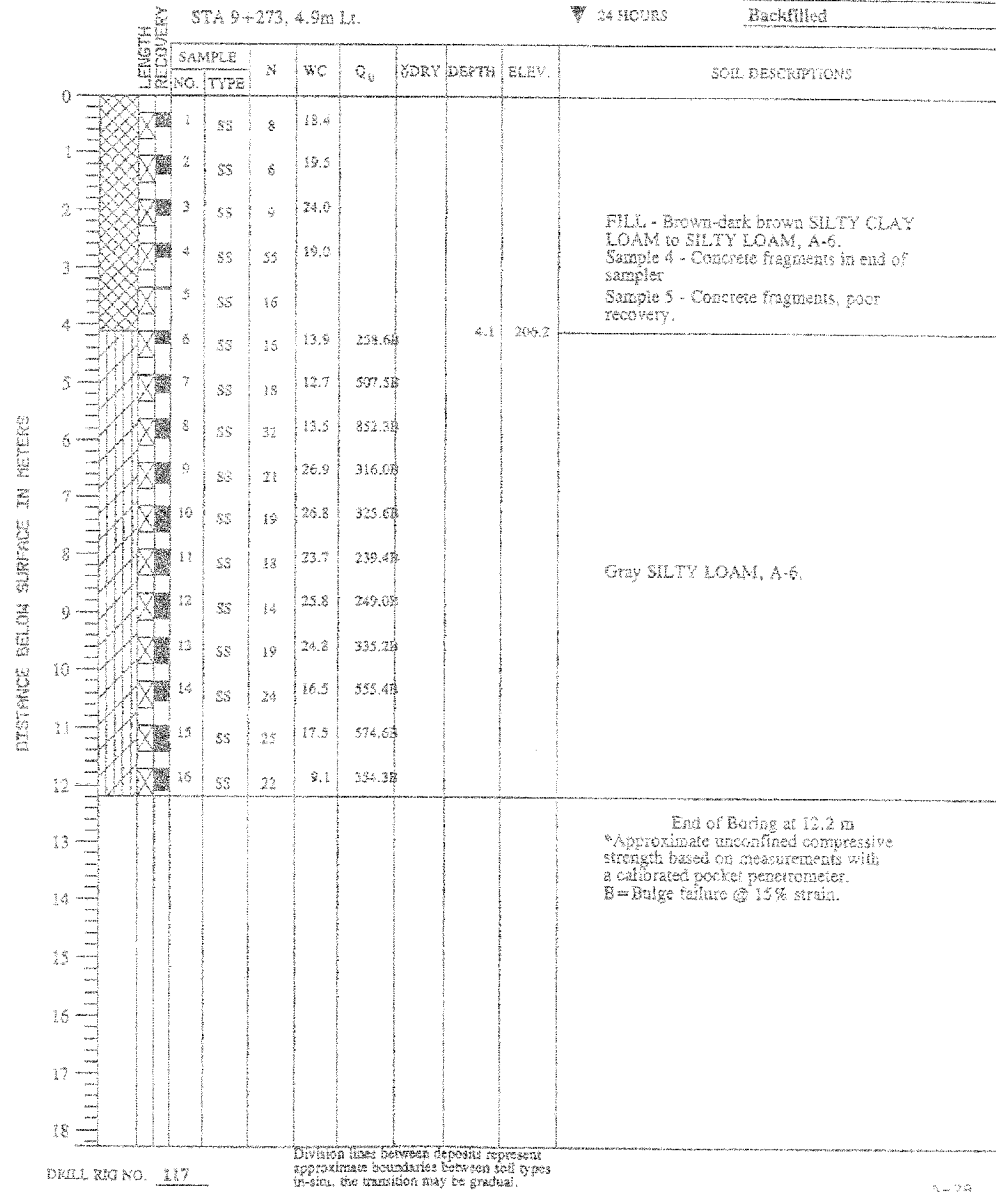
ELEVATIONS WATER TABLE

GROUND SURFACE 219.2 WHILE DRILLING DRY

END OF BORING 198.0 AT END OF BORING DRY

24 HOURS Backfilled

STA 9+273, 4.9m Lt.



PROJECT Structure 078-0031, Illinois Route 71, Putnam County, IL

CLIENT TransSystems Corp., Schaumburg, IL

BORING B-4 DATE STARTED 2-4-98 DATE COMPLETED 2-4-98 JOB 43,757

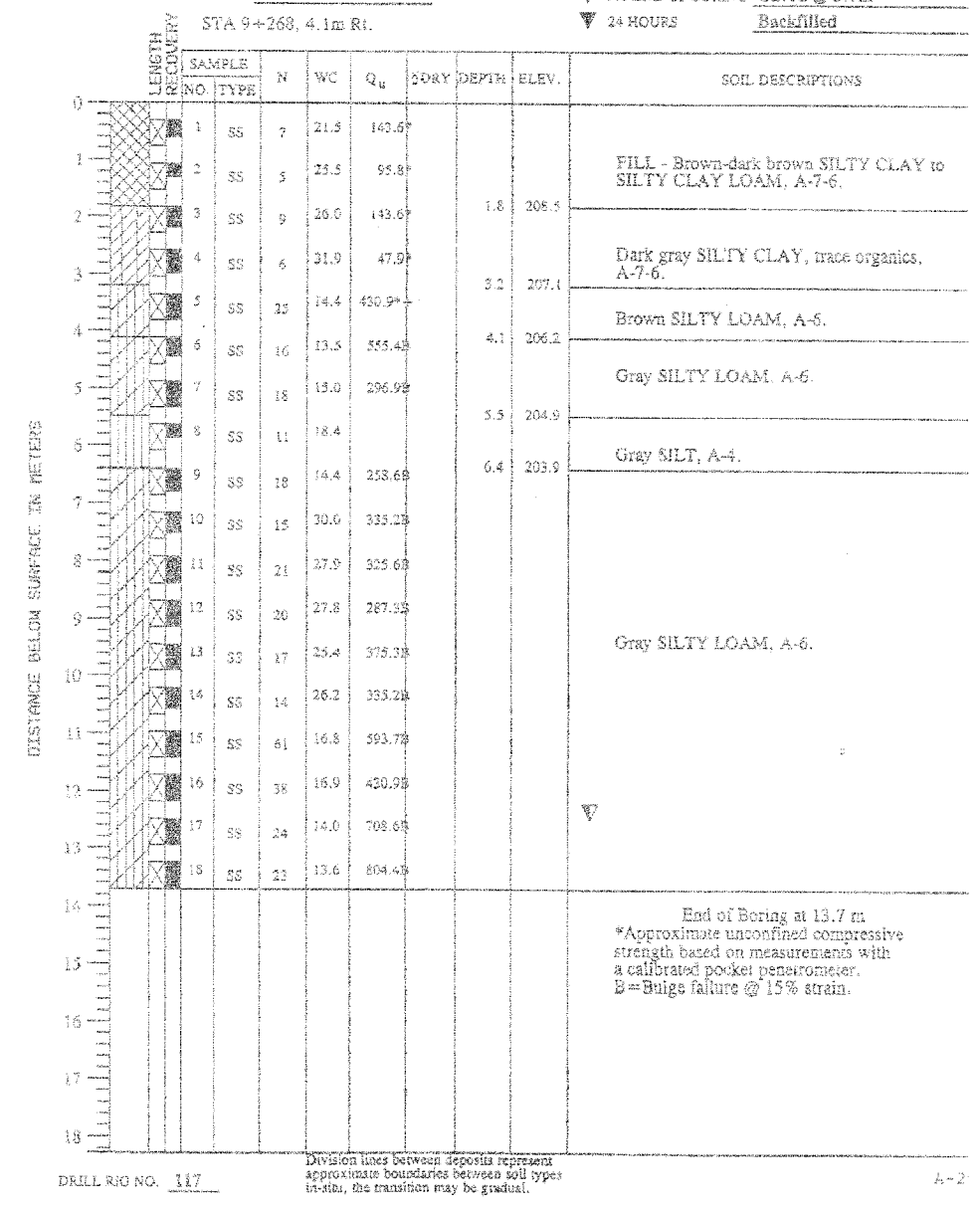
ELEVATIONS WATER TABLE

GROUND SURFACE 210.3 WHILE DRILLING 12.5m

END OF BORING 196.6 AT END OF BORING Caved @ 3.7m

24 HOURS Backfilled

STA 9+268, 4.1m Rt.



ILLINOIS DEPARTMENT OF TRANSPORTATION

SOIL BORINGS - 1 OF 2

ILLINOIS ROUTE 71 OVER AN INTERMITTENT STREAM
F.A.P. RT. 619 - SECTION 120 BR-1
PUTNAM COUNTY
STATION 9+268.500
STRUCTURE No. 078-2008

DESIGNED BY: MV DRAWN BY: KDS
CHECKED BY: SG CHECKED BY: MV

DATE: 8/31/06

TRANSYSTEMS CORPORATION

REVISIONS	
NAME	DATE

11/28/06 11:08:36 AM

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	120 BR-1	PUTNAM	28	21

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT-
SHEET B-8 OF B-8

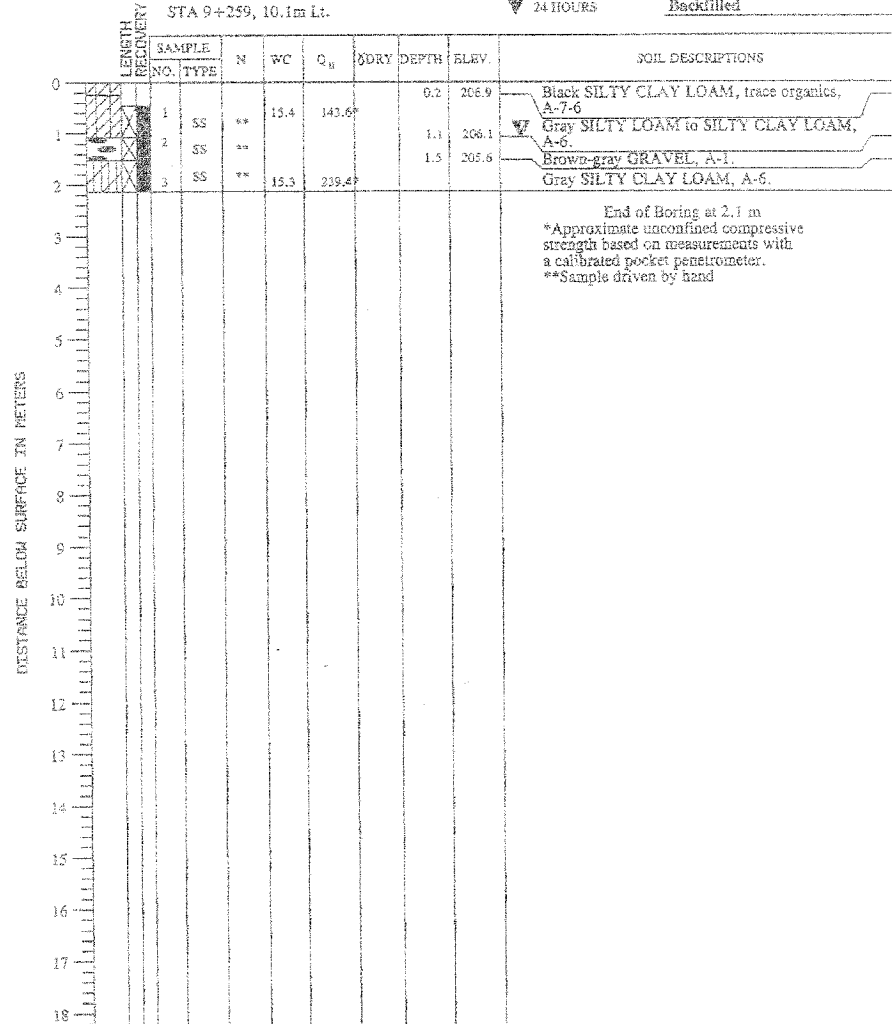
PROJECT Structure 078-0031, Illinois Route 71, Putnam County, IL
 CLIENT TransSystems Corp., Schaumburg, IL



BORING B-7 DATE STARTED 1-26-98 DATE COMPLETED 1-26-98 JOB 43,757

ELEVATIONS WATER TABLE
 GROUND SURFACE 207.1 WHILE DRILLING 1.1m
 END OF BORING 205.0 AT END OF BORING 1.1m
 24 HOURS Backfilled

STA 9+259, 10.1m Lt.



DRILL RIG NO. HA

Division lines between deposits represent approximate boundaries between soil types in-situ. The transition may be gradual.

A-32

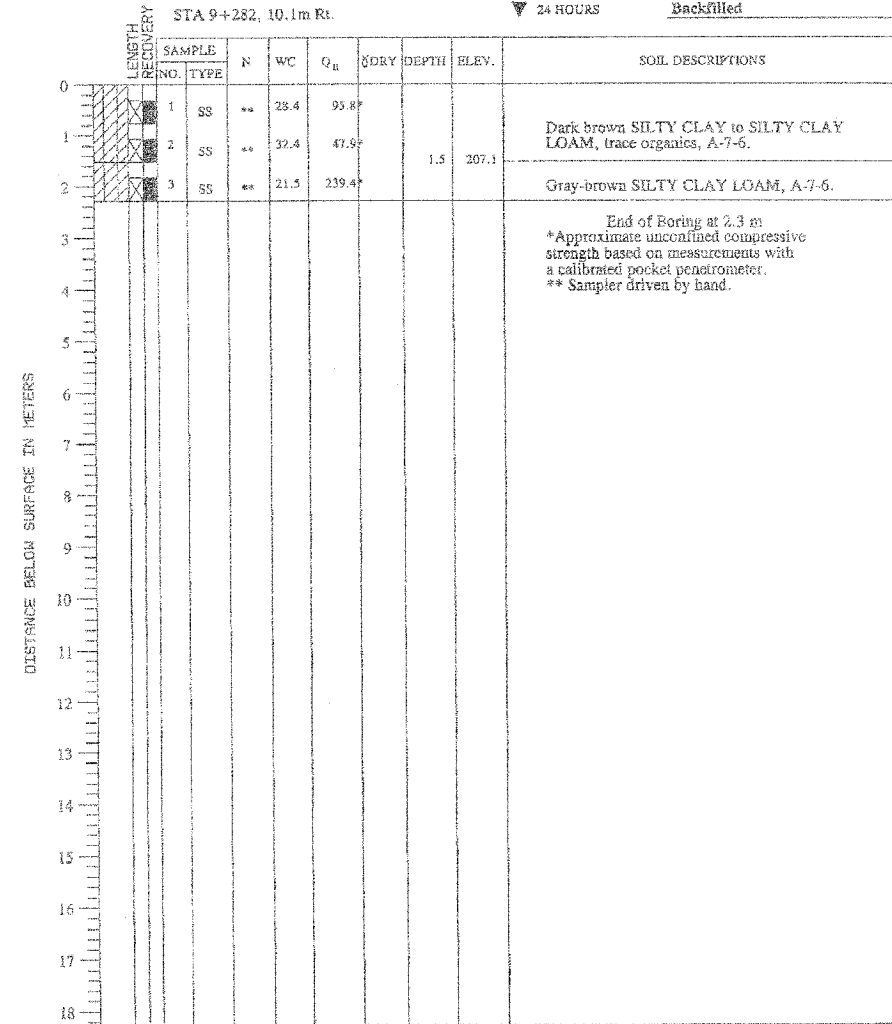
PROJECT Structure 078-0031, Illinois Route 71, Putnam County, IL
 CLIENT TransSystems Corp., Schaumburg, IL



BORING B-8 DATE STARTED 1-26-98 DATE COMPLETED 1-26-98 JOB 43,757

ELEVATIONS WATER TABLE
 GROUND SURFACE 208.5 WHILE DRILLING DRY
 END OF BORING 206.2 AT END OF BORING DRY
 24 HOURS Backfilled

STA 9+282, 10.1m Rt.



DRILL RIG NO. HA

Division lines between deposits represent approximate boundaries between soil types in-situ. The transition may be gradual.

A-33

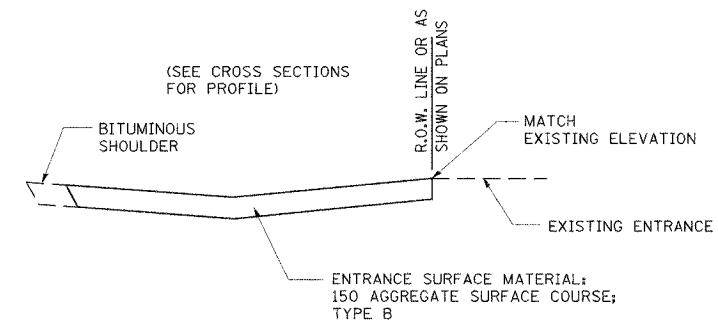
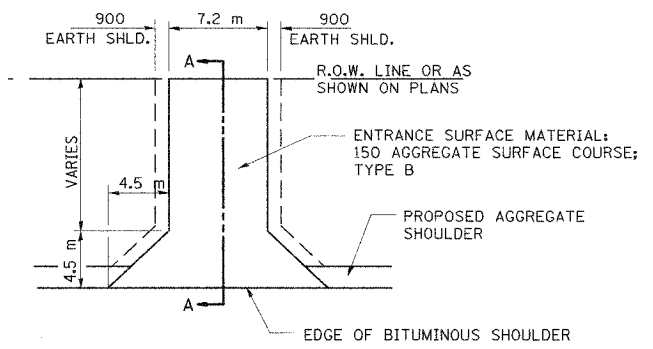
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SOIL BORINGS - 2 OF 2
 ILLINOIS ROUTE 71 OVER AN INTERMITTENT STREAM
 F.A.P. RT. 619 - SECTION 120 BR-1
 PUTNAM COUNTY
 STATION 9+268.500
 STRUCTURE No. 078-2008

DATE: 8/31/06 DESIGNED BY: MV DRAWN BY: KDS
 CHECKED BY: SG CHECKED BY: MV

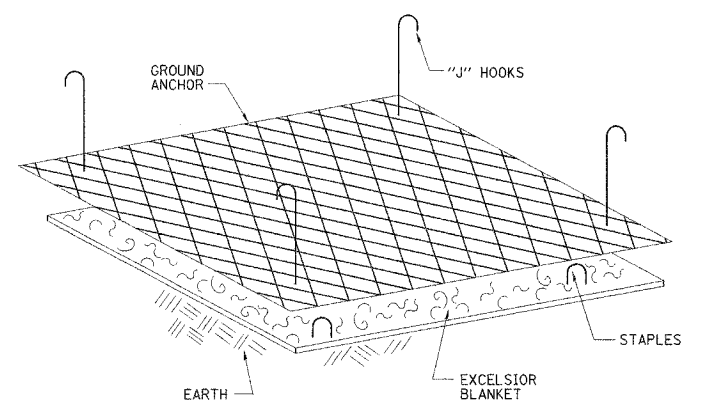
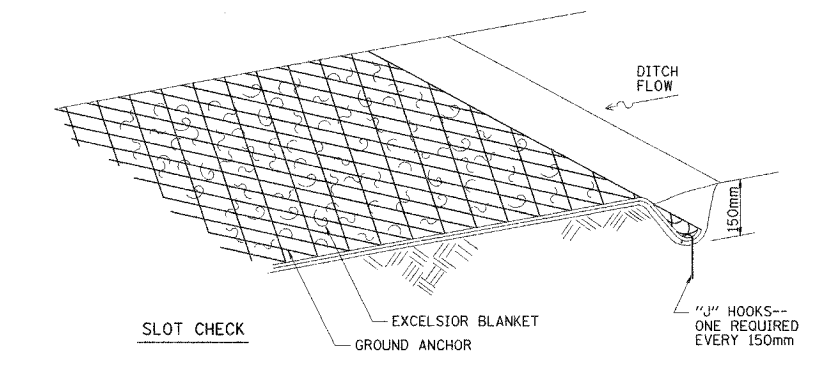
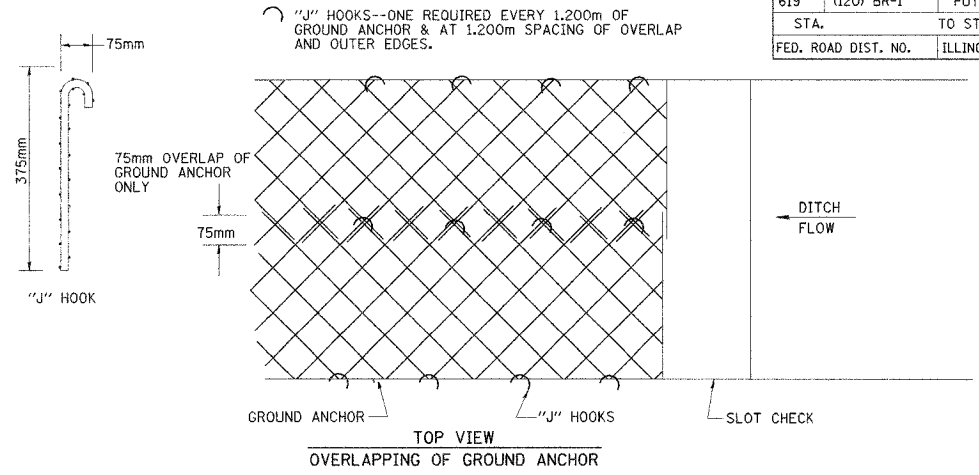
TRANSYSTEMS CORPORATION
300 PARKWAY DRIVE, SUITE 200
 SCHMAMBERG, ILLINOIS 60196-1008
 TEL: 815-353-8800
 FAX: 815-353-8802

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	(120) BR-1	PUTNAM	28	22
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



FIELD ENTRANCE DETAIL 402-1

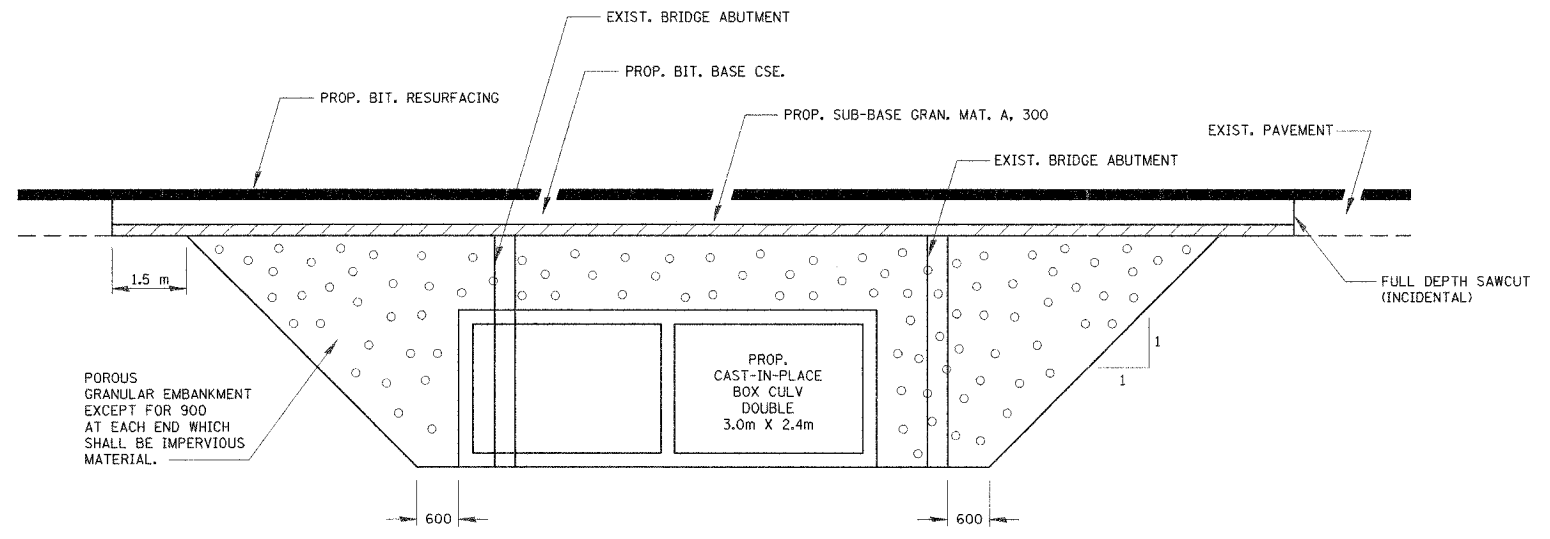
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.



- NOTES:
- EXCELSIOR BLANKET IS STAPLED INTO GROUND.
 - GROUND ANCHOR GOES OVER EXCELSIOR BLANKET AND IS FASTENED WITH "J" HOOKS EVERY 1.200m.
 - PAY WIDTH WILL BE MEASURED TO OUT-TO-OUT OF GROUND ANCHOR WITH NO CONSIDERATION FOR OVERLAPS.

EXCELSIOR BLANKET (SPECIAL) DETAILS

251-4



ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

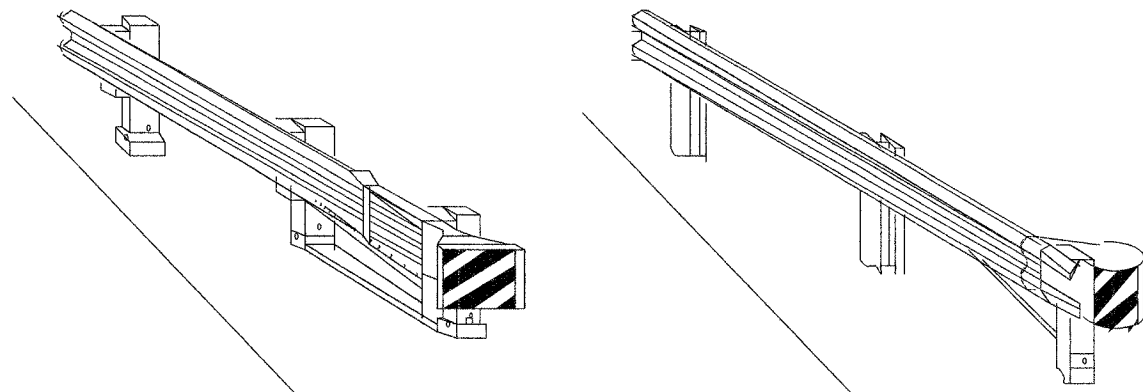
SECTION THROUGH CAST-IN-PLACE BOX CULVERT

540-21

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		CONSTRUCTION DETAILS
DATE		DRAWN BY
		CHECKED BY

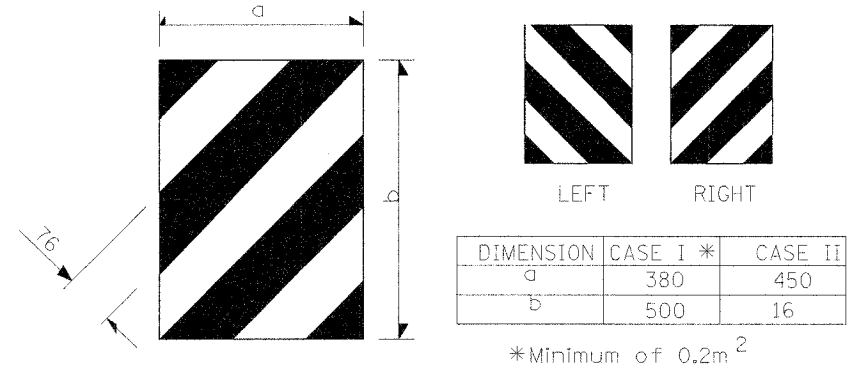
OCT. 1996
 [DETAILS] 200299.DGN
 251-1, 251-2, 251-3, 251-4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	(120) BR-1	PUTNAM	28	23
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

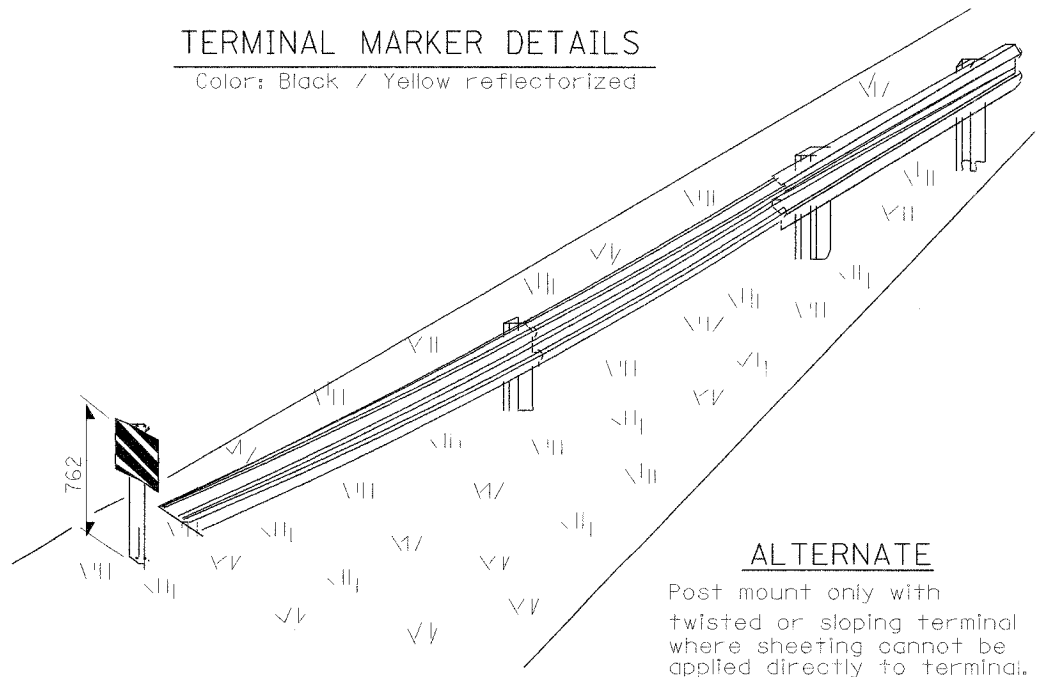


CASE I

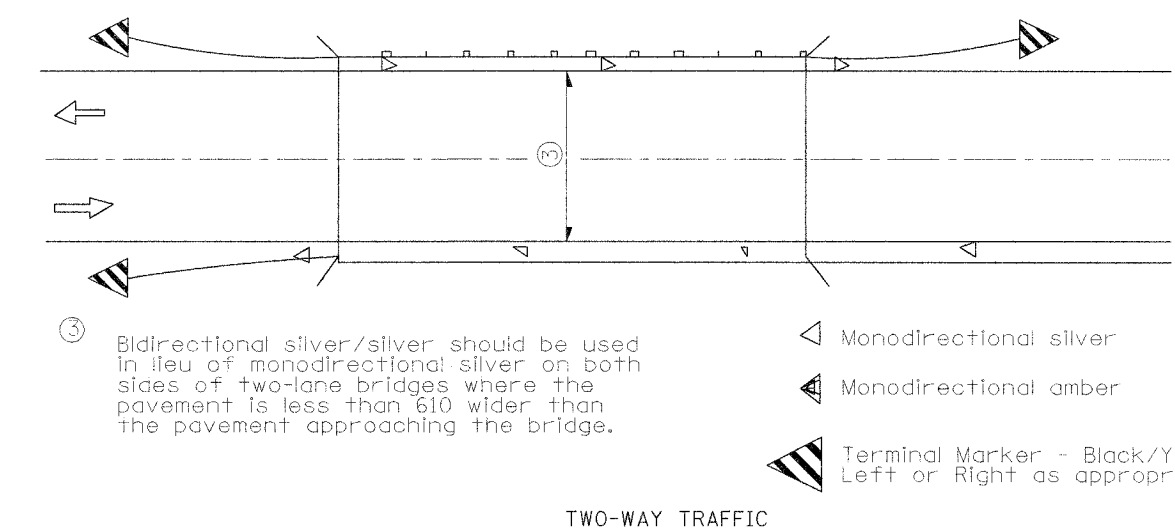
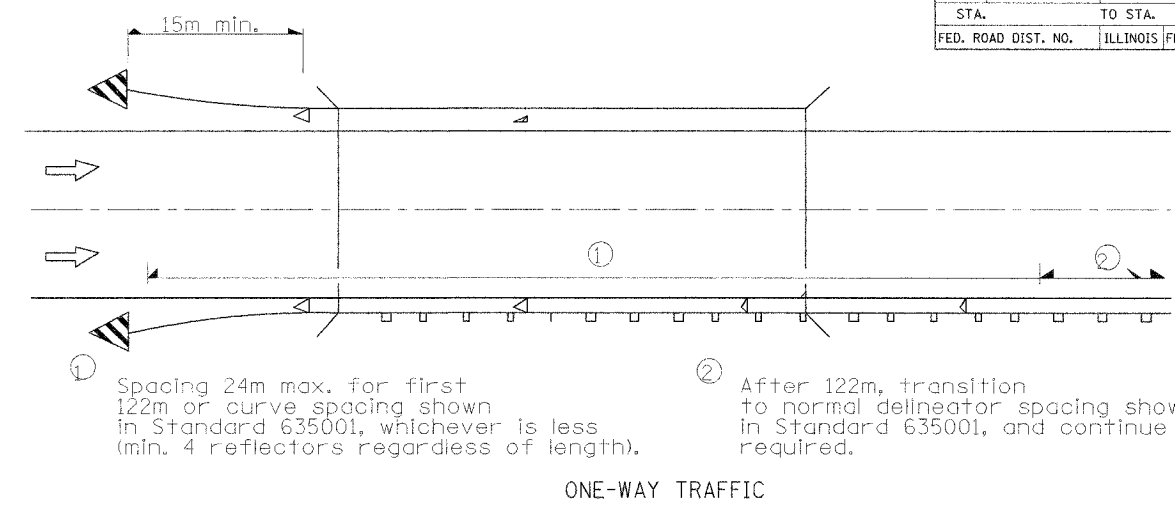
CASE II



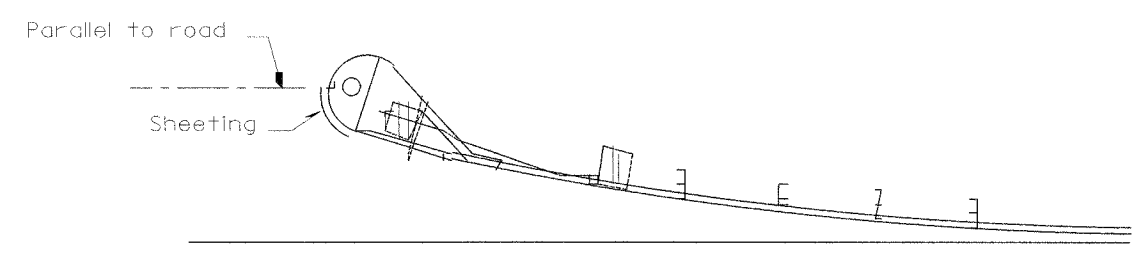
TERMINAL MARKER DETAILS
Color: Black / Yellow reflectorized



ALTERNATE
Post mount only with twisted or sloping terminal where sheeting cannot be applied directly to terminal.



GUARDRAIL / BARRIER WALL / BRIDGE RAIL REFLECTORS



SHEETING POSITION: CASE II

635-1

REFLECTOR AND TERMINAL MARKER PLACEMENT

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS

DATE

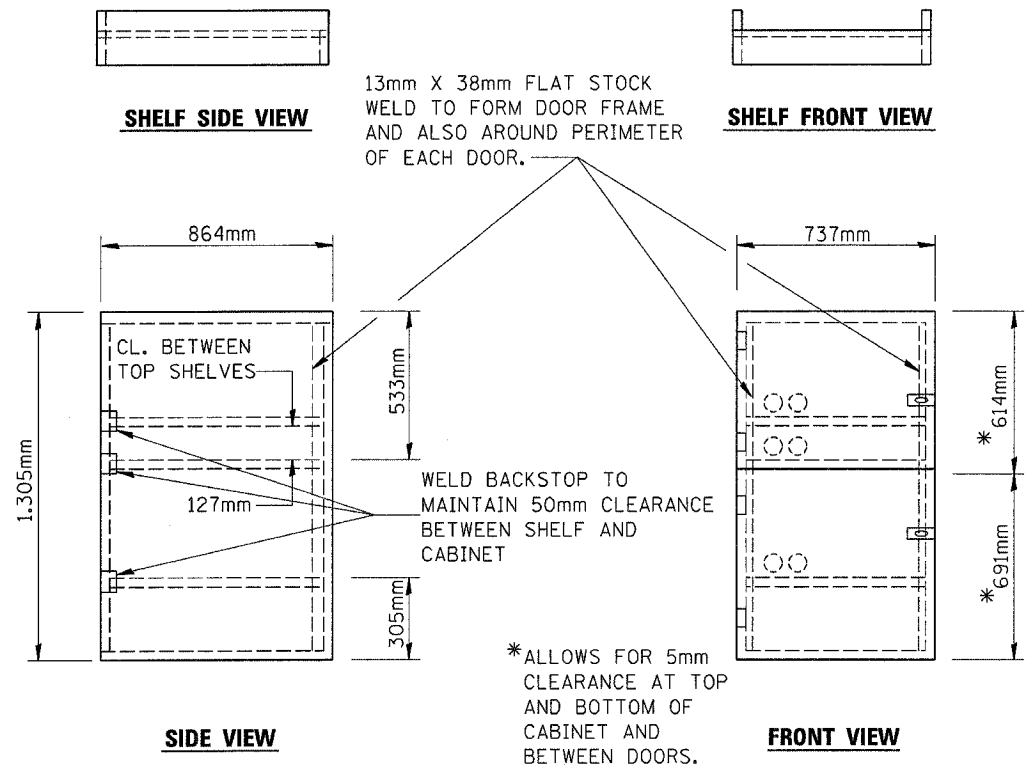
DRAWN BY

CHECKED BY

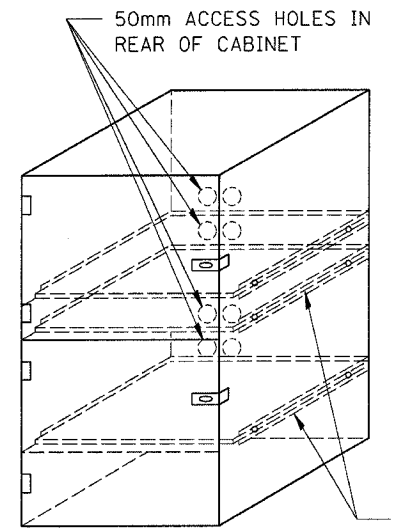
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

OCT. 1996
[DETAILS] 200299.DGN
251-1, 251-2, 251-3, 251-4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	(120) BR-1	PUTNAM	28	24
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



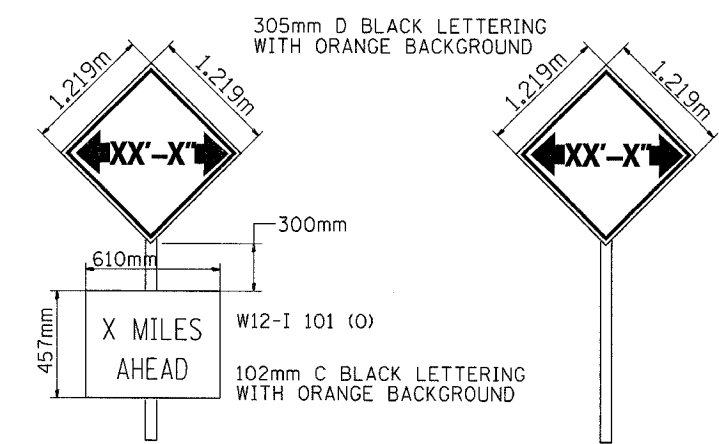
- NOTES:
1. USE 16 GAUGE STEEL FOR CABINET.
 2. THE TOP SHELF SHALL SLIDE IN OR OUT WITH THE TOP DOOR OPEN.
 3. ALL HINGES AND HASPS WILL BE WELDED TO THE CABINET.
 4. ALL EDGES SHALL BE GROUND SMOOTH.
 5. TWO (50mm DIA.) ACCESS HOLES WILL BE REQUIRED FOR EACH SHELF.
 6. CABINET SHALL BE PAINTED WITH TWO COATS OF FLAT PAINT.
 7. 2 EACH MATCHING KEY PADLOCKS, WITH 3 KEYS PROVIDED, MASTER MODEL 3 T OR EQUIVALENT.
 8. 4 EACH PLAIN STEEL, NON-REMOVABLE PIN, NO HOLE 100mmX100mm SQUARE CORNER HINGES TO BE WELDED ON.
 9. 2 EACH EXTRA HEAVY, PLAIN STEEL, FIXED STAPLE, NO HOLE, 180mm HASPS TO BE WELDED ON.



FLAT STOCK DIMENSIONS VARY DEPENDING ON TYPE OF ROLLER ASSEMBLY.

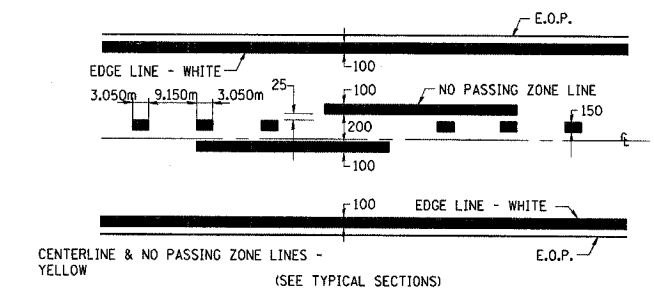
LOCKABLE COMPUTER CABINET

670-1



TO BE POST MOUNTED AS SHOWN ELSEWHERE IN THE PLANS. THE CONTRACTOR SHALL NOTIFY DISTRICT 3 BUREAU OF OPERATIONS 14 CALENDAR DAYS PRIOR TO INSTALLING ANY TRAFFIC CONTROL DEVICES THAT WILL RESTRICT THE PAVEMENT WIDTH.

WIDTH RESTRICTION SIGNING DETAILS 702-5



PAVEMENT MARKING

780-8

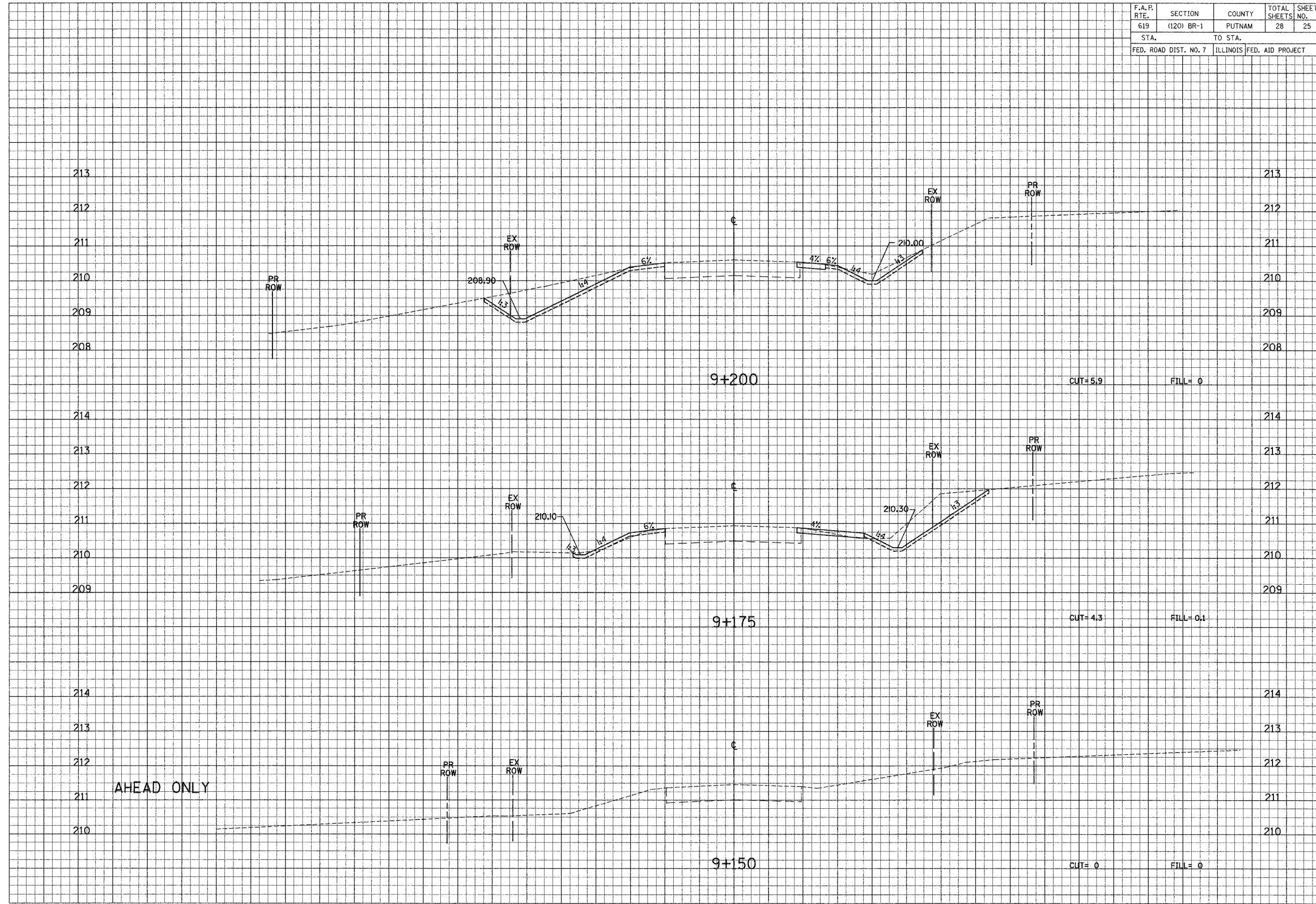
ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		CONSTRUCTION DETAILS
DATE		DRAWN BY
		CHECKED BY

OCT. 1996
IDETA1LS1 200299.DGN
251-1, 251-2, 251-3, 251-4

F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	(120) BR-1	PUTNAM	28	25
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		

BY	DATE
FINA SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	AREAS CHECKED



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

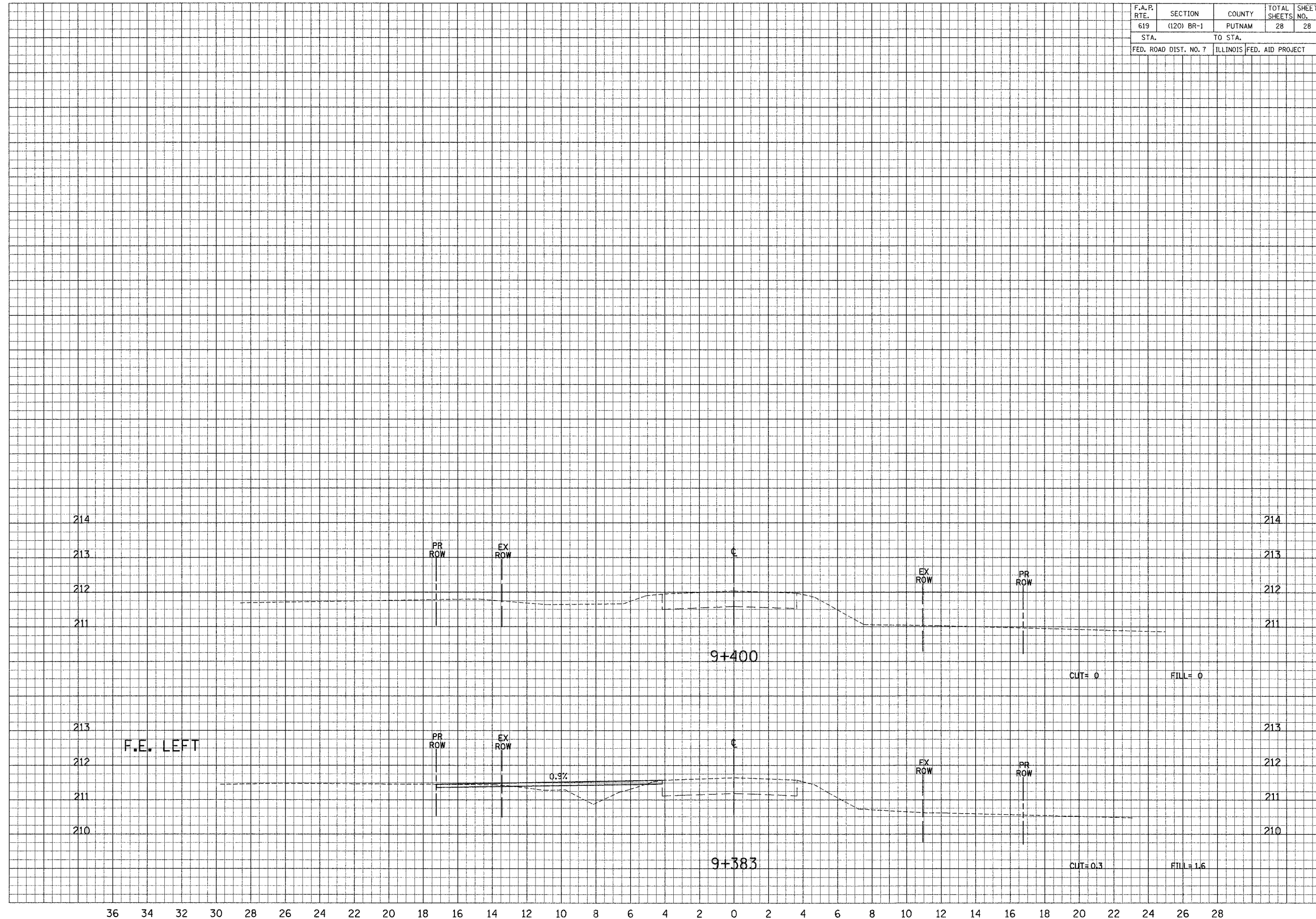
AHEAD ONLY

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F.A.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	(120) BR-1	PUTNAM	28	28
STA.		TO STA.		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		

FINAL SURVEY NO.	DATE
BY	
SURVEYED	
PLOTTED	
AREAS CHECKED	

ORIGINAL SURVEY NO.	DATE
BY	
SURVEYED	
PLOTTED	
AREAS CHECKED	



36 34 32 30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	(120) BR-1	PUTNAM	28	28A
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

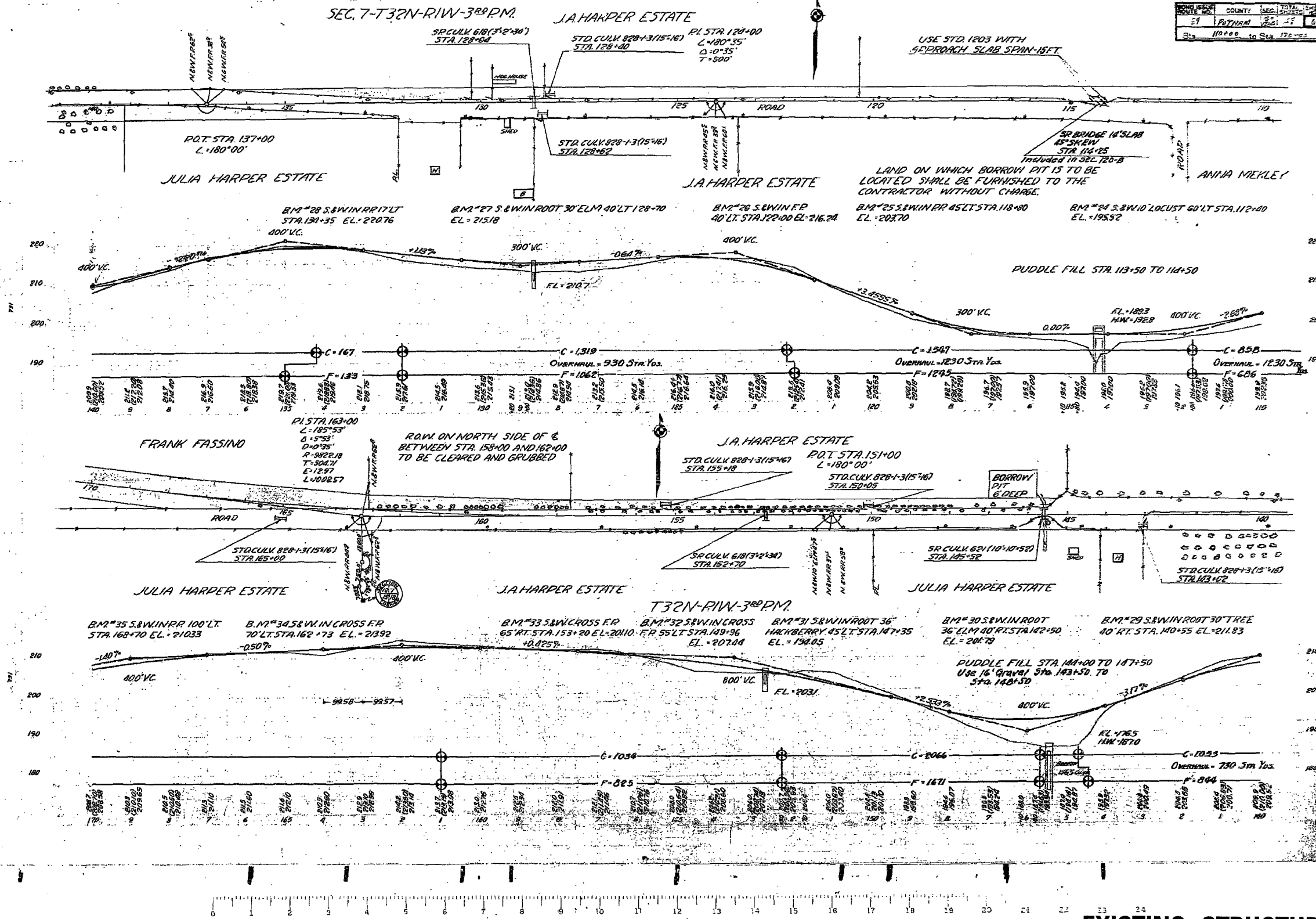
INDEX OF SHEETS

SHEET NO.	TITLE PAGE
1	STANDARD CROSS SECTION NO. 1200, 1201
2	STANDARD CROSS SECTION NO. 1202, 1203 (WITH CHANG)
3	PLAN AND PROFILE STA. 0+00 TO STA. 30+00
4	10+00
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	(120) BR-1	PUTNAM	28	28B
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FOR INFORMATION ONLY

ROUTE 89-SEC. 120-PUTNAM CO.



EXISTING STRUCTURE PLANS

PLOT DATE = 9/19/2006
 FILE NAME = #FILE#
 PLOT SCALE = #SCALE#
 USER NAME = #USER#

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
619	(120) BR-1	PUTNAM	28	28C
STA. TO STA.				
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

FOR INFORMATION ONLY

PLOT DATE = 5/19/2006
 FILE NAME = #FILEL*
 PLOT SCALE = #SCALE*
 USER NAME = #USER*

Sheet No. 2
3 Sheets

COND. NO.	COUNTY	SEC.	TOTAL SHEETS	SHEET NO.
89	PUTNAM	120-B	48	42

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

R.C. ABUTMENTS FOR SLAB BRIDGE
 HEIGHT OVER ALL 1 1/2 FEET

Existing Structure 1 Beam Stringers with Wood Floor Span 10' Ealy 16" to be removed B.M. 225 S&W in RR 43' Lt. Sta 118+80 El. 203.70

SECTION OF ABUTMENT

SHOWING OUTLINES

ELEVATION

SHOWING REINFORCEMENT

END OF WING

Bars	No.	Size	Length
V	104	3/4"	71.9'
W	22	3/4"	81.9'
X	20	3/4"	71.3'
Y	8	3/4"	81.0'
Z	14	3/4"	71.0'
AA	2	3/4"	10.6'
BB	2	3/4"	5.3'
CC	2	3/4"	5.3'
DD	44	3/4"	5.3'
EE	8	3/4"	17.0'
FF	104	3/4"	5.0'
GG	84	3/4"	4.3'

Remaining Steel Lins 3740
 Concrete 41.12 cu. yd.

Class A concrete shall be used throughout. Proportions: 1:2 1/2:4. All reinforcing steel shall be secured in place by concrete in poured.

May 23, 2006
 J. J. [Signature]
 [Signature]
 [Signature]

5 B1 RTE 89 SEC. 120-B
 PUTNAM COUNTY
 STA. 114+25

977

Sheet No. 3
3 Sheets

COND. NO.	COUNTY	SEC.	TOTAL SHEETS	SHEET NO.
89	PUTNAM	120-B	48	42

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

10 Ton Unit Pile 8" typ 10" buff
 Req'd. 70 Est. Length 1050 Lin. Ft

PLAN

FLOW

10 Ton Unit Pile 8" typ 10" buff
 Req'd. 70 Est. Length 1050 Lin. Ft

5 B1 RTE 89 SEC. 120-B
 PUTNAM COUNTY
 STA. 114+25

May 23, 2006
 J. J. [Signature]
 [Signature]
 [Signature]

CONTRACT NO. 68581			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
619	(120) BR-1	PUTNAM	28 28D
STA.	TO STA.		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS
REINFORCED CONCRETE SLAB
SPAN - 14'-0" AT RT. 2

SOIL ISSUE COUNTY SEC. TOTAL SHEET NO. PUTNAM 1286 48 42

BILL OF MATERIALS

ITEM NO.	DESCRIPTION	QUANTITY	UNIT	PRICE	TOTAL
1	CONCRETE	14.0	CU YD	1.25	17.50
2	REINFORCING BARS	1.2	TONS	100.00	120.00
3	FORMWORK	14.0	SQ YD	1.00	14.00
4	WATER	14.0	CU YD	0.10	1.40
5	ADDITIONAL COSTS				
6	TOTAL				152.90

SBI ROUTE 89 SEC. 120-B
PUTNAM COUNTY
STA. 114+25

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

Standard Pavement
Expansion Joint
All Metallic Air-Chamber
Approach Slab 9" Uniform thickness - No center joint
Bifuminous felt joint
4" Pavement
Bridge Super-structure
Span
3 1/2" Cylinders
See table for these bars
Slope 1:1
Back Fill
Bed of Stream
Not less than 3 ft.

DETAIL OF MUD JACK CYLINDER
Standard black iron pipe cylinder to be filled with clay, tamped & hardened
Note: A welded bar mat weighing not less than 70 lbs. per 100 sq ft. having members of equal size in both directions and spaced not over 8 inches apart, may be used in place of the 3/4" welded wire fabric (C16) provided that the bar mat is furnished at no additional cost to the State.

DETAILS OF JOINT
For skew of 10° or more use 2" x 2" bars
For skew of 5° to 10° use 1 1/2" x 2" bars
For skew of less than 5° use 1" x 2" bars

STANDARD DETAILS FOR PAVEMENT AND CONSTRUCTION JOINT ADJACENT TO BRIDGES

STANDARD NO. 1203

APRIL 11, 1932
RETRACTED

EXAMINED
PASSED
G. F. Burch
MUNICIPAL ENGINEER

BARS PARALLEL TO ϕ

SPAN	LENGTH	SIZE	SPCS
7'-0"	9'-0"	1 1/2"	6
8'-0"	10'-0"	1 1/2"	5
9'-0"	11'-0"	1 1/2"	5
10'-0"	12'-0"	1 1/2"	5
11'-0"	13'-0"	1 1/2"	4
12'-0"	14'-0"	1 1/2"	4
13'-0"	15'-0"	1 1/2"	5
14'-0"	16'-0"	1 1/2"	5
15'-0"	17'-0"	1 1/2"	4
16'-0"	18'-0"	1 1/2"	4
17'-0"	19'-0"	1 1/2"	5
18'-0"	20'-0"	1 1/2"	4

PLOT DATE = 9/19/2006
PLOT WORK = #111111
PLOT USER = #111111

EXISTING STRUCTURE PLANS