9-17-10 LETTING ITEM 027

F.A.P RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-4		HAMILTON	42	1
FED. ROAD DIST. NO. 7		ILLINOIS	CONTRACT NO. 78081		

INDEX OF SHEETS

IDOT HIGHWAY STANDARDS

000001-05	701001-02
001001-02	701011-02
001006	701201-03
280001-05	701301-03
420001-07	701311-03
421001-02	701321-10
482006-03	701326-03
515001-03	701901-01
630001-08	704001-06
630201-06	720001-01
630301-05	720006-02
631011-06	780001-02
635006-03	B.L.R. 21-8
635011-02	

HIGHWAY CLASSIFICATION / TRAFFIC DATA

F.A.P. RTE. 776 (IL. RTE. 242)
FUNCTIONAL CLASS: MINOR ARTERIAL (NON-URBAN)
DESIGN SPEED: 55 MPH
POSTED SPEED: 55 MPH
ADT: 1260 (2008), 1540 (2028)
DHV: 125 (2008), 155 (2028)
14.6% TRUCKS

TOWNSHIP : CROUCH

0 10' 20' 30' 100' 200' 300' — 1"= 100' (ALIGNMENTS)
— 1"= 10' (INTERSECTION DETAILS)

0 5' 10' — 1"= 5' (PLAN & PROFILE – VERTICAL)
(CROSS SECTIONS – HORIZONTAL & VERTICAL)

0 50' 100' — 1"= 30' (MAINTENANCE OF TRAFFIC SHEETS)
(PAVEMENT MARKING AND SIGNING PLANS)

0 50' 100' — 1"= 20' (PLAN & PROFILE – HORIZONTAL)
(STORM WATER POLLUTION PREVENTION PLANS)

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"

PROJECT MANAGER: DAVID PICHE, P.E. (618) 351-5227

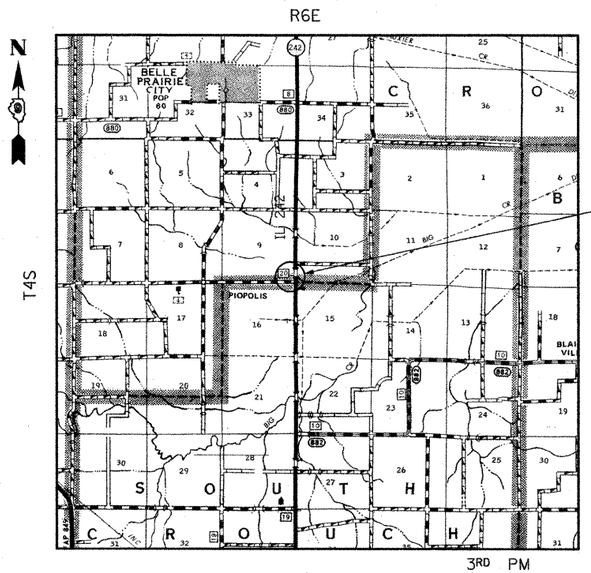
CONTRACT NO. 78081

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED FEDERAL AID HIGHWAY BRIDGE PROGRAM

SECTION 102B-4
F.A.P. ROUTE 776 (IL. ROUTE 242)

PROJECT NO. ACBRF-0776(027)
HAMILTON COUNTY
JOB NO. C-99-068-08
STRUCTURE REPLACEMENT OVER UNNAMED STREAM
5.0 MILES SOUTH OF WAYNE COUNTY LINE



PROP. S.N. 033-2010
15' X 8' DOUBLE BOX CULVERT CARRYING
F.A.P. 776 OVER UNNAMED STREAM
STA. 659+11.74, 15° SKEW LT. FWD.
ROADWAY IMPROVEMENTS, IL 242
STA. 656+27.00 TO STA. 662+30.52

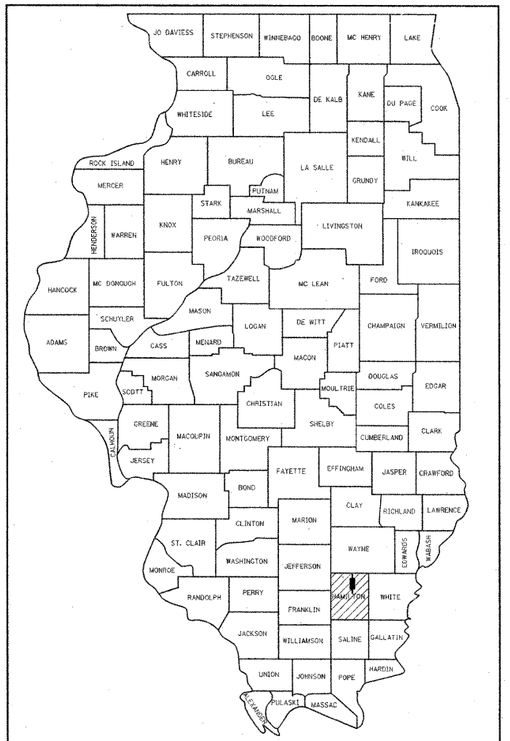
LOCATION MAP

0 5000' 10000' — 1"= 5000'

GROSS LENGTH OF PROJECT = 603.52 FT. (0.114 MILES)

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

D-99-050-08



LOCATION OF SECTION INDICATED THUS:- —■—

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED June 17 20 10
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

August 13 20 10
Scott E. Stitt P.E. /a.
acting ENGINEER OF DESIGN AND ENVIRONMENT

August 13 20 10
Christine M. Reed /a.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

SIGNATURE: Brian M. Bond
DATE SIGNED: 5/24/10
LICENSE EXPIRATION DATE: 11/30/11

LICENSED PROFESSIONAL ENGINEER
BRIAN M. BOND
062-060321
STATE OF ILLINOIS
SEAL

CMT
CRAWFORD, MURPHY & TILLY, INC.
CONSULTING ENGINEERS
License No. 184-000613

MIXTURE REQUIREMENTS

LOCATION(S):	HOT-MIX ASPHALT SURFACE COURSE and Level BINDER
MIXTURE USE(S):	HOT-MIX ASPHALT SURFACE COURSE, MIX C, N90
AC/PG:	PG64-22
RAP % (MAX.):	10
DESIGN AIR VOIDS:	4.0%, 90 GYRATION DESIGN
MIXTURE COMPOSTION: (GRADATION MIXTURE)	IL-9.5 mm OR IL 12.5 mm
FRICTION AGGREGATE	C SURFACE

LOCATION(S):	HOT-MIX ASPHALT - - - BASE COURSE WIDENING - MAINLINE
MIXTURE USE(S):	HOT-MIX ASPHALT BINDER COURSE, N90, IL-19.0
AC/PG:	PG64-22
RAP % (MAX.):	10
DESIGN AIR VOIDS:	4.0%, 90 GYRATION DESIGN
MIXTURE COMPOSTION: (GRADATION MIXTURE)	IL-19.0 mm
FRICTION AGGREGATE	NONE

LOCATION(S):	HOT-MIX ASPHALT SHOULDERS
MIXTURE USE(S):	HOT-MIX ASPHALT SHOULDERS
AC/PG:	PG58-22
RAP % (MAX.):	50
DESIGN AIR VOIDS:	2.0%, 30 GYRATION DESIGN
MIXTURE COMPOSTION: (GRADATION MIXTURE)	HMA SHOULDERS
FRICTION AGGREGATE	NONE

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATION. THE J.U.L.I.E. NUMBER IS 1-800-892-0123. (811 DIRECT NUMBER)

2. THE LOCATION OF BURIED AND ABOVE GROUND UTILITIES SHOWN IS FOR THE CONTRACTOR'S INFORMATION ONLY AND IS NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR OR SUBCONTRACTOR TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE HIS CONSTRUCTION ACTIVITIES WITH THE VARIOUS UTILITY OWNERS. ALL POTENTIAL CONFLICTS SHALL BE INVESTIGATED AND REMEDIAL ACTION TAKEN PRIOR TO INTERRUPTION OF THE CONTRACTOR'S PROGRESS.

3. ALL UTILITY FACILITIES THAT REQUIRE RELOCATION WITHIN STATE R.O.W. SHALL BE COMPLETED BY THE UTILITY COMPANY UNLESS OTHERWISE SHOWN ON THE PLANS.

4. ALL STATION AND OFFSET REFERENCES ARE TO THE ROADWAY CENTERLINE UNLESS OTHERWISE NOTED. THE STATE PLANE COORDINATE SYSTEM HAS BEEN USED FOR THE HORIZONTAL CONTROL.

5. ALL ELEVATIONS SHOWN ON THE PLANS ARE BASED ON U.S.G.S. MEAN SEA LEVEL DATUM.

6. ANY REFERENCE WITHIN THESE PLANS TO A STANDARD SHALL BE INTERPRETED TO MEAN THE EDITION INDICATED BY THE SUB-NUMBER LISTED ON THIS SHEET OR THE COPY INCLUDED IN THESE PLANS.

7. PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION DUE TO A CHANGE IN THE SCOPE OF WORK. THE CONTRACTOR, HOWEVER, WILL BE PAID FOR THE ACTUAL QUANTITY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

8. STRUCTURES WITHIN PROJECT LIMITS

STRUCTURE NO.	OPERATING RATING	INVENTORY RATING	POSTING
S.N. 033-0028 (EXISTING STRUCTURE TO BE REMOVED AND REPLACED AS S.N. 033-2010)	HS 37.6	HS 22.6	N/A

9. THE THICKNESS OF HOT MIX ASPHALT MIXTURE 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 HOT MIX ASPHALT MIXTURE IS PLACED.

10. WHEN CONSTRUCTING HMA BASE COURSE, THE CONTRACTOR SHALL TRIM EXISTING SURFACE AND BASE TO A FIRM, NEAR VERTICAL PLANE BEFORE CONSTRUCTING THE HMA BASE COURSE. THE COST OF THIS REQUIREMENT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEM BEING CONSTRUCTED.

11. WHERE PROPOSED CONSTRUCTION ABUTS EXISTING APPURTENANCES, A SAW CUT SHALL BE MADE TO ACHIEVE A NEAT BUTT JOINT. SAW CUT SHALL BE CONSIDERED INCLUDED IN ITEM BEING CONSTRUCTED.

12. RECLAIMED ASPHALT PAVEMENT (RAP) WILL NOT BE ALLOWED FOR USE AS AGGREGATE IN AGGREGATE SHOULDERS, TYPE B

13. FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

ALL HOT MIX ASPHALT	2.016 TONS/CU.YD. (112 LBS/SQ.YD.-IN)
ALL AGGREGATE	2.05 TONS/CU.YD.
BITUMINOUS MATERIALS:	
ON PAVEMENT	0.09 GAL./SQ.YD.
INTERMEDIATE LIFTS (FOG COAT)	0.04 GAL./SQ.YD.
ON AGGREGATE SURFACE	0.32 GAL./SQ.YD.
AGGREGATE (PRIME COAT)	0.0015 TONS/SQ.YD.
RIPRAP	1.50 TONS/CU.YD.

GENERAL NOTES (CONTINUED)

14. THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION EACH FOR THE PRIME COAT AND SURFACE COURSE.

15. PRIOR TO PLACEMENT OF THE FINAL PAVEMENT MARKINGS THE RESIDENT ENGINEER SHOULD CONTACT THE BUREAU OF OPERATIONS AND ARRANGE FOR INSPECTION AND APPROVAL OF THE PAVEMENT MARKING LAYOUT.

16. UNDER IDOT HIGHWAY STANDARD 701321, THE ADVANCED DETECTOR LOOPS ARE TYPICALLY LOCATED 275 FEET IN ADVANCE OF THE STOP BAR. THE BUREAU OF OPERATIONS SHALL APPROVE THE LOOP LOCATIONS PRIOR TO INSTALLATION.

17. UNDER IDOT HIGHWAY STANDARD 701321, THE CENTERLINE PAVEMENT MARKING SHOULD BE REMOVED FROM THE STOP BAR TO THE IMPACT ATTENUATORS OR DRUMS. EDGE LINE PAVEMENT MARKING SHOULD BE REMOVED IF A 10 FOOT LANE WIDTH CANNOT BE MAINTAINED. TEMPORARY EDGE LINES SHOULD BE INSTALLED WHEN THE EDGE LINES ARE REMOVED.

18. UNDER IDOT HIGHWAY STANDARD 701321, ANY TIME THE CONCRETE BARRIER IS NOT IN THE PROPER POSITION, FLAGGERS SHALL BE IN PLACE TO CONTROL TRAFFIC AND THE TEMPORARY TRAFFIC SIGNALS SHALL BE TURNED OFF OR COVERED.

19. SEEDING SHALL BE DONE ON ALL AREAS THAT ARE DISTURBED BY CONSTRUCTION OPERATIONS AS DIRECTED BY THE ENGINEER. SEEDING SHALL BE PAID FOR ONLY WITHIN THE PROPOSED RIGHT-OF-WAY OR EASEMENT LIMITS. ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE SEEDED, AS DIRECTED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.

20. THE CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH THE PROVISIONS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORM WATER PERMIT AND IMPLEMENT THE EROSION CONTROL PLAN INCLUDED IN THESE PLANS AND SPECIFIED HEREIN. AS SPECIFIED IN ARTICLE 107.23, THE ENGINEER MUST GIVE PRIOR APPROVAL BEFORE DISTURBANCE OF ANY AREA CAN BEGIN.

21. VERTICAL PANELS SHOWN ON STANDARD 701321 WILL NOT BE REQUIRED ON THE STAGE II NEW BRIDGE PARAPET. THE BARRIER WALL REFLECTORS SHALL BE INSTALLED PRIOR TO OPENING TO TRAFFIC.

22. ALL OBSTRUCTIONS WHICH ARE WITHIN THE CLEARZONE SHOWN ON THE TYPICAL SECTION, AND ARE NOT SHIELDED BY THE PROPOSED GUARDRAIL, SHALL BE REMOVED BETWEEN STATION 655+27.00 AND STATION 663+30.52. TYPICAL OBSTRUCTIONS ARE HEADWALLS, FOUNDATIONS, ETC. WHICH PROJECT 100mm (4 IN.) OR GREATER.

23. COMMITMENTS:
NONE IDENTIFIED AS OF 5/2010.

Prepared By: _____
DISTRICT STUDIES & PLANS ENGINEER

Examined By: _____
DISTRICT LAND ACQUISITION ENGINEER

Examined By: _____
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: _____
DISTRICT OPERATIONS ENGINEER

Examined By: _____
DISTRICT CONSTRUCTION ENGINEER

Examined By: _____
DISTRICT MATERIALS ENGINEER

Examined By: _____
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By: _____
ASSISTANT REGIONAL ENGINEER

Approved By: _____
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

June 10 2010
DATE

FILE NAME = ...\D978081-sht-gennotes.dgn	USER NAME = OpenH&B Springfield	DESIGNED - BMB	REVISED -
		DRAWN - RAH	REVISED -
	PLOT SCALE = 20.0000 ' / IN.	CHECKED - JMM	REVISED -
	PLOT DATE = 5/21/2010	DATE - APRIL 2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES AND MIXTURE REQUIREMENTS
F.A.P. ROUTE 776 (IL. RTE. 242)

SCALE: N/A | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-4	HAMILTON	42	2
		CONTRACT NO. 78081		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODE NO.	ITEM DESCRIPTION	UNIT	HAMILTON COUNTY RURAL FUNDING: HBP 80% FEDERAL 20% STATE CONSTRUCTION TYPE CODE X028-2A TOTAL QUANTITY
20200100	EARTH EXCAVATION	CU YD	355
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	176
20300100	CHANNEL EXCAVATION	CU YD	1,912
20400800	FURNISHED EXCAVATION	CU YD	246
20700220	POROUS GRANULAR EMBANKMENT	CU YD	642
20800150	TRENCH BACKFILL	CU YD	36
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	235
25000200	SEEDING, CLASS 2	ACRE	1.25
25000350	SEEDING, CLASS 7	ACRE	1.25
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	225.0
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	112.5
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	112.5
25000700	AGRICULTURAL GROUND LIMESTONE	TON	2.5
25100115	MULCH, METHOD 2	ACRE	2.50
25100630	EROSION CONTROL BLANKET	SQ YD	136
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	500
28000305	TEMPORARY DITCH CHECKS	FOOT	48
28000400	PERIMETER EROSION BARRIER	FOOT	827
28100107	STONE RIPRAP, CLASS A4	SQ YD	100
28100109	STONE RIPRAP, CLASS A5	SQ YD	750
28100201	STONE RIPRAP, CLASS A1	TON	103
28200200	FILTER FABRIC	SQ YD	850
31101810	SUB-BASE GRANULAR MATERIAL, TYPE B 12"	SQ YD	673
35600716	HOT-MIX ASPHALT BASE COURSE WIDENING, 10"	SQ YD	148
40200500	AGGREGATE SURFACE COURSE, TYPE A 6"	SQ YD	244

CODE NO.	ITEM DESCRIPTION	UNIT	HAMILTON COUNTY RURAL 80% FEDERAL 20% STATE CONSTRUCTION TYPE CODE X028-2A TOTAL QUANTITY
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	581
40600300	AGGREGATE (PRIME COAT)	TON	4
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	174
40600990	TEMPORARY RAMP	SQ YD	58
40603320	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N90	TON	176
40600645	LEVELING BINDER (MACHINE METHOD), N90	TON	106
42001300	PROTECTIVE COAT	SQ YD	242
42100300	CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT 10"	SQ YD	242
42100615	PAVEMENT REINFORCEMENT	SQ YD	242
44000100	PAVEMENT REMOVAL	SQ YD	534
48101200	AGGREGATE SHOULDERS, TYPE B	TON	75
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	552
48203037	HOT-MIX ASPHALT SHOULDERS, 10"	SQ YD	265
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50104400	CONCRETE HEADWALL REMOVAL	EACH	5
50105220	PIPE CULVERT REMOVAL	FOOT	61
50200100	STRUCTURE EXCAVATION	CU YD	312
50800105	REINFORCEMENT BARS	POUND	50,280
50800515	BAR SPLICERS	EACH	169
Z0026407	TEMPORARY SHEET PILING	SQ FT	950
51500100	NAME PLATES	EACH	1
54003000	CONCRETE BOX CULVERTS	CU YD	243.9
* 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	587.5
* 63000025	STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES	FOOT	75
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4

* SPECIALTY ITEMS

FILE NAME = ...\sheets\D978081-sht-SQQ-001.dgn	USER NAME = OpenH&B Springfield	DESIGNED - BMB	REVISED -
		DRAWN - RAH	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED - JMM	REVISED -
	PLOT DATE = 5/21/2010	DATE - APRIL 2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
F.A.P. ROUTE 776 (IL. RTE. 242)

SCALE: N/A | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-4	HAMILTON	42	3

CONTRACT NO. 78081

FED. ROAD DIST. NO. 7 | ILLINOIS | FED. AID PROJECT

SUMMARY OF QUANTITIES

	CODE NO.	ITEM DESCRIPTION	UNIT	HAMILTON COUNTY RURAL 80% FEDERAL 20% STATE CONSTRUCTION TYPE CODE X028-2A TOTAL QUANTITY
	63200310	GUARDRAIL REMOVAL	FOOT	369
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8
	67100100	MOBILIZATION	L SUM	1
	70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1
	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1
	70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1
	70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	4
	70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1
	70106800	CHANGEABLE MESSAGE SIGN	CAL MO	1
	70300100	SHORT-TERM PAVEMENT MARKING	FOOT	188
	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1,992
	70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	23
	70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	773
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	330
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	330
	70500100	TEMPORARY STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	50
*	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1,992
*	78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	23
*	78200405	GUARDRAIL MARKERS	EACH	15
*	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	6
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	284
*	86200300	UNINTERRUPTIBLE POWER SUPPLY, EXTENDED	EACH	1
	50102400	CONCRETE REMOVAL	CU YD	
*	X6330103	REMOVE AND RE-ERECT TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL, TANGENT	EACH	1
	X7050167	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)	EACH	1
	Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2
	Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2

* SPECIALTY ITEMS

FILE NAME = ...\sheets\D978081-sht-S00-002.dgn

USER NAME = OpenH&B Springfield
PLOT SCALE = 50.0000 ' / IN.
PLOT DATE = 5/21/2010

DESIGNED - BMB
DRAWN - RAH
CHECKED - JMM
DATE - APRIL 2010

REVISED -
REVISED -
REVISED -
REVISED -

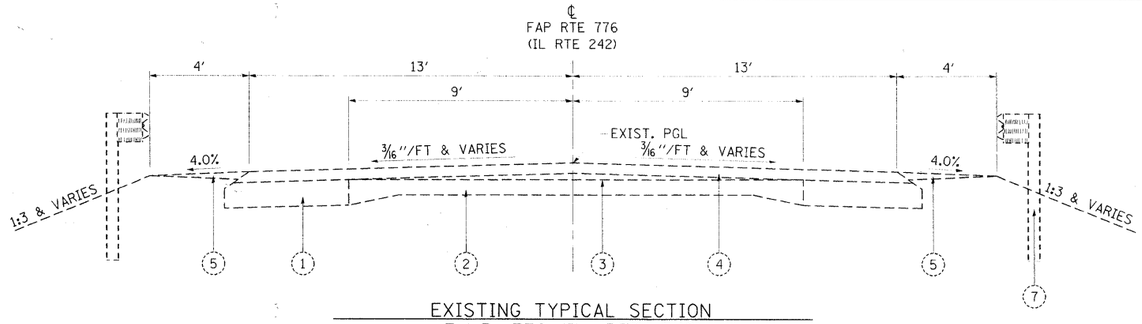
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
F.A.P. ROUTE 776 (IL. RTE. 242)

SCALE: N/A | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-4	HAMILTON	42	4
		CONTRACT NO. 78081		

FED. ROAD DIST. NO. 7 | ILLINOIS | FED. AID PROJECT



EXISTING TYPICAL SECTION
F.A.P. 776 (IL. RTE. 242)
STA. 656+27.00 TO 662+30.52
(LOOKING SOUTH)

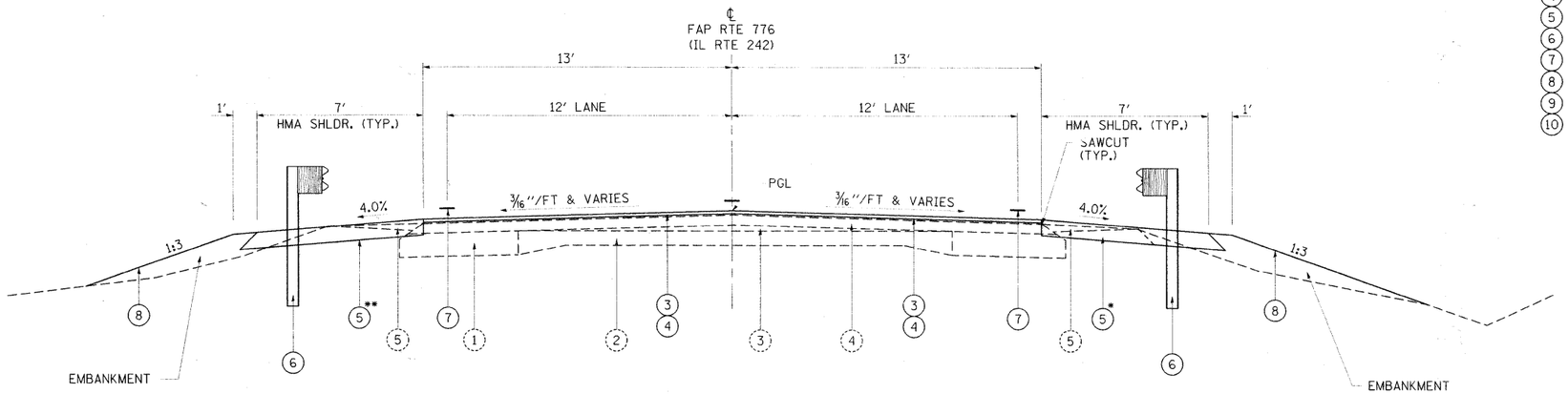
EXISTING LEGEND

1. EXISTING BITUMINOUS CONCRETE BASE COURSE
2. EXISTING CONCRETE PAVEMENT
3. EXISTING BITUMINOUS LEVELING BINDER
4. EXISTING BITUMINOUS CONCRETE OVERLAYS, 5"±
5. EXISTING AGGREGATE SHOULDERS
6. EXISTING OIL & CHIP SURFACE ON AGGREGATE BASE
7. EXISTING GUARDRAIL

PROPOSED LEGEND

1. PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B, 12"
2. PROPOSED CONTINUOUSLY REINFORCED P.C.C. PAVEMENT, 10"
3. PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N90, (1-1/2")
4. PROPOSED LEVELING BINDER (MACHINE METHOD), N90, (3/4")
5. PROPOSED HOT-MIX ASPHALT SHOULDER, 8"/10"
6. PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A
7. PROPOSED PAVEMENT MARKING (SEE MARKING PLANS)
8. PROPOSED SEEDING CLASS 2 WITH MULCH METHOD 2
9. PROPOSED STONE RIPRAP, CLASS A5
10. PROPOSED AGGREGATE SHOULDER, TYPE B, 6"

NOTE: SEE SHEET 2 FOR MIXTURE REQUIREMENTS

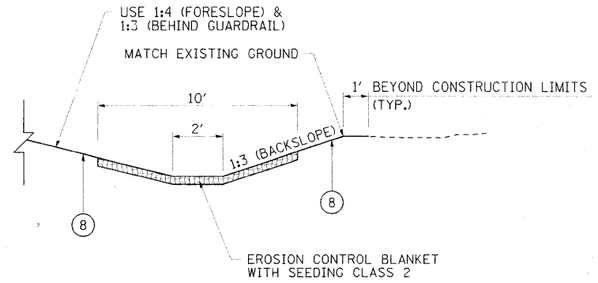


PROPOSED RESURFACING TYPICAL SECTION - OVERLAY
F.A.P. 776 (IL. RTE. 242)

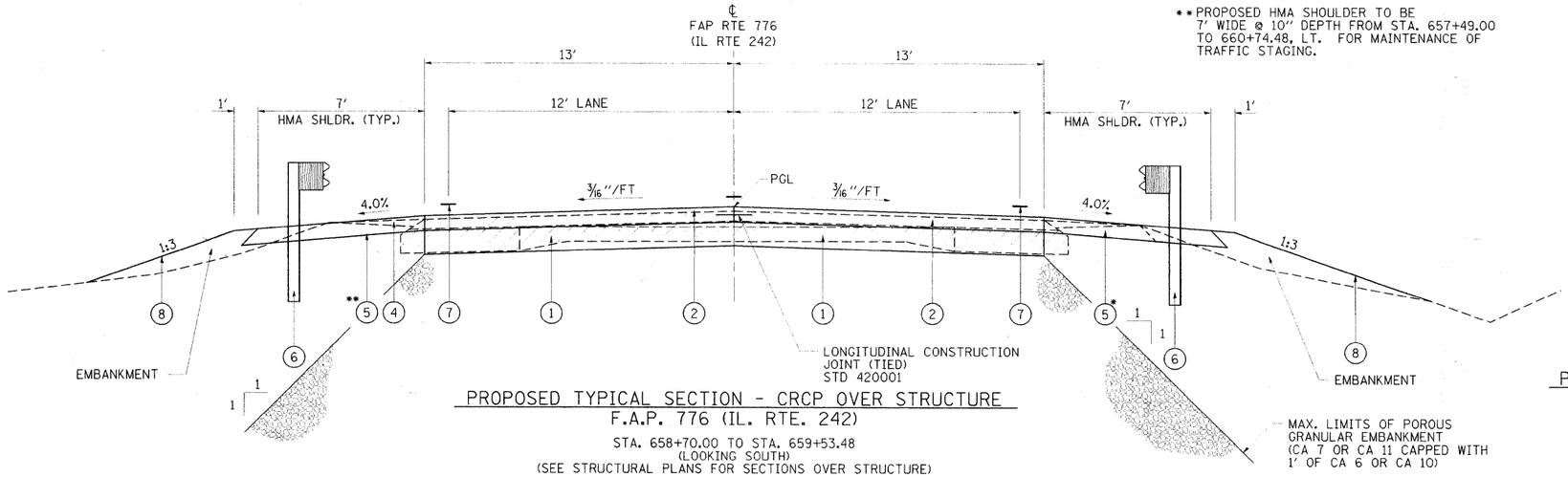
STA. 656+27.00 TO STA. 658+70.00
STA. 659+53.48 TO STA. 662+30.52
(LOOKING SOUTH)

* PROPOSED HMA SHOULDER TO BE CONSTRUCTED AS BASE COURSE WIDENING, 10" 4.5' WIDE FROM FROM STA. 657+49.00 TO STA. 660+74.48, RT TO BE INCORPORATED INTO FINAL SHOULDER.

** PROPOSED HMA SHOULDER TO BE 7' WIDE @ 10" DEPTH FROM STA. 657+49.00 TO 660+74.48, LT. FOR MAINTENANCE OF TRAFFIC STAGING.

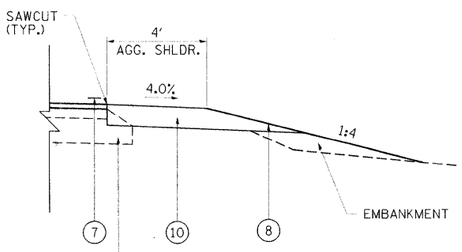


TYPICAL DITCH SECTION
SEE CROSS SECTIONS FOR LOCATIONS & ELEVATIONS



PROPOSED TYPICAL SECTION - CRCP OVER STRUCTURE
F.A.P. 776 (IL. RTE. 242)

STA. 658+70.00 TO STA. 659+53.48
(LOOKING SOUTH)
(SEE STRUCTURAL PLANS FOR SECTIONS OVER STRUCTURE)



PROPOSED TYPICAL SHOULDER SECTION - WITHOUT GUARDRAIL
F.A.P. 776 (IL. RTE. 242)

STA. 660+74.48, RT. TO STA. 662+60.52, RT.

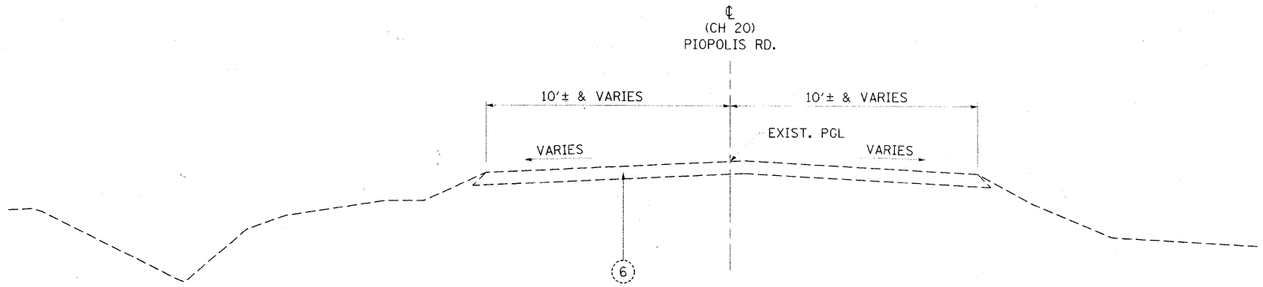
FILE NAME = ...\0478081-sht-typicsl001.dgn	USER NAME = Rob Heady	DESIGNED - BMB	REVISED
		DRAWN - RAH	REVISED
	PLOT SCALE = 3.0000 '/ IN.	CHECKED - JMM	REVISED
	PLOT DATE = 5/21/2010	DATE - APRIL 2010	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

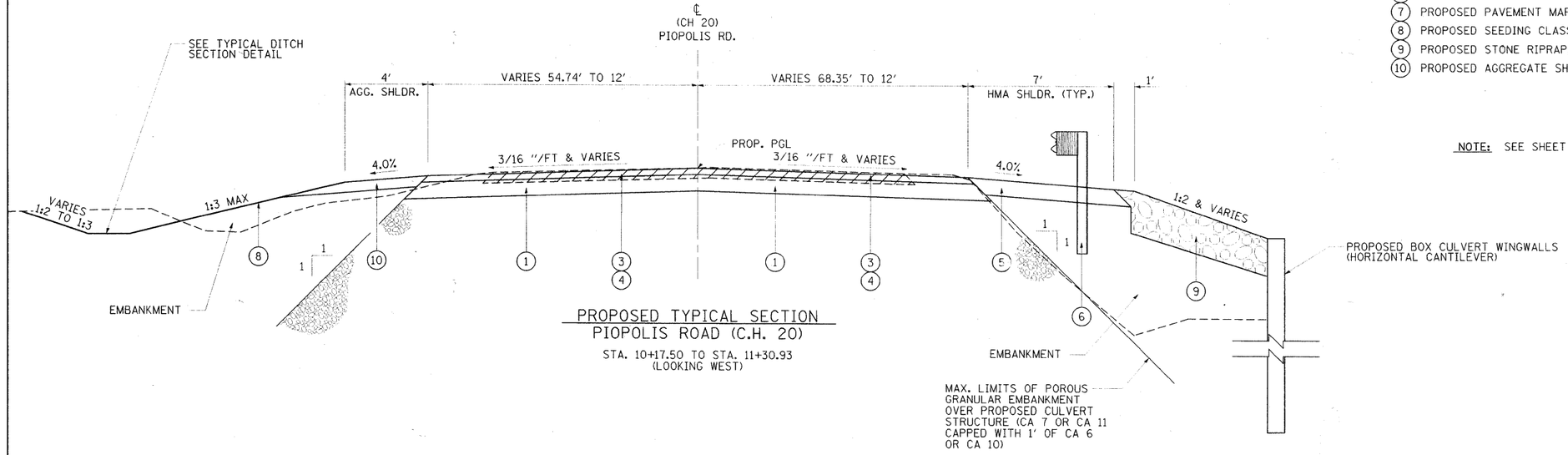
TYPICAL SECTION
F.A.P. ROUTE 776 (IL. RTE. 242)

SCALE: N/A | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-4	HAMILTON	42	5
		CONTRACT NO. 78081		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



EXISTING TYPICAL SECTION
PIOPOLIS ROAD (C.H. 20)



PROPOSED TYPICAL SECTION
PIOPOLIS ROAD (C.H. 20)

STA. 10+17.50 TO STA. 11+30.93
(LOOKING WEST)

EXISTING LEGEND

1. EXISTING BITUMINOUS CONCRETE BASE COURSE
2. EXISTING CONCRETE PAVEMENT
3. EXISTING BITUMINOUS LEVELING BINDER
4. EXISTING BITUMINOUS CONCRETE OVERLAYS, 5"±
5. EXISTING AGGREGATE SHOULDERS
6. EXISTING OIL & CHIP SURFACE ON AGGREGATE BASE
7. EXISTING GUARDRAIL

PROPOSED LEGEND

1. PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B, 12"
2. PROPOSED CONTINUOUSLY REINFORCED P.C.C. PAVEMENT, 10"
3. PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N90, 3" (1-1/2")
4. PROPOSED LEVELING BINDER (MACHINE METHOD), N90 (1-1/2")
5. PROPOSED HOT-MIX ASPHALT SHOULDER, 8"
6. PROPOSED STEEL PLATE BEAM GUARDRAIL, TYPE A
7. PROPOSED PAVEMENT MARKING (SEE MARKING PLANS)
8. PROPOSED SEEDING CLASS 2 WITH MULCH METHOD 2
9. PROPOSED STONE RIPRAP, CLASS A5
10. PROPOSED AGGREGATE SHOULDER, TYPE B, 6"

NOTE: SEE SHEET 2 FOR MIXTURE REQUIREMENTS

FILE NAME = ...\D978081sht typx.s1000.dgn	USER NAME = Rob Heady	DESIGNED - BMB	REVISED	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
		DRAWN - RAH	REVISED	
	PLOT SCALE = 100.000 / IN.	CHECKED - JMM	REVISED	
	PLOT DATE = 5/21/2010	DATE - APRIL 2010	REVISED	

TYPICAL SECTION PIOPOLIS ROAD (C.H. 20)
F.A.P. ROUTE 776 (IL. RTE. 242)

SCALE: N/A | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-4	HAMILTON	42	6
		CONTRACT NO. 78081		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

EARTHWORK

LOCATION				• EARTH EXCAVATION	FOR INFORMATION ONLY			FURNISHED EXCAVATION	CHANNEL EXCAVATION
					EXCAVATION TO BE USED IN EMBANKMENT (ADJ. FOR SHRINKAGE) 20%	•• EMBANKMENT	EARTHWORK BALANCE EXCESS (+) SHORTAGE (-)		
STATION	TO	STATION		(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
STAGE I									
IL RTE 242									
655+50.00	-	662+60.52	LT	58.0	46.4	138.0	-91.6	0.0	388.0
SUB TOTAL - STAGE I				58.0	46.4	138.0	-91.6	0.0	388.0
STAGE II									
IL RTE 242									
655+50.00	-	662+60.52	RT	149.0	119.2	372.0	-252.8	0.0	1524.0
PIOPOLIS RD. (CH 20)									
10+25.00	-	11+30.93		148.0	118.4	316.0	-197.6	246.0	
SUB TOTAL - STAGE II				297.0	237.6	688.0	-450.4	246.0	1524.0
TOTAL				355	284	826	-542	246	1912

• CUT FROM CROSS SECTIONS. ADDITIONAL EARTHWORK REQUIRED TO SATISFY STEP CONSTRUCTION PER DISTRICT DETAIL (STD. 9-16) NOT INCLUDED. COST SHALL BE INCIDENTAL TO EARTH EXCAVATION.

•• FILL FROM CROSS SECTIONS. ADDDITIONAL EMBANKMENT REQUIRED TO SATISFY STEP CONTRUCTION PER DISTRICT DETAIL (STD. 9-16) NOT INCLUDED. COST SHALL BE INCIDENTAL TO EMBANKMENT.

EROSION CONTROL

LOCATION				PERIMETER EROSION BARRIER	EROSION CONTROL BLANKET	TEMPORARY DITCH CHECKS	STONE RIPRAP, CLASS A4	STONE RIPRAP, CLASS A5
STATION	TO	STATION		(FOOT)	(SQ YD)	(FOOT)	(SQ YD)	(SQ YD)
PRE - STAGE I								
IL RTE 242								
655+49.04	-	662+60.52	RT	218				
SUB TOTAL - STAGE I				218	0	0	0	0
STAGE I								
IL RTE 242								
655+97.00	-	662+60.52	LT					215
SUB TOTAL - STAGE I				0	0	0	0	215
STAGE II								
IL RTE 242								
655+97.00	-	662+60.52	LT	609				
655+49.04	-	662+60.52	RT			24		535.0
PIOPOLIS RD. (CH20)								
10+25.00	-	11+30.93	LT		17	12	100.0	
10+25.00	-	11+43.22	RT		25	12		
SUB TOTAL - STAGE II				609	42	48	100	535
POST STAGE II								
IL RTE 242								
655+49.04	-	662+60.52	RT		94			
SUB TOTAL - POST STAGE II				0	94	0	0	0
TOTAL				827	136	48	100	750

FILE NAME = ...\D978081-sht-schedule-001.dgn	USER NAME = Rob Heady	DESIGNED - MJO	REVISED -
		DRAWN - RAH	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED - JMM	REVISED -
	PLOT DATE = 5/21/2010	DATE - APRIL 2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
F.A.P. ROUTE 776 (IL. RTE. 242)

SCALE: N/A | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-4	HAMILTON	42	7
		CONTRACT NO. 78081		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

PAVEMENT AND SHOULDERS

LOCATION				SUB-BASE GRANULAR MATERIAL, TYPE B, 12"	HMA BASE COURSE WIDENING, 10"	HMA SURFACE COURSE, MIX "C", N90	LEVELING BINDER (MACHINE METHOD), N90	C.R.P.C.C. PAVEMENT 10"	PAVEMENT REINFORCEMENT 10"	HMA SHOULDER, 8"	HMA SHOULDER, 10"	AGGREGATE SHOULDERS, TYPE B	BITUMINOUS MATERAILS (PRIME COAT)	AGGREGATE (PRIME COAT)	HMA SURFACE REMOVAL - BUTT JOINT	PAVEMENT REMOVAL
STATION	TO	STATION		(SQ YD)	(SQ YD)	(TON)	(TON)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	(TON)	(GALLON)	(TON)	(SQ YD)	(SQ YD)
PRE - STAGE I																
IL RTE 242																
655+49.04	-	662+60.52	RT		148											
SUB TOTAL - STAGE I				0	148	0	0	0	0	0	0	0	0	0	0	0
STAGE I																
IL RTE 242																
655+97.00	-	662+60.52	LT	116				101	101		265					111
SUB TOTAL - STAGE I				116	0	0	0	101	101	0	265	0	0	0	0	111
STAGE II																
IL RTE 242																
655+49.04	-	662+60.52	LT							179		17				
655+49.04	-	662+60.52	RT	135				141	141	279		34				158
PIOPOLIS RD. (CH20)																
10+17.51	-	11+43.22		422		35	35			94		24	245			265
SUB TOTAL - STAGE II				557	0	35	35	141	141	552	0	75	245	0	0	423
POST STAGE II																
IL RTE 242																
655+97.00	-	662+60.52				141	71						336	4	174	
SUB TOTAL - POST STAGE II				0	0	141	71	0	0	0	0	0	336	4	174	0
TOTAL				673	148	176	106	242	242	552	265	75	581	4	174	534

SEEDING

STATION / LOCATION				SEEDING, CLASS 2	SEEDING, CLASS 7	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURAL GROUND LIMESTONE	MULCH, METHOD 2	TEMPORARY EROSION CONTROL SEEDING
STATION	TO	STATION		(ACRE)	(ACRE)	(POUND)	(POUND)	(POUND)	(TON)	(ACRE)	(POUND)
STAGE II											
PIOPOLIS RD. (CH 20)											
10+25.00	-	11+43.22	LT	0.15	0.15	27.0	13.5	13.5	0.3	0.30	60
10+25.00	-	11+43.22	RT	0.10	0.10	18.0	9.0	9.0	0.2	0.20	40
SUB TOTAL - STAGE II				0.25	0.25	45.0	22.5	22.5	0.5	0.50	100
POST STAGE II											
IL RTE 242											
655+97.00	-	662+60.52	LT	0.50	0.50	90.0	45.0	45.0	1.0	1.00	200
655+49.04	-	662+60.52	RT	0.50	0.50	90.0	45.0	45.0	1.0	1.00	200
SUB TOTAL - POST STAGE II				1.00	1.00	180.0	90.0	90.0	2.0	2.00	400
TOTALS				1.25	1.25	225.0	112.5	112.5	2.5	2.50	500

FILE NAME = ...\D1478081-sht-schedule-001.dgn	USER NAME = Rob Heady	DESIGNED - MJO	REVISED
		DRAWN - RAH	REVISED
	PLOT SCALE = 50.0000 ' / IN.	CHECKED - JMM	REVISED
	PLOT DATE = 5/21/2010	DATE - APRIL 2010	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
F.A.P. ROUTE 776 (IL. RTE. 242)

SCALE: N/A | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-4	HAMILTON	42	8
		CONTRACT NO. 78081		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

GUARDRAIL

LOCATION				STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURE	TEMPORARY STEEL PLATE BEAM GUARD RAIL, TYPE A	TRAFFIC BARRIER TERMINAL, TYPE 2	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	REMOVE AND RE-ERECT TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	GUARDRAIL MARKERS	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REMOVAL
STATION	TO	STATION		(FOOT)	(FOOT)	(FOOT)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(EACH)	(FOOT)
PRE - STAGE I													
IL RTE 242													
657+03.40	-	662+26.50	LT										
656+00.30	-	659+00.30	RT						1				
PIOPOLIS RD. (CH 20)													
10+18.00	-	11+08.90	RT			50.0							63
SUB TOTAL - STAGE I				0.0	0.0	50.0	0	0	1	0	2	0	63
STAGE I													
IL RTE 242													
657+03.40	-	662+26.50	LT	262.5	37.5			4			8	4	154
656+00.30	-	659+00.30	RT										
PIOPOLIS RD. (CH 20)													
10+18.00	-	11+08.90	RT										
SUB TOTAL - STAGE I				262.5	37.5	0.0	0	4	0	0	8	4	154
STAGE II													
IL RTE 242													
657+03.40	-	662+26.50	LT										
656+00.30	-	659+00.30	RT	237.5	10.6					1	3	1	102
PIOPOLIS RD. (CH 20)													
10+18.00	-	11+08.90	RT	87.5	26.9		1				2	1	50
SUB TOTAL - STAGE II				325.0	37.5	0.0	1	0	0	1	5	2	152
POST STAGE II													
IL RTE 242													
657+03.40	-	662+26.50	LT										
656+00.30	-	659+00.30	RT										
PIOPOLIS RD. (CH 20)													
10+18.00	-	11+08.90	RT										
SUB TOTAL - POST STAGE II				0.0	0.0	0.0	0	0	0	0	0	0	0
TOTAL				587.5	75.0	50.0	1	4	1	1	15	6	369

*NOTE: STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES TO BE INSTALLED FROM
STA. 658+97.19 TO STA. 659+34.69, LT. AND
STA. 658+87.81 TO STA. 658+98.40, RT. ALONG IL. RTE. 242
STA. 10+14.21 TO STA. 10+27.16, RT. ALONG PIOPOLIS RD.

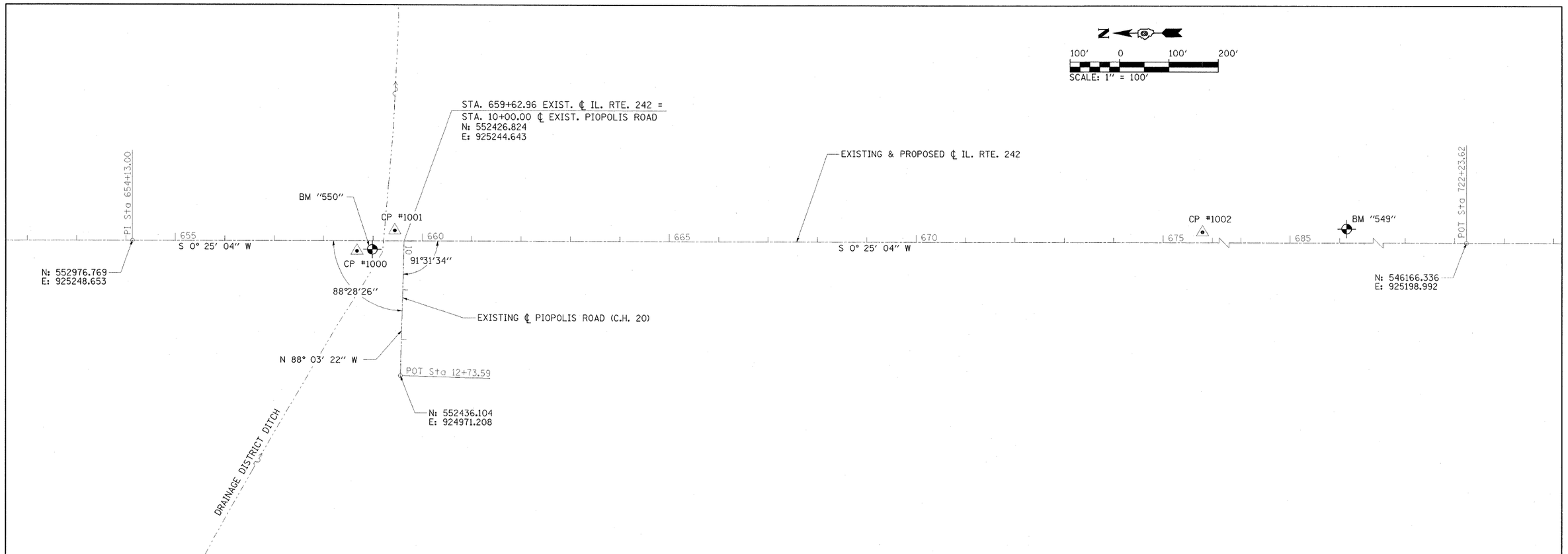
FILE NAME = ...\D978081-sht-schedule-001.dgn	USER NAME = Rob Heady	DESIGNED - MJO	REVISED -
		DRAWN - RAH	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED - JMM	REVISED -
	PLOT DATE = 5/21/2010	DATE - APRIL 2010	REVISED -

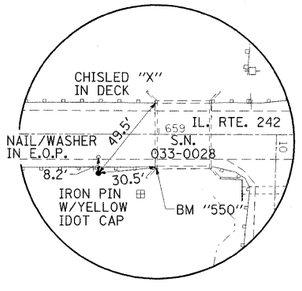
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
F.A.P. ROUTE 776 (IL. RTE. 242)

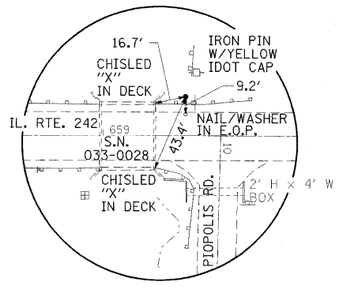
SCALE: N/A | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-4	HAMILTON	42	9
		CONTRACT NO. 78081		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

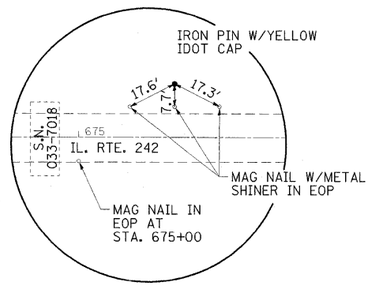




IDOT HORIZONTAL CONTROL POINT – 1000
STATION 658+67.58, 20.90′ RT.
N: 552522.354
E: 925224.435



IDOT HORIZONTAL CONTROL POINT – 1001
STATION 659+44.11, 21.41′ LT.
N: 552445.521
E: 925266.194



IDOT HORIZONTAL CONTROL POINT – 1002
STATION 675+68.24, 19.94′ LT.
N: 550821.450
E: 925252.882

BENCHMARKS

BM "549"
STA. 686+13±, 17.4′± LT.
CHISELED "□" ON NE WINGWALL OF BOX CULVERT
ELEV. = 388.56

BM "550"
STA. 658+82±, 18.0′± RT.
CHISELED "□" ON NW WINGWALL OF BRIDGE
STRUCTURE 033-0028 AT PIOPOLIS RD.
ELEV. = 387.37

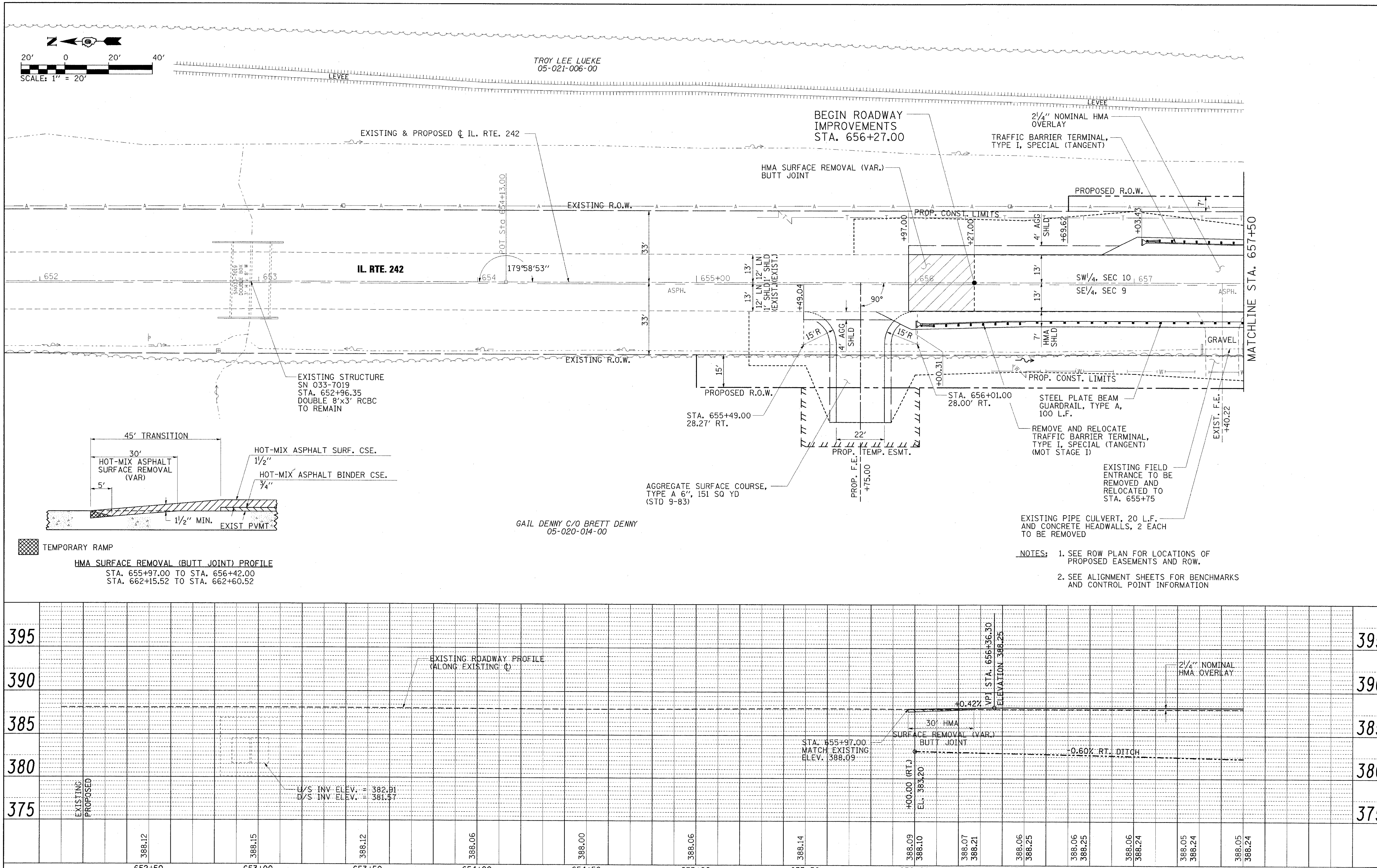
FILE NAME = ...\sheets\D978081-sht-ABT001.dgn	USER NAME = Rob Heady	DESIGNED - MJO	REVISED -
		DRAWN - RAH	REVISED -
	PLOT SCALE = 100.0000 ′ / IN.	CHECKED - JMM	REVISED -
	PLOT DATE = 5/21/2010	DATE - APRIL 2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES AND BENCHMARKS
F.A.P. ROUTE 776 (IL. RTE 242)

SCALE: 1″=100′ | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-4	HAMILTON	42	10
		CONTRACT NO. 78081		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		


SCALE: 1" = 20'
TROY LEE LUEKE
05-021-006-00
LEVEE
BEGIN ROADWAY IMPROVEMENTS STA. 656+27.00
EXISTING & PROPOSED ℄ IL. RTE. 242
2¼" NOMINAL HMA OVERLAY
TRAFFIC BARRIER TERMINAL, TYPE I, SPECIAL (TANGENT)
HMA SURFACE REMOVAL (VAR.) BUTT JOINT
PROPOSED R.O.W.
EXISTING R.O.W.
PROP. CONST. LIMITS
IL. RTE. 242
POT Sta 654+13.00
179°58'53"
SW¼, SEC 10
SE¼, SEC 9
ASPH.
GRAVEL
MATCHLINE STA. 657+50
EXISTING STRUCTURE SN 033-7019 STA. 652+96.35 DOUBLE 8'x3' RCBC TO REMAIN
STA. 655+49.00 28.27' RT.
STA. 656+01.00 28.00' RT.
STEEL PLATE BEAM GUARDRAIL, TYPE A, 100 L.F.
REMOVE AND RELOCATE TRAFFIC BARRIER TERMINAL, TYPE I, SPECIAL (TANGENT) (MOT STAGE I)
EXISTING FIELD ENTRANCE TO BE REMOVED AND RELOCATED TO STA. 655+75
EXISTING PIPE CULVERT, 20 L.F. AND CONCRETE HEADWALLS, 2 EACH TO BE REMOVED
AGGREGATE SURFACE COURSE, TYPE A 6", 151 SQ YD (STD 9-83)
PROP. TEMP. ESMT.
PROP. F.E. +75.00
EXIST. F.E. +40.22
GAIL DENNY C/O BRETT DENNY
05-020-014-00
45' TRANSITION
30' HOT-MIX ASPHALT SURFACE REMOVAL (VAR)
HOT-MIX ASPHALT SURF. CSE. 1½"
HOT-MIX ASPHALT BINDER CSE. ¾"
1½" MIN.
EXIST PVMT
TEMPORARY RAMP
HMA SURFACE REMOVAL (BUTT JOINT) PROFILE
STA. 655+97.00 TO STA. 656+42.00
STA. 662+15.52 TO STA. 662+60.52
NOTES: 1. SEE ROW PLAN FOR LOCATIONS OF PROPOSED EASEMENTS AND ROW.
2. SEE ALIGNMENT SHEETS FOR BENCHMARKS AND CONTROL POINT INFORMATION
EXISTING ROADWAY PROFILE (ALONG EXISTING ℄)
2¼" NOMINAL HMA OVERLAY
VPI STA. 656+36.30 ELEVATION 388.25
+0.42%
30' HMA SURFACE REMOVAL (VAR.) BUTT JOINT
STA. 655+97.00 MATCH EXISTING ELEV. 388.09
-0.60% RT. DITCH
+00.00 (RT.) EL. 383.20
U/S INV ELEV. = 382.91
D/S INV ELEV. = 381.57
EXISTING
PROPOSED
395
390
385
380
375
652+50
653+00
653+50
654+00
654+50
655+00
655+50
656+00
656+50
657+00
657+50

FILE NAME = ...\D97808I-sht-plnprf001.dgn	USER NAME = Rob Heady	DESIGNED - JMM	REVISED -
		DRAWN - GLD	REVISED -
	PLOT SCALE = 20.0000 ' / IN.	CHECKED - JMM	REVISED -
	PLOT DATE = 5/21/2010	DATE - APRIL 2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE IL ROUTE 242
F.A.P. ROUTE 776 (IL. RTE. 242)

SCALE: | SHEET NO. 1 OF 3 SHEETS | STA. 652+00 TO STA. 657+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-2	HAMILTON	42	11

CONTRACT NO. 78081

FED. ROAD DIST. NO. 7 | ILLINOIS | FED. AID PROJECT

STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES 37.5 L.F.

TROY LEE LUEKE
05-021-006-00

LONGITUDINAL CONSTRUCTION JOINT (TIED) SEE MOT PLANS

EXISTING STRUCTURE
SINGLE SPAN REINFORCED CONC. BRIDGE
30'-0" BK. TO BK.
SN 033-0028
STA. 659+13
TO BE REMOVED

LEVEE

DRAINAGE DISTRICT DITCH

PROPOSED R.O.W.

SW¼, SEC 10
NW¼, SEC 15

PROPOSED STRUCTURE SN 033-2010
STA. 659+11.74, DOUBLE 15'x8' RCBC,
15° SKEW LT. FWD.

STEEL PLATE BEAM GUARDRAIL, TYPE A, 150 L.F.

STA. 659+64.05
28.00' LT.

STA. 659+62.96 ℄ IL. RTE. 242=
STA. 10+00.00 ℄ PIOPOLIS ROAD

AGGREGATE SURFACE COURSE, TYPE A 6", 93 SQ YD (STD 9-83)

2¼" NOMINAL HMA OVERLAY

STEEL PLATE BEAM GUARDRAIL, TYPE A, 112.5 L.F.

STA. 660+16.05
28.00' LT.

TERMINAL TYPE 1, SPECIAL TANGENT (TYP.)

TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)

CHARLES A. LUEKE
06-003-002-00

SCALE: 1" = 20'

2¼" NOMINAL HMA OVERLAY

PROPOSED R.O.W.

EXISTING R.O.W.

PROP. CONST. LIMITS

7' HMA SHLD

7' AGG SHLD

4' AGG SHLD

MATCHLINE STA. 657+50

SW¼, SEC 10
SE¼, SEC 9

NW¼, SEC 15
NE¼, SEC 16

IL. RTE. 242

ASPH.

REMOVE EXISTING GUARDRAIL

REMOVE EXISTING RCBC, 32 L.F. & HEADWALLS, 3 EA.
TRENCH BACKFILL, 20.7 CU. YD.

88°28'26"

12' LN 12' LN 1' SHLD 1' SHLD (EXIST.)(EXIST.)

4.5' HMA SHLD (MOT STG 1)

PROPOSED R.O.W.

HMA SURFACE REMOVAL (VAR.) (BUTT JOINT)

EXISTING ℄ IL. RTE. 242

END ROADWAY IMPROVEMENTS
STA. 662+30.52

EXISTING SPLICEBOX TO BE RELOCATED BY OTHERS

EXISTING SPLICE BOX TO BE ADJUSTED/RELOCATED BY OTHERS

STEEL PLATE BEAM GUARDRAIL, TYPE A, 137.5 L.F.

CONTINUOUSLY REINFORCED PCC PAVEMENT, 242 SQ. YD.

STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES 37.5 L.F.

GAIL DENNY C/O BRETT DENNY
05-020-014-00

DRAINAGE DISTRICT DITCH

EXISTING HYDRANT TO BE RELOCATED/ADJUSTED BY OTHERS

3" HMA PAVEMENT ON 12" AGGREGATE BASE COURSE (STD 9-83)

℄ PIOPOLIS ROAD (CH 20)

PROP. CONST. LIMITS

PROP. TEMP. ESMT.

CHARLES A. LUEKE
06-003-004-50

NOTES:
1. SEE ALIGNMENT SHEETS FOR BENCHMARK AND CONTROL POINT INFORMATION.
2. ALL CONCRETE PAVEMENT JOINTS SHALL BE IN ACCORDANCE WITH IDOT HIGHWAY STANDARD 420001.
3. SPACING FOR BAR REINFORCEMENT IN CRPCC PAVEMENT TO BE IN ACCORDANCE WITH IDOT HIGHWAY STANDARD 421001. NUMBER OF LONGITUDINAL BARS TO BE DETERMINED BASED ON THE PAVEMENT WIDTH. THE LUG SYSTEM OR WIDE FLANGE BEAM TERMINAL JOINT IS NOT INCLUDED/REQUIRED.
4. SEE ROW PLAN FOR LOCATIONS OF PROPOSED EASEMENTS AND ROW.

PROFILE

VPI STA. 658+70.00
ELEVATION 388.17

-0.14%

D.H.W. ELEV. (Q_{50}) = 386.24

-0.60% RT. DITCH

VPI STA. 659+50.00
ELEVATION 388.06

PIOPOLIS RD. ℄ STA. 659+62.96

PROPOSED 4'x3' RCBC (SEE STRUCTURAL PLANS)

2¼" NOMINAL HMA OVERLAY

PROPOSED ℄ PROFILE

INV. = 381.10

+1.89% RT. DITCH

INV. = 380.80

+68.65 (RT.) EL. 381.59

+84.30 (RT.) EL. 381.10

+92.00 (RT.) EL. 376.25

+50.00 (RT.) EL. 382.14

MATCH EXISTING RT. DITCH

EXISTING ROADWAY PROFILE (ALONG EXISTING ℄)

PROPOSED CULVERT (S.N. 033-2010)
U/S INV. = 376.00
D/S INV. = 375.50

VPI STA. 662+22.33
ELEVATION 388.07

-0.42%

30" HMA SURFACE REMOVAL (VAR.) BUTT JOINT

STA. 662+60.52
MATCH EXISTING
ELEV. 387.91

	395	390	385	380	375	370
EXISTING	388.05	388.24				
PROPOSED			388.02	388.21		
	388.00	388.19				
	388.00	388.19				
	388.01	388.20				
	387.98	388.16				
	387.96	388.13				
	387.92	388.09				
	387.87	388.06				
	387.83	388.08				
	387.91	388.10				
	387.93	388.12				
	387.95	388.14				
	387.94	388.13				
	387.94	388.13				
	387.90	388.10				
	387.88	388.06				
	387.87	388.06				
	387.87	388.05				
	387.89	388.06				
	387.91	387.96				
	387.94					
	387.90					

657+50 | 658+00 | 658+50 | 659+00 | 659+50 | 660+00 | 660+50 | 661+00 | 661+50 | 662+00 | 662+50 | 663+00 | 663+50

FILE NAME = ...\D978081-sht-plnprf002.dgn	USER NAME = Rob Heady	DESIGNED - JMM	REVISED -
		DRAWN - GLD	REVISED -
	PLOT SCALE = 20.0000 ' / IN.	CHECKED - JMM	REVISED -
	PLOT DATE = 5/21/2010	DATE - APRIL 2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE IL ROUTE 242
F.A.P. ROUTE 776 (IL. RTE. 242)

SCALE: | SHEET NO. 2 OF 3 SHEETS | STA. 657+50 | TO STA. 663+50

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-2	HAMILTON	42	12
		CONTRACT NO. 78081		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

CHARLES A. LUEKE
06-003-002-00

CHARLES A. LUEKE
06-003-004-50

N

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

REMOVE EXISTING RCBC, 32 L.F.
& CONCRETE HEADWALLS, 3 EACH
TRENCH BACKFILL, 20.7 CU. YD.

EXISTING HYDRANT
TO BE RELOCATED/ADJUSTED
BY OTHERS

SEE INTERSECTION
DETAIL FOR GRADES

PROPOSED STRUCTURE
STA. 10+55.00
4'x3' RCBC
(SEE STRUCTURAL PLANS)

3" HMA PAVEMENT ON 12" AGGREGATE
BASE COURSE (STD, 9-83)

END ROADWAY IMPROVEMENTS
STA. 11+30.93 (PIOPOLIS RD.)

STA. 659+62.96 ℄ IL. RTE. 242=
STA. 10+00.00 ℄ PIOPOLIS ROAD

℄ PIOPOLIS ROAD
(C.H. 20)

EXISTING R.O.W.

NW¼, SEC 15
SW¼, SEC 10

NE¼, SEC 16
SE¼, SEC 9

PIOPOLIS RD. (C.H. 20)

EXISTING R.O.W.

LEVEE

DRAINAGE
DISTRICT
DITCH

88°28'26"

TROY LEE LUEKE
05-021-006-00

PROPOSED STRUCTURE
SN 033-2010
STA. 659+11.74
DOUBLE 15'x8' RCBC

STEEL PLATE BEAM
GUARDRAIL, TYPE A,
87.5 L.F.

REMOVE
EXISTING
GUARDRAIL

PROP. R.O.W.

PROP. CONST. LIMITS

LEVEE

DRAINAGE
DISTRICT
DITCH

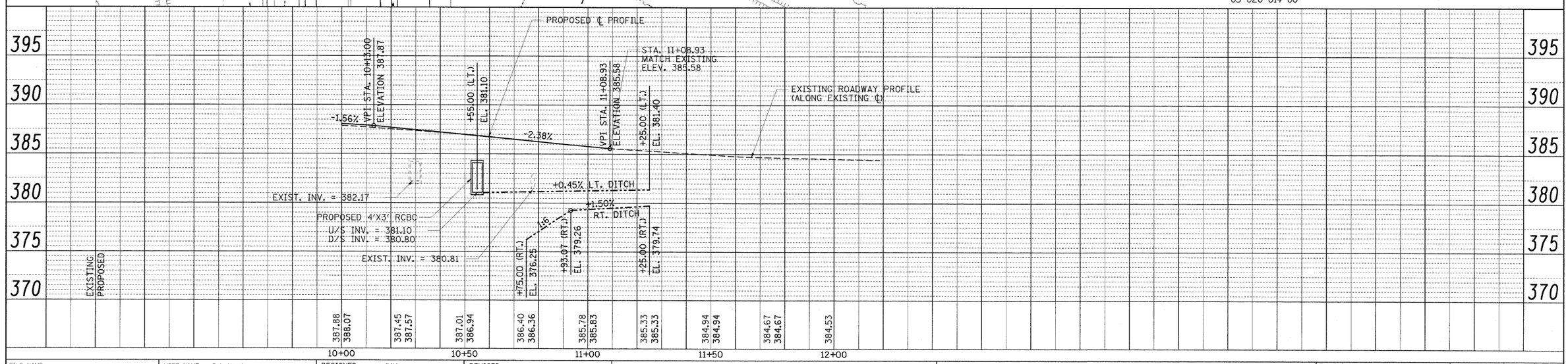
TRAFFIC BARRIER TERMINAL,
TYPE 2

EXISTING PIPE CULVERT TO BE REMOVED, 41 L.F.
TRENCH BACKFILL, 15.1 CU. YD.

NOTES: 1. SEE ALIGNMENT SHEETS FOR BENCHMARK AND CONTROL POINT INFORMATION.

2. SEE ROW PLAN FOR LOCATIONS OF PROPOSED EASEMENTS AND ROW.

GAIL DENNY C/O BRETT DENNY
05-020-014-00



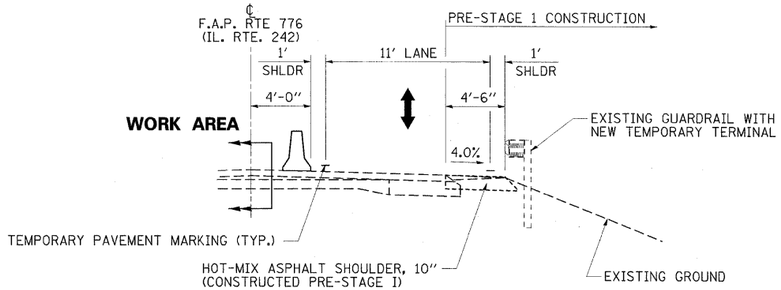
FILE NAME = ...\D978081-sht-plnprf004.dgn	USER NAME = Rob Heady	DESIGNED - JMM	REVISED -
		DRAWN - GLD	REVISED -
	PLOT SCALE = 20.0000 ' / IN.	CHECKED - JMM	REVISED -
	PLOT DATE = 5/21/2010	DATE - APRIL 2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE PIOPOLIS RD. (C.H. 20)
F.A.P. ROUTE 776 (IL. RTE. 242)

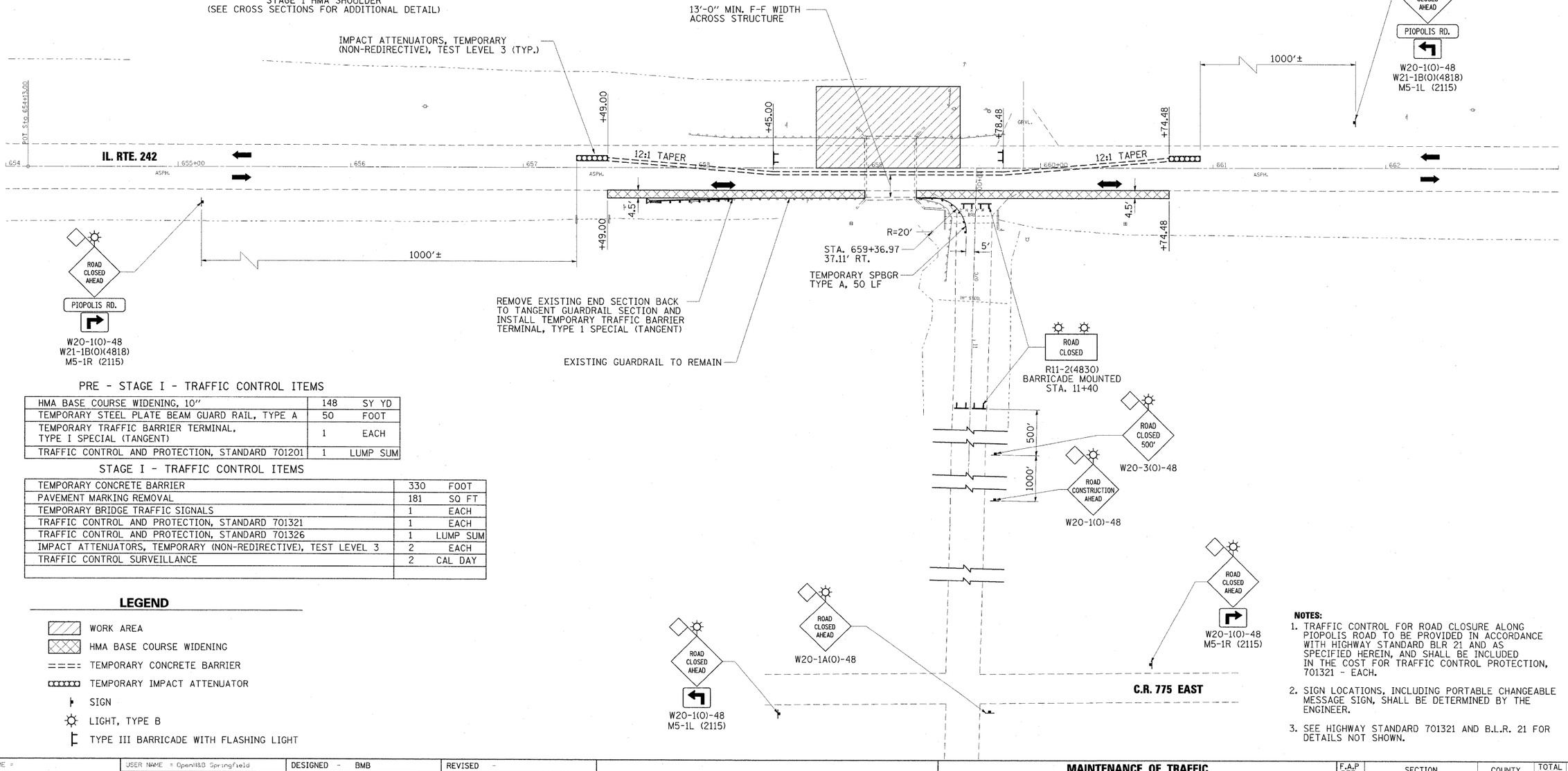
SCALE: | SHEET NO. 3 OF 3 SHEETS | STA. 10+00 | TO STA. 12+00

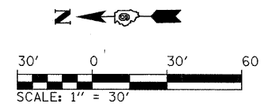
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-2	HAMILTON	42	13
		CONTRACT NO. 78081		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



TYPICAL SECTION – STAGE I

STAGE I HMA SHOULDER
(SEE CROSS SECTIONS FOR ADDITIONAL DETAIL)





PRE - STAGE I - TRAFFIC CONTROL ITEMS

HMA BASE COURSE WIDENING, 10"	148	SY YD
TEMPORARY STEEL PLATE BEAM GUARD RAIL, TYPE A	50	FOOT
TEMPORARY TRAFFIC BARRIER TERMINAL, TYPE I SPECIAL (TANGENT)	1	EACH
TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	1	LUMP SUM

STAGE I - TRAFFIC CONTROL ITEMS

TEMPORARY CONCRETE BARRIER	330	FOOT
PAVEMENT MARKING REMOVAL	181	SQ FT
TEMPORARY BRIDGE TRAFFIC SIGNALS	1	EACH
TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	1	EACH
TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	1	LUMP SUM
IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	2	EACH
TRAFFIC CONTROL SURVEILLANCE	2	CAL DAY

LEGEND

- WORK AREA
- HMA BASE COURSE WIDENING
- TEMPORARY CONCRETE BARRIER
- TEMPORARY IMPACT ATTENUATOR
- SIGN
- LIGHT, TYPE B
- TYPE III BARRICADE WITH FLASHING LIGHT

NOTES:

1. TRAFFIC CONTROL FOR ROAD CLOSURE ALONG PIOPOLIS ROAD TO BE PROVIDED IN ACCORDANCE WITH HIGHWAY STANDARD BLR 21 AND AS SPECIFIED HEREIN, AND SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL PROTECTION, 701321 - EACH.
2. SIGN LOCATIONS, INCLUDING PORTABLE CHANGEABLE MESSAGE SIGN, SHALL BE DETERMINED BY THE ENGINEER.
3. SEE HIGHWAY STANDARD 701321 AND B.L.R. 21 FOR DETAILS NOT SHOWN.

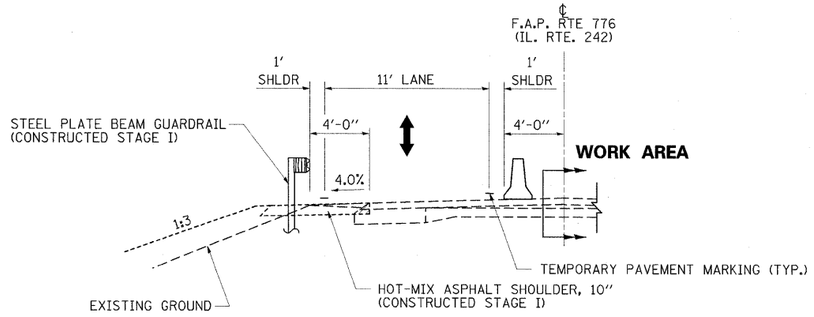
FILE NAME = ...\D978081-sht-stg 1_001.dgn	USER NAME = OpenIl&B Springfield	DESIGNED - BMB	REVISED -
		DRAWN - RAH	REVISED -
	PLOT SCALE = 30.0000 ' / IN.	CHECKED - JMM	REVISED -
	PLOT DATE = 5/21/2010	DATE - APRIL 2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
F.A.P. ROUTE 776 (IL 242)
STAGE I

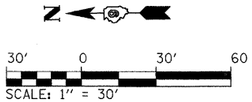
SCALE: 1" = 30' | SHEET NO. 14 OF 42 SHEETS | STA. | TO STA.

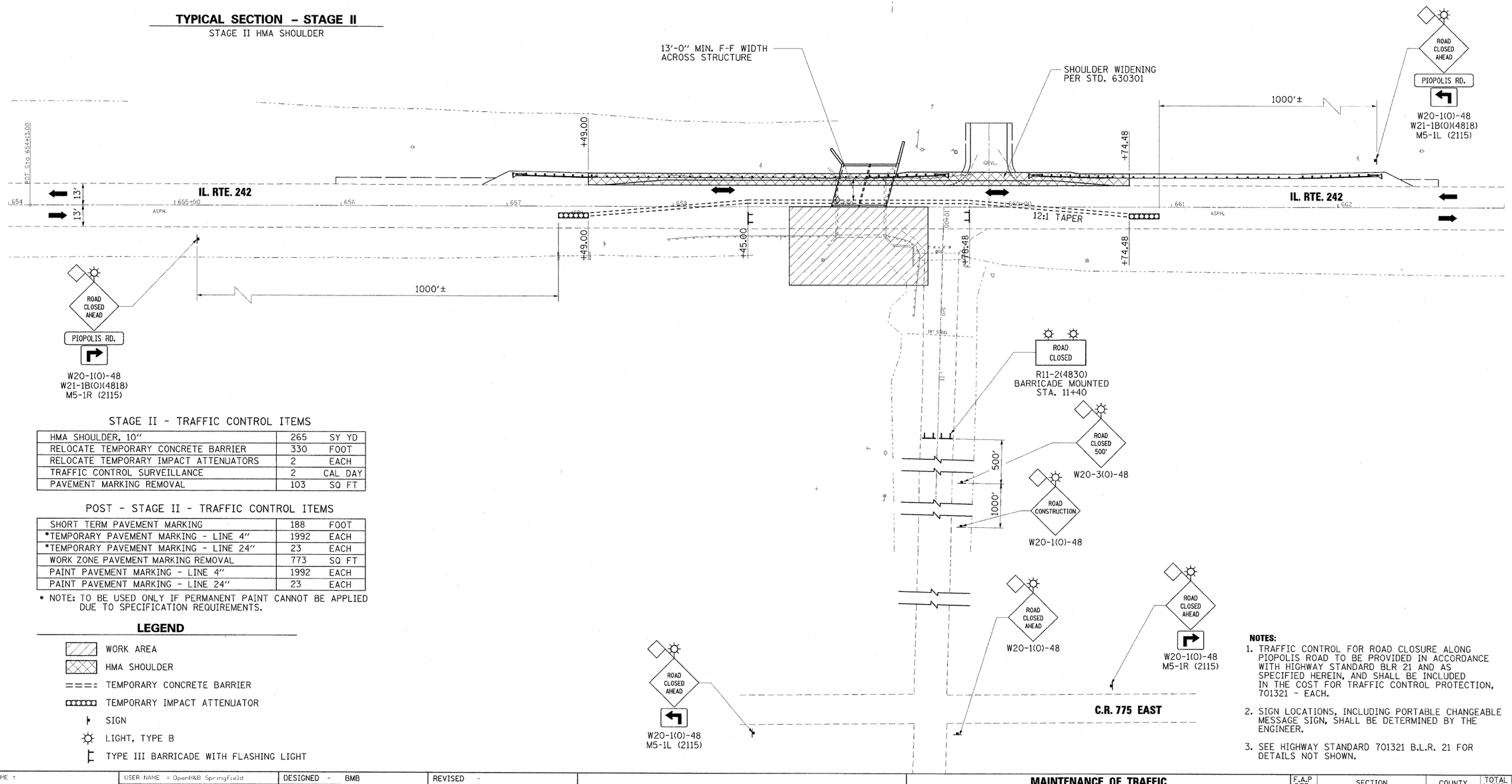
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-4	HAMILTON	42	14
		CONTRACT NO. 78081		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



TYPICAL SECTION - STAGE II

STAGE II HMA SHOULDER





STAGE II - TRAFFIC CONTROL ITEMS

HMA SHOULDER, 10"	265	SY YD
RELOCATE TEMPORARY CONCRETE BARRIER	330	FOOT
RELOCATE TEMPORARY IMPACT ATTENUATORS	2	EACH
TRAFFIC CONTROL SURVEILLANCE	2	CAL DAY
PAVEMENT MARKING REMOVAL	103	SQ FT

POST - STAGE II - TRAFFIC CONTROL ITEMS

SHORT TERM PAVEMENT MARKING	188	FOOT
*TEMPORARY PAVEMENT MARKING - LINE 4"	1992	EACH
*TEMPORARY PAVEMENT MARKING - LINE 24"	23	EACH
WORK ZONE PAVEMENT MARKING REMOVAL	773	SQ FT
PAINT PAVEMENT MARKING - LINE 4"	1992	EACH
PAINT PAVEMENT MARKING - LINE 24"	23	EACH

* NOTE: TO BE USED ONLY IF PERMANENT PAINT CANNOT BE APPLIED DUE TO SPECIFICATION REQUIREMENTS.

LEGEND

- WORK AREA
- HMA SHOULDER
- TEMPORARY CONCRETE BARRIER
- TEMPORARY IMPACT ATTENUATOR
- SIGN
- LIGHT, TYPE B
- TYPE III BARRICADE WITH FLASHING LIGHT

NOTES:

1. TRAFFIC CONTROL FOR ROAD CLOSURE ALONG PIOPOLIS ROAD TO BE PROVIDED IN ACCORDANCE WITH HIGHWAY STANDARD BLR 21 AND AS SPECIFIED HEREIN, AND SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL PROTECTION, 701321 - EACH.
2. SIGN LOCATIONS, INCLUDING PORTABLE CHANGEABLE MESSAGE SIGN, SHALL BE DETERMINED BY THE ENGINEER.
3. SEE HIGHWAY STANDARD 701321 B.L.R. 21 FOR DETAILS NOT SHOWN.

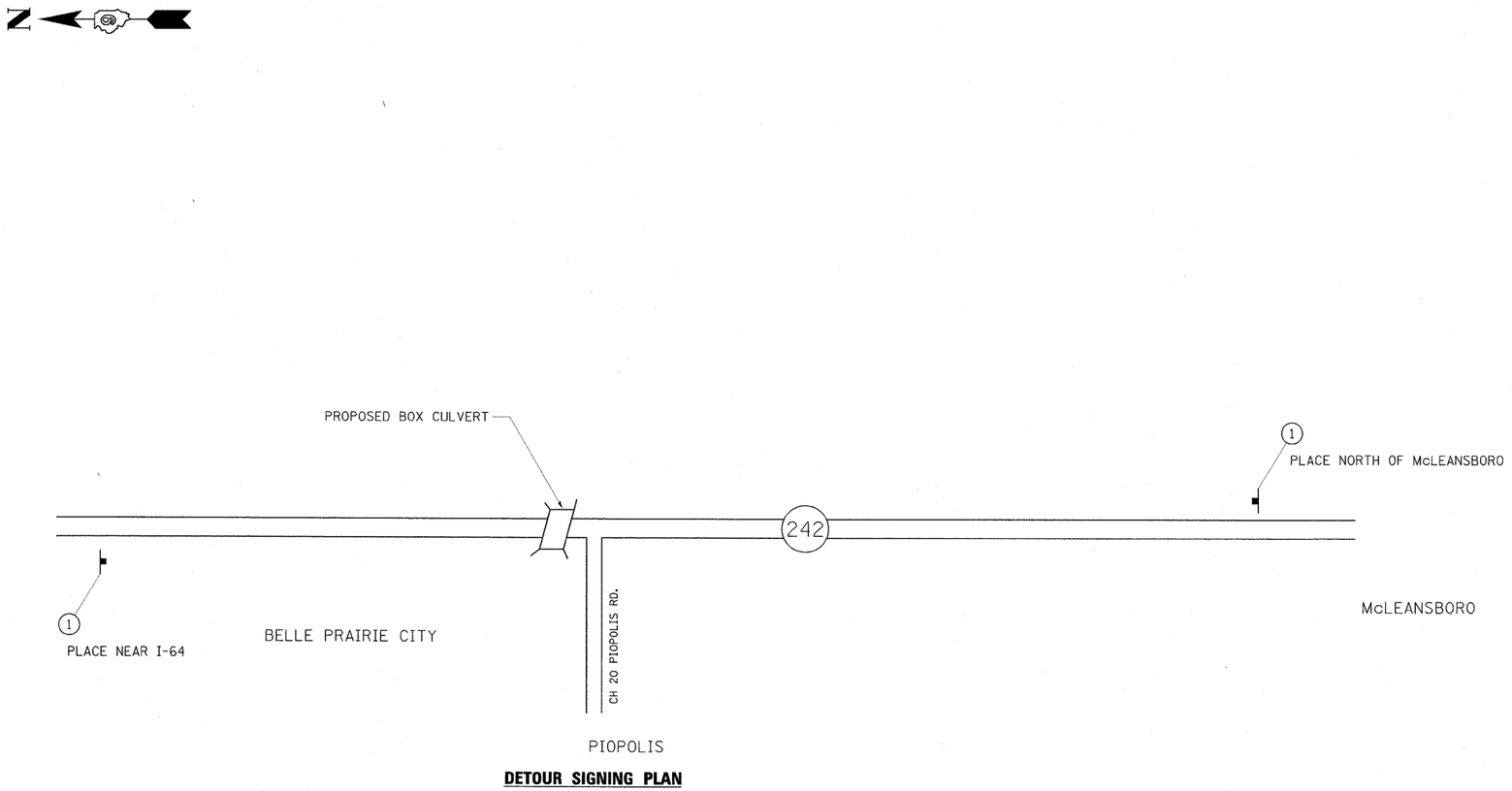
FILE NAME = ...\D978081-sht-stg 2_001.dgn	USER NAME = OpenH&B Springfield	DESIGNED - BMB	REVISED -
		DRAWN - RAH	REVISED -
	PLOT SCALE = 30.0000 ' / IN.	CHECKED - JMM	REVISED -
	PLOT DATE = 5/21/2010	DATE - APRIL 2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
F.A.P. ROUTE 776 (IL 242)
STAGE II

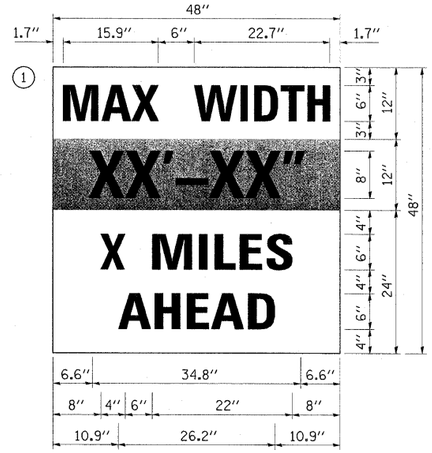
SCALE: 1" = 30' | SHEET NO. 15 OF 42 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-4	HAMILTON	42	15
		CONTRACT NO. 78081		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



DETOUR SIGNING PLAN

SIGN LEGEND



W12-I103

W12-I103 (WIDTH IS 8D);
NO BORDER, BLACK ON WHITE;
"MAX WIDTH" D;
NO BORDER, BLACK ON ORANGE;
"XX'-XX"" D;
NO BORDER, BLACK ON WHITE;
"X MILES" D; "AHEAD" D

DETOUR NOTES:

1. THE CONTRACTOR SHALL FURNISH THE POSTS AND ERECT THE SIGNS AT THE LOCATIONS AS DIRECTED BY THE ENGINEER. ALL SIGNS SHALL BE POST MOUNTED.
2. THE ABOVE NOTED WORK, INCLUDING SIGNS, POSTS, HARDWARE AND LABOR SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE, EACH, FOR TRAFFIC CONTROL AND PROTECTION, STD 701321 AND NO OTHER COMPENSATION WILL BE ALLOWED.
3. THE WIDTH SHOWN ON THE W12-I103 SIGN SHALL BE 11'-6" FOR STAGE I AND 11'-6" FOR STAGE II OR AS DIRECTED BY THE ENGINEER. THE "X" MILES AHEAD WILL BE DETERMINED BY THE ENGINEER.

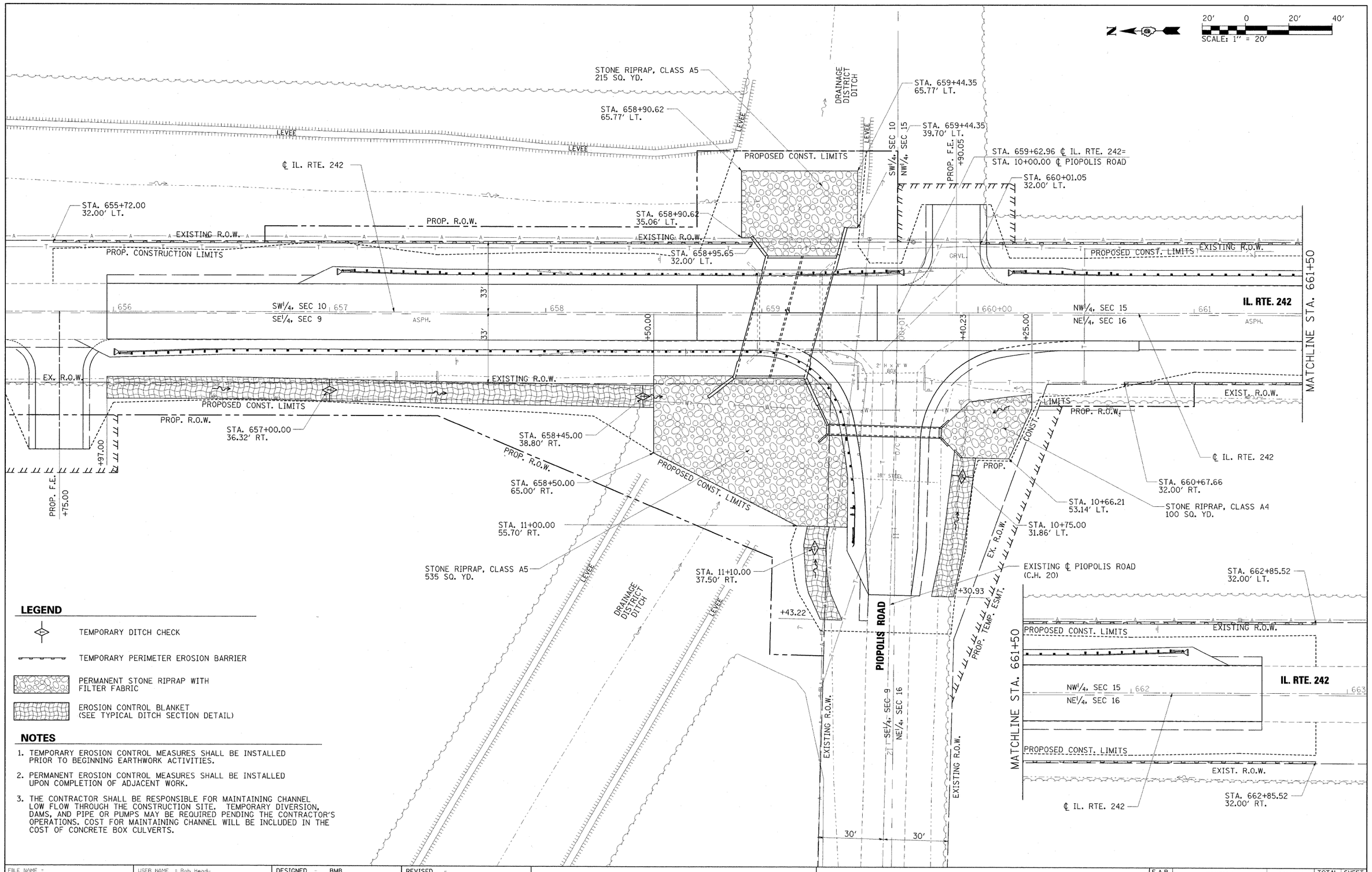
FILE NAME = ...\D978081-sht-DetourPlan.dgn	USER NAME = Rob Heady	DESIGNED - BMB	REVISED -
		DRAWN - RAH	REVISED -
	PLOT SCALE = 100.0000 ' / IN.	CHECKED - JMM	REVISED -
	PLOT DATE = 5/21/2010	DATE - APRIL 2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIDE LOAD DETOUR
F.A.P. ROUTE 776 (IL. RTE. 242)

SCALE: NTS | SHEET NO. 16 OF 42 SHEETS | STA. N/A | TO STA. N/A

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-2	HAMILTON	42	16
		CONTRACT NO. 78081		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



LEGEND

- TEMPORARY DITCH CHECK
- TEMPORARY PERIMETER EROSION BARRIER
- PERMANENT STONE RIPRAP WITH FILTER FABRIC
- EROSION CONTROL BLANKET (SEE TYPICAL DITCH SECTION DETAIL)

NOTES

1. TEMPORARY EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO BEGINNING EARTHWORK ACTIVITIES.
2. PERMANENT EROSION CONTROL MEASURES SHALL BE INSTALLED UPON COMPLETION OF ADJACENT WORK.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING CHANNEL LOW FLOW THROUGH THE CONSTRUCTION SITE. TEMPORARY DIVERSION, DAMS, AND PIPE OR PUMPS MAY BE REQUIRED PENDING THE CONTRACTOR'S OPERATIONS. COST FOR MAINTAINING CHANNEL WILL BE INCLUDED IN THE COST OF CONCRETE BOX CULVERTS.

FILE NAME = ...\sheets\D978081-sht-eros.dgn	USER NAME = Rob Heady	DESIGNED - BMB	REVISED -
		DRAWN - RAH	REVISED -
	PLOT SCALE = 20.0000 ' / IN.	CHECKED - JMM	REVISED -
	PLOT DATE = 5/21/2010	DATE - APRIL 2010	REVISED -

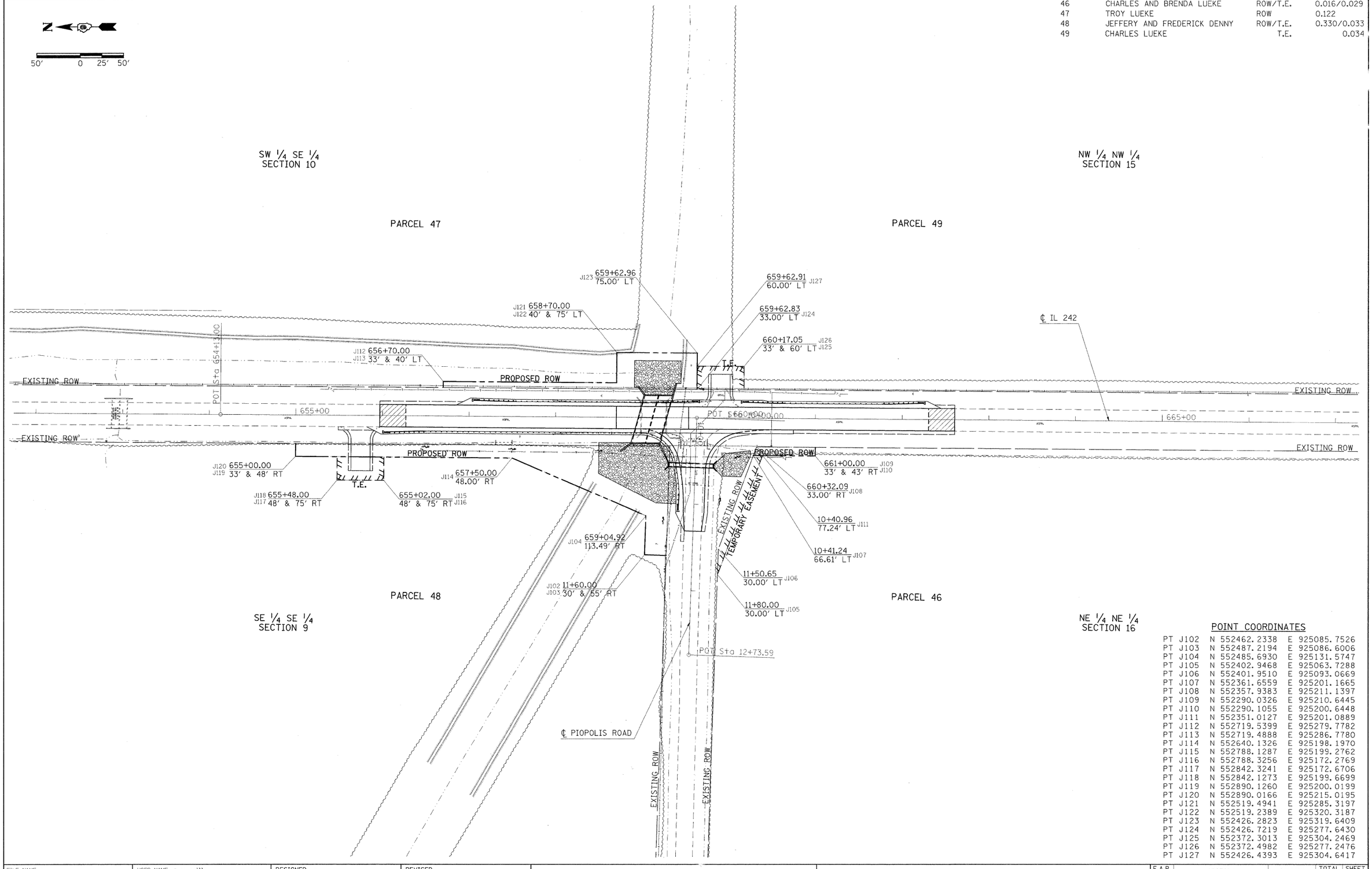
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STORM WATER POLLUTION PREVENTION PLANS
F.A.P. ROUTE 776 (IL. RTE. 242)

SCALE: | SHEET NO. OF SHEETS | STA. 657+50 TO STA. 663+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-4	HAMILTON	42	17
		CONTRACT NO. 78081		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

PARCEL NO.	PROPERTY OWNER	PURPOSE	ACREAGE
46	CHARLES AND BRENDA LUEKE	ROW/T.E.	0.016/0.029
47	TROY LUEKE	ROW	0.122
48	JEFFERY AND FREDERICK DENNY	ROW/T.E.	0.330/0.033
49	CHARLES LUEKE	T.E.	0.034



POINT COORDINATES

PT J102	N 552462.2338	E 925085.7526
PT J103	N 552487.2194	E 925086.6006
PT J104	N 552485.6930	E 925131.5747
PT J105	N 552402.9468	E 925063.7288
PT J106	N 552401.9510	E 925093.0669
PT J107	N 552361.6559	E 925201.1665
PT J108	N 552357.9383	E 925211.1397
PT J109	N 552290.0326	E 925210.6445
PT J110	N 552290.1055	E 925200.6448
PT J111	N 552351.0127	E 925201.0889
PT J112	N 552719.5399	E 925279.7782
PT J113	N 552719.4888	E 925286.7780
PT J114	N 552640.1326	E 925198.1970
PT J115	N 552788.1287	E 925199.2762
PT J116	N 552788.3256	E 925172.2769
PT J117	N 552842.3241	E 925172.6706
PT J118	N 552842.1273	E 925199.6699
PT J119	N 552890.1260	E 925200.0199
PT J120	N 552890.0166	E 925215.0195
PT J121	N 552519.4941	E 925285.3197
PT J122	N 552519.2389	E 925320.3187
PT J123	N 552426.2823	E 925319.6409
PT J124	N 552426.7219	E 925277.6430
PT J125	N 552372.3013	E 925304.2469
PT J126	N 552372.4982	E 925277.2476
PT J127	N 552426.4393	E 925304.6417

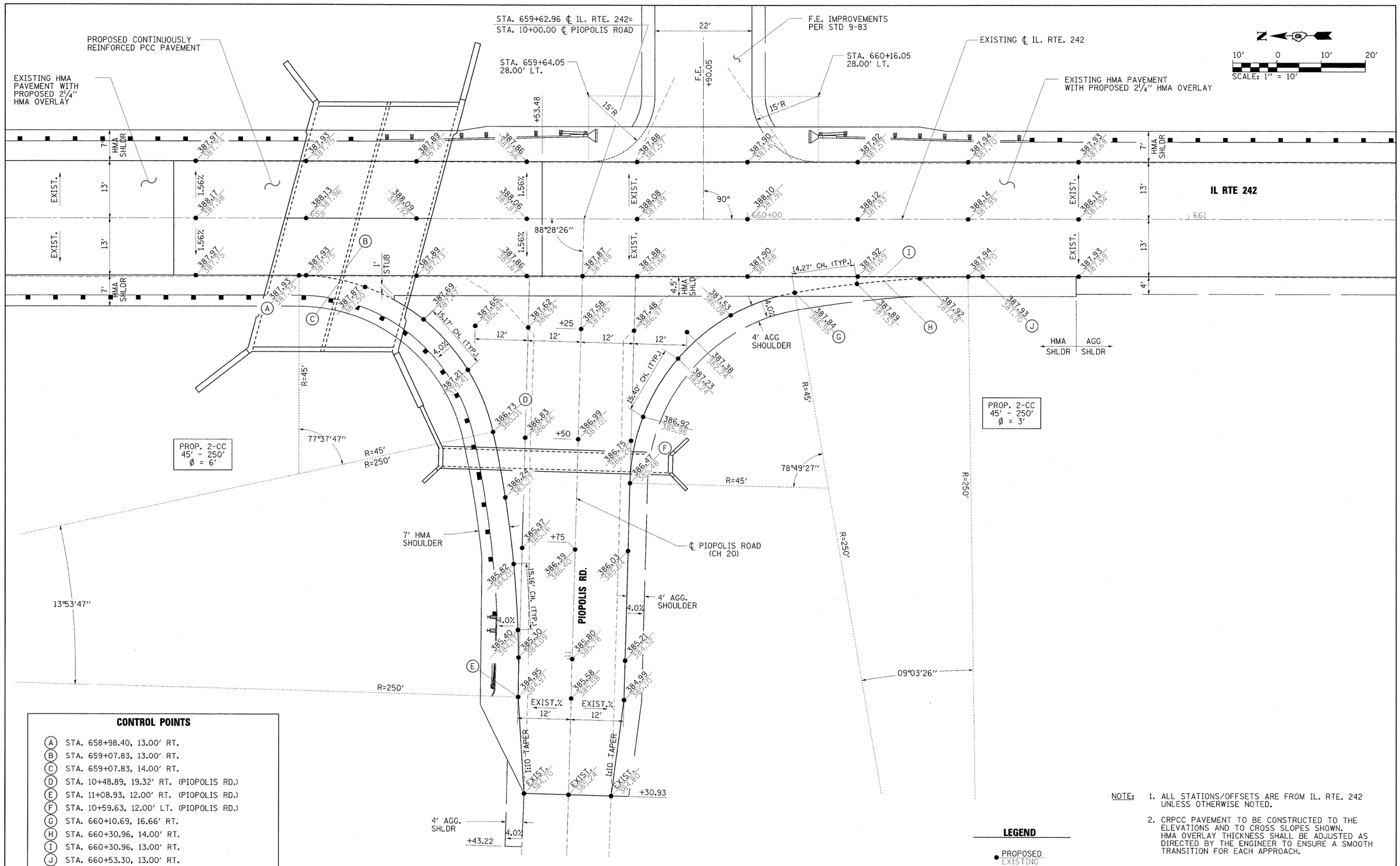
FILE NAME = c:\pw_work\PWIDOT\CORNELLLM\d0131777\r-920407_sht_row.dgn	USER NAME = cornelllm	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 6/11/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SN 033-0028 ON IL 242
ROW PLAN /R-99-004-07

SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. 652+00.00 TO STA. 667+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B	HAMILTON	42	18
		CONTRACT NO. 78081		
	ILLINOIS FED. AID PROJECT			



CONTROL POINTS

- (A) STA. 658+98.40, 13.00' RT.
- (B) STA. 659+07.83, 13.00' RT.
- (C) STA. 659+07.83, 14.00' RT.
- (D) STA. 10+48.89, 19.32' RT. (PIOPOLIS RD.)
- (E) STA. 11+08.93, 12.00' RT. (PIOPOLIS RD.)
- (F) STA. 10+59.63, 12.00' LT. (PIOPOLIS RD.)
- (G) STA. 660+10.69, 16.66' RT.
- (H) STA. 660+30.96, 14.00' RT.
- (I) STA. 660+30.96, 13.00' RT.
- (J) STA. 660+53.30, 13.00' RT.

LEGEND

● PROPOSED
EXISTING

NOTE:
1. ALL STATIONS/OFFSETS ARE FROM IL. RTE. 242 UNLESS OTHERWISE NOTED.
2. CRPCC PAVEMENT TO BE CONSTRUCTED TO THE ELEVATIONS AND TO CROSS SLOPES SHOWN. HMA OVERLAY THICKNESS SHALL BE ADJUSTED AS DIRECTED BY THE ENGINEER TO ENSURE A SMOOTH TRANSITION FOR EACH APPROACH.

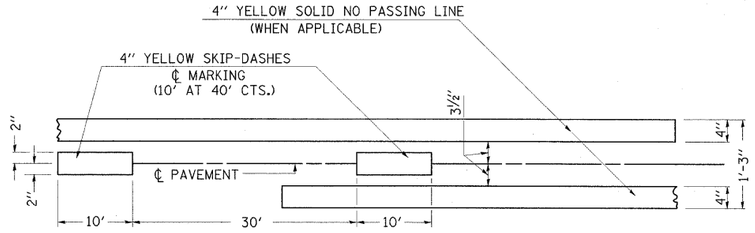
FILE NAME = ...\D978081-sht-intersec.dgn	USER NAME = Rob Heady	DESIGNED - BMB	REVISED -
		DRAWN - RAH	REVISED
	PLOT SCALE = 10.0000 ' / IN.	CHECKED - JMM	REVISED -
	PLOT DATE = 5/21/2010	DATE - APRIL 2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERSECTION DETAIL
F.A.P ROUTE 776 (IL. RTE. 242)

SCALE: 1" = 10' | SHEET NO. OF SHEETS | STA. 658+50 | TO STA. 661+50

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-4	HAMILTON	42	19
		CONTRACT NO. 78081		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



TYPICAL PAVEMENT MARKING SPACING

NOTE:

1. PAVEMENT MARKING TO BE PLACED IN ACCORDANCE WITH IDOT STANDARD 780001 AND AS SHOWN HEREIN.
2. CONTRACTOR TO COVER CONFLICTING SIGNAGE DURING STAGED CONSTRUCTION.
3. SIGN PANEL ASSEMBLIES AS SHOWN WILL BE REMOVED AND RELOCATED AS DIRECTED BY THE RESIDENT ENGINEER. COST FOR REMOVAL/RELOCATION OF EXISTING SIGNS SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 - EACH.

PAINT PAVEMENT MARKING – LINE

STA. - STA.	SOLID EDGE-LINE 4" (WHITE)	SKIP - DASH CENTERLINE 4" (YELLOW)	SOLID STOP BAR 24" (WHITE)
	FOOT		
654+40.00 - 663+80.00, LT.	940'		
654+43.87 - 663+76.13, ℄		235'	
654+40+00 - 659+07.83, RT.	468'		
660+30.96 - 663+80.00, RT.	349'		
10+27.00 (PIOPOLIS ROAD)			23'

FILE NAME = ...\sheets\D978081-sht-pvt001.dgn	USER NAME = Rob Heady	DESIGNED - BMB	REVISED -
		DRAWN - RAH	REVISED -
	PLOT SCALE = 40.0000 ' / IN.	CHECKED - JMM	REVISED -
	PLOT DATE = 5/21/2010	DATE - APRIL 2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
F.A.P. ROUTE 776 (IL. ROUTE 242)

SCALE: 1"=40' | SHEET NO. 20 OF 42 SHEETS | STA. 653+00 TO STA. 665+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-4	HAMILTON	42	20
		CONTRACT NO. 78081		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

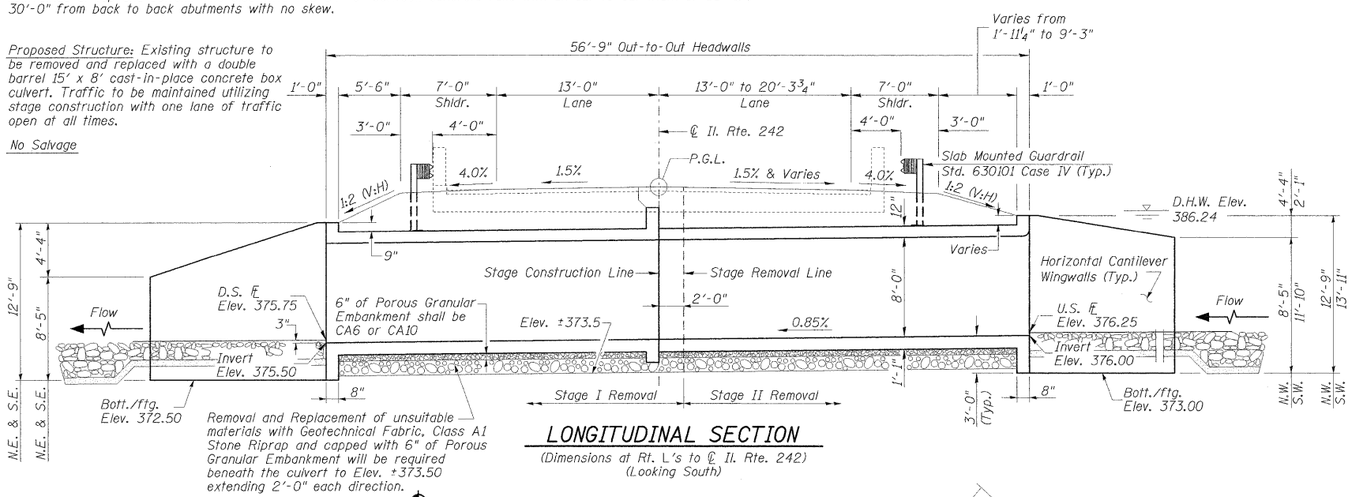
Bench Mark: Chiseled "□" on northwest wingwall of S.N. 033-0028 Elev. 387.37.

Existing Structure: S.N. 033-0028 was built in 1928 as part of S.B.I. Route 142 Section 102B at Sta. 659+13.00. The existing structure is a single-span reinforced concrete slab bridge on closed abutments with timber piles, and is restrained at top and bottom. The clear width is 34'-0" between concrete rails with an out-to-out width of 36'-2"; 30'-0" from back to back abutments with no skew.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

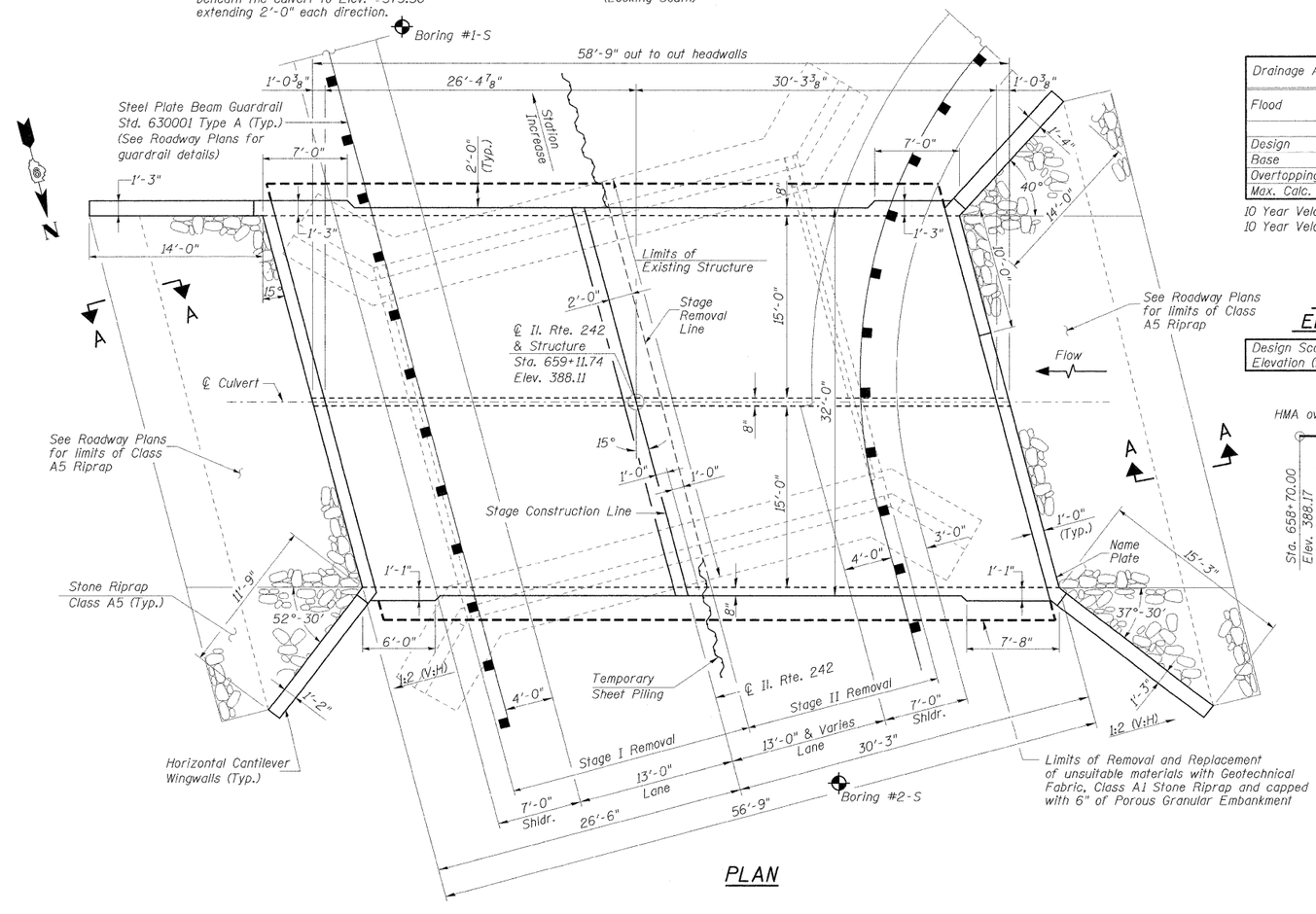
Proposed Structure: Existing structure to be removed and replaced with a double barrel 15' x 8' cast-in-place concrete box culvert. Traffic to be maintained utilizing stage construction with one lane of traffic open at all times.

No Salvage



LONGITUDINAL SECTION

(Dimensions at Rt. L's to ℄ Il. Rte. 242)
(Looking South)



PLAN

LOADING HS 20-44

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

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

DESIGN SPECIFICATIONS

AASHTO Standard Specifications for Highway Bridges 2002

STATION 659+11.74
BUILT 201_ BY
STATE OF ILLINOIS
F.A.P. RT 776 SEC. 102B-4
LOADING HS 20
STR. NO. 033-2010

NAME PLATE

See Std. 515001
(Locate Name Plate on North end of West headwall)

WATERWAY INFORMATION

Drainage Area = 3.54 sq. mi. Existing Low Grade Elev. 387.87 @ Sta. 659+50.00
Proposed Low Grade Elev. 387.87 @ Sta. 659+53.00

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.
	10	1150	223.74	240.00	385.99	1.31	0.58	387.30	386.57
Design	50	1870	223.74	240.00	386.24	1.94	1.43	388.18	387.67
Base	100	2200	223.74	240.00	386.34	2.17	1.65	388.51	387.99
Overtopping									
Max. Calc.	500	3040	223.74	240.00	386.61	2.07	1.62	388.68	388.23

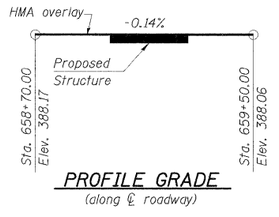
10 Year Velocity through Existing Bridge = 5.31 fps
10 Year Velocity through Proposed Culvert = 4.07 fps

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	D.S. Invert	U.S. Invert
	372.50	373.00

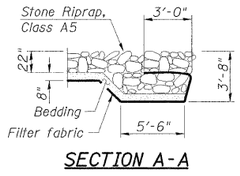
BORING DATA

Boring No.	Station	Offset
1-S	659+60	9' Lt.
2-S	658+77	8' Rt.



PROFILE GRADE

(along ℄ roadway)



SECTION A-A

05-20-2010
LICENSED STRUCTURAL ENGINEER
WILLIAM L. BAILEY, JR.
081-005087
STATE OF ILLINOIS

William L. Bailey Jr., P.E. S.E.
Illinois Licensed Structural Engineer
License Number 081-005087
Expiration Date: November 30, 2010

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

ENGINEER OF BRIDGES AND STRUCTURES

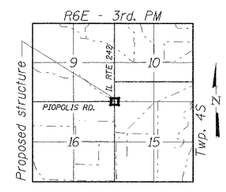
INDEX OF SHEETS

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Removal and Disposal of Unsuitable Material	Cu. Yd.	176
Porous Granular Embankment	Cu. Yd.	542
Geotechnical Fabric for Ground Stabilization	Sq. Yd.	235
Stone Riprap, Class A1	Ton	103
Removal of Existing Structures	Each	1
Structure Excavation	Cu. Yd.	312
Reinforcement Bars	Pound	47,030
Bar Splicers	Each	169
Temporary Sheet Piling	Sq. Ft.	950
Name Plates	Each	1
Concrete Box Culverts	Cu. Yd.	222.1

GENERAL NOTES:

1. Reinforcement bars shall conform to the requirements of ASTM A706 Gr 60. See Special Provisions.
2. Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
3. A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
4. Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall saw cut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.
5. Precast culvert alternative is not allowed.



LOCATION SKETCH

GENERAL PLAN
IL RTE. 242 OVER UNNAMED STREAM
STATION 659+11.74
STRUCTURE NO. 033-2010

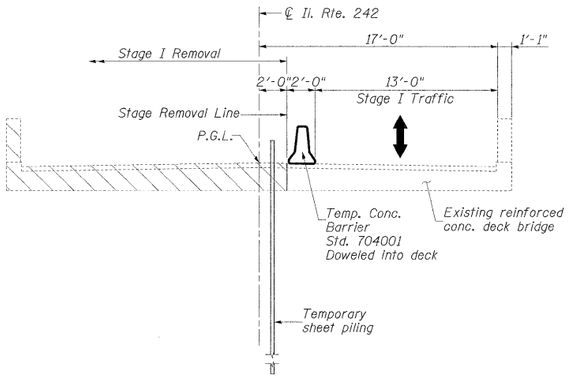
CMT
CRAWFORD MURPHY & TILLY, INC.
CONSULTING ENGINEERS
SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO
ROCKFORD, IL ■ PEORIA, IL ■ CHICAGO, IL

DESIGNED BY: CJW
CHECKED BY: WLB
DRAWN BY: GLD
DATE: 4/12/10

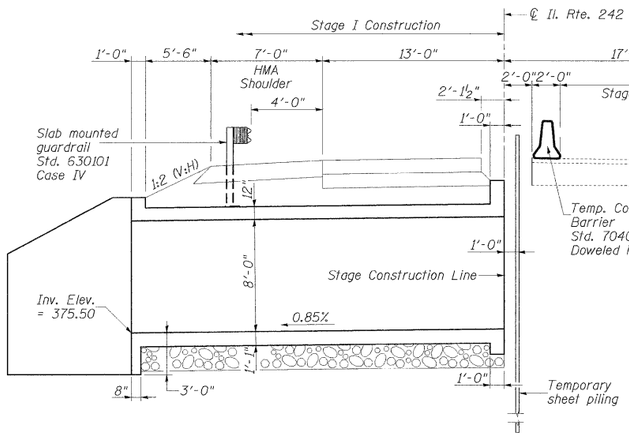
SHEET NO. 1
8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-4	HAMILTON	42	21
		CONTRACT NO. 78081		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

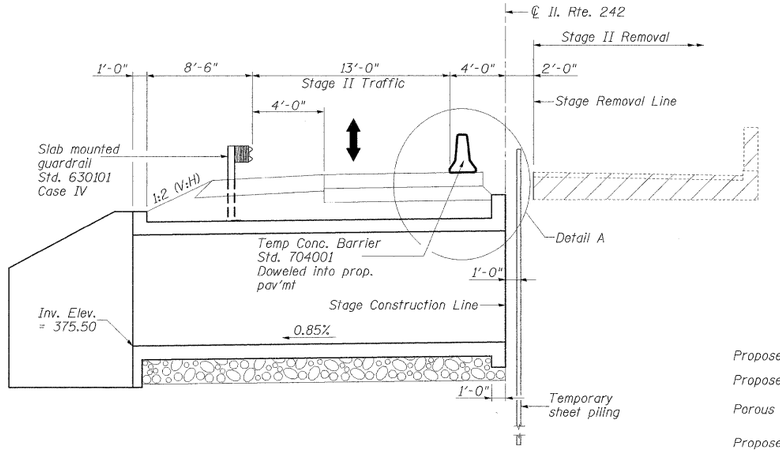
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



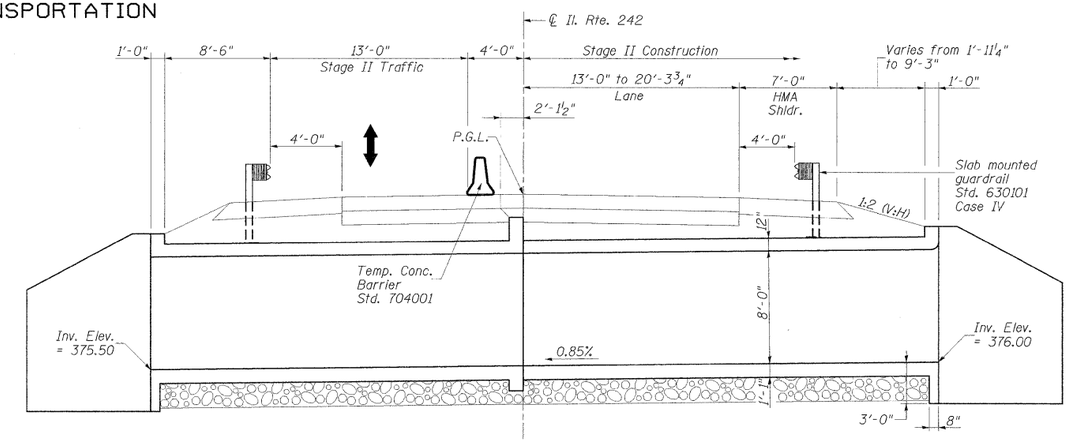
STAGE I REMOVAL
(Looking South)



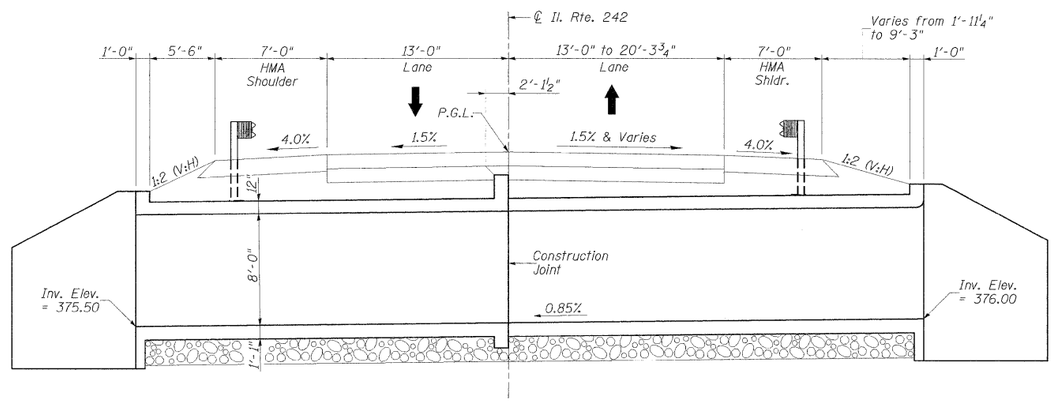
STAGE I CONSTRUCTION
(Looking South)



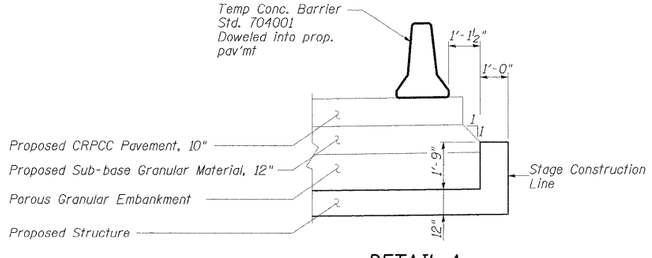
STAGE II REMOVAL
(Looking South)



STAGE II CONSTRUCTION
(Looking South)



FINAL ROADWAY RECONFIGURATION
(Looking South)



DETAIL A
(Looking South)

LEGEND

Structure Removal

NOTES:

1. For details of Temporary Concrete Barrier see Sheet 3 of 8.
2. Hatched areas indicate areas of existing concrete removal to be paid for as "Removal of Existing Structures".
3. Dimensions are at Rt. angles to ℄ Il. Rte. 242
4. For quantity of Temporary Concrete Barrier see Roadway plans.

STAGE CONSTRUCTION DETAILS
IL RTE. 242 OVER UNNAMED STREAM
STATION 659+11.74
STRUCTURE NO. 033-2010

CMT
CRAWFORD MURPHY & TILLY, INC.
CONSULTING ENGINEERS
SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO
ROCKFORD, IL ■ PEORIA, IL ■ CHICAGO, IL

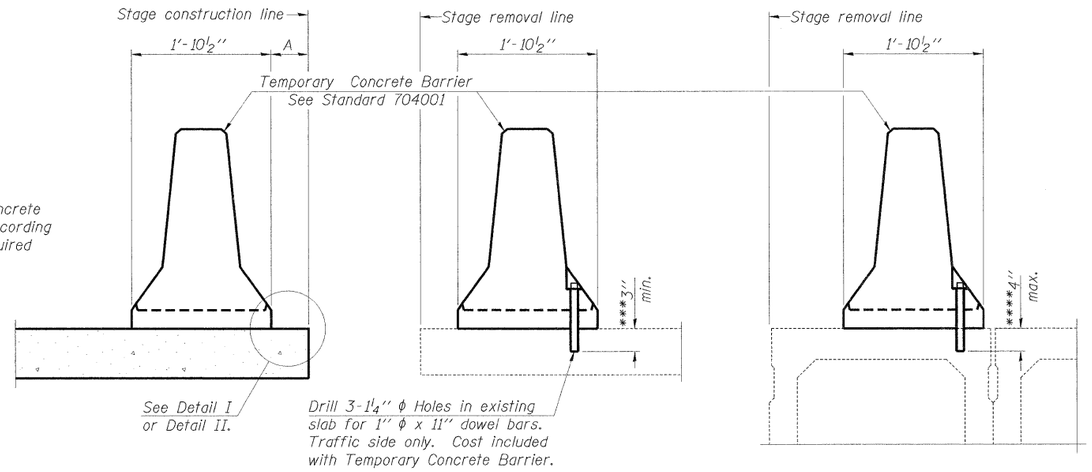
DESIGNED BY: CJW | DRAWN BY: GLD
CHECKED BY: WLB | DATE: 4/12/10

SHEET NO. 2
8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-4	HAMILTON	42	22
		CONTRACT NO. 78081		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



NEW SLAB | EXISTING SLAB | EXISTING DECK BEAM

NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel ℄ to the top layer of couplers with 2-⅝" ϕ bolts screwed to coupler at approximate ℄ of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x 10" steel ℄ to the concrete slab or concrete wearing surface with 2-⅝" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate ℄ of each barrier panel.

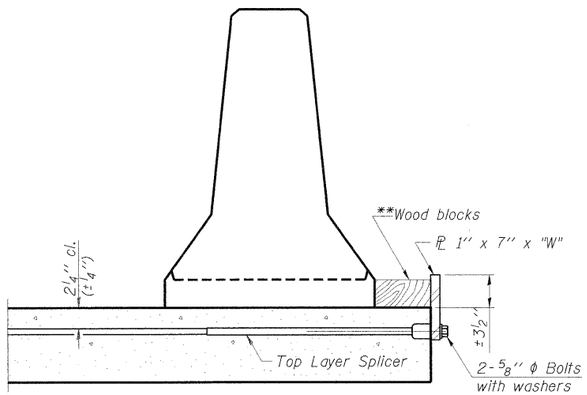
Cost of anchorage is included with Temporary Concrete Barrier.

The 1" x 7" x 10" 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.

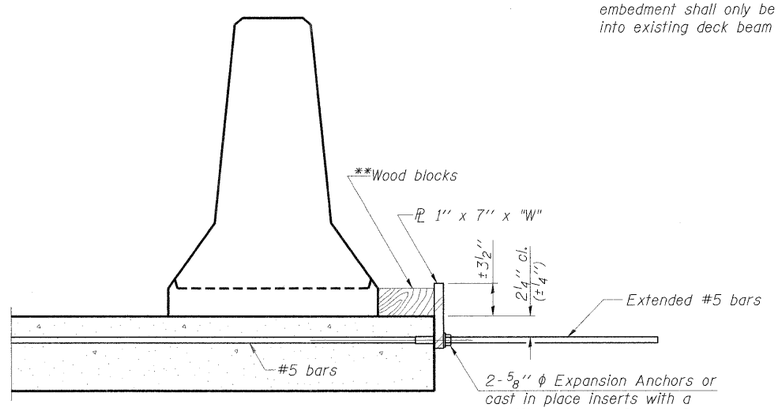
SECTIONS THRU SLAB OR DECK BEAM

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



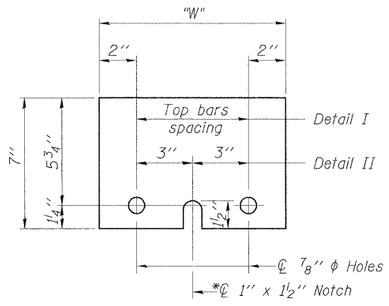
DETAIL I



DETAIL II

** 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.

"W" = Top bars spacing + 4"



STEEL RETAINER ℄ 1" x 7" x 10"

* Required only with Detail II

TEMPORARY CONCRETE BARRIER
IL RTE. 242 OVER UNNAMED STREAM
STATION 659+11.74
STRUCTURE NO. 033-2010

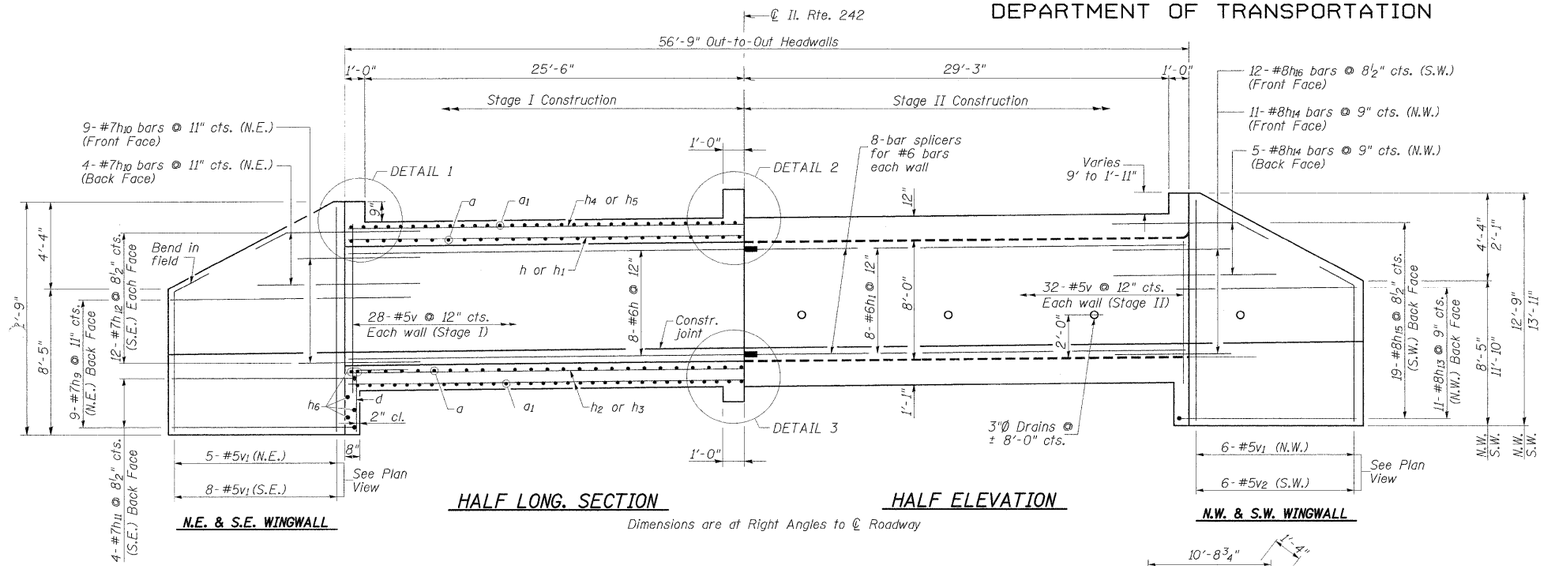
CMT
CRAWFORD MURPHY & TILLY, INC.
CONSULTING ENGINEERS
SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO
ROCKFORD, IL ■ PEORIA, IL ■ CHICAGO, IL

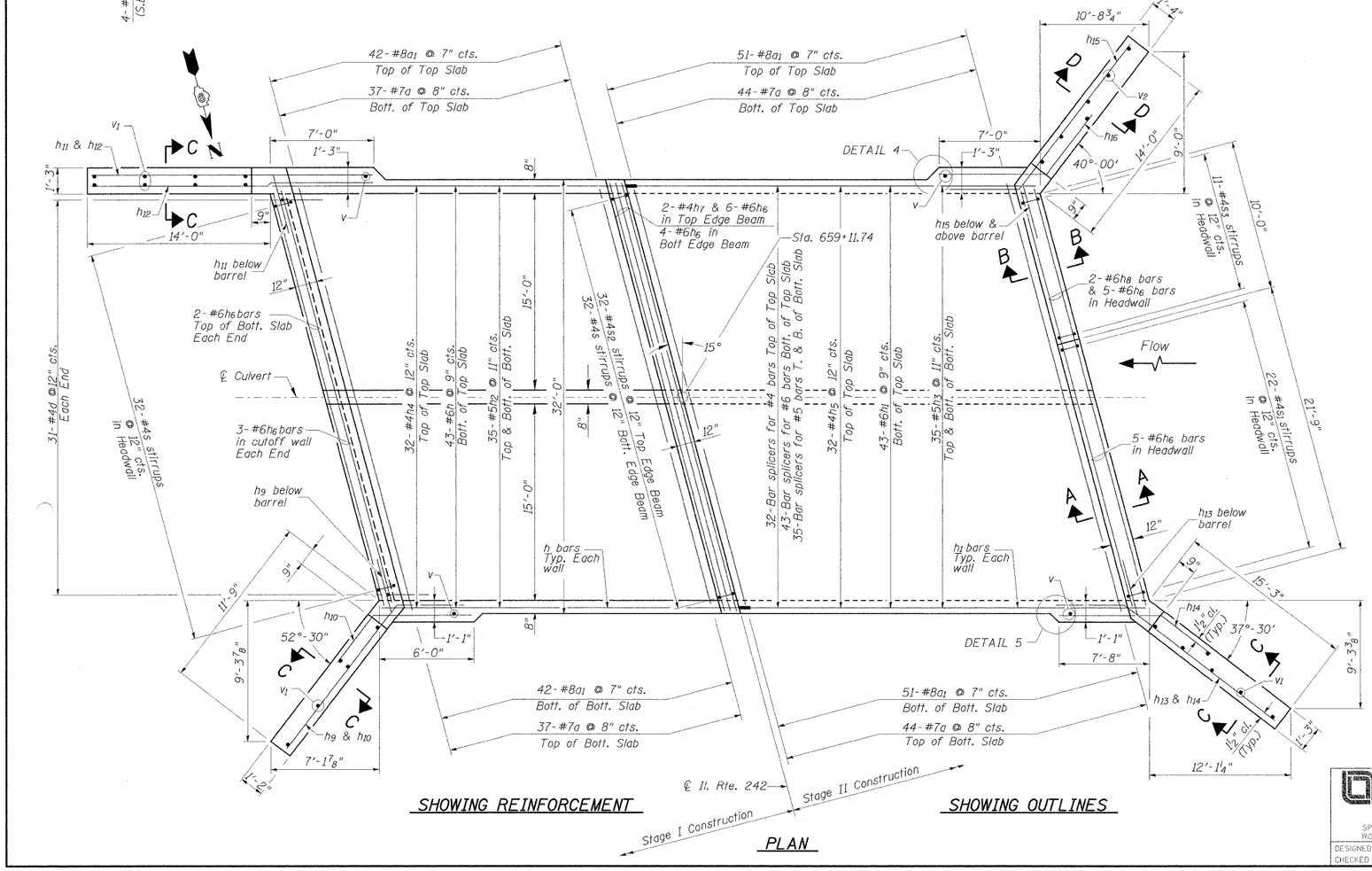
DESIGNED BY: CJW | DRAWN BY: GLD
CHECKED BY: WLB | DATE: 4/12/10

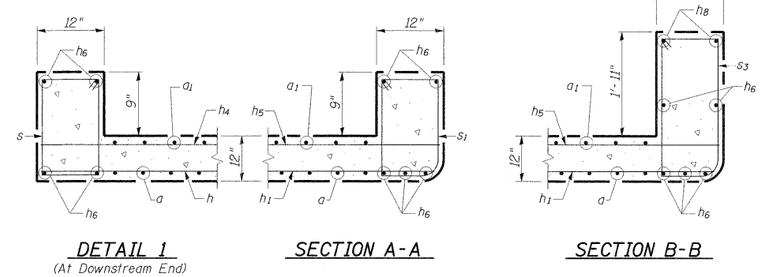
SHEET NO. 3
8 SHEETS

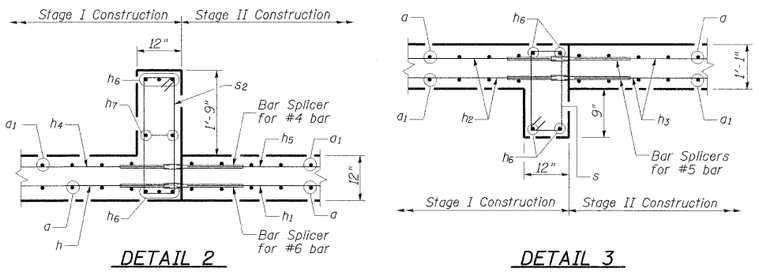
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-4	HAMILTON	42	23
		CONTRACT NO. 78081		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

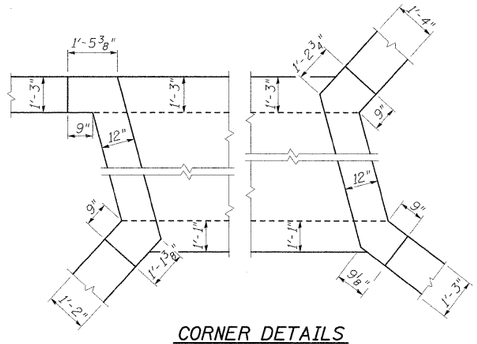
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION











NOTES:

1. A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
2. See Sheet 5 of 8 for Section thru barrel, Section C-C, Section D-D and Culvert Bill of Material.
3. See Sheet 5 of 8 for West Headwall Elevation.

BOX CULVERT DETAILS - 1
IL RTE. 242 OVER UNNAMED STREAM
STATION 659+11.74
STRUCTURE NO. 033-2010

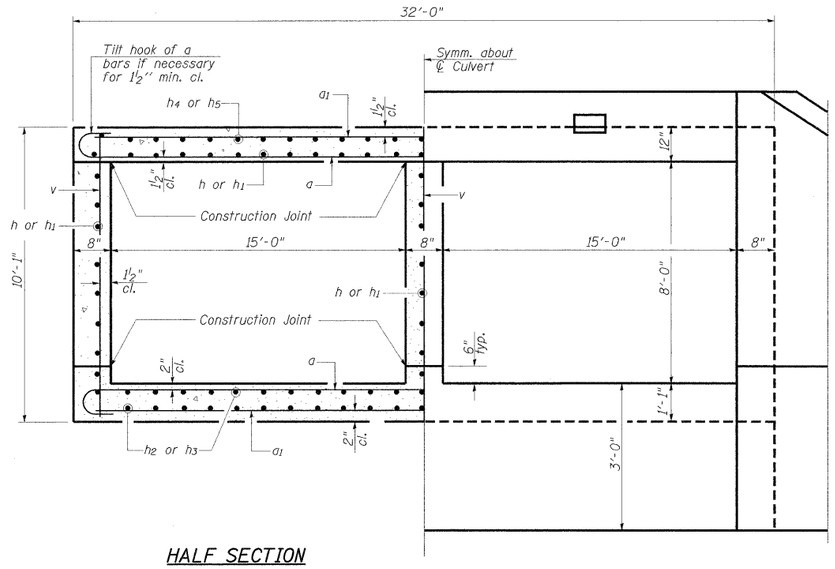
CMT
CRAWFORD MURPHY & TILLY, INC.
CONSULTING ENGINEERS
SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO
ROCKFORD, IL ■ PEORIA, IL ■ CHICAGO, IL

DESIGNED BY: CJW | DRAWN BY: GLD
CHECKED BY: WLB | DATE: 4/12/10

SHEET NO. 4
8 SHEETS

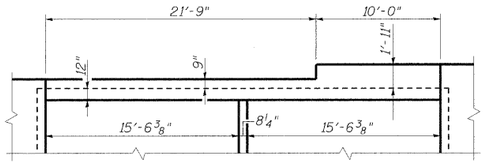
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-4	HAMILTON	42	24
		CONTRACT NO. 78081		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

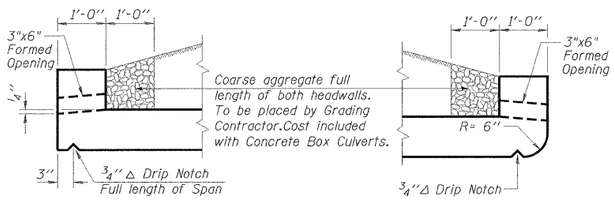


HALF SECTION THRU BARREL

HALF END ELEVATION



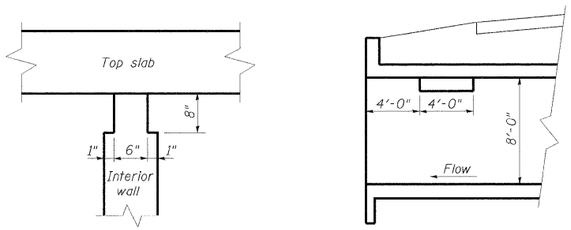
WEST HEADWALL ELEVATION
(Dimensions are along skew)
(Looking East)



DETAIL 1
(At Downstream End)

DRAIN DETAIL

SECTION A-A
(At Upstream End)

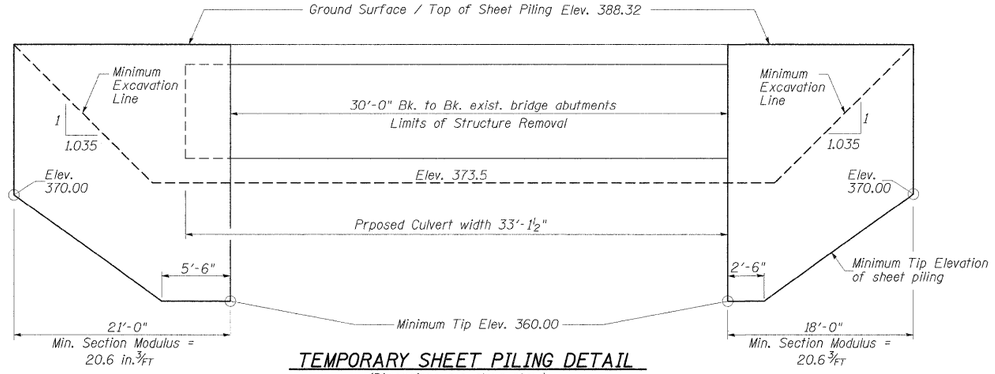


NOTCH DETAIL

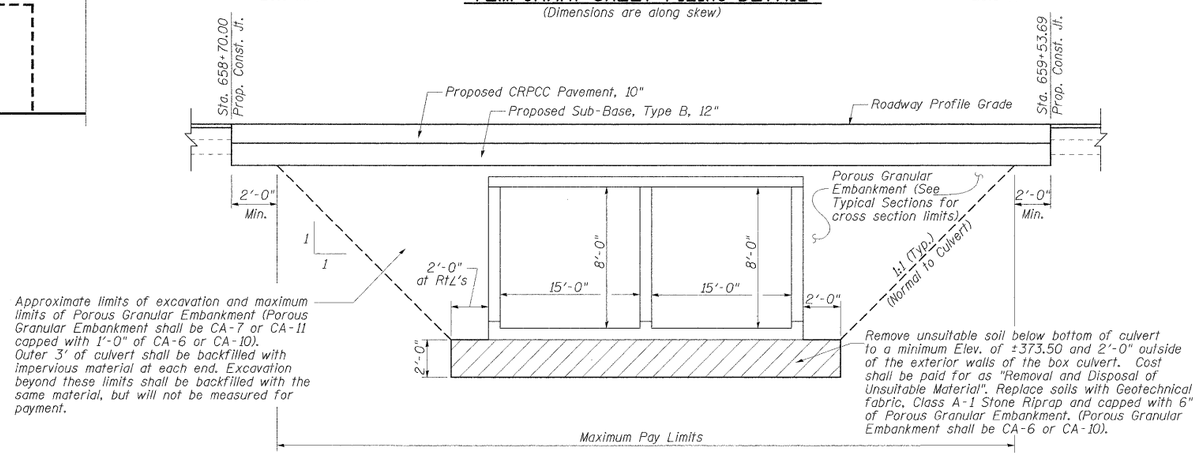
LONGITUDINAL SECTION

PHOEBE NESTING SITE DETAIL
(Near Downstream End)

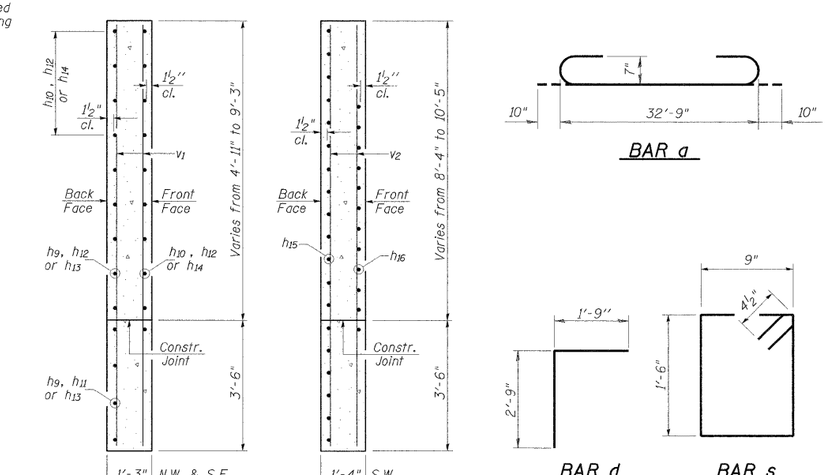
Note:
Notch formed by rough-finished board attached to and removed with formwork.

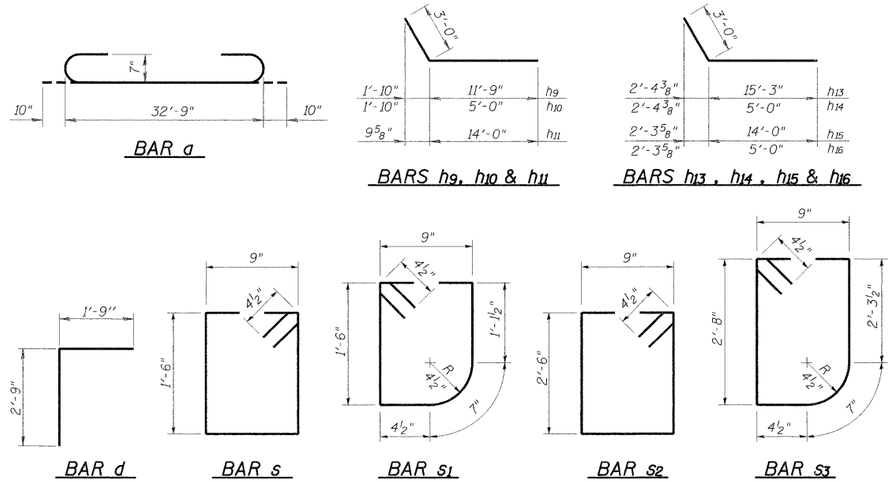


TEMPORARY SHEET PILING DETAIL
(Dimensions are along skew)



GRANULAR CULVERT BACKFILL DETAIL





BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	162	#7	34'-5"	
a1	186	#8	32'-9"	
d	64	#4	4'-6"	
h	67	#6	27'-1"	
h1	67	#6	30'-11"	
h2	70	#5	27'-1"	
h3	70	#5	30'-11"	
h4	32	#4	27'-1"	
h5	32	#4	30'-11"	
h6	29	#6	32'-10"	
h7	2	#4	32'-10"	
h8	2	#6	10'-10"	
h9	9	#7	14'-9"	
h10	13	#7	8'-0"	
h11	4	#7	17'-0"	
h12	24	#7	20'-9"	
h13	11	#8	18'-3"	
h14	16	#8	8'-0"	
h15	19	#8	17'-0"	
h16	12	#8	8'-0"	
s	64	#4	5'-3"	
s1	22	#4	5'-1"	
s2	32	#4	7'-3"	
s3	11	#4	7'-5"	
v	184	#5	9'-10"	
v1	19	#5	12'-5"	
v2	6	#5	13'-7"	

Porous Granular Embankment	Cu. Yd.	542
Reinforcement Bars	Pound	47,030
Concrete Box Culverts	Cu. Yd.	222.1
Bar Splicers	Each	169
Structure Excavation	Cu. Yd.	312

NOTES:

1. Work this sheet with sheet 4 of 8.
2. If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.
3. The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.

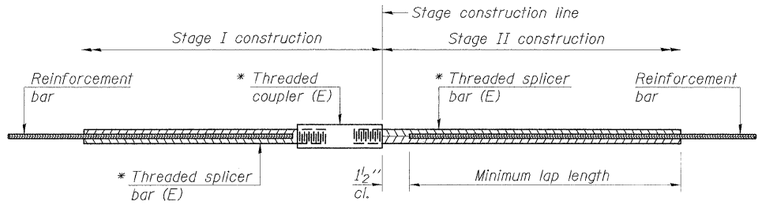
BOX CULVERT DETAILS - 2
IL RTE. 242 OVER UNNAMED STREAM
STATION 659+11.74
STRUCTURE NO. 033-2010

CMT
CRAWFORD MURPHY & TILLY, INC.
CONSULTING ENGINEERS
SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO
ROCKFORD, IL ■ PEORIA, IL ■ CHICAGO, IL

DESIGNED BY: CJW | DRAWN BY: GLD
CHECKED BY: WLB | DATE: 4/12/10

SHEET NO. 5
8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-4	HAMILTON	42	25
		CONTRACT NO. 78081		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		



STANDARD BAR SPLICER ASSEMBLY

Minimum Lap Lengths				
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4
3, 4	1'-5"	1'-11"	2'-1"	2'-4"
5	1'-9"	2'-5"	2'-7"	2'-11"
6	2'-1"	2'-11"	3'-1"	3'-6"
7	2'-9"	3'-10"	4'-2"	4'-8"
8	3'-8"	5'-1"	5'-5"	6'-2"
9	4'-7"	6'-5"	6'-10"	7'-9"

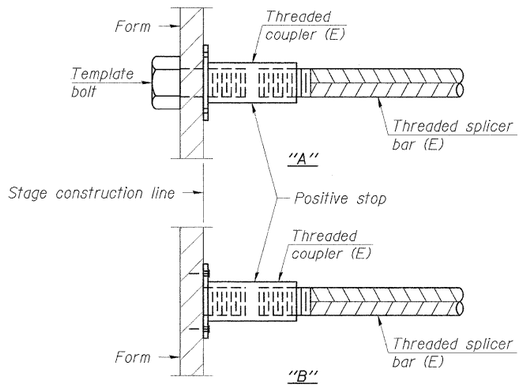
Table 1: Black bar, 0.8 Class C
Table 2: Black bar, Top bar lap, 0.8 Class C
Table 3: Epoxy bar, 0.8 Class C
Table 4: Epoxy bar, Top bar lap, 0.8 Class C

Threaded splicer bar length = min. lap length + 1½" + thread length

* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

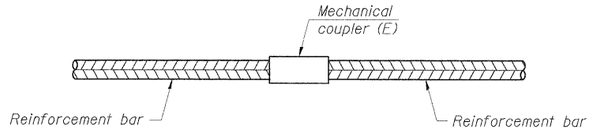
Location	Bar size	No. assemblies required	Table for minimum lap length
Top of Top Slab	#4	32	Table 3
Bottom of Top Slab	#6	43	Table 3
Bottom Slab	#5	70	Table 3
Culvert Barrel Walls	#6	24	Table 3

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



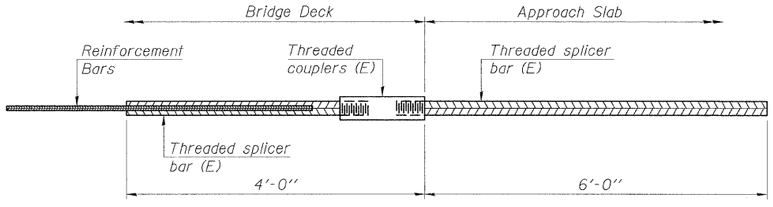
INSTALLATION AND SETTING METHODS

"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.
(E) : Indicates epoxy coating.



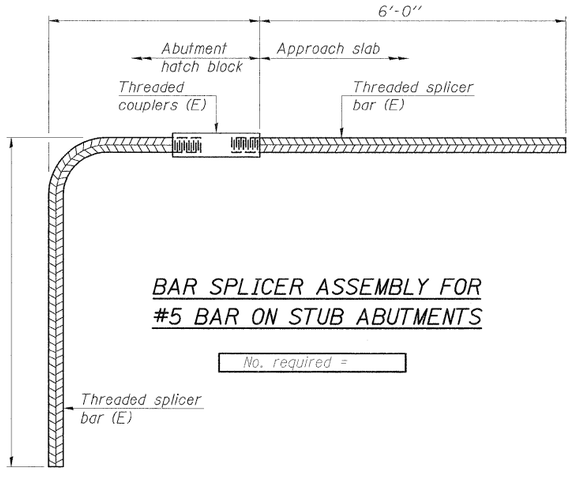
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required =



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See special provision for Mechanical Splicers.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BAR SPLICER ASSEMBLY DETAILS
IL RTE. 242 OVER UNNAMED STREAM
STATION 659+11.74
STRUCTURE NO. 033-2010

CMT
CRAWFORD MURPHY & TILLY, INC.
CONSULTING ENGINEERS
SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO
ROCKFORD, IL ■ PEORIA, IL ■ CHICAGO, IL

DESIGNED BY: CJW | DRAWN BY: GLD
CHECKED BY: WLB | DATE: 4/12/10

SHEET NO. 6
8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-4	HAMILTON	42	26
		CONTRACT NO. 78081		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

BSD-1

11-1-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS DEPARTMENT OF TRANSPORTATION
District Nine Materials

Bridge Foundation Boring Log

Sheet 1 of 2

FAP 776 (IL 242) Over Stream

Route: P 776 (IL 242 Structure Number: 033-0028 (existing) Date: 10/1/2007

Section 102B Bored By: RM

County: Hamilton Location: 5 Mi S Wayne County line Checked By: RM

Boring No 1-S
Station 659+60
Offset 9' Lt CL
Ground Surface 387.8 Ft

Surf Wat Elev: 375.9
Ground Water Elevation
when Drilling 357.8
At Completion
At: Hrs:

DEPTH	BLOWS	Qu tsf	W%	DEPTH	BLOWS	Qu tsf	W%
Asphalt, Concrete and soil				Stiff, moist to very moist, brown mottled grey, Clay to Silty Clay A7-6	5	1.5S	20
385.8				360.8	10		
Very soft, very moist, grey, Silty Clay A-6	WH			Very stiff, damp, grey and brown, Clay to Clay Loam A-6	7		
	1	0.2E	22		24	3.7S	10
383.3	1			358.3	34		
5.0 Very stiff, moist, grey mottled brown, Silty Clay to Silty Clay Loam A-6	1			30.0 Medium to dense, very moist, brown, Fine Sand 92% Sand, 5% Silt, 3% Clay	1		
	4	2.1B	23		3		23
380.8	4				8		
Stiff, moist to very moist, grey mottled brown, Silty Clay to Silty Clay Loam A-6	1				7		
	2	1.5B	24		18		
378.3	2			353.3	22		
10.0 Stiff, moist to very moist, grey mottled brown, Silty Clay A7-6	1			35.0 Dense, moist to very moist, brown, Fine Sand with Silt layers 38% Sand, 55% Silt, 7% Clay	10		
	3	1.1B	24		20		21
	3				23		
	1				9		
	3	1.4S	24		18		
373.3	5			349.3	17		
				Very stiff, moist to very moist, grey, Clay A7-6			
15.0 Stiff, moist to very moist, grey mottled brown, Clay to Silty Clay A7-6	1			40.0	1		
	3	1.2B	20		5	2.1B	23
	3				13		
370.8							
Stiff, moist to very moist, grey mottled brown, Silty Clay to Silty Clay Loam A7-6	1						
	2	1.2B	20				
	4						
368.3				343.3			
20.0 Stiff, moist to very moist, grey mottled brown, Clay to Silty Clay A7-6	1			45.0 Hard, moist, grey, Clay Loam A-4 with Sand layers	3		
	2	1.8B	21		8	5.4B	13
	4				10		
365.8							
Stiff, moist to very moist, brown mottled grey, Clay A7-6	1						
	5	1.6B	17				
	5						
363.3				338.3			
25.0	1			50.0	10		

N-Std Pentr Test: 2" OD Sampler,
140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

Sheet 2 of 2

Route: P 776 (IL 242) Date: 10/1/2007

Section: 102B

County: Hamilton

Boring No: 1-S
Station: 659+60
Offset: 9' Lt CL
Ground Surface: 387.8 Ft

DEPTH	BLOWS	Qu tsf	W%	DEPTH	BLOWS	Qu tsf	W%
Very stiff, moist, grey, Clay to Clay Loam A-6	21	3.3B	20				
	25						
335.8							
Hard, dry, grey, Sandy Clay Shale							
55.0	100/1"			80.0			
328.3							
Hard, dry, grey, Clay Shale	60.0	100/4"		85.0			
322.8	65.0	100/2"		90.0			
Bottom of hole = 64.7 feet							
Free water observed at 30.0 ft							
Elevation referenced to BM at NW wingwall = 387.4 feet							
To convert "N" values to "N60" values multiply by 1.25							
70.0				95.0			
75.0				100.0			

N-Std Pentr Test: 2" OD Sampler,
140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

BORING LOGS 1
IL RTE. 242 OVER UNNAMED STREAM
STATION 659+11.74
STRUCTURE NO. 033-2010

CMT
CRAWFORD MURPHY & TILLY, INC.
CONSULTING ENGINEERS
SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO
ROCKFORD, IL ■ PEORIA, IL ■ CHICAGO, IL
DESIGNED BY: CJW
CHECKED BY: WLB
DRAWN BY: GLD
DATE: 4/12/10

SHEET NO. 7
8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-4	HAMILTON	42	27
		CONTRACT NO. 78081		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ILLINOIS DEPARTMENT OF TRANSPORTATION
District Nine Materials

Bridge Foundation Boring Log

Sheet 1 of 2

FAP 776 (IL 242) Over Stream
Route: F 776 (IL 242 **Structure Number:** 033-0028 (existing) **Date:** 10/1/2007
Section 102B **Bored By:** RM
County: Hamilton **Location:** 5 Mi S Wayne County line **Checked By:** RM

Boring No 2-S
Station 658+77
Offset 8' Rt CL
Ground Surface 387.9 **Ft**

Surf Wat Elev: 375.9
Ground Water Elevation when Drilling 362.9
At Completion
At: **Hrs:**

DEPTH	BLOWS	Qu tsf	W%	DESCRIPTION
				Asphalt, Concrete and soil
385.9				
	1			Stiff, moist, grey mottled brown,
	2	1.7B	25	Silty Clay A-6
	3			
383.4				
5.0	WH			Medium, moist to very moist, grey,
	1	0.8B	25	Silty Clay to Silty Clay Loam A-6
	2			
380.9				
	1			Medium to stiff, moist to very
	2	1.0B	27	moist, grey, Clay to Silty Clay
	2			A-6
375.9				
	1			Stiff, moist, grey mottled brown,
	3	1.4B	24	Clay to Silty Clay A7-6
	4			
368.4				
20.0	1			Stiff, moist, brown mottled grey,
	3	1.1B	18	Clay to Silty Clay A-6
	5			
365.9				
	1			Medium, very moist, brown
	2	0.8B	18	mottled grey, Silty Clay Loam to
	3			Clay Loam A-6
363.4				
25.0	1			

DEPTH	BLOWS	Qu tsf	W%	DESCRIPTION
	4	1.2B	19	Stiff, moist, grey mottled brown,
	8			Clay to Silty Clay A7-6
360.9				
	3			Hard, damp, brown, Clay to Clay
	13	4.1B	11	Loam A-6
	19			
358.4				
30.0	3			Medium, very moist, brown,
	3		20	Fine Sand w/ clay layers
	15			
				93% Sand, 5% Silt, 2% Clay
	3			
	12			
	13			
353.4				
35.0	7			Dense, very moist, brown,
	17		22	Fine Silty Sand
	22			
				74% Sand, 21% Silt, 5% Clay
	8			
	12			
	20			
348.4				
40.0	6			Stiff, moist to very moist, grey,
	6	1.6B	24	Clay A7-6
	7			
343.4				
45.0	8			Medium to Coarse Sand and
	15			Gravel
	20			
338.4				
50.0	4			

N-Std Pentr Test: 2" OD Sampler,
140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

Sheet 2 of 2

Route: ? 776 (IL 242) **Date:** 10/1/2007
Section: 102B
County: Hamilton

Boring No: 2-S
Station: 658+77
Offset: 8' Rt CL
Ground Surface: 387.9 **Ft**

DEPTH	BLOWS	Qu tsf	W%	DESCRIPTION
	7	3.3B	26	Very stiff, moist, grey, Silty Clay
	10			A-6
333.4				
55.0	6			Very stiff, moist, grey, Clay Loam
332.4	14			A-4
331.9	70			Hard, dry, grey, Clay Shale

Bottom of hole = 56.0 feet

Free water observed at 25.0 ft

Elevation referenced to BM at NW wingwall = 387.4 feet

To convert "N" values to "N60" values multiply by 1.25

DEPTH	BLOWS	Qu tsf	W%
80.0			
85.0			
90.0			
95.0			
100.0			

N-Std Pentr Test: 2" OD Sampler,
140# Hammer, 30" Fall (Type Fail. B-Bulge S-Shear E-Estimated P-Penetrometer)

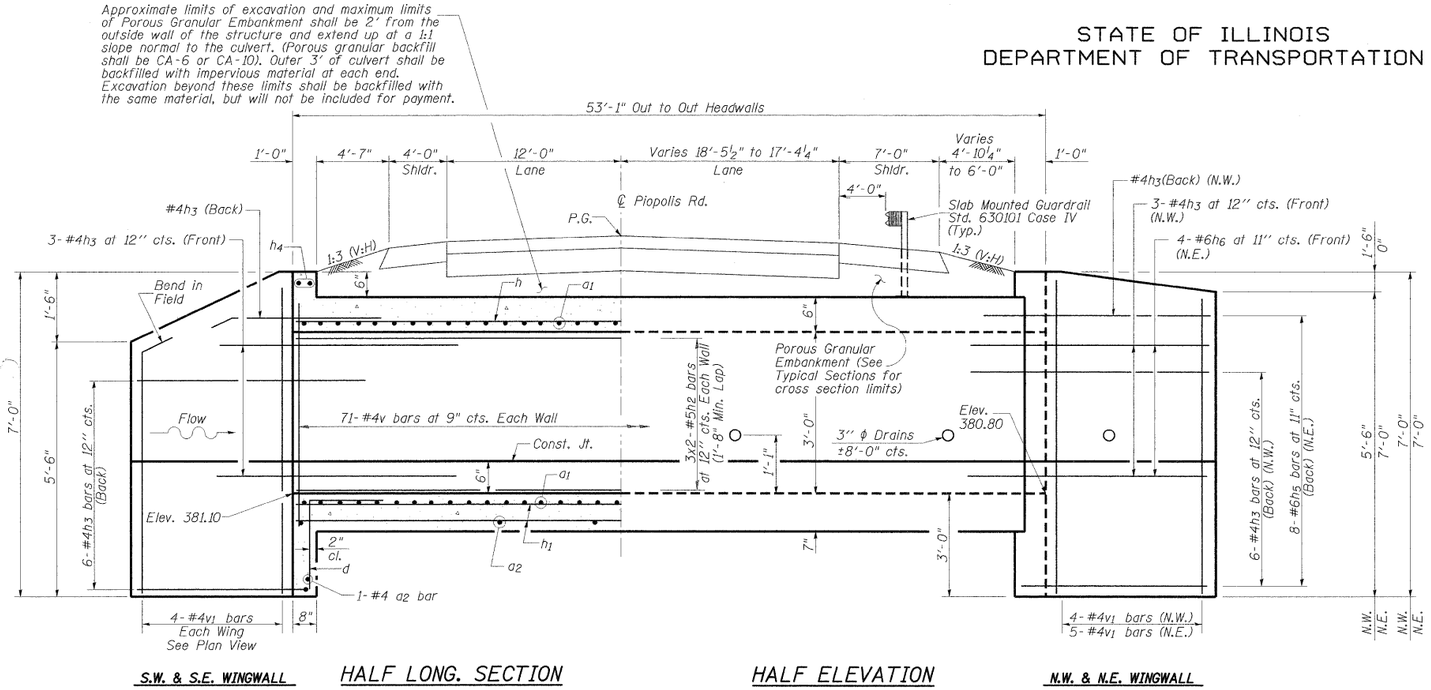
BORING LOGS 2
IL RTE. 242 OVER UNNAMED STREAM
STATION 659+11.74
STRUCTURE NO. 033-2010

CMT
CRAWFORD MURPHY & TILLY, INC.
CONSULTING ENGINEERS
SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO
ROCKFORD, IL ■ PEORIA, IL ■ CHICAGO, IL
DESIGNED BY: CJW | DRAWN BY: GLD
CHECKED BY: WLB | DATE: 4/12/10

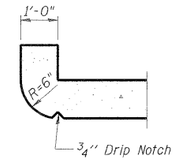
SHEET NO. 8
8 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-4	HAMILTON	42	28
		CONTRACT NO. 78081		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



S.W. & S.E. WINGWALL — HALF LONG. SECTION — HALF ELEVATION — N.W. & N.E. WINGWALL



SECTION THRU HEADWALL
(Up Stream End Only)

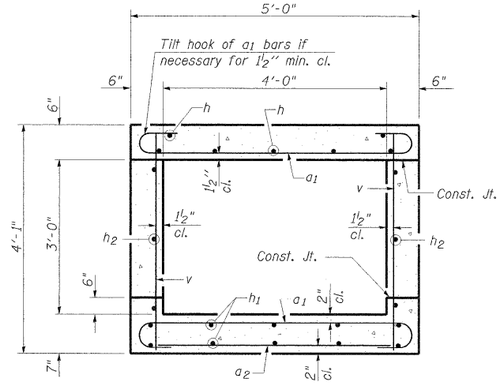
LOADING HS 20-44
Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES
FIELD UNITS

f'c = 3,500 psi

fy = 60,000 psi (Reinforcement)

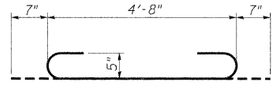
DESIGN SPECIFICATIONS
AASHTO Standard Specifications for Highway Bridges 2002



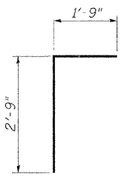
SECTION THRU BARREL

BILL OF MATERIAL

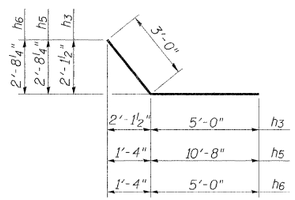
Bar	No.	Size	Length	Shape
a1	196	#5	5'-10"	
a2	29	#4	4'-8"	
d	8	#4	4'-6"	
h	14	#5	27'-3"	
h1	20	#4	27'-1"	
h2	12	#5	27'-3"	
h3	30	#4	8'-0"	
h4	4	#6	4'-0"	
h5	8	#6	13'-8"	
h6	4	#6	8'-0"	
v	146	#4	3'-9"	
v1	17	#4	6'-8"	
Porous Granular Embankment		Cu. Yd.	100	
Concrete Box Culverts		Cu. Yd.	21.8	
Reinforcement Bars		Pound	3250	



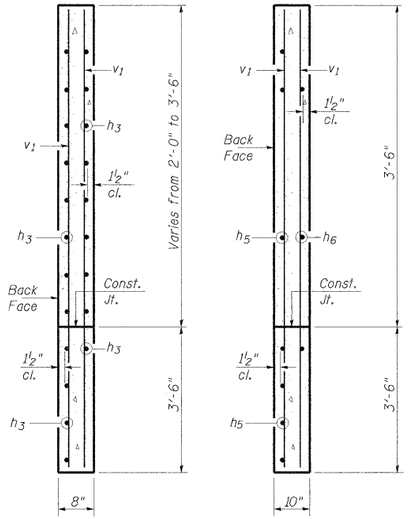
BAR a1



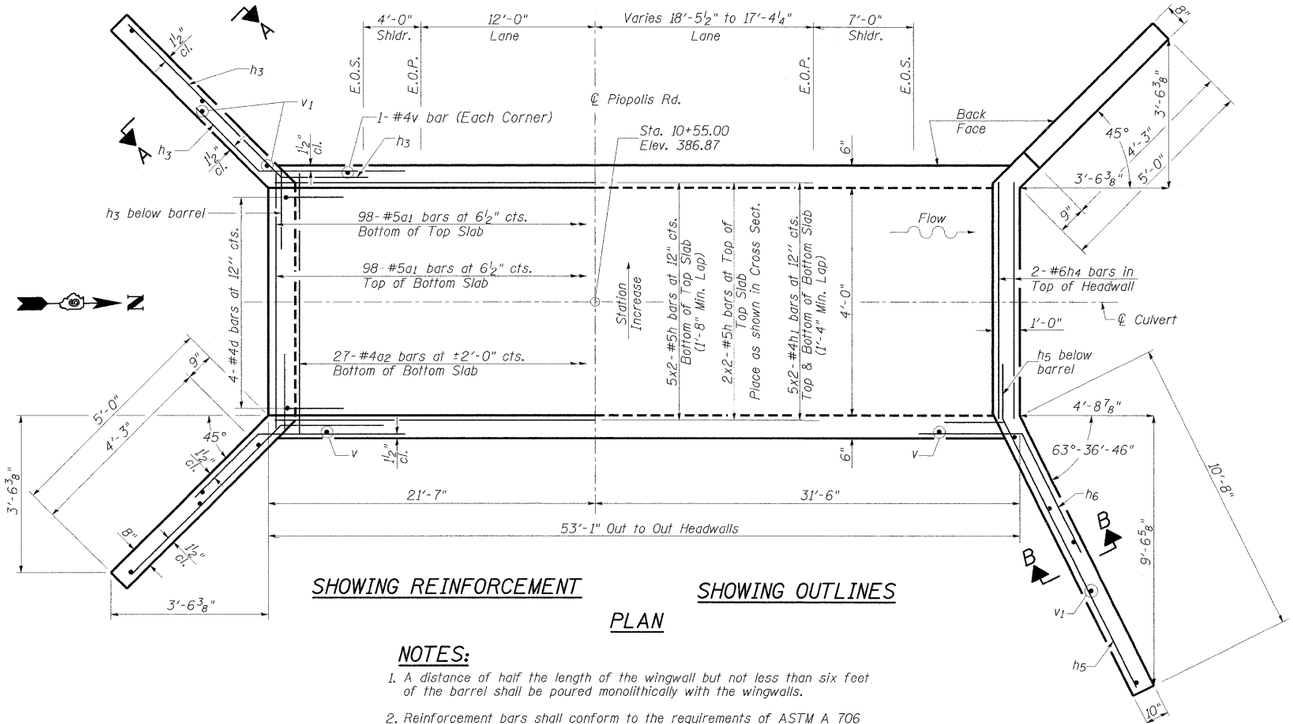
BAR d



BAR h3, h5 & h6



SECTION A-A — SECTION B-B



SHOWING REINFORCEMENT — SHOWING OUTLINES

PLAN

NOTES:

1. A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.
2. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
3. Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.
4. Precast culvert alternate is not allowed.

BOX CULVERT DETAILS
PIOPOLIS ROAD (C.H. 20) OVER UNNAMED STREAM
STATION 10+55.00

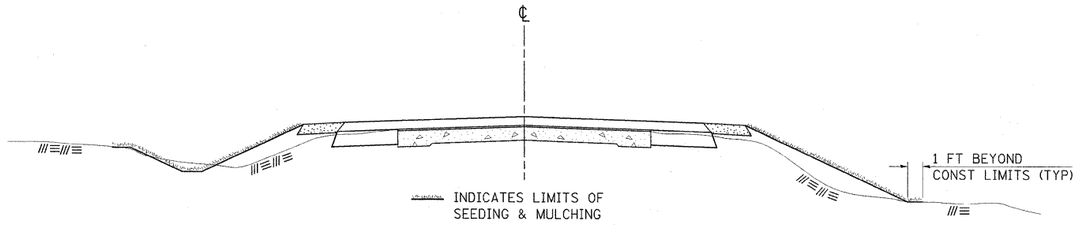
CMT — CRAWFORD MURPHY & TILLY, INC. CONSULTING ENGINEERS
SPRINGFIELD, IL ■ AURORA, IL ■ ST. LOUIS, MO
ROCKFORD, IL ■ PEORIA, IL ■ CHICAGO, IL

DESIGNED BY: CJW | DRAWN BY: GLD
CHECKED BY: WLB | DATE: 4/12/10

SHEET NO. 1
1 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-4	HAMILTON	42	29
		CONTRACT NO. 78081		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SEEDING & MULCHING



GENERAL NOTES

IN GENERAL, ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION OPERATIONS SHALL BE SEEDED AND MULCHED UPON COMPLETION OF ALL GRADING OPERATIONS.

FERTILIZER NUTRIENTS AND LIMESTONE SHALL BE APPLIED TO ALL SEEDED AREAS.

THE RATES OF APPLICATION OF FERTILIZER, MULCH AND LIMESTONE SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS.

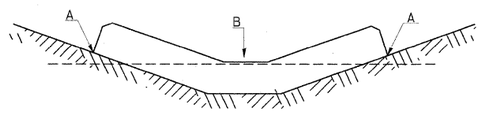
SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS SHALL GOVERN THIS WORK EXCEPT AS SPECIFIED HEREIN OR AS NOTED IN THE SPECIAL PROVISIONS.

STD. 9-12

REVISIONS	
REDRAWN	2-15-89
REVISED	8-15-94
REVISED	6-3-99
REVISED	3-27-08

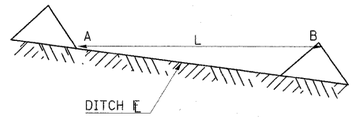
TEMPORARY DITCH CHECKS

PLACEMENT OF TEMPORARY DITCH CHECK IN DRAINAGE WAY



POINTS A SHOULD BE HIGHER THAN POINT B

SPACING BETWEEN TEMPORARY DITCH CHECKS



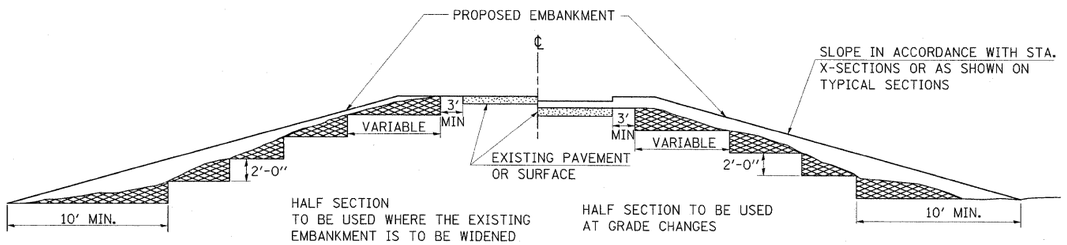
L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION

B = THE LOW POINT IN CENTER OF CHECK

STD. 9-108

REVISIONS	
DRAWN	9-01-99
REVISED	10-3-01
RESIZED	5-8-08
REVISED	05-04-10

TYPICAL CROSS SECTION SHOWING STEP CONSTRUCTION ON EXISTING FILL



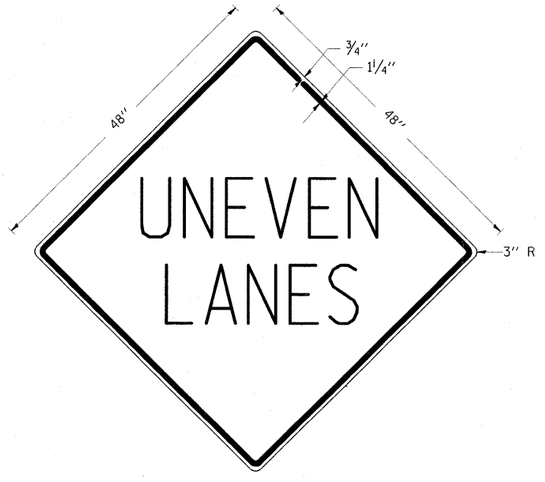
MATERIAL TO BE REMOVED AND REPLACED IN THE EMBANKMENT IN ACCORDANCE WITH ART. 205.04 OF THE STANDARD SPECIFICATION. COST TO BE INCLUDED IN THE VARIOUS ITEMS OF EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED BECAUSE OF THIS WORK.

STD. 9-16

REVISIONS	
REDRAWN	2-15-89
REVISED	8-15-94
CHECKED	6-3-99
RESIZED	5-7-08

UNEVEN LANES SIGN

W8-11 (48" x 48")



COLORS:
LEGEND AND BORDER - BLACK NON-REFLECTORIZED
BACKGROUND - ORANGE REFLECTORIZED

NOTE: PRIOR TO ALLOWING TRAFFIC ON ANY PORTION OF THE ROADWAY THAT HAS BEEN COLDMILLED OR BEFORE RESURFACING OPERATIONS BEGIN, THE CONTRACTOR SHALL HAVE ERECTED "UNEVEN PAVEMENT" SIGNS THAT CONFORM TO THE ABOVE DETAILS. A MINIMUM OF ONE SIGN AT EACH END OF THE IMPROVEMENT WILL BE REQUIRED. THE CONTRACTOR SHALL MAINTAIN THE "UNEVEN PAVEMENT" SIGNS UNTIL THE RESURFACING OPERATIONS ARE COMPLETED.

IF AT ANY TIME THE SIGNS ARE IN PLACE BUT NOT APPLICABLE, THEY SHALL BE TURNED FROM THE VIEW OF MOTORISTS OR COVERED AS DIRECTED BY THE ENGINEER.

THE COST OF FURNISHING, ERECTING, MAINTAINING, AND REMOVING THE REQUIRED SIGNS SHALL BE INCLUDED IN THE CONTRACT.

STD. 9-41

REVISIONS	
DRAWN	2-15-89
REVISED	4-6-93
REDSIGNED	7-23-04
RESIZED	5-8-08

FILE NAME = ...\sheets\D978081-sht-Detail.dgn	USER NAME = Reb Heady	DESIGNED - BMB	REVISED -
		DRAWN - RAH	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED - JMM	REVISED -
	PLOT DATE = 5/21/2010	DATE - APRIL 2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT DETAILS
F.A.P. ROUTE 776 (IL. RTE. 242)

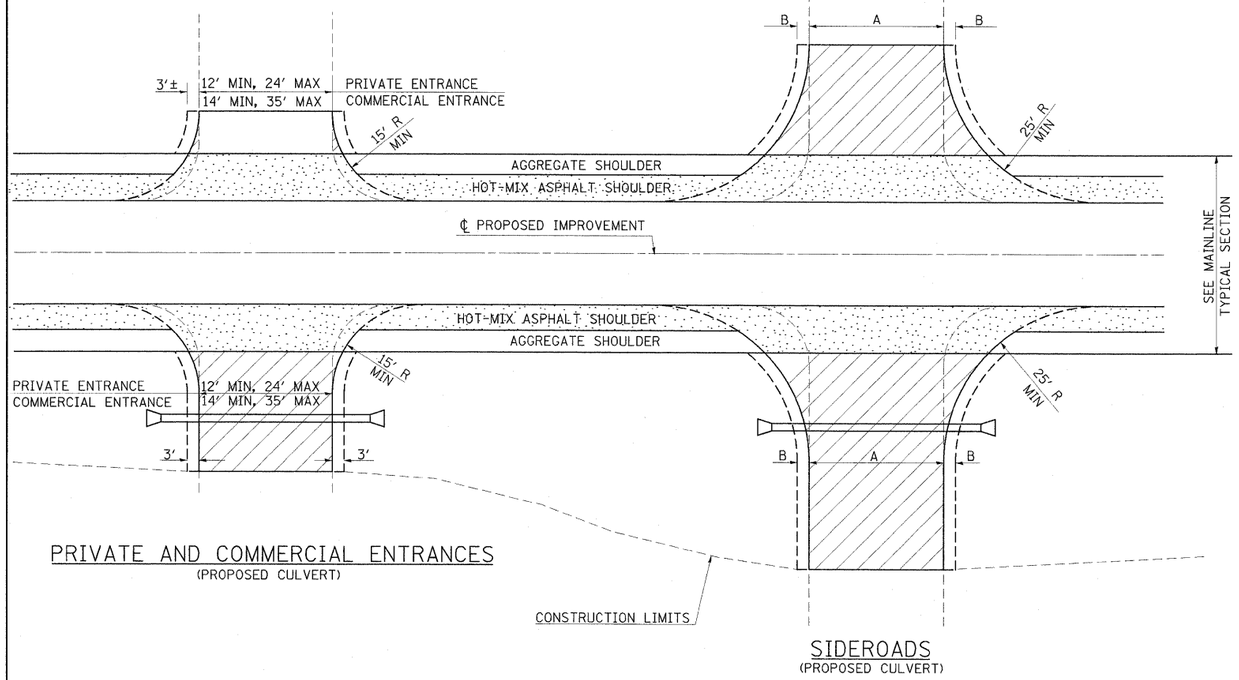
SCALE: N/A | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-4	HAMILTON	42	30
		CONTRACT NO. 78081		

FED. ROAD DIST. NO. 7 | ILLINOIS | FED. AID PROJECT

RURAL SIDE APPROACH DETAILS

PRIVATE AND COMMERCIAL ENTRANCES



PRIVATE AND COMMERCIAL ENTRANCES
(PROPOSED CULVERT)

SIDEROADS

SIDEROADS
(PROPOSED CULVERT)

SIDEROAD DIMENSIONS (MIN.)

ADT	A (FT)	B (FT)
0 TO 250	18'	2'
250 TO 400	20'	2'
GREATER THAN 400	22'	4'

PIOPOLIS ROAD ADT = 325

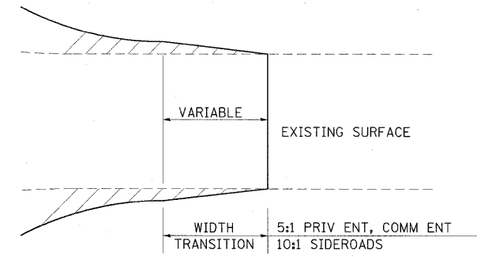
FIELD ENTRANCE TREATMENT

CONSTRUCT MAINLINE HOT-MIX ASPHALT AND AGGREGATE SHOULDERS THROUGH FIELD ENTRANCES.

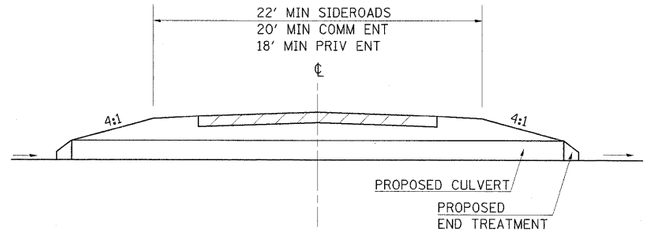
IF A PIPE IS REQUIRED, PROVIDE A 22' WIDE EARTH EMBANKMENT WITH 15' RADII AT THE INTERSECTION.

WIDTH TRANSITION DETAIL TO EXISTING

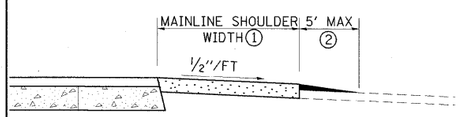
(IF APPLICABLE)

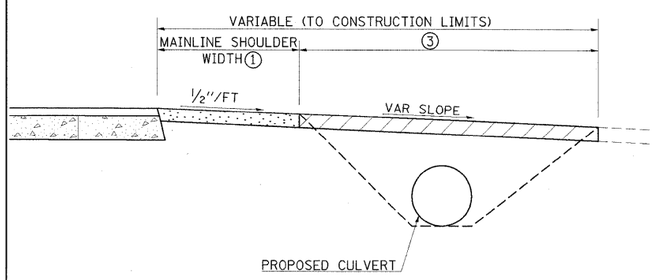


DETAIL FOR CALCULATING CULVERT LENGTH

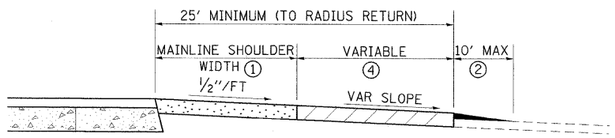


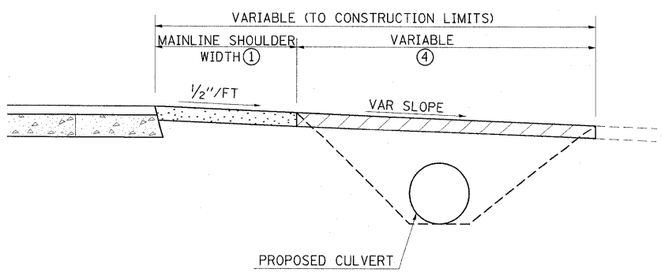
PRIVATE AND COMMERCIAL ENTRANCES





SIDEROADS





LEGEND

① CONSTRUCT HOT-MIX ASPHALT SHOULDER "FULL SHOULDER WIDTH" THROUGH ENTRANCE/INTERSECTION UNLESS OTHERWISE SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

② IF REQUIRED, AGGREGATE TAPER FOR EXISTING GRAVEL SURFACE; HOT-MIX ASPHALT TAPER FOR EXISTING HIGHER TYPE SURFACES.

③ 6" AGGREGATE SURFACE COURSE FOR EXISTING GRAVEL SURFACE; 2" HOT-MIX ASPHALT RESURFACING ON 4" AGGREGATE BASE COURSE FOR EXISTING HOT-MIX ASPHALT SURFACE; PCC DRIVEWAY PAVEMENT (6" - PE; 7" - CE) FOR EXISTING CONCRETE SURFACE.

④ 3" MINIMUM HOT-MIX ASPHALT RESURFACING ON 12" MINIMUM AGGREGATE BASE COURSE FOR EXISTING GRAVEL SURFACE OR OIL & CHIP SURFACE; MATCH EXISTING FOR EXISTING HIGHER TYPE SURFACES.

GENERAL NOTES

1. ENTRANCE LOCATIONS ARE TO COMPLY WITH IDOT'S POLICY "ACCESS TO STATE HIGHWAYS".
2. IN GENERAL, RELOCATED PRIVATE ENTRANCES ARE TO HAVE A 16' WIDE SURFACE WITH 3' WIDE SHOULDERS (22' WIDE EMBANKMENT).
3. SEE PLANS FOR PROPOSED PROFILE GRADES AT ENTRANCES/SIDEROADS. THE DESIRABLE MAXIMUM PROFILE GRADE FOR ENTRANCES ARE 12% FOR PE; 10% FOR CE.
4. ENTRANCE PIPE CULVERTS ARE TO BE A MINIMUM 15" DIAMETER AND NORMALLY REPLACED IN KIND; SIDEROAD PIPE CULVERTS ARE GENERALLY TO BE CONCRETE (18" MINIMUM DIAMETER).
5. THE INTERSECTION RADII OF SIDEROADS CONSTRUCTED TO FULL POLICY STANDARDS SHOULD COMPLY WITH THAT NOTED IN THE BUREAU OF LOCAL ROADS ADMINISTRATIVE POLICIES MANUAL (5-8-13).

REVISIONS

DRAWN	3-15-91
REVISED	10-02-91
REVISED	5-15-92
REVISED	1-20-00
REVISED	01-11-07
RESIZED	5-7-08

STD. 9-83

FILE NAME = ...\sheets\D978081-sht-Detail.dgn	USER NAME = Rob Heady	DESIGNED - BMB	REVISED -
		DRAWN - RAH	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED - JMM	REVISED -
	PLOT DATE = 5/21/2010	DATE - APRIL 2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT DETAILS
F.A.P. ROUTE 776 (IL. RTE. 242)

SCALE: N/A | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-4	HAMILTON	42	31
		CONTRACT NO. 78081		
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

395 390 385 380 375

EX ROW

1:4

387.64

-4.00 %

387.80

EXIST. %

388.09

EXIST %

387.80

-4.00 %

387.50

EX ROW

383.61

PR ROW

TEMP. ESMT.

	STAGE 1	STAGE 2	
EXCAVATION =	1.7	5.9	SF
EMBANKMENT =	2.9	23.8	SF

655 + 97.00

395 390 385 380 375

EX ROW

387.84

388.12

387.83

-4.00 %

387.51

EX ROW

6" AGGREGATE FIELD ENTRANCE

-8.00 %

PR ROW

384.08

TEMP. ESMT.

	STAGE 1	STAGE 2	
EXCAVATION =	0.0	2.6	SF
EMBANKMENT =	0.0	58.8	SF

655 + 75.00
F.E., RT.

390 385 380 375

EX ROW

387.88

388.14

387.85

1:4

EX ROW

1:3

PR ROW

Spl.D.

383.02

SCALE 5' 5'

TEMP. ESMT.

	STAGE 1	STAGE 2	
EXCAVATION =	0.0	5.9	SF
EMBANKMENT =	0.0	23.8	SF

655 + 50.00

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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

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

FILE NAME = L:\IDOT\Ø706610\W0_5\Draw\Sheets\D978081-sht-xsht.dgn

USER NAME = OpenH&B Springfield
PLOT SCALE = 5.2000 ' / IN.
PLOT DATE = 5/21/2010

DESIGNED - BMB
DRAWN - MJO
CHECKED - JMM
DATE - APRIL 2010

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS F.A.P. ROUTE 776 (IL ROUTE 242)

SCALE: | SHEET NO. OF SHEETS | STA. 655+50.00 TO STA. 655+97.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-4	HAMILTON	42	32
		CONTRACT NO. 78081		
	ILLINOIS FED. AID PROJECT			

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

395 390 385 380 375

PR ROW | EX ROW | 387.68 | -4.00 % | 387.97 | 388.24 | 387.99 | -4.00 % | 387.71 | EX ROW | PR ROW | 1:3.4 | 1:3 | 1:3 | T | Spl.D. 382.60

	STAGE 1	STAGE 2	
EXCAVATION =	1.4	7.2	SF
EMBANKMENT =	9.6	10.87	SF

657 + 00.00

395 390 385 380 375

PR ROW | EX ROW | 387.83 | -4.00 % | 387.99 | 388.25 | 387.95 | -4.00 % | 387.67 | EX ROW | PR ROW | 1:4 | 1:3 | 1:3 | T | Spl.D. 382.90

	STAGE 1	STAGE 2	
EXCAVATION =	1.1	4.6	SF
EMBANKMENT =	1.8	10.4	SF

656 + 50.00

SCALE 5′ 5′

395 390 385 380 375

EX ROW | 387.65 | -4.00 % | 387.81 | 388.10 | 387.82 | -4.00 % | 387.49 | EX ROW | PR ROW | 1:4 | 1:4 | 1:3 | T | Spl.D. 383.20

TEMP. ESMT.

656 + 00.00

	STAGE 1	STAGE 2	
EXCAVATION =	1.4	4.6	SF
EMBANKMENT =	2.8	20.5	SF

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

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

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

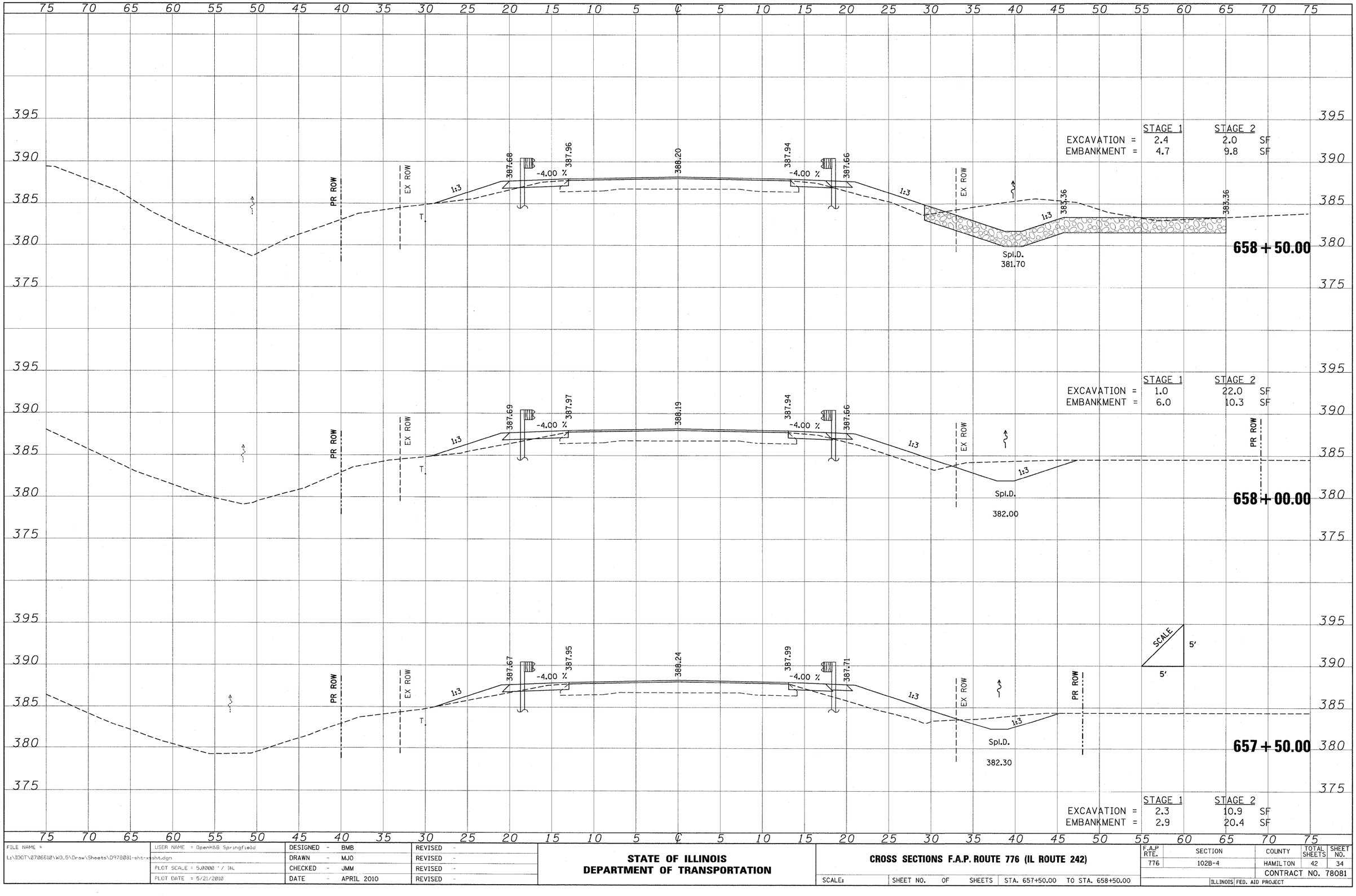
FILE NAME = L:\IDOT\0706610\WD_5\Draw\Sheets\D978081-sht-xsht.dgn	USER NAME = OpenH&B Springfield	DESIGNED - BMB	REVISED -
		DRAWN - MJO	REVISED -
	PLOT SCALE = 5.0000 ' / IN.	CHECKED - JMM	REVISED -
	PLOT DATE = 5/21/2010	DATE - APRIL 2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS F.A.P. ROUTE 776 (IL ROUTE 242)

SCALE: | SHEET NO. OF SHEETS | STA. 656+00.00 TO STA. 657+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-4	HAMILTON	42	33
		CONTRACT NO. 78081		
	ILLINOIS FED. AID PROJECT			



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

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

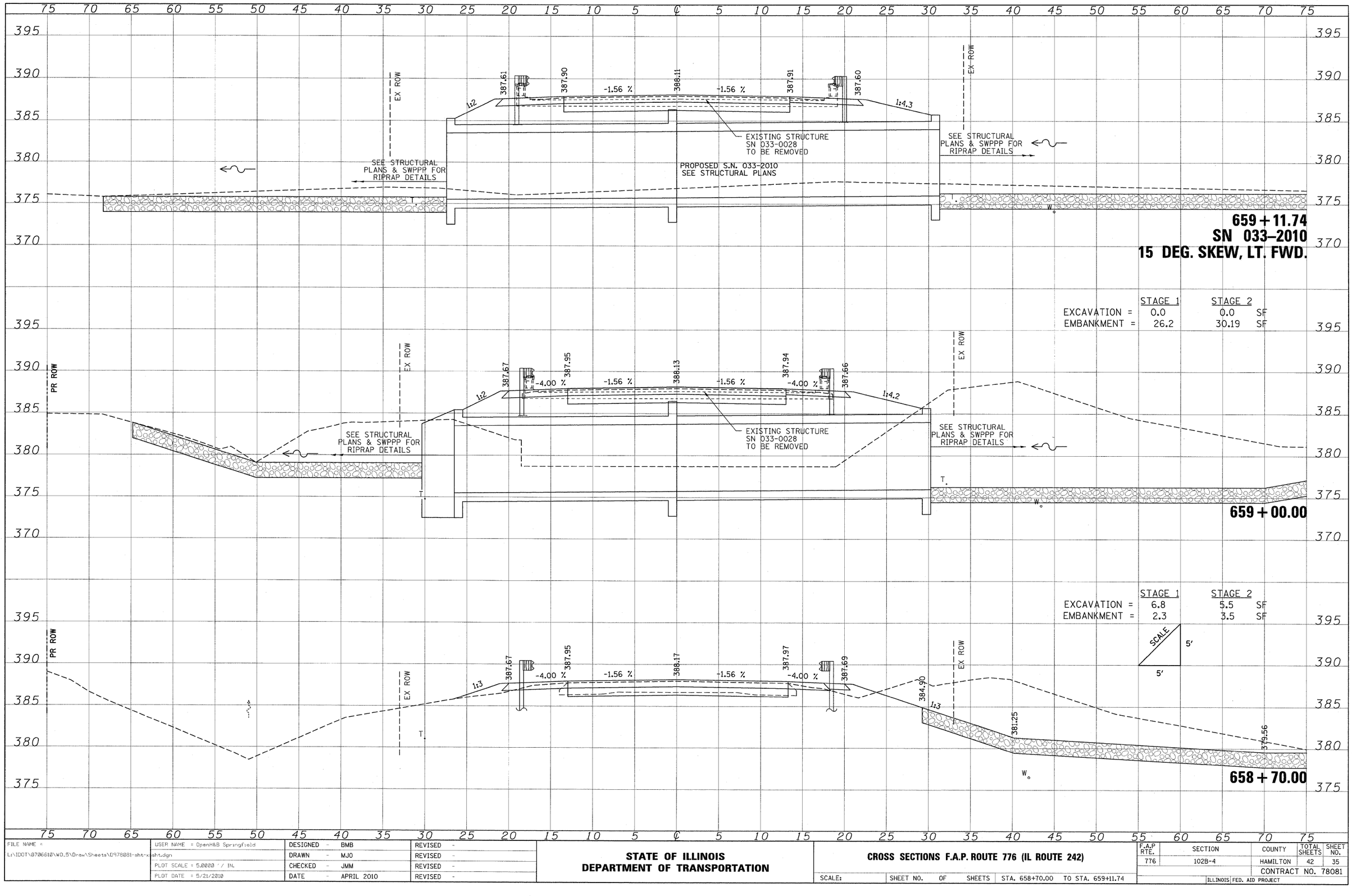
FILE NAME = L:\IDOT\0706610\W0_5\Draw\Sheets\D978081-sht-xsht.dgn	USER NAME = OpenH&B Springfield	DESIGNED - BMB	REVISED -
		DRAWN - MJO	REVISED -
	PLOT SCALE = 5.0000 ' / IN.	CHECKED - JMM	REVISED -
	PLOT DATE = 5/21/2010	DATE - APRIL 2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS F.A.P. ROUTE 776 (IL ROUTE 242)

SCALE: | SHEET NO. OF SHEETS | STA. 657+50.00 TO STA. 658+50.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-4	HAMILTON	42	34
		CONTRACT NO. 78081		
		ILLINOIS FED. AID PROJECT		



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

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

FILE NAME = L:\IDOT\070610\W0.5\Draw\Sheets\D97808I-sht-xsht.dgn	USER NAME = OpenH&B Springfield	DESIGNED - BMB	REVISED -
		DRAWN - MJO	REVISED -
	PLOT SCALE = 5.0000 ' / IN.	CHECKED - JMM	REVISED -
	PLOT DATE = 5/21/2010	DATE - APRIL 2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS F.A.P. ROUTE 776 (IL ROUTE 242)

SCALE: | SHEET NO. OF SHEETS | STA. 658+70.00 TO STA. 659+11.74

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-4	HAMILTON	42	35
		CONTRACT NO. 78081		
		ILLINOIS FED. AID PROJECT		

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

395 390 385 380

TEMP. ESMT.

6" AGGREGATE FIELD ENTRANCE

EX ROW

385.17 -8.00 % 387.53 -4.00 % 387.85 388.09 387.87 387.68 387.32 387.10

SEE PIOPOLIS RD
CROSS SECTIONS FOR
PROPOSED GRADING

	STAGE 1	STAGE 2	
EXCAVATION =	4.3	1.3	SF
EMBANKMENT =	8.0	37.8	SF

659 + 90.05
F.E., LT.

TEMP. ESMT.

EX ROW

1:3 387.54 -4.00 % 387.86 388.07 387.86

SEE INTERSECTION
DETAILS FOR PIOPOLIS RD
PAVEMENT GRADING

659 + 62.96
℄ PIOPOLIS RD.
(C.H. 20)

PR ROW

EX ROW

1:3 387.53 -4.00 % 387.86 -1.56 % 388.06 -1.56 % 387.86

SEE INTERSECTION
DETAILS FOR PIOPOLIS RD
PAVEMENT GRADING

	STAGE 1	STAGE 2	
EXCAVATION =	8.1	4.3	SF
EMBANKMENT =	0.5	0.0	SF

659 + 53.48

PR ROW

EX ROW

1:3 387.53 -4.00 % 387.85 -1.56 % 388.06 -1.56 % 387.86

SEE INTERSECTION
DETAILS FOR PIOPOLIS RD
PAVEMENT GRADING

	STAGE 1	STAGE 2	
EXCAVATION =	8.2	4.4	SF
EMBANKMENT =	7.0	0.0	SF

SCALE 5′ 5′

659 + 50.00

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

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

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

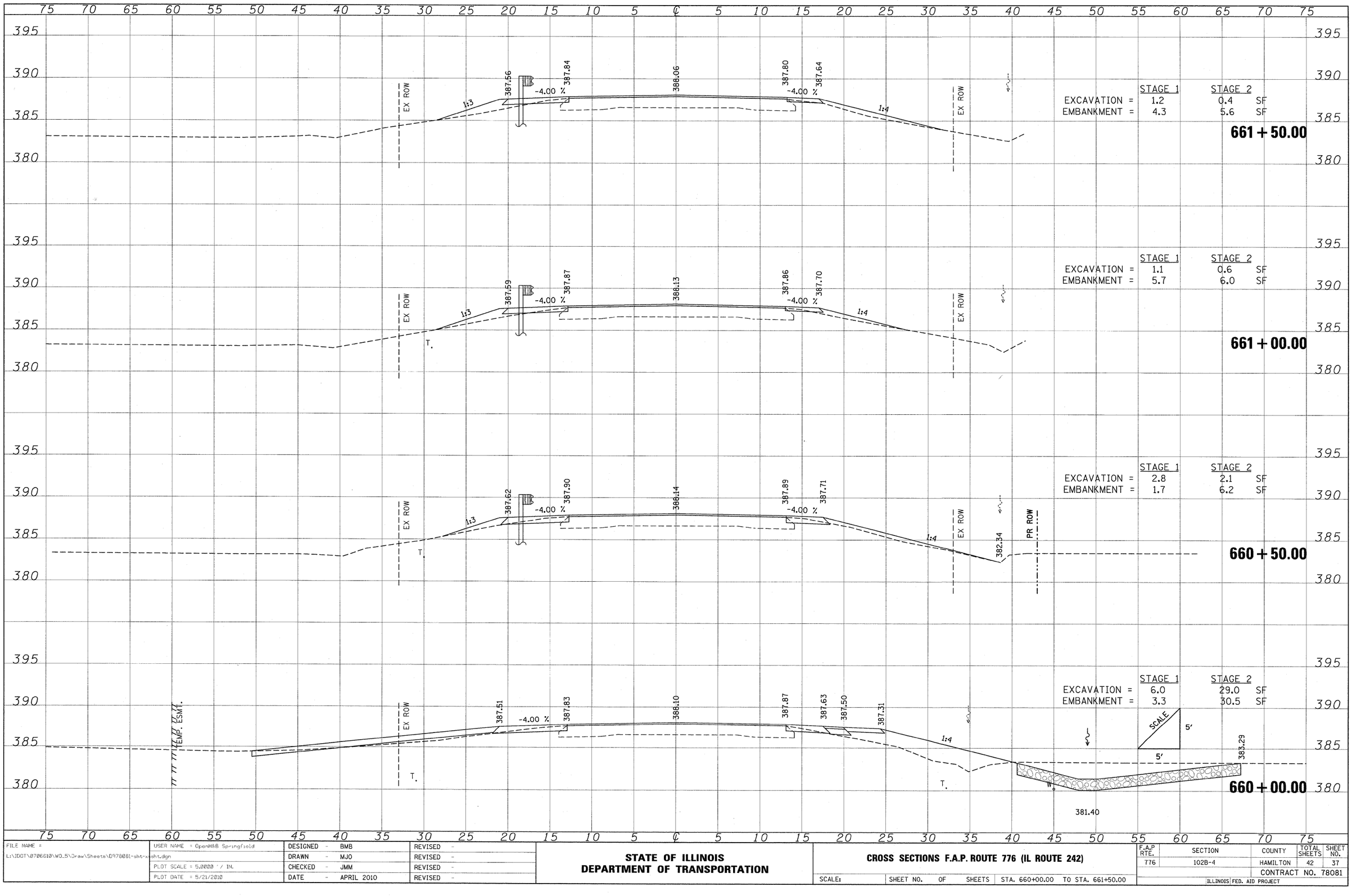
FILE NAME = L:\IDOT\070610\K0.5\Draw\Sheets\D978081-sht-xsht.dgn	USER NAME = OpenM&B Springfield	DESIGNED - BMB	REVISED -
		DRAWN - MJO	REVISED -
	PLOT SCALE = 5.0000 ' / IN.	CHECKED - JMM	REVISED -
	PLOT DATE = 5/21/2010	DATE - APRIL 2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS F.A.P. ROUTE 776 (IL ROUTE 242)

SCALE: | SHEET NO. OF SHEETS | STA. 659+50.00 TO STA. 659+90.05

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-4	HAMILTON	42	36
		CONTRACT NO. 78081		
		ILLINOIS FED. AID PROJECT		



FILE NAME = L:\IDOT\078681\WD_5\Draw\Sheets\D978081-sht-xsht.dgn	USER NAME = OpenH&B Springfield	DESIGNED - BMB	REVISED -
		DRAWN - MJO	REVISED -
	PLOT SCALE = 5.2020 ' / IN.	CHECKED - JMM	REVISED -
	PLOT DATE = 5/21/2010	DATE - APRIL 2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

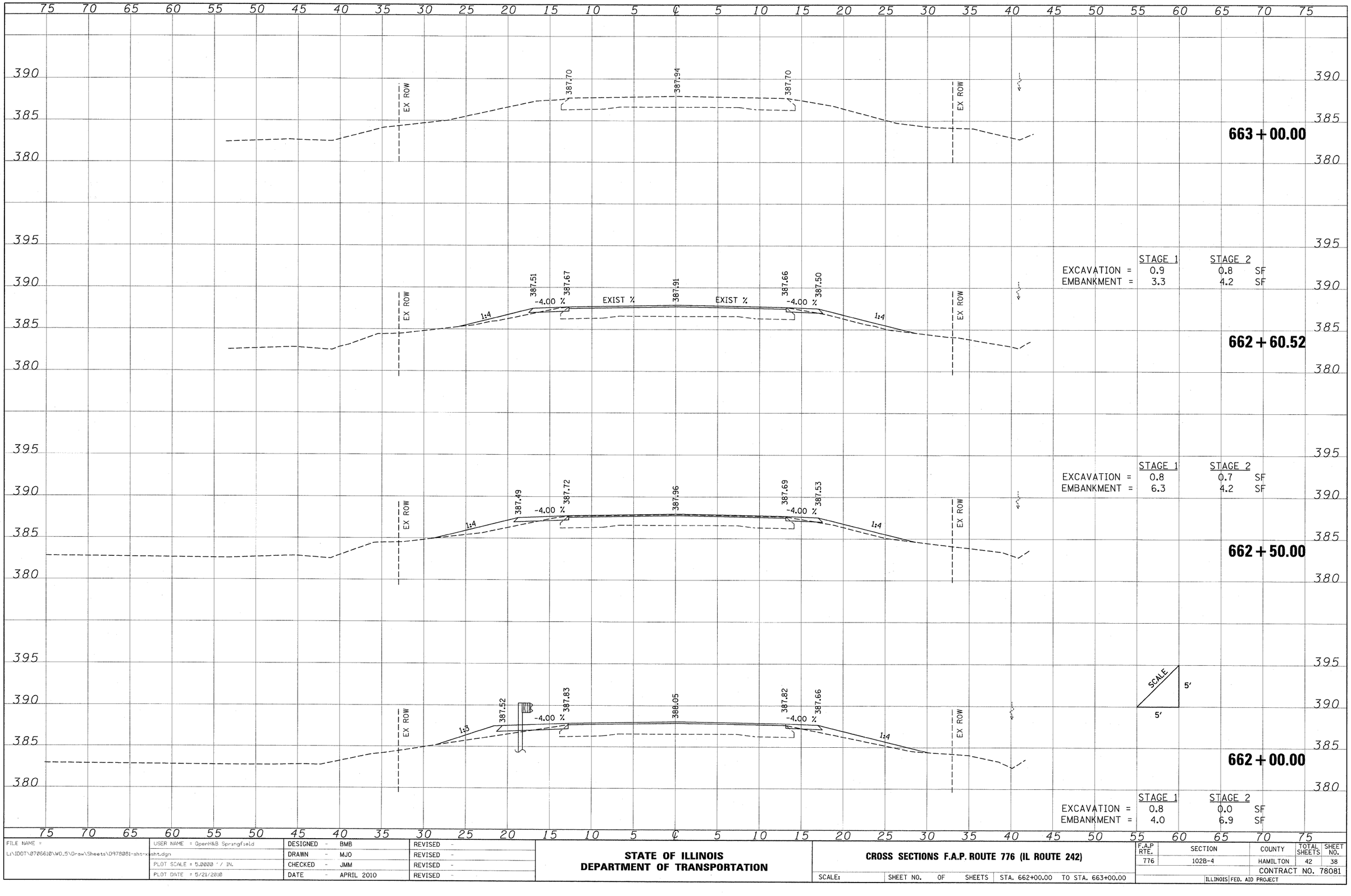
CROSS SECTIONS F.A.P. ROUTE 776 (IL ROUTE 242)

SCALE: | SHEET NO. OF SHEETS | STA. 660+00.00 TO STA. 661+50.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-4	HAMILTON	42	37
		CONTRACT NO. 78081		
ILLINOIS	FED. AID PROJECT			

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

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



	STAGE 1	STAGE 2	
EXCAVATION =	0.9	0.8	SF
EMBANKMENT =	3.3	4.2	SF

	STAGE 1	STAGE 2	
EXCAVATION =	0.8	0.7	SF
EMBANKMENT =	6.3	4.2	SF

	STAGE 1	STAGE 2	
EXCAVATION =	0.8	0.0	SF
EMBANKMENT =	4.0	6.9	SF

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

FILE NAME = L:\IDOT\070610\WO_5\Draw\Sheets\D978081-sht-xsht.dgn	USER NAME = OpenH&B Springfield	DESIGNED - BMB	REVISED -
		DRAWN - MJO	REVISED -
	PLOT SCALE = 5.0000 ' / IN.	CHECKED - JMM	REVISED -
	PLOT DATE = 5/21/2010	DATE - APRIL 2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS F.A.P. ROUTE 776 (IL ROUTE 242)

SCALE: | SHEET NO. OF SHEETS | STA. 662+00.00 TO STA. 663+00.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-4	HAMILTON	42	38
		CONTRACT NO. 78081		
	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

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 ℄ 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

390
385
380

EX ROW
387.68
387.91
387.66
EX ROW

SCALE
5'
5'

663 + 50.00

FILE NAME = L:\IDOT\07066I0\WO.5\Draw\Sheets\D978081-sht-xsht.dgn	USER NAME = OpenH&B Springfield	DESIGNED - BMB	REVISED -
		DRAWN - MJO	REVISED -
	PLOT SCALE = 5.0000 ' / IN.	CHECKED - JMM	REVISED -
	PLOT DATE = 5/21/2010	DATE - APRIL 2010	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS F.A.P. ROUTE 776 (IL ROUTE 242)

SCALE: | SHEET NO. OF SHEETS | STA. 663+50.00 TO STA. 663+50.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-4	HAMILTON	42	39
		CONTRACT NO. 78081		
		ILLINOIS FED. AID PROJECT		

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

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

75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75

395 390 385 380 375 370

TEMP. ESMT.

EX ROW

383.29

381.10

386.44 386.60 -2.20 % 386.87 -2.32 % 386.59 386.45 386.15

EX ROW

PROPOSED 4'(H) x 3'(V) R.C.B.C.
SEE STRUCTURAL PLANS FOR DETAILS

1:2

376.25

10 + 55.00

STAGE 2
EXCAVATION = 34.0 SF
EMBANKMENT = 125.1 SF

TEMP. ESMT.

EX ROW

1:4.1

1:3

Spl.D.

381.10

386.57 386.73 386.75 -1.95 % 386.99 -1.30 % 386.83 386.70 386.41

EX ROW

1:2

376.25

10 + 50.00

STAGE 2
EXCAVATION = 4.9 SF
EMBANKMENT = 159.3 SF

SCALE 5' 5'

SEE IL 242
CROSS SECTIONS FOR
PROPOSED GRADING

387.30 387.30 387.34 387.48 -0.83 % 387.58 0.33 % 387.62 387.65 387.63 387.63

SEE IL 242
CROSS SECTIONS FOR
PROPOSED GRADING

PROPOSED 2 - 15' x 8'
S.N. 033-2010

10 + 25.00

FILE NAME = I:\idot\0706610\wc_5\draw\sheets\D97808!-sht-xs-ht-PIOPOLIS.dgn	USER NAME = OpenH88 Springfield	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 5.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 5/21/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

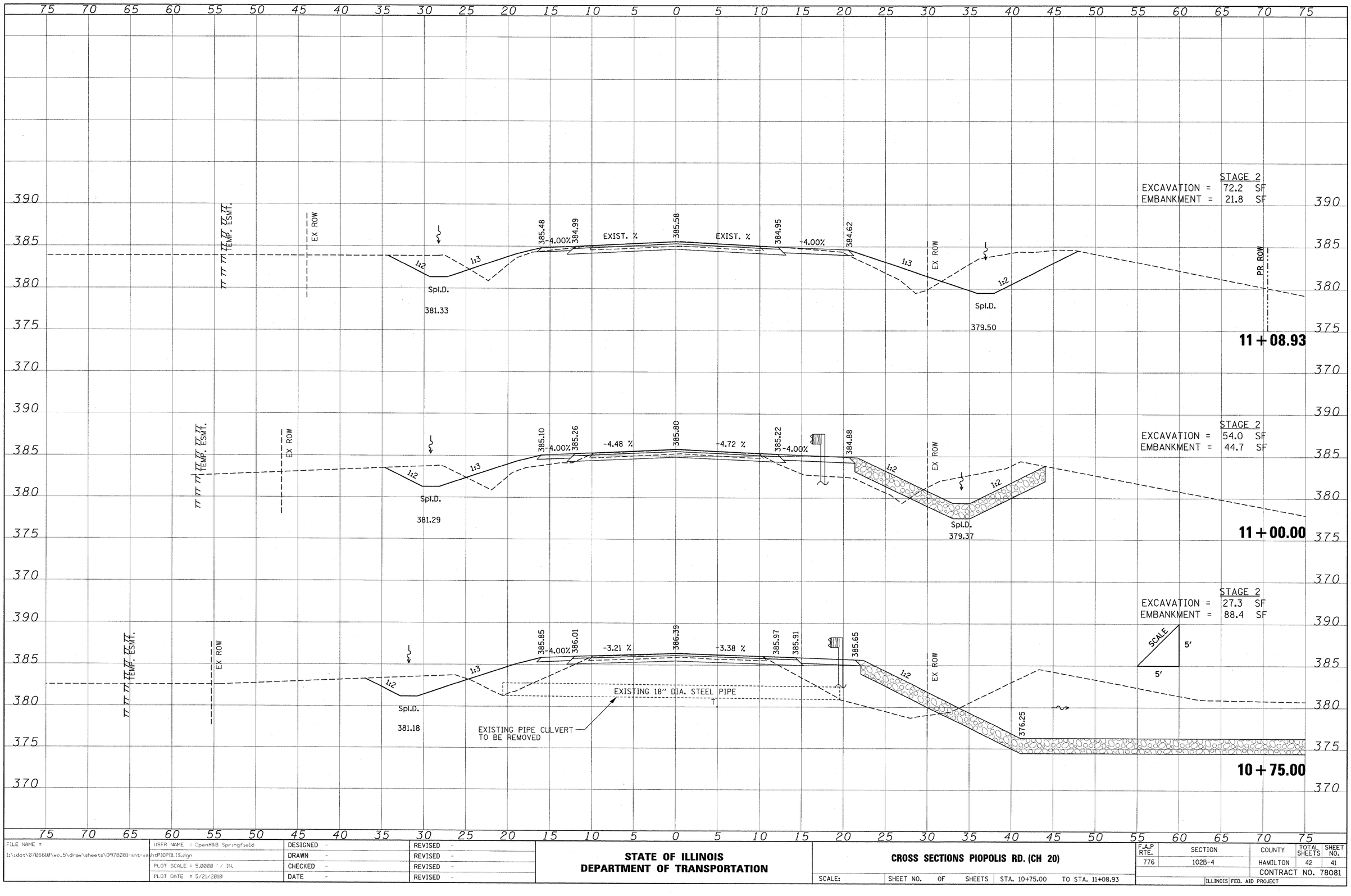
CROSS SECTIONS PIOPOLIS RD. (CH 20)

SCALE: | SHEET NO. OF SHEETS | STA. 10+25.00 | TO STA. 10+55.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-4	HAMILTON	42	40
		CONTRACT NO. 78081		
		ILLINOIS FED. AID PROJECT		

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

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



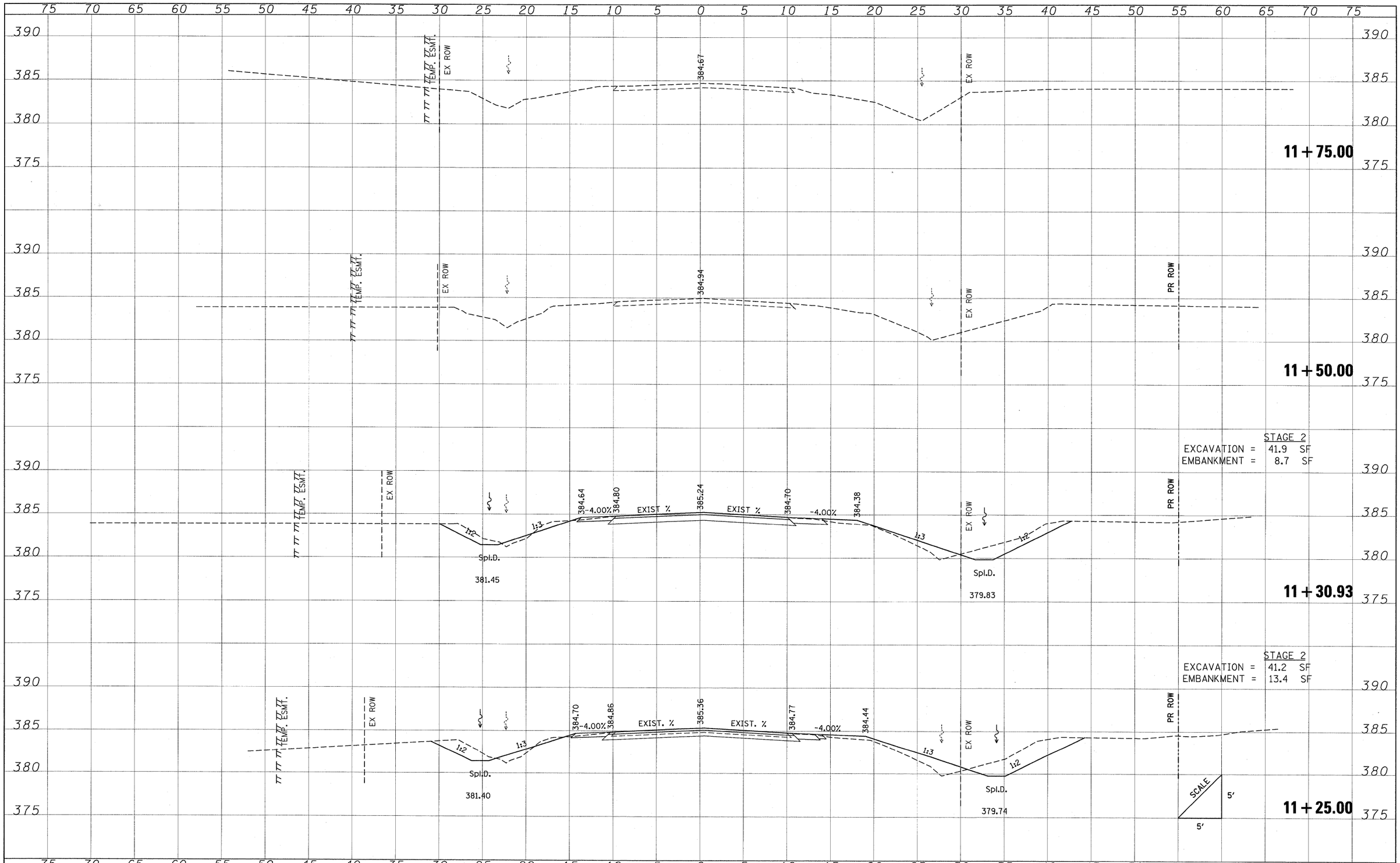
FILE NAME =	USER NAME = OpenH&B Springfield	DESIGNED -	REVISED -
I:\idot\0706610\wo_5\draw\sheets\D978081-sht-xsht PIOPOLIS.dgn		DRAWN -	REVISED -
	PLOT SCALE = 5.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 5/21/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS PIOPOLIS RD. (CH 20)

SCALE: | SHEET NO. OF SHEETS | STA. 10+75.00 TO STA. 11+08.93

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-4	HAMILTON	42	41
		CONTRACT NO. 78081		
	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

FILE NAME = I:\dot\0706610\wo_5\draw\sheets\D978081-sht-xsshtPIOPOLIS.dgn	USER NAME = OpenH&B Springfield	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 5.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 5/21/2010	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS PIOPOLIS RD. (CH 20)

SCALE: | SHEET NO. OF SHEETS | STA. 11+25.00 TO STA. 11+75.00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
776	102B-4	HAMILTON	42	42
		CONTRACT NO. 78081		
	ILLINOIS FED. AID PROJECT			