

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	1

INDEX OF SHEETS

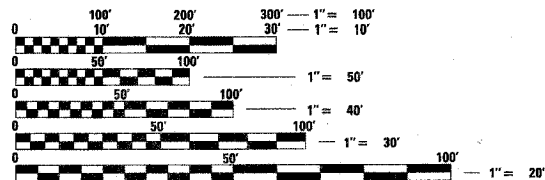
1. TITLE SHEET
2. SUMMARY OF QUANTITIES
3. GENERAL NOTES
4. TYPICAL SECTIONS
- 5.-7. ROADWAY REMOVAL PLANS
- 8.-11. ROADWAY PLANS
12. DRAINAGE SCHEDULE
- 13.-14. APPROACH PAVEMENT PLANS
- 15.-18. PAVEMENT MARKING & SIGNAGE
19. GUARDRAIL PLAN
20. ALIGNMENTS AND BENCHMARKS
- 21.-25. EROSION CONTROL PLANS
26. CITY OF ROCKFORD STANDARD DETAILS
- 27.-31. LIGHTING PLANS AND DETAILS
- 32.-46. MAINTENANCE OF TRAFFIC
- 47.-57. CROSS SECTIONS
- 58.-107. EASTBOUND BRIDGE PLANS (INCLUDING BORING LOGS)
- 108.-157. WESTBOUND BRIDGE PLANS (INCLUDING BORING LOGS)

HIGHWAY STANDARDS

- 280001-03 TEMPORARY EROSION CONTROL
- 424001-04 CURB RAMPS FOR SIDEWALKS
- 420401-05 BRIDGE APPROACH PAVEMENT
- 515001-02 NAME PLATE FOR BRIDGES
- 542301-01 PRECAST REINFORCED CONCRETE FLARED END SECTION
- 601101 CONCRETE HEADWALL FOR PIPE DRAIN
- 602401-01 MANHOLE, TYPE A
- 602701-01 CAST IRON STEPS
- 604001-02 FRAME AND LIDS, TYPE 1
- 606001-03 COMBINATION CONCRETE CURB AND GUTTER
- 631026-03 "TRAFFIC BARRIER TERMINAL, TYPE 5"
- 631031-06 "TRAFFIC BARRIER TERMINAL, TYPE 6"
- 667101 PERMANENT SURVEY MARKERS
- 701602-02 URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
- 701801-03 LANE CLOSURE, MULTILANE, 1 W OR 2W, CROSSWALK OR SIDEWALK CLOSURE, FOR SPEEDS < 45 MPH
- 702001-06 TRAFFIC CONTROL DEVICES
- 704001-03 TEMPORARY CONCRETE BARRIER
- 720001 SIGN PANEL MOUNTING DETAILS
- 720006-01 SIGN PANEL ERECTION DETAILS
- 720011 METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
- 728001 TELESCOPING STEEL SIGN SUPPORT
- 729001 APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
- 780001-01 TYPICAL PAVEMENT MARKINGS
- BLR 21-6 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES

CITY OF ROCKFORD STANDARDS

- STANDARD INLET TYPE 700
- INLET SPECIAL NO.'S 1 & 2
- TRENCH BACKFILL DETAIL
- DRIVEWAY DETAIL (5.0' FLARES)
- DRIVEWAY DETAIL
- COMBINATION CURB AND GUTTER, TYPE M-6.18 MODIFIED



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

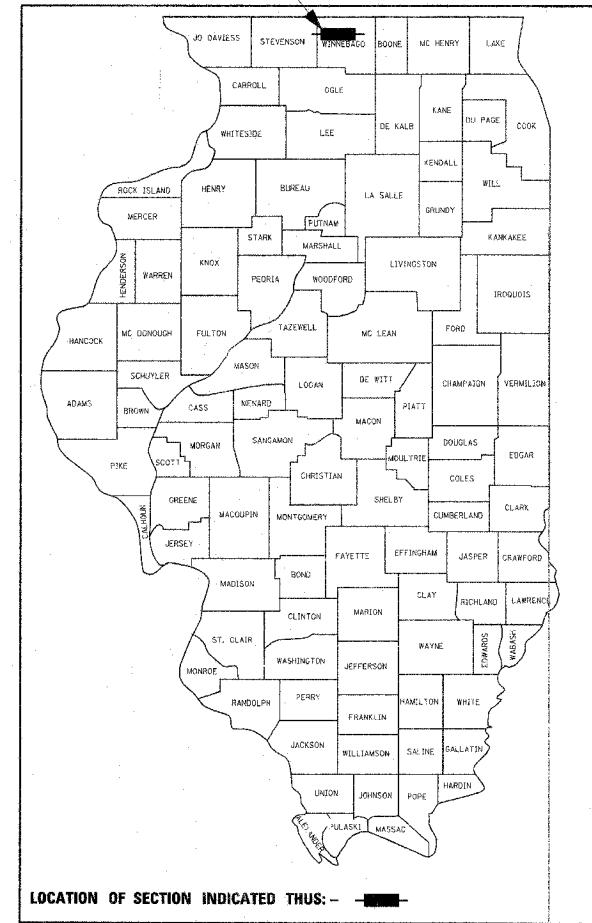
CONTRACT NO. 85399

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

PLANS FOR PROPOSED HARRISON AVE. OVER UPRR AND CC & PRR

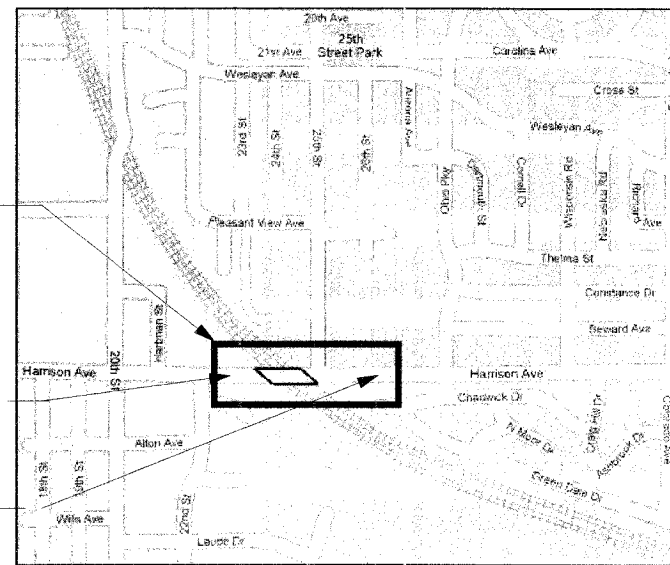
**FAP ROUTE 525 (HARRISON AVE.)
SECTION 02-00518-00-BR
PROJECT ACRF-525(106)
WINNEBAGO COUNTY
JOB NO. C-92-081-05
CITY OF ROCKFORD
R. 2 E.**

PROJECT LOCATION



LOCATION OF SECTION INDICATED THUS: — ■ —

PROJECT LOCATION



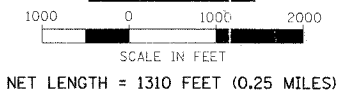
**BEGIN IMPROVEMENT
STA. 91 + 50**

**END IMPROVEMENT
STA. 104 + 60**

PROPOSED IMPROVEMENTS:
REMOVAL AND REPLACEMENT OF BOTH THE EXISTING EASTBOUND AND WESTBOUND BRIDGES, WIDEN AND RAISE ROADWAY EMBANKMENT, CONSTRUCT NEW BITUMINOUS CONCRETE PAVEMENT, BITUMINOUS COATED AGGREGATE SLOPEWALL, BRIDGE LIGHTING, BRIDGE APPROACH PAVEMENT, STORM SEWER, COMBINATION CURB AND GUTTER, CONCRETE SIDEWALK, CONCRETE MEDIAN, PAVEMENT MARKINGS, TOPSOIL, SEEDING, AND GUARDRAIL. EXISTING WESTBOUND STRUCTURE NUMBER 101-0097, PROPOSED WESTBOUND STRUCTURE NUMBER 101-6109, EXISTING EASTBOUND STRUCTURE NUMBER 101-0130, PROPOSED EASTBOUND STRUCTURE NUMBER 101-6111.

TRAFFIC DATA:
FUNCTIONAL CLASSIFICATION: ARTERIAL
CURRENT ADT : 20,600 (8% TRUCKS)
2027 ADT : 28,000
DESIGN SPEED : 45 MPH
POSTED SPEED : 45 MPH

LOCATION PLAN



UTILITY NOTE

THE LOCATIONS OF THOSE BURIED AND ABOVEGROUND UTILITIES SHOWN ARE APPROXIMATE, ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE 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 SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVEGROUND UTILITY LOCATION, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED AMONG THE CONTRACTOR, UTILITY COMPANY, AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS, ASSOCIATED WITH BURIED AND ABOVEGROUND UTILITIES REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

CHARLES P. SMITH
Professional Engineer
Signature: [Signature]
Date: 12/14/06
LIC. EXP. DATE: 11/30/2007
SHEETS 1 THRU 26
SHEETS 47 THRU 57

PAUL J. TUSIGN
Professional Engineer
Signature: [Signature]
Date: 12/14/06
LIC. EXP. DATE: 11/30/2007
SHEETS 27 THRU 31

RAUL CANTU
Professional Engineer
Signature: [Signature]
Date: 12/14/06
LIC. EXP. DATE: 11/30/2007
SHEETS 32 THRU 46

FRANCIS L. NAUMAN
Professional Engineer
Signature: [Signature]
Date: 12/14/06
LIC. EXP. DATE: 11/30/2006
SHEETS 58 THRU 157

© Copyright Hanson Professional Services Inc. 2006
HANSON
HANSON PROFESSIONAL SERVICES INC.
6775 FINCHAM DRIVE
ROCKFORD, IL 61108-3001

**ILLINOIS DESIGN FIRM
LICENSE NO: 184-001-084**

APPROVED: [Signature] 12/14/06 2006
Senior Civil Engineer
City of Rockford, IL
LOCAL AGENCY OFFICIAL

PASSED: [Signature] January 3, 2007
DISTRICT ENGINEER OF LOCAL ROADS & STREETS

RELEASED FOR LIMITED REVIEW: [Signature] January 3, 2007
DEPUTY DIRECTOR REGION 2 ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**



LAYOUT: 05/04/05 mgm
 DRAWN: 03/20/05 JDM
 REVISED: 03/20/05 CPS
 12:45:2006 (2:21 PM)
 I:\03 Jobs\031715\NMI\Sheet\C-102-SUM.dgn

SUMMARY OF QUANTITIES
 CONSTRUCTION TYPE CODE X140-2A

CODED PAY ITEM NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	250
20100500	TREE REMOVAL	ACRE	2
20400100	BORROW EXCAVATION	CU YD	4,946
20700220	POROUS GRANULAR EMBANKMENT	CU YD	420
20800150	TRENCH BACKFILL	CU YD	402
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	14,800
25000100	SEEDING, CLASS 1	ACRE	1.1
25000200	SEEDING, CLASS 2	ACRE	2
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	279
25000500	PHOSPHOROUS FERTILIZER NUTRIENT	POUND	279
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	279
25100630	EROSION CONTROL BLANKET	SQ YD	5,793
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	150
28000300	TEMPORARY DITCH CHECKS	EACH	1
28000400	PERIMETER EROSION BARRIER	FOOT	1,500
28000500	INLET AND PIPE PROTECTION	EACH	14
31100700	SUB-BASE GRANULAR MATERIAL, TYPE A 8"	SQ YD	6,206
31101200	SUB-BASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	6,206
35101400	AGGREGATE BASE COURSE, TYPE B	TON	212
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	423
35200600	EARTH EXCAVATION	CU YD	7,118
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	161
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	374
40600900	TEMPORARY RAMP	SQ YD	28
42001165	BRIDGE APPROACH PAVEMENT	SQ YD	228
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	228
42400100	PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH	SQ FT	3,804
42400800	DETECTABLE WARNINGS	SQ FT	35
44000100	PAVEMENT REMOVAL	SQ YD	5,588
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	434
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	5,151
44000600	SIDEWALK REMOVAL	SQ FT	3,118
44003100	MEDIAN REMOVAL	SQ FT	20,035
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1
50104650	SLOPE WALL REMOVAL	SQ YD	305
50157300	PROTECTIVE SHIELD	SQ YD	2,153
50200100	STRUCTURE EXCAVATION	CU YD	3,908
50300100	FLOOR DRAINS	EACH	8
50300225	CONCRETE STRUCTURES	CU YD	1,769.6
50300255	CONCRETE SUPERSTRUCTURE	CU YD	1,097.2
50300260	BRIDGE DECK GROOVING	SQ YD	2,410
50300280	CONCRETE ENCASEMENT	CU YD	16.3
50300300	PROTECTIVE COAT	SQ YD	5,141
50500505	STUD SHEAR CONNECTORS	EACH	10,472
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	507,220
50800515	BAR SPLICERS	EACH	2,262
50900865	PEDESTRIAN RAILING	FOOT	878
50901735	BRIDGE FENCE RAILING (SIDEWALK)	FOOT	884
50901750	PARAPET RAILING	FOOT	950
51100500	BITUMINOUS COATED AGGREGATE SLOPEWALL 6"	SQ YD	1,610
51201600	FURNISHING STEEL PILES, HP 12X53	FOOT	5,302
51202305	DRIVING PILES	FOOT	5,302
51203600	TEST PILE STEEL, HP 12X53	EACH	12
51204650	PILE SHOES	EACH	210
51500100	NAME PLATES	EACH	2
52000340	NEOPRENE EXPANSION JOINT, 4"	FOOT	235
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	11
52100020	ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	33
52100520	ANCHOR BOLTS, 1"	EACH	88
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	2
55100500	STORM SEWER REMOVAL 12"	FOOT	202
58700300	CONCRETE SEALER	SQ FT	781
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	4
60246541	INLET BOX SPECIAL NO. 1	EACH	3
60500060	REMOVING INLETS	EACH	4
60500070	REMOVING MANHOLES TO MAINTAIN FLOW	EACH	1
60500090	REMOVING INLETS TO MAINTAIN FLOW	EACH	2
60603500	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.06	FOOT	1,180
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	1,656
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	118
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	1,585

CODED PAY ITEM NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY
60610100	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.18, MODIFIED	FOOT	212
60618300	CONCRETE MEDIAN SURFACE, 4"	SQ FT	17,680
63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	403
63000015	STEEL PLATE BEAM GUARD RAIL, TYPE D	FOOT	349
63100070	TRAFFIC BARRIER TERMINAL, TYPE 5	EACH	2
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	2
63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	2
63100215	TRAFFIC BARRIER TERMINAL, TYPE 6 (SPECIAL)	EACH	2
63200600	STEEL PLATE BEAM GUARD RAIL REMOVAL, SINGLE RAIL	FOOT	639
66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	2
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	17
67100100	MOBILIZATION	L SUM	1
70103700	TRAFFIC CONTROL COMPLETE	L SUM	1
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	4
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	1703
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	43,756
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	364
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	4,369
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1003
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	399
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	62
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	3,557
78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	184
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	1,204
78201000	TERMINAL MARKERS - DIRECT APPLIED	EACH	4
78300105	PAVEMENT MARKING REMOVAL	FOOT	5,000
81012600	CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	1,800
81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	845
81300800	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 12" X 6"	EACH	4
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1,800
83008400	LIGHT POLE ALUMINUM, 40FT. M.H., 10 FT. MAST ARM	EACH	14
83600100	LIGHT POLE FOUNDATION	EACH	8
40701951	HOT MIX ASPHALT PAVEMENT (FULL-DEPTH), 13 1/2"	SQ YD	4,988
550A0340	STORM SEWERS, CLASS A, TYPE 2 1/2"	FOOT	611
550A0360	STORM SEWERS, CLASS A, TYPE 2 1/4"	FOOT	68
550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	FOOT	382
X0323437	CONDUIT FLEXIBLE METALLIC WEATHERPROOF, 2"	EACH	4
X0712400	TEMPORARY PAVEMENT	SQ YD	1510
X5020301	STRUCTURE EXCAVATION PROTECTION FOR PILE BENT NO. 1	EACH	1
X5020302	STRUCTURE EXCAVATION PROTECTION FOR PILE BENT NO. 2	EACH	1
X5020303	STRUCTURE EXCAVATION PROTECTION FOR PILE BENT NO. 3	EACH	1
X5020304	STRUCTURE EXCAVATION PROTECTION FOR PILE BENT NO. 4	EACH	1
X5020305	STRUCTURE EXCAVATION PROTECTION FOR PILE BENT NO. 5	EACH	1
X5020306	STRUCTURE EXCAVATION PROTECTION FOR PILE BENT NO. 6	EACH	1
X5051401	FURNISHING AN ERECTING STRUCTURAL STEEL BRIDGE NO. 1	L SUM	1
X5051402	FURNISHING AN ERECTING STRUCTURAL STEEL BRIDGE NO. 2	L SUM	1
X5121800	PERMANENT STEEL SHEET PILING	SQ FT	342
X6065701	CONCRETE MEDIAN, TYPE SM 4.06	SQ FT	418
X6310195	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT), MODIFIED	EACH	2
XX000968	INLET TYPE 700	EACH	9
XX004339	BIKE PATH APPROACH GUARDRAIL ADJUSTMENT	FOOT	56
XX006577	LUMINAIRE, PULSE START, METAL HALIDE, 400W	EACH	14
XX006578	LUMINAIRE, PULSE START, METAL HALIDE, 150W	EACH	6
XX006623	MULCH, METHOD 3, SPECIAL	ACRE	3.1
Z0013798	CONSTRUCTION LAYOUT	L SUM	1
Z0018800	DRAINAGE SYSTEM	L SUM	1
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1
Z0076800	TRAINEES	HOURS	1500
X0325442	HLMR BEARINGS, GUIDED EXPANSION, 300K	EACH	11
52100530	ANCHOR BCLTS, 1 1/4"	EACH	44
52100540	ANCHOR BCLTS, 1 1/2"	EACH	44
XX006819	CONTRACTOR'S RIGHT-OF-ENTRY AGREEMENT	L SUM	1
XX006820	SIDEWALK APPROACH GUARDRAIL ADJUSTMENT	FOOT	56
XX006821	CONCRETE TRUCK WASHOUT	L SUM	1

* INDICATES PAY ITEM COVERED BY SPECIAL PROVISION

Δ SPECIALTY ITEMS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	2
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONSTRUCTION
 TYPE
 CODE
 Y080
 1500

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SECTION 02-00518-00-BR
 WINNEBAGO COUNTY
 HARRISON AVENUE OVER UPRR AND CC&PRR
SUMMARY OF QUANTITIES
 SCALE: VERT. DATE 12/14/06
 HORIZ. DRAWN BY MWH
 CHECKED BY CPS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	3
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

GENERAL NOTES

- THE CONTRACTOR SHALL VERIFY THE LOCATION, DEPTH, AND SIZE OF EXISTING AND PROPOSED STORM SEWER LINES PRIOR TO ORDERING AND FABRICATION OF DRAINAGE STRUCTURES OR SEWERS.
- WHERE SECTION, SUBSECTION, SUBDIVISION, OR PROPERTY MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND PRESERVE ALL PROPERTY MARKERS UNTIL AN OWNER OR AUTHORIZED SURVEYOR HAS WITNESSED OR REFERENCED THEIR LOCATION.
- CONTRACTORS BIDDING THIS PROJECT SHALL VISIT THE SITE BEFORE BIDDING.
- THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCY IMMEDIATELY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO ANY UTILITY LINES AND EXISTING IMPROVEMENTS TO REMAIN THAT ARE DAMAGED AS A RESULT OF THE WORK.
- ALL SECTIONS, DETAILS, AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR SITUATIONS ELSEWHERE, UNLESS OTHERWISE SHOWN.
- ALL SIDEWALKS SHALL BE 4 INCHES THICK AND CONSTRUCTED TO THE WIDTH STATED ON THE PLANS. JOINT SPACING SHALL BE AS SHOWN ON DETAIL.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS.
- ALL STORM SEWER STRUCTURES SHALL BE PRECAST CONCRETE. STORM SEWER PIPE SHALL BE AS SHOWN ON THE PLAN SHEETS. SIZE OF PRECAST RISERS AND/OR GRADE RINGS SHALL BE THE SAME INSIDE SIZE AS THE PRECAST BOX OR MATCH THE NOMINAL SIZE OF THE INLET BOX.
- ALL REINFORCEMENT BARS SHALL CONFORM TO AASHTO M31, M42, OR M53 GRADE 60.
- ADJUSTMENT OF PROPOSED GRADES TO MATCH EXISTING ENTRANCES OR OTHER FIELD CONDITIONS MAY BE REQUIRED AS DIRECTED BY THE ENGINEER.
- ANY DAMAGE TO THE EXISTING SIDEWALK OR CURB TO REMAIN DURING ANY CONSTRUCTION ACTIVITY SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- IN ACCORDANCE WITH SECTION 602 OF STANDARD SPECIFICATIONS, THE CONNECTION OF EXISTING DRAIN TILES, PIPE UNDERDRAINS, PIPE CULVERTS, AND STORM SEWERS TO THE PROPOSED DRAINAGE SYSTEM STRUCTURES WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCLUDED IN THE PAY ITEMS PROVIDED.
- THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL BE REQUIRED AS DIRECTED BY THE ENGINEER TO RELOCATE OR TO REMOVE AND REINSTALL ALL ROAD SIGNS WHICH INTERFERE WITH CONSTRUCTION OPERATIONS AND TO TEMPORARILY RESET ALL SUCH SIGNS DURING CONSTRUCTION. ALL WORK INVOLVING SIGNS SHALL BE GOVERNED BY THE FOLLOWING REQUIREMENTS:
 - SIGNS SHALL NOT BE MOVED UNTIL PROGRESS OF WORK DEMANDS.
 - EVERY SIGN REMOVED MUST BE RE-ERECTED AT A TEMPORARY LOCATION IN A WORKMAN LIKE MANNER AND BE VISIBLE TO ALL TRAFFIC. ALL SUCH SIGNS MUST BE MAINTAINED STRAIGHT AND NEAT FOR THE DURATION OF THE TEMPORARY SETTING.
 - ALL PAVEMENT MARKINGS WITHIN A GIVEN WORK AREA SHALL BE COMPLETED PRIOR TO CONSTRUCTION PHASE CHANGE.
- ALL ELEVATIONS, STATIONS, AND OFFSETS SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
- ALL PAVEMENT, CURB, SIDEWALK AND DRIVEWAYS TO BE ADJUSTED SHALL BE SAW CUT FULL DEPTH AT THE LIMITS OF THE ADJUSTMENT AND TRANSITION. PAYMENT FOR THE SAW CUT SHALL BE INCLUDED IN THE COST OF THE ITEM BEING REMOVED.
- ANY UNCONTROLLED CRACKING THAT OCCURS IN P.C.C. PAVEMENTS, SIDEWALKS, CURBS, OR CURB AND GUTTER PRIOR TO FINAL ACCEPTANCE SHALL BE ROUTED OR SAWED AND SEALED ACCORDING TO IDOT STANDARD SPECIFICATION SECTION 452. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONCRETE ITEMS.
- TRENCH BACKFILL SHALL BE USED IN ALL LOCATIONS WHERE THE EDGE OF THE EXCAVATION TRENCH FOR UTILITY EXCAVATION IS WITHIN 2 FEET OF PROPOSED ROADWAY, CURB AND/OR SIDEWALK. QUANTITY FOR TRENCH BACKFILL WAS CALCULATED FROM IDOT "TRENCH BACKFILL TABLE" BASED ON A THEORETICAL TRENCH WIDTH. ADDITIONAL TRENCH BACKFILL THAT IS NECESSARY DUE TO OVER EXCAVATION OF TRENCH WILL NOT BE PAID FOR.
- TRENCH BACKFILL FOR MANHOLES, INLETS, AND CATCH BASINS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THOSE ITEMS.
- ALL TRENCH BACKFILL SHALL BE COMPACTED TO 98% OF STANDARD PROCTOR DENSITY, NO JETTING WILL BE ALLOWED.
- ALL TRENCH BACKFILL SHALL BE IMPORTED GRANULAR MATERIAL UNLESS EXISTING GRANULAR MATERIALS ARE SPECIFICALLY APPROVED BY THE ENGINEER.
- ALL WARNING SIGNS FOR TRAFFIC CONTROL AND PROTECTION SHALL BE 48-IN. SIZE AND FLOURESCENT ORANGE.
- ALL RCP STORM SEWER JOINTS SHALL CONFORM TO ASTM C 443. COST FOR MATERIAL OR LABOR NECESSARY TO MEET THIS REQUIREMENT SHALL BE INCIDENTAL TO THE VARIOUS STORM SEWER PAY ITEMS.

UTILITY CONTACTS

UTILITY NAME	TYPE	CONTACT	PHONE NUMBER
COMMONWEALTH EDISON CO. 123 ENERGY AVENUE ROCKFORD, ILLINOIS 61109	ELECTRICAL	DAVE SCHACHT	(815) 490-3261
CITY OF ROCKFORD 425 EAST STATE STREET ROCKFORD, ILLINOIS 61104	WATER & STORM	JOHN MARTIN	(815) 961-3766
INSIGHT COMMUNICATIONS 4450 KISHWAUKEE STREET ROCKFORD, ILLINOIS 61109	TV	MIKE OWENS	(815) 395-8977 (815) 395-7876 (CELL)
AT&T LONG DISTANCE NETWORK SERVICES 866 ROCK CREEK ROAD PLANO, ILLINOIS 60545	COMMUNICATIONS	CARL DONAHUE	(847) 420-9115
SBC 2404 8TH AVENUE ROCKFORD, ILLINOIS 61108	COMMUNICATIONS	FRANK ROSE	(815) 394-7276
NICOR GAS 4651 LINDEN ROAD ROCKFORD, ILLINOIS 61109	GAS	STAN JANUSZ	(815) 965-5416 EXT. 211

LEGEND

	Power Pole		Right of Way Marker
	Guy Anchor		Right of Way Line
	Power Pole w/Light		Proposed Right of Way Line
	Telephone Splice Box		Construction Easement
	Traffic Signal Controller		Section Line
	Handhole		Property Line
	Traffic Signal		Centerline of Railroad
	Traffic Mast		Edge of Pavement
	Deciduous Tree		Edge of Sidewalk
	Tree Evergreen		Curb & Gutter
	Tree Removal		Ditch
	Stump		Fence
	Manhole		Cable TV
	Standard Inlet		Aerial Utility
	Fire Hydrant		Gas Pipe
	Light Pole		Guardrail
	Flared End Section		Sanitary Sewer
	Valve		Storm Sewer
	Valve Vault		Telephone Cable
	Test Well		Water Pipe
	Mailbox		Commercial Building
	Sign		Flagpole

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SECTION 02-00518-00-BR
WINNEBAGO COUNTY
HARRISON AVENUE OVER UPRR AND CC&PRR

GENERAL NOTES

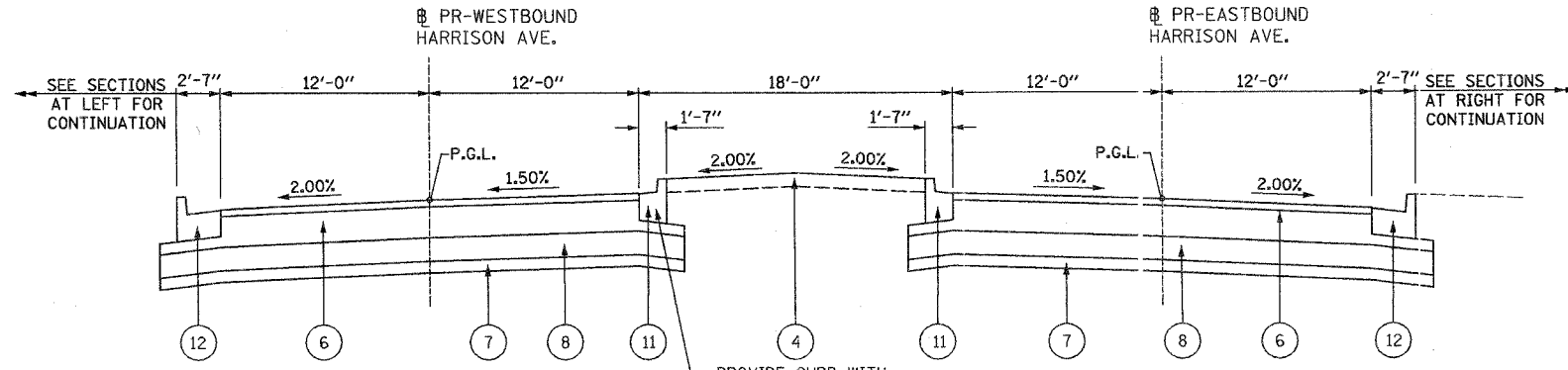
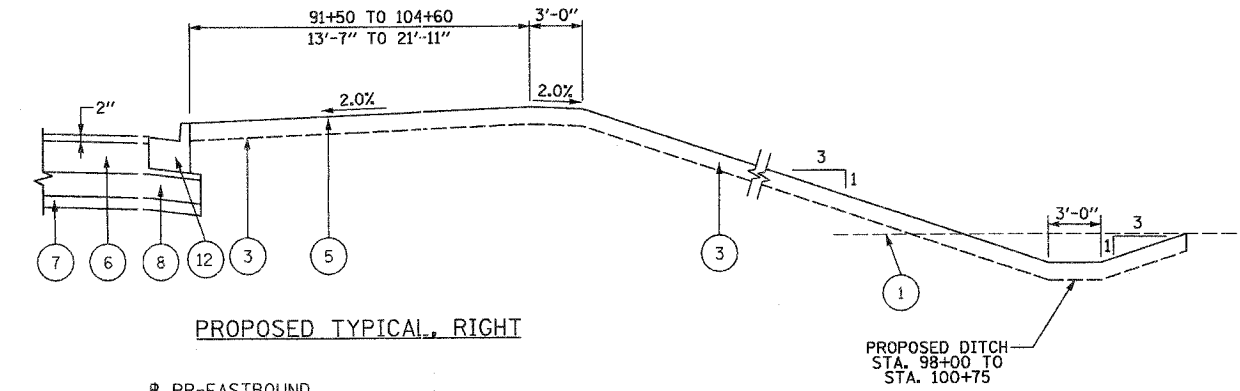
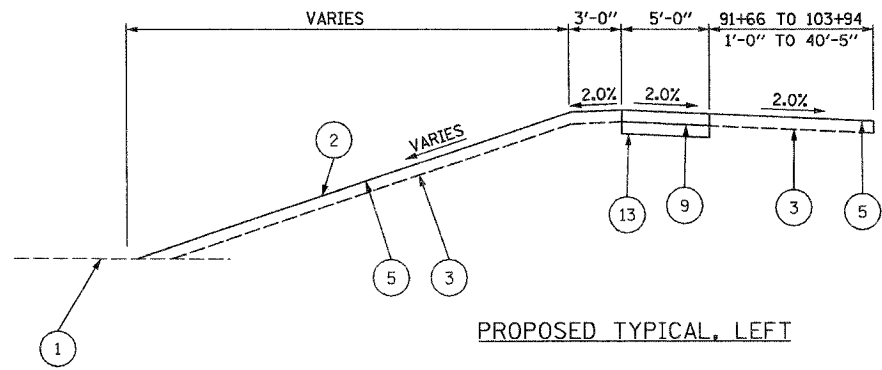
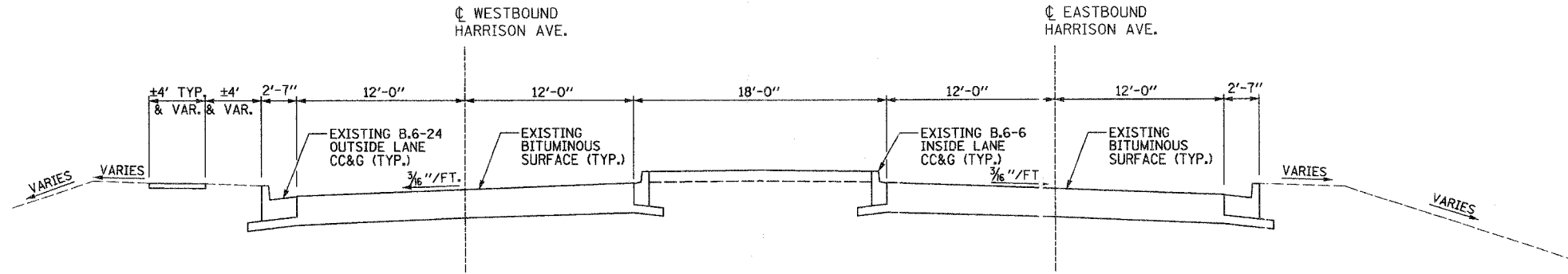
SCALE: VERT. _____
 HORIZ. _____
DATE 12/14/06

DRAWN BY JDM
CHECKED BY CPS

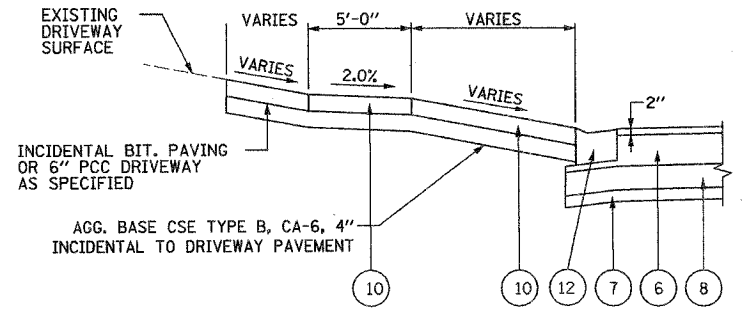


LAYOUT: JDM 05/04/06
DRAWN: JDM 05/11/06
REVIEWED: CPS 05/11/06
12:44:24 AM 12/14/06
C:\Users\jdm\Documents\02-00518-00-BR\02-00518-00-BR-03-NOTES.dwg

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	4
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TYPICAL SECTION
STA. 91+50 TO STA. 104+60
BRIDGE OMISSION
STA. 92+68 TO STA. 98+29



LEGEND

1 EXISTING GROUND LINE	7 PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE B, 4"
2 PROPOSED GROUND LINE	8 PROPOSED SUB-BASE GRANULAR MATERIAL, TYPE A, 8"
3 PROPOSED TOPSOIL FURNISH AND PLACE, 4"	9 PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK, 4"
4 PROPOSED CONCRETE MEDIAN SURFACE, 4"	10 PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK, 6"
5 PROPOSED SEEDING, CLASS 2	11 PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
6 PROPOSED HOT MIX ASPHALT PAVEMENT FULL DEPTH, 13.5"	12 PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
	13 PROPOSED AGGREGATE BASE COURSE, TYPE B, 4"

BITUMINOUS PAVEMENT DESIGN

LOCATION(S):	HARRISON AVENUE, ROCKFORD, IL		TEMPORARY PAVEMENT	
MIXTURE USE(S):	11.5" BINDER COURSE	2" SURFACE COURSE	8.5" BINDER COURSE	2" SURFACE COURSE
PG:	PG58-28	PG58-28	PG58-23	PG58-28
RAP %: (MAX)**	UP TO 15%	UP TO 10%	UP TO 15%	UP TO 10%
DESIGN AIR VOIDS:	4% @ N70	4% @ N70	4% @ N70	4% @ N70
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL 19.0	IL 9.5 OR IL 12.5	IL 19.0	IL 9.5 OR IL 12.5
FRICTION AGGREGATE:	N/A	MIXTURE E	N/A	MIXTURE E
MIXTURE WEIGHT:	112 LB/SQ YD/IN	112 LB/SQ YD/IN	112 LB/SQ YD/IN	112 LB/SQ YD/IN

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

REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SECTION 02-00518-00-BR
WINNEBAGO COUNTY
HARRISON AVENUE OVER UPRR AND CC&PRR

TYPICAL SECTIONS

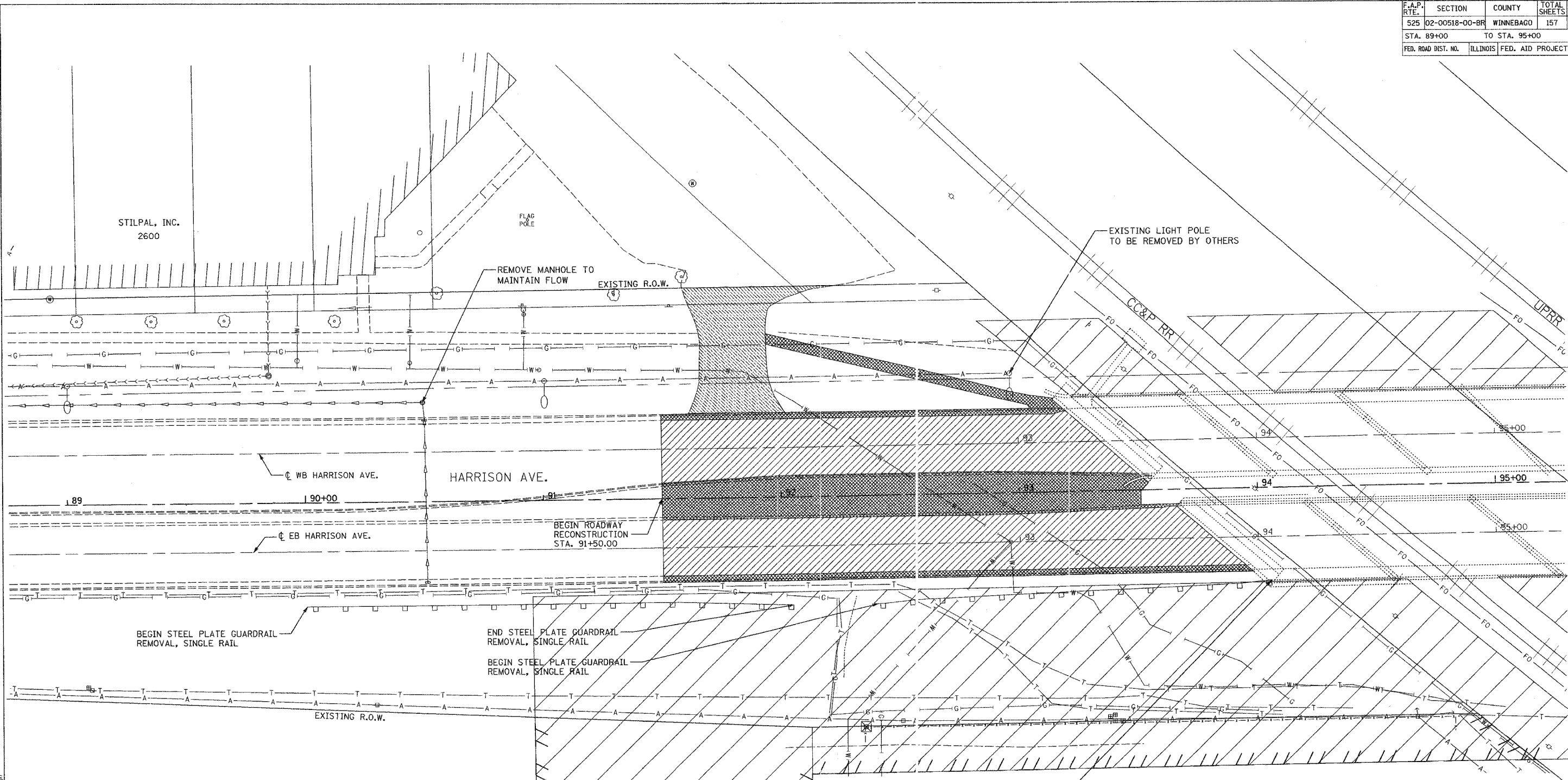
SCALE: VERT. HORIZ.
DATE 12/14/06

DRAWN BY JDM
CHECKED BY CPS



LAYOUT: CPS 10/03/06
DRAWN: JDM 12/14/06
REVIEWED: CPS 12/14/06

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	5
STA. 89+00		TO STA. 95+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



REMOVAL LEGEND

	PAVEMENT REMOVAL
	SIDEWALK REMOVAL
	DRIVEWAY PAVEMENT REMOVAL
	CURB & GUTTER REMOVAL
	REMOVAL OF SPECIFIED ITEM
	TREE REMOVAL AREA

NOTE:
ADDITIONAL REMOVAL ITEMS
SHOWN IN MAINTENANCE OF
TRAFFIC PLANS.

REVISIONS	
NAME	DATE

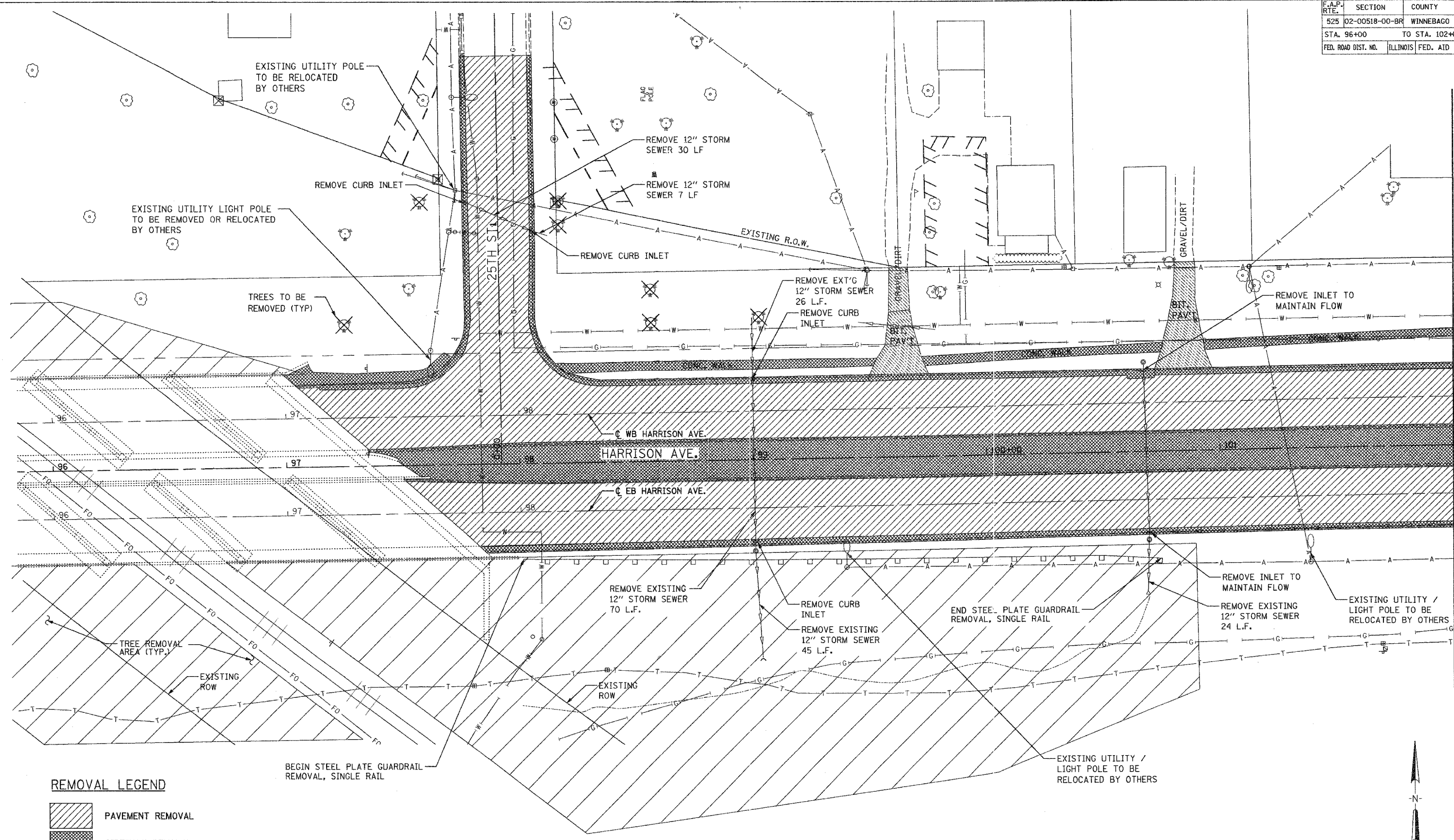
ILLINOIS DEPARTMENT OF TRANSPORTATION
SECTION 02-00518-00-BR
WINNEBAGO COUNTY
HARRISON AVENUE OVER UPRR AND CC&PRR
ROADWAY REMOVAL PLAN
SCALE: VERT. HORIZ. DATE 12/14/06
DRAWN BY JDM
CHECKED BY CPS

LAYOUT CPS 10/17/06/06 mmh
DRAWN JDM 10/17/06/06 J2VA 2/06/06 08:30 AM
REVIEWED CPS 10/17/06/06 JN03 J2VA 3/17/06 08:30 AM

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	6
STA. 96+00		TO STA. 102+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LAYOUT JUN 05/04/05 mmh
 DRAW JUN 03/20/05 JZVA
 REVIEWED CPS 03/20/05 JAZ3
C:\05\REF.M.dgn



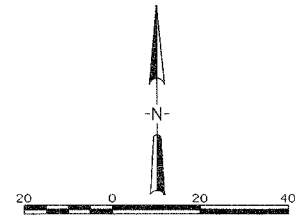
REMOVAL LEGEND

- PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- DRIVEWAY PAVEMENT REMOVAL
- CURB & GUTTER REMOVAL
- X REMOVAL OF SPECIFIED ITEM
- TREE REMOVAL AREA

NOTE:
 ADDITIONAL REMOVAL ITEMS
 SHOWN IN MAINTENANCE OF
 TRAFFIC PLANS.

REVISIONS	
NAME	DATE

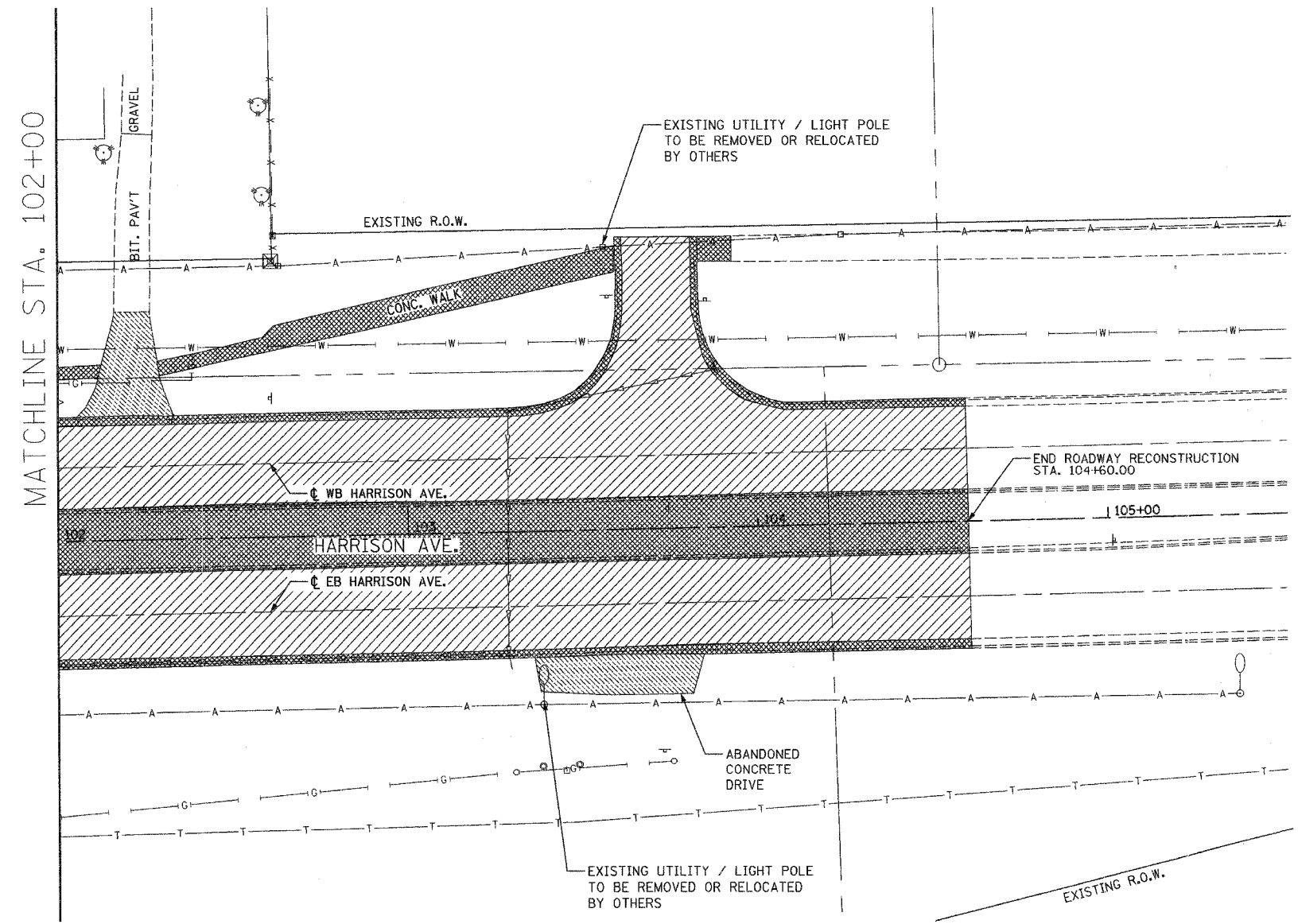
ILLINOIS DEPARTMENT OF TRANSPORTATION
 SECTION 02-00518-00-BR
 WINNEBAGO COUNTY
 HARRISON AVENUE OVER UPRR AND CC&PRR
ROADWAY REMOVAL PLAN
 SCALE: VERT. _____
 HORIZ. _____
 DATE 12/14/06
 DRAWN BY JDM
 CHECKED BY CPS



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	7
STA. 102+00		TO STA. 104+60		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



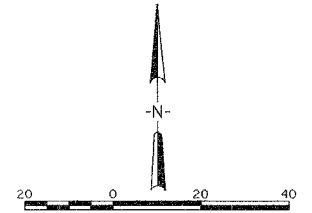
LAYOUT: JDM 05/04/05
 DRAWN: JDM 12/14/06
 REVIEWED: CPS 12/14/06



NOTE:
 ADDITIONAL REMOVAL ITEMS
 SHOWN IN MAINTENANCE OF
 TRAFFIC PLANS.

REMOVAL LEGEND

	PAVEMENT REMOVAL
	SIDEWALK REMOVAL
	DRIVEWAY PAVEMENT REMOVAL
	CURB & GUTTER REMOVAL
X	REMOVAL OF SPECIFIED ITEM
	TREE REMOVAL AREA



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SECTION 02-00518-00-BR
 WINNEBAGO COUNTY
 HARRISON AVENUE OVER UPRR AND CC&PRR

ROADWAY REMOVAL PLAN

SCALE: VERT. 1"=20'
 HORIZ. 1"=40'

DATE 12/14/06

DRAWN BY JDM
 CHECKED BY CPS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	8
STA. 87+00		TO STA. 93+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	SHEET 1 OF 4	

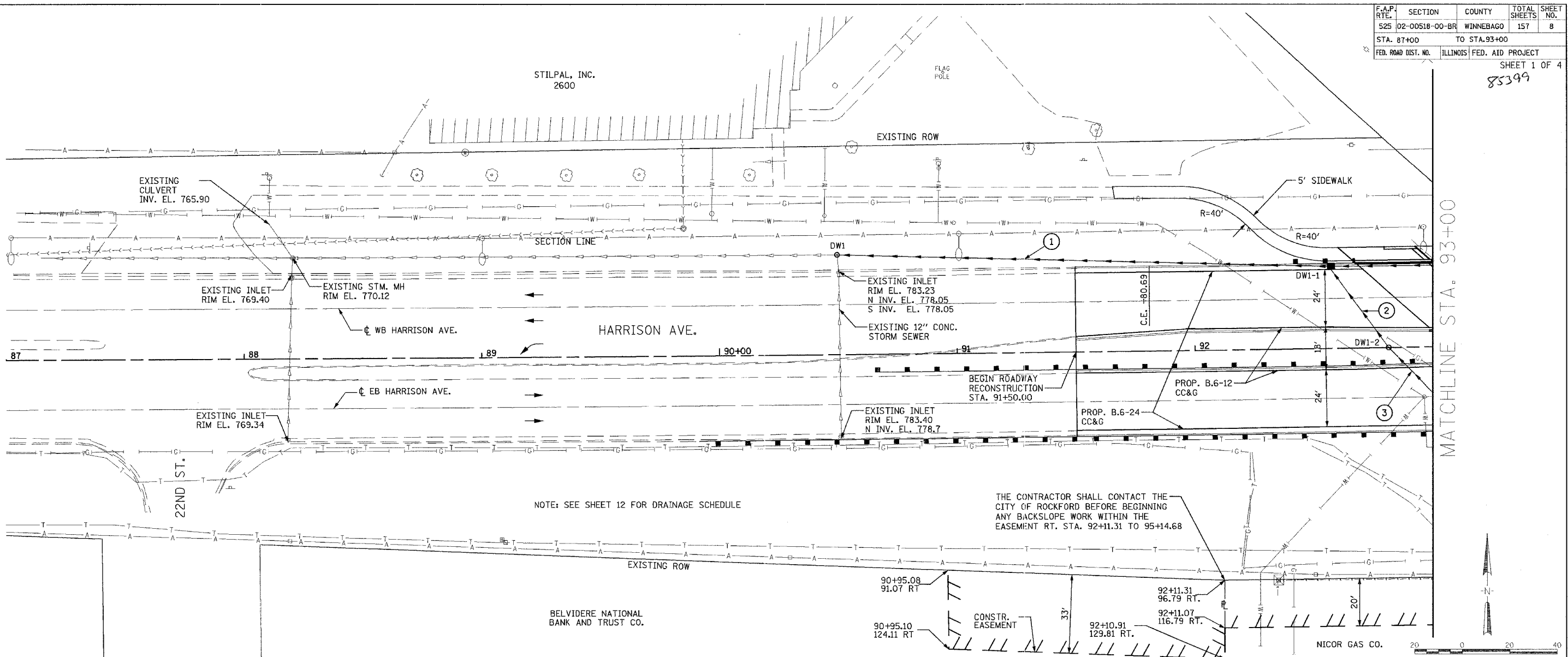
85399

PLAN	DATE
BY	
CHECKED	
DATE	
NO. OF SHEETS	
NO. OF SHEETS CHECKED	
NO. OF SHEETS REVISIONS	

HANSON
 Hanson Professional Services Inc.

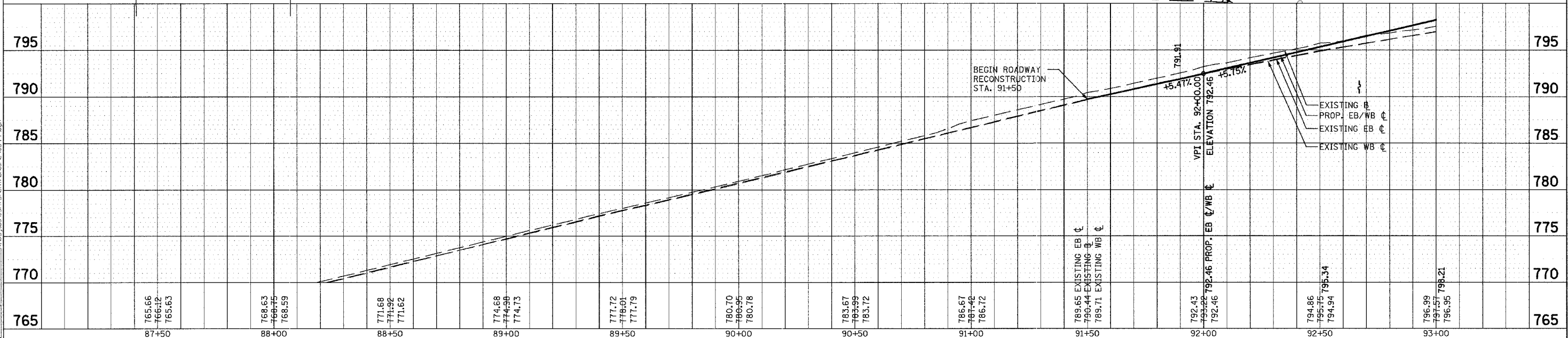
PROFILE	DATE
BY	
CHECKED	
DATE	
NO. OF SHEETS	
NO. OF SHEETS CHECKED	
NO. OF SHEETS REVISIONS	

LAYOUT: CPS 05/03/05
 DRAWN: JMM 12/27/06
 REVIEWED: JLV 12/27/06
 DATE: 01/24/07
 TIME: 0:50 AM
 PROJECT: 02-00518-00-BR
 SHEET: 8 OF 157



NOTE: SEE SHEET 12 FOR DRAINAGE SCHEDULE

THE CONTRACTOR SHALL CONTACT THE CITY OF ROCKFORD BEFORE BEGINNING ANY BACKSLOPE WORK WITHIN THE EASEMENT RT. STA. 92+11.31 TO 95+14.68



ROADWAY PLAN AND PROFILE

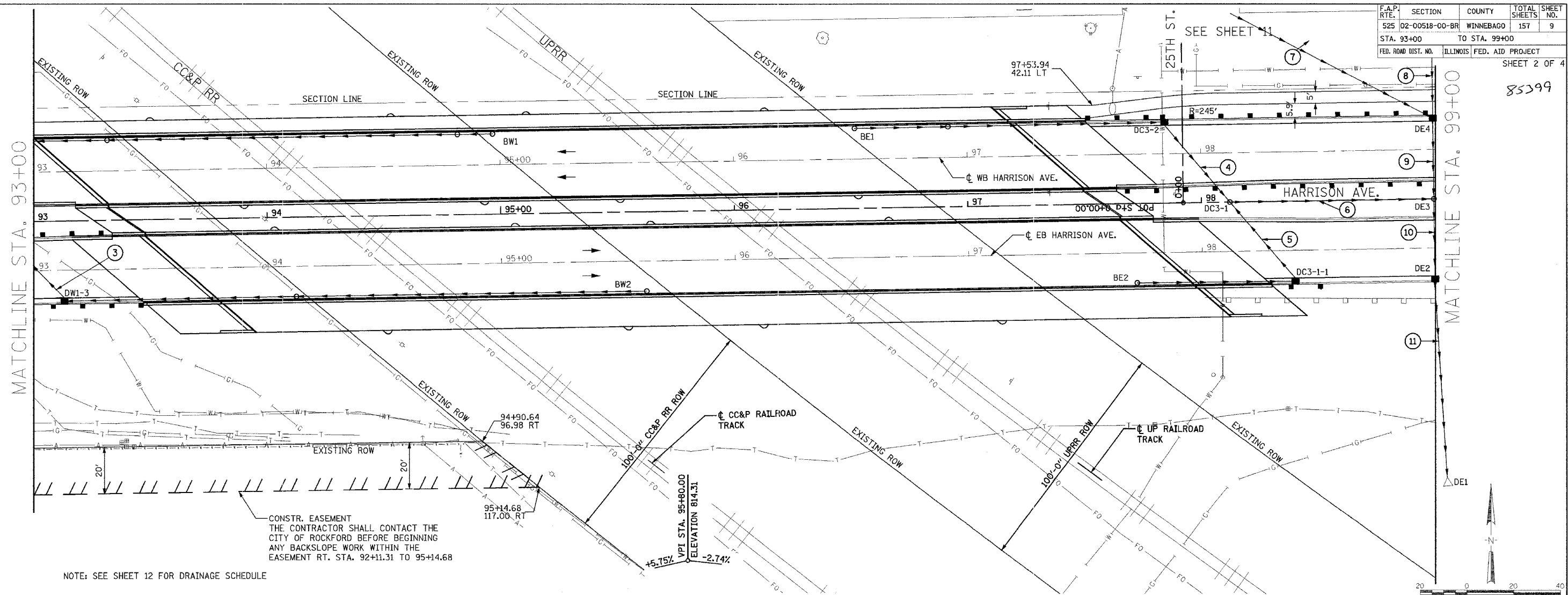
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	9
STA. 93+00		TO STA. 99+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

85399
SHEET 2 OF 4

PLAN	SURVEYED	DATE
NOTE BOOK NO.	PLotted	
NO.	BY	
	CHECKED	
	DATE	

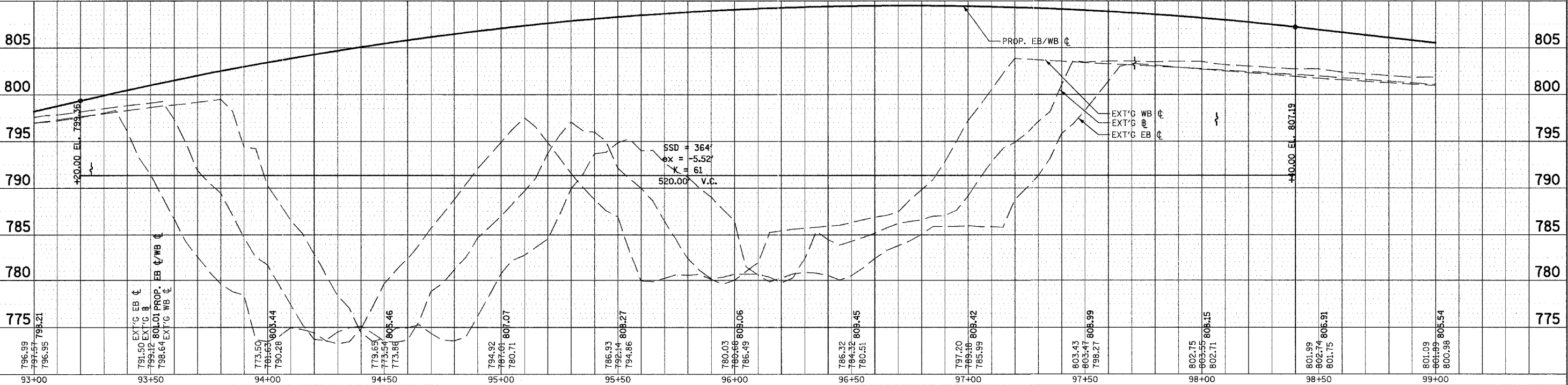
HANSON
Hanson Professional Services Inc.

PROFILE	SURVEYED	DATE
NOTE BOOK NO.	PLotted	
	BY	
	CHECKED	
	DATE	



CONSTR. EASEMENT THE CONTRACTOR SHALL CONTACT THE CITY OF ROCKFORD BEFORE BEGINNING ANY BACKSLOPE WORK WITHIN THE EASEMENT RT. STA. 92+11.31 TO 95+14.68

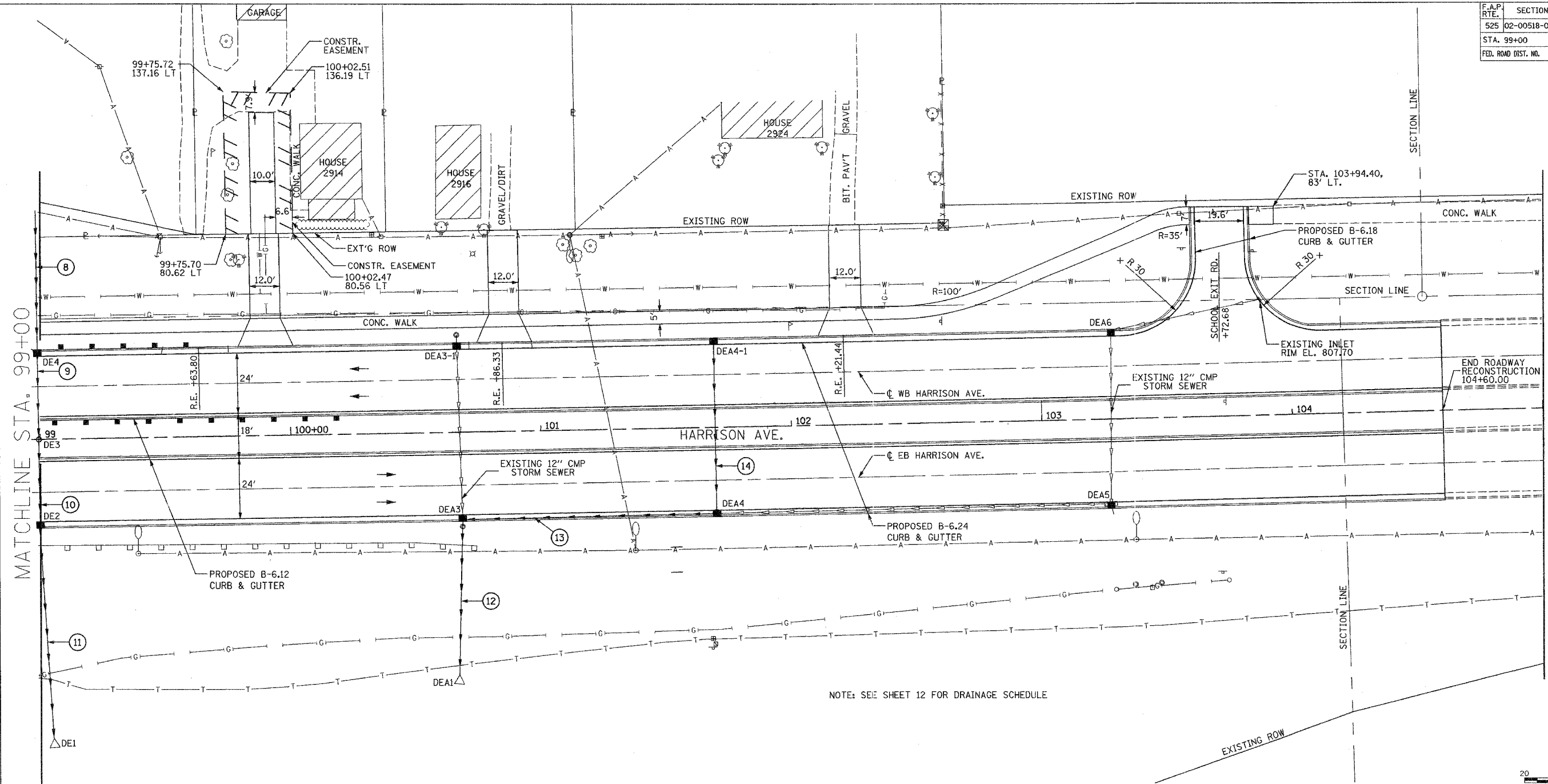
NOTE: SEE SHEET 12 FOR DRAINAGE SCHEDULE



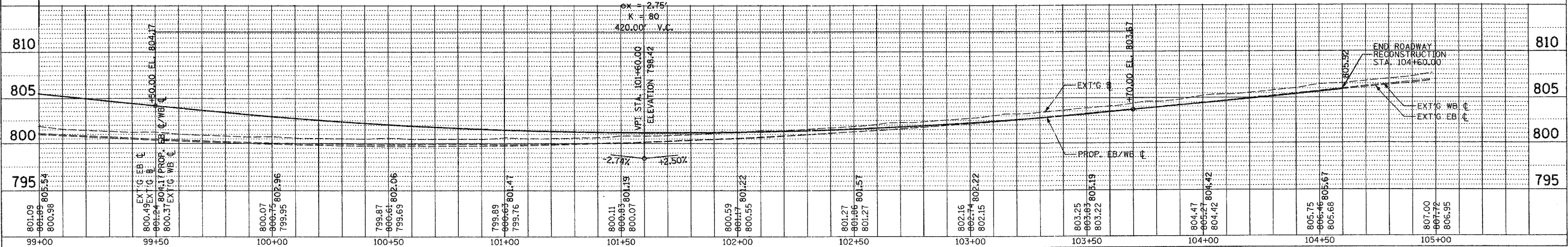
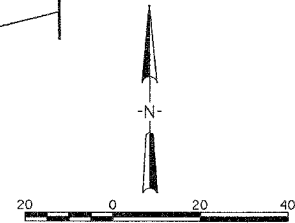
ROADWAY PLAN AND PROFILE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	10
STA. 99+00		TO STA. 105+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

HANSON Professional Services Inc.
 NOTE BOOK NO. _____
 CHECKED BY _____
 DATE _____
 DRAWN BY _____
 DATE _____
 PROJECT NO. _____
 SHEET NO. _____



NOTE: SEE SHEET 12 FOR DRAINAGE SCHEDULE



ROADWAY PLAN AND PROFILE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	11
STA. 0+00		TO STA. 5+00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

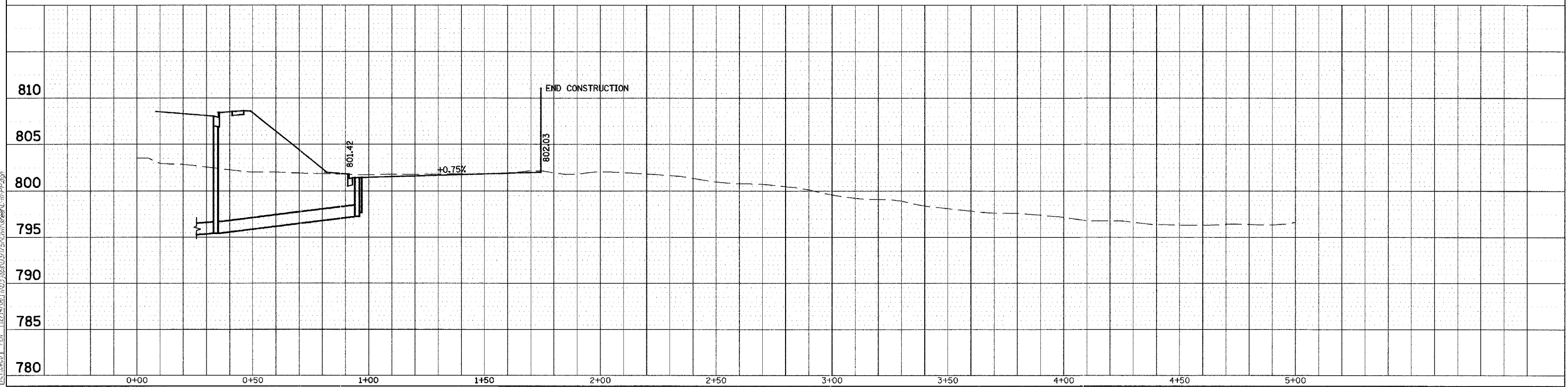
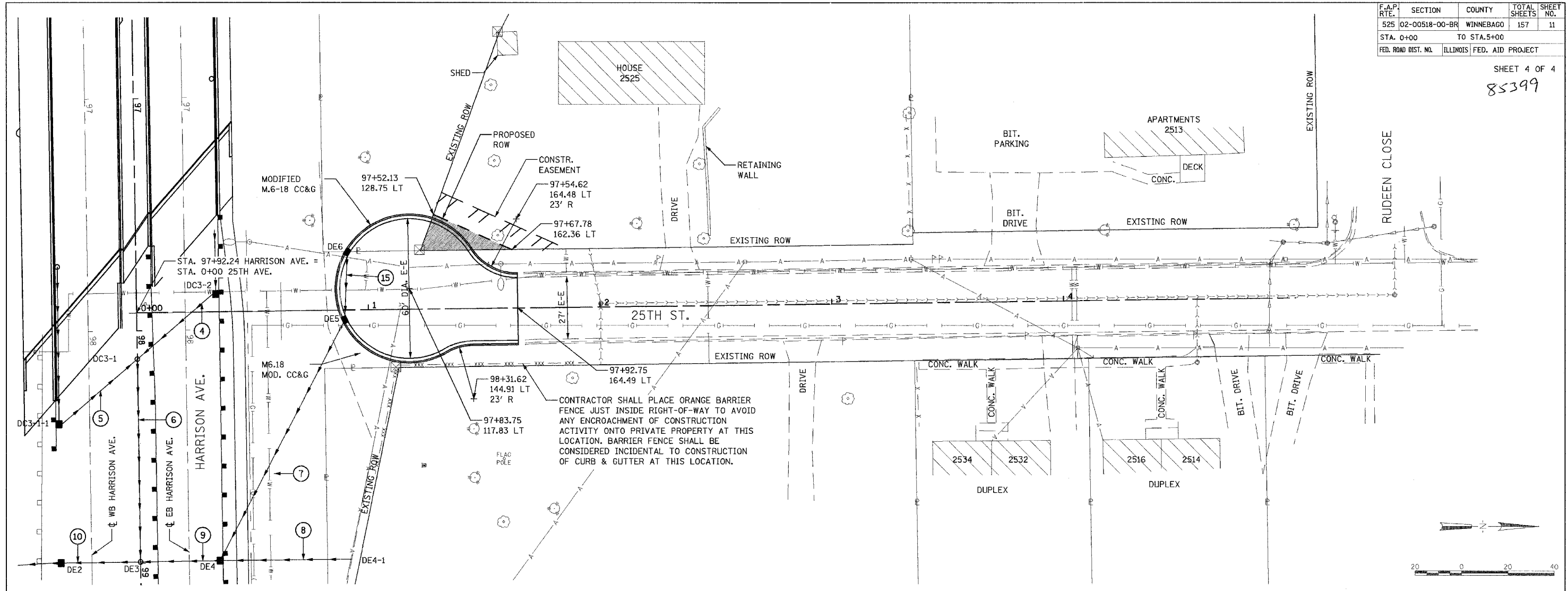
SHEET 4 OF 4
85399

PLAN	DATE
BY	
REVISIONS	
NO.	DATE
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

HANSON
Hanson Professional Services Inc.

PROFILE	DATE
BY	
REVISIONS	
NO.	DATE
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

LAYOUT	CPS	05/03/05	meb
DRAWN	JSM	12/14/06	01/23/07 05:41 PM
REVIEWED	FLN	12/14/06	1/07/08 03:27 PM



ROADWAY PLAN AND PROFILE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	12
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

DRAINAGE SCHEDULE

STR. NO.	STATION	OFFSET	TYPE	TOC EL.	RIM EL.	INV. N	INV. S	INV. E	INV. W
DW1	90+49.81	41.84' LT	4'Ø MANHOLE TA TIF CL	--	783.65	--	777.85	778.05	777.85
DW1-1	92+57.74	35.00' LT	INLET TYPE 700	795.48	--	--	790.52	790.52	790.32
DW1-2	92+81.50	0.00	4'Ø MANHOLE TA TIF CL	--	798.07	790.96	791.06	--	--
DW1-3	93+12.66	35.00' RT	INLET TYPE 700	799.11	--	791.43	--	791.53	--
DC3-2	97+84.73	35.00' LT	INLET TYPE 700	808.44	--	--	802.80	--	803.00
DC3-1	98+12.20	0.00	4'Ø MANHOLE TA TIF CL	--	809.36	802.40	802.40	802.20	--
DC3-1-1	98+39.72	35.00' RT	INLET TYPE 700	807.33	--	807.80	--	--	803.00
DE4	98+99.47	35.00' LT	INLET SPECIAL NO.1	805.68	--	795.35	795.25	--	795.35
DE3	98+99.47	0.00	4'Ø MANHOLE TA TIF CL	--	806.46	795.05	794.85	--	800.60
DE2	98+99.47	35.00' RT	INLET TYPE 700	805.68	--	794.55	792.65	--	--
DE1	99+03.26	199.17' RT	24" F.E.S.	--	--	789.50	--	--	--
DEA3-1	100+67.02	35.00' LT	INLET TYPE 700	801.94	--	--	±794.3	--	--
DEA3	100+67.98	35.00' RT	INLET SPECIAL NO.1	801.92	--	±793.7	790.00	793.70	--
DEA1	100+65.50	96.74' RT	24" F.E.S.	--	--	787.75	--	--	--
DEA4-1	100+69.70	35.00' LT	INLET TYPE 700	801.05	--	--	795.20	--	--
DEA4	101+69.70	35.00' RT	INLET SPECIAL NO.1	801.05	--	794.60	--	--	794.40
DE6	97+76.90	96.00' LT	INLET TYPE 700	801.16	--	--	--	797.16	--
DE5	98+06.34	94.57' LT	INLET TYPE 700	801.16	--	--	--	796.81	796.91
DE4-1	98+99.80	91.08' LT	PIPE INVERT	--	--	--	795.75	--	--

PIPE NO.	U/S-D/S	LENGTH (FT)	SIZE (INCH)	CLASS/TYPE	U/S INV.	D/S INV.
①	DW1-1 TO DW1	208	12	A/2	790.32	778.05
②	DW1-2 TO DW1-1	42	12	A/2	790.96	790.52
③	DW1-3 TO DW1-2	45	12	A/2	791.43	791.06
④	DC3-2 TO DC3-1	44	12	A/2	802.80	802.40
⑤	DC3-1-1 TO DC3-1	44	12	A/2	807.80	802.40
⑥	DC3-1 TO DE3	88	12	A/2	802.20	800.60
⑦	DE5 TO DE4	111	12	A/2	796.81	795.35
⑧	DE4-1 TO DE4	57	24	A/2	795.75	795.35
⑨	DE4 TO DE3	34	24	A/2	795.25	795.05
⑩	DE3 TO DE2	34	24	A/2	794.85	794.55
⑪	DE2 TO DE1	89	24	A/2	792.65	789.50
⑫	DEA3 TO DEA1	66	24	A/2	790.00	787.75
⑬	DEA4 TO DEA3	102	24	A/2	794.40	793.70
⑭	DEA4-1 TO DEA4	68	15	A/2	795.20	794.60
⑮	DE6 TO DE5	29	12	A/2	797.16	796.91



Hanson Professional Services Inc.

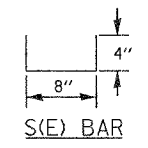
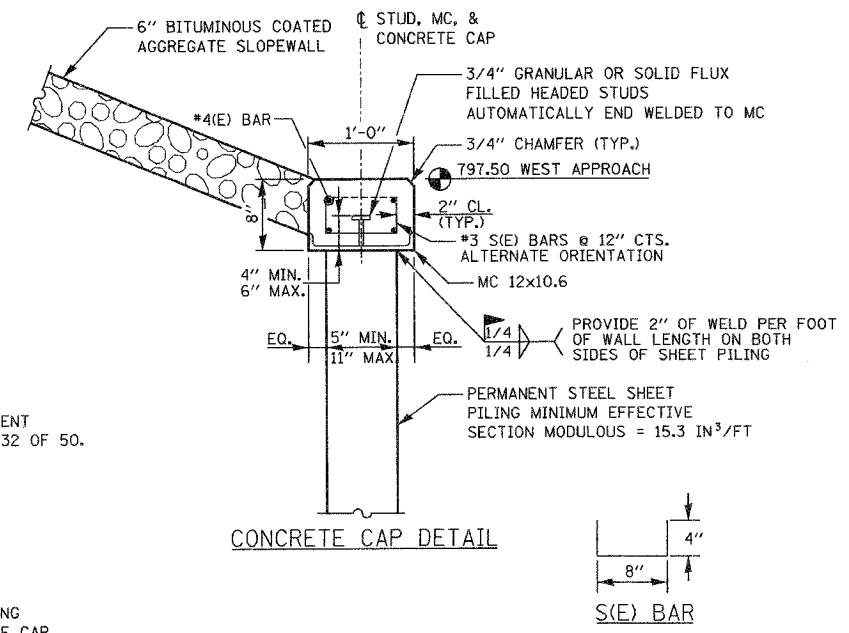
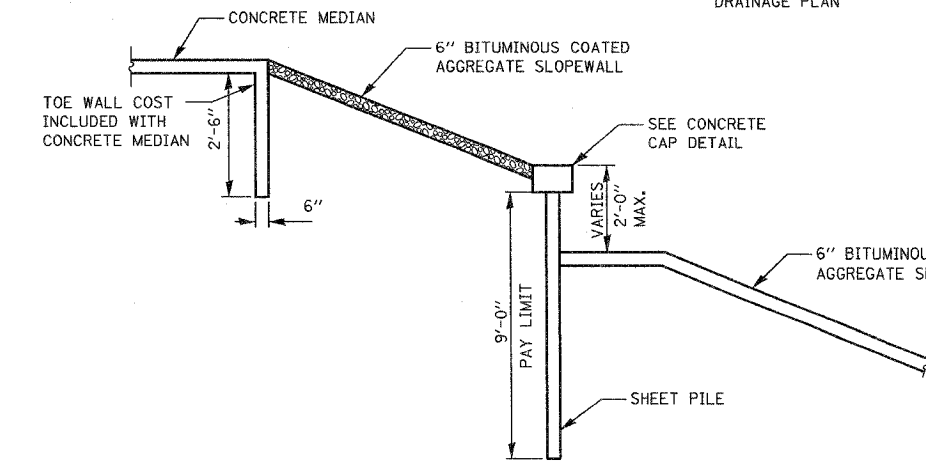
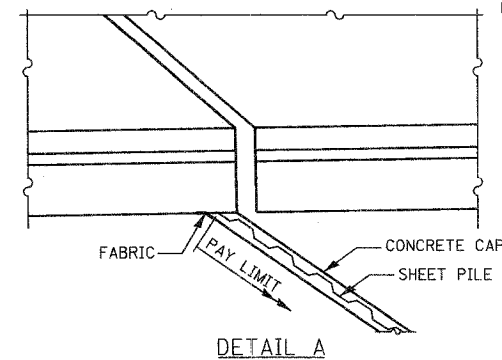
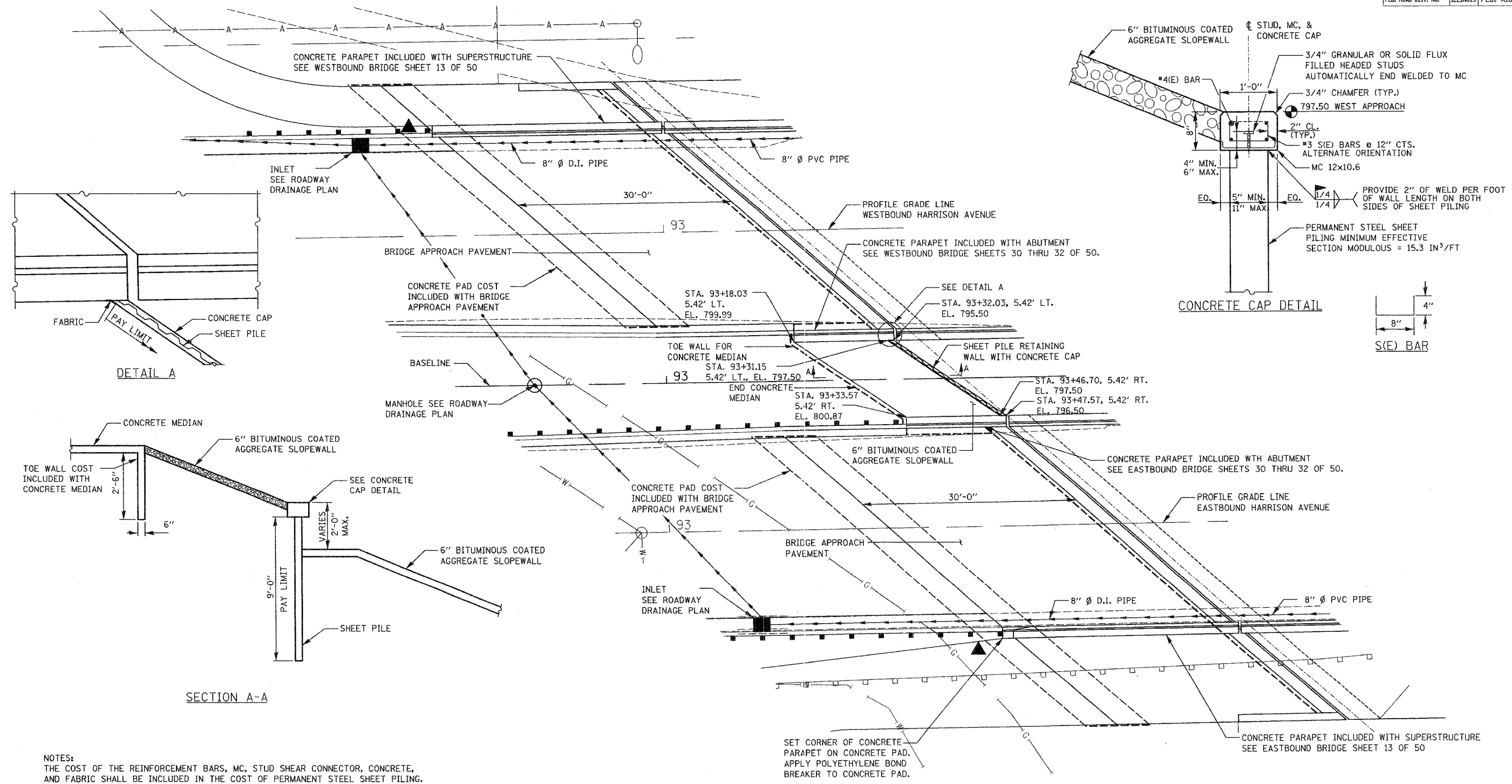
LAYOUT: JDM 05/04/05 mmh
 DRAWN: JDM 03/11/05 12:44:2006.09:31 AM
 REVIEWED: CPS 03/11/05 10:03:00 03/17/05/10:03:00

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SECTION 02-00518-00-BR
 WINNEBAGO COUNTY
 HARRISON AVENUE OVER UPRR AND CC&PRR

DRAINAGE SCHEDULE
 SCALE: VERT. _____
 DATE 12/14/06
 DRAWN BY MWH
 CHECKED BY CPS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	13
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



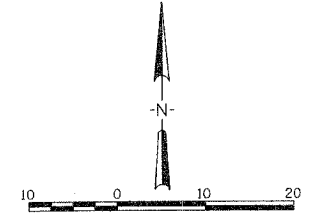
NOTES:
 THE COST OF THE REINFORCEMENT BARS, MC, STUD SHEAR CONNECTOR, CONCRETE, AND FABRIC SHALL BE INCLUDED IN THE COST OF PERMANENT STEEL SHEET PILING.
 REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.
 EPOXY COATED BARS SHALL BE IN ACCORDANCE WITH SECTION 503.
 THE MC MEMBER SHALL BE IN ACCORDANCE WITH SECTION 505.
 THE STUD SHEAR CONNECTOR SHALL BE IN ACCORDANCE WITH SECTION 505.
 THE CONCRETE SHALL BE CLASS SI IN ACCORDANCE WITH SECTIONS 503 AND 1020.
 THE FABRIC SHALL BE IN ACCORDANCE WITH ARTICLE 1080.03 AND SHALL OVERLAP THE WINGWALL BY 2'-0" AND THE SHEET PILE WALL BY 2'-0".
 STATIONING AND OFFSET ARE DEFINED WITH RESPECT TO THE BASE LINE.

WEST APPROACH PAVEMENT

▲ NOTCH SLEEPER PAD AS REQUIRED TO FACILITATE THE INSTALLATION OF THE TERMINAL BARRIER POSTS.

BILL OF MATERIALS

ITEM	UNIT	TOTAL
PERMANENT STEEL SHEET PILING	SQ FT	171
BRIDGE APPROACH PAVEMENT	SQ YD	228



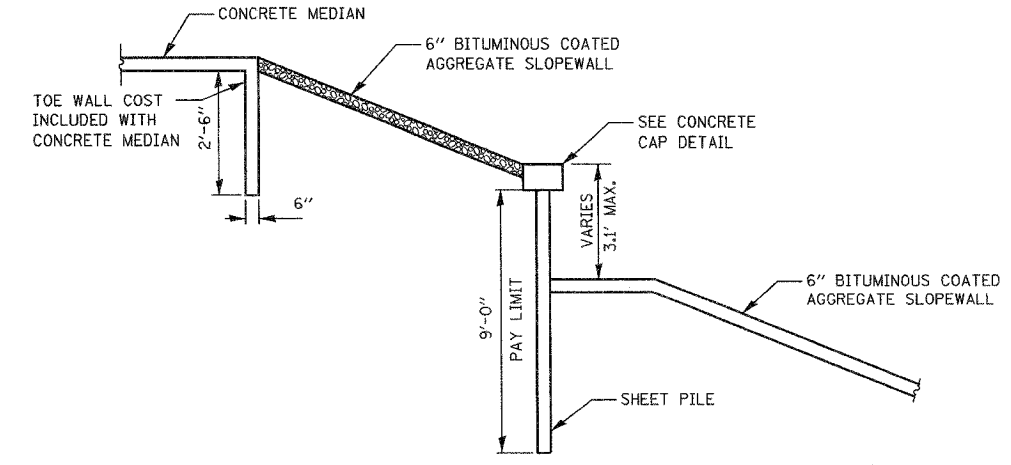
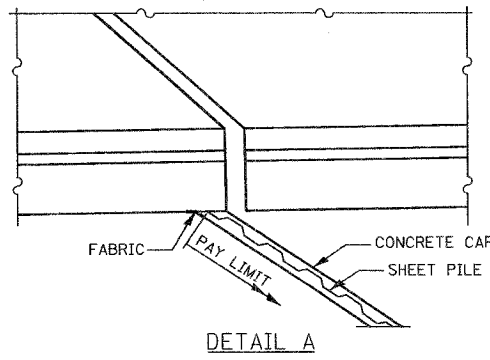
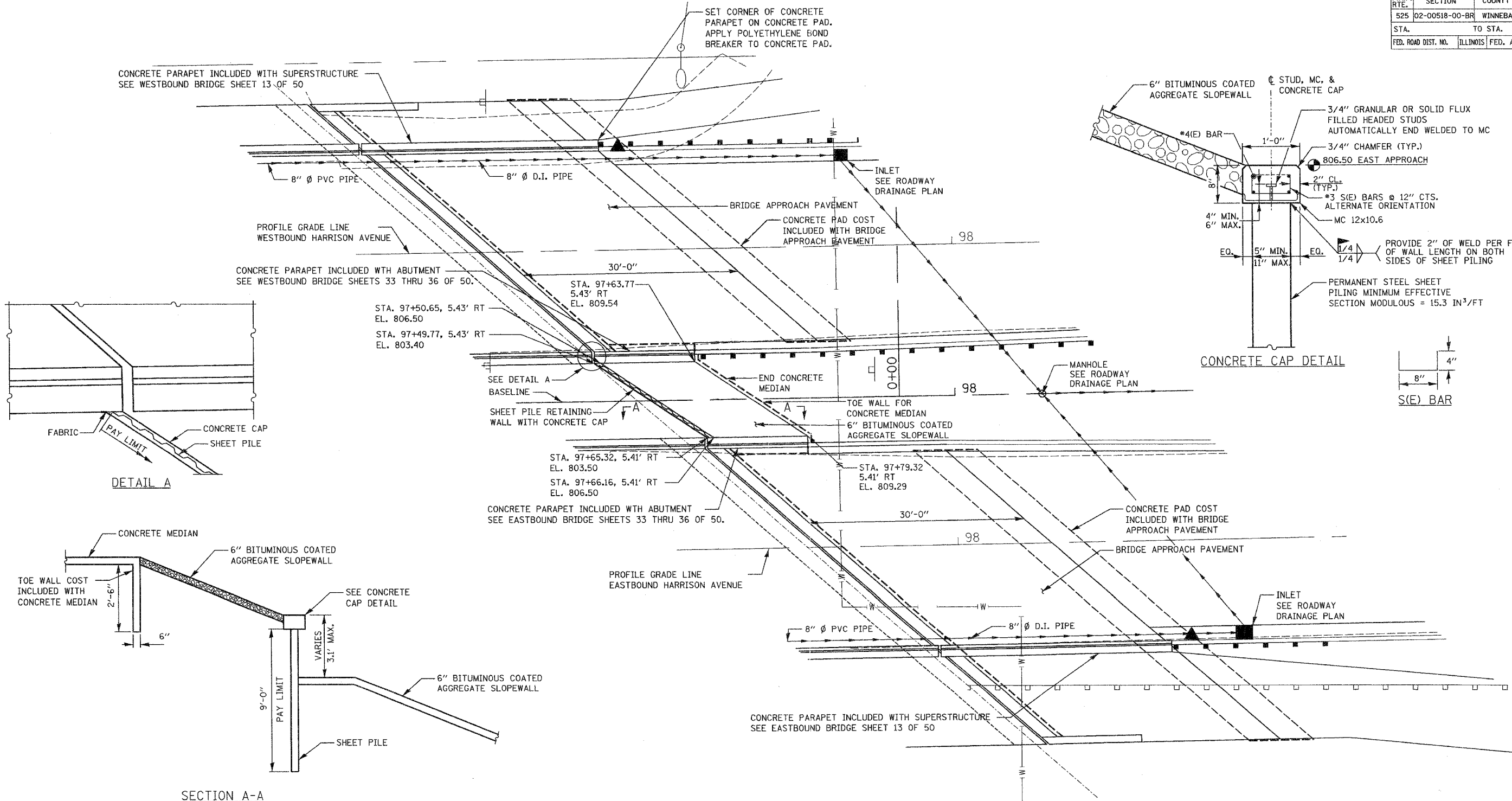
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SECTION 02-00518-00-BR
 WINNEBAGO COUNTY
 HARRISON AVENUE OVER UPRR AND CC&PRR
WEST APPROACH PAVEMENT PLAN
 SCALE: VERT. _____
 HORIZ. _____
 DATE 12/14/06
 DRAWN BY _____
 CHECKED BY _____



LAYOUT OPS 05/03/05
 DRAWN JIM 10/25/06
 REVIEWED FUL 10/25/06
 12/14/06 12:49 PM
 10/25/06 10:30 AM
 10/25/06 10:30 AM

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	14
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



NOTES:

THE COST OF THE REINFORCEMENT BARS, MC, STUD SHEAR CONNECTOR, CONCRETE, AND FABRIC SHALL BE INCLUDED IN THE COST OF PERMANENT STEEL SHEET PILING.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

EPOXY COATED BARS SHALL BE IN ACCORDANCE WITH SECTION 503.

THE MC MEMBER SHALL BE IN ACCORDANCE WITH SECTION 505.

THE STUD SHEAR CONNECTOR SHALL BE IN ACCORDANCE WITH SECTION 505.

THE CONCRETE SHALL BE CLASS SI IN ACCORDANCE WITH SECTIONS 503 AND 1020.

THE FABRIC SHALL BE IN ACCORDANCE WITH ARTICLE 1080.03 AND SHALL OVERLAP THE WINGWALL BY 2'-0" AND THE SHEET PILE WALL BY 2'-0".

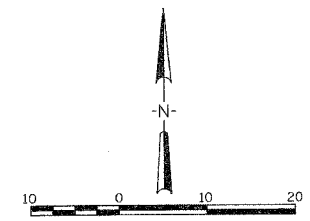
STATIONING AND OFFSET ARE DEFINED WITH RESPECT TO THE BASE LINE.

EAST APPROACH PAVEMENT

▲ NOTCH SLEEPER PAD AS REQUIRED TO FACILITATE THE INSTALLATION OF THE TERMINAL BARRIER POSTS.

BILL OF MATERIALS

ITEM	UNIT	TOTAL
PERMANENT STEEL SHEET PILING	SQ FT	171
BRIDGE APPROACH PAVEMENT	SQ YD	274



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SECTION 02-00518-00-BR

WINNEBAGO COUNTY

HARRISON AVENUE OVER UPRR AND CC&PRR

EAST APPROACH PAVEMENT PLAN

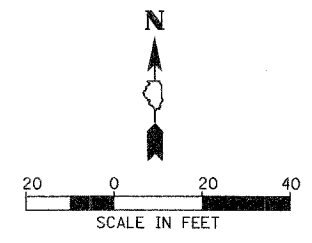
SCALE: VERT. HORIZ. DATE 12/14/06

DRAWN BY CHECKED BY



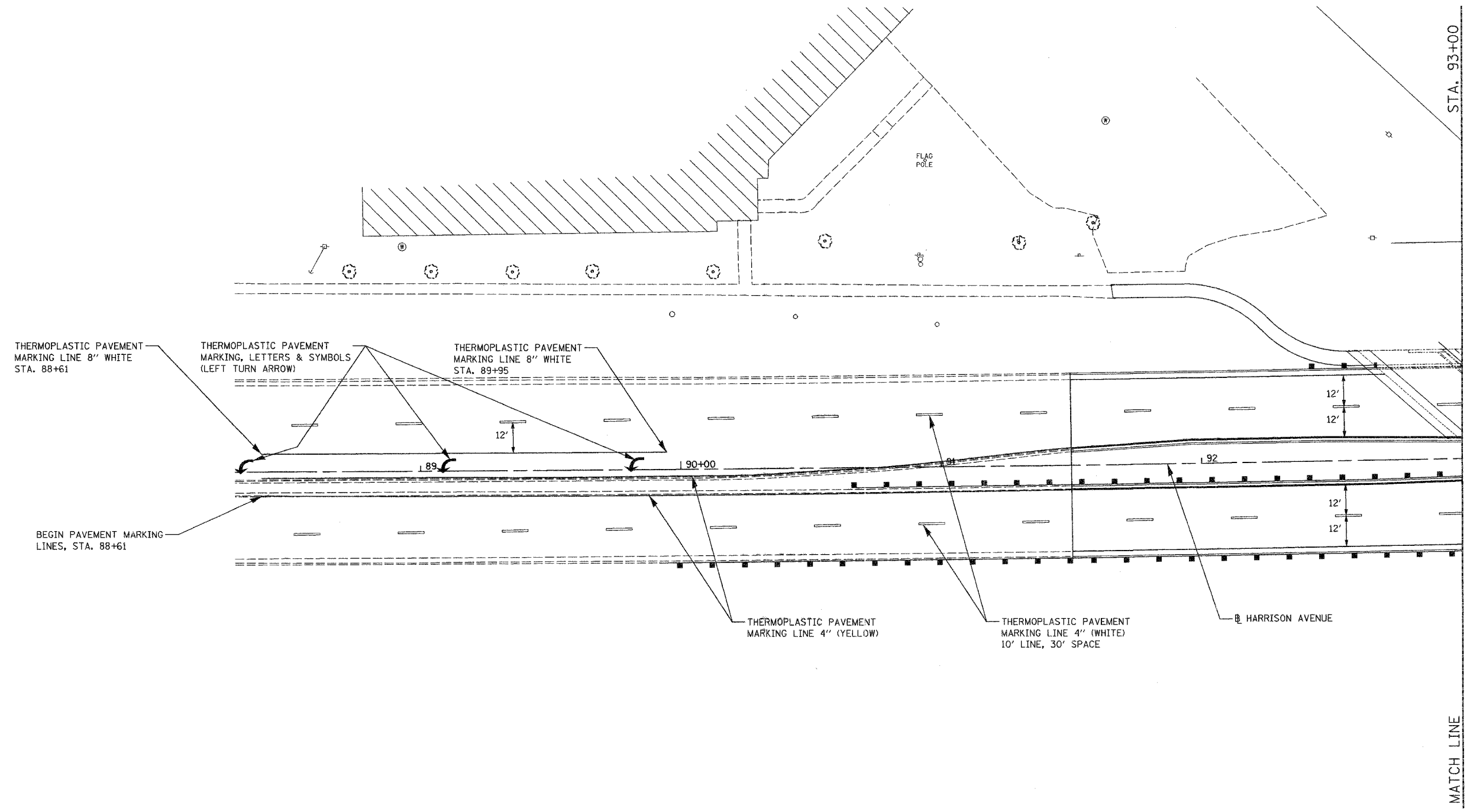
LAYOUT: CPS 05/03/05
 DRAWN: JDM 07/27/05
 REVIEWED: FLN 07/27/05

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	15
STA. 88+00		TO STA. 93+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



HANSON
Hanson Professional Services Inc.

LAYOUT: MMH 06/29/06
 DRAWN: MMH 12/14/06
 REVIEWED: CPS 12/14/06



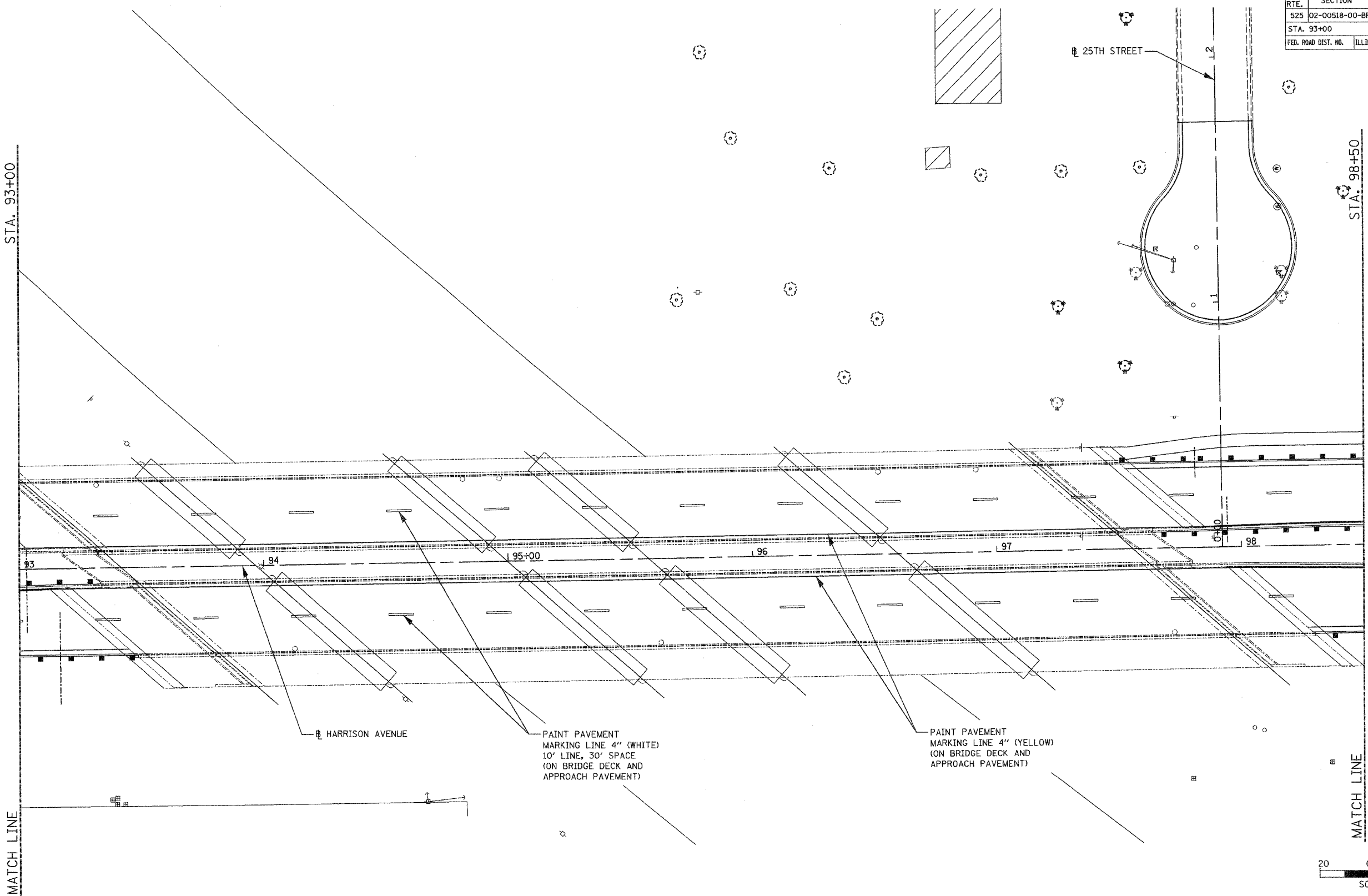
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SECTION 02-00518-00-BR
 WINNEBAGO COUNTY
 HARRISON AVENUE OVER UPRR AND CC&PRR
PAVEMENT MARKING AND SIGNAGE
 SCALE: VERT. _____
 DATE 12/14/06
 DRAWN BY MMH
 CHECKED BY CPS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	16
STA. 93+00		TO STA. 98+50		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

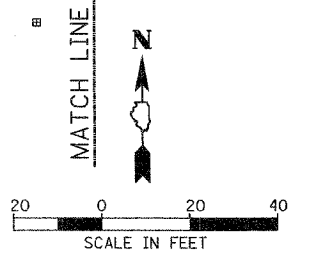


LAYOUT: MWH 10/27/06
 DRAWN: MWH 10/27/06
 REVIEWED: CFS 12/14/06
12/14/06 09:32 AM
 12/14/06 09:32 AM
 12/14/06 09:32 AM



PAINT PAVEMENT MARKING LINE 4" (WHITE) 10' LINE, 30' SPACE (ON BRIDGE DECK AND APPROACH PAVEMENT)

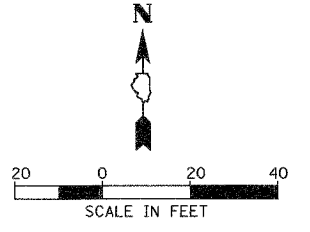
PAINT PAVEMENT MARKING LINE 4" (YELLOW) (ON BRIDGE DECK AND APPROACH PAVEMENT)



REVISIONS	
NAME	DATE

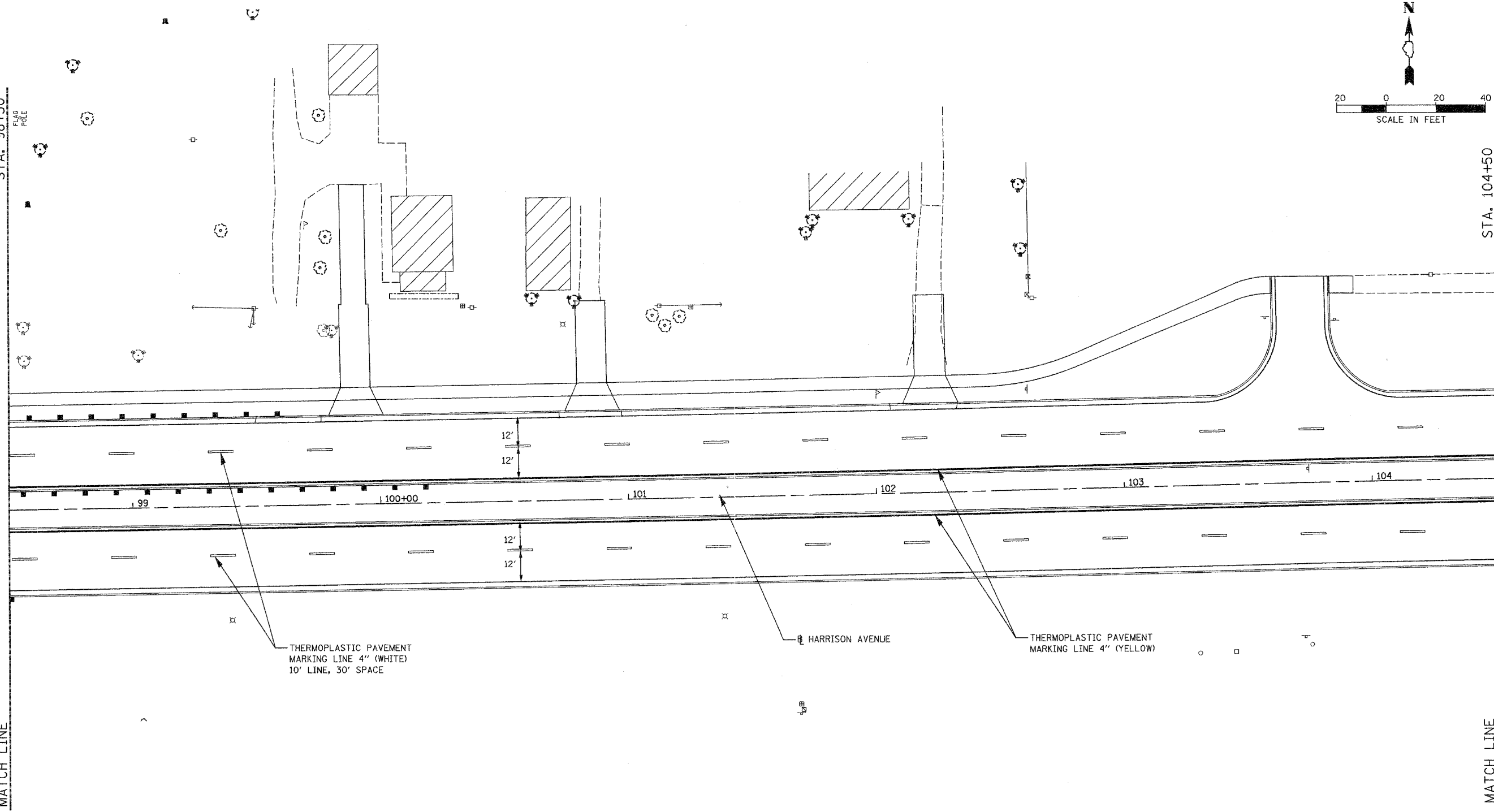
ILLINOIS DEPARTMENT OF TRANSPORTATION
 SECTION 02-00518-00-BR
 WINNEBAGO COUNTY
 HARRISON AVENUE OVER UPRR AND CC&PRR
PAVEMENT MARKING AND SIGNAGE
 SCALE: VERT. _____
 HORIZ. _____
 DATE 12/14/06
 DRAWN BY MWH
 CHECKED BY CFS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	17
STA. 99+50		TO STA. 104+50		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



STA. 98+50
MATCH LINE

STA. 104+50
MATCH LINE



THERMOPLASTIC PAVEMENT MARKING LINE 4" (WHITE) 10' LINE, 30' SPACE

HARRISON AVENUE

THERMOPLASTIC PAVEMENT MARKING LINE 4" (YELLOW)

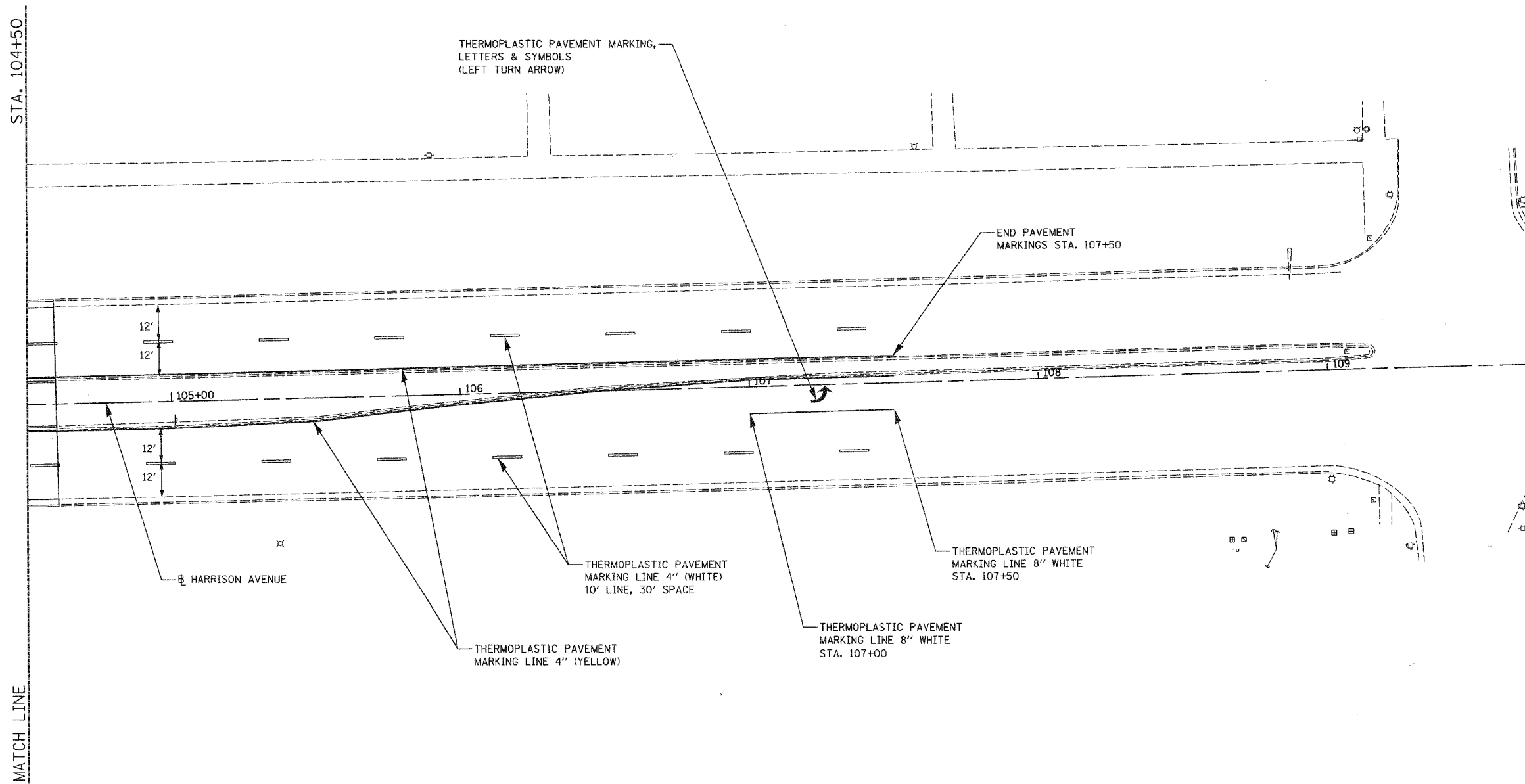
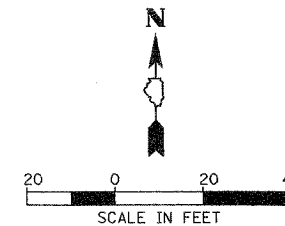


LAYOUT	MWH	05/23/06	mwh
DRAWN	MWH	06/23/06	12/14/2006 09:32 AM
REVIEWED	CPS		\\03\cass\031715\CH\HSP\02-00518-00-BR-PMA.dgn

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SECTION 02-00518-00-BR
WINNEBAGO COUNTY
HARRISON AVENUE OVER UPRR AND CC&PRR
PAVEMENT MARKING AND SIGNAGE
SCALE: VERT. _____
HORIZ. _____
DATE 12/14/06
DRAWN BY MWH
CHECKED BY CPS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	18
STA. 104+50		TO STA. 109+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

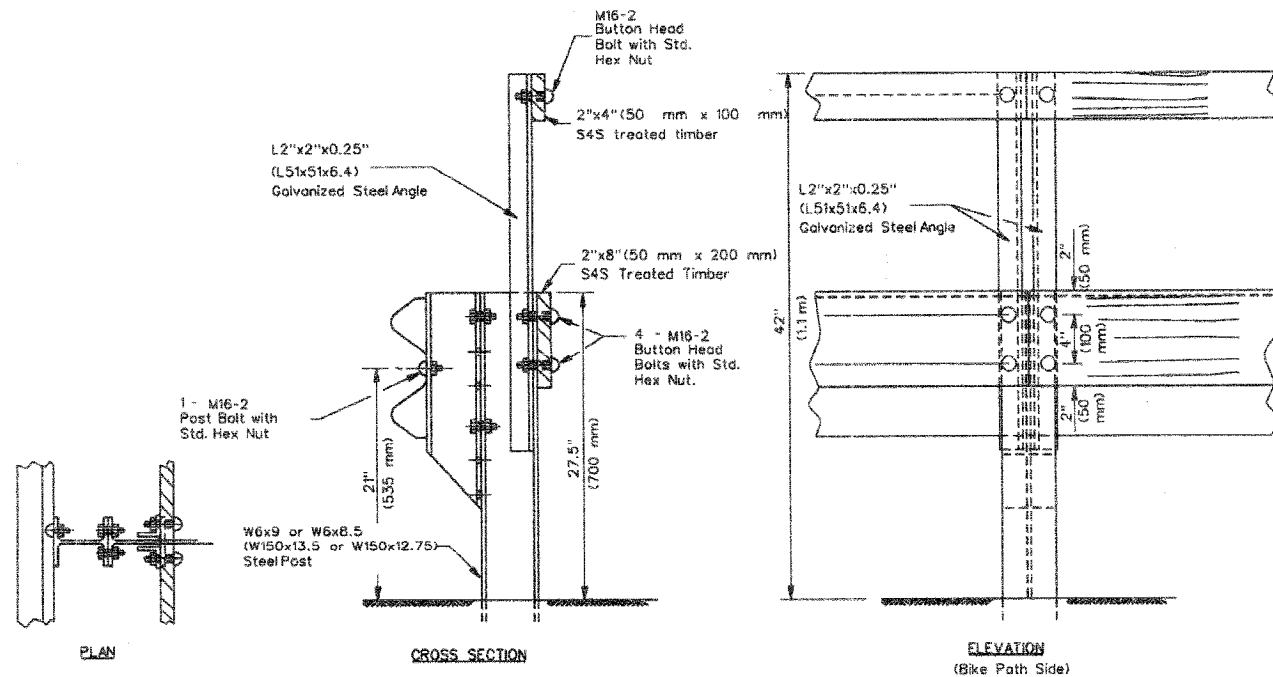
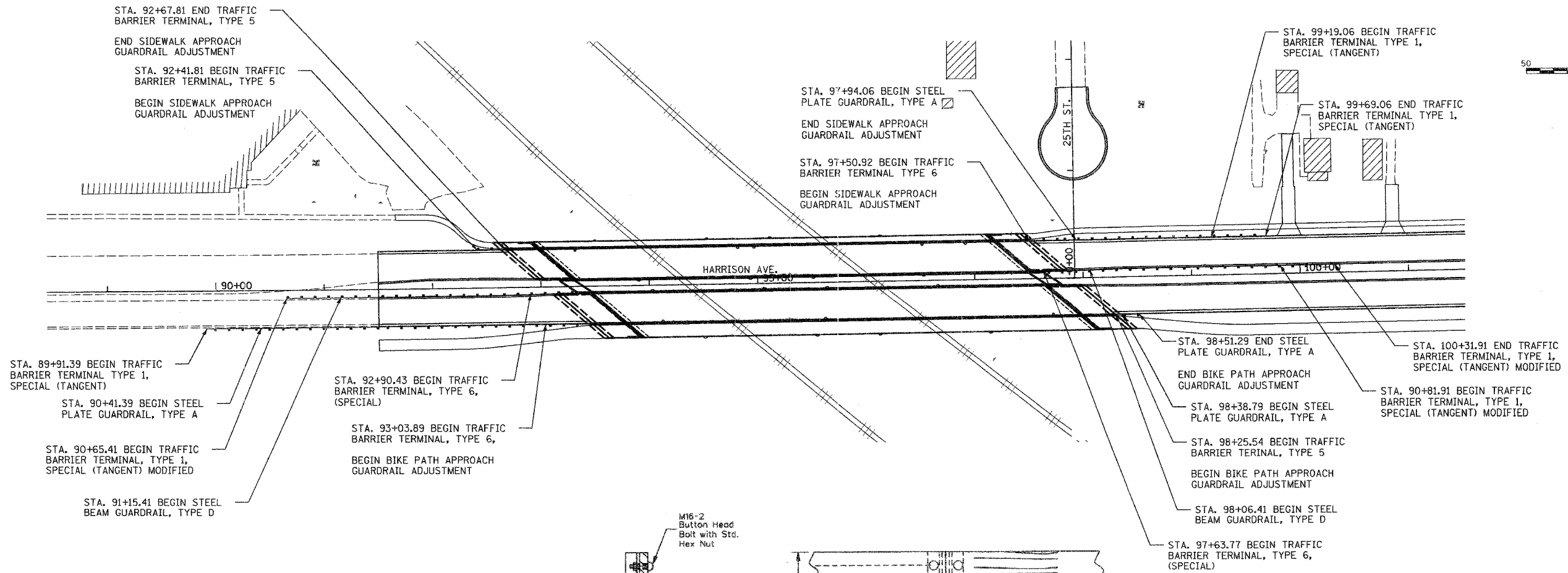
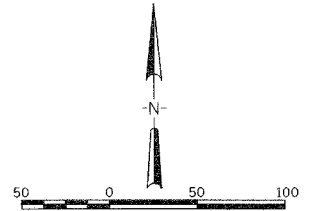


LAYOUT: MMH 06/29/06 mwh
 DRAWN: MMH 06/29/06 12:44:20 PM 06/29/06
 REVIEWED: CPS 11:03:08 AM 07/17/06

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SECTION 02-00518-00-BR
 WINNEBAGO COUNTY
 HARRISON AVENUE OVER UPRR AND CC&PRR
PAVEMENT MARKING AND SIGNAGE
 SCALE: VERT. _____
 HORIZ. _____
 DATE 12/14/06
 DRAWN BY MMH
 CHECKED BY CPS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	19
STA. 88+50		TO STA. 101+50		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



BIKE PATH APPROACH GUARDRAIL ADJUSTMENT
SIDEWALK PATH APPROACH GUARDRAIL ADJUSTMENT
NTS

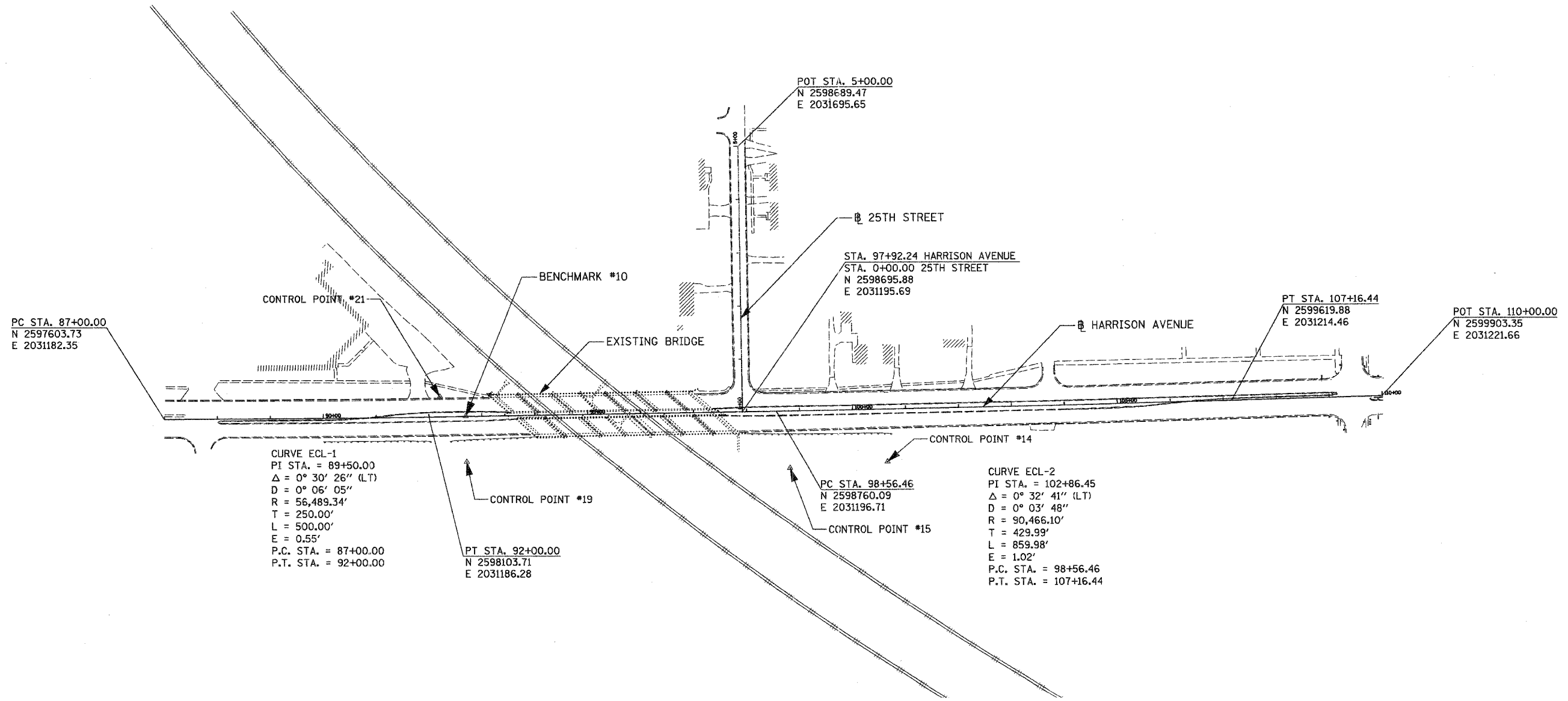
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SECTION 02-00518-00-BR
WINNEBAGO COUNTY
HARRISON AVENUE OVER UPRR AND CC&PRR
GUARDRAIL PLAN
SCALE: VERT. DRAWN BY MWH
 HORIZ. CHECKED BY RXC
DATE 12/14/06



LAYOUT 10/03/06 mwh
DRAWN 10/03/06 12/14/2006 08:33 AM
REVIEWED CPS 10/03/06 10/03/06 03:15:01 AM
C:\p03\085\031715\DWG\Sheet02-00518-00-BR.dwg

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	20
STA. 87+00		TO STA. 110+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



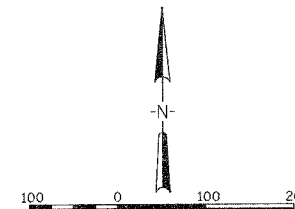
CURVE ECL-1
 PI STA. = 89+50.00
 $\Delta = 0^\circ 30' 26''$ (LT)
 $D = 0^\circ 06' 05''$
 $R = 56,489.34'$
 $T = 250.00'$
 $L = 500.00'$
 $E = 0.55'$
 P.C. STA. = 87+00.00
 P.T. STA. = 92+00.00

CURVE ECL-2
 PI STA. = 102+86.45
 $\Delta = 0^\circ 32' 41''$ (LT)
 $D = 0^\circ 03' 48''$
 $R = 90,466.10'$
 $T = 429.99'$
 $L = 859.98'$
 $E = 1.02'$
 P.C. STA. = 98+56.46
 P.T. STA. = 107+16.44

BENCHMARKS				
B.M. #	STATION	OFFSET	DESCRIPTION	ELEVATION
B.M. #10	92+69.54	0.68' LT	CUT "X" IN MEDIAN	796.63

CONTROL POINTS			
POINT #	NORTHING	EASTING	DESCRIPTION
CP #14	2598969.402	2031100.894	IRON PIN
CP #15	2598785.528	2031089.084	IRON PIN
CP #19	2598174.928	2031101.605	60D NAIL
CP #21	2598124.480	2031224.948	60D NAIL

NOTE:
 BASIS OF BEARING IS GRID NORTH ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST NAD83. VERTICAL DATUM BASED ON NAVD88.



REVISIONS	
NAME	DATE

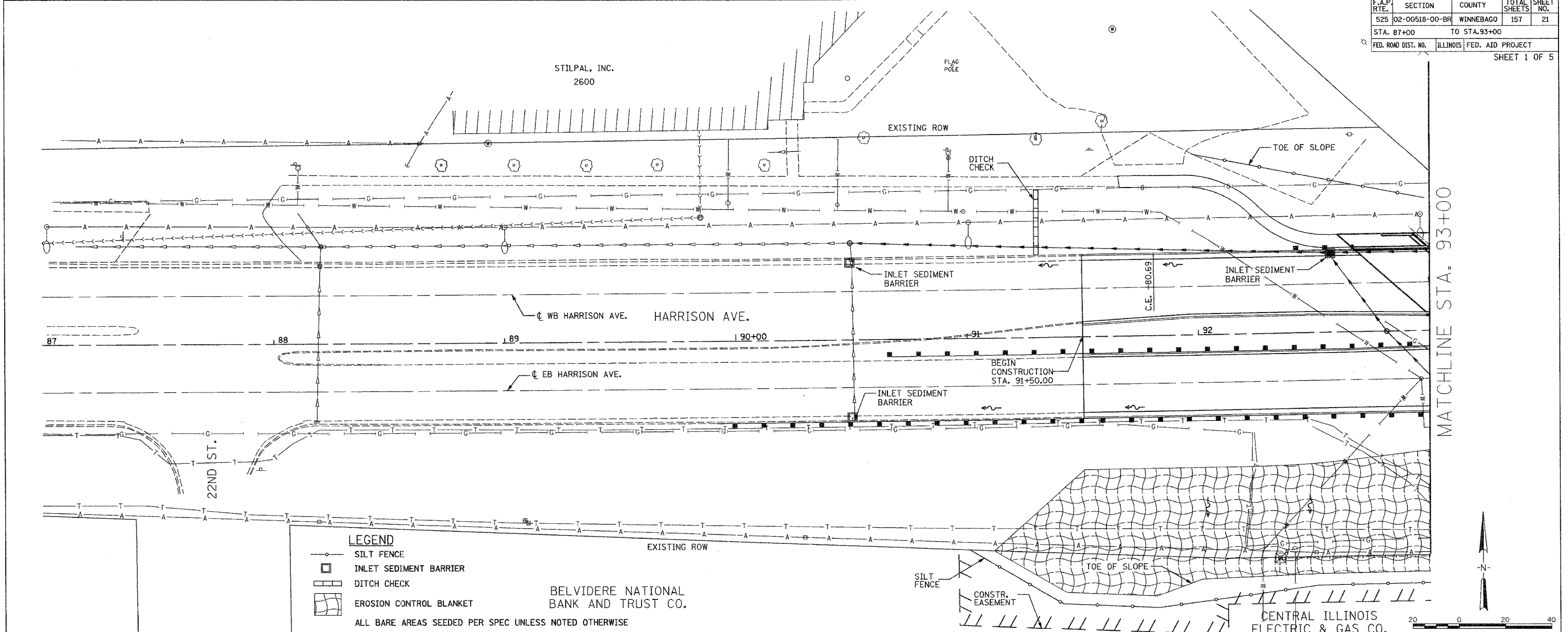
ILLINOIS DEPARTMENT OF TRANSPORTATION
 SECTION 02-00518-00-BR
 WINNEBAGO COUNTY
 HARRISON AVENUE OVER UPRR AND CC&PRR
ALIGNMENT AND BENCHMARKS
 SCALE: VERT. 1"=40'
 HORIZ. 1"=100'
 DATE 12/14/06
 DRAWN BY
 CHECKED BY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	21
STA. 87+00		TO STA. 93+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PLOTTED BY: [blank]
 DATE: [blank]
 CHECKED BY: [blank]
 DATE: [blank]
 DRAWN BY: [blank]
 DATE: [blank]

HANSON
 Professional Services Inc.

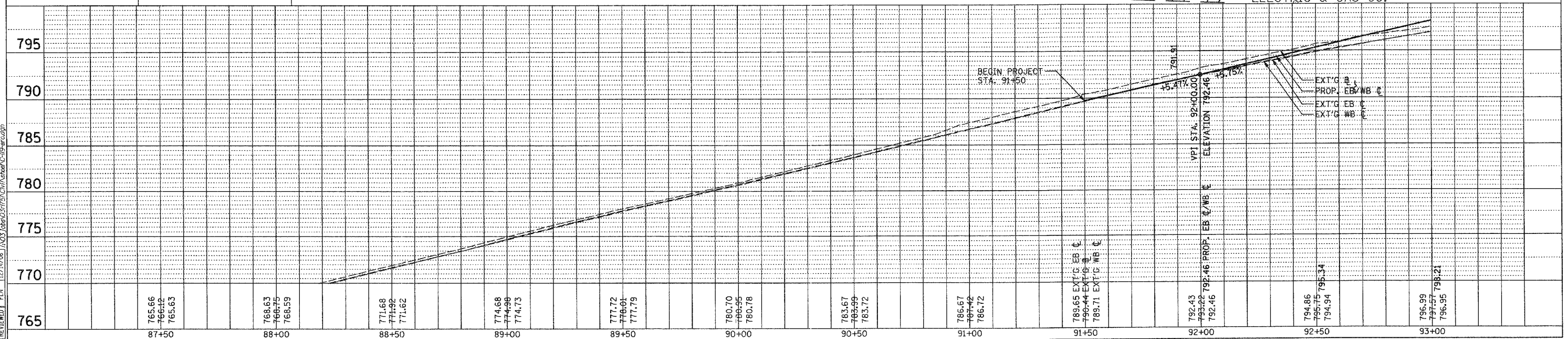
LAYOUT: [blank]
 DATE: 05/03/05
 DRAWN: JOM
 DATE: 12/14/06
 REVIEWED: FLN
 DATE: 12/14/06
 PROJECT: 02-00518-00-BR



LEGEND

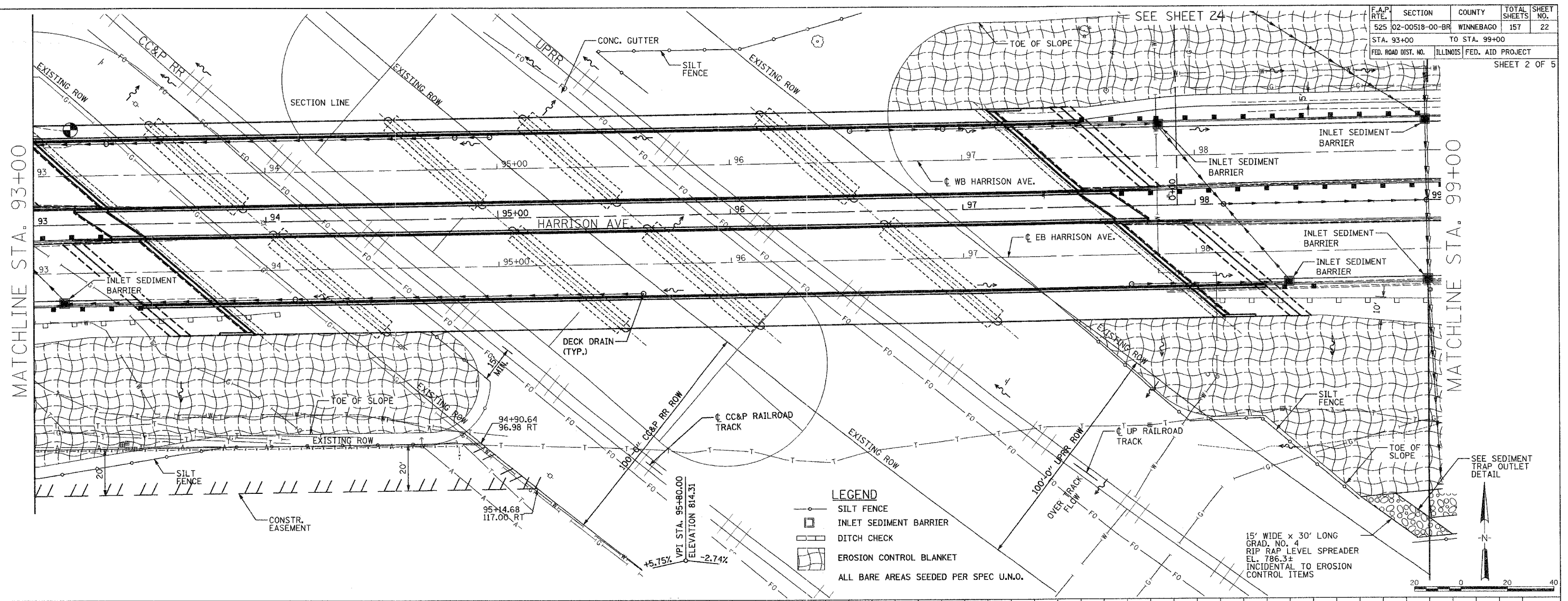
- SILT FENCE
- INLET SEDIMENT BARRIER
- DITCH CHECK
- EROSION CONTROL BLANKET

ALL BARE AREAS SEEDED PER SPEC UNLESS NOTED OTHERWISE

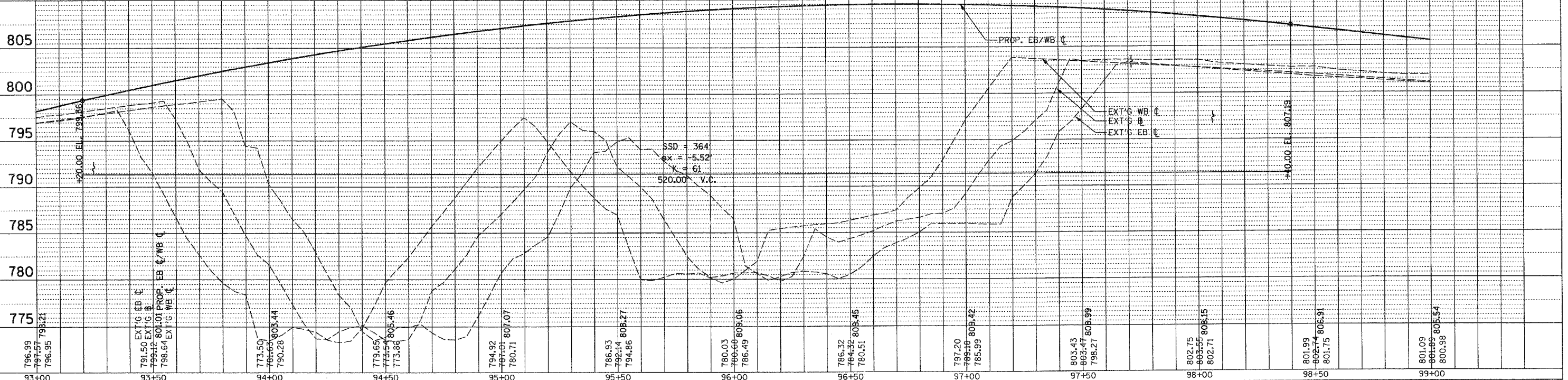
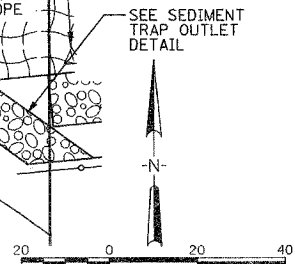


EROSION CONTROL PLAN

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	22
STA. 93+00	TO STA. 99+00			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
SHEET 2 OF 5				



- LEGEND**
- SILT FENCE
 - INLET SEDIMENT BARRIER
 - DITCH CHECK
 - EROSION CONTROL BLANKET
 - ALL BARE AREAS SEEDED PER SPEC U.N.O.



EROSION CONTROL PLAN

HANSON
Hanson Professional Services Inc.

PLotted: _____
Graded: _____
Checked: _____
Structure: _____
Notations: _____

NOTE BOOK NO. _____

PLotted: _____
Graded: _____
Checked: _____
Structure: _____
Notations: _____

NOTE BOOK NO. _____

LAYOUT: _____
DRAWN: _____
REVIEWED: _____

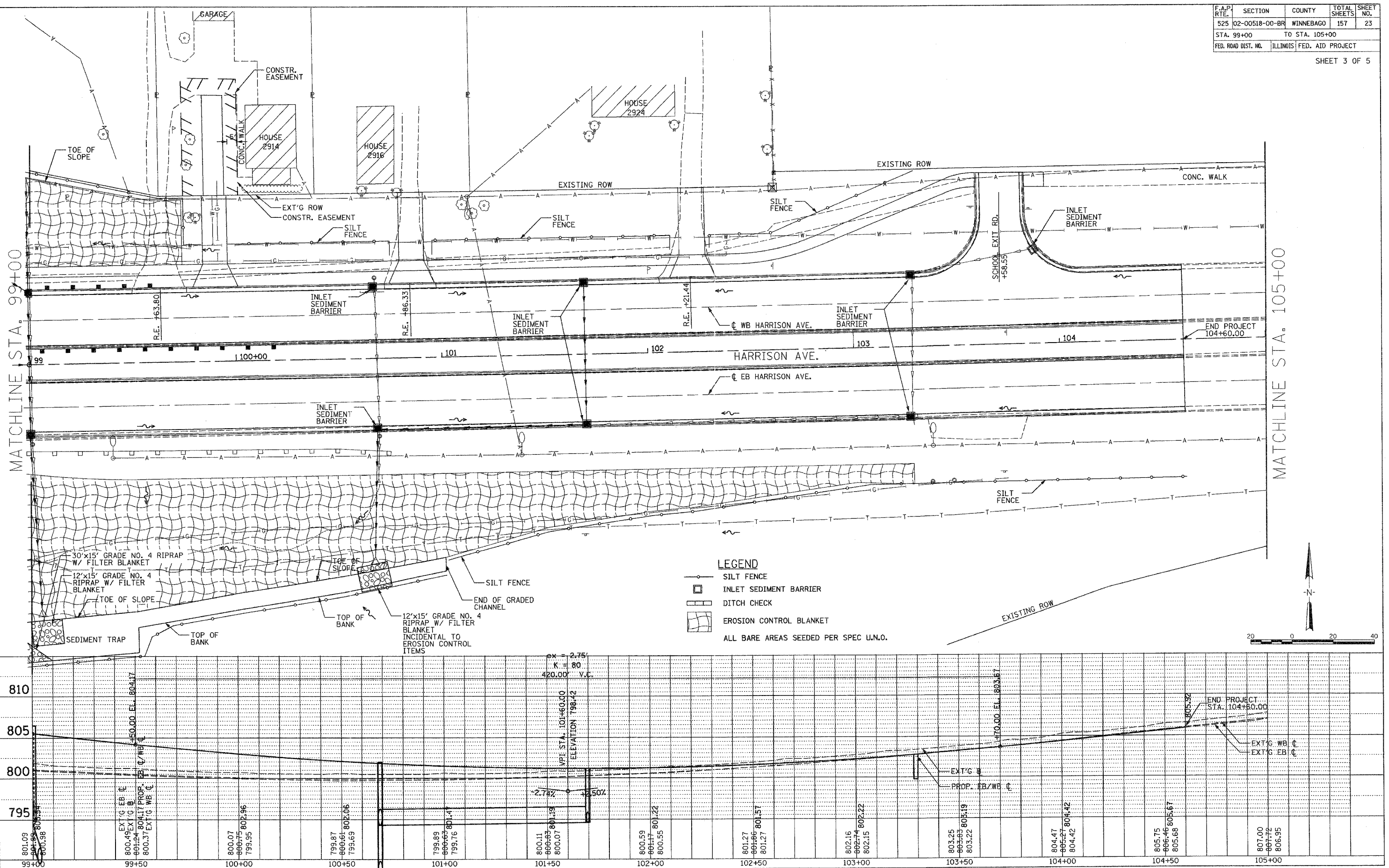
CPS: 06/03/05
JDM: 01/31/06
ELN: 01/31/06

12/14/2005 10:45 AM
12/14/2005 10:03 AM
12/14/2005 10:03 AM

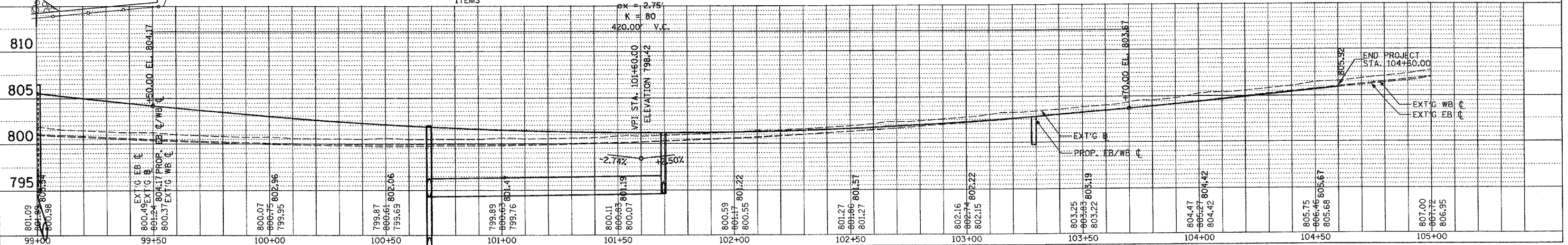
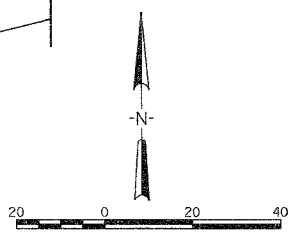
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	23
STA. 99+00		TO STA. 105+00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

PLOTTED: _____
 GRADES CHECKED: _____
 STRUCTURE NOTATIONS CHD: _____
 NOTE BOOK NO. _____
 PLOTTED: _____
 GRADES CHECKED: _____
 STRUCTURE NOTATIONS CHD: _____
 NOTE BOOK NO. _____

HANSON
 Hanson Professional Services Inc.



- LEGEND**
- SILT FENCE
 - INLET SEDIMENT BARRIER
 - ▭ DITCH CHECK
 - ▭ EROSION CONTROL BLANKET
 - ALL BARE AREAS SEED PER SPEC U.N.O.



EROSION CONTROL PLAN

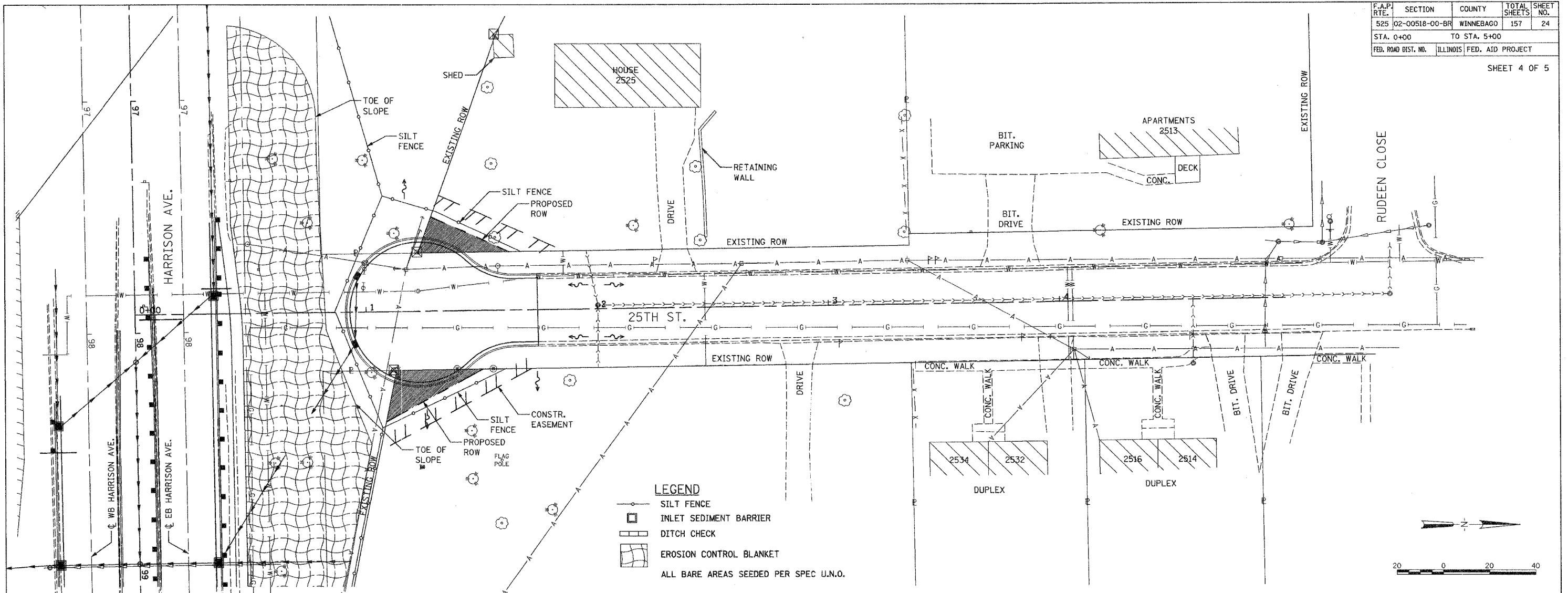
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	24
STA. 0+00		TO STA. 5+00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SHEET 4 OF 5

PLOTTED: 05/07/05
 DRAWN: JIM
 CHECKED: JIM
 DESIGNED: JIM
 NO. 12/14/06
 FILE: 12/14/06

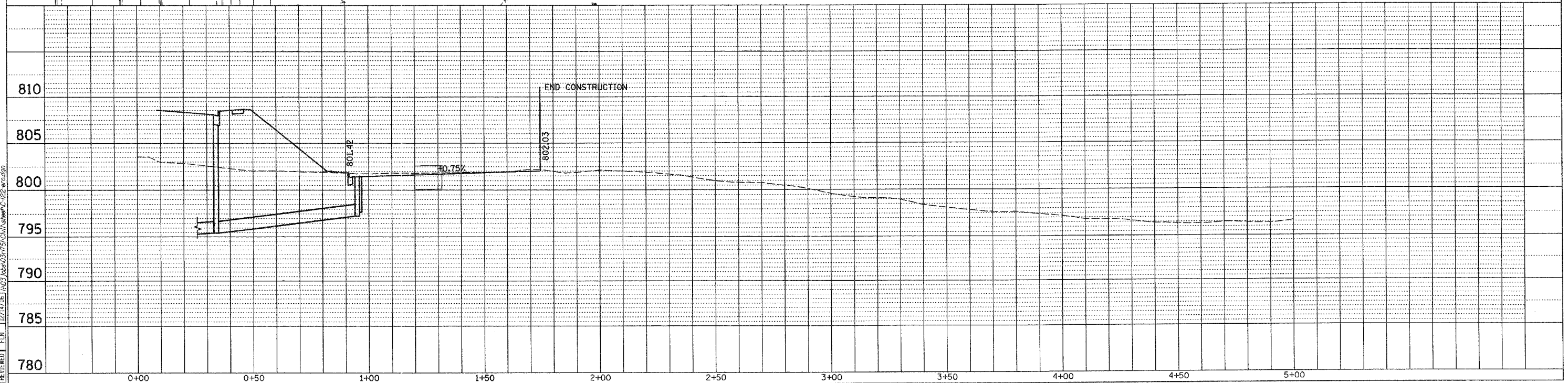
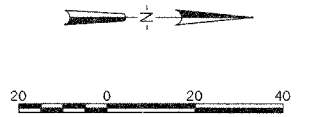
PLOTTED: 05/07/05
 BRIDGE CHECKED: JIM
 STRUCTURE RETAINING CHECK: JIM
 NO. 12/14/06
 FILE: 12/14/06

HANSON
 Hanson Professional Services Inc.



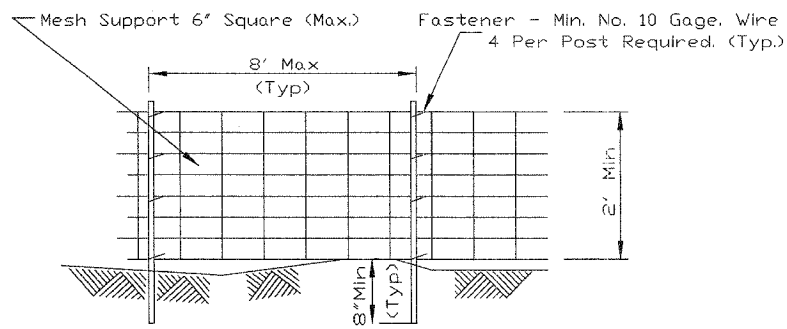
LEGEND

- SILT FENCE
- INLET SEDIMENT BARRIER
- DITCH CHECK
- ▨ EROSION CONTROL BLANKET
- ALL BARE AREAS SEEDED PER SPEC U.N.O.

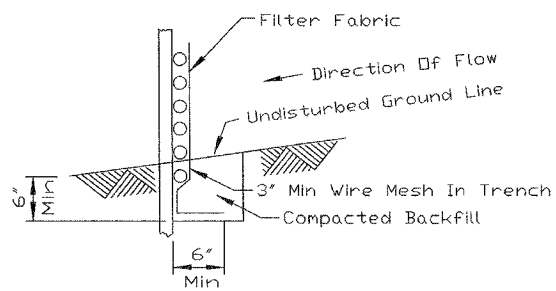


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	25
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SILT FENCE WITH WIRE SUPPORT PLAN



ELEVATION



FABRIC ANCHOR DETAIL

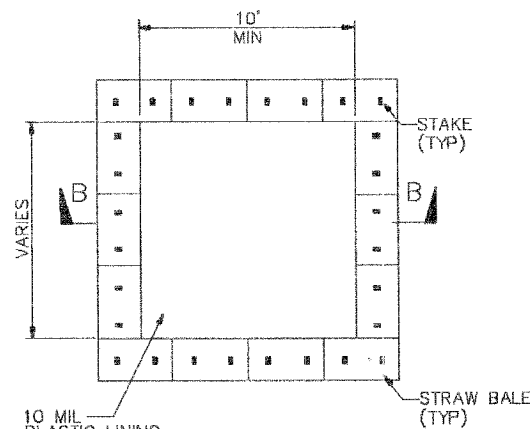
NOTES:

1. Wires of mesh support shall be min. gage no. 12.
2. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
3. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class I with equivalent opening size of at least 30 for nonwoven and 50 for woven.
4. Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.

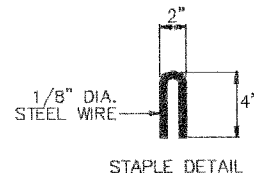
REFERENCE	Project	Date
	Designed	Date
	Checked	Date
	Approved	Date



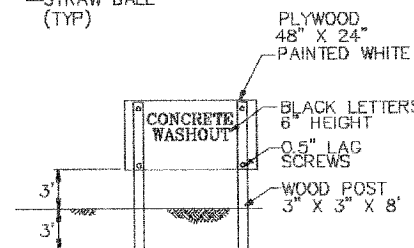
STANDARD DWG. NO.	IL-620W
SHEET	1 OF 2
DATE	3-3-95



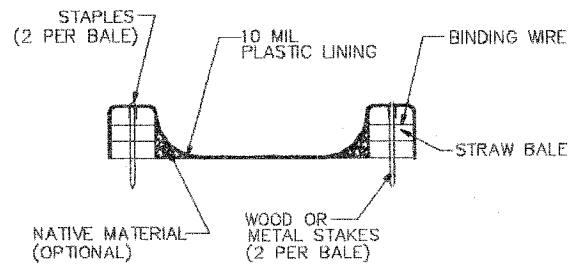
PLAN NOT TO SCALE TYPE "ABOVE GRADE" WITH STRAW BALES



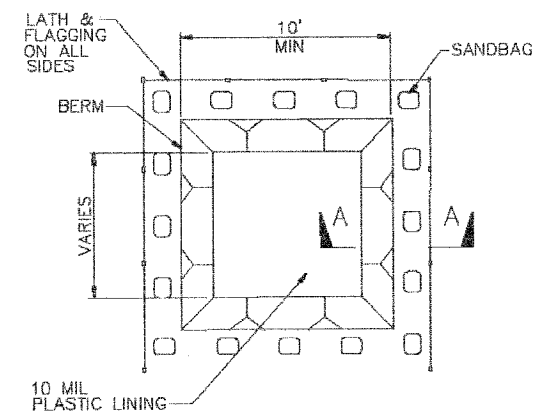
STAPLE DETAIL



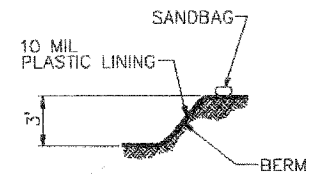
CONCRETE WASHOUT SIGN DETAIL (OR EQUIVALENT)



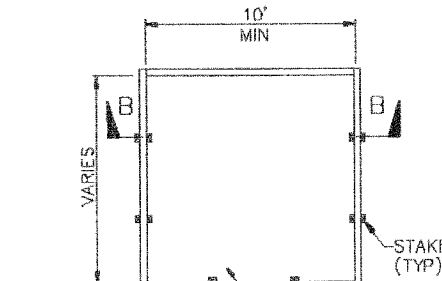
SECTION B-B NOT TO SCALE



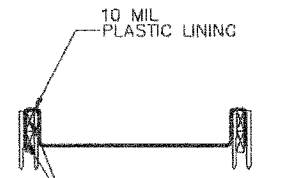
PLAN NOT TO SCALE TYPE "BELOW GRADE"



SECTION A-A NOT TO SCALE



PLAN NOT TO SCALE TYPE "ABOVE GRADE"



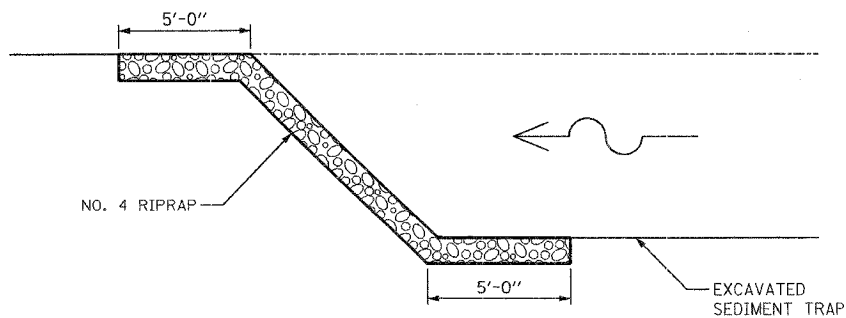
WOOD FRAME SECURELY FASTENED AROUND ENTIRE PERIMETER WITH TWO STAKES

SECTION B-B NOT TO SCALE

NOTES

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

CONCRETE WASTE MANAGEMENT DETAILS



SEDIMENT TRAP OUTLET DETAIL

REVISIONS	
NAME	DATE

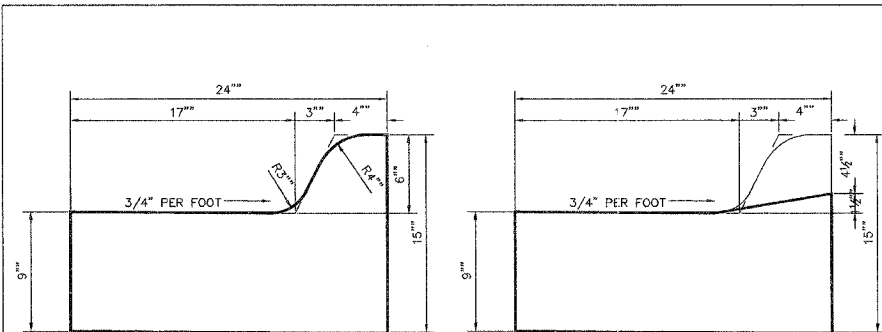
ILLINOIS DEPARTMENT OF TRANSPORTATION
SECTION 02-00518-00-BR
WINNEBAGO COUNTY
HARRISON AVENUE OVER UPRR AND CC&PRR

EROSION CONTROL DETAILS

SCALE: VERT. HORIZ.
DATE 12/14/06

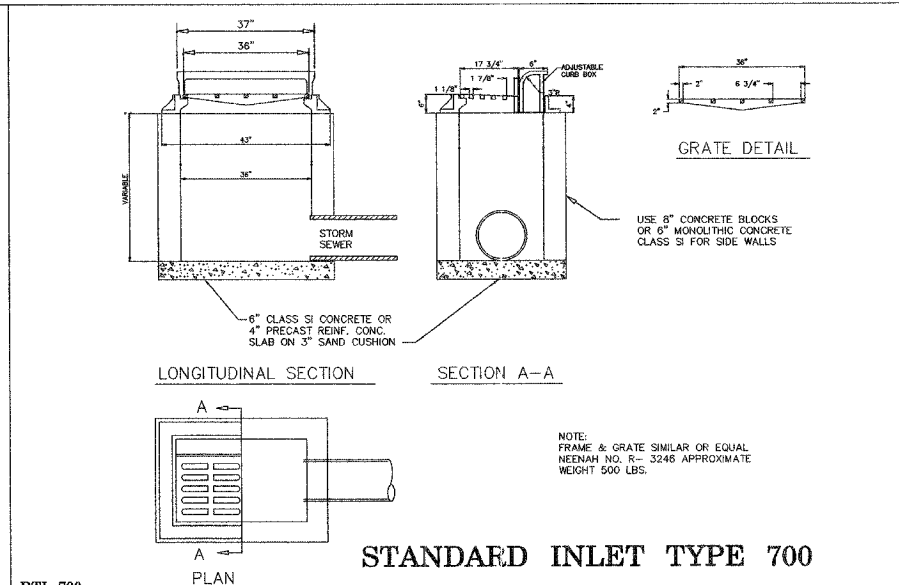
DRAWN BY JDM
CHECKED BY CPS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	26
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



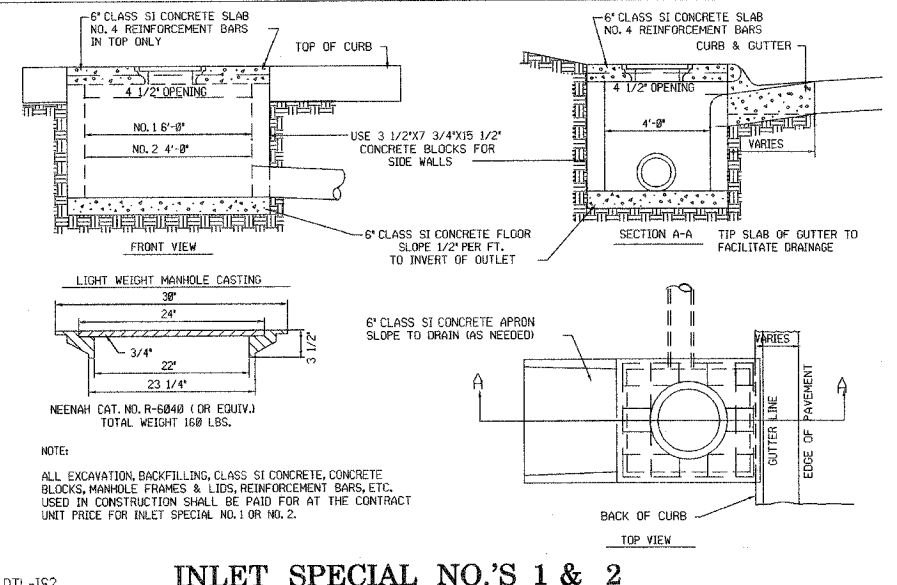
Combination Concrete Curb & Gutter, Type M6.18 Modified

DTL-CURB M6.18



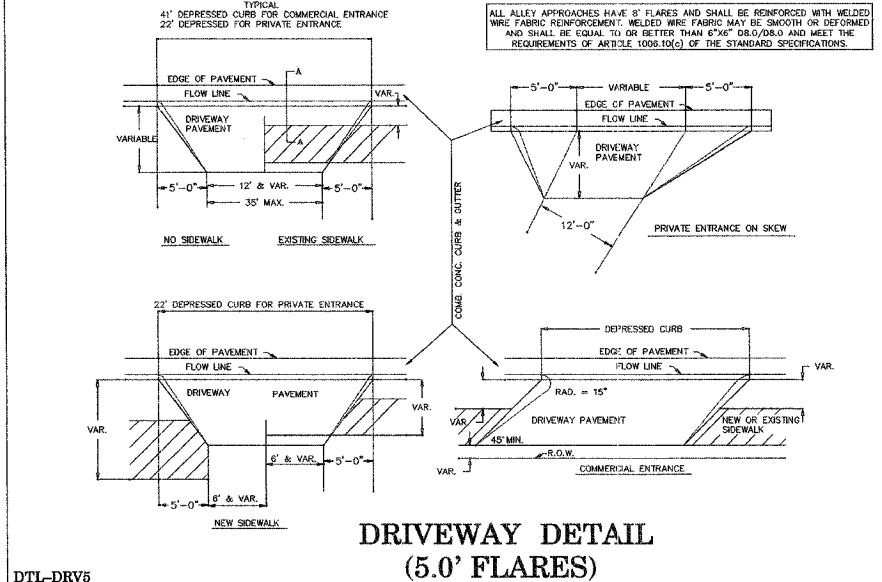
STANDARD INLET TYPE 700

DTL-700



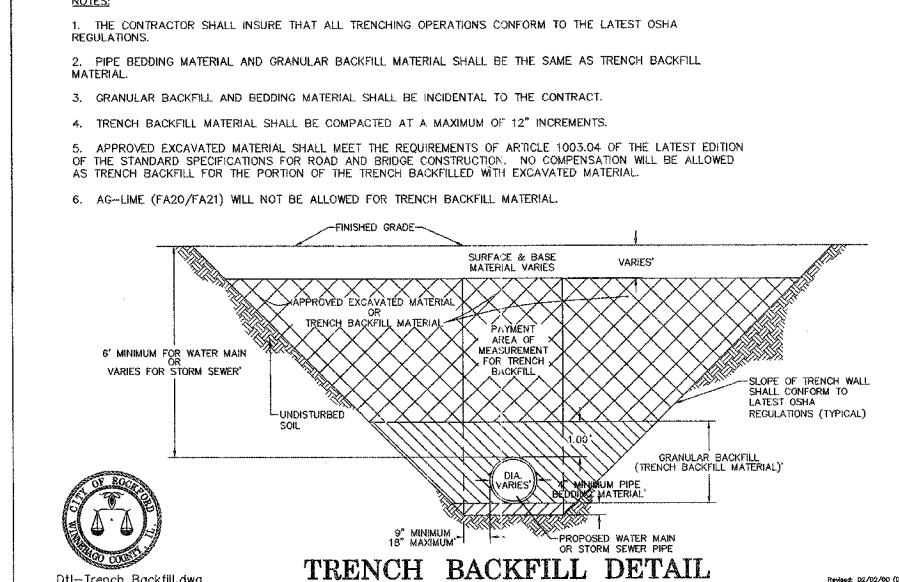
INLET SPECIAL NO.'S 1 & 2

DTL-IS2



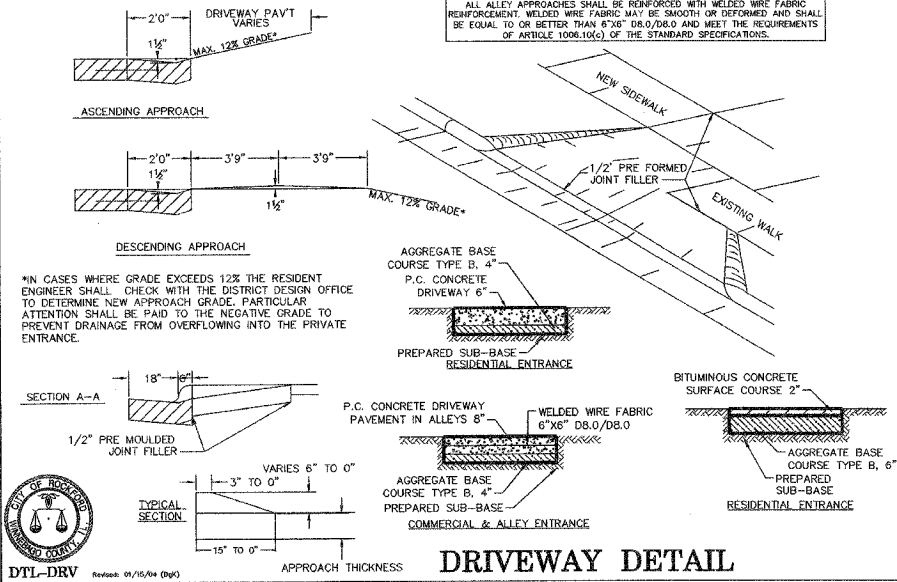
DRIVEWAY DETAIL (5.0' FLARES)

DTL-DRV5



TRENCH BACKFILL DETAIL

DTL-Trench Backfill.dwg



DRIVEWAY DETAIL

DTL-DRV

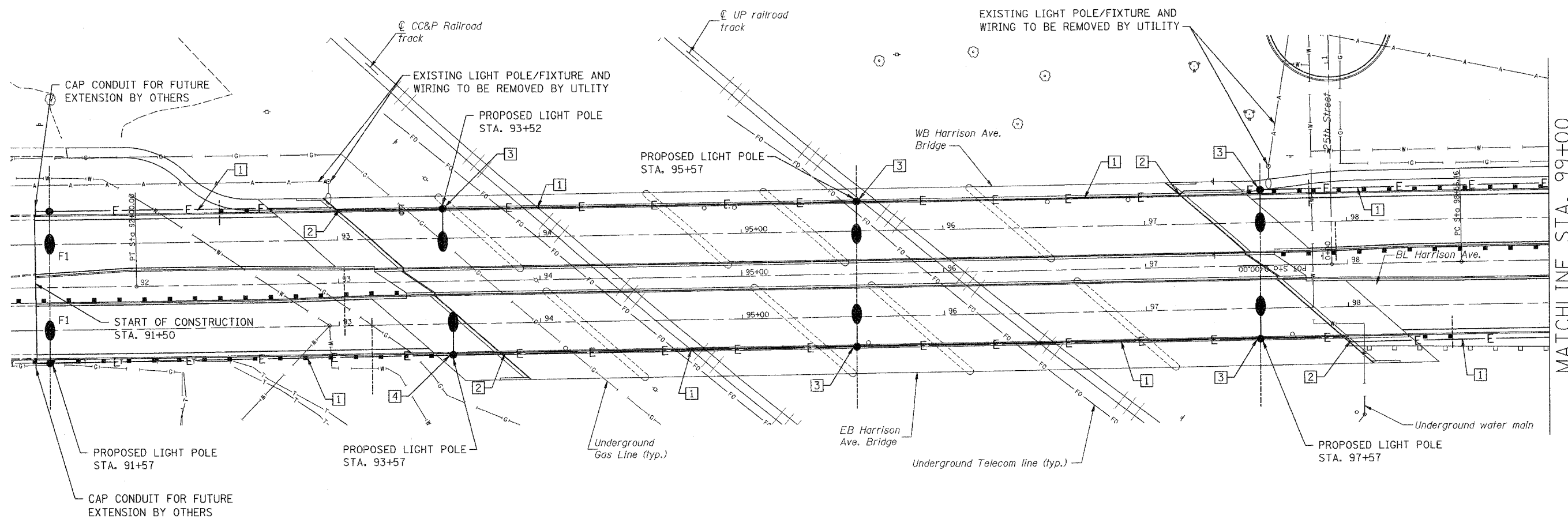
HANSON Professional Services Inc.

LAYOUT: CPS 01/03/05
DRAWN: JDM 12/14/06
REVIEWED: CPS 12/14/06

REVISIONS	
NAME	DATE

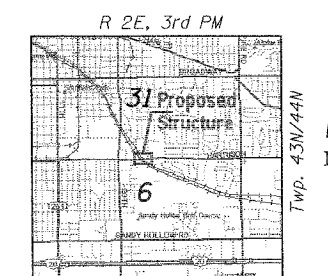
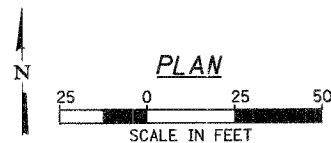
ILLINOIS DEPARTMENT OF TRANSPORTATION
SECTION 02-00518-00-BR
WINNEBAGO COUNTY
HARRISON AVENUE OVER UPRR AND CC&PRR
CITY OF ROCKFORD
STANDARD DETAILS
SCALE: VERT. DRAWN BY JDM
HORIZ. CHECKED BY CPS
DATE 12/14/06

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO. 1
FAP 0525		WINNEBAGO	187 27	5 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
• 02-00518-00-BR				



KEYED NOTES:

- 1 2" C. (SCHED. 40 PVC)
- 2 JUNCTION BOX BELOW BRIDGE ON ABUTMENT - REFER TO DETAIL ON LIGHTING SHEET L5.
- 3 PROVIDE TYPE F1 AND F2 LIGHT FIXTURES ON BRIDGE LIGHT POLES ONLY. REFER TO MOUNTING DETAIL ON SHEET L4.
- 4 PROVIDE TYPE F1 AND F2 LIGHT FIXTURES ON APPROACH PAVEMENT PARAPET. REFER TO MOUNTING DETAIL ON SHEET L4.



LOCATION SKETCH

SUMMARY OF QUANTITIES - HARRISON AVENUE BRIDGE		
CONDUIT IN TRENCH, 2" DIA., PVC	LIN. FT.	1800
CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	LIN. FT.	845
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE 18" x 12" x 6"	EACH	4
TRENCH AND BACKFILL FOR ELECTRIC WORK	LIN. FT.	1800
LUMINAIRE, PULSE START, METAL HALIDE, 400W	EACH	14
LUMINAIRE, PULSE START, METAL HALIDE, 150W	EACH	6
LIGHT POLE, ALUMINUM, 40 FT. M.H., 10 FT. MAST ARM	EACH	14
LIGHT POLE FOUNDATION	EACH	8
CONDUIT, FLEXIBLE METALLIC, WEATHERPROOF, 2"	EACH	4

THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING THE SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF HIS OPERATIONAL PLANS AND SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY SUCH MAINS AND SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

CONTACT JOINT UTILITY LOCATING INFORMATION FOR EXCAVATING (JULIE) 1-800-892-0123 FOR UTILITY INFORMATION.

Corporate License Number 184-001-084

BRIDGE LIGHTING PLAN

**HARRISON AVENUE BRIDGE
OVER UP & CC&P RAILROAD
F.A.P. ROUTE 0525
SECTION 02-00518-00-BR
ROCKFORD, ILLINOIS
WESTBOUND STRUCTURE NO. 101-6109
EASTBOUND STRUCTURE NO. 101-6111**

© Copyright Hanson Professional Services Inc. 2005

L1

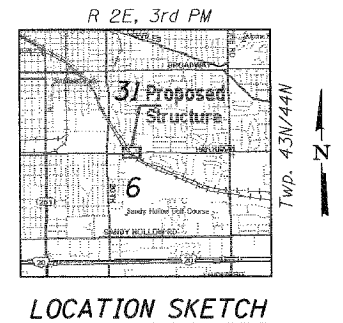
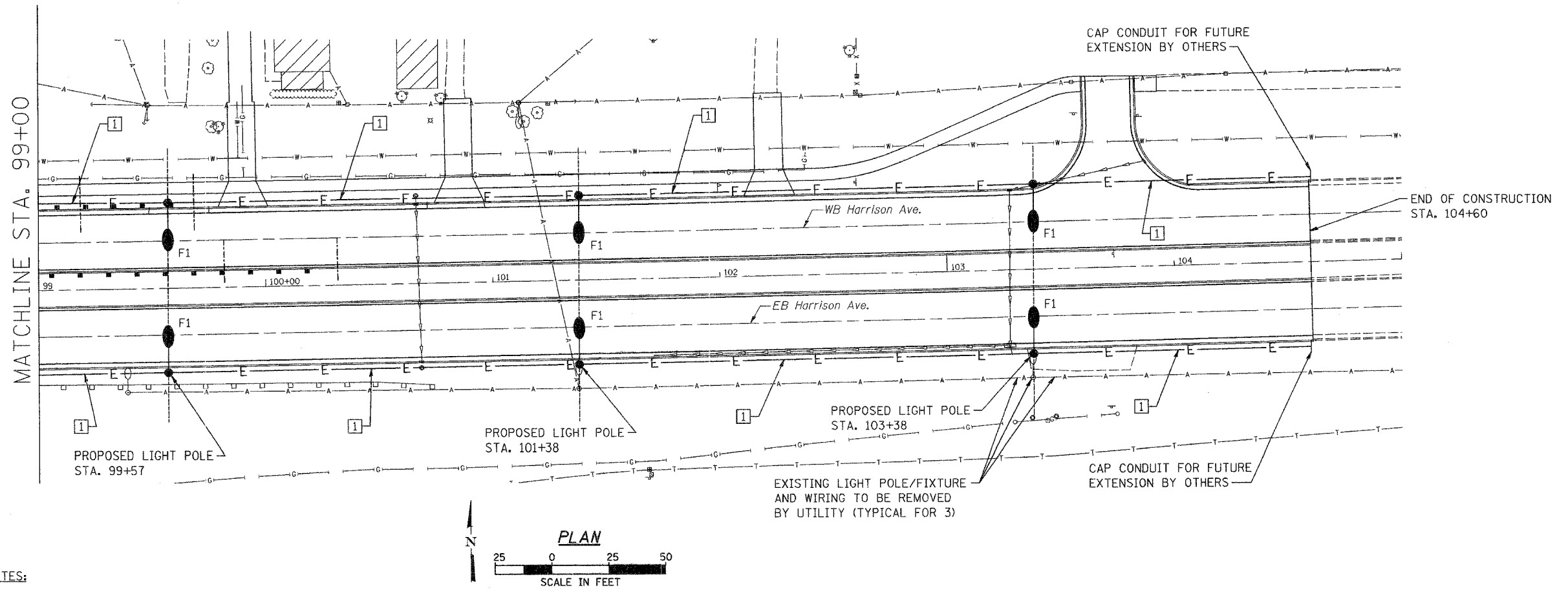


JOB NO.
03R1751

DATE
07/18/06

7/18/06 AM
 12:14:00:06.0718 AM
 IN03 00518-00-BR Harrison Avenue Bridge Lighting Plan.dwg
 LAYOUT
 PJT 07/14/06
 DRAIN 07/14/06
 REVIEWED PJT 07/14/06

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO.
FAP 0525	*	WINNEBAGO	157	28
FED. ROAD DIST. NO. 7		ALIGNMENT	FED. ROAD PROJECT	
02-00518-00-BR				



THE LOCATION, SIZE AND TYPE OF MATERIAL OF EXISTING UNDERGROUND UTILITIES INDICATED ON THE PLANS IS NOT REPRESENTED AS BEING ACCURATE, SUFFICIENT OR COMPLETE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES, INCLUDING THE SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES OF HIS OPERATIONAL PLANS AND SHALL OBTAIN FROM THE RESPECTIVE UTILITY COMPANIES DETAILED INFORMATION AND ASSISTANCE RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULE OF THE COMPANIES FOR REMOVAL OR ADJUSTMENT WHERE REQUIRED. IN THE EVENT AN UNEXPECTED UTILITY INTERFERENCE IS ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY COMPANY OF JURISDICTION. THE ENGINEER SHALL ALSO BE IMMEDIATELY NOTIFIED. ANY SUCH MAINS AND SERVICES SHALL BE RESTORED TO SERVICE AT ONCE AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

CONTACT JOINT UTILITY LOCATING INFORMATION FOR EXCAVATING (JULIE) 1-800-892-0123 FOR UTILITY INFORMATION.

Corporate License Number 184-001-084

ROADWAY LIGHTING PLAN

HARRISON AVENUE BRIDGE
 OVER UP & CC&P RAILROAD
 F.A.P. ROUTE 0525
 SECTION 02-00518-00-BR
 ROCKFORD, ILLINOIS
 WESTBOUND STRUCTURE NO. 101-6109
 EASTBOUND STRUCTURE NO. 101-6111

© Copyright Hanson Professional Services Inc. 2005

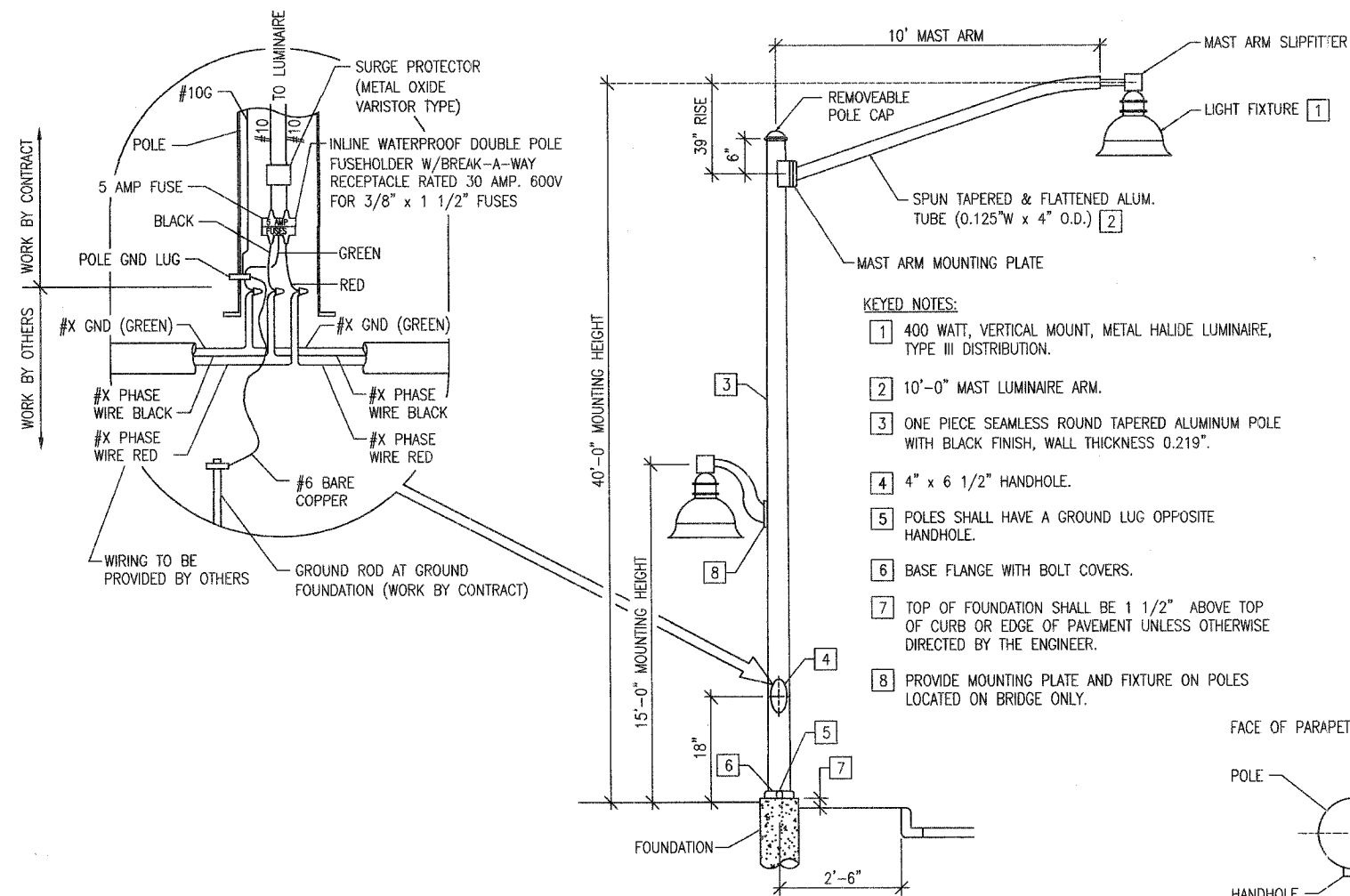
L2



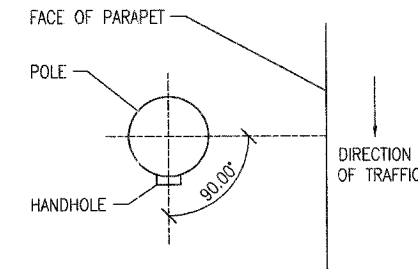
03R1751

DATE 07/18/06

7:56:25 AM
 C:\p0000\0714\06
 R02\0000\0714\06\Struct\Lighting\PLD\1212-06-EC02.dwg
 LAYOUT: PLOT 07/14/06
 DRAWN: ANC 07/14/06
 REVIEWED: PJT 07/14/06



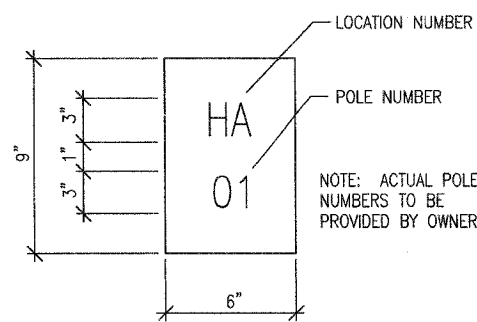
- KEYED NOTES:**
- 400 WATT, VERTICAL MOUNT, METAL HALIDE LUMINAIRE, TYPE III DISTRIBUTION.
 - 10'-0" MAST LUMINAIRE ARM.
 - ONE PIECE SEAMLESS ROUND TAPERED ALUMINUM POLE WITH BLACK FINISH, WALL THICKNESS 0.219".
 - 4" x 6 1/2" HANDHOLE.
 - POLES SHALL HAVE A GROUND LUG OPPOSITE HANDHOLE.
 - BASE FLANGE WITH BOLT COVERS.
 - TOP OF FOUNDATION SHALL BE 1 1/2" ABOVE TOP OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
 - PROVIDE MOUNTING PLATE AND FIXTURE ON POLES LOCATED ON BRIDGE ONLY.



LIGHTING UNIT DETAIL
SCALE: NONE

HANDHOLE ORIENTATION DETAIL
SCALE: NONE

ILLINOIS DEPARTMENT OF TRANSPORTATION LUMINAIRE PERFORMANCE TABLE		
GIVEN CONDITIONS		
ROADWAY DATA:	PAVEMENT WIDTHS	72 FT
	NUMBER OF LANES	4 + PATHWAY
	MEDIAN WIDTH	14 FT
	IES SURFACE CLASSIFICATION	R1
	Q-ZERO VALUE	0.10
LIGHT POLE DATA:	MOUNTING HEIGHT	40 FT
	MAST ARM LENGTH	10 FT
	POLE SET-BACK FROM EDGE OF PAVEMENT	5 FT
LUMINAIRE DATA:	LAMP TYPE	400W CLEAR MH
	LAMP LUMENS	44,000
	IES VERTICAL DISTRIBUTION	MEDIUM
	IES CONTROL OF DISTRIBUTION	CUTOFF
	IES LATERAL DISTRIBUTION	TYPE III
	TOTAL LIGHT LOSS FACTOR	0.525
LAYOUT DATA:	SPACING	200 FT
	CONFIGURATION	SINGLE HEAD POLE MOUNT
	LUMINAIRE OVERHANG OVER EDGE OF PAVEMENT LINE	5 FT
NOTE: VARIATIONS FROM THE ABOVE SPECIFIED IES DISTRIBUTION PATTERN MAY BE REQUESTED AND ACCEPTANCE OF VARIATIONS WILL BE SUBJECT TO REVIEW BY THE ENGINEER BASED ON HOW WELL THE PERFORMANCE REQUIREMENTS ARE MET.		
PERFORMANCE REQUIREMENTS		
NOTE: THESE PERFORMANCE REQUIREMENTS SHALL BE THE MINIMUM ACCEPTABLE STANDARDS OF PHOTOMETRIC PERFORMANCE FOR THE LUMINAIRE, BASED ON THE GIVEN CONDITIONS LISTED ABOVE.		
ILLUMINATION:	AVERAGE HORIZONTAL ILLUMINATION, (EAVE)	1.3 FC
	UNIFORMITY RATIO, (EAVE/EMIN)	2.2
LUMINANCE:	AVERAGE LUMINANCE: (LAVE)	1.5 Cd/m2
	UNIFORMITY RATIOS: (LAVE/LMIN)	1.5
	(LMAX/LMIN)	2.3
	MAXIMUM VEILING LUMINANCE RATIO: (LV/LAVE)	0.2



THE CONTRACTOR SHALL FURNISH AND INSTALL A LIGHT POLE IDENTIFICATION ON EACH NEW LIGHT POLE, AS SHOWN ABOVE, COST INCLUDED IN THE RESPECTIVE LIGHT POLE PAY ITEM. THE NUMERALS SHALL BE 3 IN. SERIES "D", BLACK, SCREENED ON SILVER-WHITE TYPE B PRESSURE SENSITIVE REFLECTIVE SHEETING CONFORMING TO THE REQUIREMENTS OF SECTION T602.01 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS. THE NUMERALS SHALL CONFORM TO THE FHWA "STANDARD ALPHABETS FOR HIGHWAY SIGNS".

THE LIGHT POLE IDENTIFICATION SHALL BE APPLIED TO SIGN BASE MATERIAL AS SPECIFIED IN SECTION 1069.02 OF THE STANDARD SPECIFICATIONS, APPROXIMATELY 7 FT. ABOVE THE ADJACENT PAVEMENT GRADE VISIBLE TO APPROACHING TRAFFIC IN ACCORDANCE WITH HIGHWAY STANDARD 720001.

LIGHT POLE IDENTIFICATION DETAIL
SCALE: NONE

LIGHTING FIXTURE SCHEDULE						
FIXT. TYPE	DESCRIPTION	MANUFACTURER & CAT. NO.	LAMPS/WATTS	VOLTS	MOUNTING	REMARKS
F1	POLE MOUNTED DECORATIVE HEAD ROADWAY LUMINAIRE, HEAVY GAUGE ALUMINUM HOUSING, FULLY GASKETED FOR WEATHER AND BUG TIGHTNESS, BAKED ON BLACK POLYESTER POWDER COAT FINISH, ANODIZED ALUMINUM TYPE III FULL CUTOFF OPTICS, TEMPERED GLASS LENS, MEDIUM BASE PORCELAIN SOCKET, HPF CWA TYPE BALLAST, UL LISTED WET LOCATIONS.	VISIONSCAPES: ODN-2T3400P6 MAP-01BKC2H5 OR APPROVED EQUAL	1-400W MH ANSI CODE NO. M59 456 TOTAL INPUT WATTS	480 (MULTI-TAP BALLAST)	MOUNTED ON TOP OF A 40'-0" POLE WITH A 10'-0" MAST ARM	SUPPLY A 100 MPH RATED POLE AT 200% OF THE RATED EPA OF THE FIXTURE AND MAST ARM PROVIDED. SPECIFIED FIXTURE EPA RATING EQUALS 0.7 SQ FT EACH
F2	POLE MOUNTED DECORATIVE HEAD WALKWAY LUMINAIRE, HEAVY GAUGE ALUMINUM HOUSING, FULLY GASKETED FOR WEATHER AND BUG TIGHTNESS, BAKED ON BLACK POLYESTER POWDER COAT FINISH, ANODIZED ALUMINUM TYPE II FULL CUTOFF OPTICS, TEMPERED GLASS LENS, MEDIUM BASE PORCELAIN SOCKET, HPF CWA TYPE BALLAST, UL LISTED WET LOCATIONS.	VISIONSCAPES: ODN-1T2150P6 PMBKC2H5/ VSWA8 OR APPROVED EQUAL	1-150W MH ANSI CODE NO. M81 193 TOTAL INPUT WATTS	480 (MULTI-TAP BALLAST)	MOUNTED ON SIDE OF ROADWAY POLE WITH DECORATIVE ARM	

Corporate License Number 184-001-084

LIGHTING DETAILS

HARRISON AVENUE BRIDGE
OVER UP & CC&P RAILROAD
F.A.P. ROUTE 0525
SECTION 02-00518-00-BR
ROCKFORD, ILLINOIS
WESTBOUND STRUCTURE NO. 101-6109
EASTBOUND STRUCTURE NO. 101-6111

© Copyright Hanson Professional Services Inc. 2006

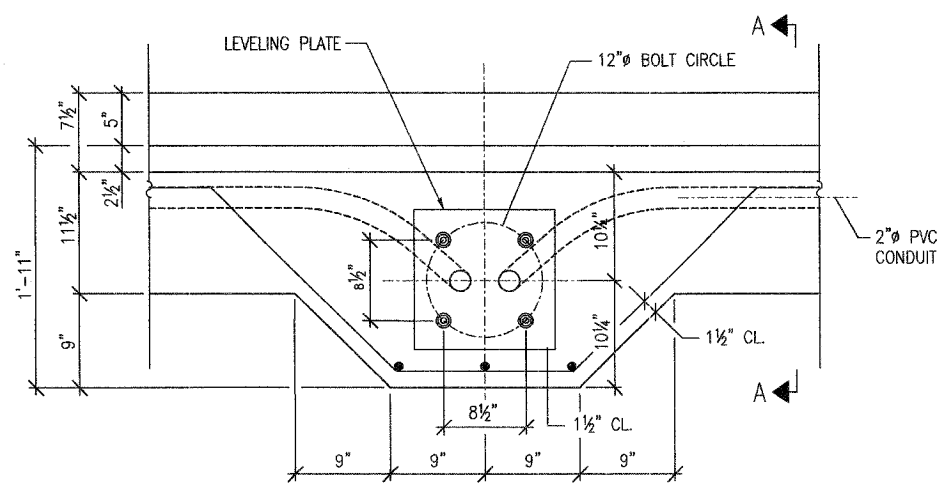
L3



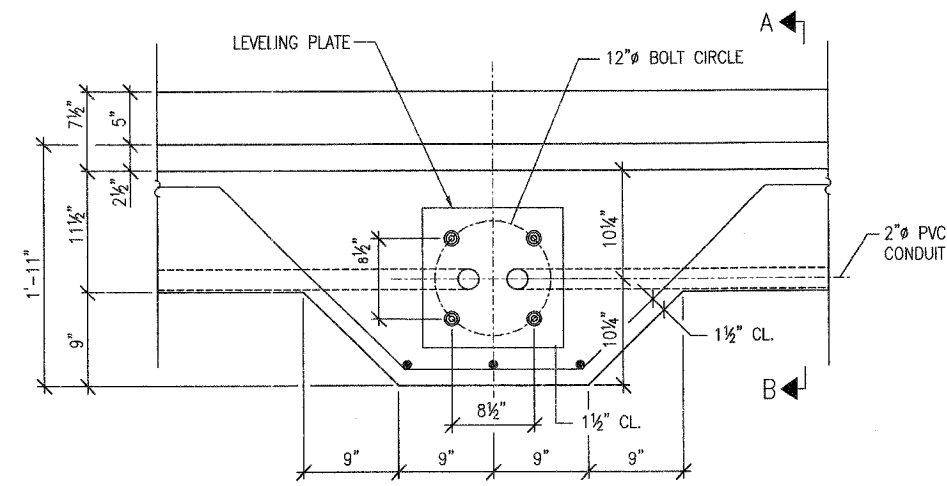
DATE: 07/18/06

7/18/06 AM
 12/14/06
 10/17/06
 10/17/06
 10/17/06
 10/17/06

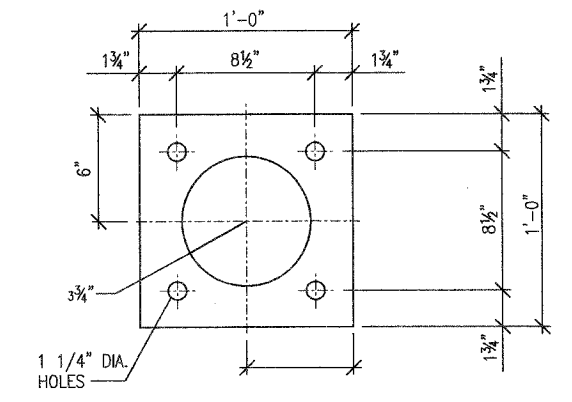
ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO.
FAP 0525		WINNEBAGO	157	30
PROJECT NO. 02-00518-00-BR				5 SHEETS



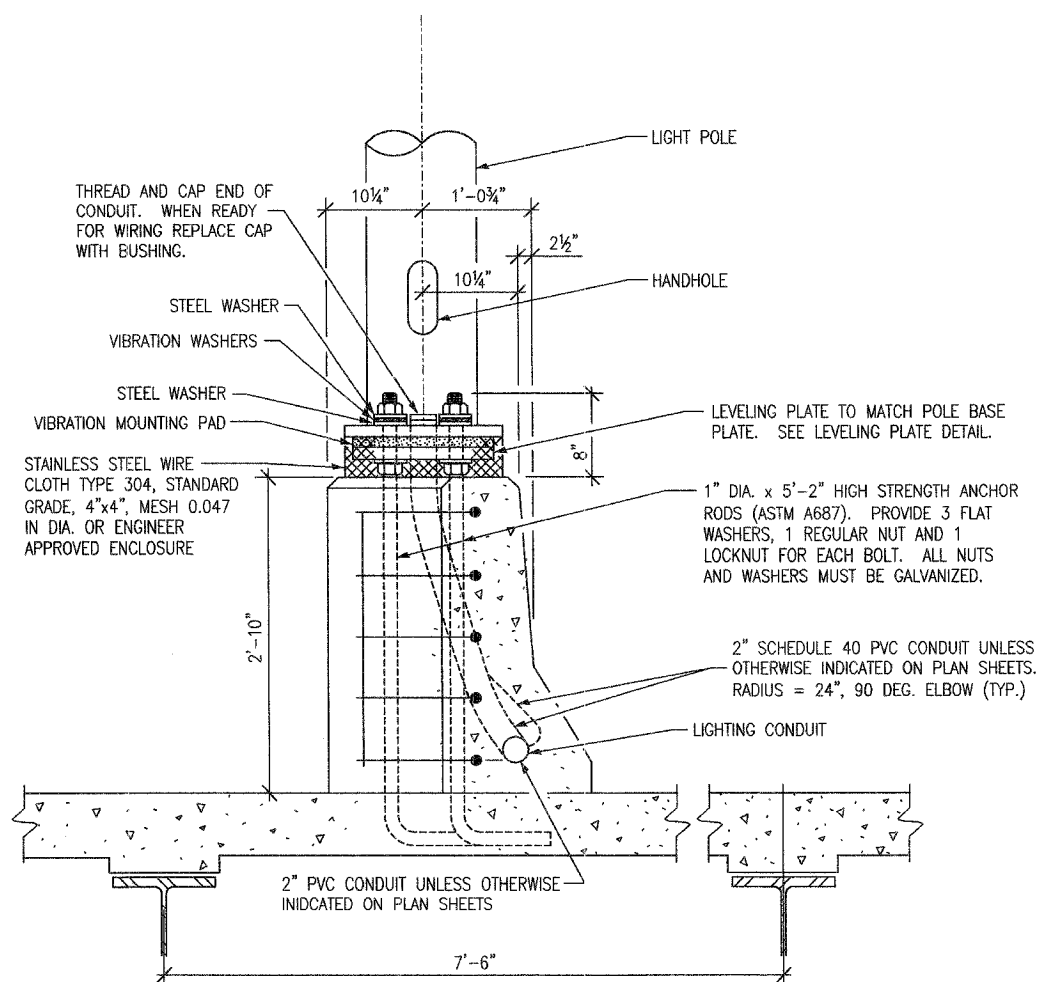
PLAN



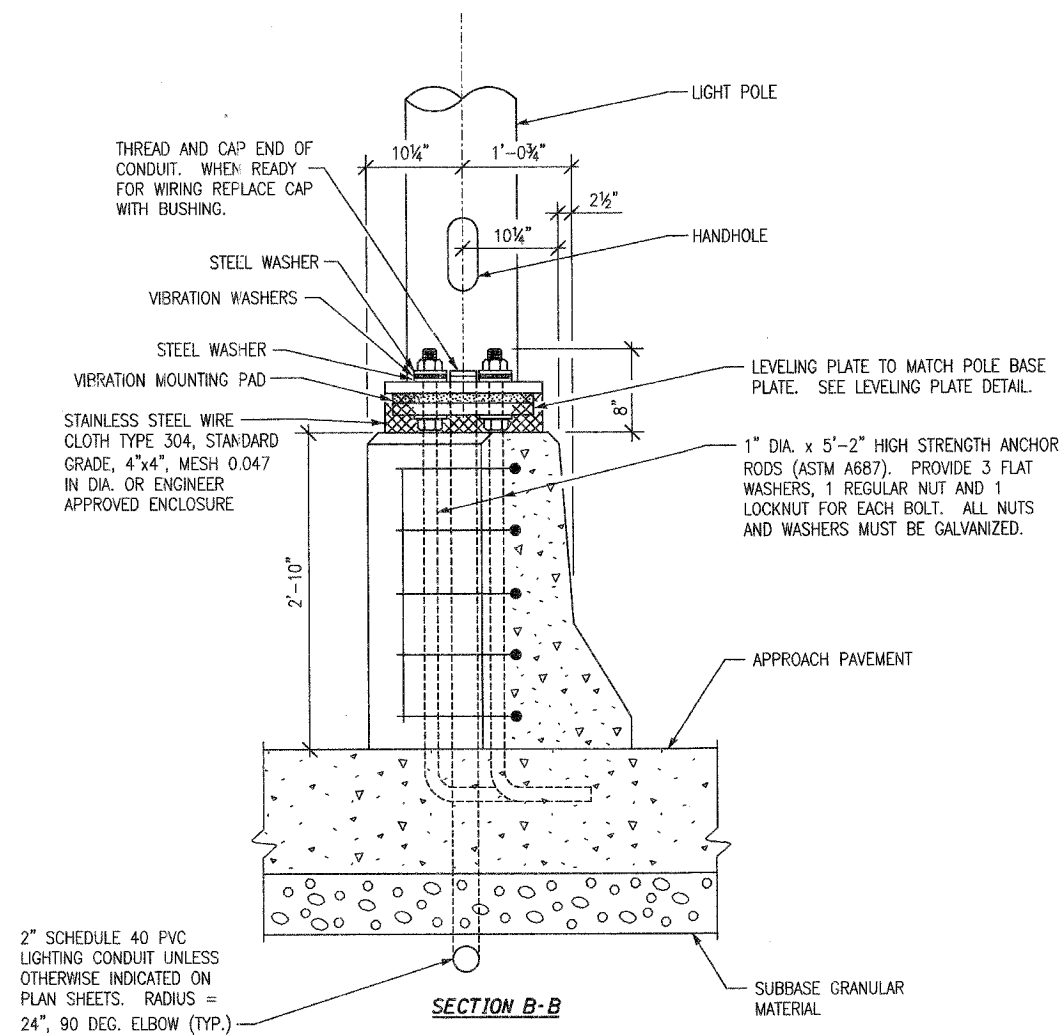
PLAN



LEVELING PLATE DETAIL
SCALE: NONE



SECTION A-A
LIGHT POLE ON PARAPET (BRIDGE)
SCALE: NONE



SECTION B-B
LIGHT POLE ON PARAPET (APPROACH PAVEMENT)
SCALE: NONE

GENERAL NOTES:

1. LEVEL LIGHT POLE PLATES USING THE FLANGE NUTS, PRIOR TO POURING THE PARAPET WALL. THE BOTTOM OF THE PLATE SHALL BE AT THE SAME ELEVATION AS THE FINISHED CONCRETE PARAPET.
2. THE COST OF ANCHOR BOLTS AND FOUNDATION ON BRIDGE IS INCLUDED WITH BRIDGE SUPERSTRUCTURE.
3. 2" FLEXIBLE CONDUIT SHALL BE 24" (MIN.) IN LENGTH. IT SHALL HAVE SUFFICIENT SLACK TO ALLOW DEFLECTION AND EXPANSION.
4. ALL JUNCTION BOXES AND PULL BOXES ATTACHED TO THE STRUCTURE SHALL BE STAINLESS STEEL NEMA 4X (PER ARTICLE 1088.04), SIZE AS SPECIFIED. THE DOOR SHALL HAVE A STAINLESS STEEL CONTINUOUS HINGE PIN AND CLAMP ASSEMBLY.
5. THE CONTRACTOR SHALL NOT DRILL ANY HOLES IN THE BEAM, DECK OR SUPERSTRUCTURE OF THE BRIDGE OR WELD TO THE STRUCTURE UNLESS OTHERWISE SPECIFIED.
6. CONDUIT SHALL EXIT PARAPET IN LONGITUDINAL STRAIGHT LINE.
7. ALL JUNCTION BOXES SHALL HAVE A 1" WIRE MESH DRAIN IN THE BOTTOM.
8. THE COST OF ANCHOR BOLTS AND FOUNDATION ON APPROACH PAVEMENT IS INCLUDED WITH BRIDGE SUPERSTRUCTURE.

Corporate License Number 184-001-084

BRIDGE PARAPET/LIGHTING DETAILS

HARRISON AVENUE BRIDGE
OVER UP & CC&P RAILROAD
F.A.P. ROUTE 0525
SECTION 02-00518-00-BR
ROCKFORD, ILLINOIS
WESTBOUND STRUCTURE NO. 101-6109
EASTBOUND STRUCTURE NO. 101-6111

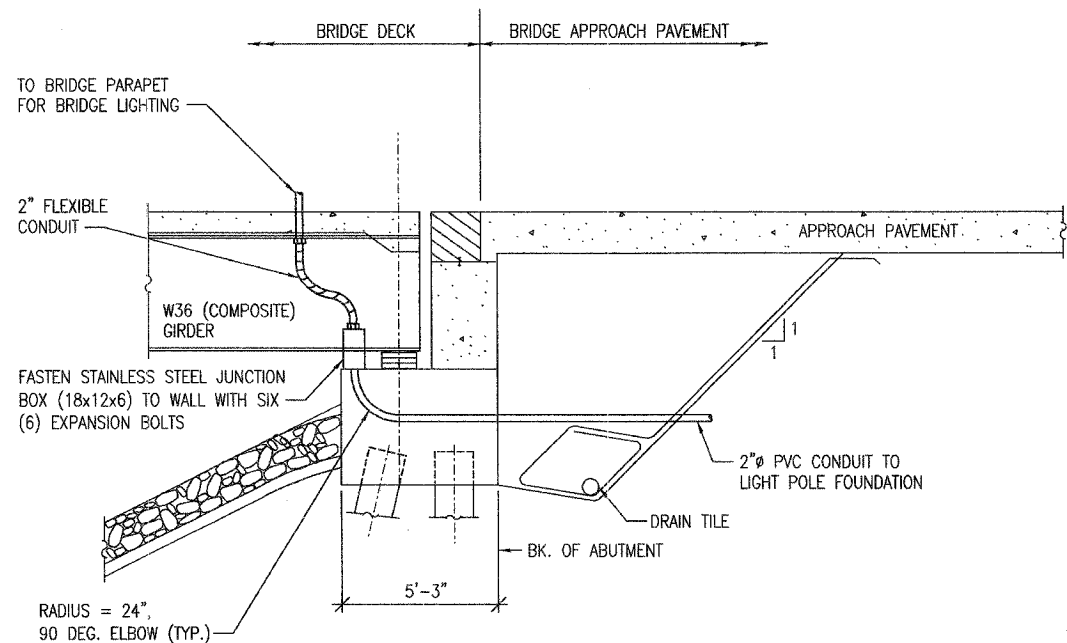
© Copyright Hanson Professional Services Inc. 2005

L4		JOB NO.	03R1751
		DATE	07/18/06

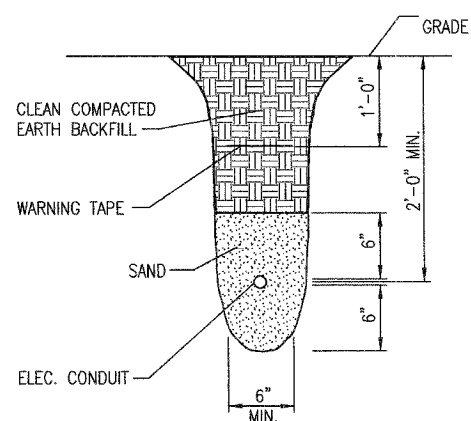
7/14/06 AM
 12/14/05 07:17 AM
 A03/08/05/07/05/Struct/Sheet/LightingR.d 12/12/05 E-502.dgn

LAYOUT	PJT	07/14/06
GRAB	ANC	07/14/06
REVIEWED	PJT	07/14/06

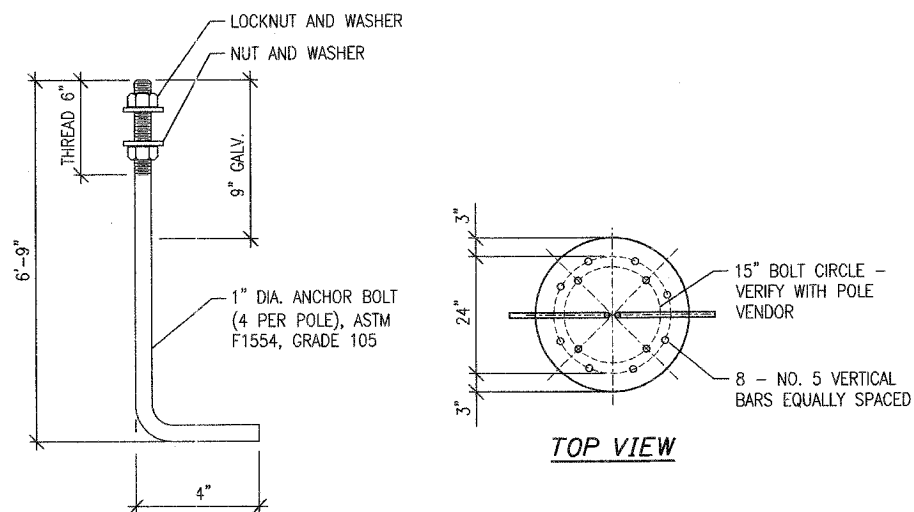
ROUTE NO.	SECTION	COUNTY	SHEET	SHEET	SHEET NO.
FAP 0525		WINNEBAGO	157	31	5 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT	
* 02-00518-00-BR					



(HORIZ. DIM. @ RT. L'S)
SECTION THRU ABUTMENT
SCALE: NONE

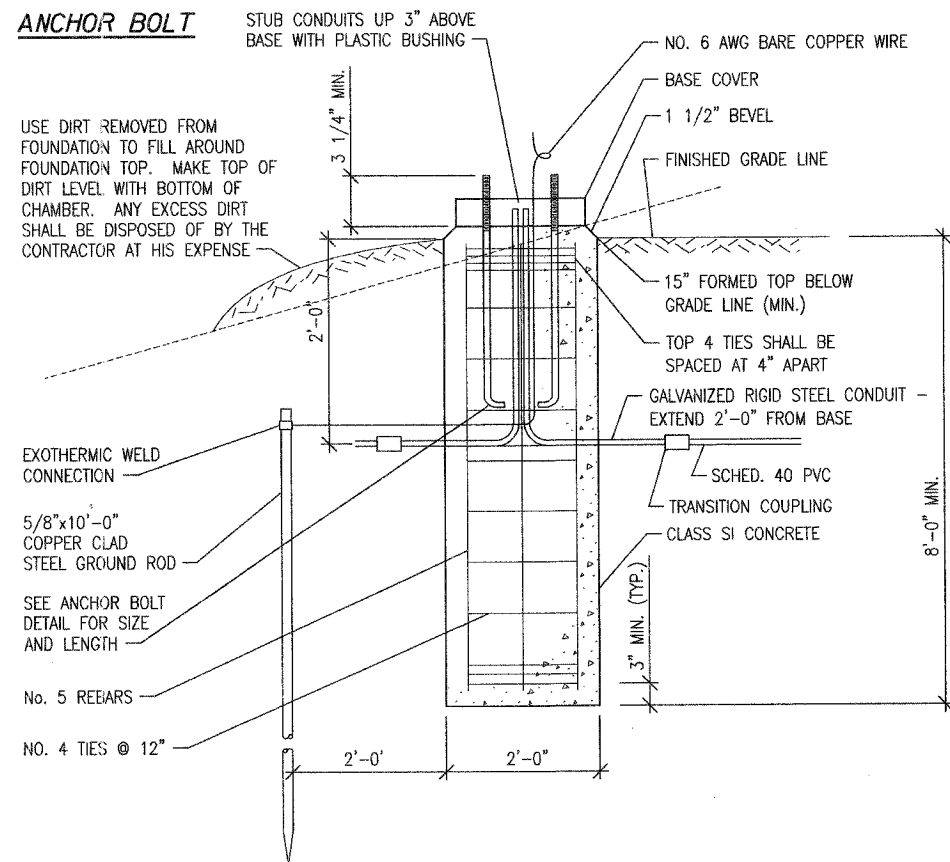


(IN NONPAVED AREAS)
TRENCH DETAIL
SCALE: NONE



ANCHOR BOLT

USE DIRT REMOVED FROM FOUNDATION TO FILL AROUND FOUNDATION TOP. MAKE TOP OF DIRT LEVEL WITH BOTTOM OF CHAMBER. ANY EXCESS DIRT SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS EXPENSE



POLE FOUNDATION DETAIL
SCALE: NONE

7/7/05 AM
 12/14/06 09:17 AM
 1/03/06 02:37:53 StructSheetLighting.dwg 12-12-06 E-503.dwg

LAYOUT	PJT	07/14/06
DRAWN	ANC	07/14/06
REVIEWED	PJT	07/14/06

Corporate License Number 184-001-084

ROADWAY/LIGHTING DETAILS

**HARRISON AVENUE BRIDGE
OVER UP & CC&P RAILROAD
F.A.P. ROUTE 0525
SECTION 02-00518-00-BR
ROCKFORD, ILLINOIS
WESTBOUND STRUCTURE NO. 101-6109
EASTBOUND STRUCTURE NO. 101-6111**

© Copyright Hanson Professional Services Inc. 2005

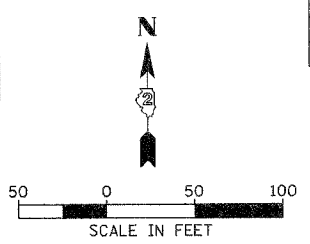
L5



JOB NO.
03R1751
DATE
07/18/06

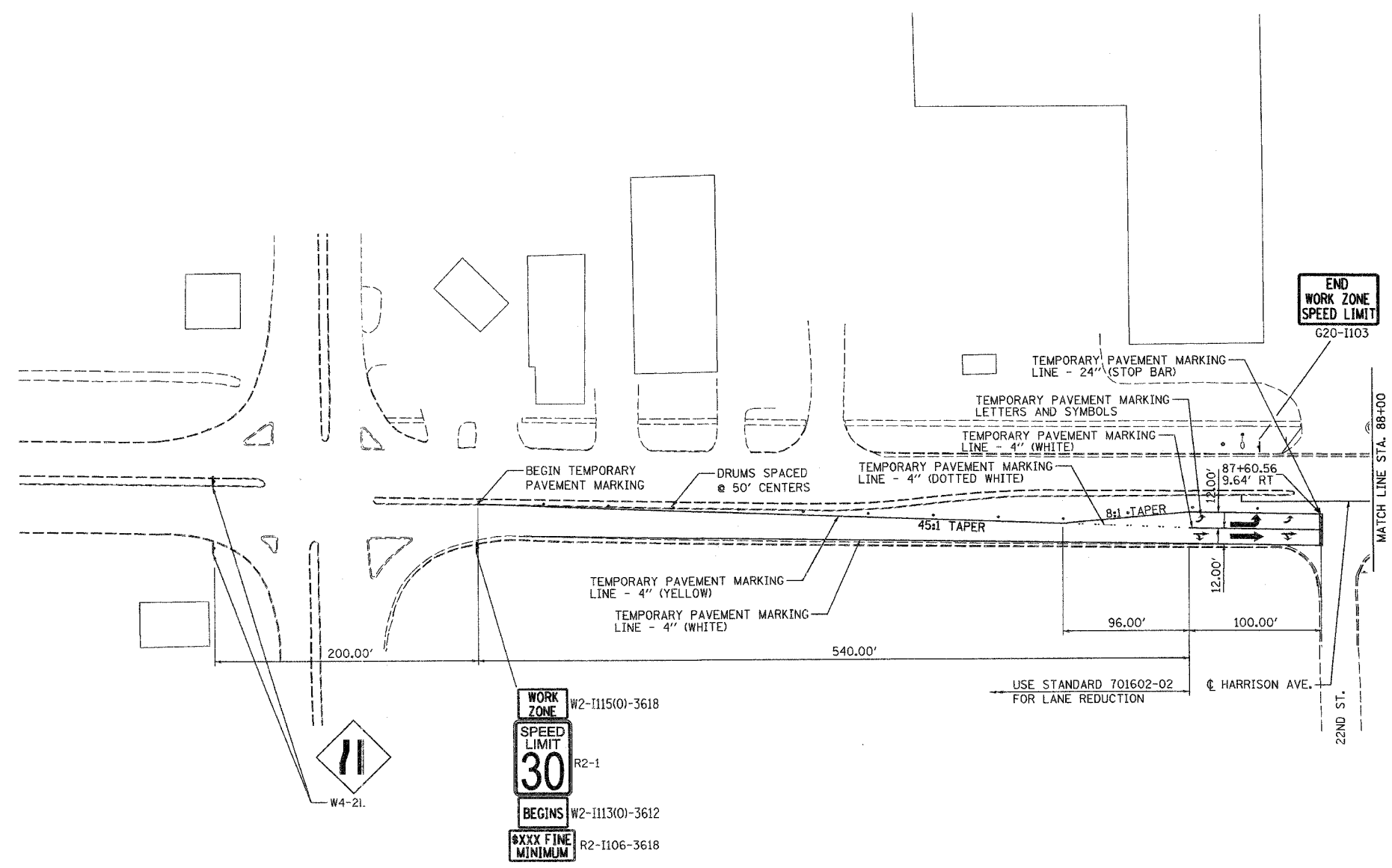
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	32
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

SEE MAINTENANCE OF TRAFFIC ENTRANCE STAGE CONSTRUCTION SHEET FOR STAGING OF ENTRANCES.



STAGE 1 CONSTRUCTION
 HARRISON AVENUE - REMOVE RAISED MEDIAN AND REPLACE WITH TEMPORARY PAVEMENT TO THE LIMITS SHOWN IN THE MAINTENANCE OF TRAFFIC SHEETS.

STAGE 1 TRAFFIC
 HARRISON AVENUE - PROVIDE ONE LANE OF TRAFFIC IN BOTH THE E.B. AND W.B. DIRECTIONS UTILIZING THE EXISTING PAVEMENT.



HANSON
 Hanson Professional Services Inc.

LAYOUT RSJ 12/28/05 10m
 DRAWN RSJ 12/28/05 12:44:20 06:09 AM
 REVIEWED RJC 11/21/06 11:03 10:30 AM 11/21/06 11:03 10:30 AM 11/21/06 11:03 10:30 AM 11/21/06 11:03 10:30 AM 11/21/06 11:03 10:30 AM

LEGEND

- WORK ZONE
- TRAFFIC MOVEMENT
- DRUM
- FLEXIBLE DELINEATOR

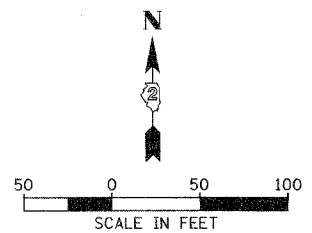
- WORK ZONE W2-1115(0)-3618
- SPEED LIMIT 30 R2-1
- BEGINS W2-1113(0)-3612
- MINIMUM R2-1106-3618

NOTE:
 W4-2L SIGNS ARE TO BE INCLUDED IN THE TRAFFIC CONTROL COMPLETE PAY ITEM

REVISIONS	
NAME	DATE

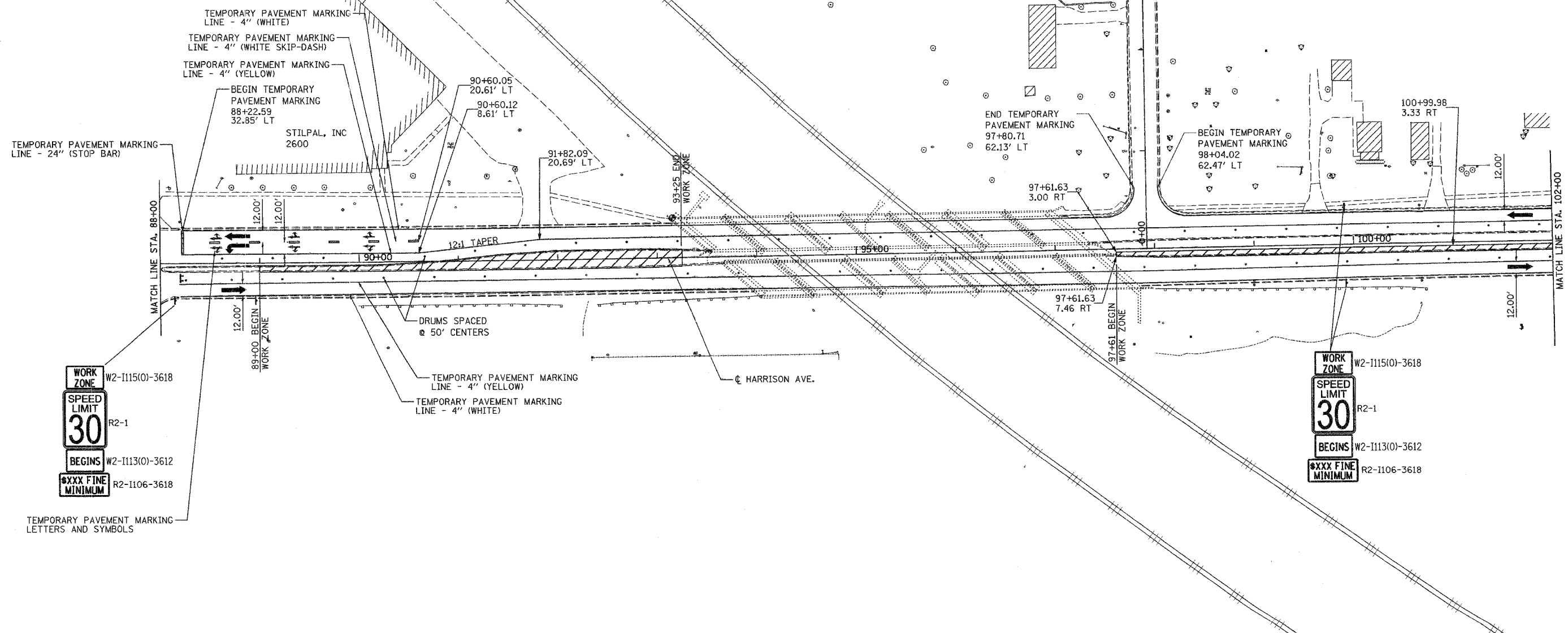
ILLINOIS DEPARTMENT OF TRANSPORTATION
 SECTION 02-00518-00-BR
 WINNEBAGO COUNTY
 HARRISON AVENUE OVER UPRR AND CC&PRR
MAINTENANCE OF TRAFFIC STAGE 1
 SCALE: VERT. _____ HORIZ. _____
 DATE 12/14/06
 DRAWN BY RSJ
 CHECKED BY RJC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	33
STA. 525+00		TO STA. 525+00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

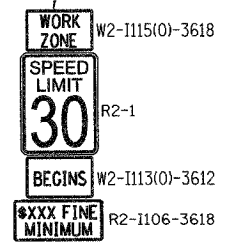
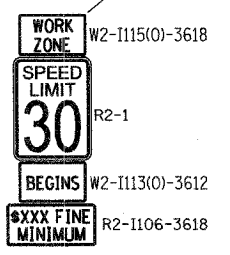


STAGE 1 CONSTRUCTION
 HARRISON AVENUE - REMOVE RAISED MEDIAN AND REPLACE WITH TEMPORARY PAVEMENT TO THE LIMITS SHOWN IN THE MAINTENANCE OF TRAFFIC SHEETS.

STAGE 1 TRAFFIC
 HARRISON AVENUE - PROVIDE ONE LANE OF TRAFFIC IN BOTH THE E.B. AND W.B. DIRECTIONS UTILIZING THE EXISTING PAVEMENT.



HANSON
 Hanson Professional Services Inc.



LEGEND

	WORK ZONE
	TRAFFIC MOVEMENT
	DRUM
	FLEXIBLE DELINEATOR

REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SECTION 02-00518-00-BR
 WINNEBAGO COUNTY
 HARRISON AVENUE OVER UPRR AND CC&PRR
**MAINTENANCE OF TRAFFIC
 STAGE 1**
 VERT. SCALE: HORIZ. DATE 12/14/06
 DRAWN BY RSJ
 CHECKED BY RXC

LAYOUT: RSJ 12/28/05 /dm
 DRAWN: RSJ 12/28/05 12:44:2006 12:05 AM
 REVIEWED: RXC 11/21/06 1:03:10pm 03/17/07 5:01:13pm 10/15/07 10:50:13pm 10/15/07 10:50:13pm

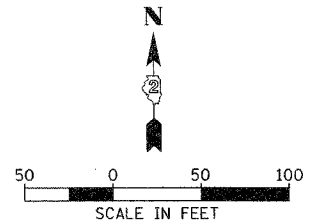
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	34
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STAGE 1 CONSTRUCTION

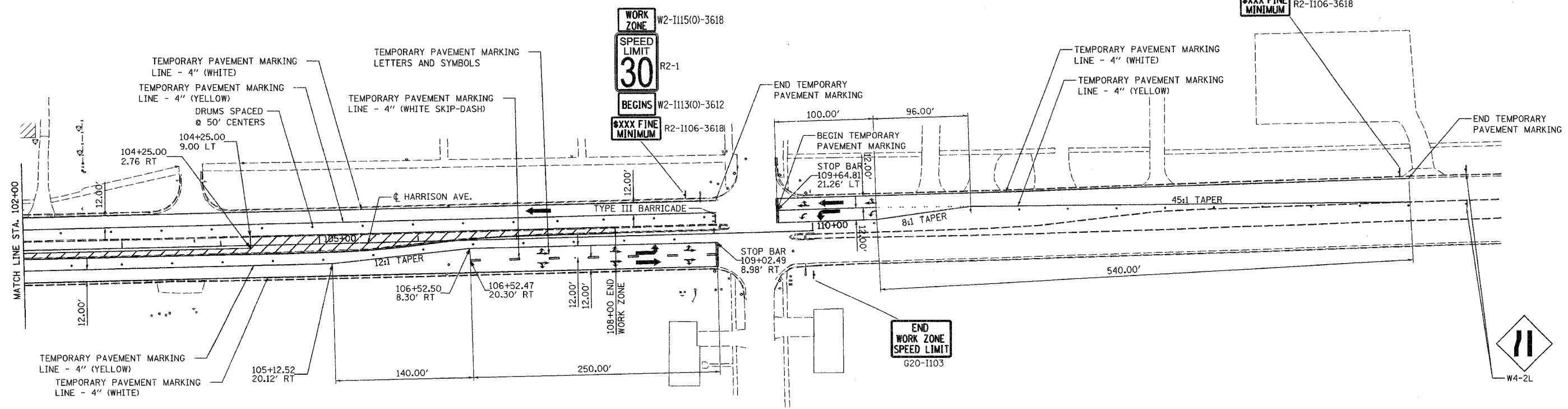
HARRISON AVENUE - REMOVE RAISED MEDIAN AND REPLACE WITH TEMPORARY PAVEMENT TO THE LIMITS SHOWN IN THE MAINTENANCE OF TRAFFIC SHEETS.

STAGE 1 TRAFFIC

HARRISON AVENUE - PROVIDE ONE LANE OF TRAFFIC IN BOTH THE E.B. AND W.B. DIRECTIONS UTILIZING THE EXISTING PAVEMENT.



HANSON
Hanson Professional Services Inc.



SEE MEDIAN CONSTRUCTION DETAIL FOR LIMITS OF MEDIAN REMOVAL.

LEGEND

	WORK ZONE
	TRAFFIC MOVEMENT
	DRUM
	FLEXIBLE DELINEATOR

NOTE:
W4-2L SIGNS ARE TO BE INCLUDED IN THE TRAFFIC CONTROL COMPLETE PAY ITEM

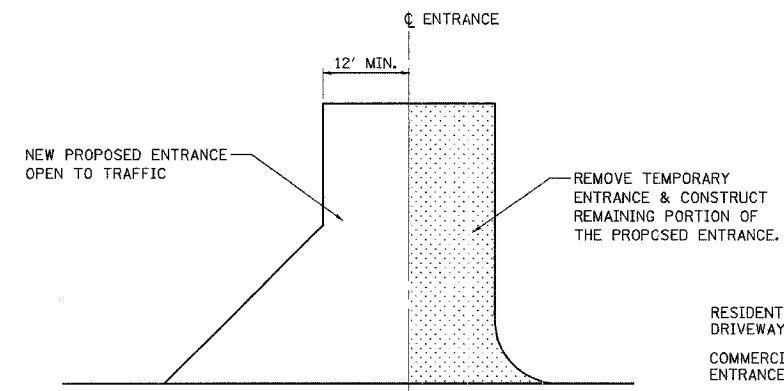
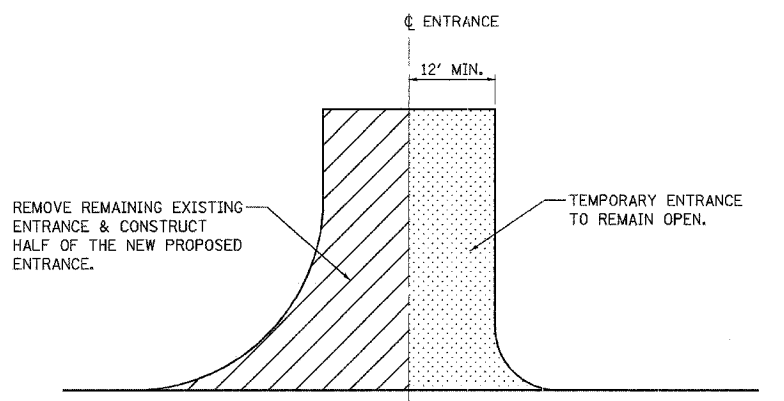
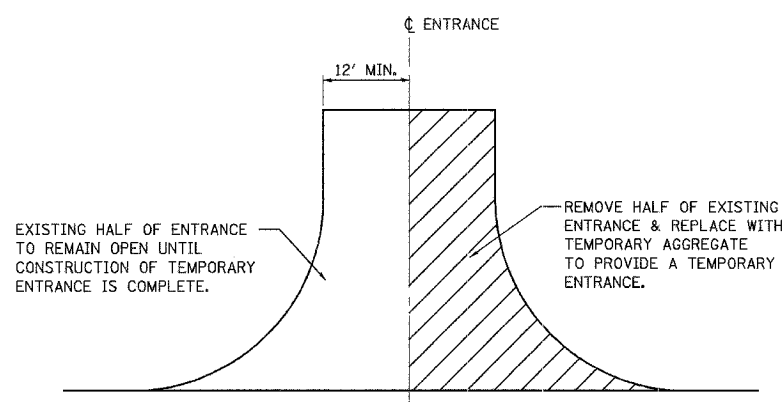
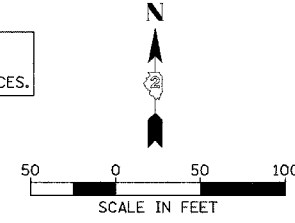
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SECTION 02-00518-00-BR
WINNEBAGO COUNTY
HARRISON AVENUE OVER UPRR AND CC&PRR
**MAINTENANCE OF TRAFFIC
STAGE 1**
SCALE: VERT. _____
HORIZ. _____
DATE 12/14/06
DRAWN BY RSJ
CHECKED BY RXC

LAYOUT: 12/28/05 /dm
DRAWN: 12/28/05 /2V4
REVIEWED: 12/28/05 /RJC
12/28/05 /2V4 2:00 PM
12/28/05 /RJC 1:03 PM
12/28/05 /RJC 1:03 PM

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	35
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	85399		

SEE MAINTENANCE OF TRAFFIC ENTRANCE STAGE CONSTRUCTION SHEET FOR STAGING OF ENTRANCES.



MAINTENANCE OF TRAFFIC ENTRANCE STAGE CONSTRUCTION

STAGE 2 CONSTRUCTION

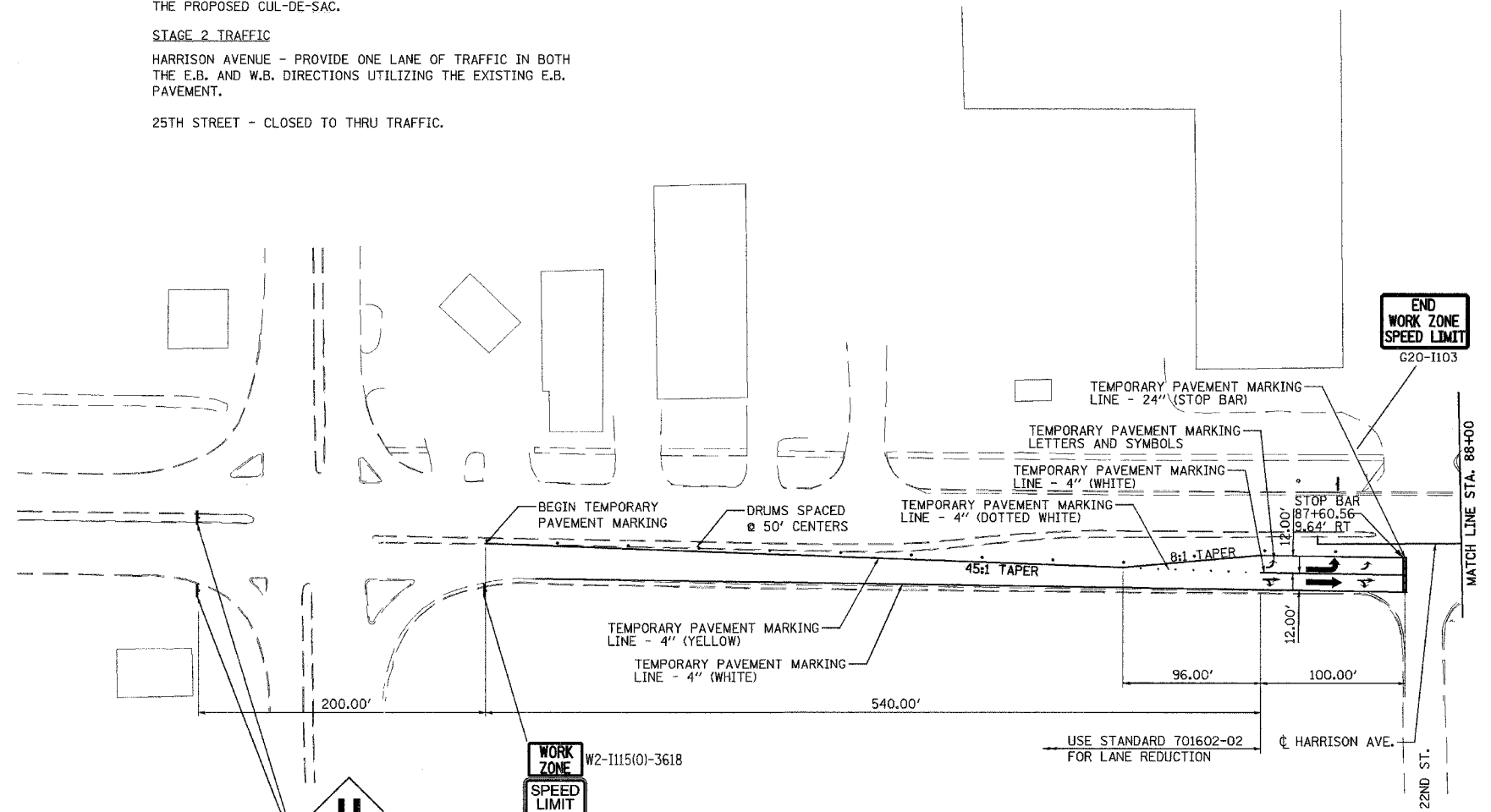
HARRISON AVENUE - CONSTRUCT PROPOSED W.B. PAVEMENT, SIDEWALK AND ENTRANCES TO THE LIMITS SHOWN IN THE MAINTENANCE OF TRAFFIC SHEETS.

25TH STREET - REMOVE EXISTING PAVEMENT TO CONSTRUCT THE PROPOSED CUL-DE-SAC.

STAGE 2 TRAFFIC

HARRISON AVENUE - PROVIDE ONE LANE OF TRAFFIC IN BOTH THE E.B. AND W.B. DIRECTIONS UTILIZING THE EXISTING E.B. PAVEMENT.

25TH STREET - CLOSED TO THRU TRAFFIC.



ENTRANCE STAGE CONSTRUCTION NOTES

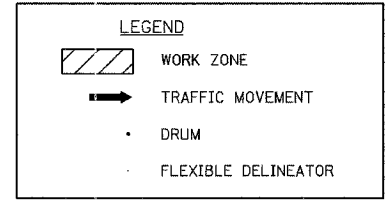
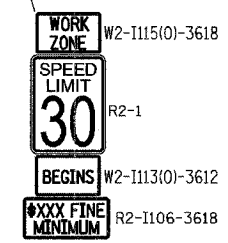
THE CONTRACTOR SHALL BE ALLOWED TO CONSTRUCT THE PROPOSED PAVEMENT FOR DRIVEWAYS INSTEAD OF USING TEMPORARY AGGREGATE. THIS DETAIL SHALL BE USED WHEN THE PROPOSED PAVEMENT CANNOT BE CONSTRUCTED.

THE CONTRACTOR SHALL BE PERMITTED TO CLOSE AND CONSTRUCT THE ENTIRE ENTRANCE, ONLY IF AN AGREEMENT HAS BEEN REACHED PRIOR TO CONSTRUCTION BETWEEN THE CONTRACTOR AND PROPERTY OWNER AND WITH THE APPROVAL OF THE ENGINEER.

RESIDENTIAL DRIVEWAY -
COMMERCIAL ENTRANCES -

THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL RESIDENTIAL ENTRANCES. ALL WORK DONE BETWEEN NORMAL BUSINESS HOURS SHALL BE REQUIRED TO STAGE CONSTRUCT ALL ENTRANCES, SO THAT EACH BUSINESS WILL HAVE ACCESS. THE CONTRACTOR MAY REMOVE THE ENTIRE ENTRANCE AFTER NORMAL BUSINESS HOURS AS LONG AS ACCESS IS PROVIDED PRIOR TO THE OPENING OF THE NORMAL BUSINESS HOUR THE NEXT DAY.

AGGREGATE FOR TEMPORARY ACCESS WILL BE USED TO WIDEN ENTRANCE TO 12'.



NOTE:
W4-2L SIGNS ARE TO BE INCLUDED IN THE TRAFFIC CONTROL COMPLETE PAY ITEM

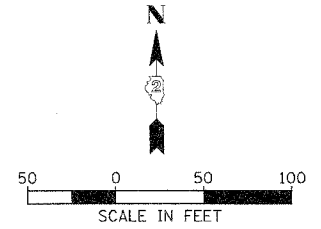
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SECTION 02-00518-00-BR
WINNEBAGO COUNTY
HARRISON AVENUE OVER UPRR AND CC&PRR
MAINTENANCE OF TRAFFIC STAGE 2
SCALE: VERT. HORIZ. DATE 12/14/06
DRAWN BY RSJ
CHECKED BY RXC

HANSON
Hanson Professional Services Inc.

LAYOUT: RSJ 12/28/05
DRAWN: RSJ 12/28/05
REVIEWED: RXC 11/21/06
DATE: 12/28/05
PROJECT: 02-00518-00-BR
SHEET: 35 OF 157

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	36
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



STAGE 2 CONSTRUCTION

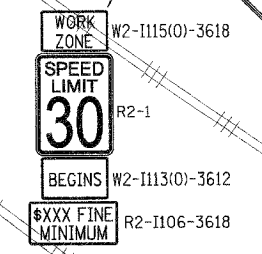
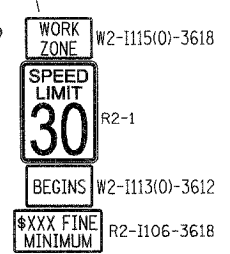
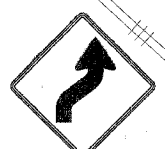
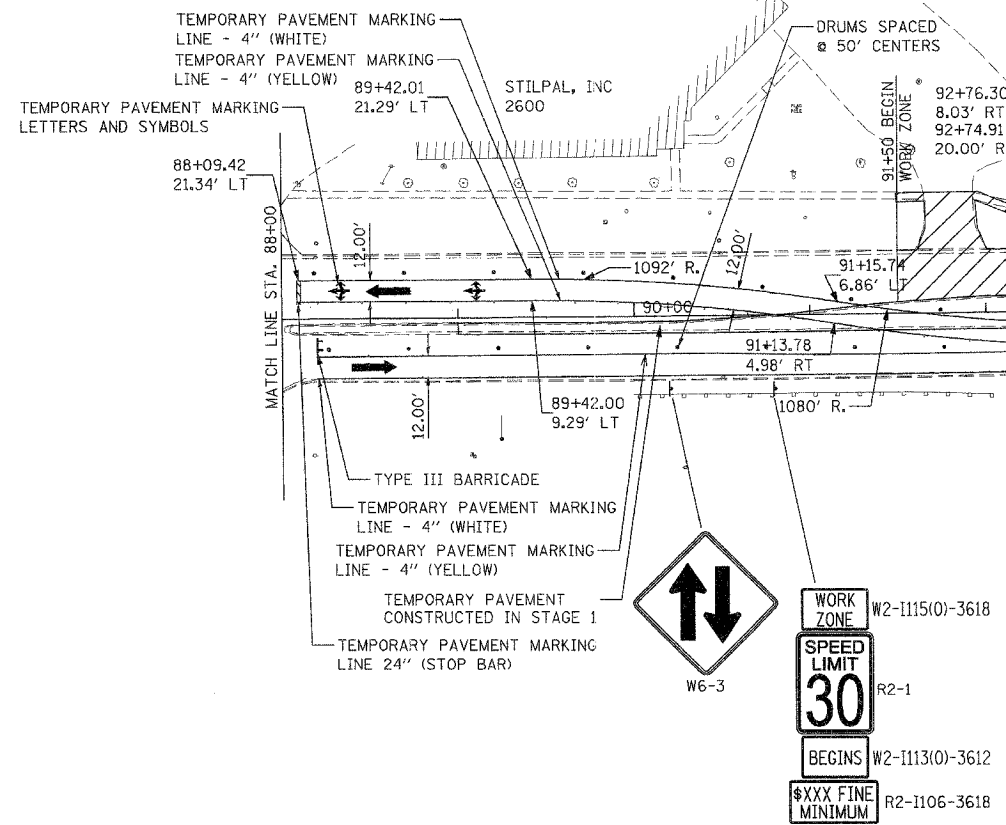
HARRISON AVENUE - CONSTRUCT PROPOSED W.B. PAVEMENT, SIDEWALK AND ENTRANCES TO THE LIMITS SHOWN IN THE MAINTENANCE OF TRAFFIC SHEETS.

25TH STREET - REMOVE EXISTING PAVEMENT TO CONSTRUCT THE PROPOSED CUL-DE-SAC.

STAGE 2 TRAFFIC

HARRISON AVENUE - PROVIDE ONE LANE OF TRAFFIC IN BOTH THE E.B. AND W.B. DIRECTIONS UTILIZING THE EXISTING E.B. PAVEMENT.

25TH STREET - CLOSED TO THRU TRAFFIC.



SEE MAINTENANCE OF TRAFFIC ENTRANCE STAGE CONSTRUCTION SHEET FOR STAGING OF ENTRANCES.

LEGEND

	WORK ZONE
	TRAFFIC MOVEMENT
	DRUM
	FLEXIBLE DELINEATOR

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SECTION 02-00518-00-BR
 WINNEBAGO COUNTY
 HARRISON AVENUE OVER UPRR AND CC&PRR
MAINTENANCE OF TRAFFIC STAGE 2
 SCALE: VERT. DATE 12/14/06
 DRAWN BY RSJ
 CHECKED BY RXC

LAYOUT: RSJ 12/28/05
 DRAWN: RSJ 12/28/05
 REVIEWED: RJC 11/21/06

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	37
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STAGE 2 CONSTRUCTION

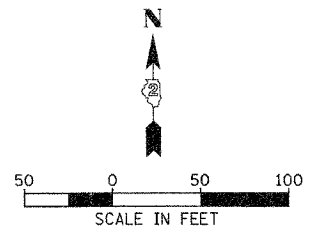
HARRISON AVENUE - CONSTRUCT PROPOSED W.B. PAVEMENT, SIDEWALK AND ENTRANCES TO THE LIMITS SHOWN IN THE MAINTENANCE OF TRAFFIC SHEETS.

25TH STREET - REMOVE EXISTING PAVEMENT TO CONSTRUCT THE PROPOSED CUL-DE-SAC.

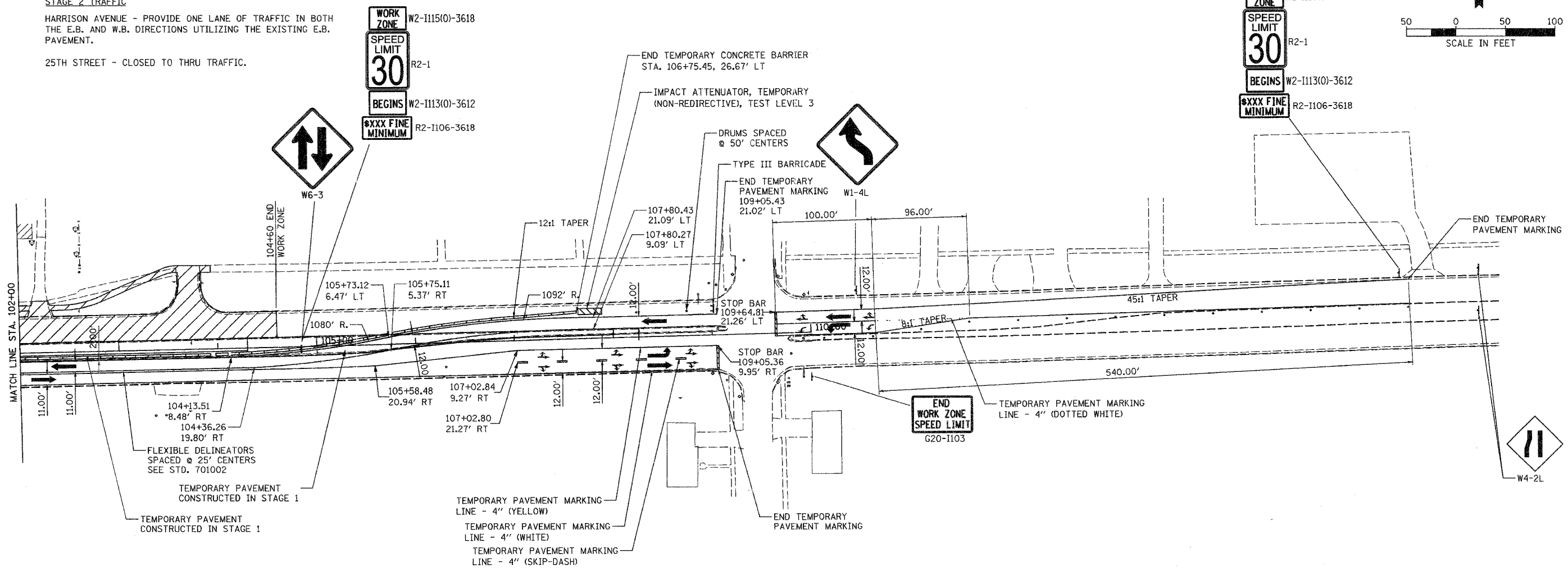
STAGE 2 TRAFFIC

HARRISON AVENUE - PROVIDE ONE LANE OF TRAFFIC IN BOTH THE E.B. AND W.B. DIRECTIONS UTILIZING THE EXISTING E.B. PAVEMENT.

25TH STREET - CLOSED TO THRU TRAFFIC.



HANSON
Hanson Professional Services Inc.



LEGEND

	WORK ZONE
	TRAFFIC MOVEMENT
	DRUM
	FLEXIBLE DELINEATOR

REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SECTION 02-00518-00-BR
WINNEBAGO COUNTY
HARRISON AVENUE OVER UPRR AND CC&PRR
**MAINTENANCE OF TRAFFIC
STAGE 2**
SCALE: VERT. _____
HORIZ. _____
DATE 12/14/06
DRAWN BY RSJ
CHECKED BY RXC

LAYOUT: RSJ 12/28/05 1:04m
DRAWN: RSJ 12/28/05 12:54a
REVIEWED: RXC 11/21/06 11:03a
C:\projects\02-00518-00-BR\02-00518-00-BR.dwg
12/14/06 10:39 AM

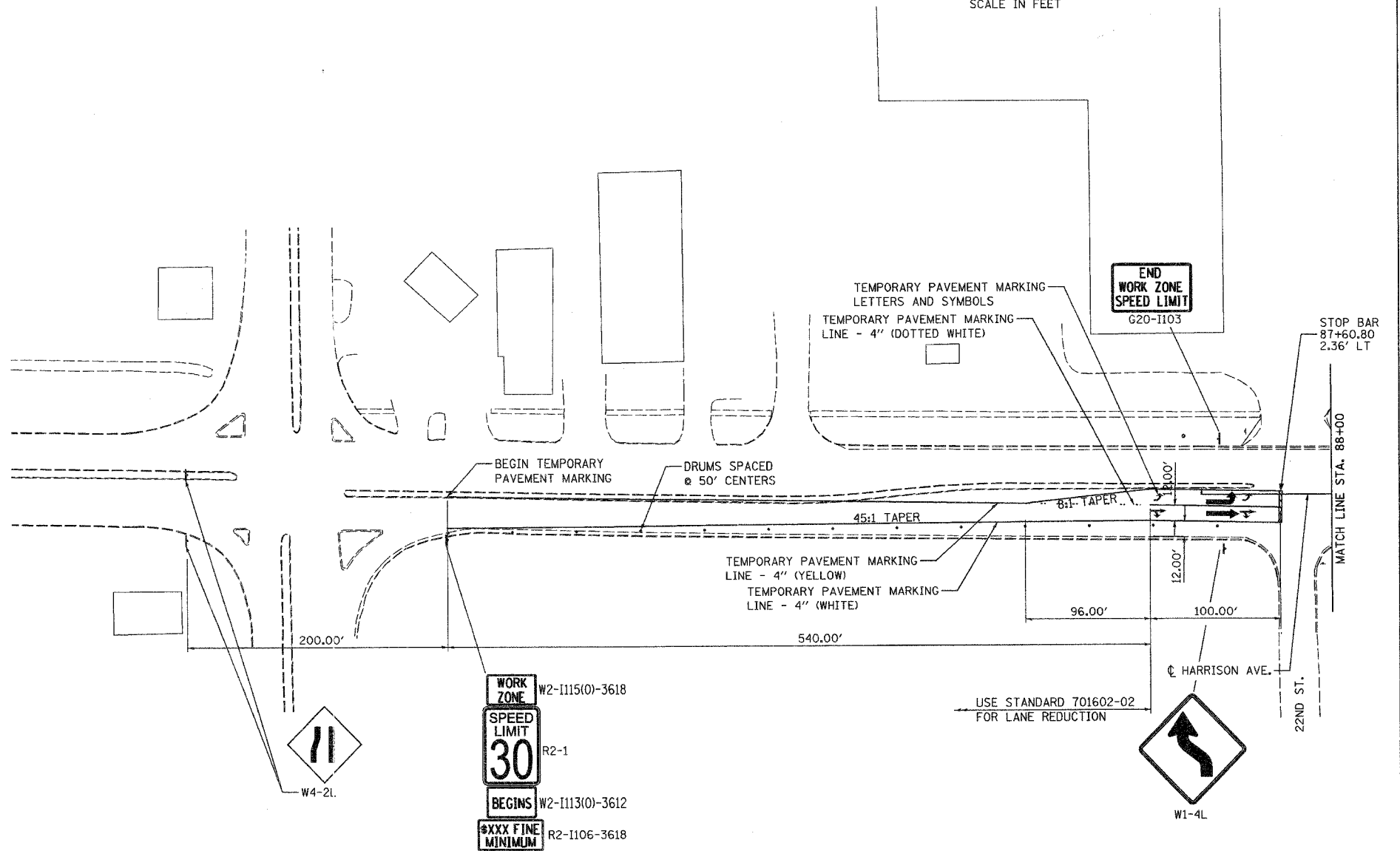
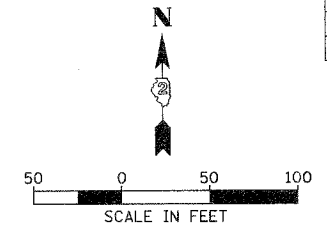
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	38
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STAGE 3 CONSTRUCTION

HARRISON AVENUE - CONSTRUCT PROPOSED E.B. PAVEMENT AND SIDEWALK TO THE LIMITS SHOWN IN THE MAINTENANCE OF TRAFFIC SHEETS.

STAGE 3 TRAFFIC

HARRISON AVENUE - PROVIDE ONE LANE OF TRAFFIC IN BOTH THE E.B. AND W.B. DIRECTIONS UTILIZING THE PROPOSED W.B. PAVEMENT.



HANSON
Hanson Professional Services Inc.

LAYOUT: RSJ 12/28/05 10m
 DRAWN: RSJ 12/28/05 12:54:20:06:09:41 AM
 REVIEWED: RJC 11/21/06 11:03:10:37:50:31:11:shen:154a:mlp:154m:plg:m

LEGEND

	WORK ZONE
	TRAFFIC MOVEMENT
	DRUM
	FLEXIBLE DELINEATOR

NOTE:
 W4-2L SIGNS ARE TO BE INCLUDED IN THE TRAFFIC CONTROL COMPLETE PAY ITEM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SECTION 02-00518-00-BR
 WINNEBAGO COUNTY
 HARRISON AVENUE OVER UPRR AND CC&PRR
**MAINTENANCE OF TRAFFIC
 STAGE 3**
 SCALE: VERT. _____
 HORIZ. _____
 DATE 12/14/06
 DRAWN BY RSJ
 CHECKED BY RJC

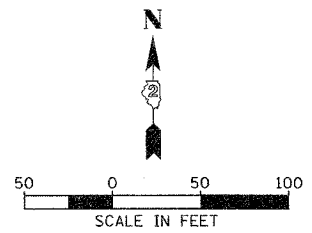
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	40
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STAGE 3 CONSTRUCTION

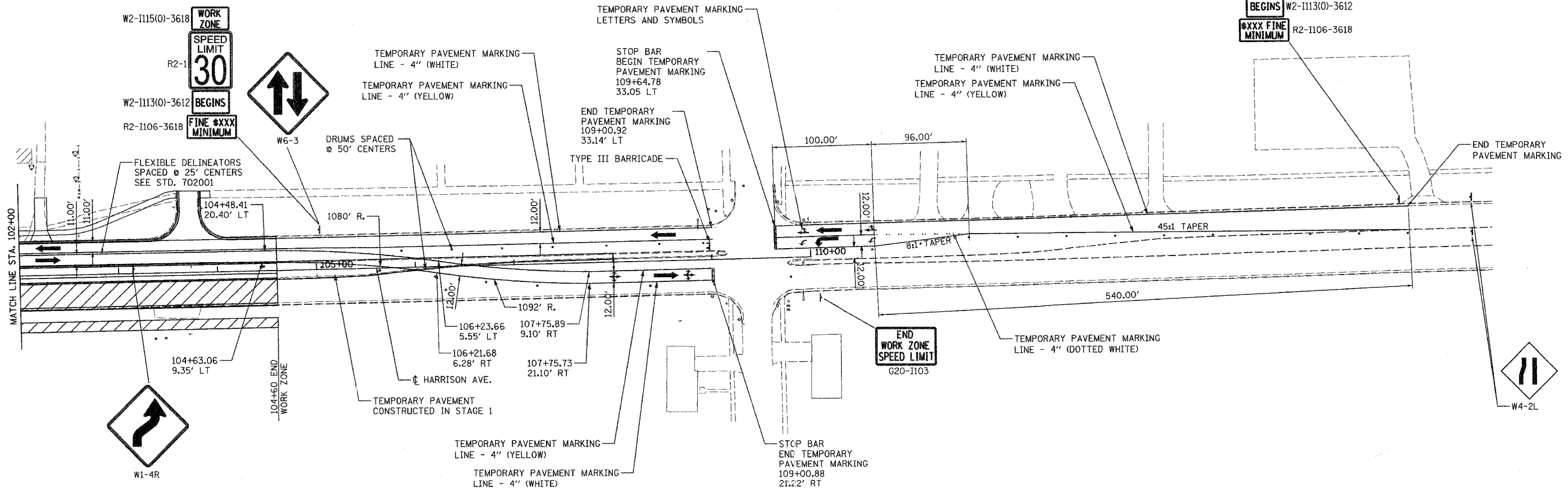
HARRISON AVENUE - CONSTRUCT PROPOSED E.B. PAVEMENT AND SIDEWALK TO THE LIMITS SHOWN IN THE MAINTENANCE OF TRAFFIC SHEETS.

STAGE 3 TRAFFIC

HARRISON AVENUE - PROVIDE ONE LANE OF TRAFFIC IN BOTH THE E.B. AND W.B. DIRECTIONS UTILIZING THE PROPOSED W.B. PAVEMENT.



HANSON
Hanson Professional Services Inc.



LEGEND

	WORK ZONE
	TRAFFIC MOVEMENT
	DRUM
	FLEXIBLE DELINEATOR

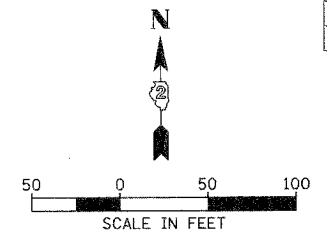
REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SECTION 02-00518-00-BR
WINNEBAGO COUNTY
HARRISON AVENUE OVER UPRR AND CC&PRR
**MAINTENANCE OF TRAFFIC
STAGE 3**
SCALE: VERT. DRAWN BY RSJ
 HORIZ. CHECKED BY RXC
DATE 12/14/06

LAYOUT: RSJ 12/28/05 Jdm
DRAWN: RSJ 12/28/05 12:44:00 03:49 AM
REVIEWED: RJC 11/21/06 10:03:00 03:17:50 WINNEBAGO-155.mxd - 45MPH.dgn

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	41
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

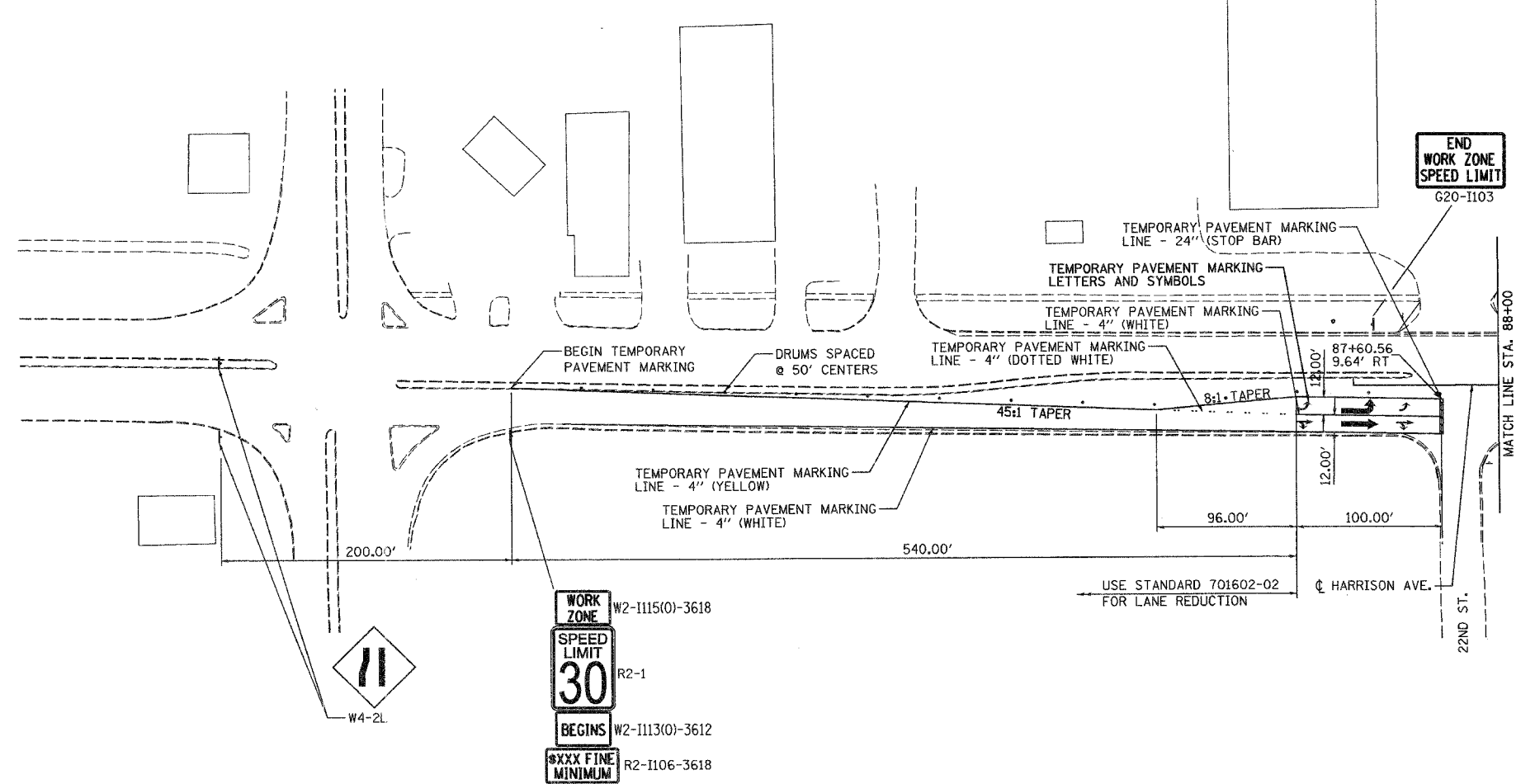


STAGE 4 CONSTRUCTION

HARRISON AVENUE - REMOVE TEMPORARY PAVEMENT CONSTRUCTED IN STAGE 1 AND CONSTRUCT RAISED MEDIAN TO THE LIMITS SHOWN IN THE MAINTENANCE OF TRAFFIC SHEETS.

STAGE 4 TRAFFIC

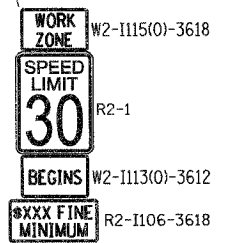
HARRISON AVENUE - PROVIDE ONE LANE OF TRAFFIC IN BOTH THE E.B. AND W.B. DIRECTIONS UTILIZING THE PROPOSED PAVEMENT.



HANSON
Hanson Professional Services Inc.

LAYOUT: RSJ 12/28/05 jam
DRAWN: RSJ 12/28/05 12:41:20 AM
REVIEWED: RXC 11/21/06 10:03:00 AM

LEGEND	
	WORK ZONE
	TRAFFIC MOVEMENT
	DRUM
	FLEXIBLE DELINEATOR

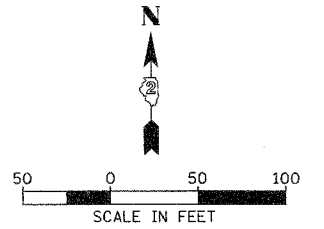


NOTE:
W4-2L SIGNS ARE TO BE INCLUDED IN THE TRAFFIC CONTROL COMPLETE PAY ITEM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SECTION 02-00518-00-BR
WINNEBAGO COUNTY
HARRISON AVENUE OVER UPRR AND CC&PRR
**MAINTENANCE OF TRAFFIC
STAGE 4**
SCALE: VERT. _____
 HORIZ. _____
DATE 12/14/06
DRAWN BY RSJ
CHECKED BY RXC

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	42
STA. TO STA.				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



STAGE 4 CONSTRUCTION

HARRISON AVENUE - CONSTRUCT RAISED MEDIAN TO THE LIMITS SHOWN IN THE MAINTENANCE OF TRAFFIC SHEETS.

STAGE 4 TRAFFIC

HARRISON AVENUE - PROVIDE ONE LANE OF TRAFFIC IN BOTH THE E.B. AND W.B. DIRECTIONS UTILIZING THE PROPOSED PAVEMENT.

HANSON
Hanson Professional Services Inc.

LAYOUT: RSJ 12/28/05 Jdm
DRAWN: RSJ 12/28/05 Jdm
REVIEWED: RVC 11/21/06 JAC3 0881037151 C:\N\8486\c-156-map-45mp\4.dgn

TEMPORARY PAVEMENT MARKING LINE - 24" (STOP BAR)
88+20.10
32.50 LT

TEMPORARY PAVEMENT MARKING LINE - 4" (WHITE)
TEMPORARY PAVEMENT MARKING LINE - 4" (WHITE SKIP-DASH)
TEMPORARY PAVEMENT MARKING LINE - 4" (YELLOW)

STILPAL, INC
2600

90+70.14
20.50 LT
90+70.14
8.50 LT
91+91.19
20.47 LT

HARRISON AVE.

TYPE III BARRICADE

MATCH LINE STA. 88+00

W2-1115(0)-3618



W2-1113(0)-3612

R2-1106-3618

TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS
BEGIN TEMPORARY PAVEMENT MARKING
88+20.10
32.50 RT

TEMPORARY PAVEMENT MARKING LINE - 4" (YELLOW)
TEMPORARY PAVEMENT MARKING LINE - 4" (WHITE)

DRUMS SPACED @ 50' CENTERS

12:1 TAPER

LEGEND

	WORK ZONE
	TRAFFIC MOVEMENT
	DRUM
	FLEXIBLE DELINEATOR

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SECTION 02-00518-00-BR
WINNEBAGO COUNTY
HARRISON AVENUE OVER UPRR AND CC&PRR
**MAINTENANCE OF TRAFFIC
STAGE 4**
SCALE: VERT. DRAWN BY RSJ
 HORIZ. CHECKED BY RVC
DATE 12/14/06

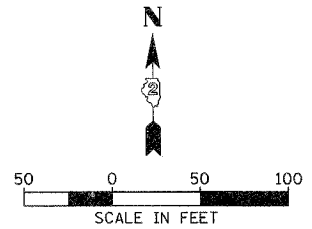
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	43
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STAGE 4 CONSTRUCTION

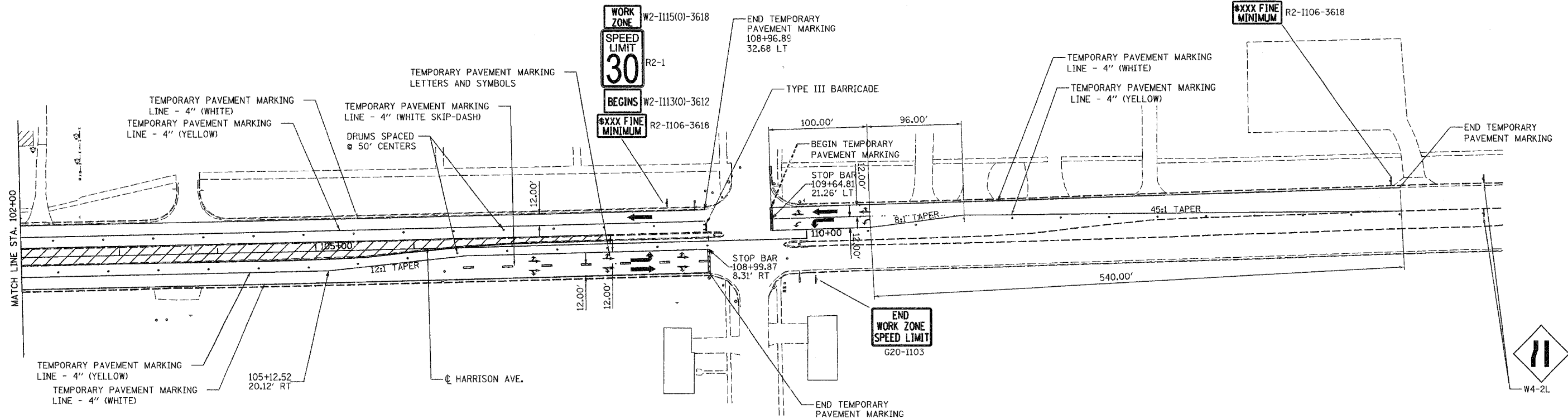
HARRISON AVENUE - CONSTRUCT RAISED MEDIAN TO THE LIMITS SHOWN IN THE MAINTENANCE OF TRAFFIC SHEETS.

STAGE 4 TRAFFIC

HARRISON AVENUE - PROVIDE ONE LANE OF TRAFFIC IN BOTH THE E.B. AND W.B. DIRECTIONS UTILIZING THE PROPOSED PAVEMENT.



HANSON Professional Services Inc.



LEGEND

	WORK ZONE
	TRAFFIC MOVEMENT
	DRUM
	FLEXIBLE DELINEATOR

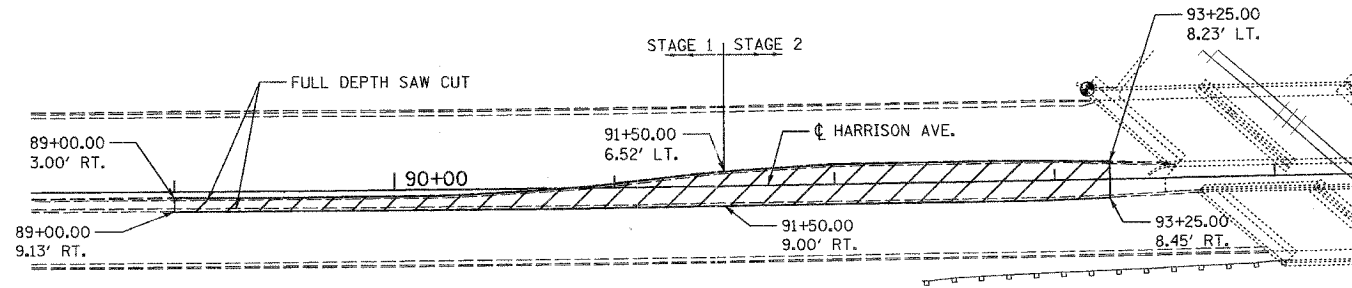
NOTE:
W4-2L SIGNS ARE TO BE INCLUDED IN THE TRAFFIC CONTROL COMPLETE PAY ITEM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SECTION 02-00518-00-BR
WINNEBAGO COUNTY
HARRISON AVENUE OVER UPRR AND CC&PRR
MAINTENANCE OF TRAFFIC STAGE 4
SCALE: VERT. DRAWN BY RSJ
 HORIZ. CHECKED BY RXC
DATE 12/14/06

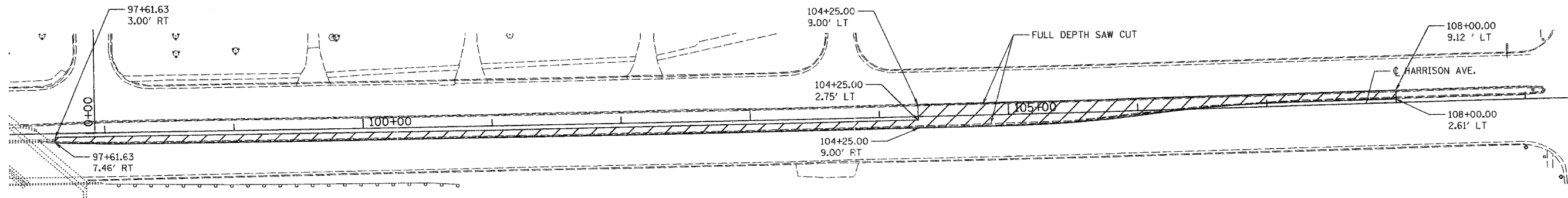
LAYOUT: RSJ 12/28/05 Jfm
DRAWN: RSJ 12/28/05 EVVA0036.09:54 AM
REVIEWED: RXC 11/21/06 JAOZ JAOZ031751/CV/S/Sheet/0157.mxd - 45mplot.dgn

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	44
STA. TO STA.				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

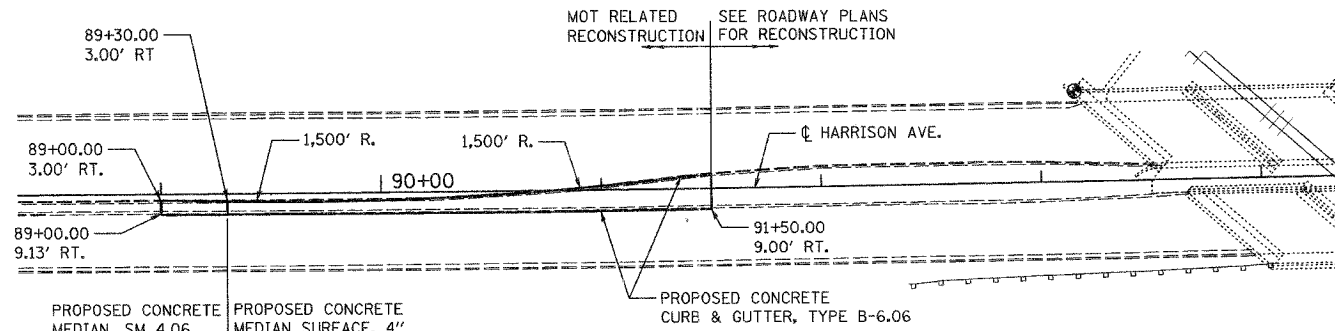


STAGE I AND STAGE II - REMOVAL OF EXISTING

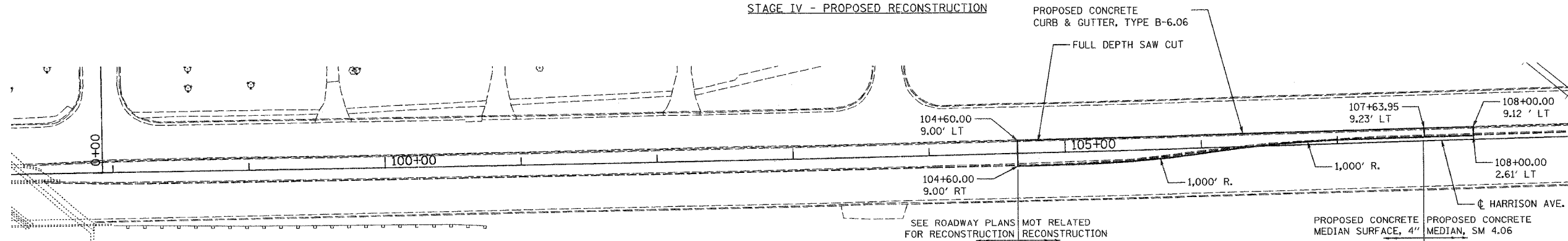
NOTE:
REMOVAL OF EXISTING FROM STA. 91+50.00 TO STA. 93+25.00 WILL OCCUR IN STAGE 2



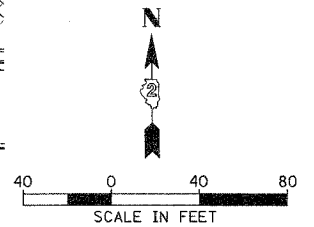
STAGE I - REMOVAL OF EXISTING



STAGE IV - PROPOSED RECONSTRUCTION



STAGE IV - PROPOSED RECONSTRUCTION



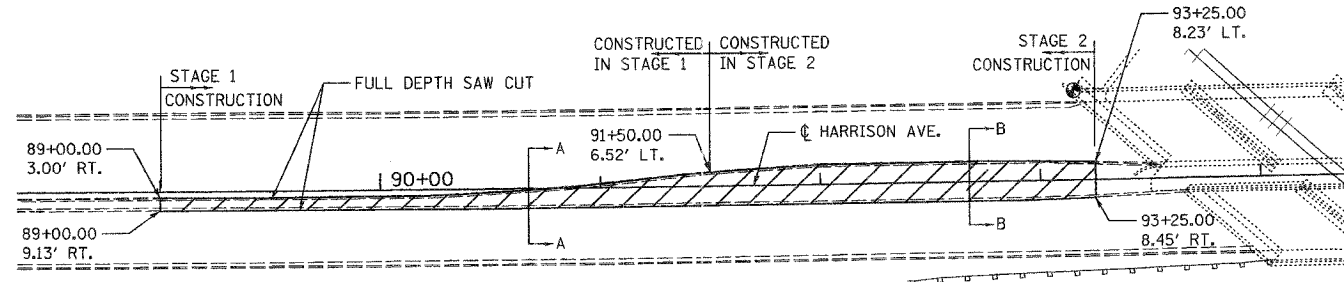
HANSON
Hanson Professional Services, Inc.

LAYOUT	RDJ	9/7/06	1/14/06
DRAWN	RDJ	9/7/06	12/14/06
REVIEWED	RXC	11/21/06	1/14/06

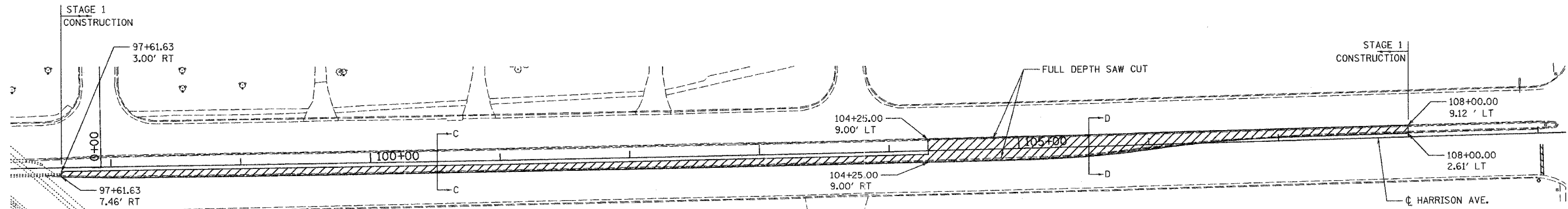
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
SECTION 02-00518-00-BR
WINNEBAGO COUNTY
HARRISON AVENUE OVER UPRR AND CC&PRR
**MEDIAN RECONSTRUCTION
DETAIL**
SCALE: VERT. DRAWN BY RDJ
 HORIZ. CHECKED BY RXC
DATE 12/14/06

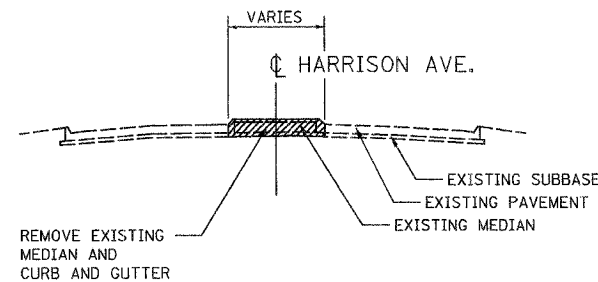
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	45
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



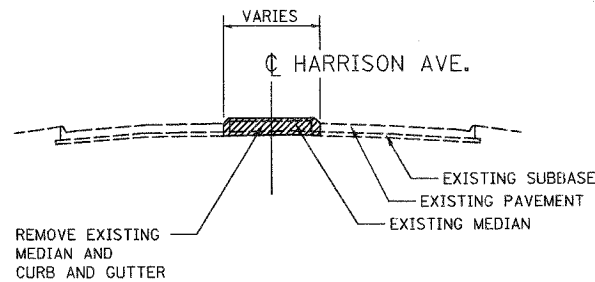
STAGE I AND STAGE II - REMOVAL OF EXISTING AND PROPOSED CONSTRUCTION LIMITS



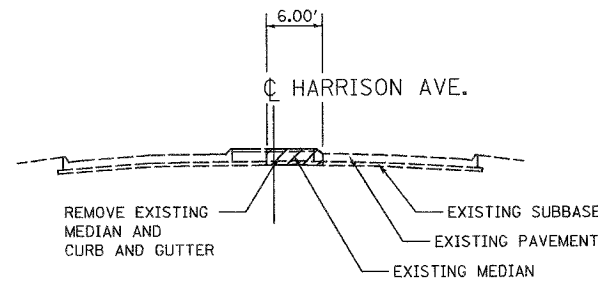
STAGE I - REMOVAL OF EXISTING AND PROPOSED CONSTRUCTION LIMITS



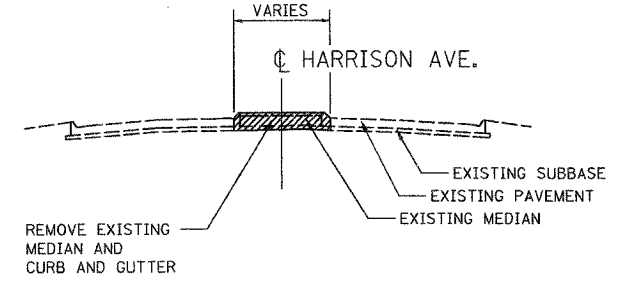
SECTION A-A STAGE I REMOVAL



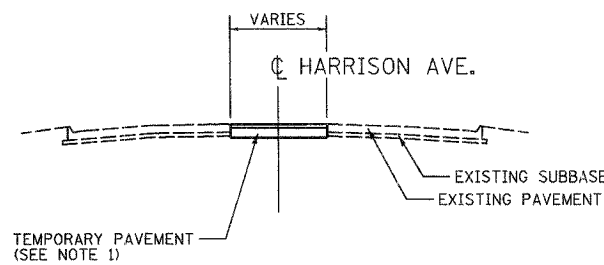
SECTION B-B STAGE II REMOVAL



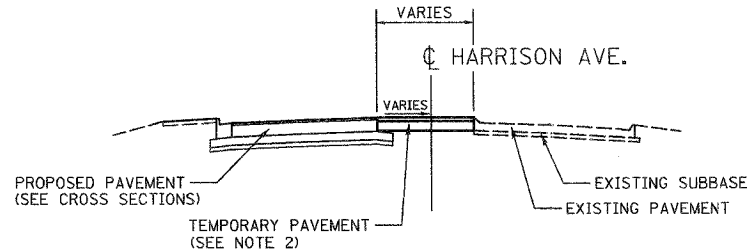
SECTION C-C STAGE I REMOVAL



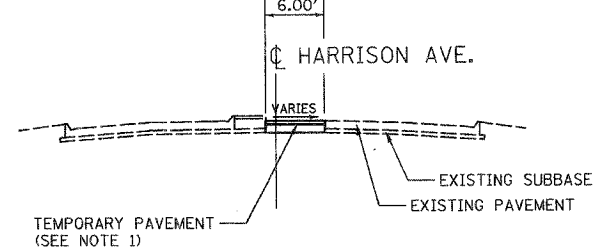
SECTION D-D STAGE I REMOVAL



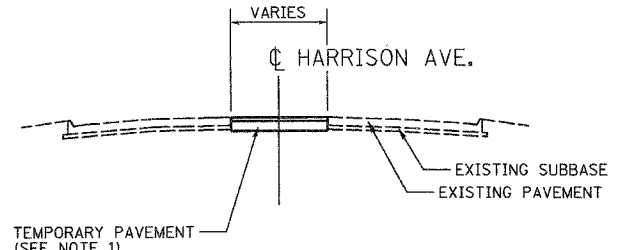
SECTION A-A STAGE I PROPOSED



SECTION B-B STAGE II PROPOSED



SECTION C-C STAGE I PROPOSED



SECTION D-D STAGE I PROPOSED

NOTES:
 1. SEE TEMPORARY PAVEMENT SPECIAL PROVISION FOR TEMPORARY PAVEMENT TYPE.
 2. TEMPORARY PAVEMENT MUST BE CONSTRUCTED ONLY AFTER PROPOSED PAVEMENT IS CONSTRUCTED IN STAGE 2.

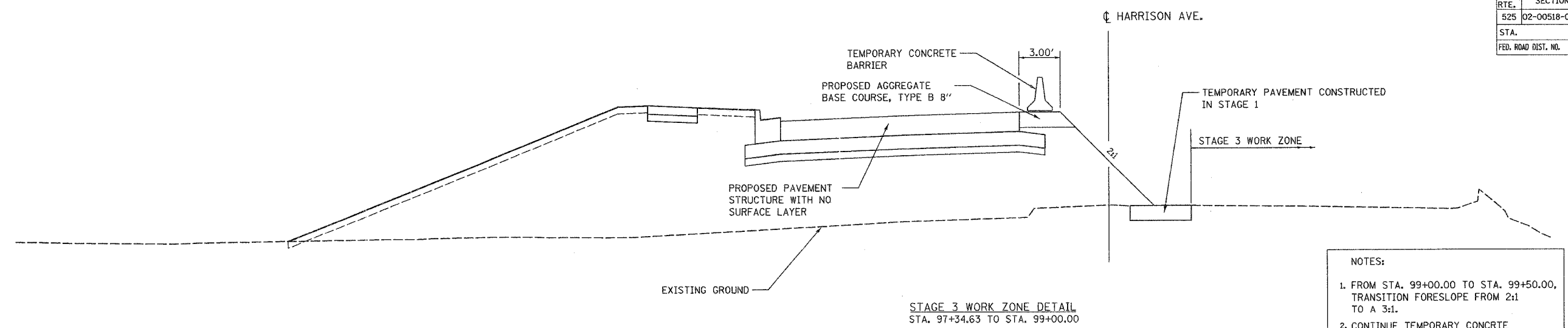
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SECTION 02-00518-00-BR
 WINNEBAGO COUNTY
 HARRISON AVENUE OVER UPRR AND CC&PRR
 MOT DETAILS
 SCALE: VERT. DRAWN BY RDJ
 HORIZ. CHECKED BY RXC
 DATE 12/14/06

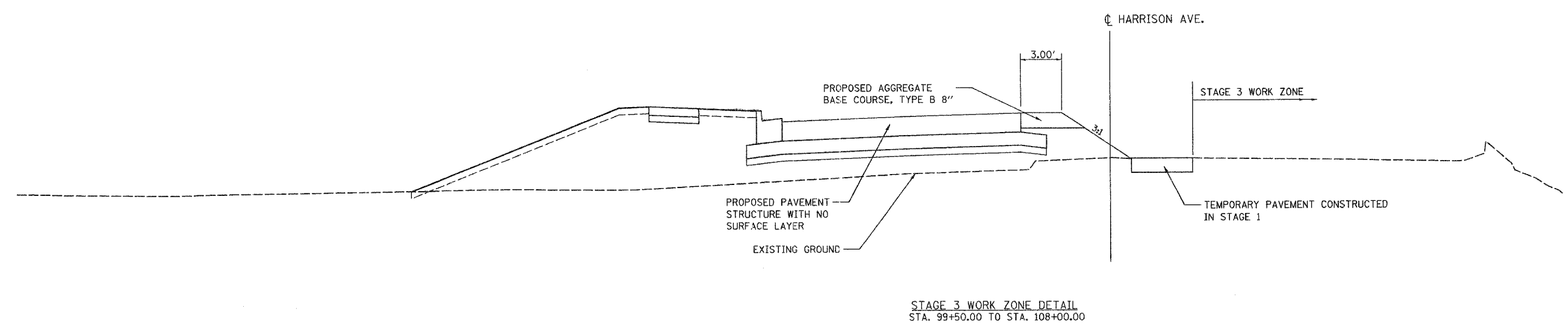
HANSON
 Hanson Professional Services, Inc.

LAYOUT 9/7/06 /dm
 DRAWN 9/7/06 /ZVAZ006.08:59 AM
 REVIEWED RXC /11/21/06 /1037dseV037/575ACM/1st/wher/wher/zone_detail2.dgn

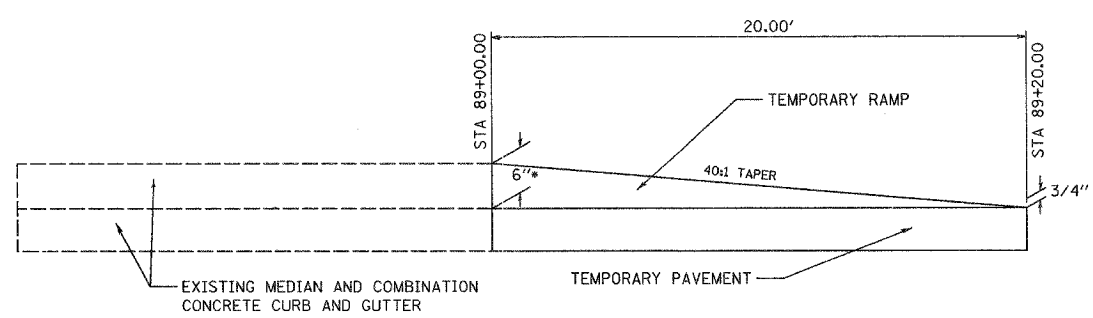
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	46
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



NOTES:
 1. FROM STA. 99+00.00 TO STA. 99+50.00, TRANSITION FORESLOPE FROM 2:1 TO A 3:1.
 2. CONTINUE TEMPORARY CONCRTE BARRIER UNTIL STA. 99+50.00.



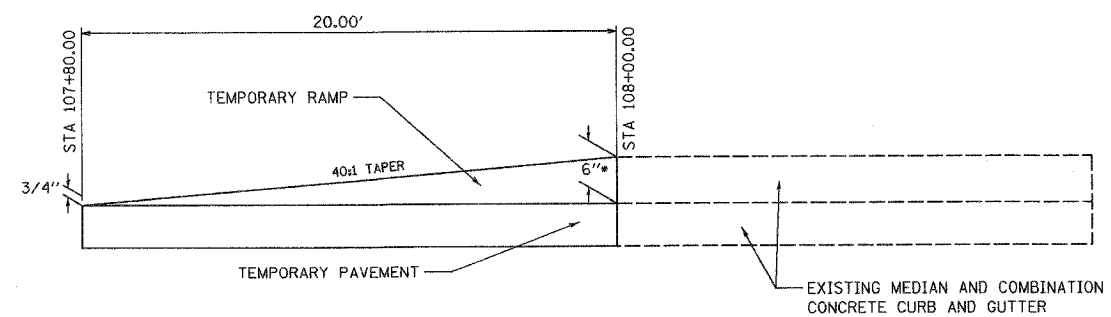
HANSON
 Hanson Professional Services Inc.



NOTE:
 SEE TEMPORARY PAVEMENT SPECIAL PROVISION FOR PAVEMENT TYPE AND THICKNESS

STAGE 1 TEMPORARY RAMP DETAIL
 STA. 89+00.00 TO STA. 89+20.00

• OR MATCH EXISTING CURB HEIGHT



NOTE:
 SEE TEMPORARY PAVEMENT SPECIAL PROVISION FOR PAVEMENT TYPE AND THICKNESS

STAGE 1 TEMPORARY RAMP DETAIL
 STA. 107+80.00 TO STA. 108+00.00

• OR MATCH EXISTING CURB HEIGHT

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SECTION 02-00518-00-BR
 WINNEBAGO COUNTY
 HARRISON AVENUE OVER UPRR AND CC&PRR

**STAGE 3 WORK ZONE
 DETAIL**

SCALE: VERT. DRAWN BY RDJ
 HORIZ. CHECKED BY RXC
 DATE 12/14/06

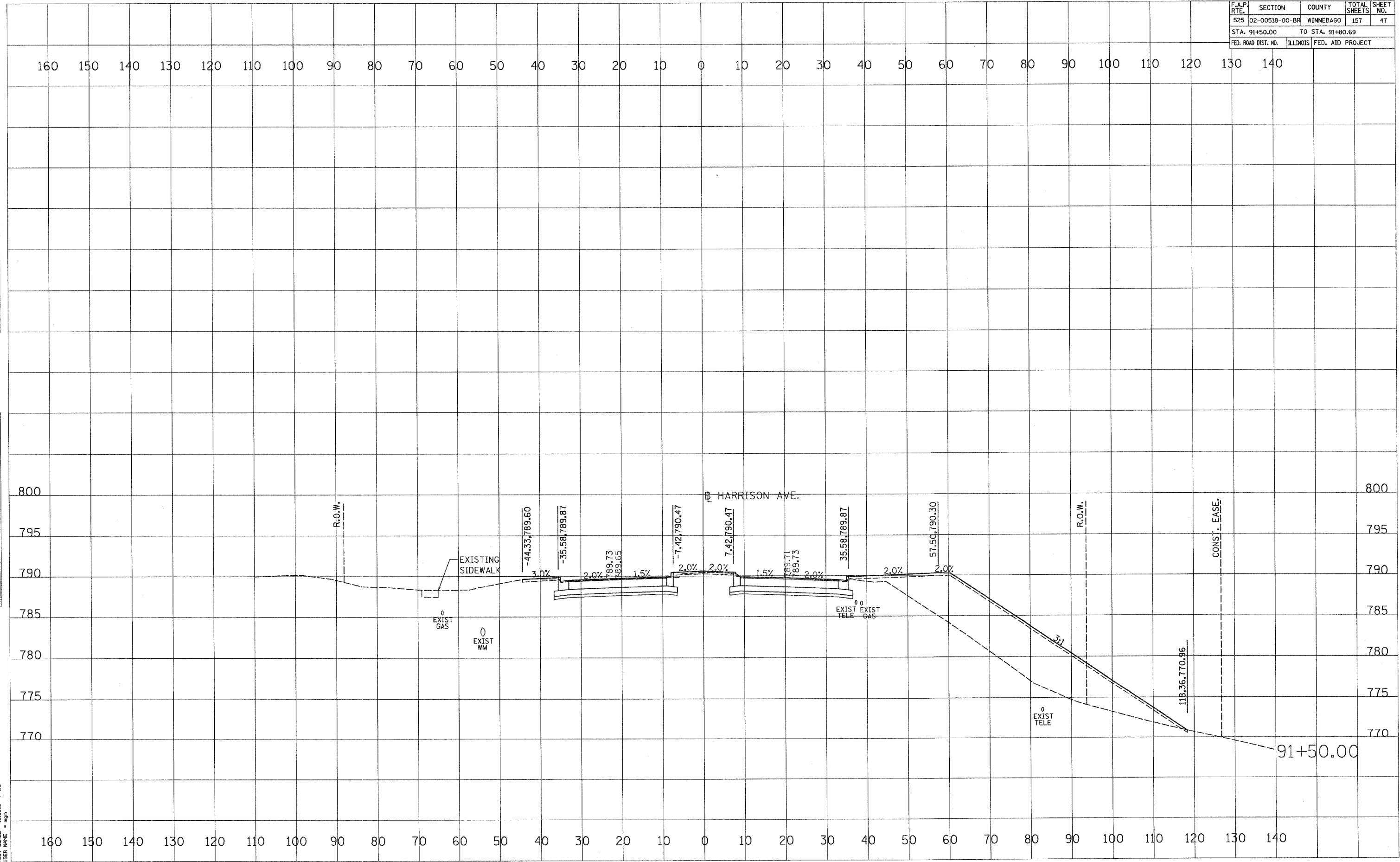
LAYOUT: RDJ 9/7/06 Jdm
 DRAWN: RDJ 9/7/06 Jdm
 REVIEWED: RJC 11/21/06 Jdm
 FILE: \\hanson\0375\CH\Winnebago\work_zone_detail.dwg

CONTRACT NO.			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
525	02-00518-00-BR	WINNEBAGO	157
STA. 91+50.00		TO STA. 91+80.69	
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	SHEET NO.
			47

SURVEY PLOTTED
 NOTE BOOK AREAS CHECKED
 NO.

SURVEY PLOTTED
 NOTE BOOK AREAS CHECKED
 NO.

PLOT DATE = 12/14/2006 11:28 AM
 FILE NAME = I:\03\p03\03175\Cvt1\shms\C-301-XSECT.dgn
 PLOT SCALE = 1/8"=1'-0"
 USER NAME = mgn

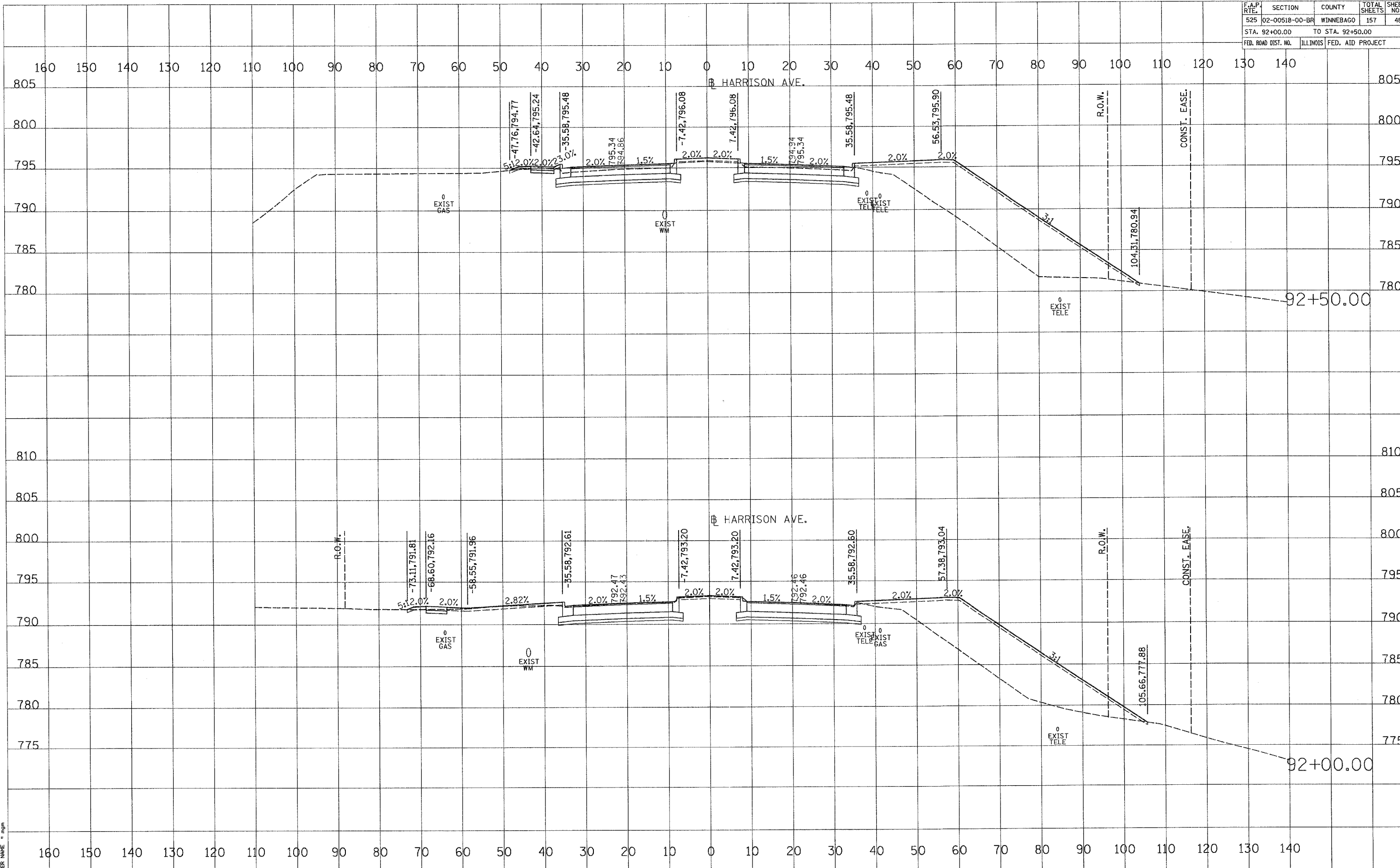


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	48
STA. 92+00.00 TO STA. 92+50.00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SURVEY	PLOTTED
NOTE BOOK	AREA CHECKED
NO.	

SURVEY	PLOTTED
NOTE BOOK	AREA CHECKED
NO.	

DATE = 12/14/2006 11:04 AM
 PLOT SCALE = 10.0000' / IN.
 USER NAME = mjm

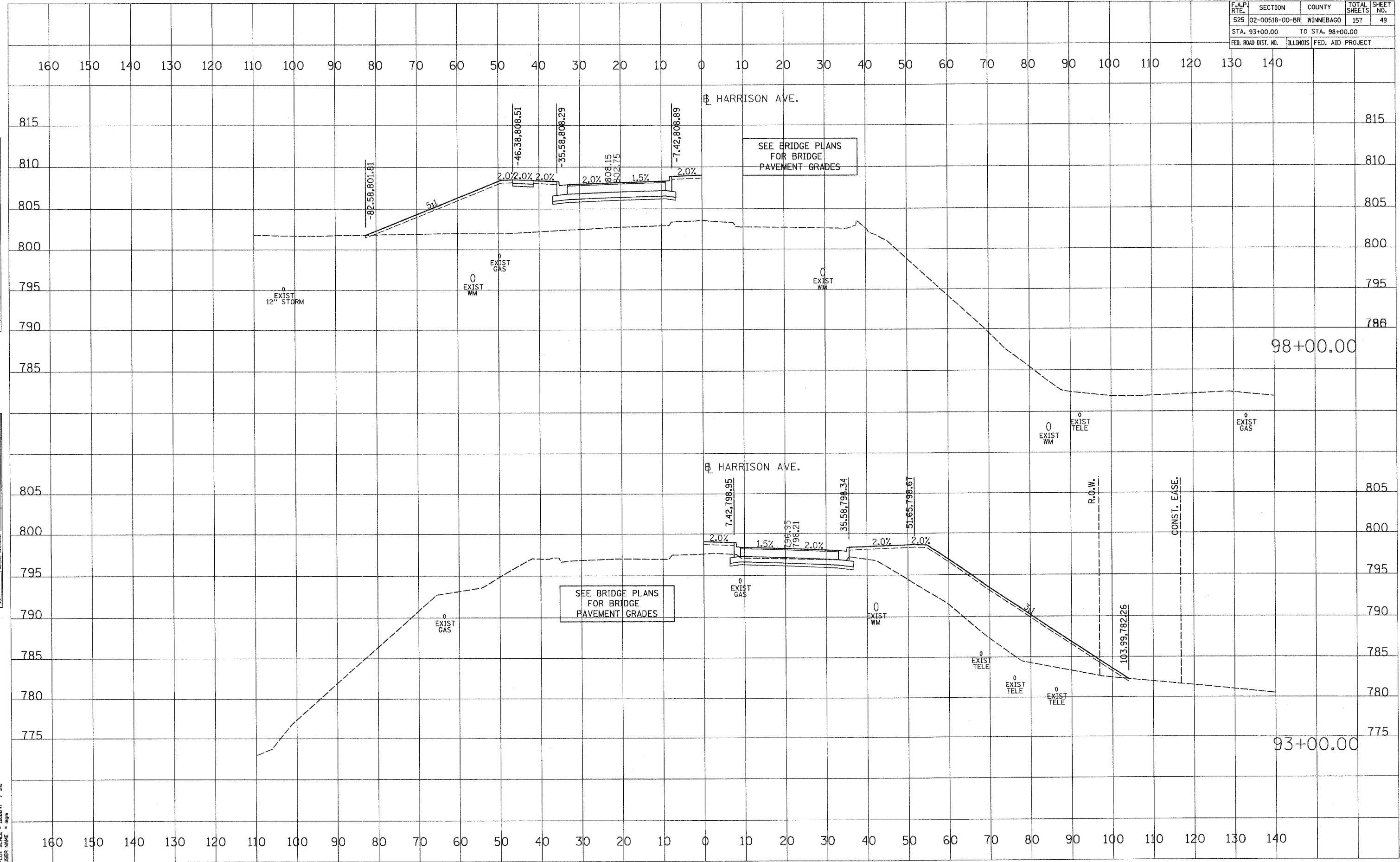


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	49
STA. 93+00.00		TO STA. 98+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

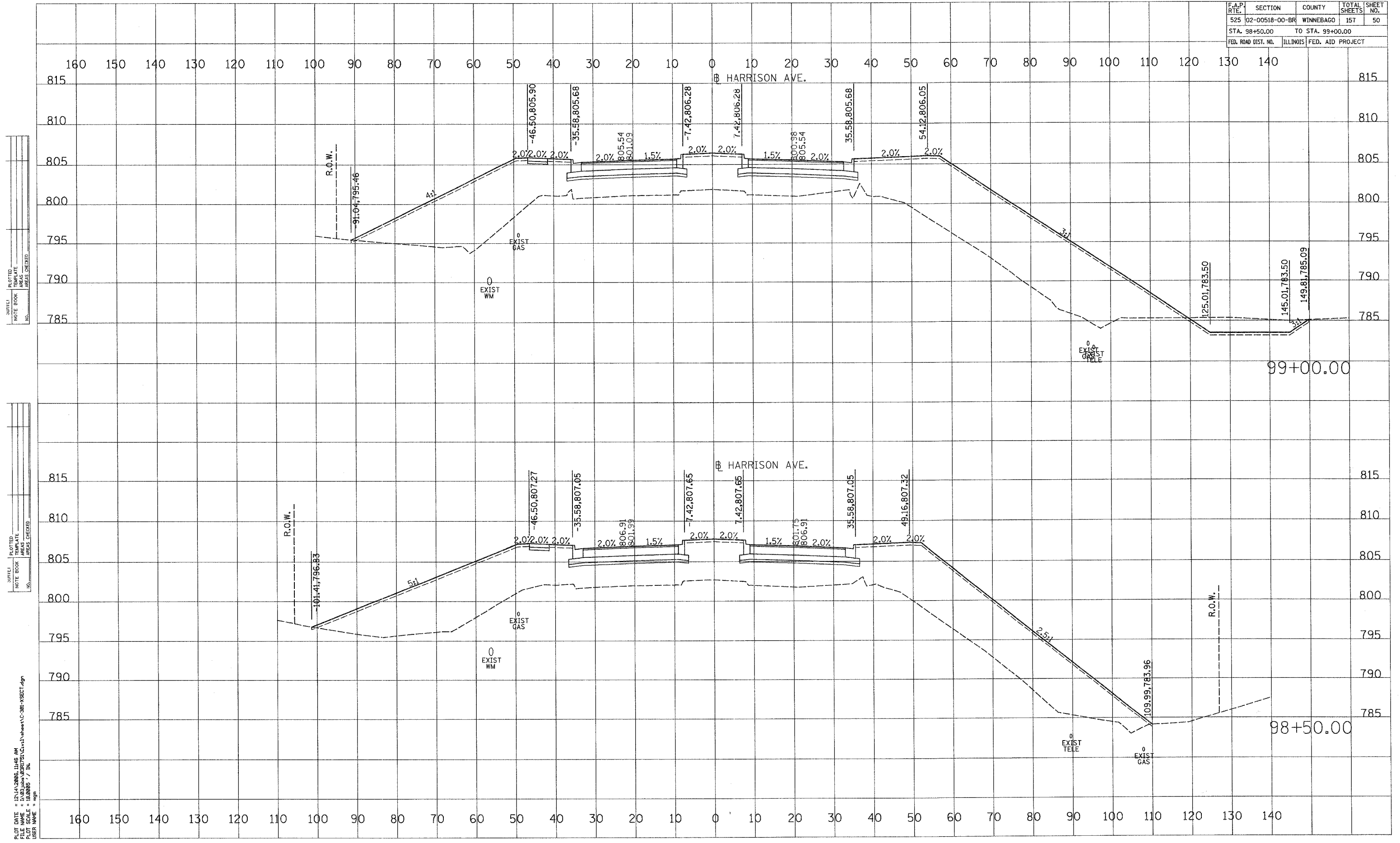
SURVEY PLOTTED
NOTE BOOK NO. _____
AREAS CHECKED

SURVEY PLOTTED
NOTE BOOK NO. _____
AREAS CHECKED

PLOT DATE = 12/14/2005 11:08 AM
FILE NAME = I:\03\job\980175\Civil\shes\C-381-XSEC1.dgn
PLOT SCALE = 1/8" = 1'-0"
USER NAME = mgm



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	50
STA. 98+50.00		TO STA. 99+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

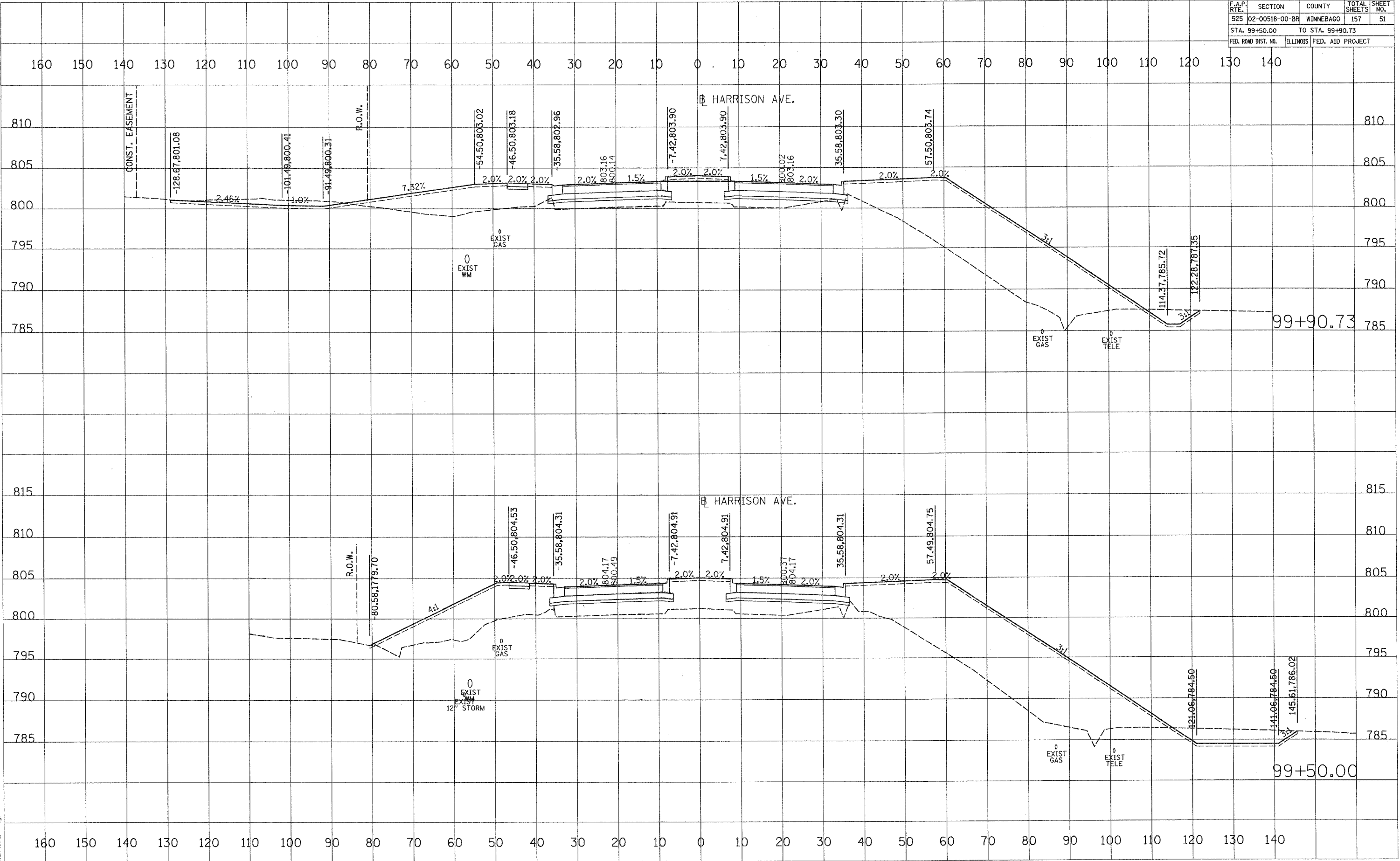


SURVEY PLOTTED
 NOTE BOOK TEMPLATE AREAS CHECKED
 NO.

SURVEY PLOTTED
 NOTE BOOK TEMPLATE AREAS CHECKED
 NO.

PLOT DATE = 12/14/2006 11:46 AM
 FILE NAME = I:\83 jobs\830725\Civil\Sheet\VC-381-XSECT.dgn
 PLOT SCALE = 1/8" = 100'
 USER NAME = mgm

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	51
STA. 99+50.00		TO STA. 99+90.73		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SURVEY PLOTTED
 NOTE BOOK NO. _____ DATE _____
 AREAS CHECKED _____
 NO. _____

SURVEY PLOTTED
 NOTE BOOK NO. _____ DATE _____
 AREAS CHECKED _____
 NO. _____

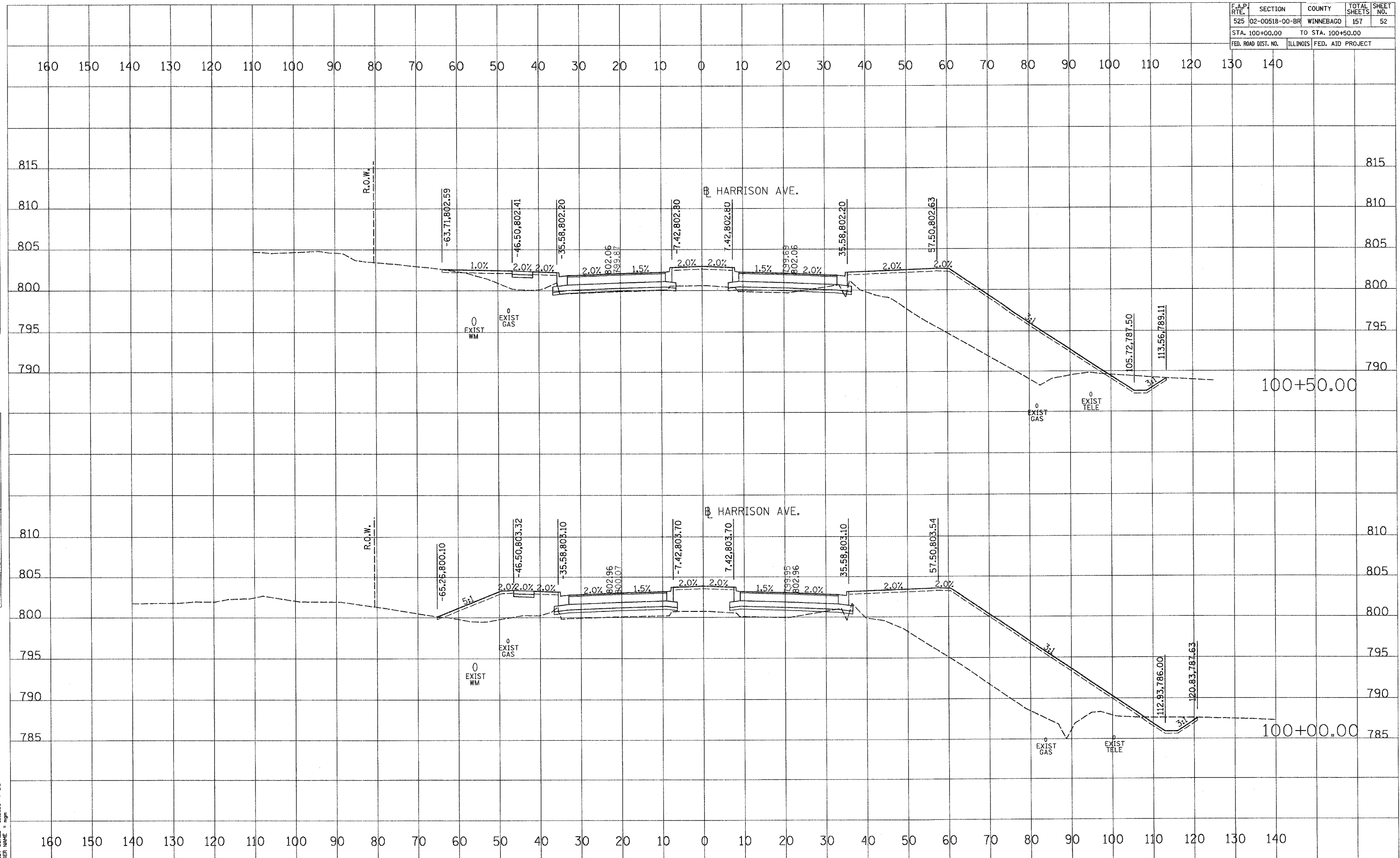
PLOT DATE = 12/13/2006 11:09 AM
 FILE NAME = I:\Projects\85399\Civil\Sheet\AC-384-XSECT.dgn
 PLOT SCALE = 1/8"=1'-0"
 USER NAME = mgn

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	52
STA. 100+00.00		TO STA. 100+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SURVEY PLOTTED
 NOTE BOOK TEMPLATE
 AREAS CHECKED

SURVEY PLOTTED
 NOTE BOOK
 AREAS CHECKED

PLOT DATE = 12/11/2006 12:46 PM
 FILE NAME = I:\AS\JOHN\B381751\Cvt1\shws\NC-381-XSECT.dgn
 PLOT SCALE = 1/8" = 100'
 USER NAME = mgm



160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

815
810
805
800
795
790

R.O.W.

HARRISON AVE.

100+50.00

810
805
800
795
790
785

R.O.W.

HARRISON AVE.

100+00.00

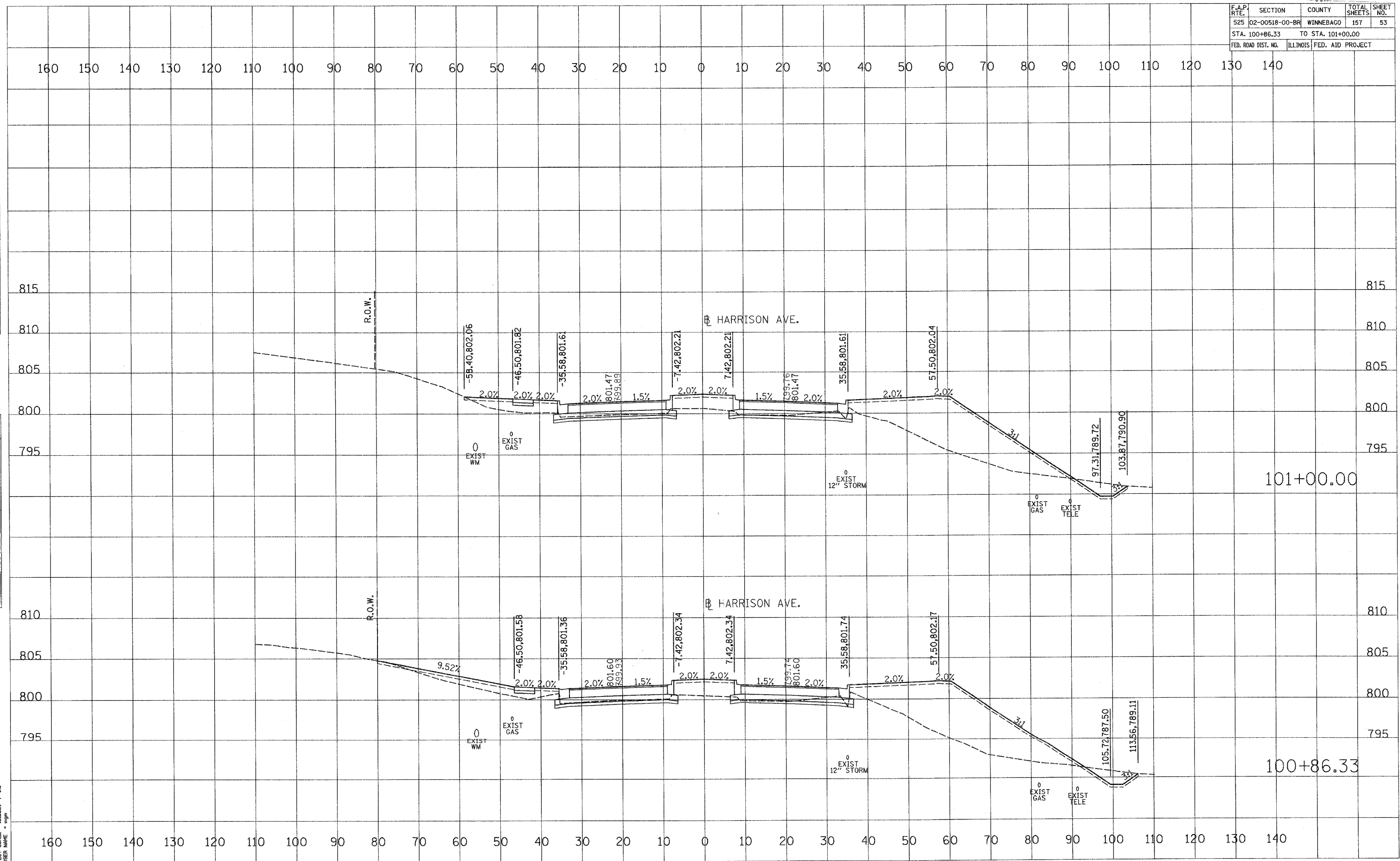
160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	53
STA. 100+86.33		TO STA. 101+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SURVEY: REPORTS
 NOTE BOOK
 TEMPLATE
 AREAS
 AREAS CHECKED

SURVEY: PLOTTED
 NOTE BOOK
 TEMPLATE
 AREAS
 AREAS CHECKED

PLOT DATE = 12/14/2006 12:28:18 PM
 FILE NAME = I:\03\jobs\2007\75\Civil\sheet\c-301-xsect.dgn
 PLOT SCALE = 1/8"=1'-0"
 USER NAME = mgh

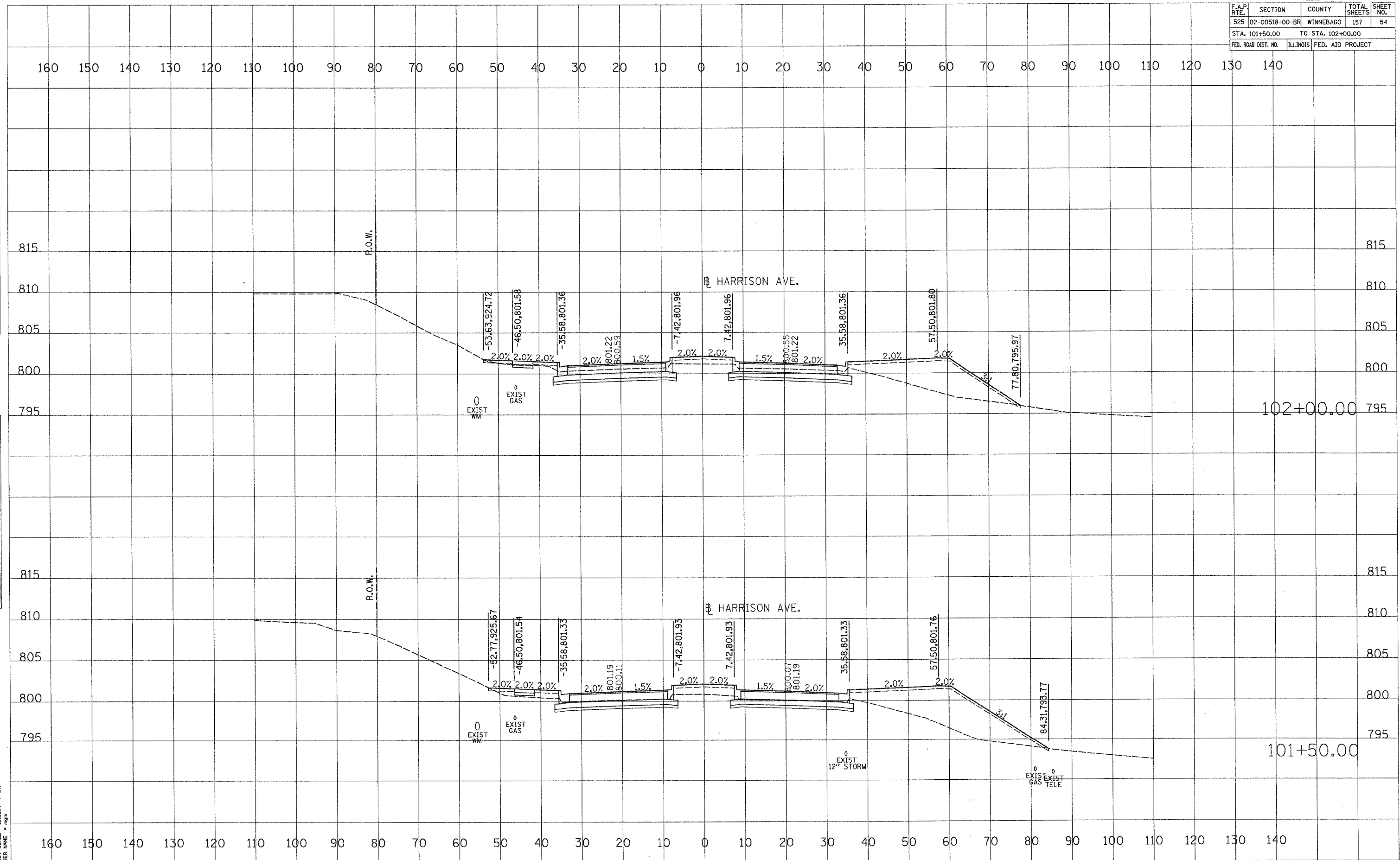


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	54
STA. 101+50.00		TO STA. 102+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SURVEIL PLOTTED
 NOTE BOOK NO. _____
 TEMPLATE AREAS CHECKED
 NO. _____

SURVEIL PLOTTED
 NOTE BOOK NO. _____
 TEMPLATE AREAS CHECKED
 NO. _____

PLOT DATE = 12/11/2006 12:08 PM
 FILE NAME = I:\02\00518\02\00518\C:\1\hess\AC-381-XSECT.dgn
 PLOT SCALE = 1/8"=1'-0"
 USER NAME = mjm

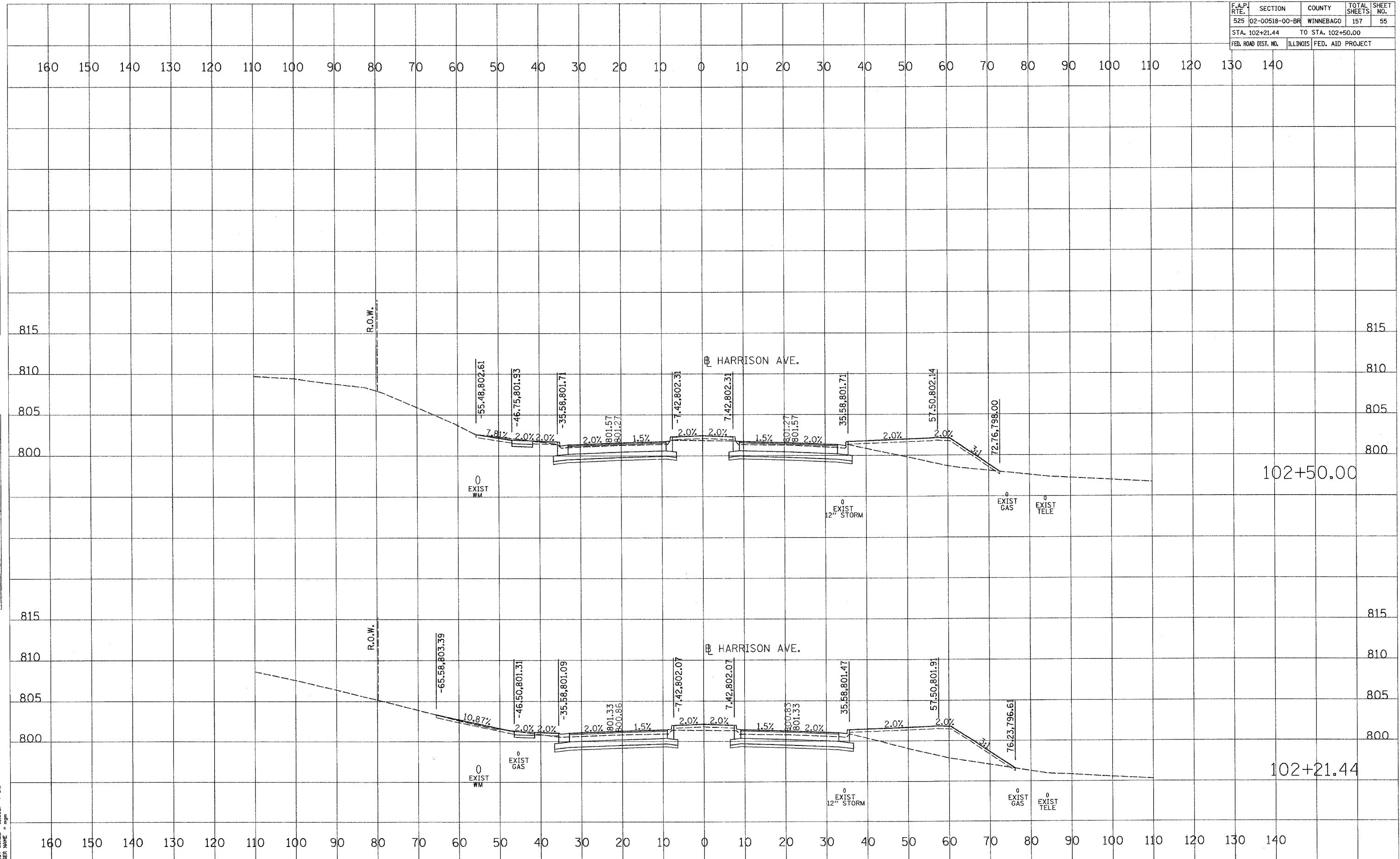


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	55
STA. 102+21.44		TO STA. 102+50.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SURVEY PLOTTED
 NOTE BOOK TEMPLATE
 AREAS CHECKED
 NO.

SURVEY PLOTTED
 NOTE BOOK TEMPLATE
 AREAS CHECKED
 NO.

PLOT DATE = 12/14/2006 11:59 AM
 FILE NAME = I:\03\user\9361751\Civil\shane\c-381-XBECT.dgn
 PLOT SCALE = 1/8"=1'-0"
 USER NAME = mgm

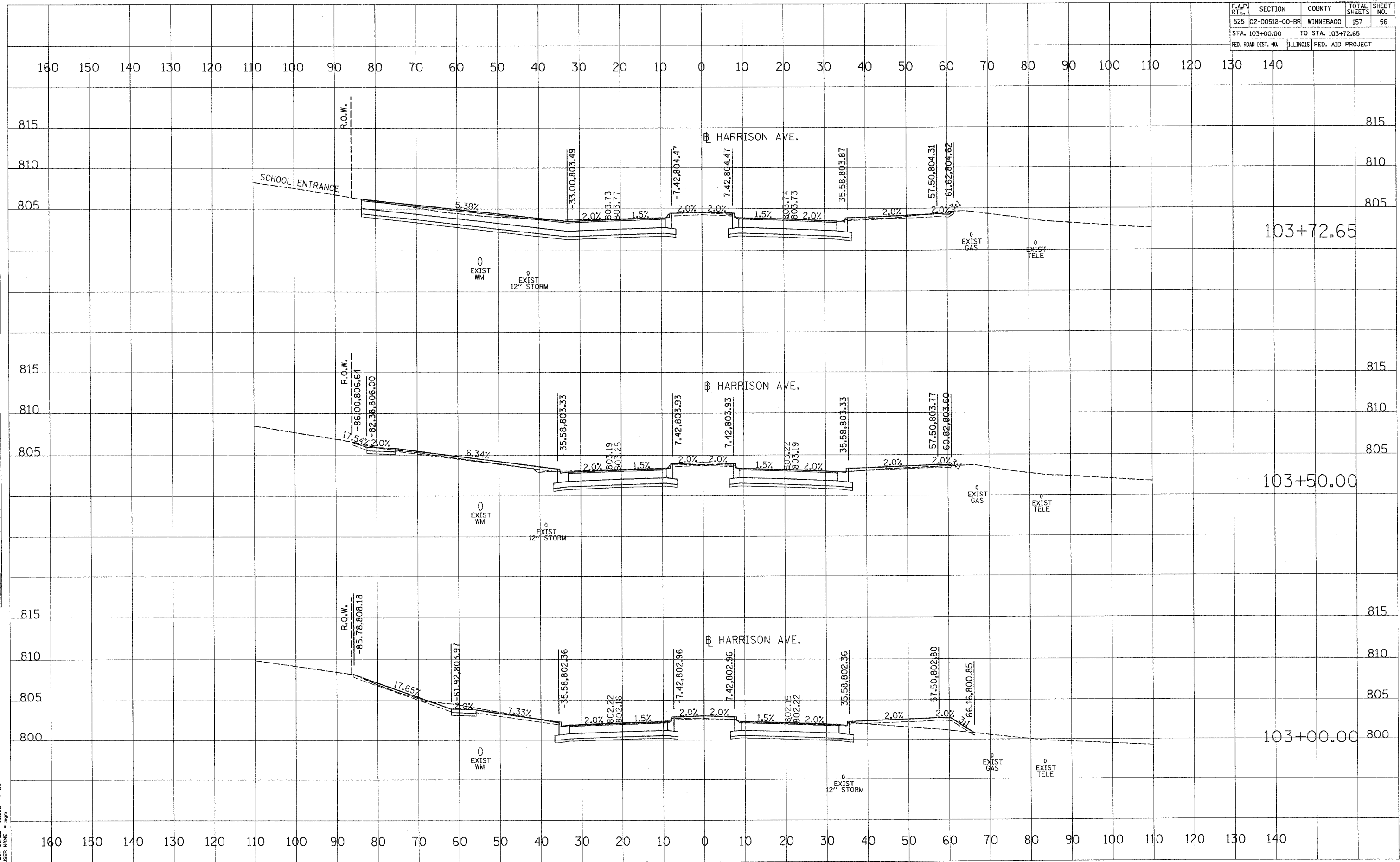


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	56
STA. 103+00.00		TO STA. 103+72.65		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SURVEY PLOTTED
 NOTE BOOK AREAS CHECKED
 NO.

PLOTTED
 NOTE BOOK AREAS CHECKED
 NO.

PLOT DATE = 12/11/2006 11:48 AM
 FILE NAME = I:\P2\JOHN\85399\85399\1\sheet\AC-381-XSECT.dgn
 PLOT SCALE = 1/8" = 1' / IN.
 USER NAME = mgn

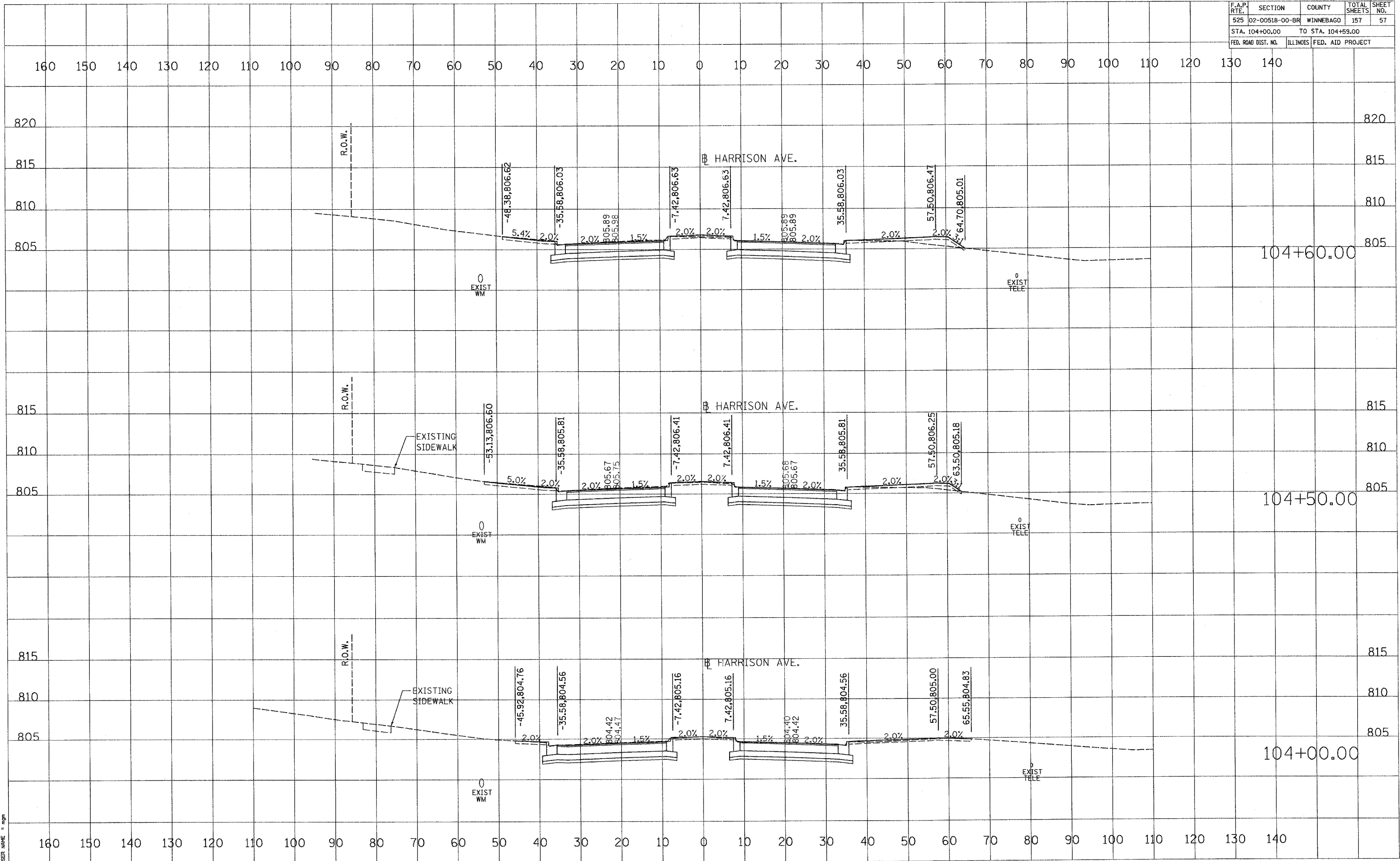


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
525	02-00518-00-BR	WINNEBAGO	157	57
STA. 104+00.00		TO STA. 104+59.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SURVEY PLOTTED
NOTE BOOK AREAS CHECKED

SURVEY PLOTTED
NOTE BOOK AREAS CHECKED

PLT DATE = 12/14/2006 10:27 AM
FILE NAME = I:\AS\2006\02\01\104+00\104+00-57.dgn
PLOT SCALE = 1/8"=1'-0"
USER NAME = mgh



ROUTE NO.	SECTION	COUNTY	STATION	SHEET	SHEET NO.
FAP 0525	6	WINNEBAGO	157	58	50 SHEETS
FED. ROAD DIST. NO. 7					ILLINOIS PROJECT
02-00518-00-BR					

Bench Mark: Standard tablet on top of the East end of the Northwest concrete wingwall of the Westbound Harrison Ave. bridge. NAVD 88 Elevation 801.03.

Existing Structure: S.N. 101-0130 consists of a continuous three-span unit and a continuous four span unit with a common center abutment and was built in 1971. The existing structure is about 387 feet long and 35.5 feet wide. The superstructure consists of six lines of composite wide flange beams (30 inches deep) with welded cover plates at the piers, which support a 7 1/2-inch thick reinforced concrete deck with a bituminous overlay. The substructure consists of pile bent abutments and reinforced concrete multi-column piers founded on spread footings. The existing structure shall be removed to at least 1 ft below the proposed elevation of subgrade or ground surface, within the area of construction. All portions of existing structures below this elevation that interfere in any way with new construction, shall be removed. Eastbound Harrison Avenue will be closed and traffic will be detoured on to Westbound Harrison Avenue during construction.

Salvage: None

Notes:

Drains and Inlets shall be located clear of all diaphragms.

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges.
1999 AASHTO Guide for the development of Bicycle Facilities.

LOADING HS20-44

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

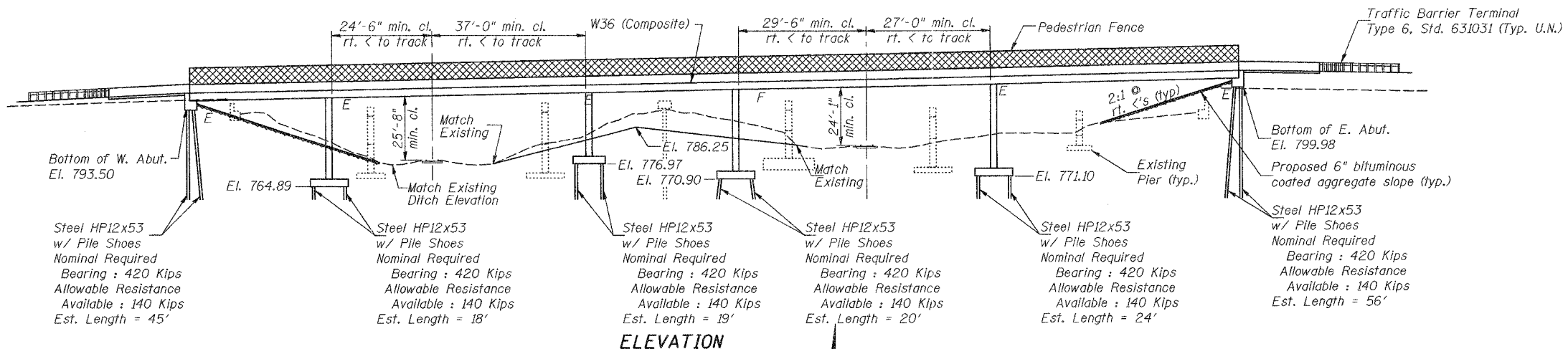
DESIGN STRESSES

FIELD UNITS

- $f'_c = 3,500$ psi
- $f_y = 60,000$ psi (reinforcement)
- $f_y = 36,000$ psi (structural steel)
- AASHTO M270 Gr. 36
- $f_y = 50,000$ psi (structural steel)
- AASHTO M270 Gr. 50

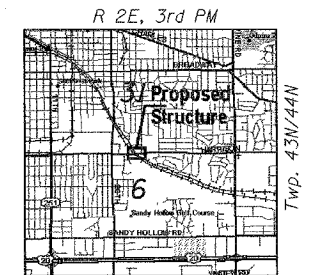
SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.03g
Site Coefficient (S) = 1.0

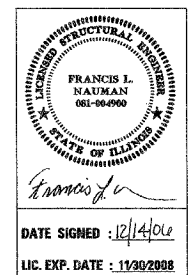


ELEVATION

(Eastbound Bridge - Looking North)



LOCATION SKETCH



DATE SIGNED: 12/14/06
LIC. EXP. DATE: 11/30/2008

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

Corporate License Number 184-001-084

GENERAL PLAN & ELEVATION

**EASTBOUND HARRISON AVENUE
OVER UP & CC&P RAILROAD
F.A.P. ROUTE 0525
SECTION 02-00518-00-BR
ROCKFORD, ILLINOIS
STATION 95+72.00
STRUCTURE NO. 101-6111**

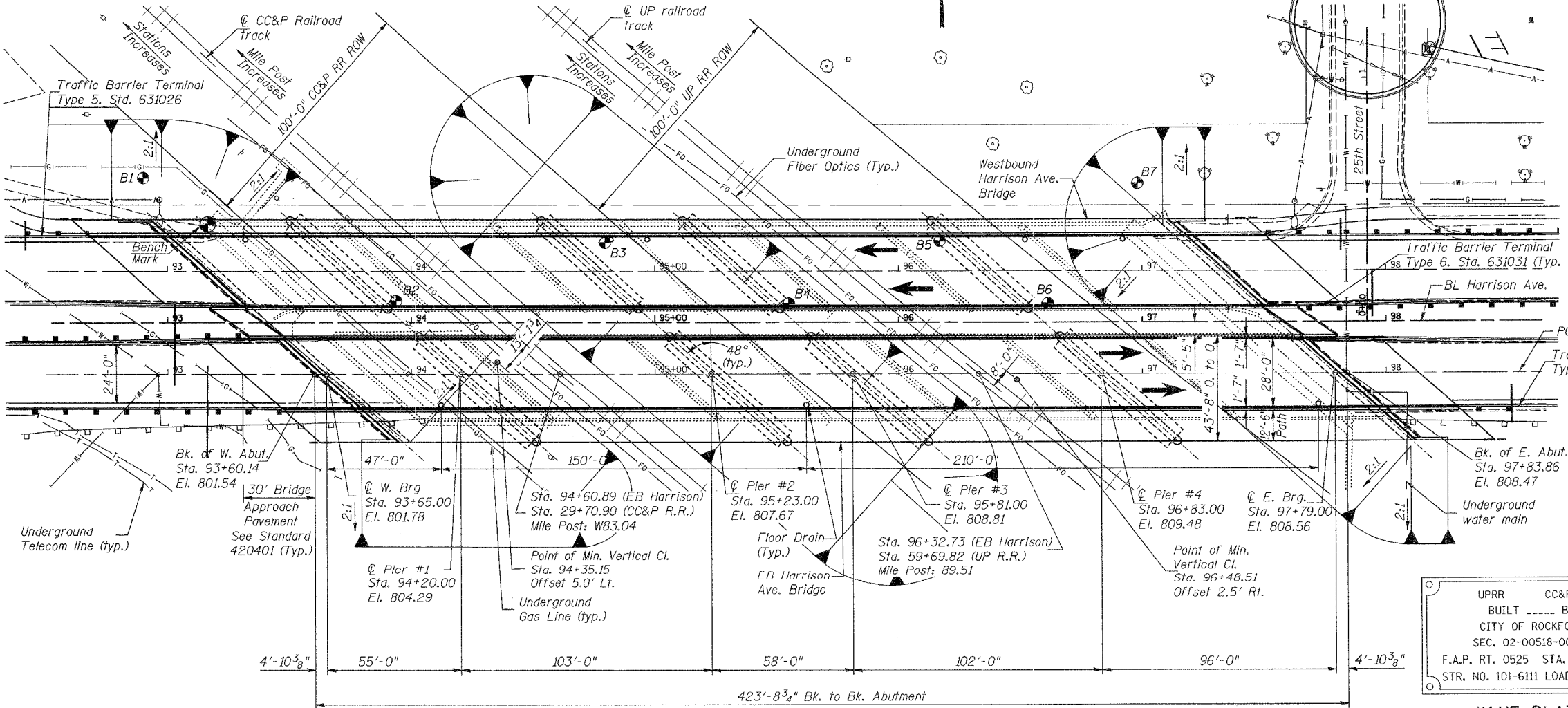
© Copyright Hanson Professional Services Inc. 2006



UPRR	CC&PRR
BUILT	BY
CITY OF ROCKFORD	
SEC. 02-00518-00-BR	
F.A.P. RT. 0525	STA. 95+72.00
STR. NO. 101-6111 LOADING HS20	

NAME PLATE

SEE STD. 515001
(SEE SHEET 13 OF 50 FOR LOCATION)



PLAN

Indicates boring location

11-04-04 AM
 12/14/2006 11:40 AM
 I:\02\105\03\17\151\Struct\Sheet\East\Bourne\00-EB-SPR-E.dgn
 LAYOUT
 FLN 08/23/05
 DRAWN 09/20/05
 MCM
 REVIEWED 09/04/06
 FLN

GENERAL NOTES

- Fasteners shall be high strength bolts (AASHTO M 164, Type 1 or 2). Bolts $\frac{7}{8}$ " ϕ , open holes $\frac{15}{16}$ " ϕ , unless otherwise noted.
- Calculated weight of Structural Steel = 519,246 lbs (AASHTO M270 Grade 50)
Calculated weight of Structural Steel = 51,213 lbs (AASHTO M270 Grade 36)
- Field welding of construction accessories will not be permitted to beams or girders.
- Anchor bolts shall be set before bolting diaphragms over supports.
- The structural steel bearing plates of the Elastomeric Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50.
- The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the wide flange beams, webs and all splice plate material except fill plates.
- Reinforcement bars shall conform to the requirements of AASHTO M 31, M 42 or M 53 Grade 60.
- Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.
- The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\frac{1}{8}$ inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two $\frac{1}{8}$ " adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims. (For Type I Elastomeric Bearings, two $\frac{1}{8}$ " adjusting shims shall be provided for each bearing and placed as detailed).
- The contractor shall drive 1 steel HP 12x53 test pile in a permanent location at each abutment and each pier as directed by the Engineer before ordering the remainder of piles. The steel H-Piles shall be according to AASHTO M270 Grade 50. The test piles shall be driven to 110 percent of the Nominal Required Bearing indicated in the pile data information.
- The concrete for bridge floors finished according to Article 503.16 of the Standard Specifications, shall be placed and compacted parallel to the skew in uniform increments along centerline of bridge. The finishing machine, when required, shall be set parallel to the skew for striking off and screeding the concrete.
- Concrete Sealer shall be applied to the seat area of the abutments.
- Protective coat shall be applied to the entire top surface of the bridge deck, top surface of the bridge approach, the top surface of the multi-use path, the top and inside face of the concrete parapet near the roadway median and the top and both faces of the concrete parapet along the north side of the bridge.
- When the deck pour is stopped for the day at one or more of the Transverse Bonded Construction Joints in the deck Pouring Sequence as shown, the next pour shall not be made until both of the following requirements are met:
 - At least 72 hours shall have elapsed from the end of the previous pour.
 - The concrete strength shall have attained a minimum flexural strength of 650 psi or a minimum compressive strength of 3500 psi.
- The organic zinc rich primer/epoxy/urethane paint system shall be used for painting of new structural steel except where otherwise noted. The entire system shall be shop applied, with the exception that masked off connection surfaces, field installed fasteners and damaged areas shall be touched up in the field. The color of the final finish coat for all steel surfaces shall be gray, Munsell No. 5B 7/1. See Special Provision for Cleaning and Painting New Metal Structures.
- Floor drains shall be located clear of all diaphragms. If adjustments to the drain locations are required, the drain shall be adjusted away from the nearest pier/abutment.
- The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- All construction joints shall be bonded.

- If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06 of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.
- Demolition, falsework and shoring shall meet the Union Pacific (UP) and Chicago Central & Pacific (CC&P) railroad requirements and shall be reviewed and approved by the UPRR & CC&RR.
- The proposed bridge structure will not change the quantity and/or characteristic of flow in the railway's ditches.

INDEX OF SHEETS

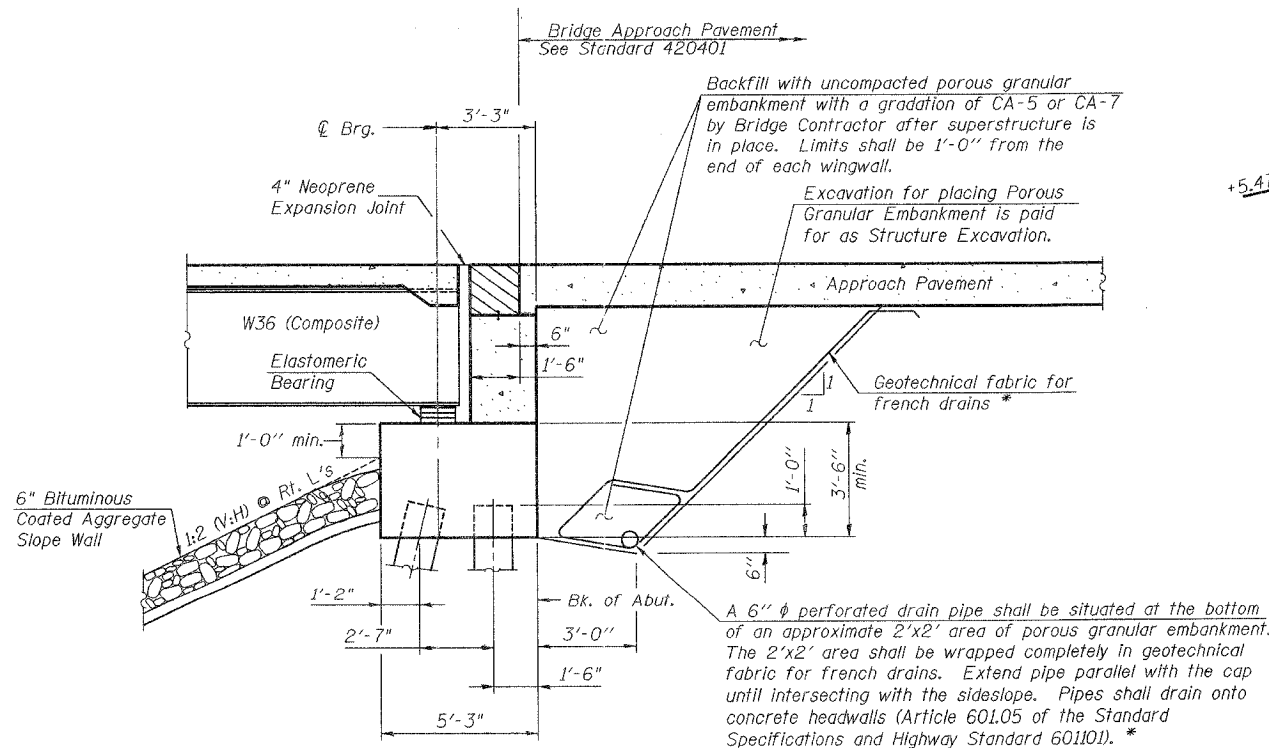
TITLE	SHEET #
General Plan & Elevation	1
General Notes & Details	2
Pier Excavation Protection Plan	3-4
Protective Shield	5
Top of Slab Elevations	6-9
Superstructure	10-11
Superstructure Details	12-16
Neoprene Expansion Joint	17
Parapet Steel Railing	18
Pedestrian Railing	19
Bridge Fence Railing (Sidewalk)	20
Drainage System Details	21
Structural Steel Framing Plan	22
Beam Elevation	23
Structural Steel Details	24-25
Bearing Details	26-28
Anchor Bolt Details	29
West Abutment	30-32
East Abutment	33-35
Pier 1	36-37
Pier 2	38-39
Pier 3	40-41
Pier 4	42-43
Bar Splicer Assembly Details	44
West Slopewall	45
East Slopewall	46
Grading Between Piers 2 & 3	47
Boring Logs	48-50

West Rail		East Rail	
Station	Elevation	Station	Elevation
26+19.76	777.08	26+19.85	776.95
27+21.36	776.59	27+21.57	776.45
28+25.84	776.14	28+25.36	776.05
29+24.38	775.70	29+23.68	775.63
29+88.23	775.38	29+88.24	775.29
30+82.51	774.83	30+82.58	774.74
31+03.43	774.32	31+86.06	774.22
32+89.05	773.80	32+87.89	773.67
33+86.26	773.35	33+85.69	773.25

EXISTING TOP OF RAIL ELEVATIONS CC&P R.R.

West Rail		East Rail	
Station	Elevation	Station	Elevation
56+42.51	781.93	56+42.81	781.86
57+35.39	781.55	57+35.41	781.49
58+40.71	781.25	58+40.95	781.18
59+38.16	781.10	59+37.71	780.97
60+10.65	780.91	60+10.57	780.78
60+80.42	780.74	60+79.92	780.83
61+70.81	780.51	61+70.65	780.43
62+60.36	780.15	62+60.18	780.04
63+59.19	779.41	63+58.67	779.34

EXISTING TOP OF RAIL ELEVATIONS UP R.R.



* Included in the cost of Porous Granular Embankment.

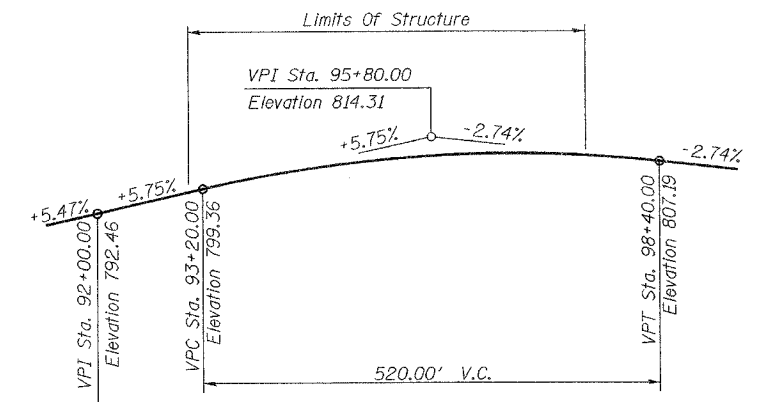
SECTION THRU ABUTMENT

(Horiz. dim. @ Rt. L's)

ROUTE NO.	SECTION	COUNTY	DATE	SHEET	SHEET NO.
FAP 0525	0	WINNEBAGO	157	59	2
FED. ROAD DIST. NO. 7					50 SHEETS
PROJECT NO. 02-00518-00-BR					

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment	Cu. Yd.	-	238	238
Removal of Existing Structures - No. 2	Each	-	-	1
Slope Wall Removal	Sq. Yd.	-	305	305
Structure Excavation	Cu. Yd.	-	2,020	2,020
Floor Drains	Each	3	-	3
Neoprene Expansion Joint 4"	Foot	128	-	128
Concrete Structures	Cu. Yd.	-	971.3	971.3
Concrete Superstructure	Cu. Yd.	584.1	-	584.1
Bridge Deck Grooving	Sq. Yd.	1205	-	1205
Concrete Encasement	Cu. Yd.	-	8.5	8.5
Protective Coat	Sq. Yd.	2760	-	2760
Elastomeric Bearing Assembly, Type I	Each	6	-	6
Elastomeric Bearing Assembly, Type II	Each	18	-	18
Furnishing and Erecting Structural Steel - Bridge No. 2	L. Sum	1	-	1
Stud Shear Connectors	Each	5712	-	5712
Reinforcement Bars, Epoxy Coated	Pound	143,020	131,680	274,700
Furnishing Steel Piles, HP 12x53	Foot	-	2,793	2,793
Driving Piles	Foot	-	2,793	2,793
Test Pile Steel HP 12x53	Each	-	6	6
Pile Shoes	Each	-	110	110
Name Plates	Each	1	-	1
Concrete Sealer	Sq. Ft.	-	425	425
HLMR Bearings, Guided Exp. 300k	Each	6	-	6
Bar Splicers	Each	1138	-	1138
Parapet Railing	Foot	475	-	475
Bridge Fence Railing (Sidewalk)	Foot	442	-	442
Pedestrian Railing	Foot	439	-	439
Bituminous Coated Aggregate Slopewall, 6"	Sq. Yd.	-	878	878
Protective Shield	Sq. Yd.	1115	-	1115
Drainage System	L. Sum	0.5	-	0.5
Structure Excavation Protection for Pile Bents, No. 4	Each	-	1	1
Structure Excavation Protection for Pile Bents, No. 5	Each	-	1	1
Structure Excavation Protection for Pile Bents, No. 6	Each	-	1	1
Anchor Bolts, 1"	Each	48	-	48
Anchor Bolts, 1 1/2"	Each	24	-	24
Anchor Bolts, 1 1/2"	Each	24	-	24
Permanent Survey Marker, Type I	Each	1	-	1



PROFILE GRADE

Corporate License Number 184-001-084

GENERAL NOTES & DETAILS

**EASTBOUND HARRISON AVENUE
OVER UP & CC&P RAILROAD
F.A.P. ROUTE 0525
SECTION 02-00518-00-BR
ROCKFORD, ILLINOIS
STATION 95+72.00
STRUCTURE NO. 101-6111**

© Copyright Hanson Professional Services Inc. 2006

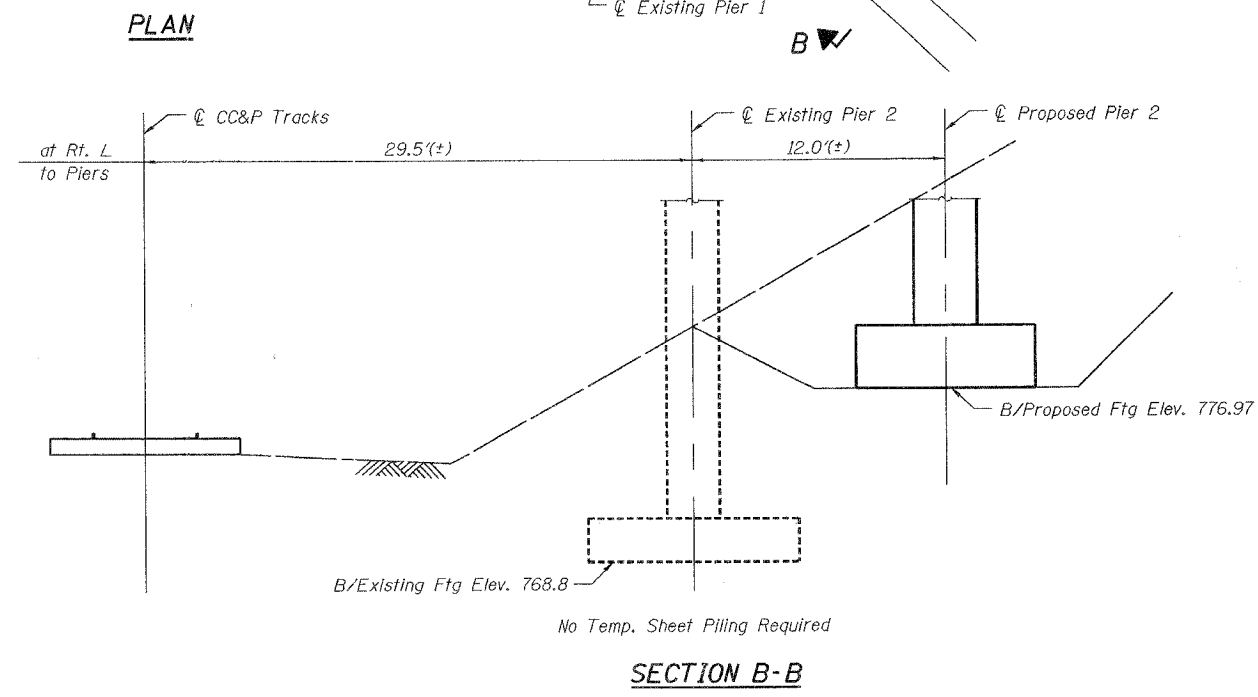
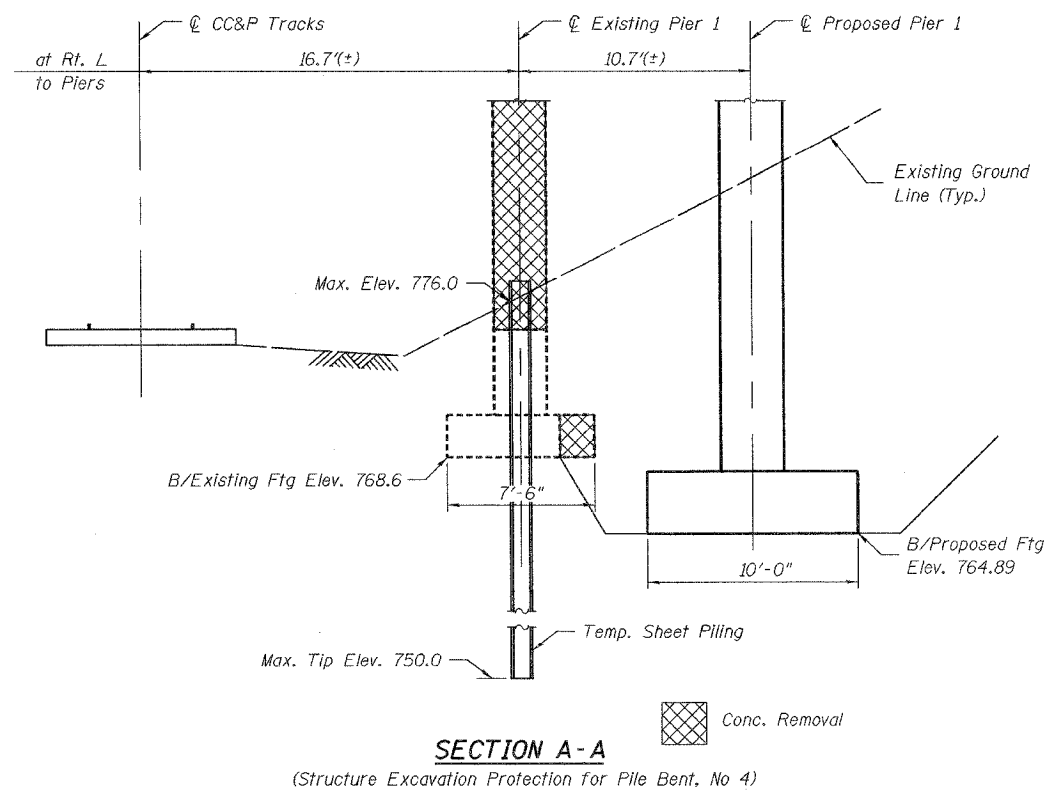
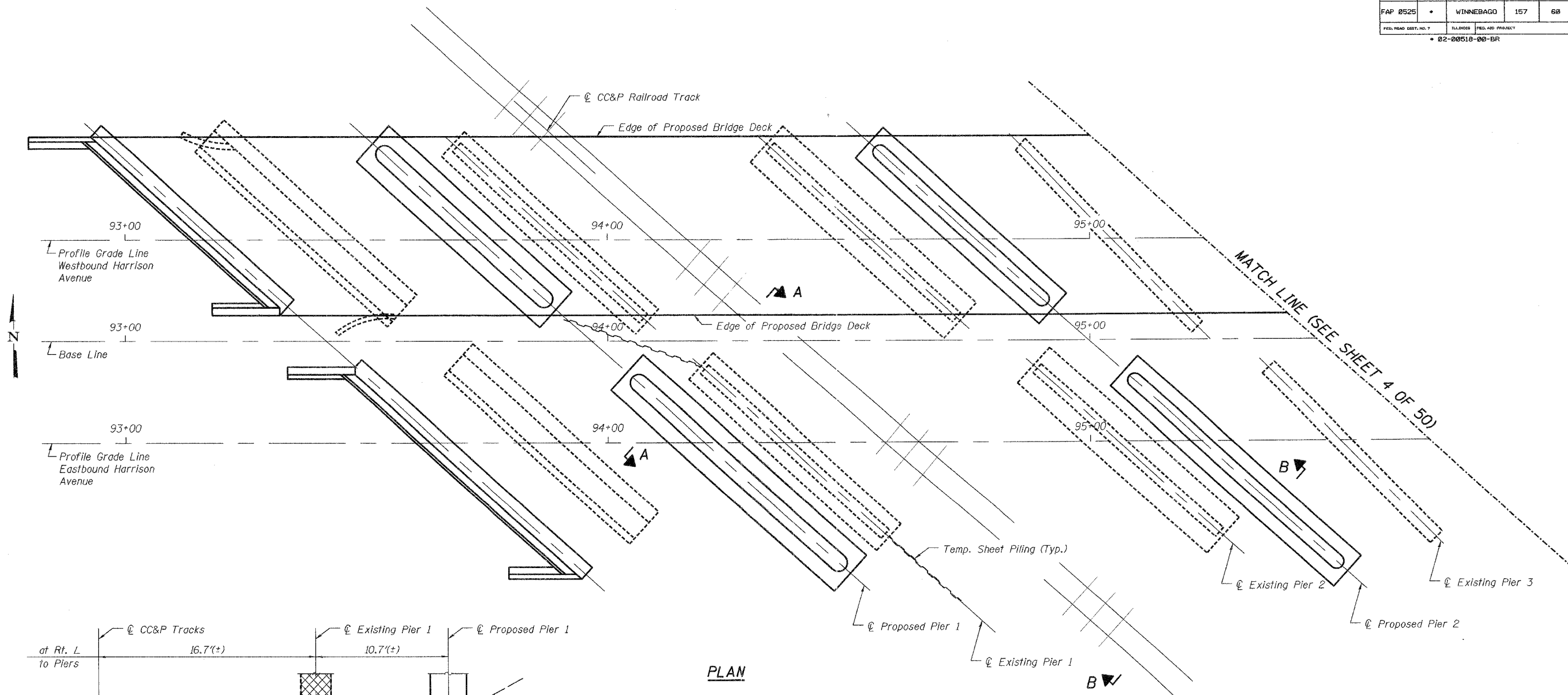


03R1751

DATE 12/14/06

12/28/06 PM 12:13:00.06.028 PM
 DRAWN: MDM/RR 12/11/06
 REVIEWED: FLN 12/11/06
 LAYOUT: FLN 11/14/05
 12/13/06

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET	SHEET NO. 3
FAP 0525	*	WINNEBAGO	157	68	50 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		
* 02-00518-00-BR					



3:47:38 PM
 12/12/2006 03:47 PM
 I:\03\proj\030715\Struct\Sheet\East Bound\S-002-EB-F\pilot.dgn
 LAYOUT JKR 07/11/06
 DRAWN JKR 07/19/06
 REVIEWED SHK 08/04/06

Corporate License Number 184-001-084

PIER EXCAVATION PROTECTION PLAN

EASTBOUND HARRISON AVENUE
 OVER UP & CC&P RAILROAD
 F.A.P. ROUTE 0525
 SECTION 02-00518-00-BR
 ROCKFORD, ILLINOIS
 STATION 95+72.00
 STRUCTURE NO. 101-6111

© Copyright Hanson Professional Services Inc. 2006

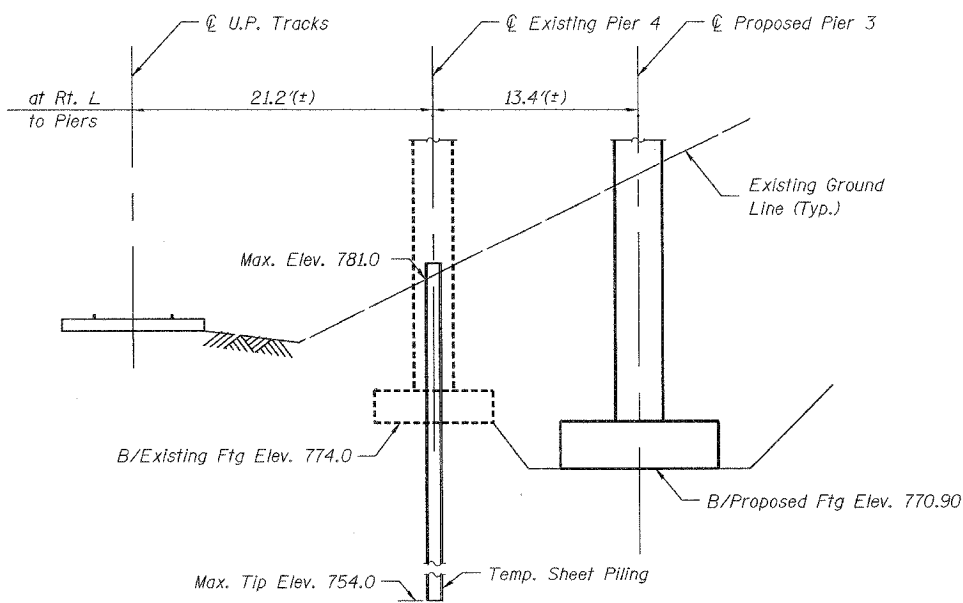
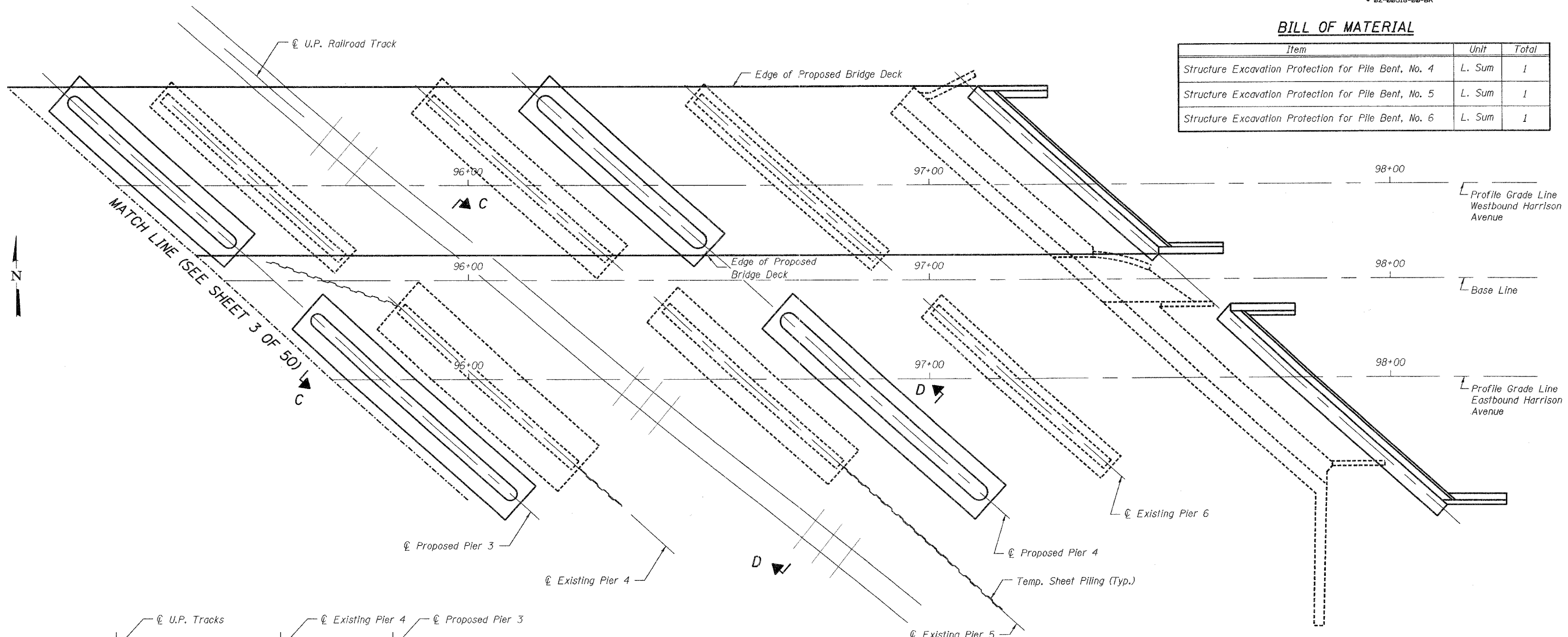
JOB NO.
03R1751

DATE
12/14/06

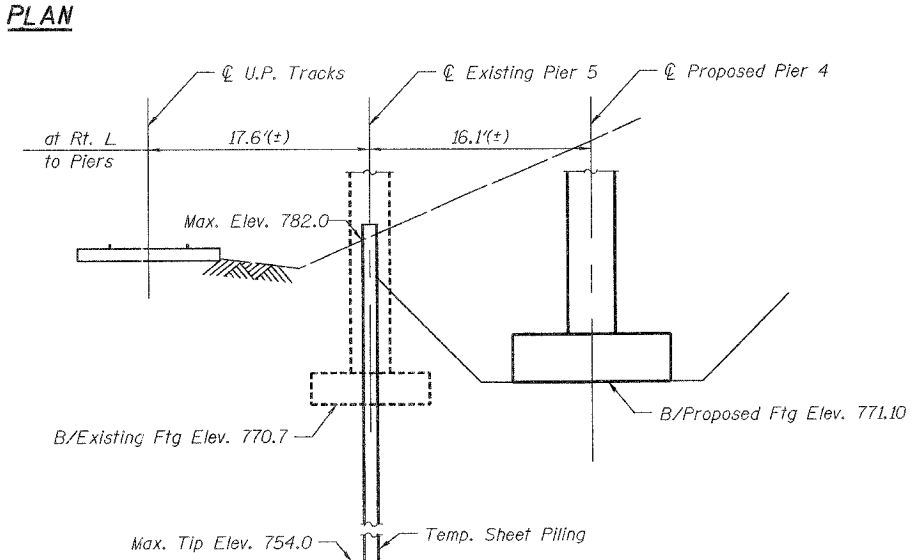
ROUTE NO.	SECTION	COUNTY	LENG	SHEET NO.	SHEET NO. 4
FAP 0525	*	WINNEBAGO	157	61	50 SHEETS
FED. ROAD DIST. NO. 7 D.L. 3058 FED. AID PROJECT					
* 02-00518-00-BR					

BILL OF MATERIAL

Item	Unit	Total
Structure Excavation Protection for Pile Bent, No. 4	L. Sum	1
Structure Excavation Protection for Pile Bent, No. 5	L. Sum	1
Structure Excavation Protection for Pile Bent, No. 6	L. Sum	1



SECTION C-C
(Structure Excavation Protection for Pile Bent, No. 5)



SECTION D-D
(Structure Excavation Protection for Pile Bent, No. 6)

Corporate License Number 184-001-084

PIER EXCAVATION PROTECTION PLAN

EASTBOUND HARRISON AVENUE
OVER UP & CC&P RAILROAD
F.A.P. ROUTE 0525
SECTION 02-00518-00-BR
ROCKFORD, ILLINOIS
STATION 95+72.00
STRUCTURE NO. 101-6111

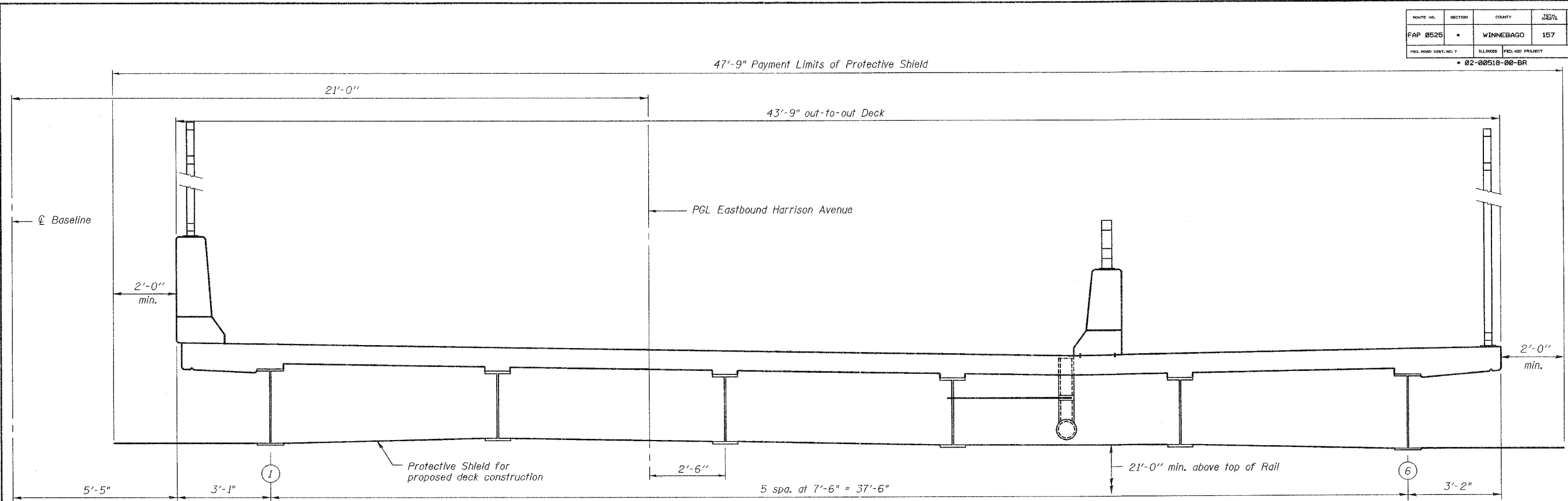
© Copyright Hanson Professional Services Inc. 2006

HANSON

DATE: 12/14/06

3:46:12 PM
 12/14/06 03:48 PM
 I:\03\Jobs\031717\5\Struct\Sheet\East Bound\02-00518-00-BR\PIER EXCAVATION PLAN.dgn
 LAYOUT: 07/17/06
 DRAWN: 07/19/06
 REVIEWED: 10/24/06

ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET	SHEET NO. 5
FAP 0525		WINNEBAGO	157	62	50 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

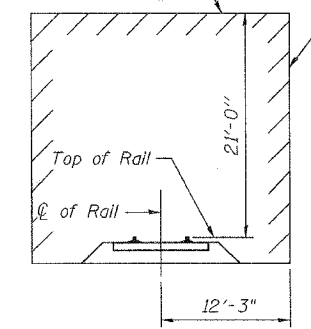


PROPOSED EASTBOUND CROSS SECTION
Looking East

NOTES

The protective shield shall extend perpendicular from the railroad tracks at least 18 feet beyond the centerline of tracks. Maximum pay limit is 18'-0".
 The quantity of Protective Shield represents the quantity for four installations and removals, which are one installation and removal for deck and superstructure removal over UP railroad tracks, one installation and removal for deck and superstructure removal over CC&P railroad tracks, one installation and removal for proposed deck construction over UP railroad tracks, and one installation and removal for proposed deck construction over CC&P railroad tracks. Each installation of Protective Shield shall be measured for payment. Removal of Protective Shield shall not be measured for payment.
 The Protective Shield shall be designed for a live load not less than 200 pounds per square foot.
 If the Contractor intends to use cantilever forming brackets on the exterior beams for the Protective Shield, the beams shall be adequately braced to prevent twisting.

No construction activities or other obstructions may be placed within these limits.



MINIMUM CONSTRUCTION CLEARANCES
(Normal to Railroad)

BILL OF MATERIAL

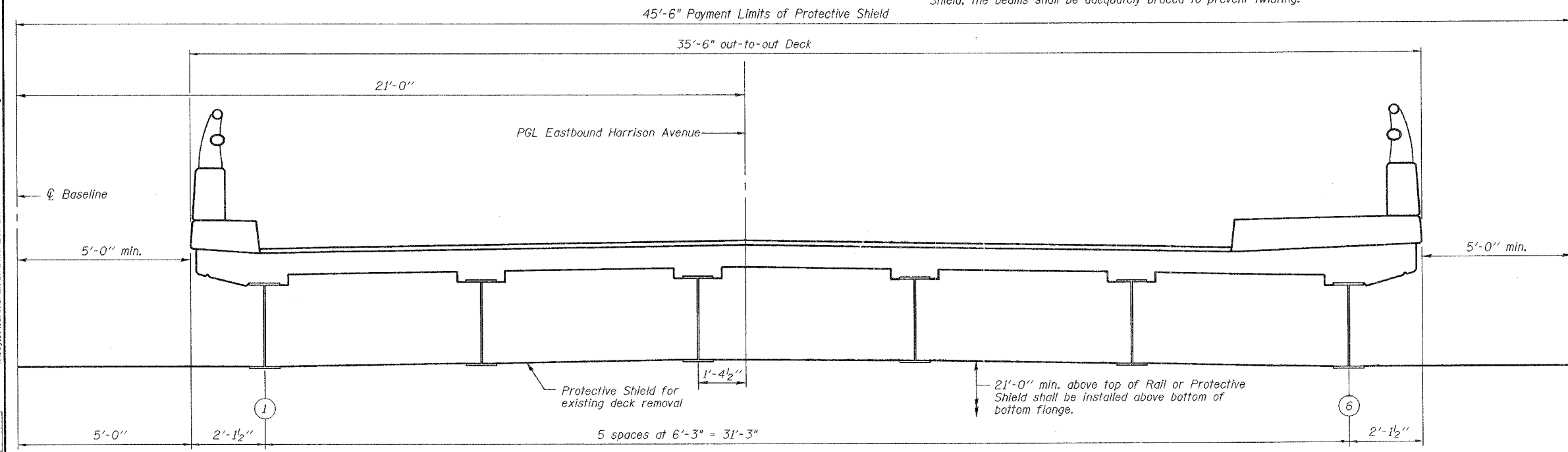
Item	Unit	Total
Protective Shield	Sq. Yd.	1115

Corporate License Number 184-001-084

PROTECTIVE SHIELD

**EASTBOUND HARRISON AVENUE
OVER UP & CC&P RAILROAD
F.A.P. ROUTE 0525
SECTION 02-00518-00-BR
ROCKFORD, ILLINOIS
STATION 95+72.00
STRUCTURE NO. 101-6111**

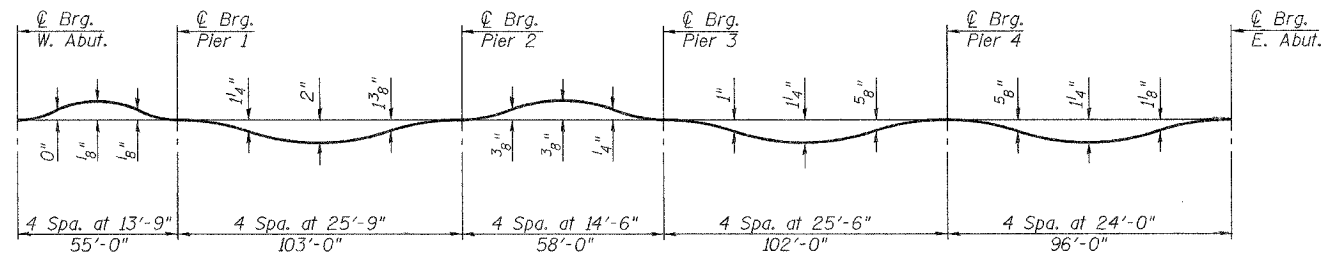
© Copyright Hanson Professional Services Inc. 2006



EXISTING EASTBOUND CROSS SECTION
Looking East

3:46:37 PM
 I:\12\2006\03-48 PM
 I:\03\03\03\15\StruckSheet\Eastbound\005-EB-ProtectShield.dgn
 LAYOUT: JMR 07/11/06
 DRAWN: JMR 07/19/06
 REVIEWED: FLN 08/04/06

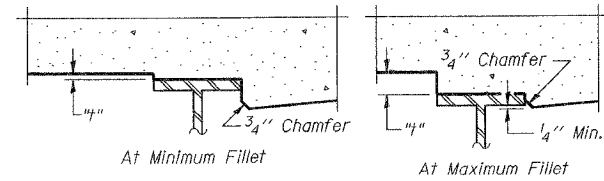
ROUTE NO.	SECTION	COUNTY	SHEET	SHEET	SHEET NO.
FAP 0525		WINNEBAGO	157	63	50 SHEETS
FED. ROAD DEPT. NO. 7					ILLINOIS
FED. AID PROJECT					
02-00518-00-BR					



DEAD LOAD DEFLECTION DIAGRAM

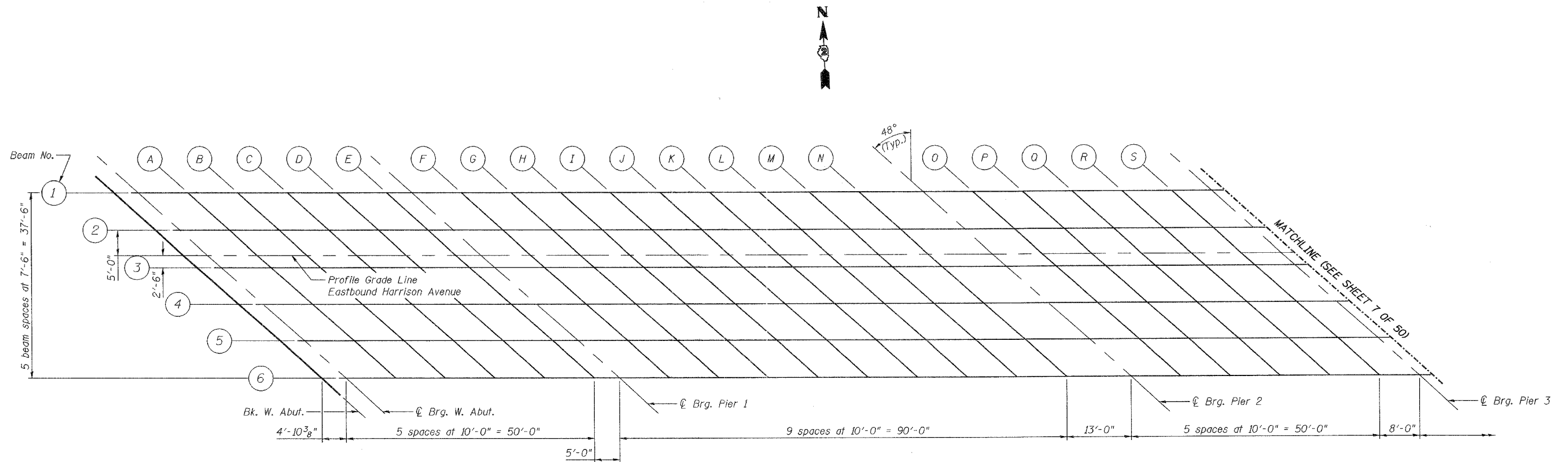
(Includes weight of concrete only.)

Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on Sheets 7 thru 9 of 50.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown on Sheets 7-9 of 50. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on Sheets 7-9 of 50, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS



DIAGRAMMATIC PLAN - TOP OF CONCRETE ELEVATIONS

NOTES:

- All offsets are measured from the profile grade line.
- Negative (-) offsets are offsets to the left of the profile grade line while looking upstation.
- All dimensions are in feet (ft.) except as noted.

Corporate License Number 184-001-084

TOP OF SLAB ELEVATIONS

EASTBOUND HARRISON AVENUE
OVER UP & CC&P RAILROAD
F.A.P. ROUTE 0525
SECTION 02-00518-00-BR
ROCKFORD, ILLINOIS
STATION 95+72.00
STRUCTURE NO. 101-6111

© Copyright Hanson Professional Services Inc. 2006



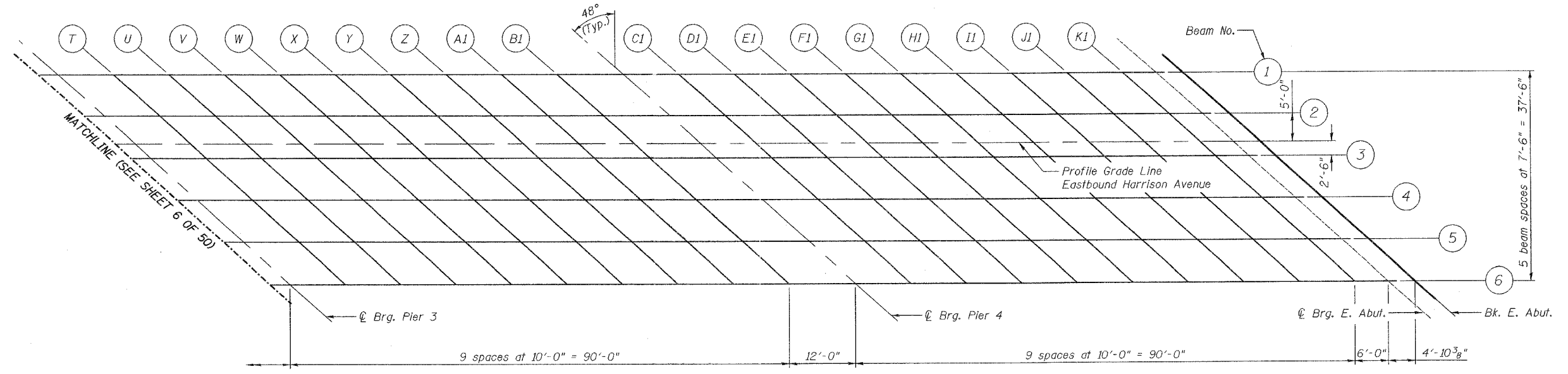
JOB NO. 03R1751

DATE 12/14/06

3:50:23 PM 12/12/2006 03:50 PM PROJ:0203R1751/Struc/Sheet/East Bound/5-006-EB-TOS-Elevation

LAYOUT	09/08/05
DRAWN	09/08/05
REVIEWED	09/04/06

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO.
FAP 0525		WINNEBAGO	157	64
FED. ROAD DIST. VOL. 7				ILLINOIS
FED. ROAD DIST. VOL. 7				ILLINOIS
• 02-00518-00-BR				



DIAGRAMMATIC PLAN - TOP OF CONCRETE ELEVATIONS

PROFILE GRADE LINE OF PROPOSED EASTBOUND HARRISON AVENUE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection	Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	93+60.14	0.000	801.537	801.537	⊙ Brg. Pier 3	95+81.00	0.000	808.807	808.807
⊙ Brg. W. Abut.	93+65.00	0.000	801.782	801.782	T	95+91.00	0.000	808.948	808.988
A	93+75.00	0.000	802.276	802.276	U	96+01.00	0.000	809.073	809.151
B	93+85.00	0.000	802.753	802.744	V	96+11.00	0.000	809.181	809.287
C	93+95.00	0.000	803.213	803.200	W	96+21.00	0.000	809.273	809.391
D	94+05.00	0.000	803.658	803.640	X	96+31.00	0.000	809.348	809.479
E	94+15.00	0.000	804.086	804.079	Y	96+41.00	0.000	809.407	809.514
⊙ Brg. Pier 1	94+20.00	0.000	804.294	804.294	Z	96+51.00	0.000	809.450	809.528
F	94+30.00	0.000	804.697	804.745	AI	96+61.00	0.000	809.477	809.528
G	94+40.00	0.000	805.085	805.181	BI	96+71.00	0.000	809.487	809.515
H	94+50.00	0.000	805.456	805.592	⊙ Brg. Pier 4	96+83.00	0.000	809.478	809.478
I	94+60.00	0.000	805.810	805.977	CI	96+93.00	0.000	809.452	809.477
J	94+70.00	0.000	806.149	806.346	DI	97+03.00	0.000	809.410	809.460
K	94+80.00	0.000	806.471	806.650	EI	97+13.00	0.000	809.351	809.429
L	94+90.00	0.000	806.776	806.930	F1	97+23.00	0.000	809.277	809.385
M	95+00.00	0.000	807.066	807.186	G1	97+33.00	0.000	809.186	809.316
N	95+10.00	0.000	807.339	807.407	HI	97+43.00	0.000	809.078	809.201
⊙ Brg. Pier 2	95+23.00	0.000	807.669	807.669	II	97+53.00	0.000	808.955	809.069
O	95+33.00	0.000	807.904	807.883	JI	97+63.00	0.000	808.815	808.890
P	95+43.00	0.000	808.124	808.090	KI	97+73.00	0.000	808.658	808.687
Q	95+53.00	0.000	808.326	808.291	⊙ Brg. E. Abut.	97+79.00	0.000	808.557	808.557
R	95+63.00	0.000	808.513	808.483	Bk. E. Abut.	97+83.86	0.000	808.470	808.470
S	95+73.00	0.000	808.683	808.668					

NOTES:

All offsets are measured from the profile grade line.

Negative (-) offsets are offsets to the left of the profile grade line while looking upstation.

All dimensions are in feet (ft.) except as noted.

Corporate License Number 184-001-084

TOP OF SLAB ELEVATIONS

EASTBOUND HARRISON AVENUE
OVER UP & CC&P RAILROAD
F.A.P. ROUTE 0525
SECTION 02-00518-00-BR
ROCKFORD, ILLINOIS
STATION 95+72.00
STRUCTURE NO. 101-6111

© Copyright Hanson Professional Services Inc. 2006



03R1751

DATE 12/14/06

3:50:46 PM
 12/12/2006 03:50 PM
 A:\03\06\03R1751\Struct\Sheet\East\Brdm\5-001-EB-TOS-Elm.dgn

LAYOUT	09/08/05
DRAWN	MGM
REVIEWED	FLN

Beam 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	93+46.26	-12.500	801.009	801.009
⊕ Brg. W. Abut.	93+51.12	-12.500	801.266	801.266
A	93+61.12	-12.500	801.782	801.778
B	93+71.12	-12.500	802.281	802.274
C	93+81.12	-12.500	802.765	802.752
D	93+91.12	-12.500	803.232	803.215
E	94+01.12	-12.500	803.682	803.676
⊕ Brg. Pier 1	94+06.12	-12.500	803.902	803.902
F	94+16.12	-12.500	804.328	804.373
G	94+26.12	-12.500	804.738	804.827
H	94+36.12	-12.500	805.132	805.259
I	94+46.12	-12.500	805.509	805.664
J	94+56.12	-12.500	805.870	806.054
K	94+66.12	-12.500	806.214	806.382
L	94+76.12	-12.500	806.543	806.686
M	94+86.12	-12.500	806.855	806.967
N	94+96.12	-12.500	807.150	807.214
⊕ Brg. Pier 2	95+09.12	-12.500	807.510	807.510
O	95+19.12	-12.500	807.769	807.748
P	95+29.12	-12.500	808.010	807.979
Q	95+39.12	-12.500	808.236	808.203
R	95+49.12	-12.500	808.445	808.417
S	95+59.12	-12.500	808.638	808.623
⊕ Brg. Pier 3	95+67.12	-12.500	808.780	808.780
T	95+77.12	-12.500	808.944	808.980
U	95+87.12	-12.500	809.091	809.164
V	95+97.12	-12.500	809.222	809.320
W	96+07.12	-12.500	809.336	809.446
X	96+17.12	-12.500	809.434	809.556
Y	96+27.12	-12.500	809.516	809.615
Z	96+37.12	-12.500	809.582	809.655
A1	96+47.12	-12.500	809.631	809.679
B1	96+57.12	-12.500	809.664	809.690
⊕ Brg. Pier 4	96+69.12	-12.500	809.681	809.681
C1	96+79.12	-12.500	809.678	809.702
D1	96+89.12	-12.500	809.659	809.706
E1	96+99.12	-12.500	809.623	809.696
F1	97+09.12	-12.500	809.571	809.672
G1	97+19.12	-12.500	809.503	809.625
H1	97+29.12	-12.500	809.418	809.533
I1	97+39.12	-12.500	809.317	809.424
J1	97+49.12	-12.500	809.200	809.270
K1	97+59.12	-12.500	809.066	809.093
⊕ Brg. E. Abut.	97+65.12	-12.500	808.978	808.978
Bk. E. Abut.	97+69.98	-12.500	808.903	808.903

Beam 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	93+54.59	-5.000	801.329	801.329
⊕ Brg. W. Abut.	93+59.45	-5.000	801.579	801.579
A	93+69.45	-5.000	802.082	802.078
B	93+79.45	-5.000	802.568	802.560
C	93+89.45	-5.000	803.038	803.024
D	93+99.45	-5.000	803.491	803.474
E	94+09.45	-5.000	803.928	803.922
⊕ Brg. Pier 1	94+14.45	-5.000	804.141	804.141
F	94+24.45	-5.000	804.553	804.601
G	94+34.45	-5.000	804.950	805.046
H	94+44.45	-5.000	805.330	805.466
I	94+54.45	-5.000	805.693	805.860
J	94+64.45	-5.000	806.041	806.238
K	94+74.45	-5.000	806.372	806.551
L	94+84.45	-5.000	806.687	806.840
M	94+94.45	-5.000	806.985	807.106
N	95+04.45	-5.000	807.267	807.335
⊕ Brg. Pier 2	95+17.45	-5.000	807.609	807.609
O	95+27.45	-5.000	807.854	807.832
P	95+37.45	-5.000	808.082	808.049
Q	95+47.45	-5.000	808.294	808.258
R	95+57.45	-5.000	808.490	808.460
S	95+67.45	-5.000	808.669	808.653
⊕ Brg. Pier 3	95+75.45	-5.000	808.800	808.800
T	95+85.45	-5.000	808.950	808.989
U	95+95.45	-5.000	809.084	809.162
V	96+05.45	-5.000	809.201	809.307
W	96+15.45	-5.000	809.302	809.420
X	96+25.45	-5.000	809.386	809.517
Y	96+35.45	-5.000	809.455	809.561
Z	96+45.45	-5.000	809.507	809.585
A1	96+55.45	-5.000	809.542	809.594
B1	96+65.45	-5.000	809.561	809.589
⊕ Brg. Pier 4	96+77.45	-5.000	809.563	809.563
C1	96+87.45	-5.000	809.546	809.571
D1	96+97.45	-5.000	809.513	809.563
E1	97+07.45	-5.000	809.464	809.542
F1	97+17.45	-5.000	809.398	809.506
G1	97+27.45	-5.000	809.316	809.447
H1	97+37.45	-5.000	809.218	809.341
I1	97+47.45	-5.000	809.103	809.218
J1	97+57.45	-5.000	808.973	809.048
K1	97+67.45	-5.000	808.825	808.854
⊕ Brg. E. Abut.	97+73.45	-5.000	808.729	808.729
Bk. E. Abut.	97+78.31	-5.000	808.647	808.647

Beam 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	93+62.92	2.500	801.625	801.625
⊕ Brg. W. Abut.	93+67.78	2.500	801.869	801.869
A	93+77.78	2.500	802.358	802.354
B	93+87.78	2.500	802.830	802.822
C	93+97.78	2.500	803.286	803.273
D	94+07.78	2.500	803.726	803.709
E	94+17.78	2.500	804.150	804.143
⊕ Brg. Pier 1	94+22.78	2.500	804.355	804.355
F	94+32.78	2.500	804.754	804.802
G	94+42.78	2.500	805.137	805.233
H	94+52.78	2.500	805.504	805.640
I	94+62.78	2.500	805.854	806.020
J	94+72.78	2.500	806.188	806.384
K	94+82.78	2.500	806.505	806.685
L	94+92.78	2.500	806.806	806.960
M	95+02.78	2.500	807.091	807.212
N	95+12.78	2.500	807.359	807.428
⊕ Brg. Pier 2	95+25.78	2.500	807.684	807.684
O	95+35.78	2.500	807.915	807.893
P	95+45.78	2.500	808.129	808.096
Q	95+55.78	2.500	808.328	808.292
R	95+65.78	2.500	808.510	808.480
S	95+75.78	2.500	808.675	808.660
⊕ Brg. Pier 3	95+83.78	2.500	808.796	808.796
T	95+93.78	2.500	808.932	808.972
U	96+03.78	2.500	809.052	809.131
V	96+13.78	2.500	809.156	809.262
W	96+23.78	2.500	809.243	809.361
X	96+33.78	2.500	809.314	809.445
Y	96+43.78	2.500	809.369	809.475
Z	96+53.78	2.500	809.407	809.485
A1	96+63.78	2.500	809.429	809.481
B1	96+73.78	2.500	809.435	809.463
⊕ Brg. Pier 4	96+85.78	2.500	809.420	809.420
C1	96+95.78	2.500	809.390	809.415
D1	97+05.78	2.500	809.343	809.393
E1	97+15.78	2.500	809.280	809.358
F1	97+25.78	2.500	809.201	809.309
G1	97+35.78	2.500	809.105	809.236
H1	97+45.78	2.500	808.994	809.116
I1	97+55.78	2.500	808.865	808.980
J1	97+65.78	2.500	808.721	808.796
K1	97+75.78	2.500	808.560	808.588
⊕ Brg. E. Abut.	97+81.78	2.500	808.456	808.456
Bk. E. Abut.	97+86.64	2.500	808.367	808.367

Corporate License Number 184-001-084

TOP OF SLAB ELEVATION TABLES

EASTBOUND HARRISON AVENUE
OVER UP & CC&P RAILROAD
F.A.P. ROUTE 0525
SECTION 02-00518-00-BR
ROCKFORD, ILLINOIS
STATION 95+72.00
STRUCTURE NO. 101-6111

© Copyright Hanson Professional Services Inc. 2006



JOB NO. 03R1751

DATE 12/14/06

3:51:08 PM
 12/12/2006 03:51 PM
 I:\03\00518\02\00518-00-BR\Sheet\Beam3-East\EB-T05-with.dgn

LAYOUT	09/08/05
DRAWN	12/14/05
REVIEWED	09/04/06

ROUTE NO.	DISTRICT	COUNTY	SECTION	SHEET	SHEET NO.
FAP 0525	•	WINNEBAGO	157	66	9
FED. ROAD DIST. NO. 7	ILL. ROAD	FED. AID PROJECT			
• 02-00518-00-BR					

Beam 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	93+71.25	10.000	801.884	801.884
☉ Brg. W. Abut.	93+76.11	10.000	802.121	802.121
A	93+86.11	10.000	802.596	802.593
B	93+96.11	10.000	803.055	803.047
C	94+06.11	10.000	803.498	803.484
D	94+16.11	10.000	803.924	803.906
E	94+26.11	10.000	804.334	804.327
☉ Brg. Pier 1	94+31.11	10.000	804.533	804.533
F	94+41.11	10.000	804.918	804.966
G	94+51.11	10.000	805.287	805.383
H	94+61.11	10.000	805.640	805.776
I	94+71.11	10.000	805.977	806.143
J	94+81.11	10.000	806.297	806.494
K	94+91.11	10.000	806.601	806.780
L	95+01.11	10.000	806.888	807.042
M	95+11.11	10.000	807.159	807.280
N	95+21.11	10.000	807.414	807.482
☉ Brg. Pier 2	95+34.11	10.000	807.721	807.721
O	95+44.11	10.000	807.939	807.917
P	95+54.11	10.000	808.140	808.106
Q	95+64.11	10.000	808.324	808.289
R	95+74.11	10.000	808.493	808.463
S	95+84.11	10.000	808.645	808.629
☉ Brg. Pier 3	95+92.11	10.000	808.754	808.754
T	96+02.11	10.000	808.877	808.916
U	96+12.11	10.000	808.983	809.062
V	96+22.11	10.000	809.073	809.179
W	96+32.11	10.000	809.147	809.265
X	96+42.11	10.000	809.205	809.335
Y	96+52.11	10.000	809.246	809.352
Z	96+62.11	10.000	809.270	809.348
AI	96+72.11	10.000	809.279	809.330
BI	96+82.11	10.000	809.271	809.299
☉ Brg. Pier 4	96+94.11	10.000	809.240	809.240
CI	97+04.11	10.000	809.196	809.221
DI	97+14.11	10.000	809.136	809.185
E1	97+24.11	10.000	809.059	809.137
F1	97+34.11	10.000	808.966	809.074
G1	97+44.11	10.000	808.857	808.987
H1	97+54.11	10.000	808.732	808.854
I1	97+64.11	10.000	808.590	808.705
J1	97+74.11	10.000	808.432	808.507
K1	97+84.11	10.000	808.257	808.286
☉ Brg. E. Abut.	97+90.11	10.000	808.145	808.145
Bk. E. Abut.	97+94.97	10.000	808.049	808.049

Beam 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	93+79.58	17.500	802.277	802.277
☉ Brg. W. Abut.	93+84.44	17.500	802.507	802.507
A	93+94.44	17.500	802.969	802.966
B	94+04.44	17.500	803.414	803.406
C	94+14.44	17.500	803.843	803.830
D	94+24.44	17.500	804.256	804.239
E	94+34.44	17.500	804.652	804.646
☉ Brg. Pier 1	94+39.44	17.500	804.845	804.845
F	94+49.44	17.500	805.216	805.264
G	94+59.44	17.500	805.572	805.668
H	94+69.44	17.500	805.911	806.047
I	94+79.44	17.500	806.234	806.401
J	94+89.44	17.500	806.541	806.738
K	94+99.44	17.500	806.831	807.010
L	95+09.44	17.500	807.105	807.259
M	95+19.44	17.500	807.362	807.483
N	95+29.44	17.500	807.604	807.672
☉ Brg. Pier 2	95+42.44	17.500	807.893	807.893
O	95+52.44	17.500	808.097	808.075
P	95+62.44	17.500	808.284	808.251
Q	95+72.44	17.500	808.455	808.420
R	95+82.44	17.500	808.610	808.580
S	95+92.44	17.500	808.748	808.733
☉ Brg. Pier 3	96+00.44	17.500	808.847	808.847
T	96+10.44	17.500	808.956	808.996
U	96+20.44	17.500	809.049	809.128
V	96+30.44	17.500	809.126	809.231
W	96+40.44	17.500	809.186	809.304
X	96+50.44	17.500	809.229	809.360
Y	96+60.44	17.500	809.257	809.363
Z	96+70.44	17.500	809.268	809.346
AI	96+80.44	17.500	809.263	809.314
BI	96+90.44	17.500	809.241	809.269
☉ Brg. Pier 4	97+02.44	17.500	809.194	809.194
CI	97+12.44	17.500	809.136	809.161
DI	97+22.44	17.500	809.063	809.112
E1	97+32.44	17.500	808.973	809.050
F1	97+42.44	17.500	808.866	808.974
G1	97+52.44	17.500	808.743	808.874
H1	97+62.44	17.500	808.604	808.727
I1	97+72.44	17.500	808.449	808.564
J1	97+82.44	17.500	808.277	808.353
K1	97+92.44	17.500	808.089	808.117
☉ Brg. E. Abut.	97+98.44	17.500	807.968	807.968
Bk. E. Abut.	98+03.30	17.500	807.866	807.866

Beam 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	93+87.91	25.000	802.826	802.826
☉ Brg. W. Abut.	93+92.77	25.000	803.049	803.049
A	94+02.77	25.000	803.497	803.494
B	94+12.77	25.000	803.929	803.921
C	94+22.77	25.000	804.345	804.332
D	94+32.77	25.000	804.744	804.727
E	94+42.77	25.000	805.126	805.120
☉ Brg. Pier 1	94+47.77	25.000	805.312	805.312
F	94+57.77	25.000	805.670	805.715
G	94+67.77	25.000	806.012	806.101
H	94+77.77	25.000	806.337	806.465
I	94+87.77	25.000	806.647	806.802
J	94+97.77	25.000	806.940	807.123
K	95+07.77	25.000	807.216	807.384
L	95+17.77	25.000	807.477	807.620
M	95+27.77	25.000	807.721	807.833
N	95+37.77	25.000	807.948	808.012
☉ Brg. Pier 2	95+50.77	25.000	808.220	808.220
O	95+60.77	25.000	808.410	808.390
P	95+70.77	25.000	808.584	808.553
Q	95+80.77	25.000	808.741	808.708
R	95+90.77	25.000	808.883	808.855
S	96+00.77	25.000	809.007	808.993
☉ Brg. Pier 3	96+08.77	25.000	809.096	809.096
T	96+18.77	25.000	809.191	809.228
U	96+28.77	25.000	809.270	809.343
V	96+38.77	25.000	809.333	809.432
W	96+48.77	25.000	809.379	809.490
X	96+58.77	25.000	809.410	809.531
Y	96+68.77	25.000	809.423	809.523
Z	96+78.77	25.000	809.421	809.494
AI	96+88.77	25.000	809.402	809.450
BI	96+98.77	25.000	809.367	809.393
☉ Brg. Pier 4	97+10.77	25.000	809.303	809.303
CI	97+20.77	25.000	809.232	809.256
DI	97+30.77	25.000	809.145	809.191
E1	97+40.77	25.000	809.041	809.114
F1	97+50.77	25.000	808.921	809.022
G1	97+60.77	25.000	808.785	808.906
H1	97+70.77	25.000	808.632	808.747
I1	97+80.77	25.000	808.463	808.570
J1	97+90.77	25.000	808.278	808.348
K1	98+00.77	25.000	808.076	808.103
☉ Brg. E. Abut.	98+06.77	25.000	807.947	807.947
Bk. E. Abut.	98+11.63	25.000	807.839	807.839

Corporate License Number 184-001-084

TOP OF SLAB ELEVATION TABLES

**EASTBOUND HARRISON AVENUE
OVER UP & CC&P RAILROAD
F.A.P. ROUTE 0525
SECTION 02-00518-00-BR
ROCKFORD, ILLINOIS
STATION 95+72.00
STRUCTURE NO. 101-6111**

© Copyright Hanson Professional Services Inc. 2006



JOB NO.

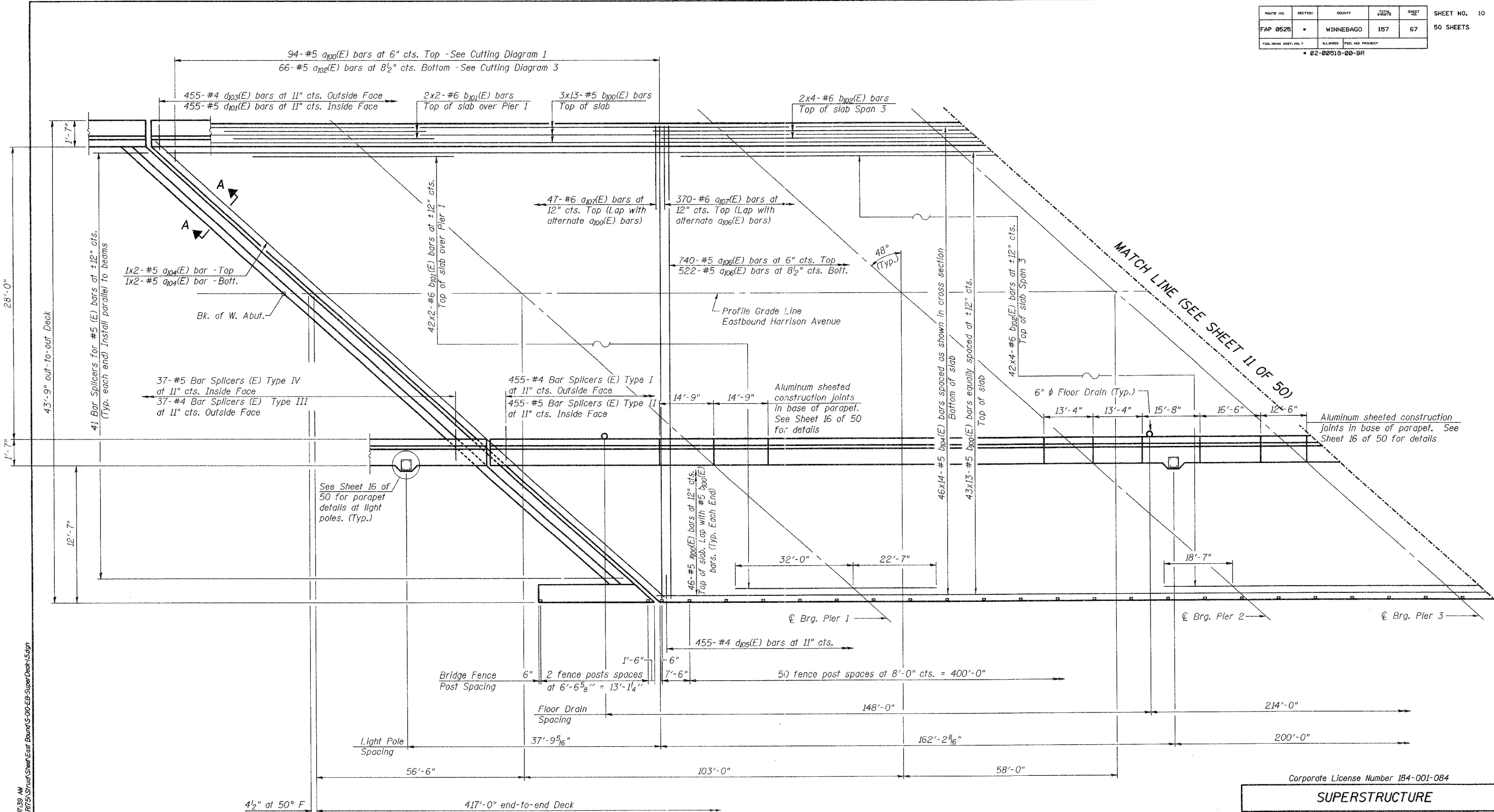
03R1751

DATE

12/14/06

3:51:38 PM 09/08/05
 12/12/2006 03:51 PM 12/14/05
 In:\03\Jobs\03R1751\Struct\Sheet\East\Beam\5-009-EB-TOS-elev.dgn
 LAYOUT: 09/08/05
 DRAWN: MMG 12/14/05
 REVIEWED: FLN 09/04/05

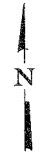
ROUTE NO.	SECTION	COUNTY	SHEET	SET	SHEET NO.
FAP 0525	*	WINNEBAGO	157	67	10
FED. ROAD DIST. NO. 7					ILL. ROAD PROJECT
• 02-00518-00-BR					



MIN. BAR LAP

- #5 - 2'-2"
- #6 - 2'-7"

PLAN



NOTES

Work this sheet with Sheets 11 thru 16 of 50.
 For Section A-A see Sheet 12 of 50.
 Reinforcement bars designated (E) shall be epoxy coated.
 Bar indicated thus 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
 For details of Pedestrian Fence see Sheet 20 of 50.
 For details and post spacing of Parapet Fence see Sheets 13 & 19 of 50.
 For details and post spacing of Parapet Rail see Sheet 14 & 18 of 50.
 For Superstructure Bill of Material see Sheet 16 of 50.

Corporate License Number 184-001-084

SUPERSTRUCTURE

**EASTBOUND HARRISON AVENUE
 OVER UP & CC&P RAILROAD
 F.A.P. ROUTE 0525
 SECTION 02-00518-00-BR
 ROCKFORD, ILLINOIS
 STATION 95+72.00
 STRUCTURE NO. 101-6111**

© Copyright Hanson Professional Services Inc. 2006

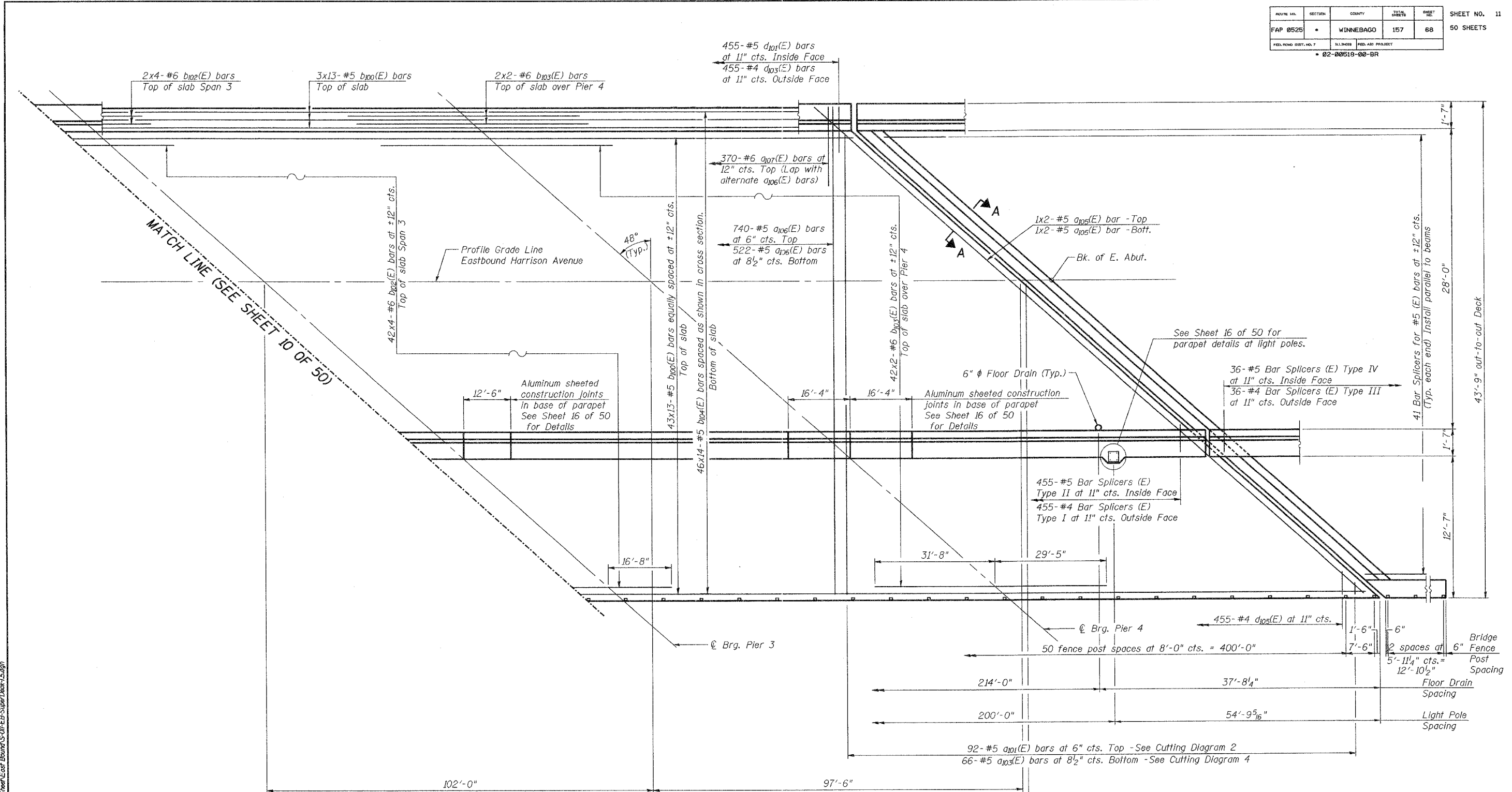


JOB NO.
03R1751
DATE
12/14/06

7:39:32 AM 10/27/06
 1/20/06 07:39 AM
 I:\03\08053775\Struct\Sheet\East Bound\02-00518-00-SuperDeck-15.dgn

LAYOUT	MR	10/27/06
DRAWN	MEL	10/27/06
REVIEWED	ELN	10/27/06

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAP 0525		WINNEBAGO	157	68
SHEET NO. 11				
50 SHEETS				
PROJECT NO. 02-00518-00-BR				



MIN. BAR LAP
 #5 - 2'-2"
 #6 - 2'-7"

PLAN

NOTES

Work this sheet with Sheet 10 and Sheets 13 thru 16 of 50.
 For Section A-A see Sheet 12 of 50.
 Reinforcement bars designated (E) shall be epoxy coated.
 Bar indicated thus 20x3-#5 etc. Indicates 20 lines of bars with 3 lengths per line.
 For details of Pedestrian Fence see Sheet 20 of 50.
 For details and post spacing of Parapet Fence see Sheets 13 & 19 of 50.
 For details and post spacing of Parapet Rail see Sheets 14 & 18 of 50.
 For Superstructure Bill of Material see Sheet 16 of 50.

Corporate License Number 184-001-084

SUPERSTRUCTURE

**EASTBOUND HARRISON AVENUE
 OVER UP & CC&P RAILROAD
 F.A.P. ROUTE 0525
 SECTION 02-00518-00-BR
 ROCKFORD, ILLINOIS
 STATION 95+72.00
 STRUCTURE NO. 101-6111**

© Copyright Hanson Professional Services Inc. 2006



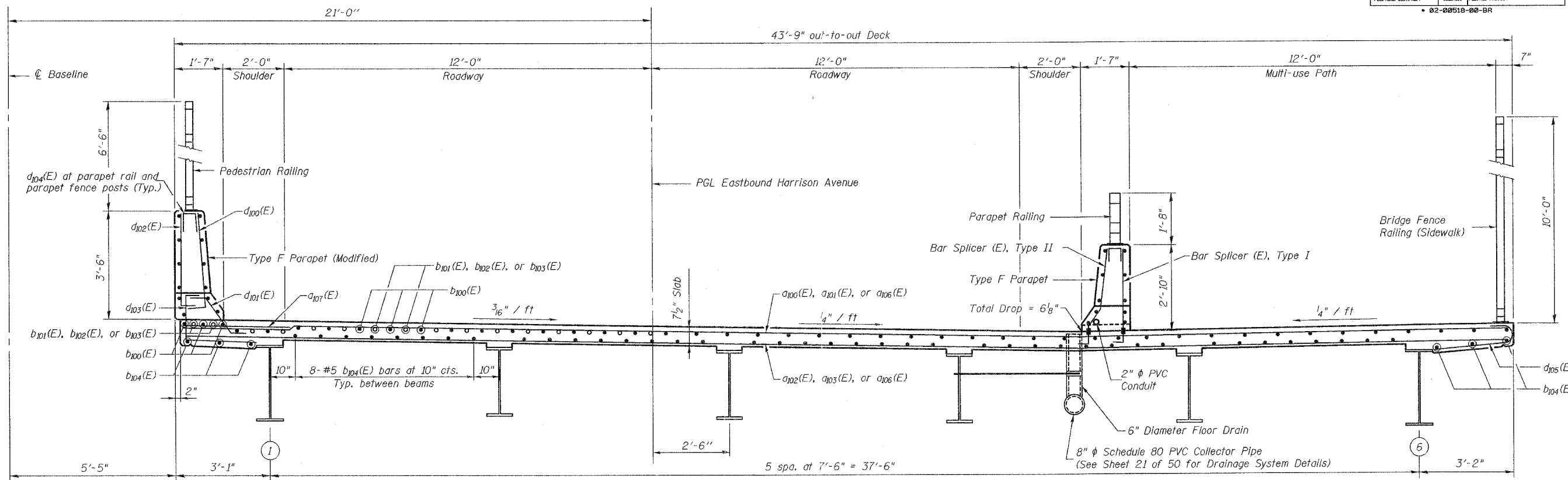
JOB NO. 03R1751
 DATE 12/14/06

7:45:05 AM
 12/14/06 07:45 AM
 I:\03\00518-00-BR\Struct\Sheet\East Bound S-01-EB-SuperDeck-1.dwg

LAYOUT	MR	2/1/06
DRAWN	MBW/KR	7/20/05
REVIEWED		

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
FAP 0525	*	WINNEBAGO	157	69
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
* 02-00518-00-BR				

SHEET NO. 12
50 SHEETS

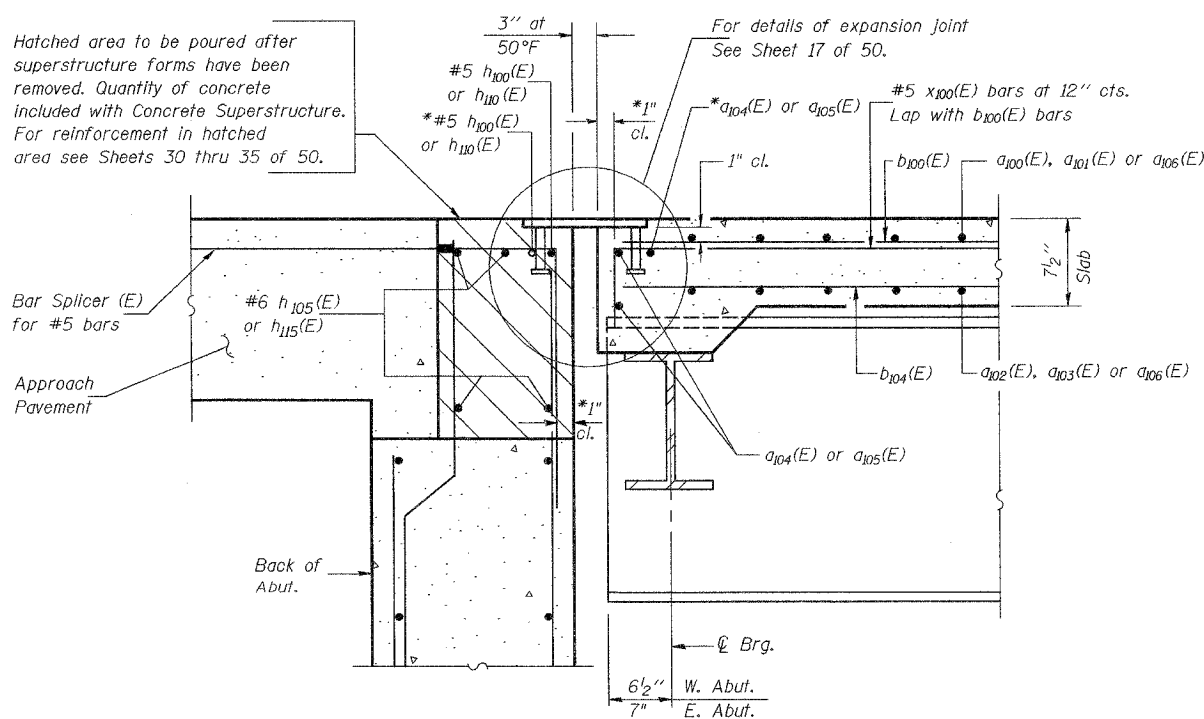


NEAR PIER

NEAR MIDSPAN

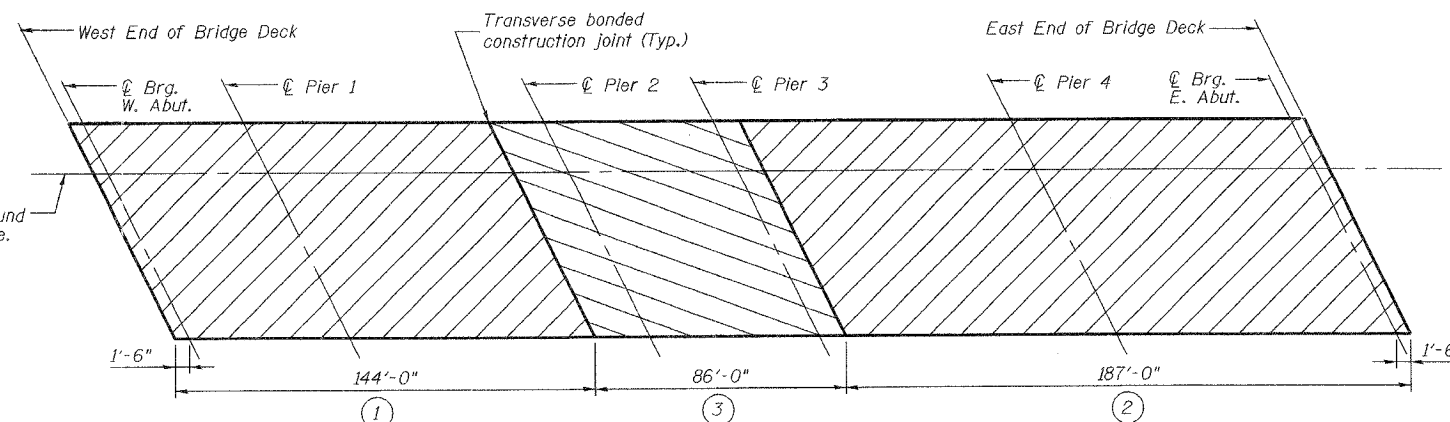
EASTBOUND CROSS SECTION

Looking East



SECTION A-A

* Place $a_{104}(E)$ or $a_{105}(E)$ and $h_{100}(E)$ or $h_{110}(E)$ bars in back of anchor bolts as shown if required to maintain 1" cl. ($\pm 1/8"$). Anchor bolts should be tied to $a_{104}(E)$ or $a_{105}(E)$ and $h_{100}(E)$ or $h_{110}(E)$ bars.



DECK POURING SEQUENCE

NOTES

- The concrete deck slab segments shall be poured in numerical order as shown above.
- When the deck pour is stopped for the day at one or more of the Transverse Bonded Construction Joints in the deck pouring sequence as shown, the next pour shall not be made until both of the following requirements are met:
 - At least 72 hours shall have elapsed from the end of the previous pour.
 - The concrete strength shall have attained a minimum modulus of rupture of 650 psi or a minimum compressive strength of 3500 psi.
- Reinforcement bars designed (E) shall be epoxy coated.
- See Sheets 13 and 14 of 50 for parapet reinforcement.
- Work this Sheet with Sheets 10, 11 and 13 thru 16 of 50.
- For Superstructure Bill of Material, see Sheet 16 of 50.
- The sidewalk and the path surfaces of the bridge shall be finished according to Article 503.16(b)(1) of the Standard Specifications. Cost included in Concrete Superstructure.

Corporate License Number 184-001-084

SUPERSTRUCTURE DETAILS

**EASTBOUND HARRISON AVENUE
OVER UP & CC&P RAILROAD
F.A.P. ROUTE 0525
SECTION 02-00518-00-BR
ROCKFORD, ILLINOIS
STATION 95+72.00
STRUCTURE NO. 101-6111**

© Copyright Hanson Professional Services Inc. 2006



DWG NO.

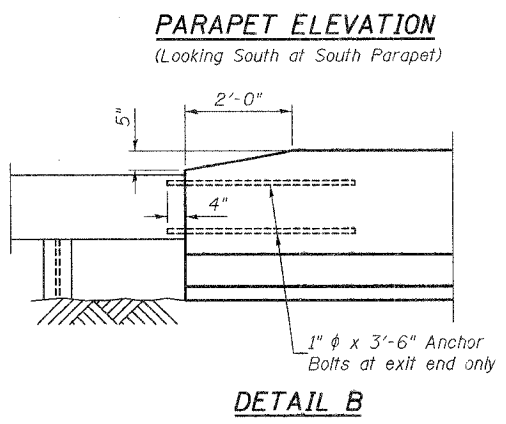
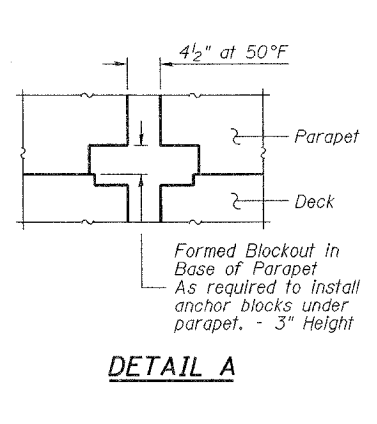
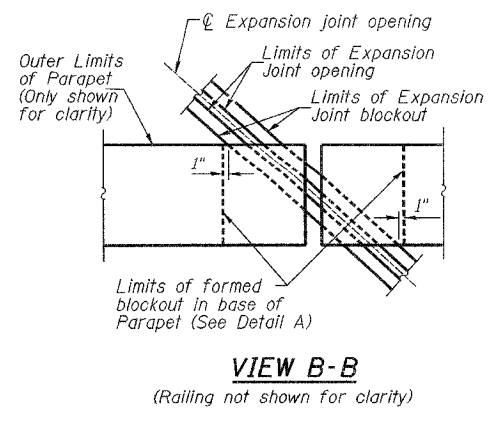
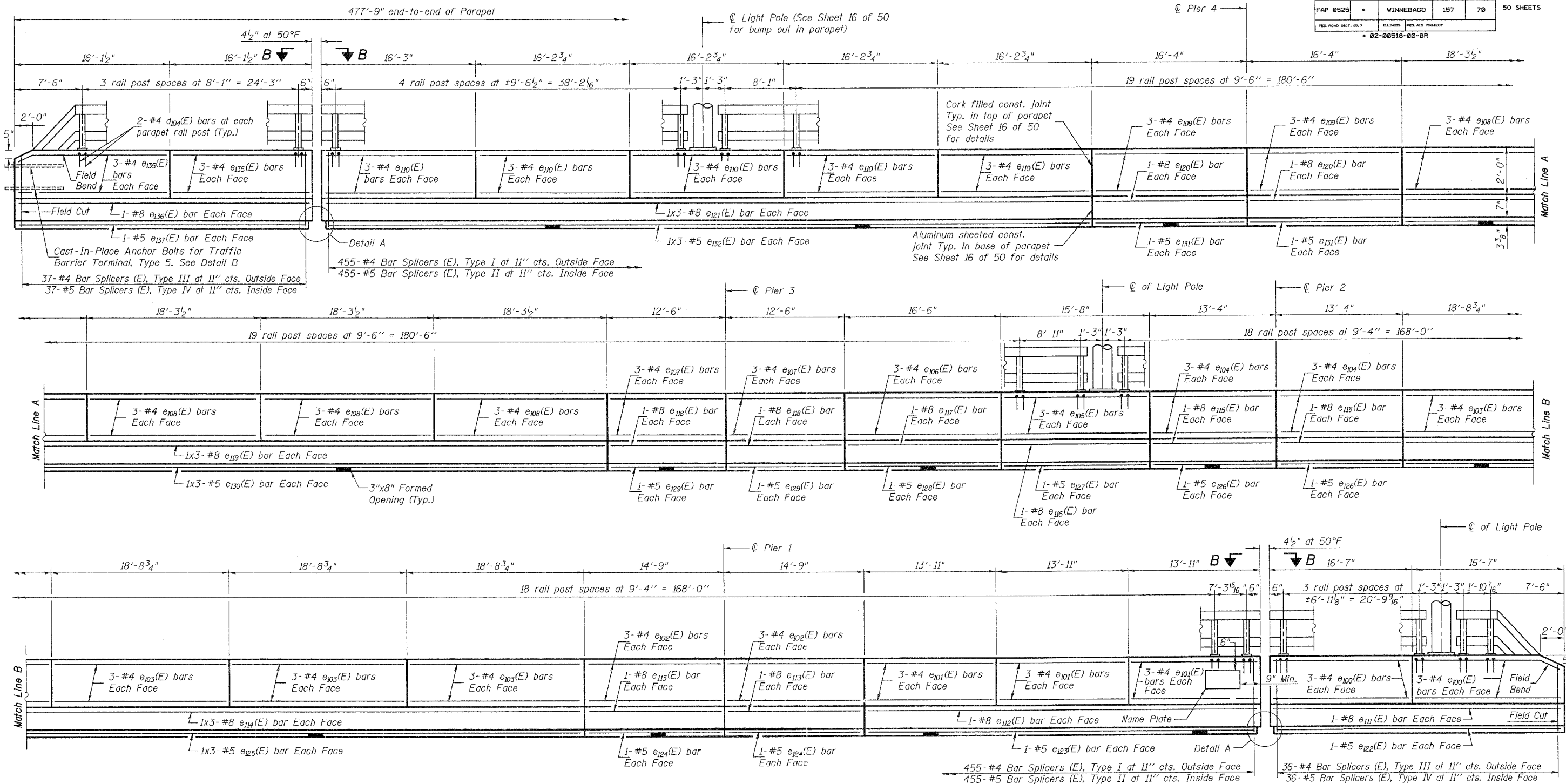
03R1751

DATE

12/14/06

10:59:46 AM
 12/14/06 10:59 AM
 R:\03\0503\F1751\StruShed\East Bound\5-02 EB-Super Design
 LAYOUT: JMF 02/01/06
 DRAWN: MDM/JAR 07/20/06
 REVIEWED: FLN 09/04/06

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET	SHEET NO.
FAP 0525		WINNEBAGO	157	70	50 SHEETS
ILLINOIS HIGHWAY PROJECT					
02-00518-00-BR					



PARAPET ELEVATION
(Looking South at South Parapet)

MINIMUM PARAPET BAR LAP

#5 - 1'-8"

#8 - 3'-8"

NOTES

See Sheet 18 of 50 for Parapet Rail details.
Work this Sheet with Sheets 10 thru 13 and 15 thru 16 of 30.
Bar indicated thus 2x4-#5 etc. indicates 2 lines of bars with 4 lengths per line.
Reinforcement bars designated (E) shall be epoxy coated.
For Superstructure Bill of Material, see Sheet 16 of 50.
See Sheet 16 of 50 for Parapet Joint detail.
Cast-in-place anchor bolts for Traffic Barrier Terminal, Type 5 shall be furnished and installed in accordance with Standard 631026.
Cost included with Concrete Superstructure.

Corporate License Number 184-001-084

SUPERSTRUCTURE DETAILS

EASTBOUND HARRISON AVENUE OVER UP & CC&P RAILROAD

F.A.P. ROUTE 0525

SECTION 02-00518-00-BR

ROCKFORD, ILLINOIS

STATION 95+72.00

STRUCTURE NO. 101-6111

© Copyright Hanson Professional Services Inc. 2006

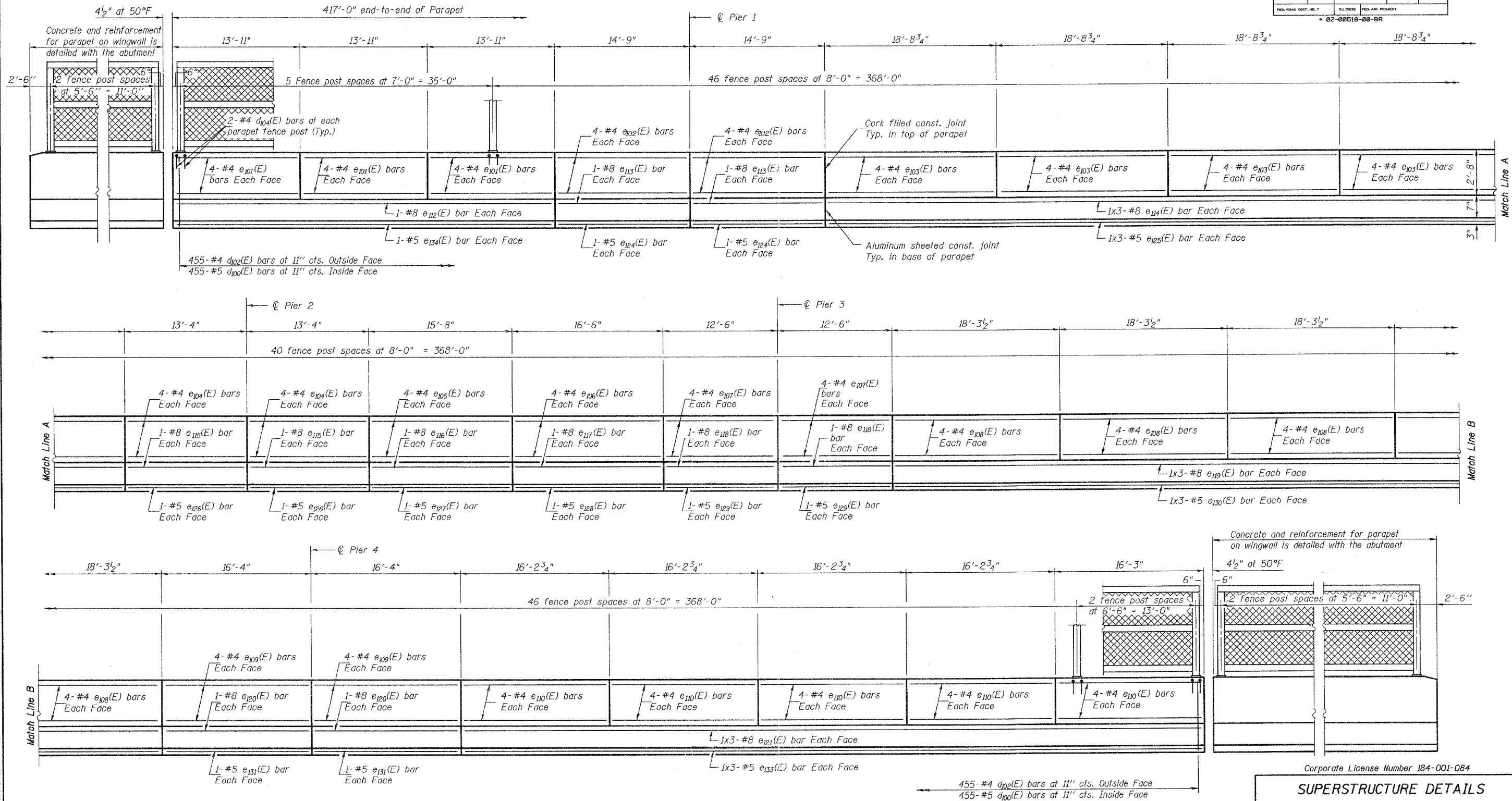
HANSON

03R1751

12/14/06

12/15/06 JNR 02/01/06
 12/15/06 JNR 07/20/06
 12/15/06 JNR 08/04/06
 12/15/06 JNR 08/04/06
 12/15/06 JNR 08/04/06

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
FAP 0525		WINNEBAGO	157	71	50 SHEETS
FED. ROAD DIST. NO. 7					
ILL. DIST. NO. 02-00518-00-BR					



3:52:48 PM
 12/12/2006 03:52 PM
 h:\03\0503\03R175\Struct\Sheet\East_Burns\04-EB-Super-Parapet-Horribler.dwg

LAYOUT	JMR	02/20/06
DRAWN	MMW/KR	07/20/05
REVIEWED	FLN	09/04/05

Corporate License Number 184-001-084

SUPERSTRUCTURE DETAILS

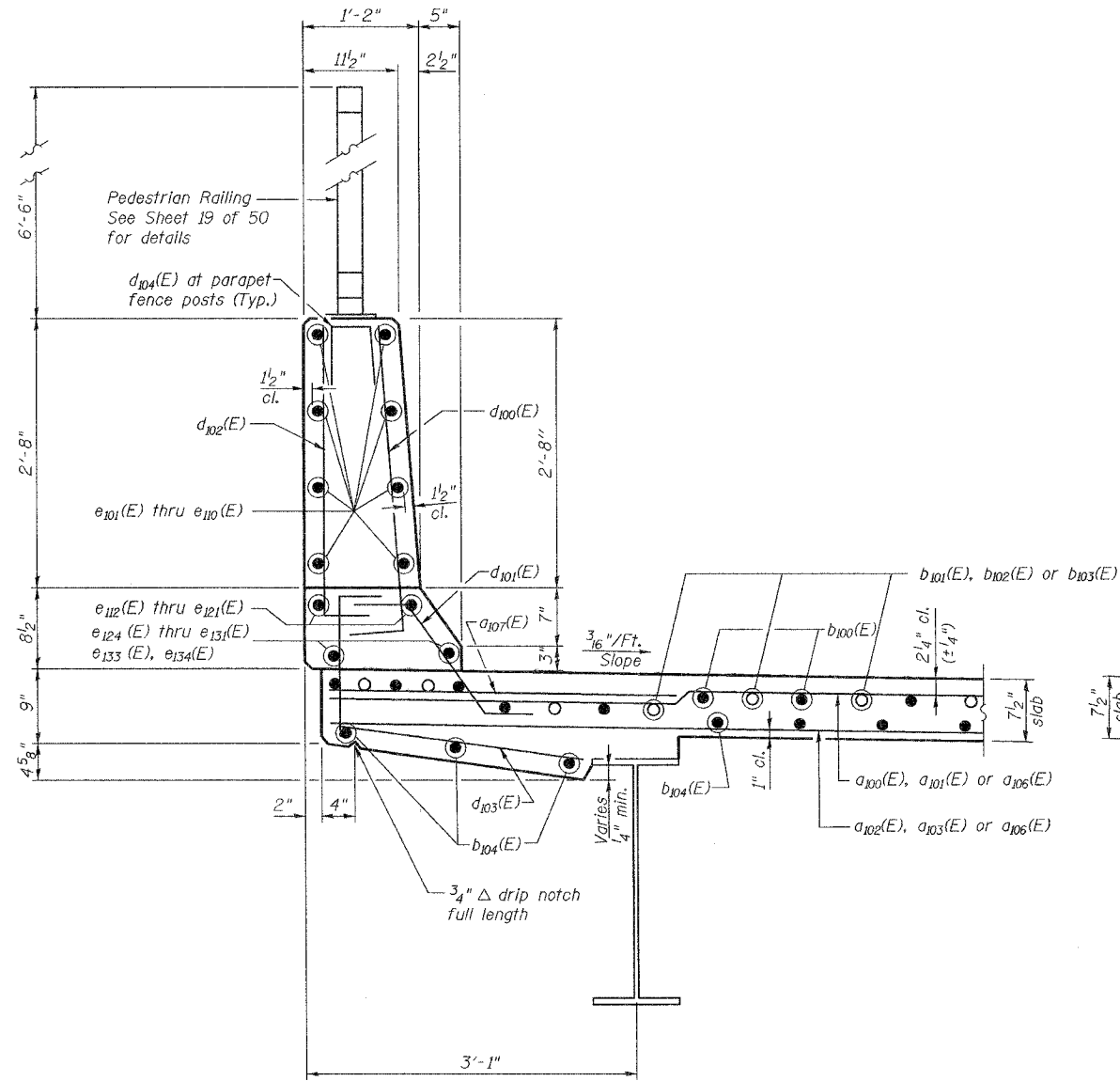
EASTBOUND HARRISON AVENUE
OVER UP & CC&P RAILROAD
F.A.P. ROUTE 0525
SECTION 02-00518-00-BR
ROCKFORD, ILLINOIS
STATION 95+72.00
STRUCTURE NO. 101-6111

© Copyright Hanson Professional Services Inc. 2006

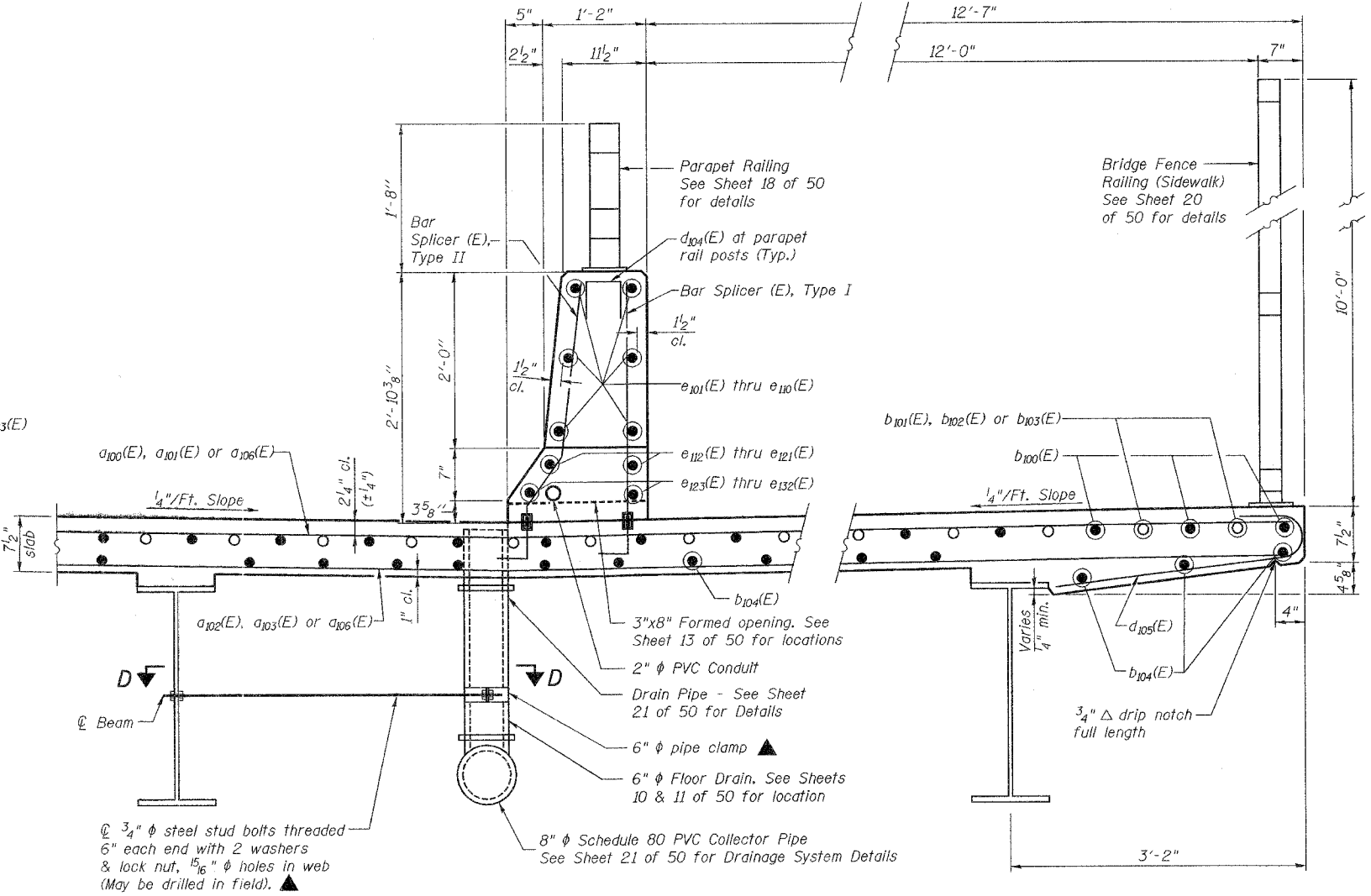
HANSON

JOB NO. 03R1751
DATE 12/14/06

PROJECT NO.	SECTION	COUNTY	SHEET	SHEET NO.
FAP 0525	•	WINNEBAGO	157	72
FED. ROAD DIST. NO. 7		BLDG. NO.	FED. AID PROJECT	50 SHEETS
• 02-00518-00-BR				



SECTION THRU PARAPET
(North Edge of Deck shown, Looking East)

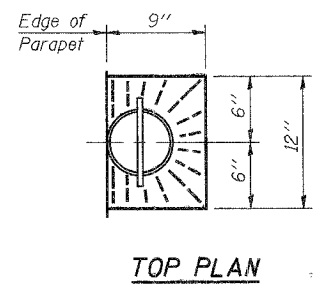


SECTION THRU PARAPET, MULTI-USE PATH & PEDESTRIAN FENCE
(South Edge of Deck shown, Looking East)

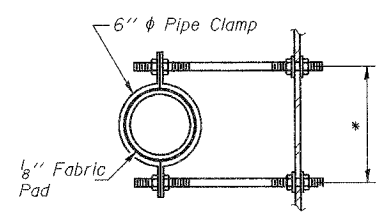
▲ - Cost included in Floor Drains

NOTES

Fiberglass rebar shall conform to ASTM D 2996, with short-time rupture strength hoop tension stress of 30,000 psi minimum. For Superstructure Bill of Material, see Sheet 16 of 50. Work this Sheet with Sheets 10 thru 14 and 16 of 50. PVC Type material shall be gray in color or painted gray in accordance with PVC manufacturer's recommendations.

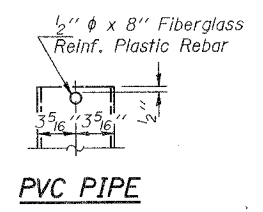


TOP PLAN



SECTION D-D

* Dimension as required by Pipe Clamp
6" DIAMETER FLOOR DRAIN



PVC PIPE

Drain and fittings shall be 6" Schedule 80, PVC conforming to ASTM Standard D1785, D2464, D2467

105267 AM 02/01/06
 12/04/2005 1052 AM
 1033 1000 03 07 05
 LAYOUT MR 02/01/06
 DRAWN MSW/KR 07/20/05
 REVIEWED FLN 08/04/05

Corporate License Number 184-001-084

SUPERSTRUCTURE DETAILS

**EASTBOUND HARRISON AVENUE
OVER UP & CC&P RAILROAD
F.A.P. ROUTE 0525
SECTION 02-00518-00-BR
ROCKFORD, ILLINOIS
STATION 95+72.00
STRUCTURE NO. 101-6111**

© Copyright Hanson Professional Services Inc. 2006

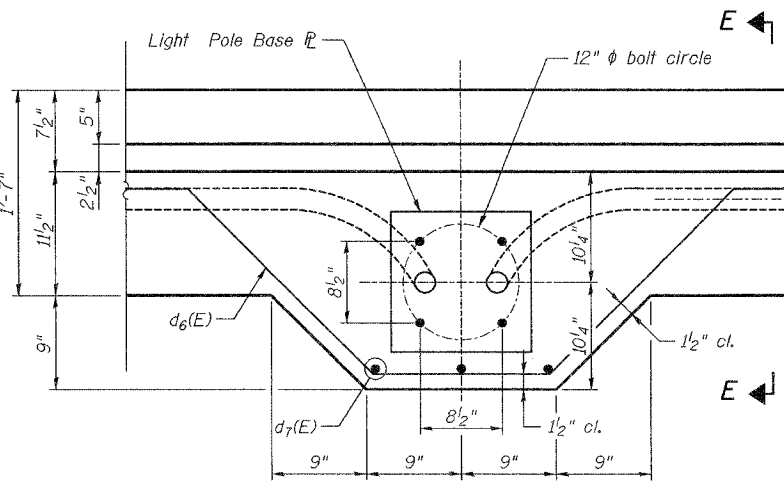


JOB NO.
03R1751
DATE
12/14/06

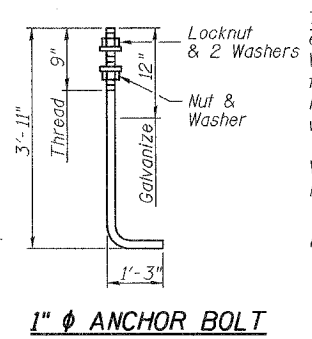
ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO.
FAP 0525	*	WINNEBAGO	157	73
FED. ROAD DIST. NO. 7		ILLINOIS	FED. RES. PROJECT	50 SHEETS
* 02-00518-00-BR				

SUPERSTRUCTURE BILL OF MATERIAL

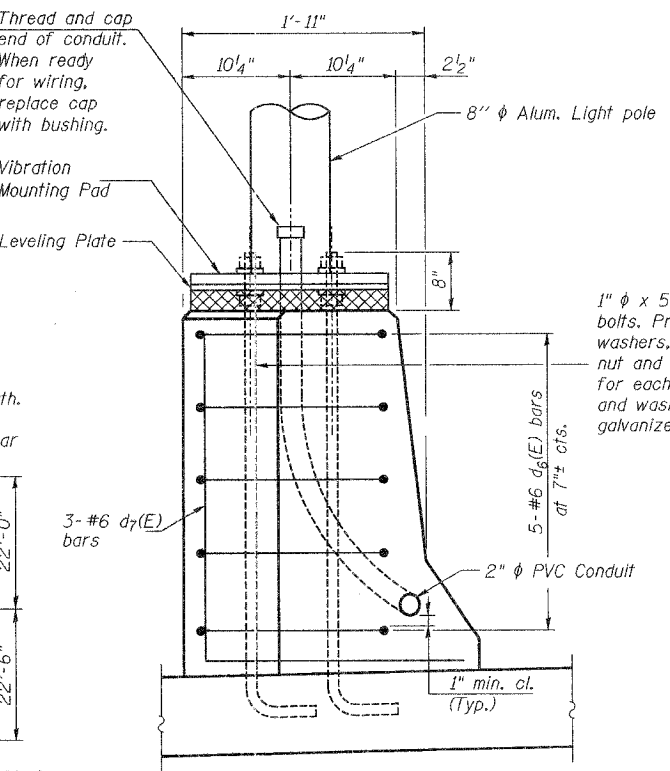
Bar	No.	Size	Length	Shape	
a ₁₀₀ (E)	47	#5	44'-6"	—	
a ₁₀₁ (E)	46	#5	42'-6"	—	
a ₁₀₂ (E)	33	#5	44'-10"	—	
a ₁₀₃ (E)	33	#5	42'-1"	—	
a ₁₀₄ (E)	4	#5	32'-6"	—	
a ₁₀₅ (E)	4	#5	33'-5"	—	
a ₁₀₆ (E)	1262	#5	43'-3"	—	
a ₁₀₇ (E)	417	#6	4'-6"	—	
b ₁₀₀ (E)	598	#5	34'-2"	—	
b ₁₀₁ (E)	88	#6	28'-7"	—	
b ₁₀₂ (E)	176	#6	25'-3"	—	
b ₁₀₃ (E)	88	#6	31'-10"	—	
b ₁₀₄ (E)	644	#5	31'-11"	—	
d ₁₀₀ (E)	455	#5	3'-8"	—	
d ₁₀₁ (E)	455	#5	2'-5"	—	
d ₁₀₂ (E)	455	#4	3'-8"	—	
d ₁₀₃ (E)	455	#4	3'-8"	—	
d ₁₀₄ (E)	200	#4	2'-1"	—	
d ₁₀₅ (E)	455	#4	4'-5"	—	
d ₁₀₆ (E)	15	#6	9'-4"	—	
d ₁₀₇ (E)	9	#6	4'-6"	—	
e ₁₀₀ (E)	12	#4	15'-10"	—	
e ₁₀₁ (E)	42	#4	13'-8"	—	
e ₁₀₂ (E)	28	#4	14'-6"	—	
e ₁₀₃ (E)	56	#4	18'-5"	—	
e ₁₀₄ (E)	28	#4	13'-1"	—	
e ₁₀₅ (E)	14	#4	15'-5"	—	
e ₁₀₆ (E)	14	#4	16'-3"	—	
e ₁₀₇ (E)	28	#4	12'-3"	—	
e ₁₀₈ (E)	56	#4	18'-0"	—	
e ₁₀₉ (E)	28	#4	16'-1"	—	
e ₁₁₀ (E)	70	#4	15'-11"	—	
x ₁₀₀ (E)	92	#5	4'-1"	—	
Reinforcement Bars, Epoxy Coated				Pound	143,020
Concrete Superstructure				Cu. Yds.	584.1
Bridge Deck Grooving				Sq. Yds.	1205
Protective Coat				Sq. Yds.	2760
Floor Drains				Each	3



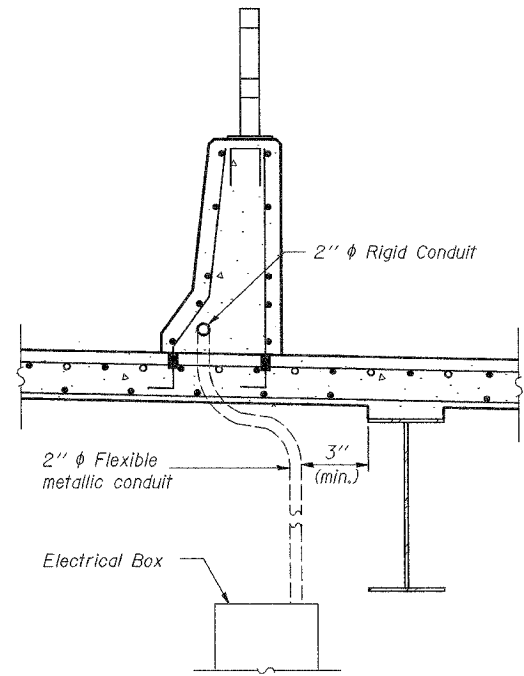
LIGHT POLE MOUNT PLAN



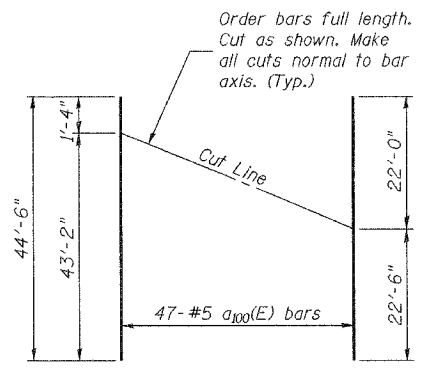
1" ϕ ANCHOR BOLT



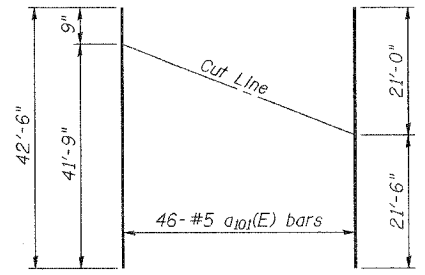
SECTION E-E



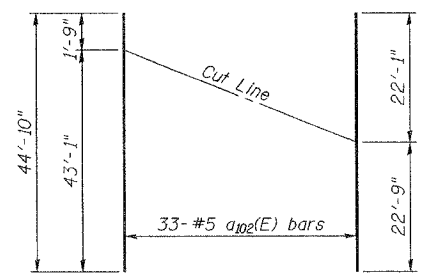
ELECTRICAL BOX - CONDUIT DETAILS



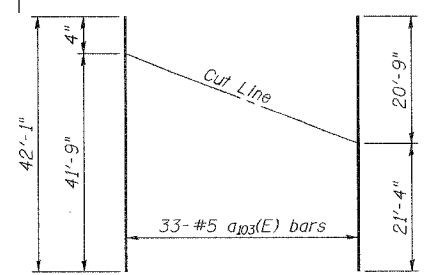
BAR a₁₀₀(E) CUTTING DIAGRAM 1



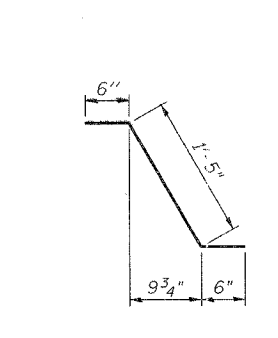
BAR a₁₀₁(E) CUTTING DIAGRAM 2



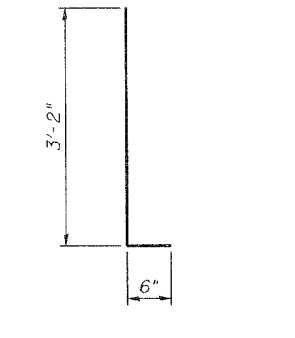
BAR a₁₀₂(E) CUTTING DIAGRAM 3



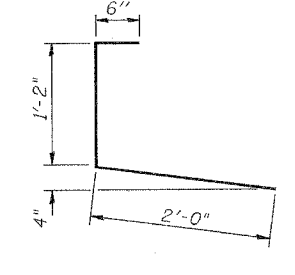
BAR a₁₀₃(E) CUTTING DIAGRAM 4



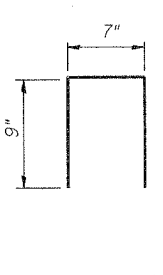
BAR d₁₀₁(E)



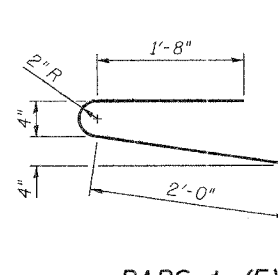
BARS d₁₀₀(E) & d₁₀₂(E)



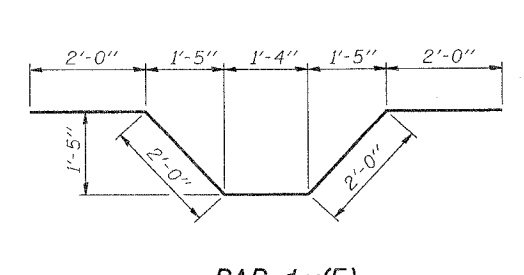
BAR d₁₀₃(E)



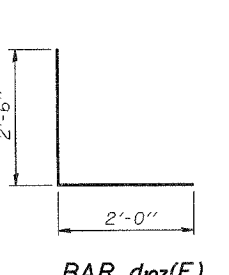
BARS d₁₀₄(E)



BARS d₁₀₅(E)



BAR d₁₀₆(E)



BAR d₁₀₇(E)

NOTES

Work this sheet with Sheets 10 thru 15 of 50.
 Bar indicated thus 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
 For light pole spacing see Sheet 13 of 50.
 Reinforcement bars designated (E) shall be epoxy coated.
 Cost of anchor bolts is included with Concrete Superstructure.
 Conduit shall not be placed in parapet until reinforcement is set.

Corporate License Number 184-001-084

SUPERSTRUCTURE DETAILS

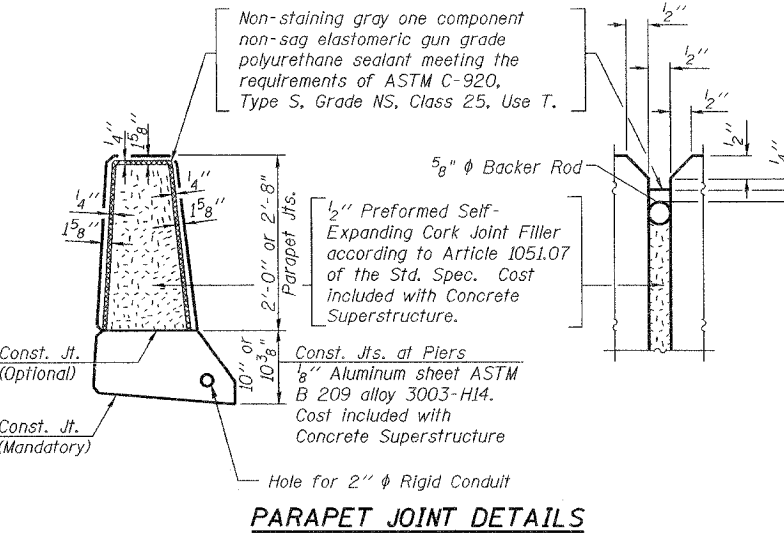
**EASTBOUND HARRISON AVENUE
 OVER UP & CC&P RAILROAD
 F.A.P. ROUTE 0525
 SECTION 02-00518-00-BR
 ROCKFORD, ILLINOIS
 STATION 95+72.00
 STRUCTURE NO. 101-6111**

© Copyright Hanson Professional Services Inc. 2006



PROJ. NO.
03R1751
DATE
12/14/06

LAYOUT: KR 02/01/06
 DRAWN: MW 02/02/06
 REVIEWED: ELN 02/04/06
 10/15/09 AM
 12/14/09 AM
 10/31/09 03:57:51 StructureSheet-Exec Board S-016-EB-Super-BRM.dgn



PARAPET JOINT DETAILS

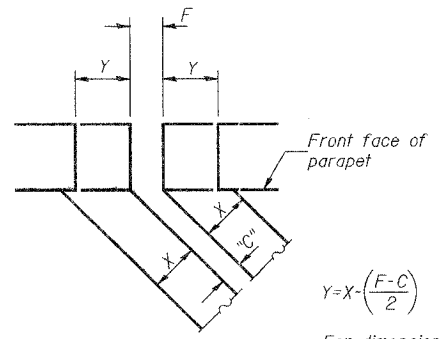
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 17
FAP 0525		WINNEBAGO	157	74	50 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT	
• 02-00518-00-BR					

Joint Size	"C" at 50°F	"D" at 50°F
4"	3"	2 1/2" Min.

INSTALLATION NOTES

- ① Install continuous seal in roadway, parapet, curb, and sidewalk.
- ② Install anchor blocks as indicated.

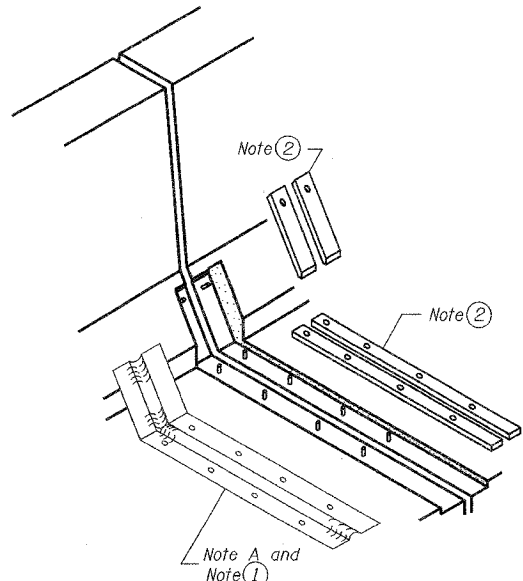
NOTE A: Maximum spacing of anchor bolts shall be 12" centers.



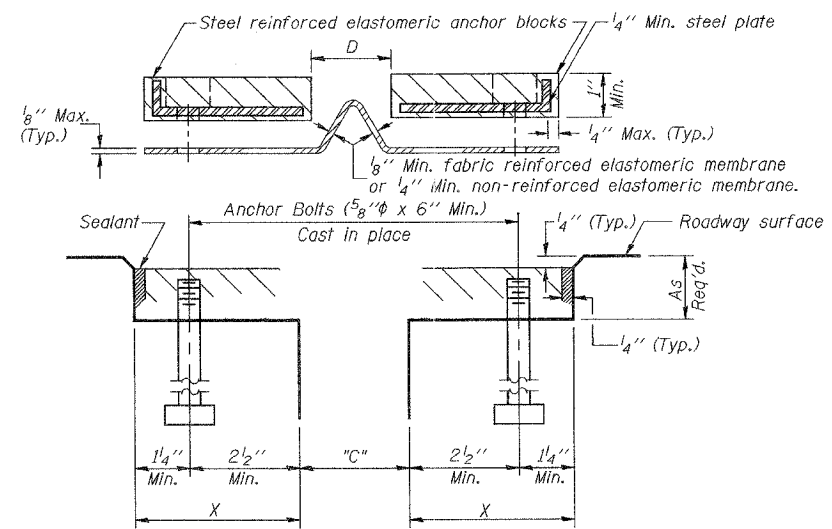
$$Y = X - \left(\frac{F - C}{2} \right)$$

For dimension "F" see Sheet 13 of 50

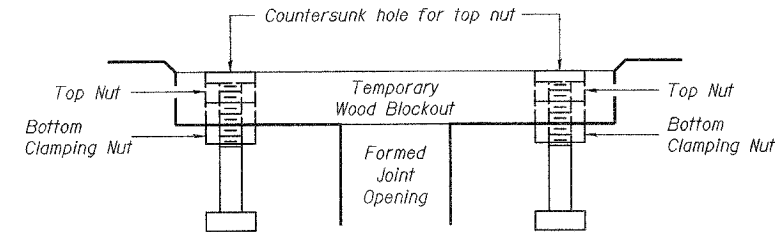
FORMING BLOCKOUT SKETCH



AT PARAPET

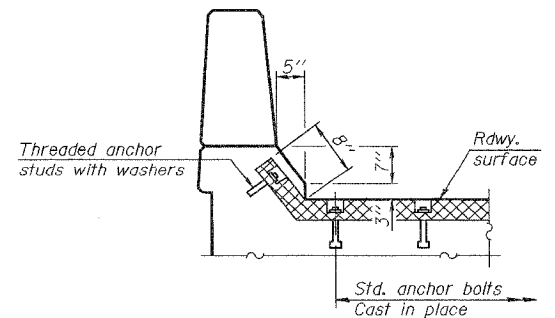


CROSS SECTION



Note: Stud needs to be threaded lower to allow for use of clamping nut.
Anchor studs should be stainless

RECOMMENDED BLOCKOUT DETAIL



AT PARAPET

BILL OF MATERIAL

Item	Unit	Total
Neoprene Expansion Joint, 4"	Foot	128

Corporate License Number 184-001-084

NEOPRENE EXPANSION JOINT

EASTBOUND HARRISON AVENUE
OVER UP & CC&P RAILROAD
F.A.P. ROUTE 0525
SECTION 02-00518-00-BR
ROCKFORD, ILLINOIS
STATION 95+72.00
STRUCTURE NO. 101-6111

© Copyright Hanson Professional Services Inc. 2006

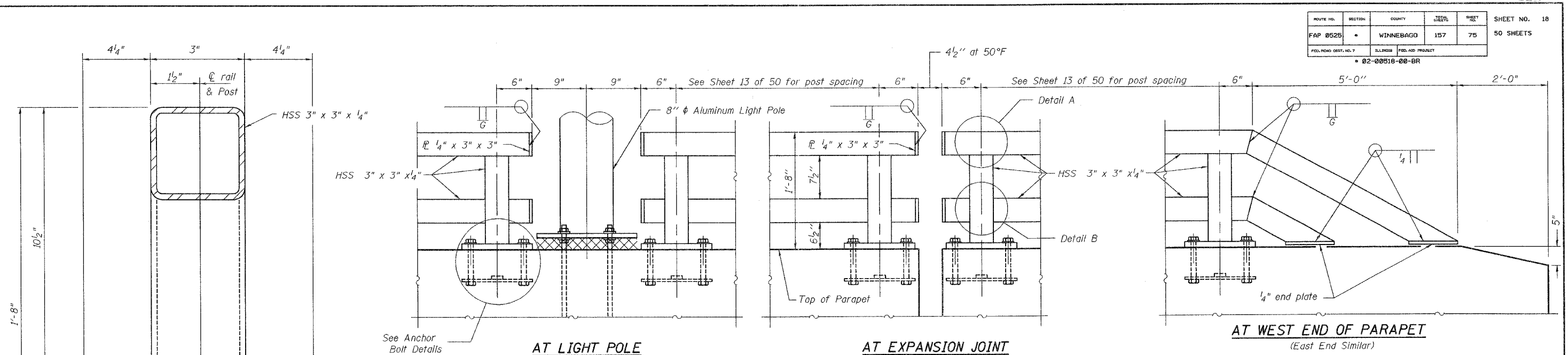


JOB NO. 03R1751

DATE 12/14/06

3:54:32 PM 06/01/06
 12/12/2006 03:54 PM
 I:\03\00518\00-BR\Struct\Sheet\East\Bound\Struct\EB-Neoprene\p.dwg
 LAYOUT JKR 06/01/06
 DRAWN MCM/KR 07/24/06
 REVIEWED FLN 08/04/06

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO.
FAP 0525		WINNEBAGO	157	75
FILL ROAD DIST. NO. 7		ILLINOIS		50 SHEETS
PROJECT NO. 02-00518-00-BR				



PARTIAL ELEVATION OF PARAPET RAILING
(Inside Face)

NOTES

Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot for Parapet Railing.

Hollow structural sections shall conform to the requirements of ASTM designation A 500, Grade B, structural steel tubing. All other steel shapes and plates shall conform to the requirements of AASHTO M270 Grade 36.

If the option of drilling and epoxy grouting the anchor rods is chosen, the Contractor shall use the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures. The capsule or the adhesive cartridge shall be sealed with pre-measured amounts of the adhesive chemical.

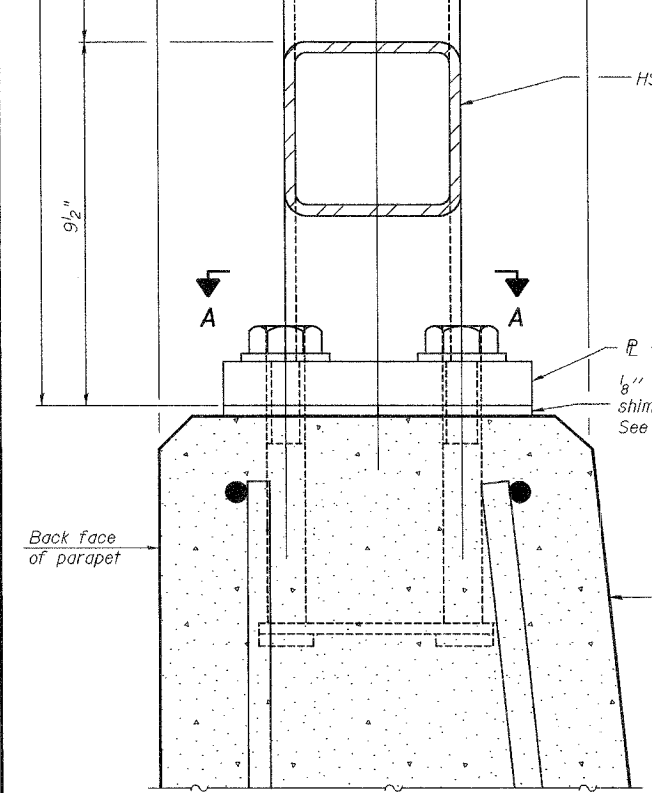
Space reinforcement to miss anchor rods.

All posts, railing, slices, anchor devices, and plates shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM A 385. All bolts, nuts, washers, and anchor rods shall be galvanized according to AASHTO M 232 except stainless steel bolts as noted.

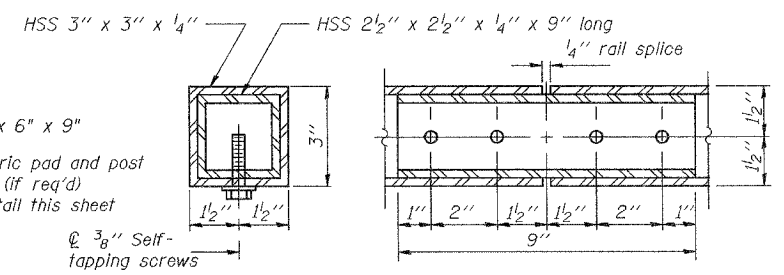
Vent holes for galvanizing shall be placed in the posts and rails at locations that will not allow the accumulation of moisture in the members.

Steel post shims maybe used under posts where required for alignment.

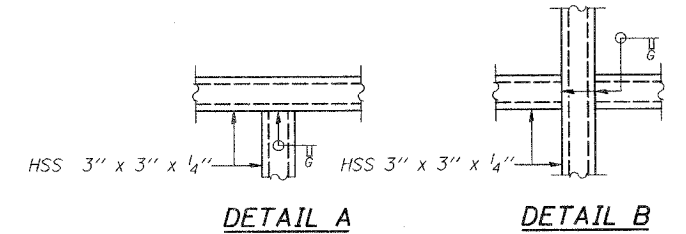
Fabricator shall account for roadway profile in fabricating the railing.



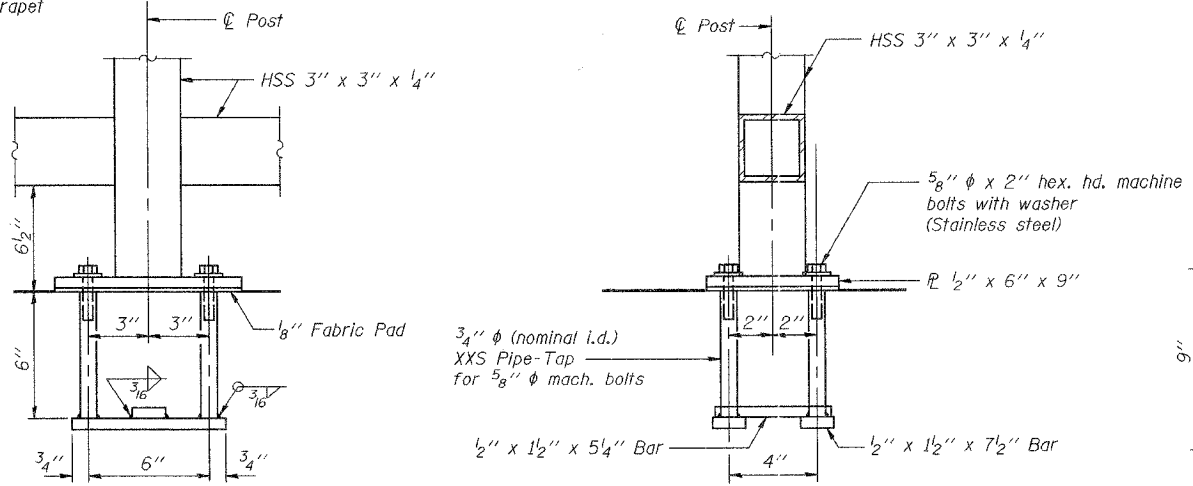
SECTION THRU RAILING



RAIL SPLICE
(Locations must be shown on shop drawings)

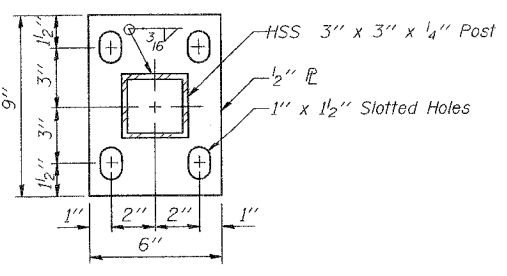


DETAIL A **DETAIL B**



ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and epoxy grouting 5/8\"/>



SECTION A-A BASE P

BILL OF MATERIAL

Item	Unit	Quantity
Parapet Railing	Foot	475

Corporate License Number 184-001-084

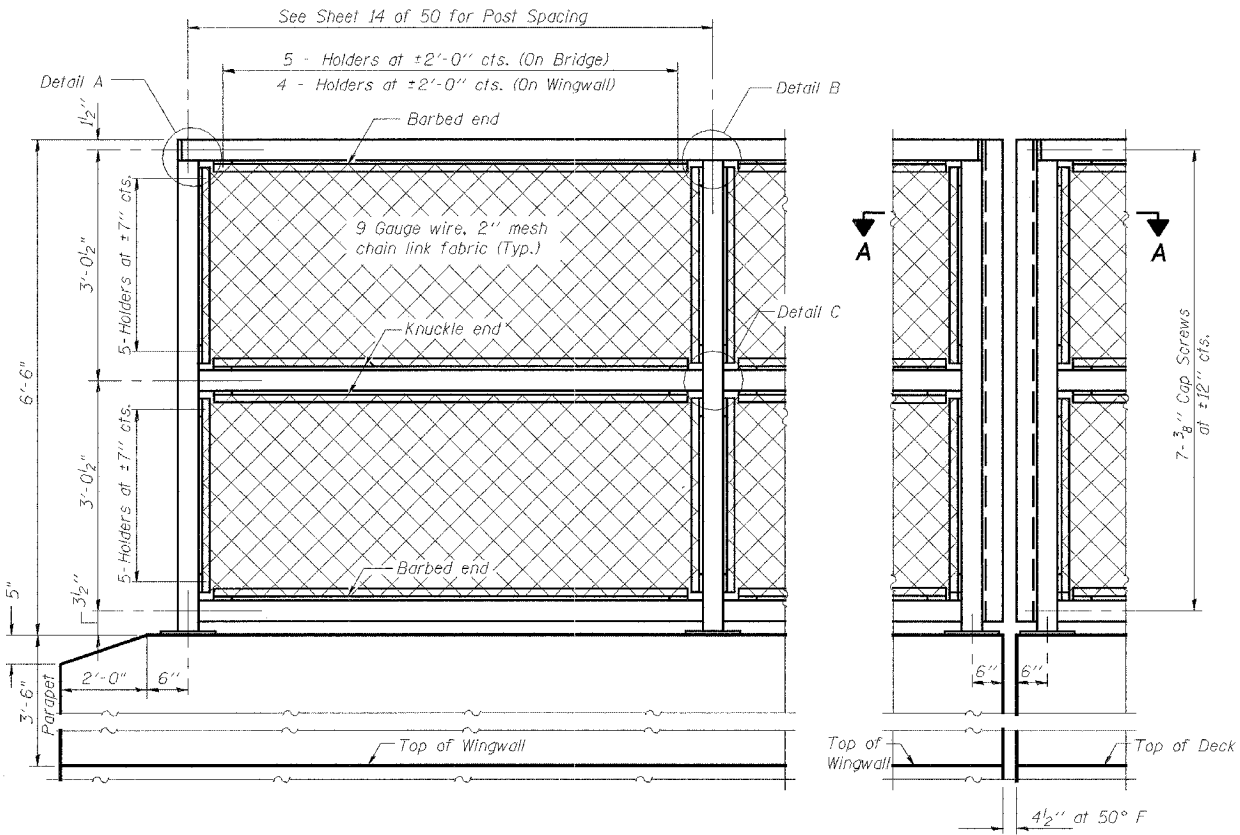
PARAPET STEEL RAILING

EASTBOUND HARRISON AVENUE
OVER UP & CC&P RAILROAD
F.A.P. ROUTE 0525
SECTION 02-00518-00-BR
ROCKFORD, ILLINOIS
STATION 95+72.00
STRUCTURE NO. 101-6111

© Copyright Hanson Professional Services Inc. 2006

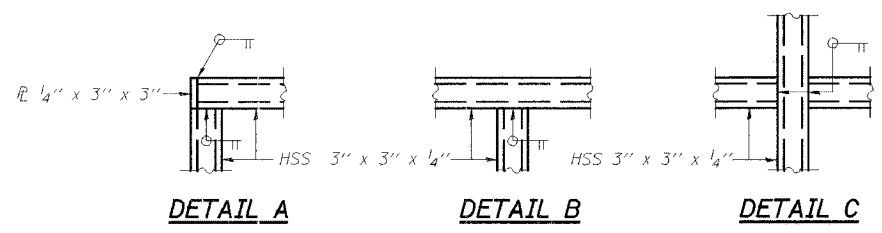
JOB NO. 03R1751
DATE 12/14/06

1:55:08 PM 12/14/06 12:21:00 01:55 PM
 DRAWN: MSH/AM/07/24/06
 REVIEWED: FLN 02/04/06
 FILE: 02-00518-00-BR-Parapet-Steel-Railing.dgn

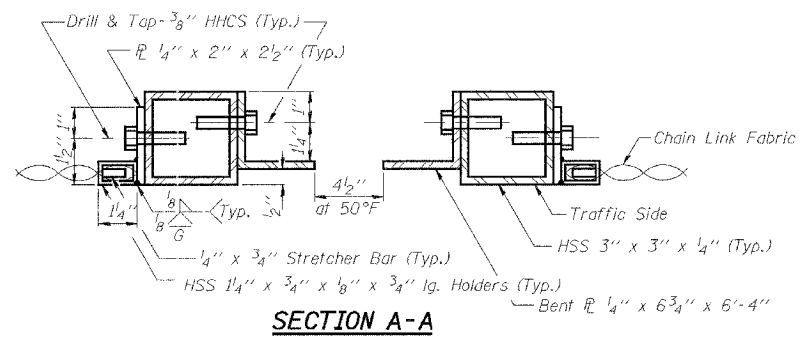


ELEVATION
(Inside Face)

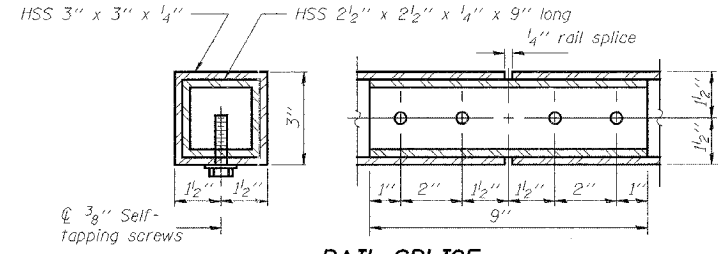
ELEVATION
(At Expansion Joint)



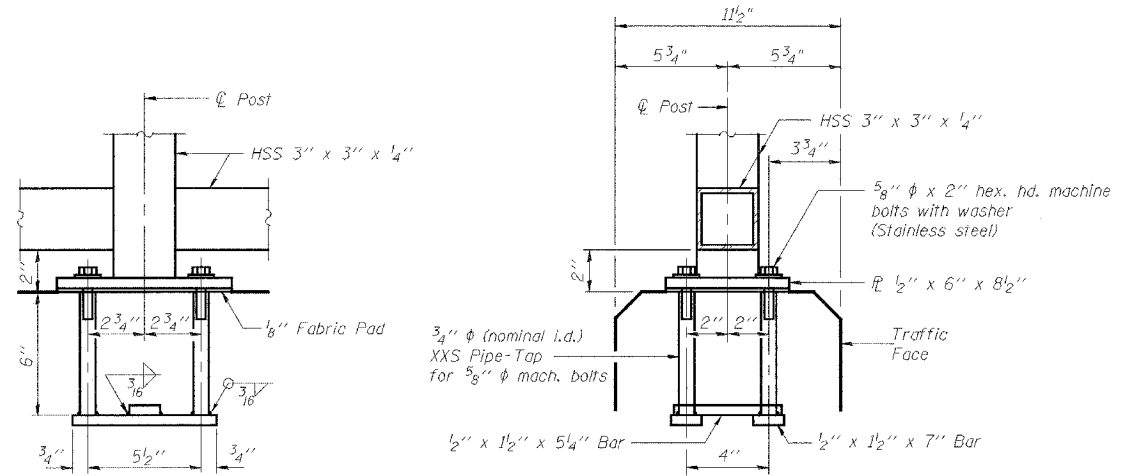
DETAIL A **DETAIL B** **DETAIL C**



SECTION A-A

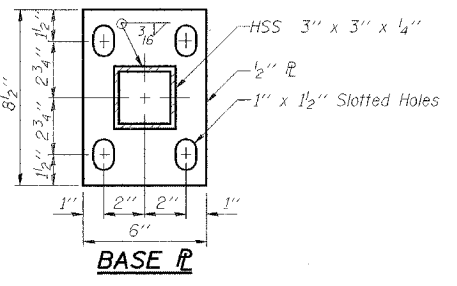


RAIL SPLICE



ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and epoxy grouting 5/8" ϕ anchor rods. Embedment shall be according to the manufacturer's specifications.



BASE PL

NOTES

Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the Contract Unit Price per Foot for Pedestrian Railing.
 The 9 gauge fabric ties shall be according to Article 1006.27(d) of the Standard Specifications.
 Installation of the chain link fabric shall be according to Section 664 of the Standard Specifications.
 Hollow structural sections shall conform to the requirements of ASTM designation A 500, Grade B, structural steel tubing.
 All other steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36.
 The chain link fabric shall be placed along Traffic Side as shown on Section A-A.
 Stretcher bars shall be used at all four sides of each panel.
 If the option of drilling and epoxy grouting the anchor rods is chosen, the Contractor shall use the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures. The capsule or the adhesive cartridge shall be sealed with pre-measured amounts of the adhesive chemical.
 Space reinforcement to miss anchor rods.
 All posts, railing, slices, anchor devices, and bent plates shall be galvanized after shop fabrication according to AASHTO M III and ASTM A 385. All bolts, nuts, washers, and anchor rods shall be galvanized according to AASHTO M 232 except stainless steel bolts as noted.
 Vent holes for galvanizing shall be placed in the posts and rails at locations that will not allow the accumulation of moisture in the members.
 The chain link fabric shall conform to the requirements of Article 1006.27(a)(1), a, b, or c of the Standard Specifications.

BILL OF MATERIAL

Item	Unit	Quantity
Pedestrian Railing	Foot	439

Corporate License Number 184-001-084

PEDESTRIAN RAILING

**EASTBOUND HARRISON AVENUE
 OVER UP & CC&P RAILROAD
 F.A.P. ROUTE 0525
 SECTION 02-00518-00-BR
 ROCKFORD, ILLINOIS
 STATION 95+72.00
 STRUCTURE NO. 101-6111**

© Copyright Hanson Professional Services Inc. 2008

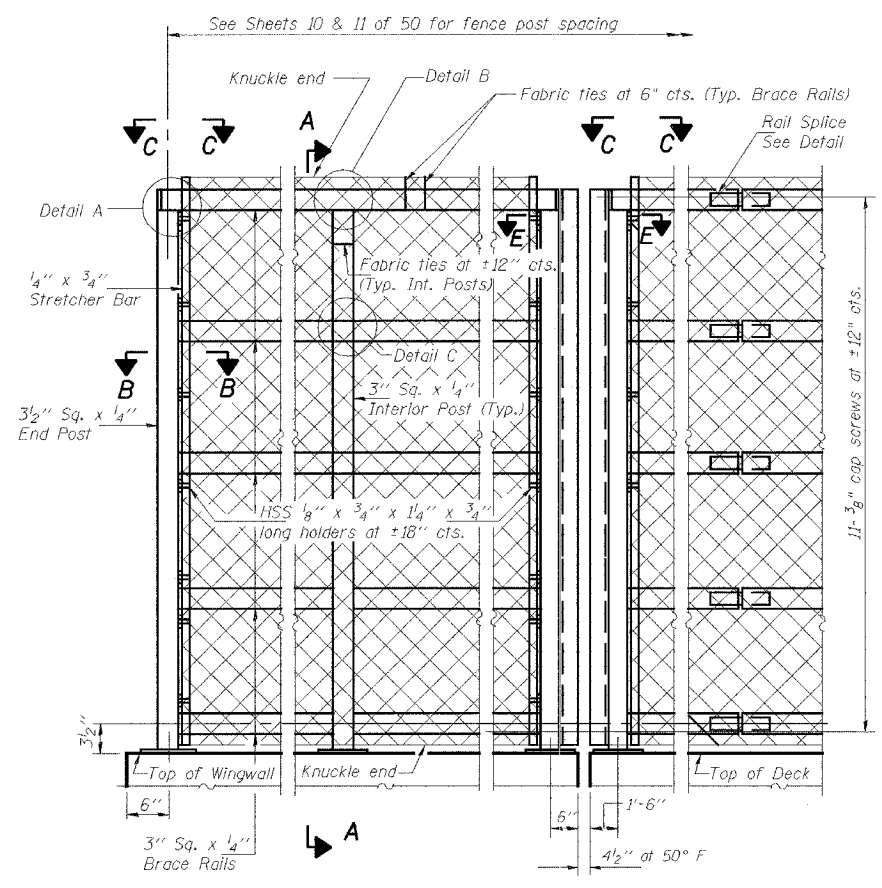


03R1751

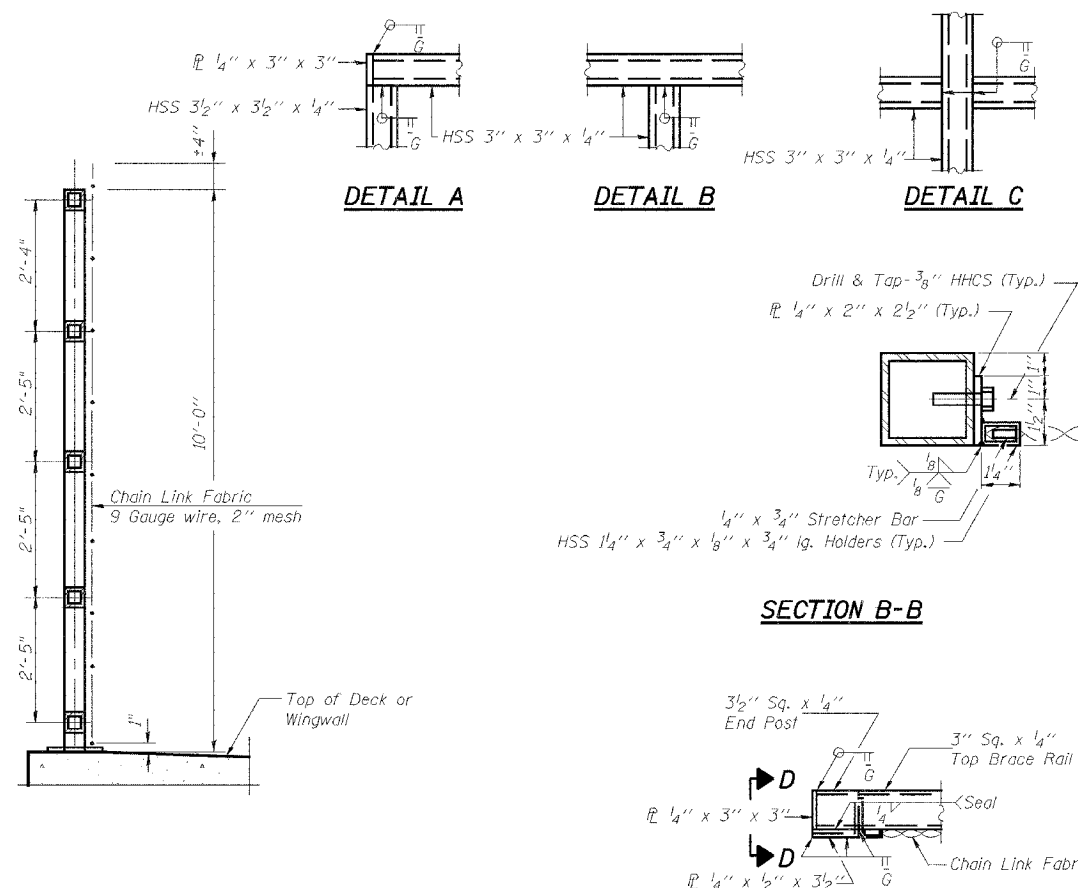
12/14/06

9845 AM 09/07/05
 ONEX3007.0549 AM
 I:\03\06\03\17\5\Struct\Sheet\East\019-EP-parapet.rvt
 LAYOUT: 09/07/05
 DRAWN: MDM/KR/07/24/05
 REVIEWED: FLM 08/04/06

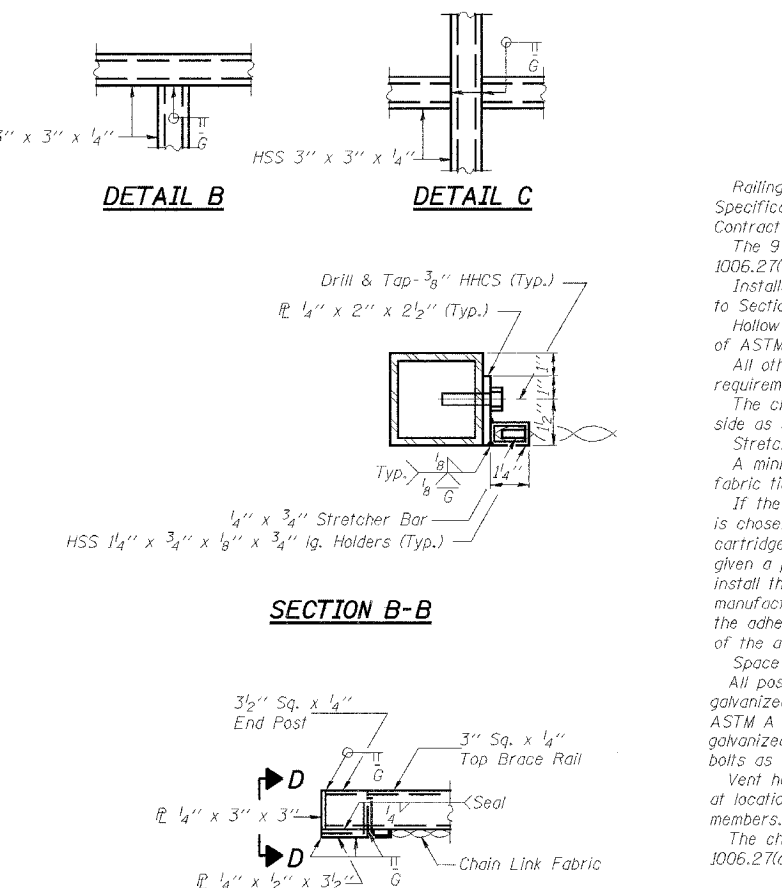
ROUTE NO.	SECTION	COUNTY	DATE	SHEET	SHEET NO. 20
FAP 0525		WINNEBAGO	157	77	50 SHEETS
ILLINOIS					FED. AID PROJECT
02-00518-00-BR					85399



ELEVATION
(Inside Face)
(East End Shown, West End Similar)

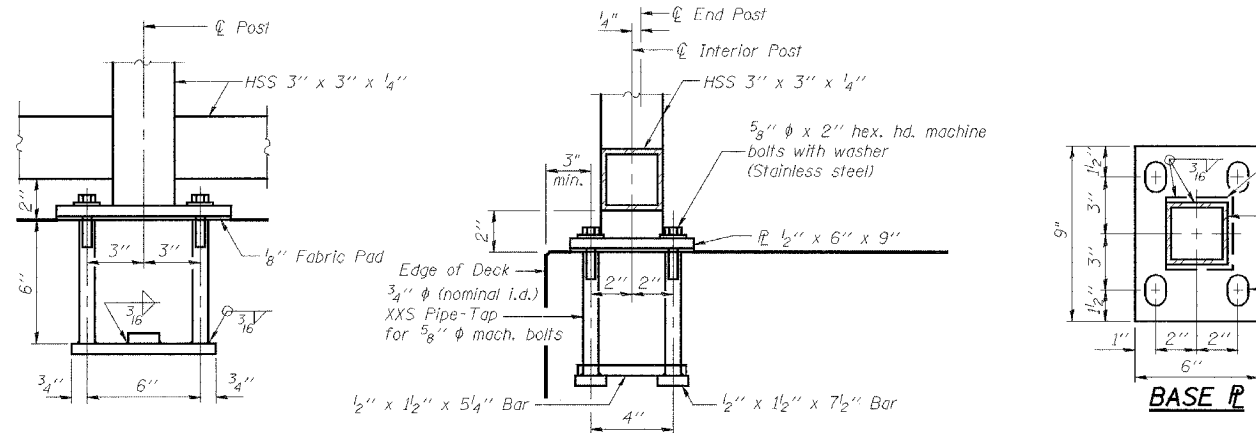


SECTION A-A



NOTES

Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the Contract Unit Price per foot for Bridge Fence Railing (Sidewalk).
 The 9 gauge fabric ties shall be according to Article 1006.27(d) of the Standard Specifications.
 Installation of the chain link fabric shall be according to Section 664 of the Standard Specifications.
 Hollow structural sections shall conform to the requirements of ASTM designation A 500, Grade B, structural steel tubing.
 All other steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36.
 The chain link fabric shall be placed along pedestrian side as shown on Section A-A.
 Stretcher bars shall be used at each end of fabric.
 A minimum of one complete turn is required at ends of all fabric ties.
 If the option of drilling and epoxy grouting the anchor rods is chosen, the Contractor shall use the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures. The capsule or the adhesive cartridge shall be sealed with pre-measured amounts of the adhesive chemical.
 Space reinforcement to miss anchor rods.
 All posts, railing, splices, anchor devices, and plates shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM A 385. All bolts, nuts, washers, and anchor rods shall be galvanized according to AASHTO M 232 except stainless steel bolts as noted.
 Vent holes for galvanizing shall be placed in the posts and rails at locations that will not allow the accumulation of moisture in the members.
 The chain link fabric shall conform to the requirements of Article 1006.27(a)(1)a, b or c of the Standard Specifications.



ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and epoxy grouting 5/8\"/>

BILL OF MATERIAL

Item	Unit	Quantity
Bridge Fence Railing (Sidewalk)	Foot	442

Corporate License Number 184-001-084

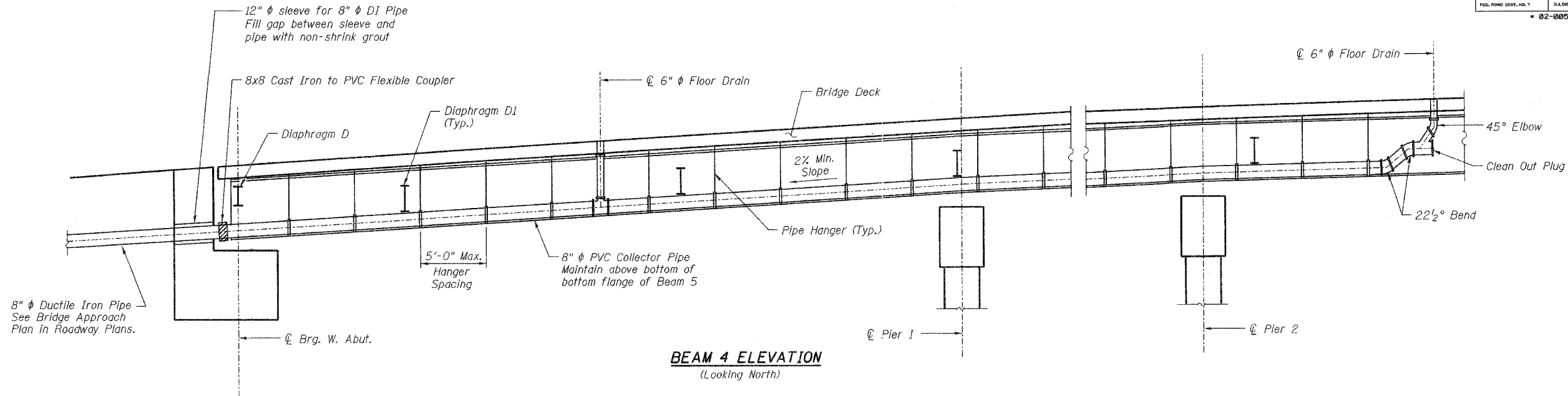
BRIDGE FENCE RAILING (SIDEWALK)

**EASTBOUND HARRISON AVENUE
 OVER UP & CC&P RAILROAD
 F.A.P. ROUTE 0525
 SECTION 02-00518-00-BR
 ROCKFORD, ILLINOIS
 STATION 95+72.00
 STRUCTURE NO. 101-6111**

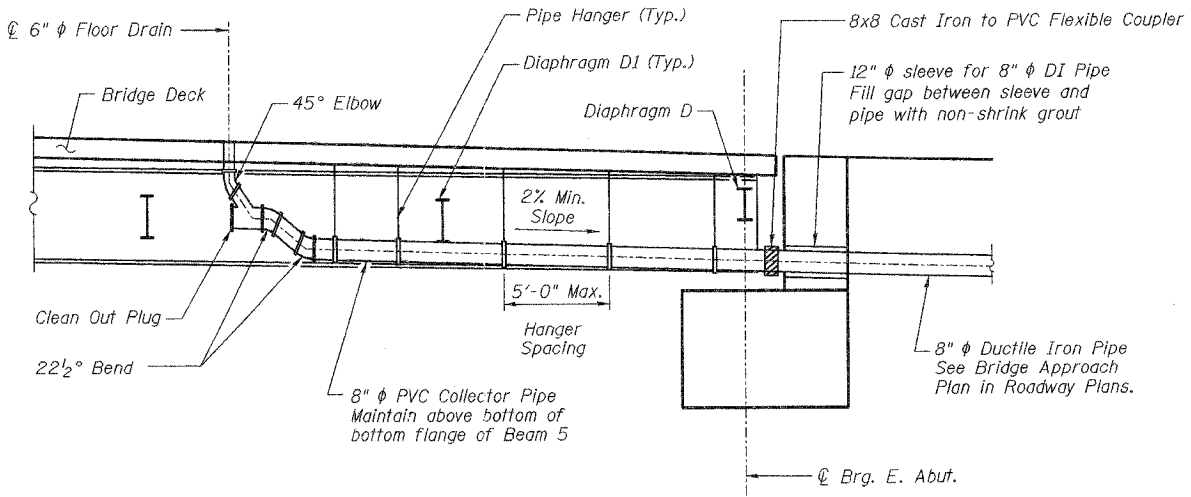
© Copyright Hanson Professional Services Inc. 2005
 HANSON
 03R1751
 12/14/06

9/24/06 JHR 09/21/06
 05/23/07 05/21/07
 12/03/07 07/24/08
 08/01/08

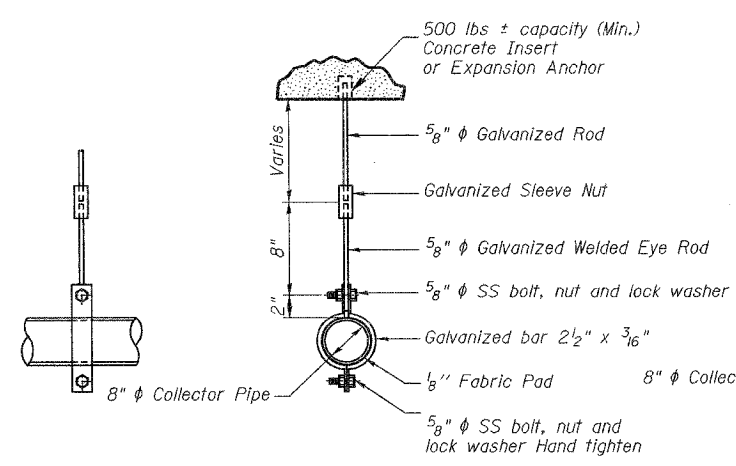
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 21 50 SHEETS
FAP 0525		WINNEBAGO	157	78	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		
02-00518-00-BR					



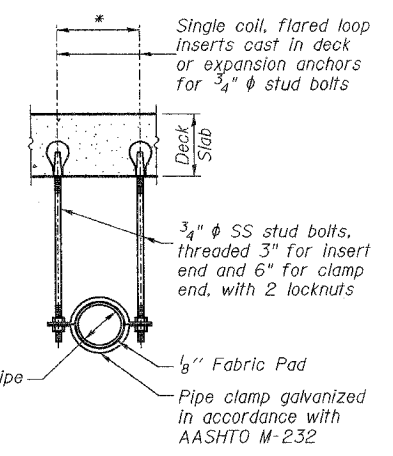
BEAM 4 ELEVATION
(Looking North)



BEAM 4 ELEVATION
(Looking North)



ELEVATION **TYPICAL SECTION**
ALTERNATE PIPE HANGER DETAIL



PIPE HANGER DETAILS
*Dimension as required by Pipe Clamp

NOTES

Collector Pipes, Drain Pipes, and fittings shall be 6" or 8" Schedule 80, PVC conforming to ASTM Standards D1785, D2464, or D2467. Cost of Collector Pipes, Drain Pipes, fittings, pipe hangers, and couplers included in lump sum payment for Drainage System. PVC Type material shall be gray in color or painted gray in accordance with PVC manufacturer's recommendations.

Corporate License Number 184-001-084

DRAINAGE SYSTEM DETAILS

**EASTBOUND HARRISON AVENUE
OVER UP & CC&P RAILROAD
F.A.P. ROUTE 0525
SECTION 02-00518-00-BR
ROCKFORD, ILLINOIS
STATION 95+72.00
STRUCTURE NO. 101-6111**

© Copyright Hanson Professional Services Inc. 2006



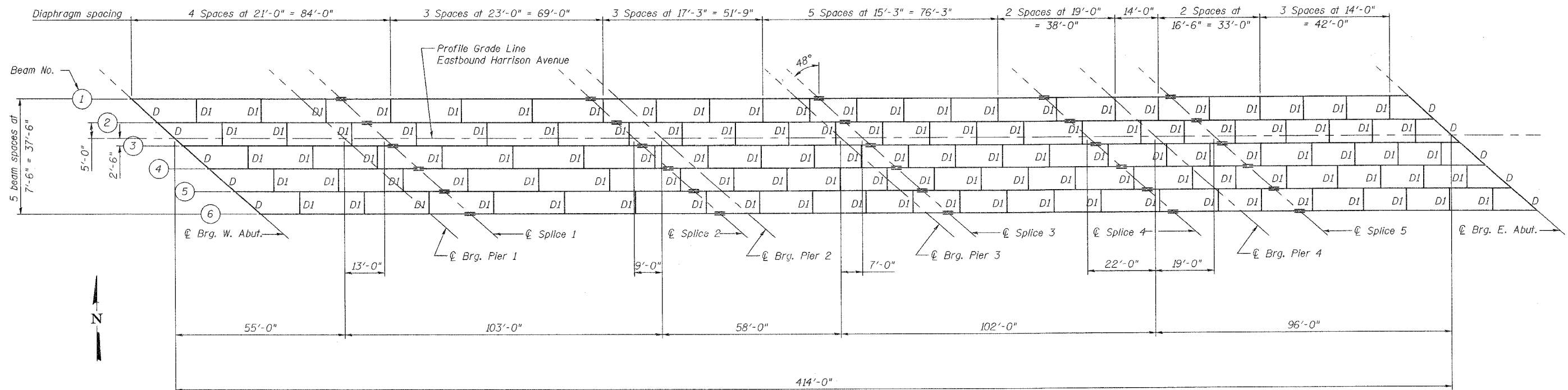
JOB NO.
03R1751

DATE
12/14/06

9-4657 AM 03/01/06
 12/12/2006 09:46 AM
 1:03 [pos 03] 15 Structural Steel Beam S-02-EB-Collector Pipe Design

LAYOUT	JNR	03/01/06
DRAWN	MMJ/KR	07/24/06
REVIEWED	FLN	08/04/06

ROUTE NO.	SECTION	COUNTY	FEEBL NO.	SHEET NO.	SHEET NO. 22
FAP 0525	*	WINNEBAGO	157	79	50 SHEETS
FEL. ROAD DIST. NO. 7		ILLINOIS		FEL. ROAD PROJECT	
* 02-00518-00-BR					



FRAMING PLAN

NOTES

Work this Sheet with Sheets 23 thru 25 of 50.

Corporate License Number 184-001-084

FRAMING PLAN

EASTBOUND HARRISON AVENUE
 OVER UP & CC&P RAILROAD
 F.A.P. ROUTE 0525
 SECTION 02-00518-00-BR
 ROCKFORD, ILLINOIS
 STATION 95+72.00
 STRUCTURE NO. 101-6111

© Copyright Hanson Professional Services Inc. 2006



DATE
12/14/06

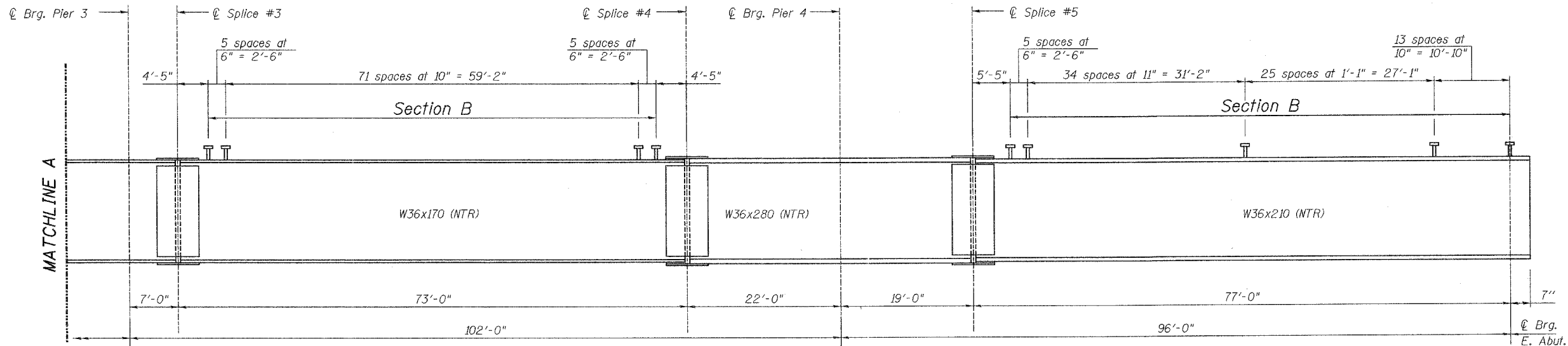
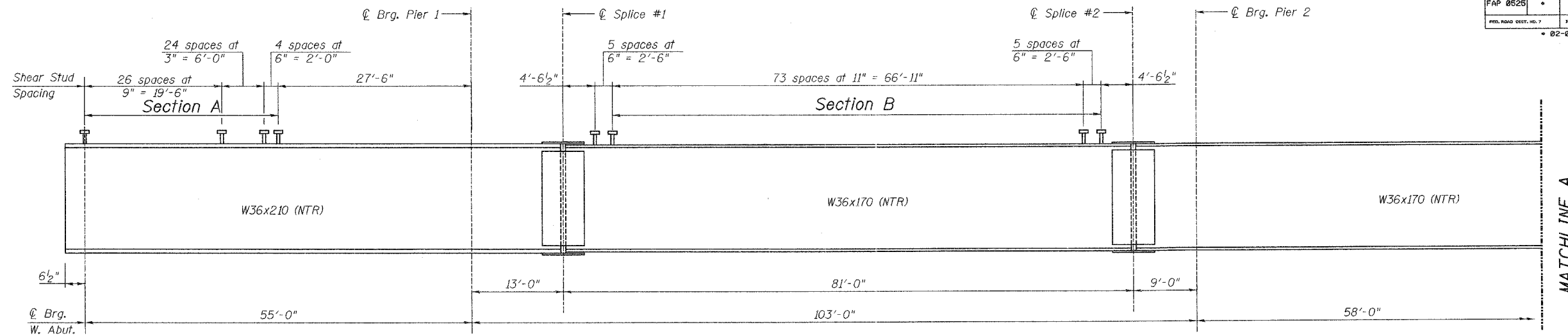
9-4-07 AM
 12/13/2006 09:47 AM
 I:\03\iss\03R1751\Struct\Sheet\East\BurrMS-02-EB-Str\StrPlan.dgn

LAYOUT
 DRAWN
 REVIEWED

SIG
 MOM/KRS
 FLN

02/01/06
 07/24/06
 08/04/06

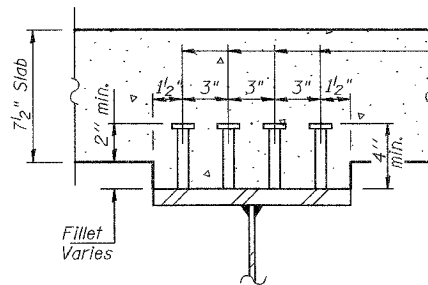
ROUTE NO.	SECTION	COUNTY	POST MILES	SHEET NO.	SHEET NO. 23 50 SHEETS
FAP 0525	*	WINNEBAGO	157	80	
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		
* 02-00518-00-BR					



BEAM ELEVATION

(Looking North)

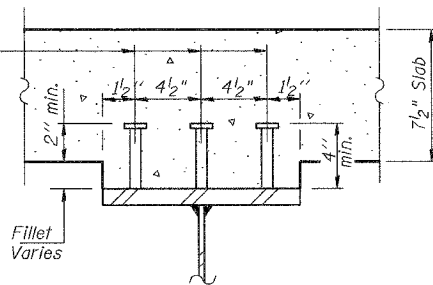
"NTR" denotes members to which notch toughness requirements are applicable.



SECTION A-A

3/4" ϕ Granular or solid flux filled headed studs automatically end welded to flange.

Total number of shear studs required = 5,712



SECTION B-B

NOTES

All beams and splice plates, except filler plates, shall be AASHTO M270, Grade 50.
Work this Sheet with Sheets 22, 24, and 25 of 50.

Corporate License Number 184-001-084

BEAM ELEVATION

**EASTBOUND HARRISON AVENUE
OVER UP & CC&P RAILROAD
F.A.P. ROUTE 0525
SECTION 02-00518-00-BR
ROCKFORD, ILLINOIS
STATION 95+72.00
STRUCTURE NO. 101-6111**

© Copyright Hanson Professional Services Inc. 2006

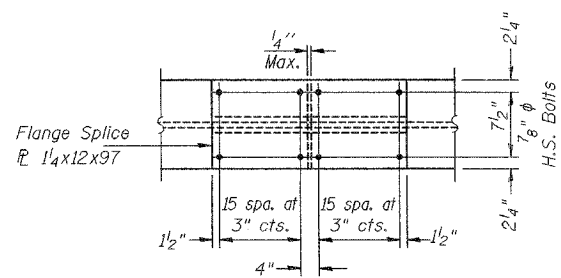


03R1751

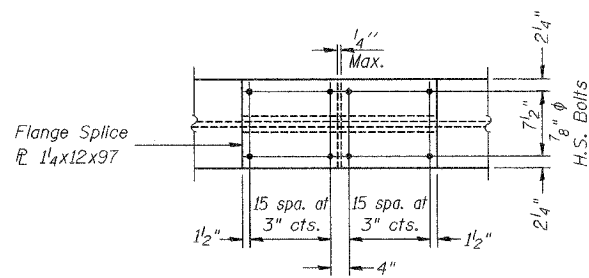
DATE
12/14/06

9:47:58 AM 12/13/2006 09:47 AM
 I:\03\00518\00\BR\Struct\Sheet\East\Beam\01\1.dgn
 LAYOUT: SLG 12/21/06
 DRAWN: MCM/JRH/01/24/06
 REVIEWED: FLN 08/05/06

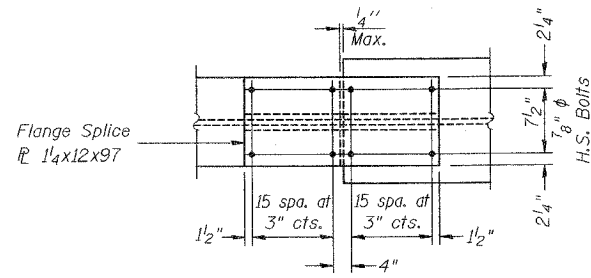
ROUTE NO.	SECTION	COUNTY	DATE	SHEET
FAP 0525	*	WINNEBAGO	157	81
SHEET NO. 24				
50 SHEETS				
FED. ROAD DIST. NO. 7				
ILLINOIS FED. AID PROJECT				
• 02-00518-00-BR				



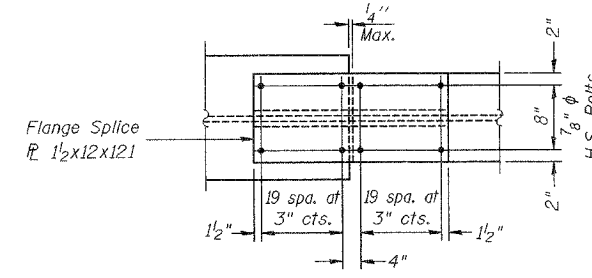
TOP & BOTTOM FLANGE



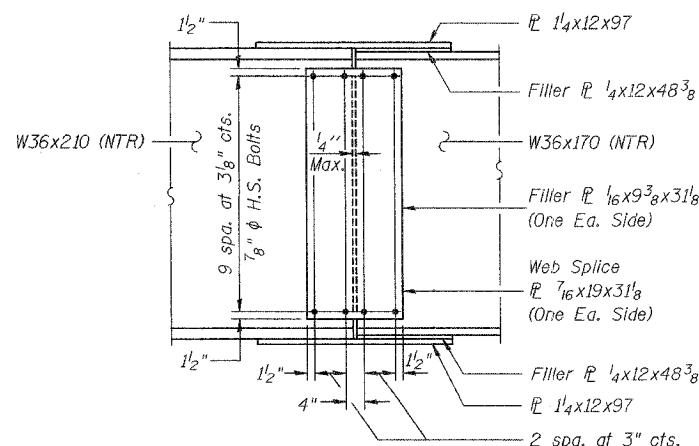
TOP & BOTTOM FLANGE



TOP & BOTTOM FLANGE



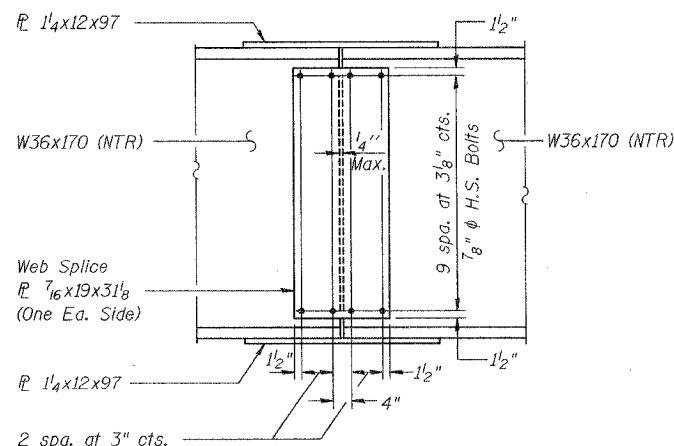
TOP & BOTTOM FLANGE



WEB

SPLICE #1 DETAIL

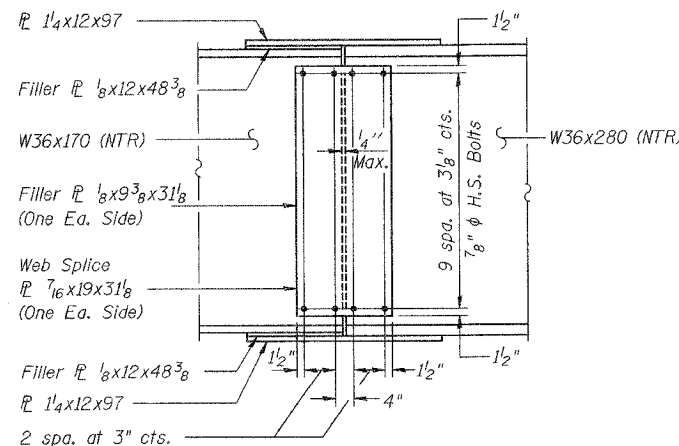
(Looking North)



WEB

SPLICE #2 & #3 DETAIL

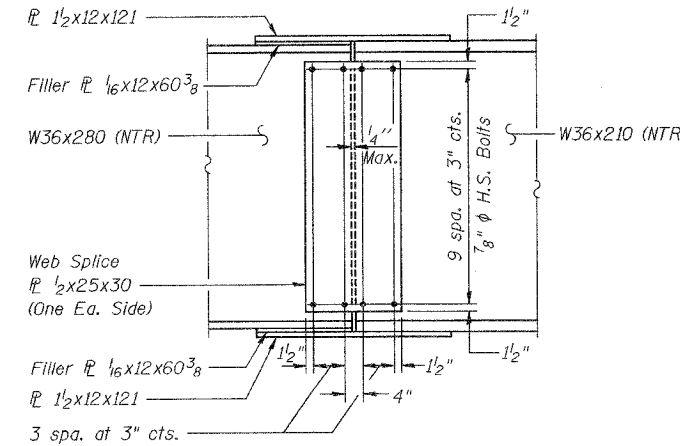
(Looking North)



WEB

SPLICE #4 DETAIL

(Looking North)



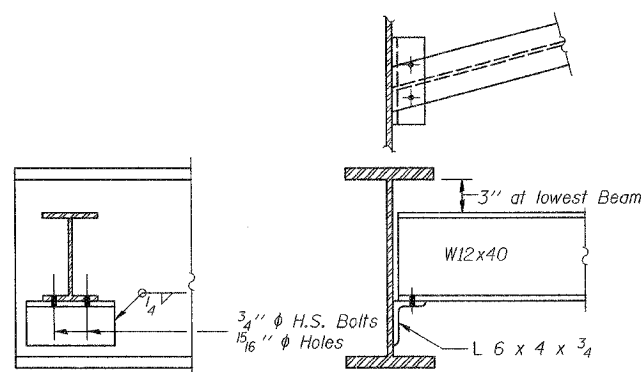
WEB

SPLICE #5 DETAIL

(Looking North)

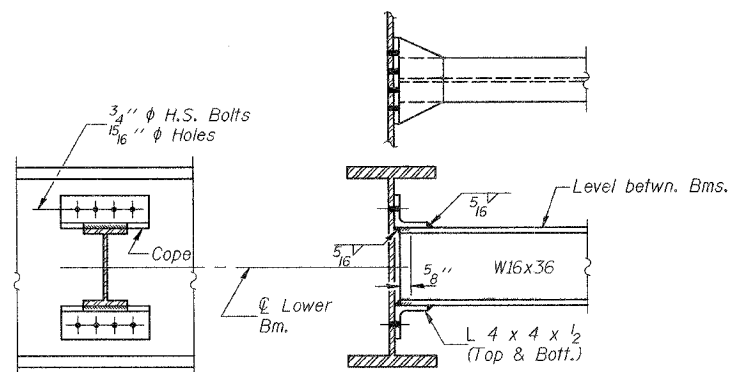
NOTES

Notch Toughness Requirements are applicable to all splice plates except fill plates.
 All splice plates shall be AASHTO M270, Grade 50, except fill plates.
 All bolts are 7/8" ϕ H.S., open holes 15/16" ϕ .
 Work this Sheet with Sheets 22, 23, and 25 of 50.



DIAPHRAGM D

10 Required



DIAPHRAGM D1

115 Required

Note: Two hardened washers shall be required over all oversize holes for diaphragms.

946440 AM
 12/13/2006, 06:09:48 AM
 I:\03\1005\0317\01\Struct\Steel\East Bound\S-02-EE-Sp-Det.dgn
 LAYOUT: SLG 02/07/06
 DRAWN: MMJ/AR 07/24/06
 REVIEWED: FLN 08/05/06

Corporate License Number 184-001-084

STRUCTURAL STEEL DETAILS

EASTBOUND HARRISON AVENUE
 OVER UP & CC&P RAILROAD
 F.A.P. ROUTE 0525
 SECTION 02-00518-00-BR
 ROCKFORD, ILLINOIS
 STATION 95+72.00
 STRUCTURE NO. 101-6111

© Copyright Hanson Professional Services Inc. 2006



03R1751

DATE 12/14/06

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 25
FAP 0525	*	WINNEBAGO	157	82	50 SHEETS
FED. ROAD DIST. NO. 7					ILLINOIS FED. AID PROJECT
* 02-00518-00-BR					

TOP OF BEAM ELEVATIONS

	Beam 1	Beam 2	Beam 3	Beam 4	Beam 5	Beam 6
℄ Brg. W. Abut.	800.58	800.89	801.18	801.43	801.82	802.36
℄ Pier 1	803.12	803.36	803.57	803.75	804.06	804.53
Splice 1 (W36x210)	803.72	803.94	804.14	804.30	804.59	805.04
Splice 1 (W36x170)	803.70	803.92	804.12	804.28	804.57	805.02
Splice 2 (W36x170)	806.52	806.63	806.72	806.77	806.95	807.29
℄ Pier 2	806.72	806.82	806.89	806.93	807.10	807.43
℄ Pier 3	807.98	808.00	808.00	807.96	808.05	808.30
Splice 3 (W36x170)	808.13	808.15	808.13	808.08	808.17	808.40
Splice 4 (W36x170)	808.88	808.79	808.68	808.53	808.51	808.65
Splice 4 (W36x280)	808.89	808.80	808.69	808.54	808.53	808.66
℄ Pier 4	808.89	808.77	808.63	808.45	808.40	808.51
Splice 5 (W36x280)	808.89	808.75	808.58	808.37	808.30	808.38
Splice 5 (W36x210)	808.89	808.75	808.58	808.38	808.30	808.39
℄ Brg. E. Abut.	808.29	808.04	807.77	807.46	807.28	807.26

Top of Beam Elevations are given for fabrication only.
Elevations have been adjusted up to account for
Dead Load Deflection.

INTERIOR GIRDER MOMENT TABLE

	0.4 Sp. 1	Pier 1	0.5 Sp. 2	Pier 2	0.5 Sp. 3***	Pier 3	0.5 Sp. 4	Pier 4	0.6 Sp. 5
<i>I_s</i> (in ⁴)	13,200	13,200	10,500	10,500	10,500	10,500	10,500	18,900	13,200
<i>I_c</i> (n) (in ⁴)	31,087	—	26,380	—	—	—	26,380	—	31,087
<i>I_c</i> (3n) (in ⁴)	22,554	—	19,276	—	—	—	19,276	—	22,554
<i>S_s</i> (in ³)	720	720	581	581	581	581	581	1035	720
<i>S_c</i> (n) (in ³)	1008	—	831	—	—	—	831	—	1008
<i>S_c</i> (3n) (in ³)	905	—	750	—	—	—	750	—	905
<i>φ</i> (K/ft.)	0.98	1.41	0.94	1.39	1.38	1.40	0.96	1.43	1.00
<i>M_℄</i> (K)	37	1125	544	852	162	640	410	1731	609
<i>s_℄</i> (K/ft.)	0.45	—	0.45	—	—	—	0.45	—	0.45
<i>M_{s_℄}</i> (K)	35	—	318	—	—	—	250	—	307
<i>M_℄</i> (K)	413	453	752	417	198	410	736	652	832
<i>M</i> (Imp) (K)	115	113	164	103	54	101	162	146	188
<i>S₃(M_℄+1)</i> (K)	880	943	1527	867	420	852	1497	1330	1700
<i>M_a</i> (K)	1238	2688	3106	2235	757	1940	2804	3979	3401
<i>M_u</i> (K)	4324	—	3645	—	—	—	3942	—	4858
<i>f_{s_℄}</i> non-comp(k.s.i.)	0.6	18.8	11.2	17.6	3.3	13.2	8.5	20.1	10.2
<i>f_{s_℄}</i> (comp) (k.s.i.)	0.5	—	5.1	—	—	—	4.0	—	4.1
<i>f_{s₃}</i> (k+1) (k.s.i.)	10.5	15.7	22.1	17.9	8.7	17.6	21.6	15.4	20.3
<i>f_s</i> (Overload) (k.s.i.)	11.6	34.5	38.4	35.5	12.0	30.8	34.1	35.5	34.6
<i>f_s</i> (Total) (k.s.i.)	—	44.9	—	46.2	15.6	40.0	—	46.2	—
<i>VR</i> (K)	65	—	65	—	—	—	67	—	64

* Compact, Braced Section

** Non-compact Section

*** Entire Span treated as negative moment region as total negative moments are larger than total positive moments.

INTERIOR GIRDER REACTION TABLE

	W. Abut.	Pier 1	Pier 2	Pier 3	Pier 4	E. Abut.
<i>R_℄</i> (K)	19.1	134.5	113.2	98.3	170.9	51.8
<i>R_℄</i> (K)	44.3	59.4	58.7	57.6	69.2	48.3
<i>Imp.</i> (K)	12.3	14.8	14.4	14.2	15.5	11.0
<i>R</i> (Total) (K)	75.7	208.7	186.3	170.1	255.6	111.1

I_s and *S_s* are the moment of inertia and section modulus of the steel section used in computing *f_s* (Total & Overload).
I_c (n) and *S_c* (n) are the moment of inertia and section modulus of the composite section used in computing stresses due to Live Load.
I_c (3n) and *S_c* (3n) are the moment of inertia and section modulus of the composite section used in computing stresses due to superimposed Dead Loads. (See AASHTO 10.38)
VR is the maximum Live Load + Impact shear range in span.
M_a (Applied Moment) = 1.3(*M_℄* + *M_{s_℄}* + *S₃*(*M_℄* + *M* (Imp))).
The Plastic Moment capacity (*M_u*) is computed according to AASHTO 10.48.1 and 10.50.1.1.
f_s (Overload) is the sum of the stresses due to *M_℄* + *M_{s_℄}* + *S₃*(*M_℄* + *M* (Imp)).
f_s (Total) is the sum of the stresses due to 1.3(*M_℄* + *M_{s_℄}* + *S₃*(*M_℄* + *M* (Imp))).

Corporate License Number 184-001-084

STRUCTURAL STEEL DETAILS

EASTBOUND HARRISON AVENUE
OVER UP & CC&P RAILROAD
F.A.P. ROUTE 0525
SECTION 02-00518-00-BR
ROCKFORD, ILLINOIS
STATION 95+72.00
STRUCTURE NO. 101-6111

© Copyright Hanson Professional Services Inc. 2006



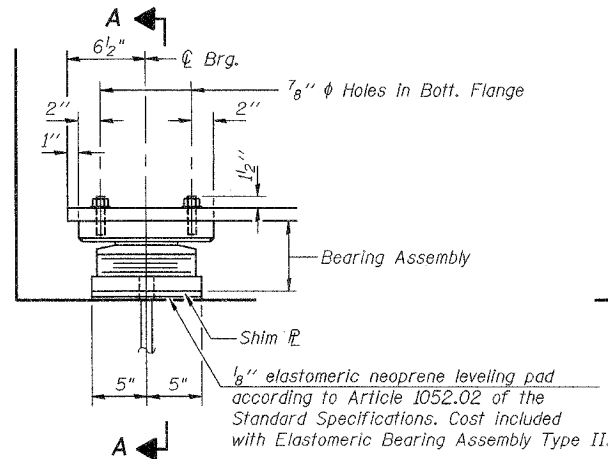
03R1751

DATE 12/14/06

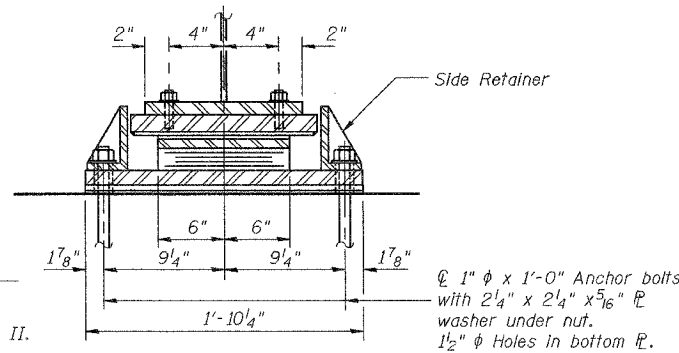
9:51:02 AM
 12/14/2006 09:51 AM
 I:\03\proj\03R1751\Struct\Sheet\East_Burnt\02-00518-00-BR-Str-Def.dwg

LAYOUT	SLG	02/01/06
DRAWN	MEM	07/24/06
REVIEWED	FLN	09/04/06

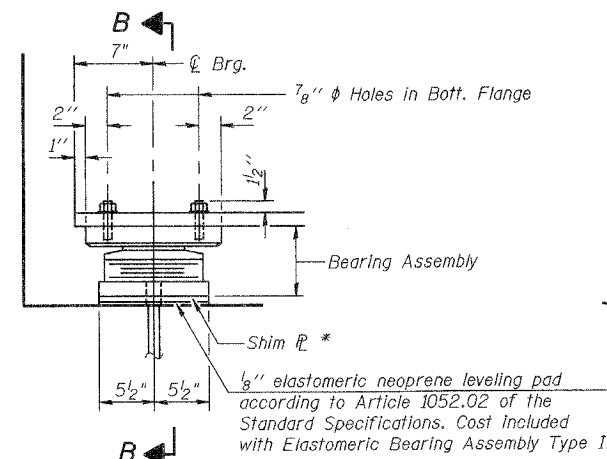
ROUTE NO.	SECTION	COUNTY	ISSUE	SHEET	SHEET NO.
FAP 0525		WINNEBAGO	157	83	50 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT	
• 02-00518-00-BR					



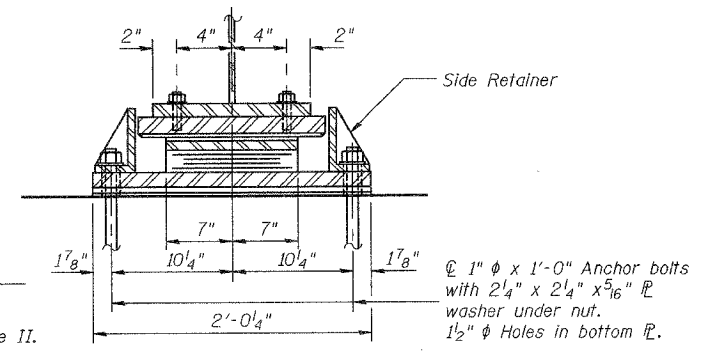
ELEVATION AT W. ABUT.



SECTION A-A



ELEVATION AT E. ABUT.

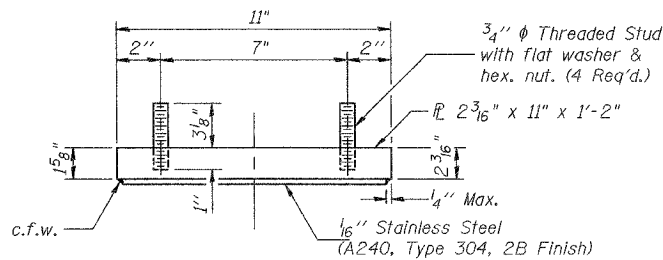


SECTION B-B

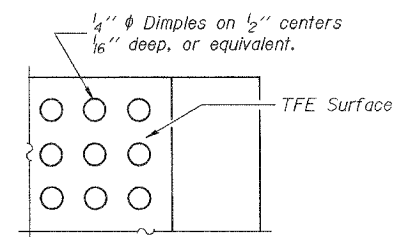
TYPE II ELASTOMERIC EXP. BRG. AT W. ABUT.

* Contractor shall provide additional steel shim(s) as required beneath Beam 5 at East Abutment to result in an elevation difference between top of Beam 5 and top of Beam 6 of 1/4". (Beam 5 is higher). Total estimated shim height = 1/4". (Contractor to field verify) Shim plate(s) shall be the full dimension of the bottom bearing plate. Cost of shims is included with Elastomeric Bearing Assembly Type II.

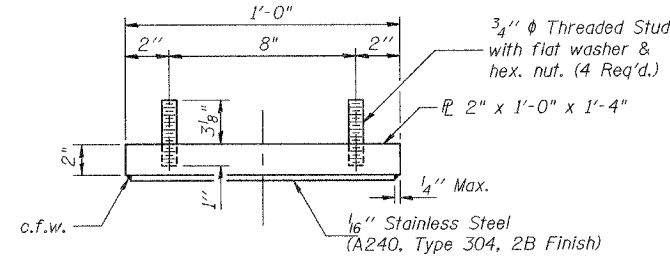
TYPE II ELASTOMERIC EXP. BRG. AT E. ABUT.



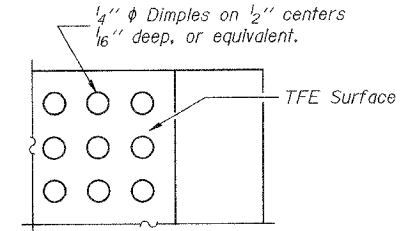
W. ABUT. TOP BEARING ASSEMBLY



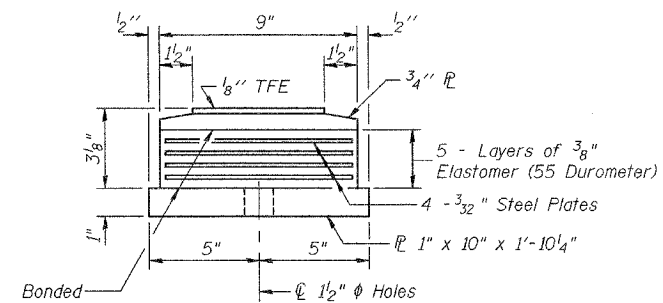
W. ABUT. PLAN-TFE SURFACE



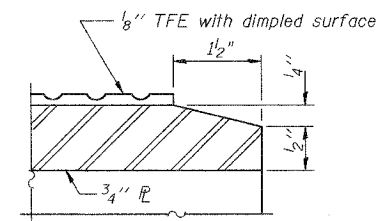
E. ABUT. TOP BEARING ASSEMBLY



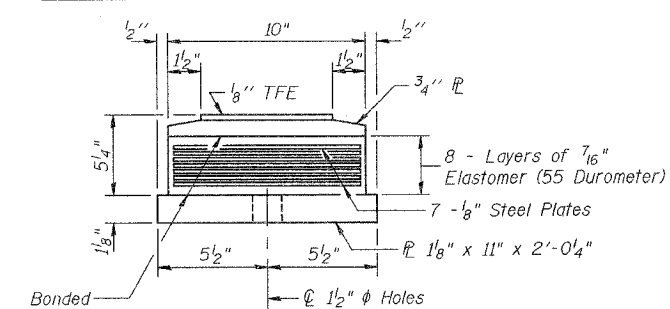
E. ABUT. PLAN-TFE SURFACE



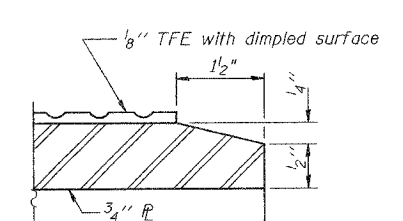
W. ABUT. BOTTOM BEARING ASSEMBLY



W. ABUT. SECTION THRU TFE



E. ABUT. BOTTOM BEARING ASSEMBLY



E. ABUT. SECTION THRU TFE

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type II	Each	12

Corporate License Number 184-001-084

BEARING DETAILS

**EASTBOUND HARRISON AVENUE
OVER UP & CC&P RAILROAD
F.A.P. ROUTE 0525
SECTION 02-00518-00-BR
ROCKFORD, ILLINOIS
STATION 95+72.00
STRUCTURE NO. 101-6111**

© Copyright Hanson Professional Services Inc. 2006



JOB NO. 03R1751

DATE 12/14/06

NOTES

The 1/8" TFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

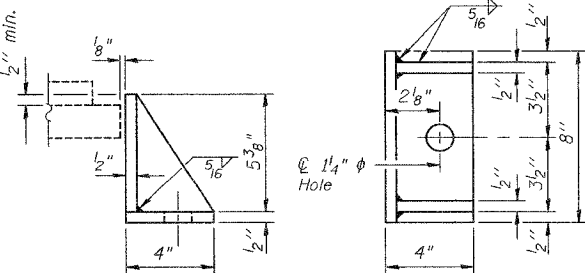
Bonding of 1/8" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

All structural steel bearing plates for Elastomeric Bearing Assemblies shall be AASHTO M270, Grade 50.

Anchor bolts shall be high strength bolts (AASHTO M164, Type 1 or 2).

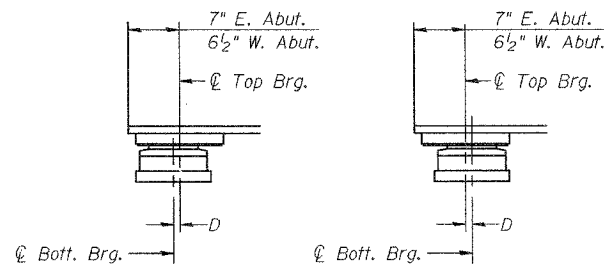
See Sheet 29 of 50 for Anchor Bolt Installation.

95157 AM 12/14/06
 12/3/2006 09:51 AM
 H:\03\05\031751\Structural\Sheet\East Bound\S-026-EB-BearingDetail.dgn
 LAYOUT: JKR 12/14/06
 DRAWN: MCM/KRP 07/24/06
 REVIEWED: FLN 08/05/06



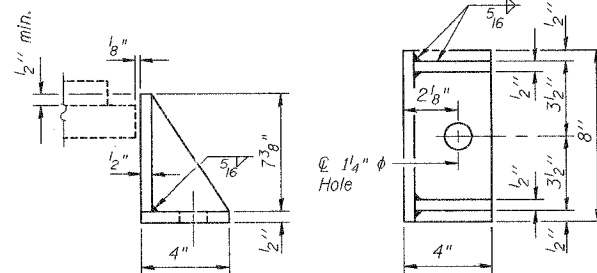
W. ABUT. SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Structural Steel.



SETTING ANCHOR BOLTS AT EXP. BRG.

D=1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

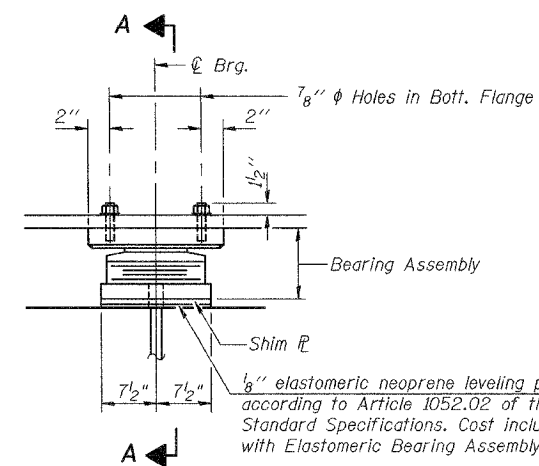


E. ABUT. SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Structural Steel.

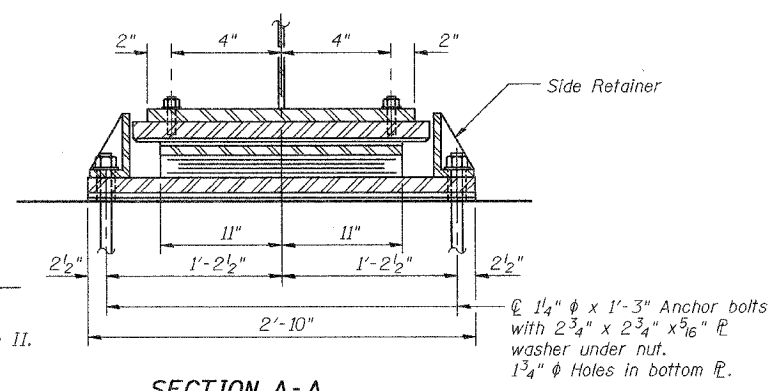
ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET NO.
FAP 0525		WINNEBAGO	157	84
FED. ROAD DIST. NO. 7		ILLINOIS		FED. AID PROJECT
• 02-00518-00-BR				

SHEET NO. 27
50 SHEETS

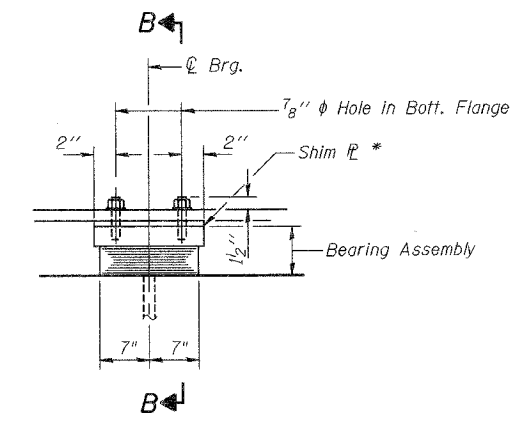


ELEVATION AT PIER 1

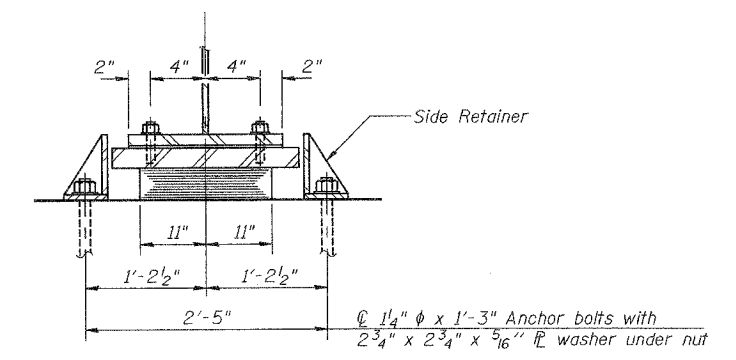
TYPE II ELASTOMERIC EXP. BRG. AT PIER 1



SECTION A-A

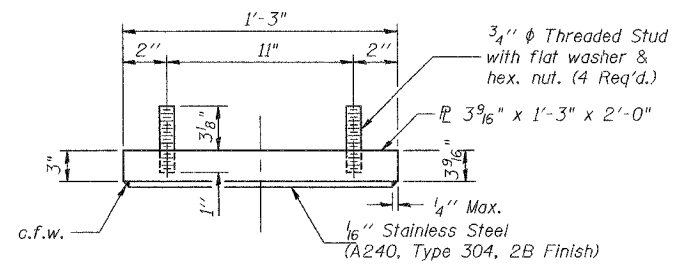


ELEVATION AT PIER 2

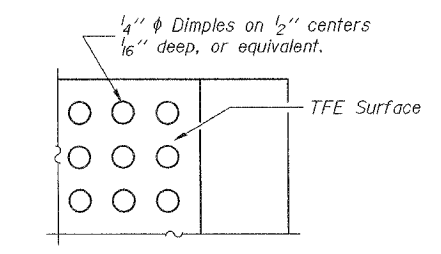


SECTION B-B

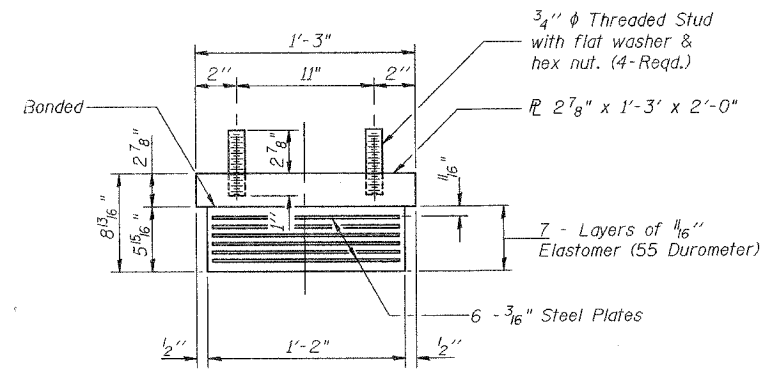
* Contractor shall provide additional steel shim(s) as required beneath Beam 4 at Pier 2 to result in an elevation difference between top of Beam 3 and top of Beam 4 of 7/16". (Beam 4 is higher). Total estimated shim height = 7/16". (Contractor to field verify) Shim plate(s) shall be the full dimension of the top bearing plate. Cost of shims is included with Elastomeric Bearing Assembly Type I.



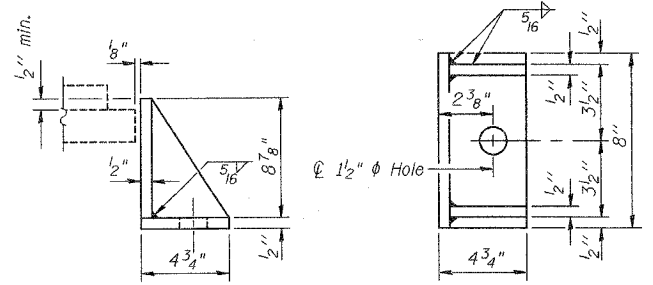
PIER 1 TOP BEARING ASSEMBLY



PIER 1 PLAN-TFE SURFACE

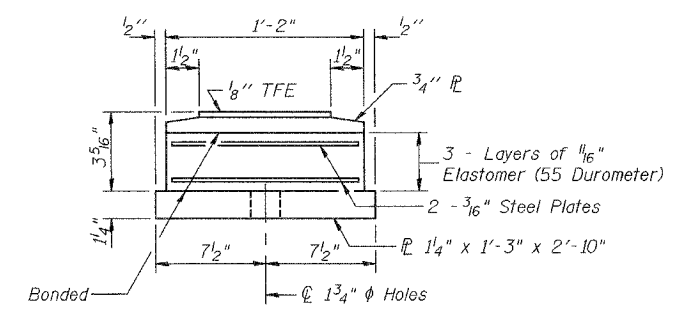


PIER 2 BEARING ASSEMBLY

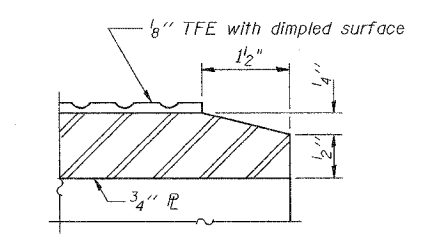


PIER 2 SIDE RETAINER

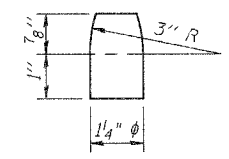
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Structural Steel.



PIER 1 BOTTOM BEARING ASSEMBLY

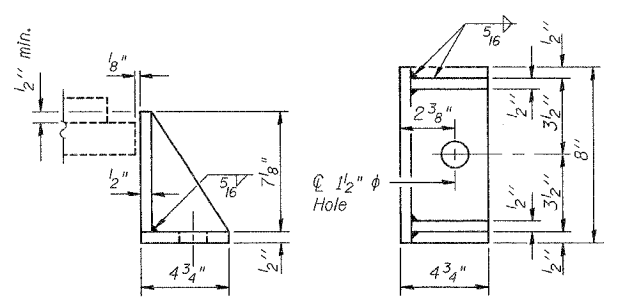


PIER 1 SECTION THRU TFE



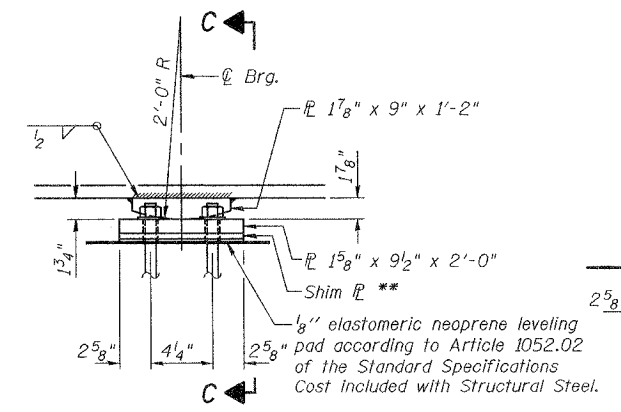
PINTELE

TYPE I ELASTOMERIC EXP. BRG. AT PIER 2



PIER 1 SIDE RETAINER

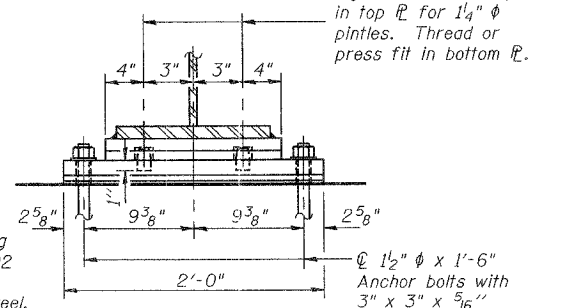
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Structural Steel.



ELEVATION AT PIER 3

** Contractor shall provide additional steel shim(s) as required beneath Beam 1 at Pier 3 to result in an elevation difference between top of Beam 1 and top of Beam 4 of 3/16". (Beam 1 is higher). Total estimated shim height = 3/16". (Contractor to field verify) Contractor shall provide additional steel shim(s) as required beneath Beam 2 at Pier 3 to result in an elevation difference between top of Beam 2 and top of Beam 4 of 9/16". (Beam 2 is higher). Total estimated shim height = 9/16". (Contractor to field verify) Contractor shall provide additional steel shim(s) as required beneath Beam 3 at Pier 3 to result in an elevation difference between top of Beam 3 and top of Beam 4 of 1/2". (Beam 3 is higher). Total estimated shim height = 1/2". (Contractor to field verify) Shim plate(s) shall be the full dimension of the bottom bearing plate. Cost of shims is included with Structural Steel.

FIXED BEARING AT PIER 3



SECTION C-C

NOTES

The 1/8" TFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces. Bonding of 1/8" TFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer. All structural steel bearing plates and pintles for low profile fixed bearings and Elastomeric Bearing Assemblies shall be AASHTO M270, Grade 50. Anchor bolts shall be high strength bolts (AASHTO M164, Type 1 or 2). Shim plates shall not be placed under Type I Elastomeric Bearing Assembly. Anchor bolts at fixed bearings may be built into the masonry. See Sheet 29 of 50 for Anchor Bolt Installation. See Sheet 26 of 50 for Setting Anchor Bolts at Expansion Bearing detail.

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	6
Elastomeric Bearing Assembly Type II	Each	6

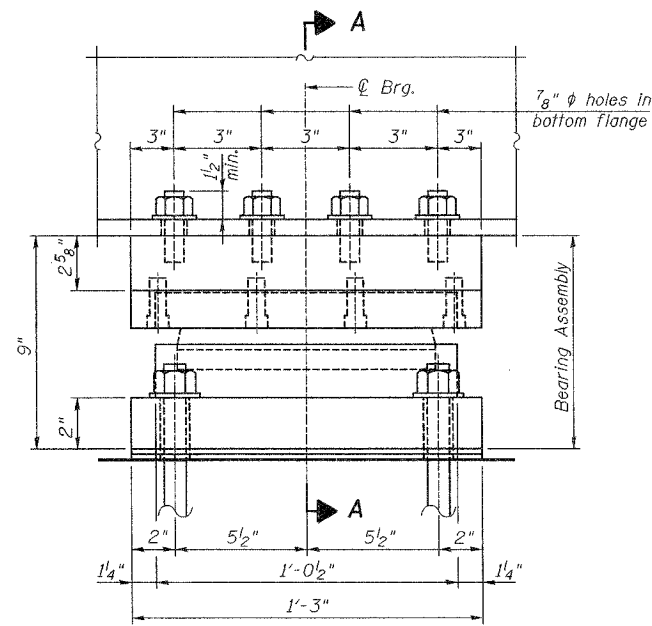
BEARING DETAILS

**EASTBOUND HARRISON AVENUE
OVER UP & CC&P RAILROAD
F.A.P. ROUTE 0525
SECTION 02-00518-00-BR
ROCKFORD, ILLINOIS
STATION 95+72.00
STRUCTURE NO. 101-6111**

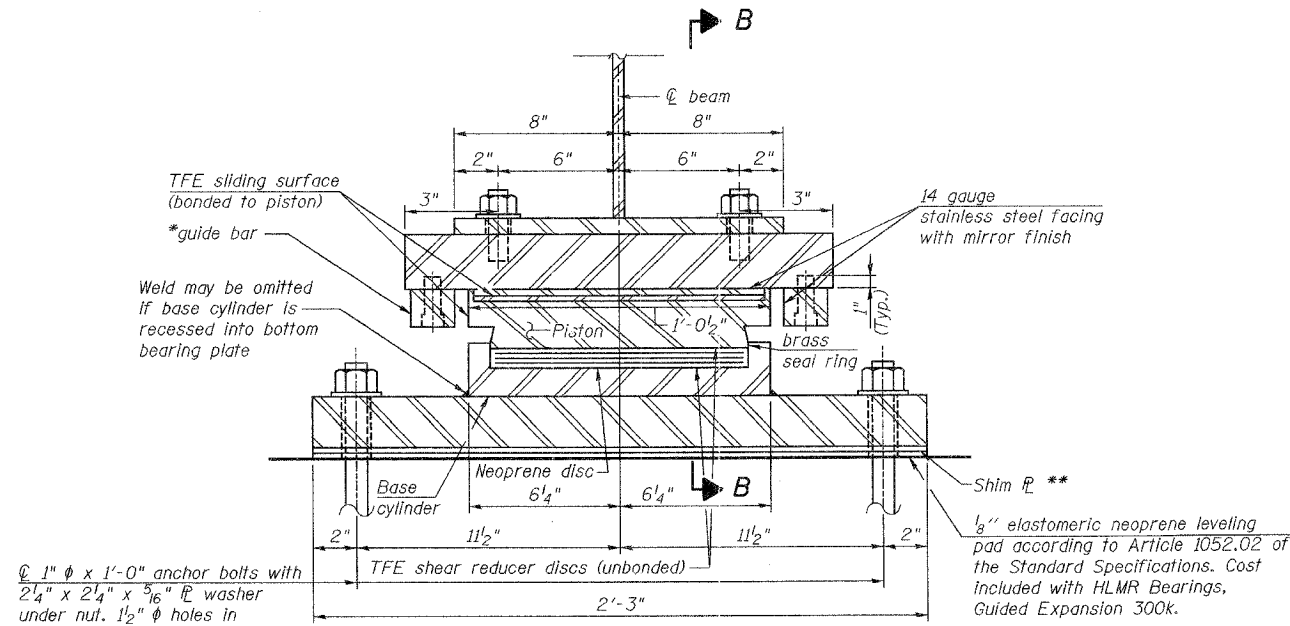
© Copyright Hanson Professional Services Inc. 2006
HANSON
JOB NO. 03R1751
DATE 12/14/06

9:52:30 AM 12/13/06
 I:\13\2006\0952 AM
 1\03\103\03R1751\Struct\Sheet\East\Bearing\02-EB-Bear\Der\Per.dgn
 LAYOUT JMR 12/13/06
 DRAWN MMJ/KRC/12/14/06
 REVIEWED FLN 08/05/06

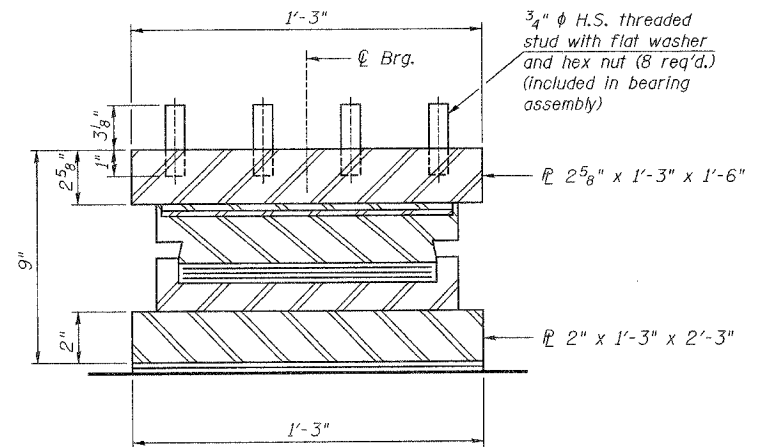
ROUTE NO.	SECTION	COUNTY	LEASING	SHEET	SHEET NO.
FAP 0525		WINNEBAGO	157	85	28
FED. ROAD DIST. NO. 7					50 SHEETS
ILLINOIS FEDERAL PROJECT					
02-00518-00-BR					



ELEVATION AT PIER 4



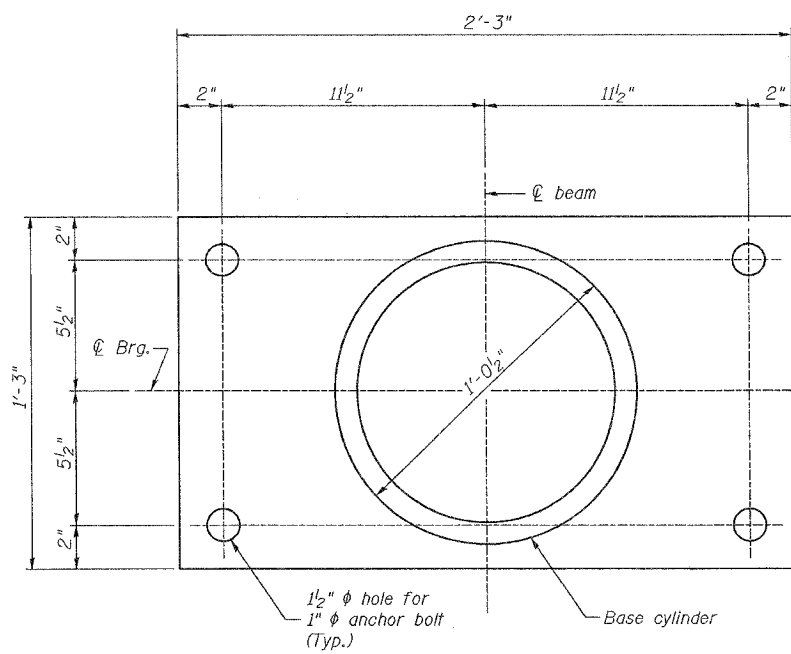
SECTION A-A



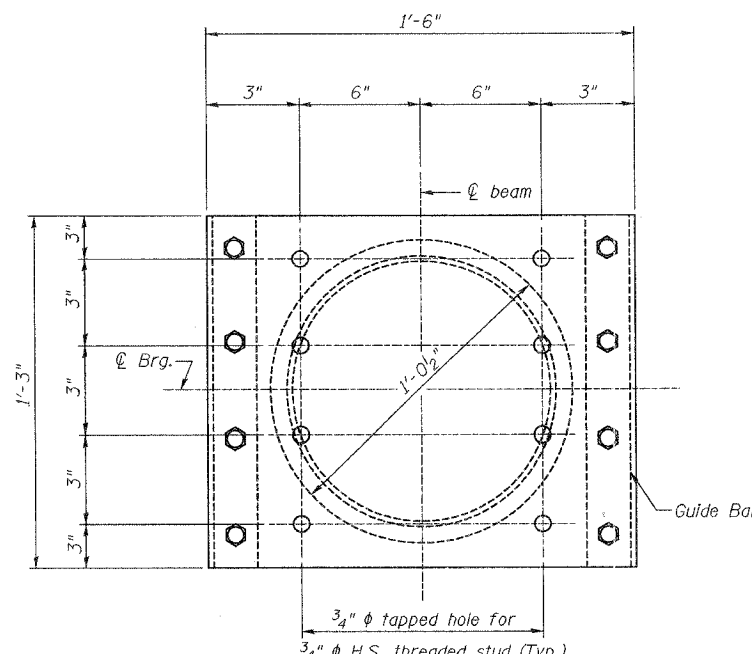
SECTION B-B

(Guide Bar omitted for clarity)

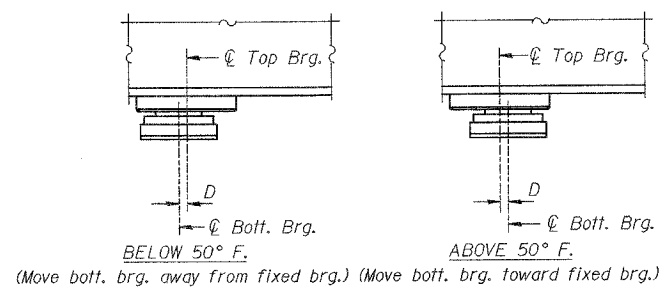
** Contractor shall provide additional steel shim(s) as required beneath Beam 4 at Pier 4 to result in an elevation difference between top of Beam 4 and top of Beam 5 of 3/16". (Beam 4 is higher). Total estimated shim height = 3/16". (Contractor to field verify) Shim plate(s) shall be the full dimension of the bottom bearing plate. Cost of shims is included with Floating Bearings, Guided Expansion 300k.



BOTTOM BEARING & BASE CYLINDER PLAN



TOP BEARING & PISTON PLAN



SETTING ANCHOR BOLTS AT EXP. BRG.

D=1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50° F.

* As alternates to the bolted connection shown, the guide bars may be connected to the top bearing plate by groove welds or the guide bars and top bearing plate may be fabricated as a single piece.

Bearing Data	
Vertical Design Load	251 K
Total Required Movement	1 3/8"

BILL OF MATERIAL

Item	Unif	Total
HLMR Bearings, Guided Expansion 300k	Each	6

NOTES

The plates of the Bearing Assembly shall be AASHTO M270, Grade 50. For Anchor Bolt Installation details see Sheet 29 of 50. The Bearing Assembly shall be capable of transmitting 20% of the vertical design load as a horizontal force in the direction normal to the guide bars. Shim plate(s) shall be the full dimension of the bottom bearing plate. Cost of shims is included with Floating Bearings, Guided Expansion 300k. Anchor Bolts shall be high strength bolts (AASHTO M164, Type 1 or 2).

GUIDED EXPANSION POT BEARING AT PIER 4

Corporate License Number 184-001-084

BEARING DETAILS

EASTBOUND HARRISON AVENUE
OVER UP & CC&P RAILROAD
F.A.P. ROUTE 0525
SECTION 02-00518-00-BR
ROCKFORD, ILLINOIS
STATION 95+72.00
STRUCTURE NO. 101-6111

© Copyright Hanson Professional Services Inc. 2006



JOB NO.
03R1751
DATE
12/14/06

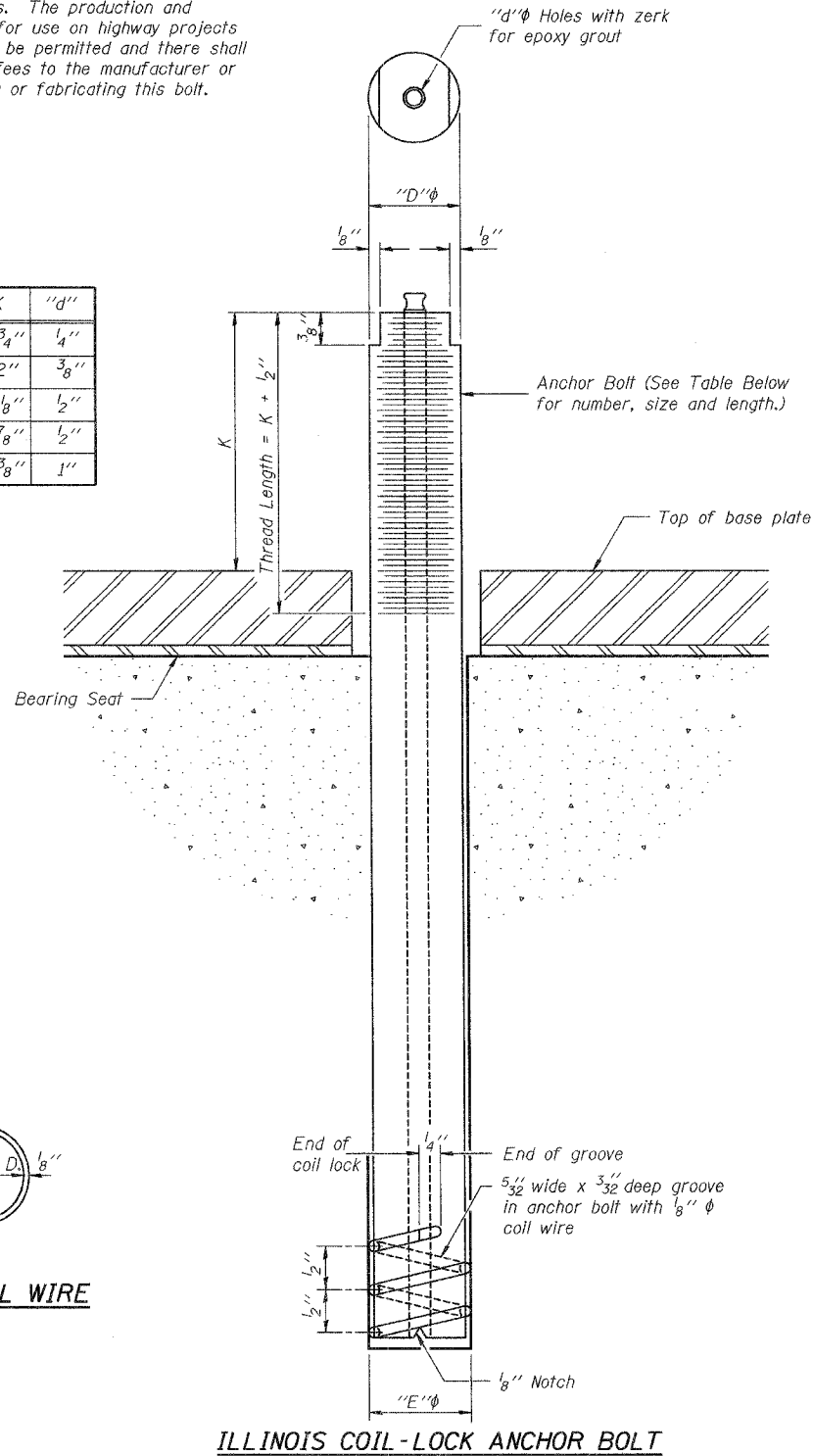
15:28 PM 12/14/06
 12:13:00.06:05:51 PM
 P:\03\0518-00\Bearing\Sheet\East_Bearing_S-02B-EB_PotBearing.dgn

LAYOUT	JRE	12/14/06
DRAWN	MMW	12/14/06
REVIEWED	FLN	08/02/06

ROUTE NO.	SECTION	COUNTY	POST MILES	SHEET	SHEET NO. 29
FAP 0525		WINNEBAGO	157	86	50 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		
• 02-00518-00-BR					

The Illinois Coil-Lock Anchor Bolt is a proprietary item which is the property of the Illinois Department of Transportation. Use, reproduction or disclosure without express written permission is prohibited and protected under Federal copyright laws. The production and the fabrication of this bolt for use on highway projects in the State of Illinois shall be permitted and there shall be no incurred charges or fees to the manufacturer or the fabricator for producing or fabricating this bolt.

D	E	H	K	"d"
1"	1 1/8"	1 3/16"	1 3/4"	1/4"
1 1/4"	1 3/8"	1 1/16"	2"	3/8"
1 1/2"	1 5/8"	1 5/16"	2 1/8"	1/2"
2"	2 1/8"	1 13/16"	2 7/8"	1/2"
2 1/2"	2 5/8"	2 5/16"	3 3/8"	1"



MATERIALS FOR ILLINOIS COIL-LOCK ANCHOR BOLT

The anchor bolt shall be fabricated from cold drawn or hot finished seamless carbon steel mechanical tubing conforming to ASTM A 519, Grade 1026, CW and supplied with hexagonal nuts and cut washers.
 The coil wire shall be made of any suitable soft steel wire.
 The finished anchor bolt shall be cleaned of rust and other foreign materials and wrapped or packaged to prevent contamination until they are installed.
 The epoxy grout shall be a two-component, epoxy resin bonding system conforming to ASTM C 881, Type I, Grade 1 and of a Class suitable for the temperature at installation.

INSTALLATION PROCEDURE FOR THE ILLINOIS COIL-LOCK ANCHOR BOLT

1. With the coil wire in place, the bolt shall be inserted into the hole and turned clockwise to a snug fit in the hole. Nut and washer shall be placed on the bolt. The nut shall be tensioned until the steel base plates are held securely to the concrete bearing seat.
2. Epoxy grout shall be pumped through the zerk fitting with a pressure gun. Pumping shall continue until the epoxy overflows the hole around the bolt shank. After pumping is discontinued, excess epoxy shall be immediately wiped off.

ALTERNATE ANCHOR BOLTS

The Contractor may use, at his option, the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures.
 The capsule or the adhesive cartridge type anchor rods shall be a two part system composed of:
 1. A threaded rod stud with nut and washer of the type specified.
 2. A sealed glass capsule or a sealed glass adhesive cartridge containing premeasured amounts of the adhesive chemical.

Location	Type	Size (inch diameter)	Length (inches)*	Quantity
West Abutment	A325	1	12	12
Pier #1	A325	1 1/4	15	12
Pier #2	A325	1 1/4	15	12
Pier #3	A325	1 1/2	18	24
Pier #4	A325	1	12	24
East Abutment	A325	1	12	12

ASTM F 1554 Grade 105, ASTM A 449 and AASHTO M 314 Grade 105 anchor bolts may be substituted for the anchor bolts shown above.

* Lengths shown are the required total lengths for the Illinois Coil or cast-in-place headed anchor bolts. The required total length for the sealed capsule alternate anchor bolts shall be according to the manufacturer's recommendations.

NOTES

Holes in the masonry for anchor bolts shall be drilled through the base plates to the diameter and depth shown or according to the manufacturer's recommendation after beams or girders have been erected and adjusted.
 Prior to setting the bolts, the holes shall be dry and all dust and loose particles shall be removed by the use of compressed air or vacuuming.
 The anchor bolts, furnished and installed and including the epoxy grout or capsules shall be paid for at the contract unit price per each for Anchor Bolts, of the diameter specified.

PLAN-COIL WIRE

ILLINOIS COIL-LOCK ANCHOR BOLT

9:53:27 AM
 1/13/2006 09:53 AM
 I:\03\00518\00\BR\Struct\Sheet\East\Bolt\EB-A-Bolt.dgn
 LAYOUT: MCM 09/07/05
 DRAWN: MCM/JJR 07/24/05
 REVIEWED: FLN 08/05/06

Corporate License Number 184-001-084

ANCHOR BOLT DETAILS

EASTBOUND HARRISON AVENUE
 OVER UP & CC&P RAILROAD
 F.A.P. ROUTE 0525
 SECTION 02-00518-00-BR
 ROCKFORD, ILLINOIS
 STATION 95+72.00
 STRUCTURE NO. 101-6111

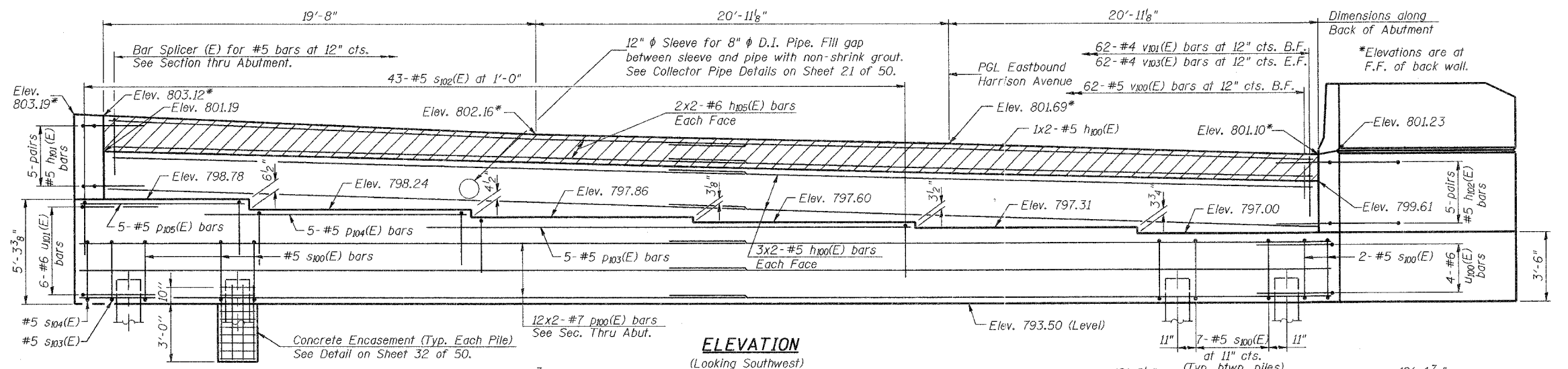
© Copyright Hanson Professional Services Inc. 2006



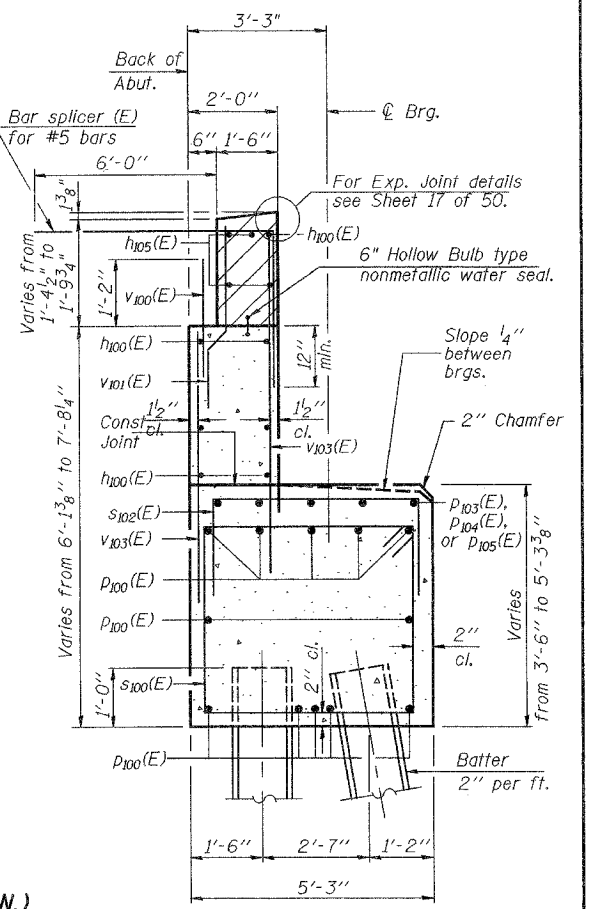
JOB NO. 03R1751

DATE 12/14/06

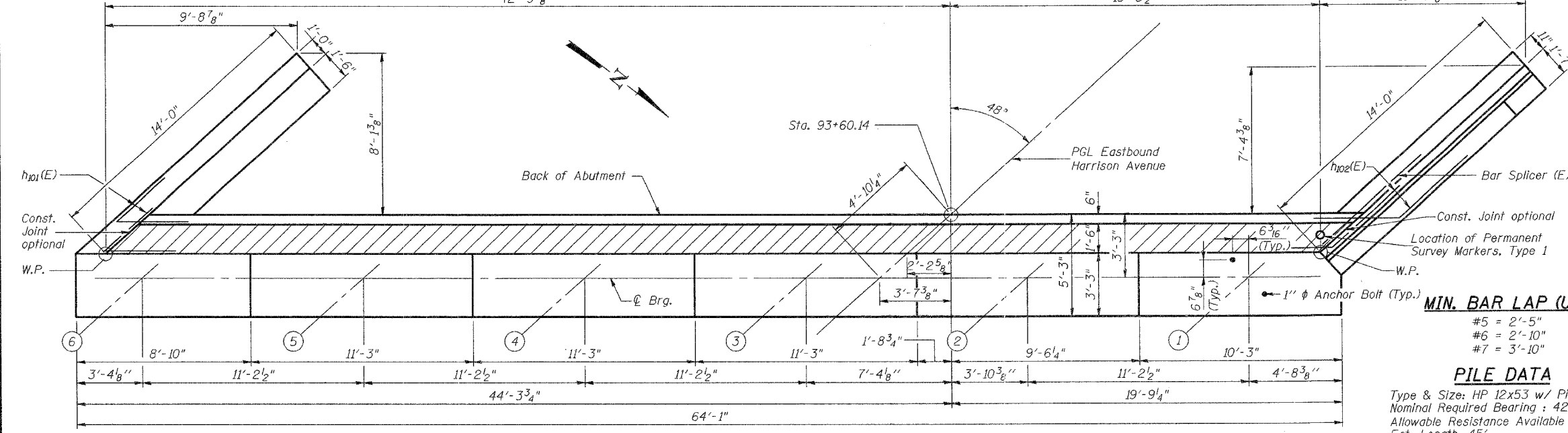
ROUTE NO.	SECTION	COUNTY	SHEET	SHEET	SHEET NO.
FAP 0525		WINNEBAGO	157	87	50 SHEETS
PROJECT NO. 02-00518-00-BR					



ELEVATION
(Looking Southwest)



SEC. THRU ABUT.
(Dimensions at Right Angles)



TOP VIEW

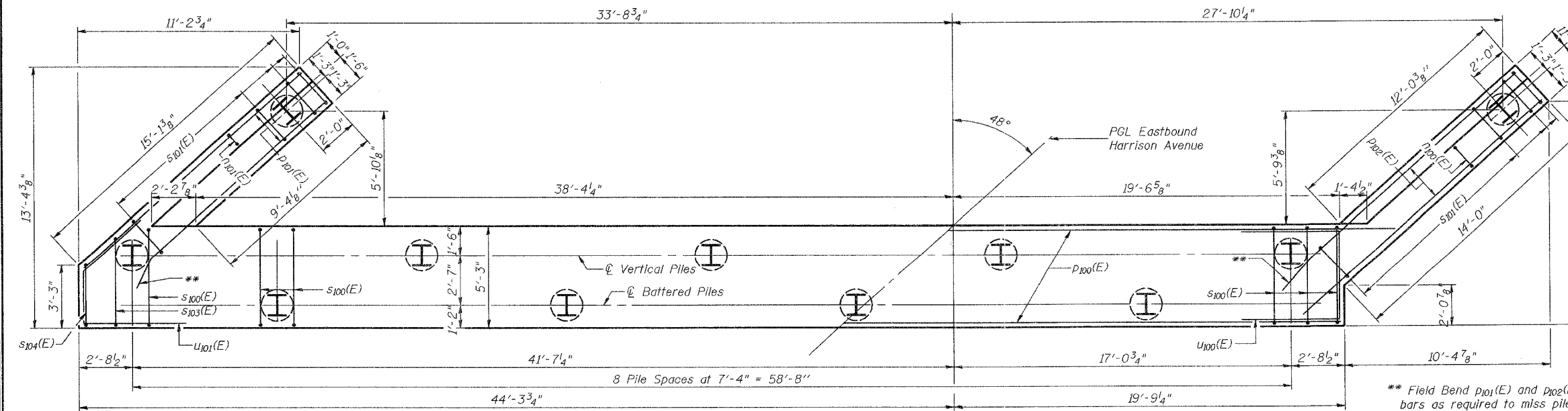
MIN. BAR LAP (U.N.)
#5 = 2'-5"
#6 = 2'-10"
#7 = 3'-10"

PILE DATA

Type & Size: HP 12x53 w/ Pile Shoes
Nominal Required Bearing : 420 Kips
Allowable Resistance Available : 140 Kips
Est. Length: 45'
No. Required: 10 + 1 Test Pile

NOTES

- Hatched area to be poured after superstructure forms have been removed. Quantity of concrete included with Concrete Superstructure.
- Space reinforcement in cap to miss anchor bolts.
- Four steps monolithically with cap.
- Reinforcement bars designated (E) shall be epoxy coated.
- Quantity of concrete in end post included with Concrete Superstructure.
- Work this Sheet with Sheets 31 & 32 of 50.
- Bars indicated thus 4x2-#5 etc. indicate 4 lines of bars with 2 lengths per line.
- All edges will have 3/4" chamfer unless noted.
- For details of Bar Splicers see Sheet 44 of 50.
- B.F. denotes Back Face.
- F.F. denotes Front Face.
- E.F. denoted Each Face.



PLAN-PILE CAP

Corporate License Number 184-001-084

WEST ABUTMENT

**EASTBOUND HARRISON AVENUE
OVER UP & CC&P RAILROAD
F.A.P. ROUTE 0525
SECTION 02-00518-00-BR
ROCKFORD, ILLINOIS
STATION 95+72.00
STRUCTURE NO. 101-6111**

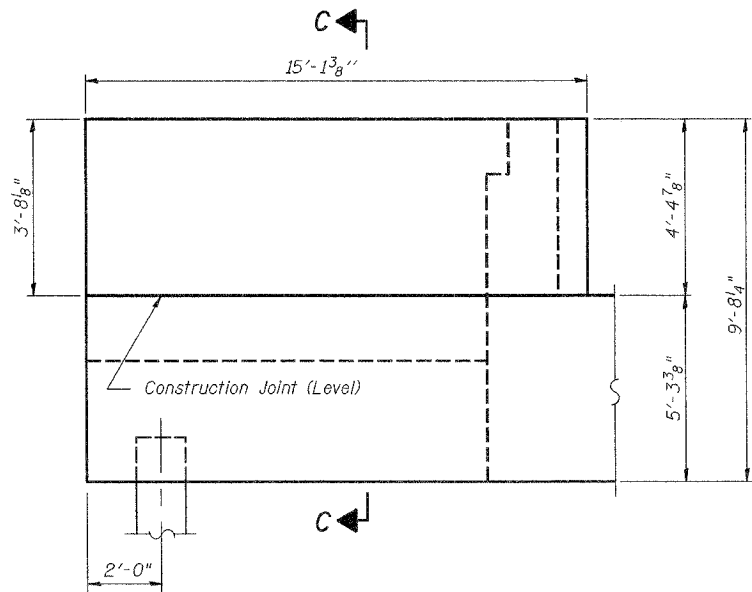
© Copyright Hanson Professional Services Inc. 2005



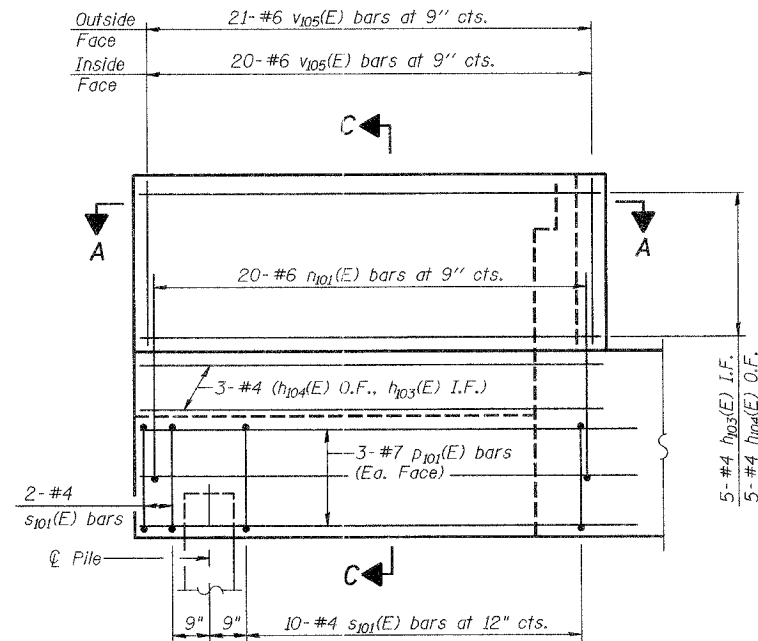
JOB NO.
03R1751
DATE
12/14/06

LAYOUT: 12/14/06
 DRAWN: 12/14/06
 CHECKED: 12/14/06
 REVIEWED: 12/14/06
 10:53:30 AM
 12/15/2006 10:53 AM
 10231050370751StructSheetEastBundS-030-EBWestAbutPlan.dgn

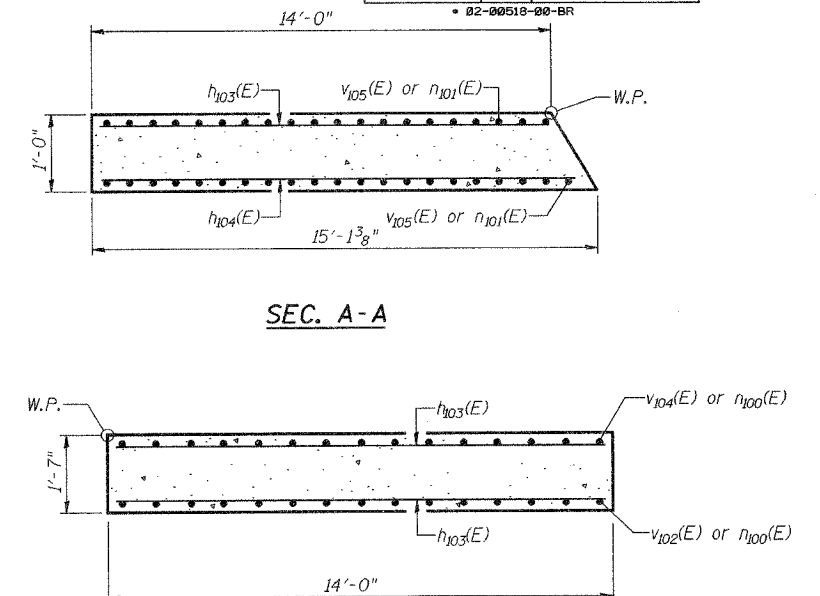
ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET	SHEET NO. 31
FAP 0525		WINNEBAGO	157	88	50 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		
02-00518-00-BR					



SOUTH WING WALL ELEVATION
Showing Dimensions

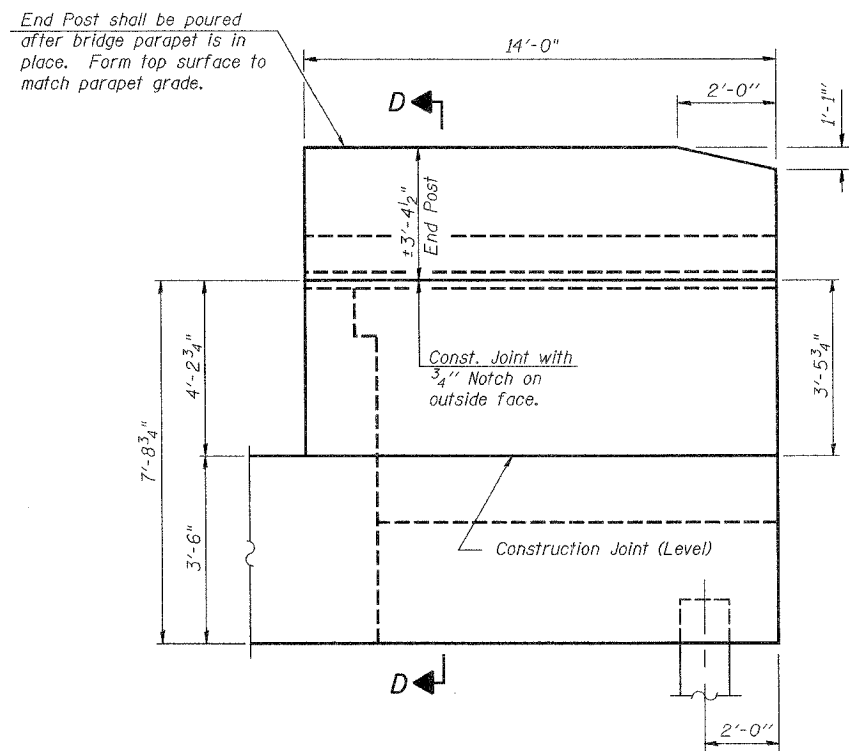


SOUTH WING WALL ELEVATION
Showing Reinforcement

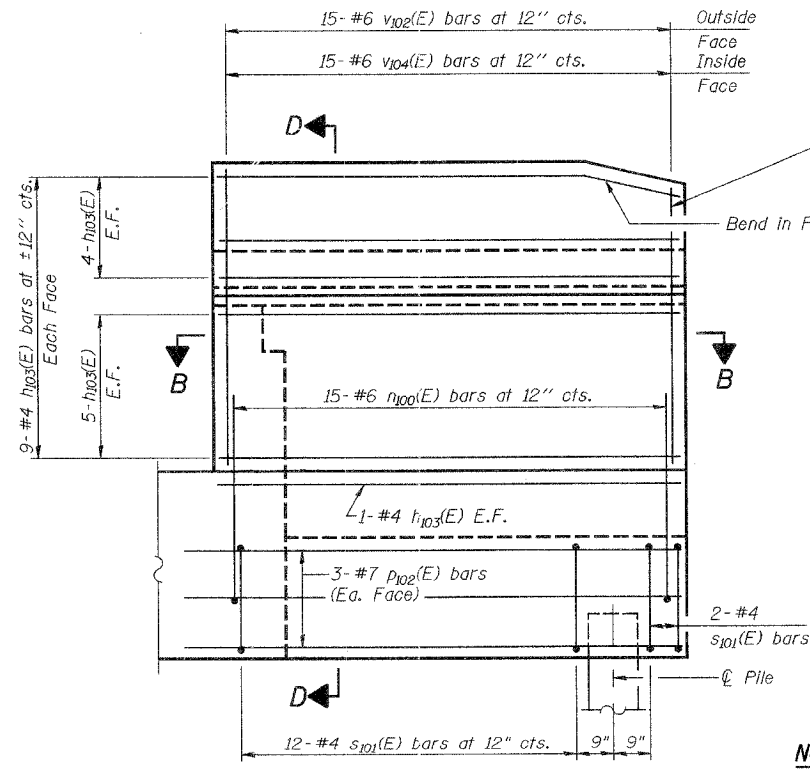


SEC. A-A

SEC. B-B



NORTH WING WALL ELEVATION
Showing Dimensions



NORTH WING WALL ELEVATION
Showing Reinforcement

NOTES

Reinforcement bars designated (E) shall be epoxy coated.
Quantity of concrete in end post included with Concrete Superstructure.
Work this Sheet with Sheets 30 & 32 of 50.
All edges have 3/4" chamfer unless noted.
O.F. denotes Outside Face.
I.F. denotes Inside Face.
E.F. denotes Each Face.

Corporate License Number 184-001-084

WEST ABUTMENT DETAILS

**EASTBOUND HARRISON AVENUE
OVER UP & CC&P RAILROAD
F.A.P. ROUTE 0525
SECTION 02-00518-00-BR
ROCKFORD, ILLINOIS
STATION 95+72.00
STRUCTURE NO. 101-6111**

© Copyright Hanson Professional Services Inc. 2006



JOB NO. 03R1751

DATE 12/14/06

100650 AM 5/30/06
12/13/2006 10:06 AM
1/03/06 03:07:51 StructSheet-East Boun/S-03-EB West/abutDwg

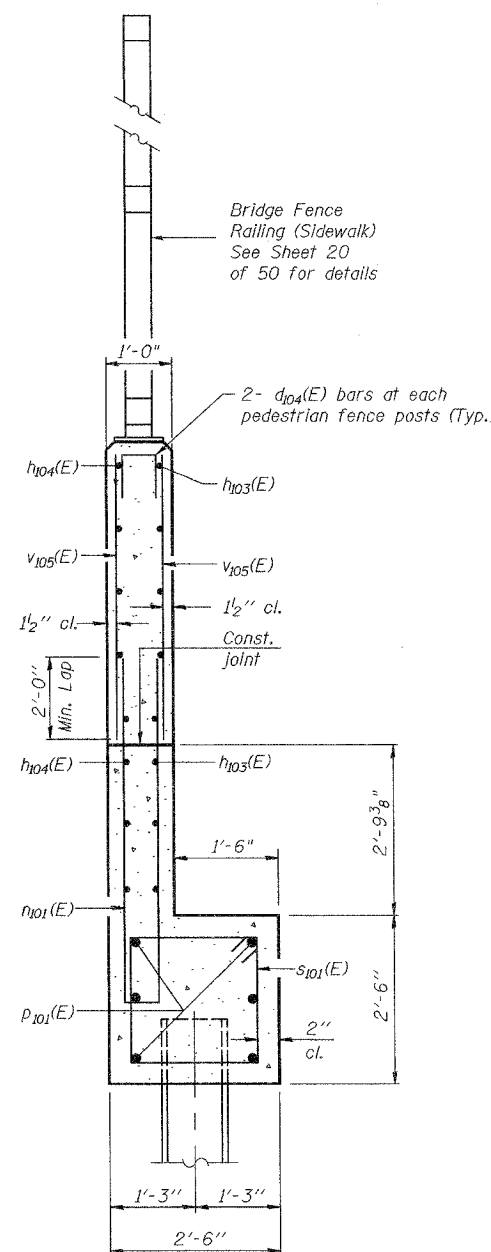
LAYOUT	SMK	5/30/06
DRAWN	MDM/JKR	8/14/06
REVIEWED	JKR	8/14/06

ROUTE NO.	SECTION	COUNTY	FEEL SHEETS	SHEET NO.
FAP 0525	*	WINNEBAGO	157	89
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	
* 02-00518-00-BR				

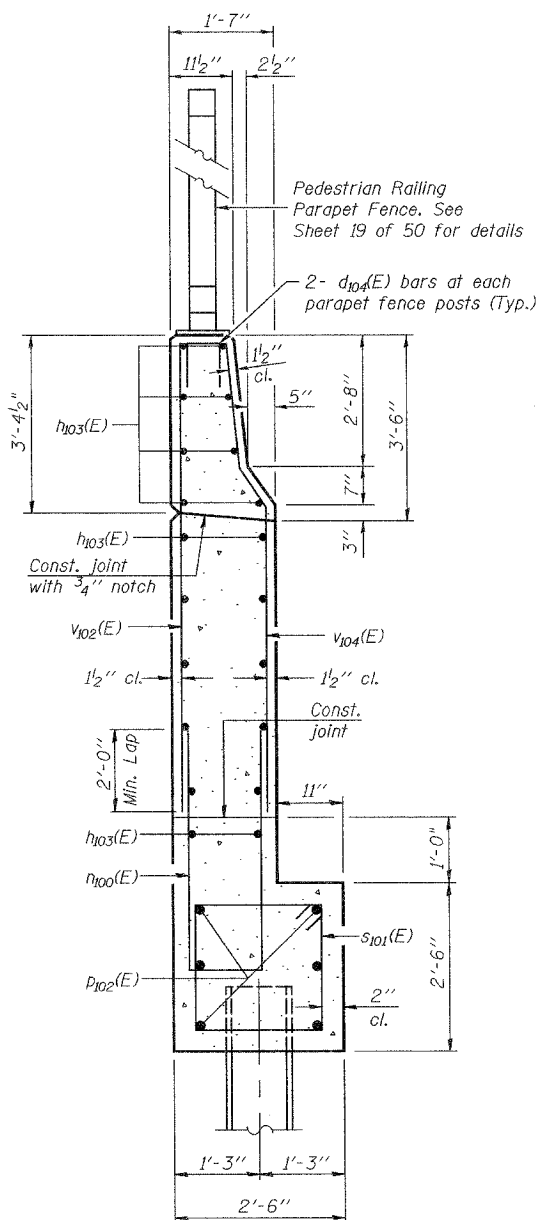
SHEET NO. 32
50 SHEETS

**WEST ABUTMENT
BILL OF MATERIAL**

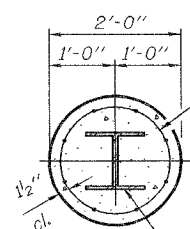
Bar	No.	Size	Length	Shape
d ₁₀₄ (E)	12	#4	2'-1"	□
h ₁₀₀ (E)	14	#5	31'-10"	—
h ₁₀₁ (E)	10	#5	6'-3"	∟
h ₁₀₂ (E)	10	#5	8'-9"	∟
h ₁₀₃ (E)	28	#4	13'-9"	—
h ₁₀₄ (E)	8	#4	14'-10"	—
h ₁₀₅ (E)	8	#6	32'-1"	—
h ₁₀₀ (E)	15	#6	12'-8"	—
h ₁₀₁ (E)	20	#6	14'-9"	—
p ₁₀₀ (E)	24	#7	33'-10"	—
p ₁₀₁ (E)	6	#7	14'-9"	—
p ₁₀₂ (E)	6	#7	16'-3"	—
p ₁₀₃ (E)	5	#5	24'-11"	—
p ₁₀₄ (E)	5	#5	13'-9"	—
p ₁₀₅ (E)	5	#5	8'-6"	—
s ₁₀₀ (E)	58	#5	17'-1"	□
s ₁₀₁ (E)	26	#4	9'-5"	□
s ₁₀₂ (E)	43	#5	9'-11"	□
s ₁₀₃ (E)	1	#5	16'-1"	□
s ₁₀₄ (E)	1	#5	14'-5"	□
u ₁₀₀ (E)	4	#6	13'-9"	□
u ₁₀₁ (E)	6	#6	11'-10"	□
v ₁₀₀ (E)	62	#5	2'-6"	—
v ₁₀₁ (E)	62	#4	3'-7"	—
v ₁₀₂ (E)	15	#6	6'-7"	—
v ₁₀₃ (E)	124	#4	5'-3"	—
v ₁₀₄ (E)	15	#6	6'-7"	—
v ₁₀₅ (E)	41	#6	3'-5"	—
Structure Excavation	Cu. Yd.		117.1	
Concrete Structures	Cu. Yd.		77.5	
Concrete Encasement	Cu. Yd.		3.9	
Reinforcement Bars, Epoxy Coated	Pound		7490	
Furnishing Steel Piles, HP12x53	Foot		450	
Driving Piles	Foot		450	
Test Piles Steel, HP12x53	Each		1	
Pile Shoes	Each		11	
Concrete Sealer	Sq. Ft.		213	
Porous Granular Embankment	Cu. Yd.		120.7	
Anchor Bolts, 1"	Each		12	
Permanent Survey Markers, Type 1	Each		1	



SECTION C-C



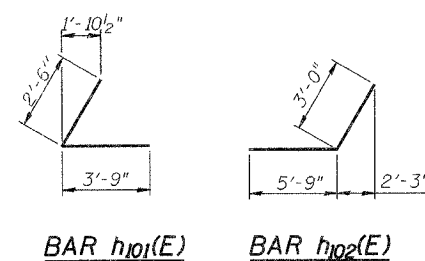
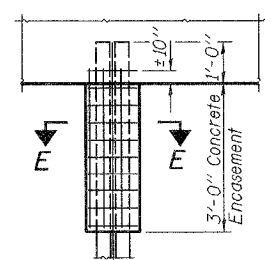
SECTION D-D



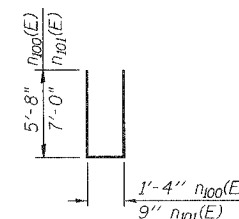
SECTION E-E

Welded wire fabric 6 x 6-W4.0 x W4.0 weighing 58#/100 sq. ft. The cost of Excavation, Concrete Encasement and Reinforcement is included with Concrete Encasement. Forms for Encasement may be omitted when soil conditions permit.

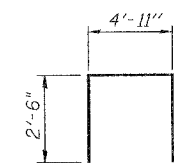
PILE ENCASEMENT DETAIL



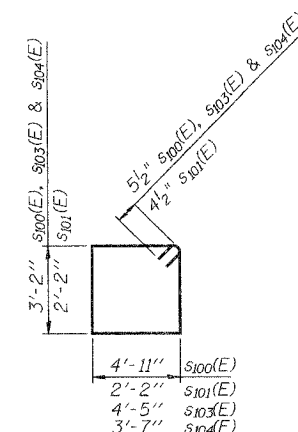
BAR h₁₀₁(E) BAR h₁₀₂(E)



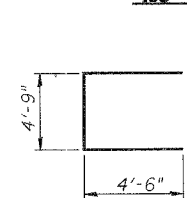
BAR n₁₀₀(E) & BAR n₁₀₁(E)



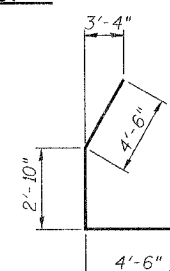
BAR s₁₀₂(E)



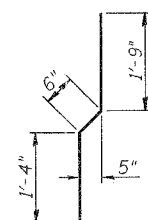
BARS s₁₀₀(E), s₁₀₁(E), s₁₀₃(E) & s₁₀₄(E)



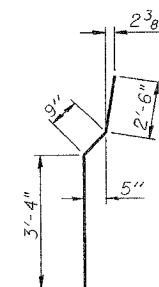
BAR u₁₀₀(E)



BAR u₁₀₁(E)



BAR v₁₀₁(E)



BAR v₁₀₄(E)

NOTES

Reinforcement bars designated (E) shall be epoxy coated.
Work this Sheet with Sheets 30 & 31 of 50.
See Sheet 16 of 50 for Bar d₁₀₄(E) configuration.

Corporate License Number 184-001-084

WEST ABUTMENT DETAILS

EASTBOUND HARRISON AVENUE
OVER UP & CC&P RAILROAD
F.A.P. ROUTE 0525
SECTION 02-00518-00-BR
ROCKFORD, ILLINOIS
STATION 95+72.00
STRUCTURE NO. 101-6111

© Copyright Hanson Professional Services Inc. 2006



JOB NO.

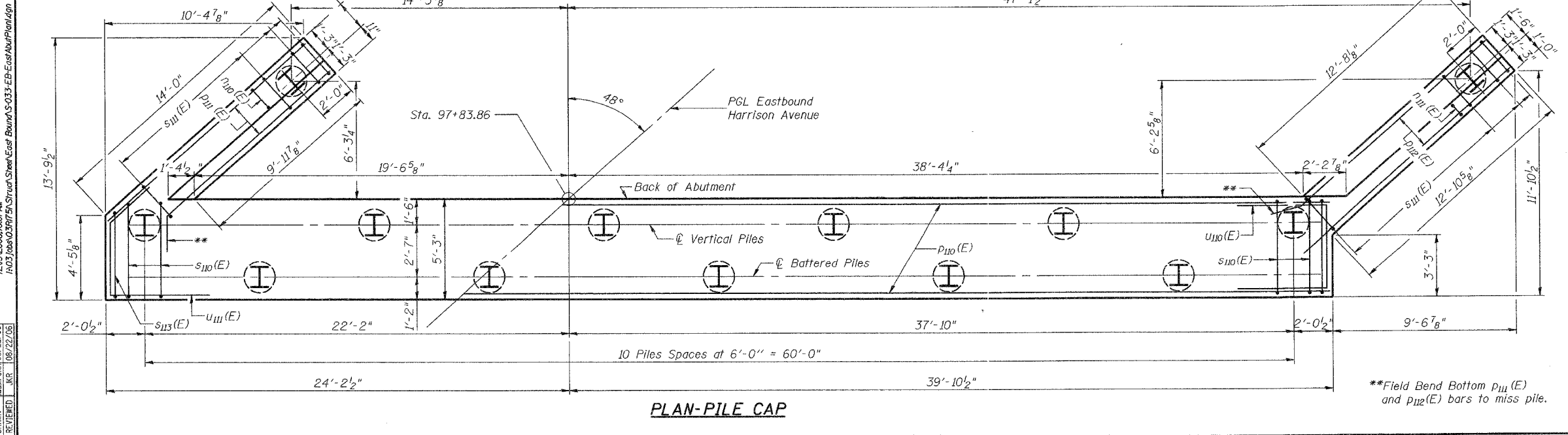
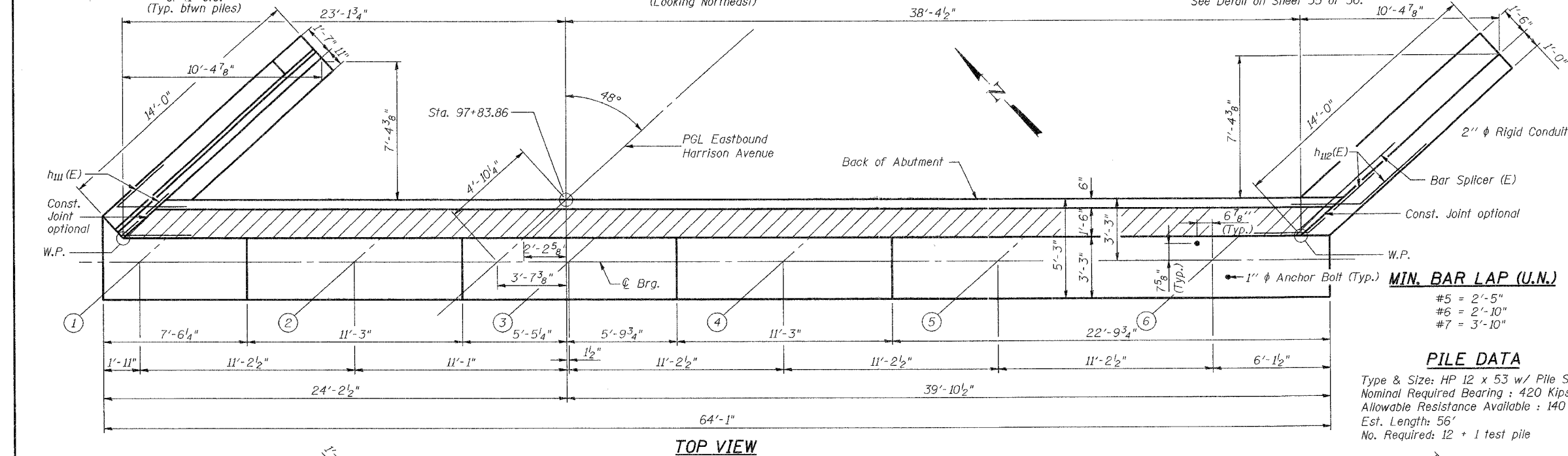
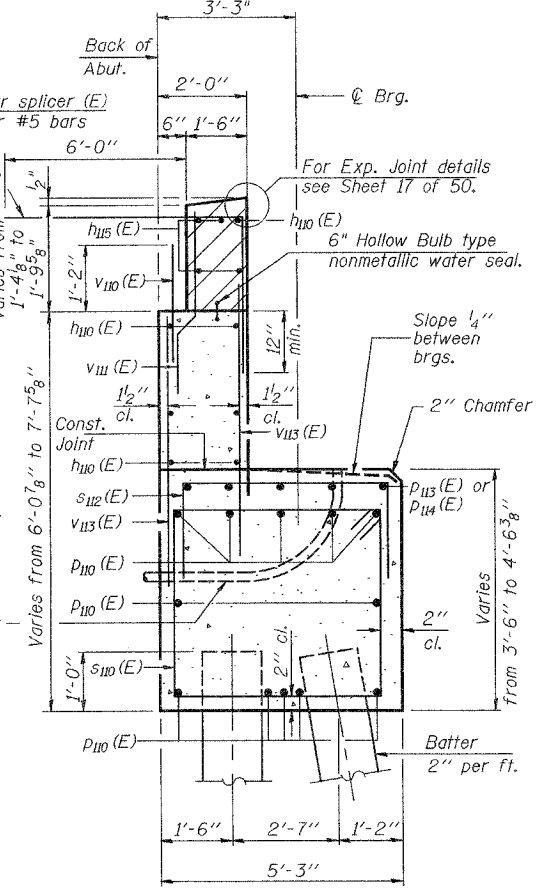
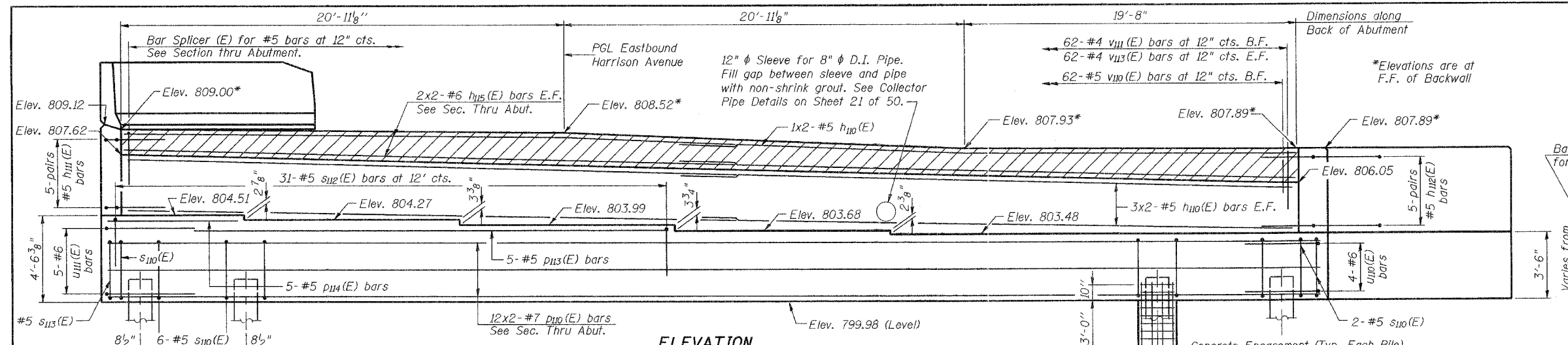
03R1751

DATE

12/14/06

10/05/05 AM 12/13/2006 10:05 AM
 DRAWN: MCM/JKR 8/14/06
 REVIEWED: JKR 8/14/06
 10/05/05 AM 12/13/2006 10:05 AM
 DRAWN: MCM/JKR 8/14/06
 REVIEWED: JKR 8/14/06

ROUTE NO.	SECTION	COUNTY	POST MILES	SHEET NO.	TOTAL SHEETS
FAP 0525		WINNEBAGO	157	98	50 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			
82-00518-00-BR					



- MIN. BAR LAP (U.N.)**
- #5 = 2'-5"
 - #6 = 2'-10"
 - #7 = 3'-10"
- PILE DATA**
- Type & Size: HP 12 x 53 w/ Pile Shoes
 - Nominal Required Bearing : 420 Kips
 - Allowable Resistance Available : 140 Kips
 - Est. Length: 56'
 - No. Required: 12 + 1 test pile

NOTES

- Hatched area to be poured after superstructure forms have been removed. Quantity of concrete included with Concrete Superstructure.
- Space reinforcement in cap to miss anchor bolts. Pour steps monolithically with cap.
- Reinforcement bars designated (E) shall be epoxy coated.
- Quantity of concrete in end post included with Concrete Superstructure.
- Work this Sheet with Sheets 34 & 35 of 50.
- Bars indicated thus 4x2-#5 etc. indicate 4 lines of bars with 2 lengths per line.
- All edges will have 3/4" chamfer unless noted.
- For details of Bar Splicers see Sheet 44 of 50.
- B.F. denotes Back Face.
- F.F. denotes Front Face.
- E.F. denotes Each Face.

Corporate License Number 184-001-084

EAST ABUTMENT

EASTBOUND HARRISON AVENUE OVER UP & CC&P RAILROAD

F.A.P. ROUTE 0525

SECTION 02-00518-00-BR

ROCKFORD, ILLINOIS

STATION 95+72.00

STRUCTURE NO. 101-6111

© Copyright Hanson Professional Services Inc. 2006

HANSON

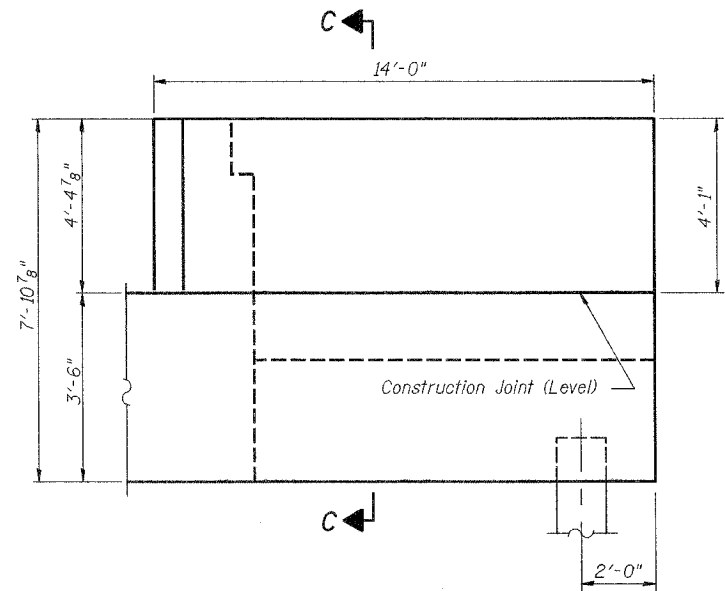
JOB NO. 03R1751

DATE 12/14/06

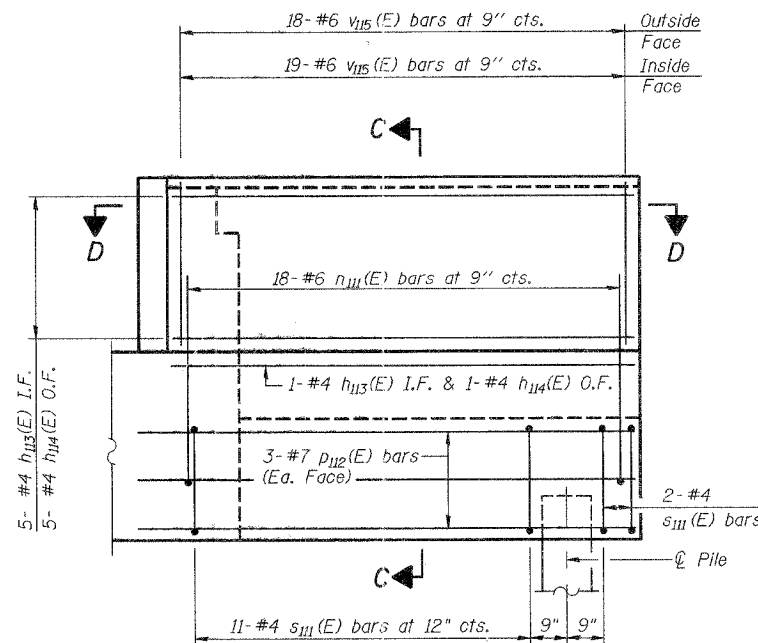
1000:44 AM 12/13/06 10:01 AM 12/13/06 08:22/06 12/13/06 08:22/06
 LAYOUT: MKY/SMM/DG/OL/DG
 DRAWN: MWJ/JAK/08/22/06
 REVIEWED: MKR 08/22/06

LAYOUT	DRAWN	DATE
MKY/SMM/DG/OL/DG	MWJ/JAK/08/22/06	08/22/06
REVIEWED	MKR	08/22/06

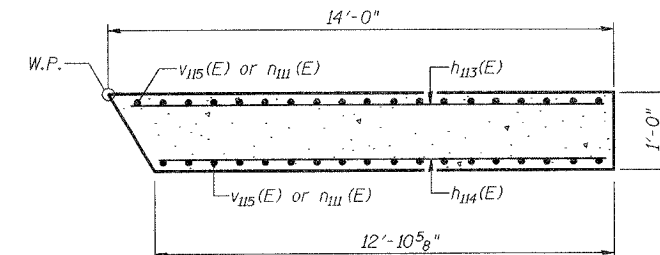
ROUTE NO.	SECTION	COUNTY	SHEET	DATE	SHEET NO.
FAP 0525	*	WINNEBAGO	157	91	34
FEL. ROAD DIST. NO. 7		ALLIGOR		FEL. AID PROJECT	
* 02-00518-00-BR					



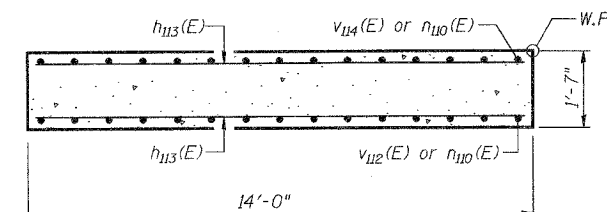
SOUTH WING WALL ELEVATION
Showing Dimensions



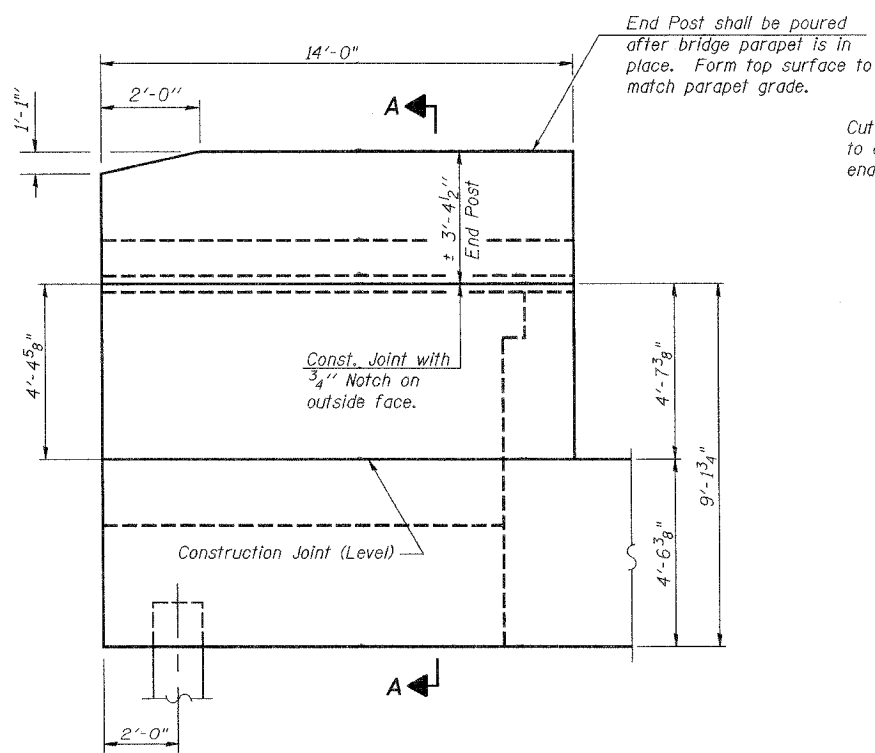
SOUTH WING WALL ELEVATION
Showing Reinforcement



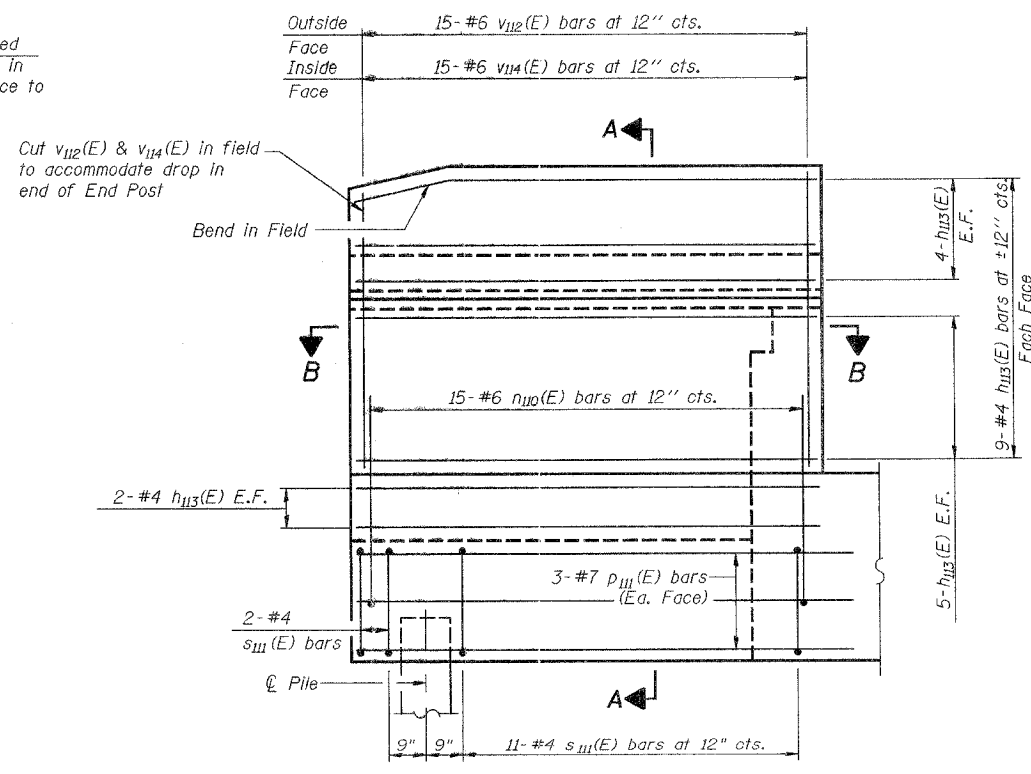
SEC. D-D



SEC. B-B



NORTH WING WALL ELEVATION
Showing Dimensions



NORTH WING WALL ELEVATION
Showing Reinforcement

NOTES

Reinforcement bars designated (E) shall be epoxy coated. Quantity of concrete in end post included with Concrete Superstructure.
Work this Sheet with Sheets 33 & 35 of 50. All edges have 3/4" chamfer unless noted. For details of Bar Splicers, see Sheet 44 of 50. O.F. denotes Outside Face. I.F. denotes Inside Face. E.F. denotes Each Face.

Corporate License Number 184-001-084

EAST ABUTMENT DETAILS

**EASTBOUND HARRISON AVENUE
OVER UP & CC&P RAILROAD
F.A.P. ROUTE 0525
SECTION 02-00518-00-BR
ROCKFORD, ILLINOIS
STATION 95+72.00
STRUCTURE NO. 101-6111**

© Copyright Hanson Professional Services Inc. 2006



JOB NO.

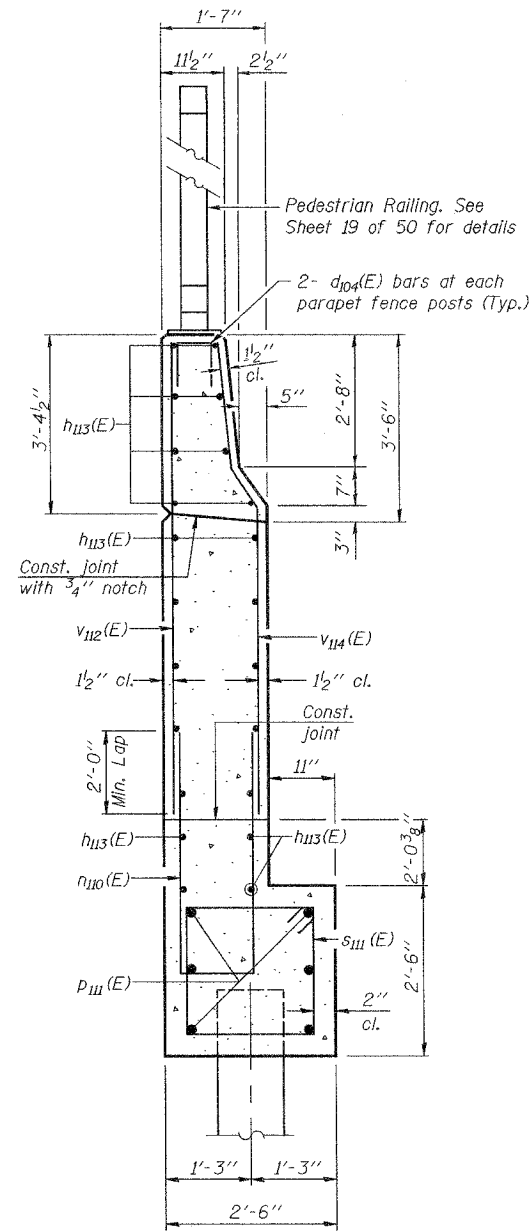
03R1751

DATE

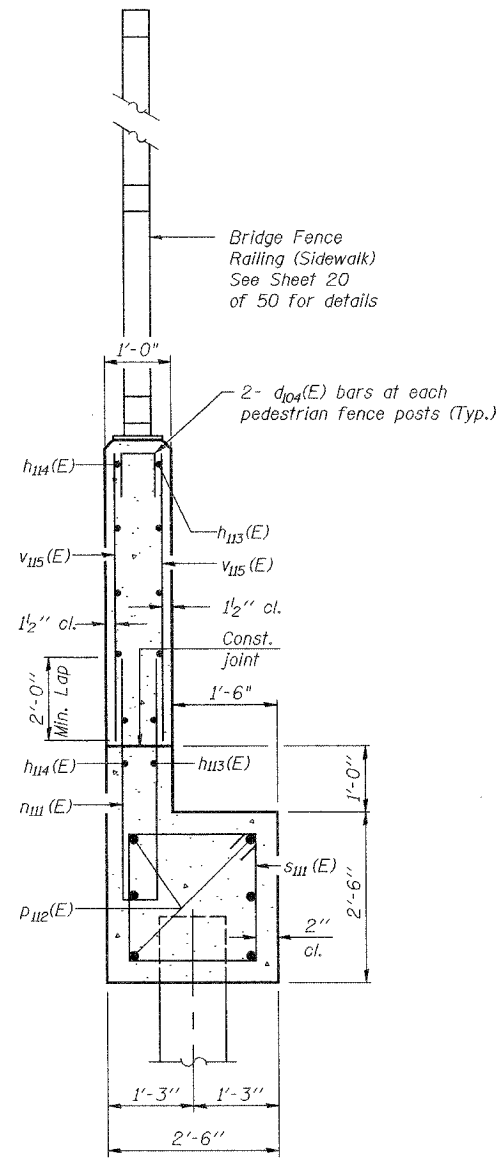
12/14/06

10/06/08 AM
 12/13/2006 10:01 AM
 I:\03\jobs\03R1751\Struct\Steel\East\BundAS-03H-EB-East\BundD2.dgn
 LAYOUT JKR/SJK/06/01/06
 DRAWN MCM/JKR/07/14/06
 REVIEWED JKR 08/14/06

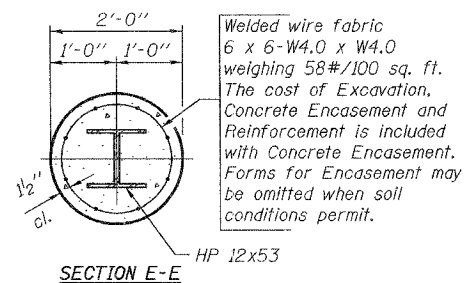
ROUTE NO. FAP 0525	SECTION *	COUNTY WINNEBAGO	SHEET NO. 157	SHEET NO. 92	SHEET NO. 35 50 SHEETS
ILLINOIS FED. AID PROJECT * 02-00518-00-BR					



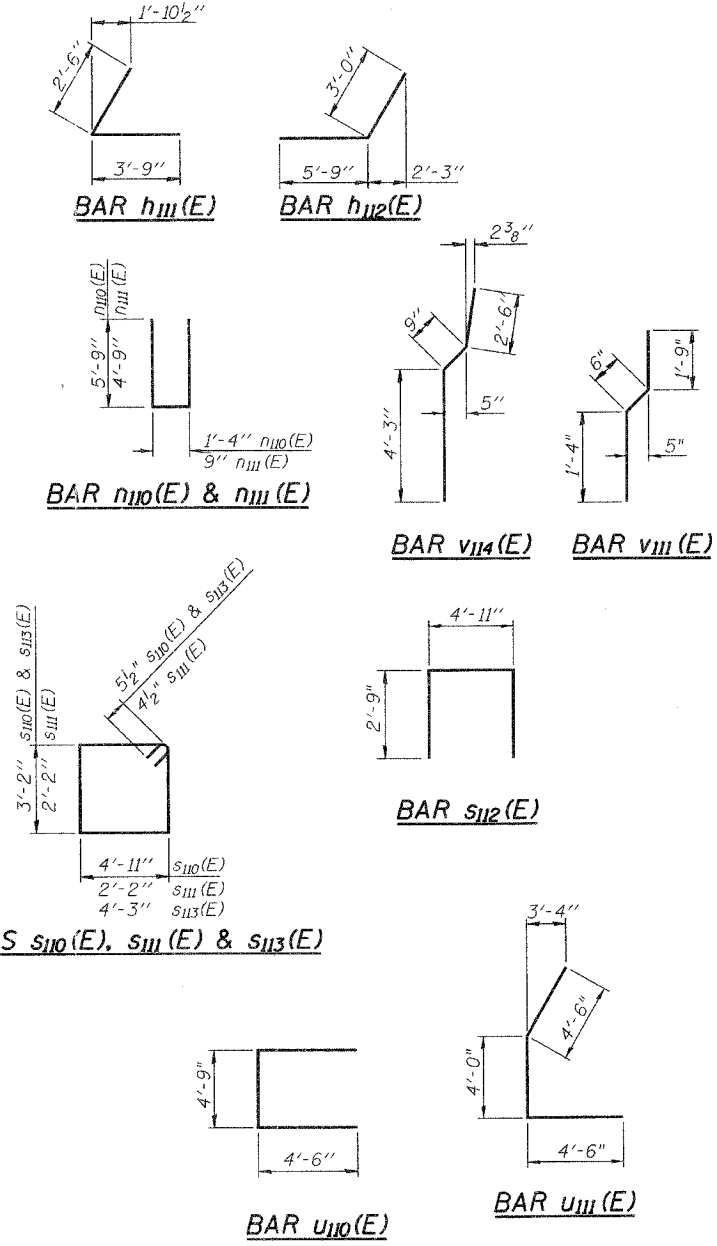
SECTION A-A



SECTION C-C



PILE ENCASEMENT DETAIL



EAST ABUTMENT
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d104(E)	12	#4	2'-1"	□
h110(E)	14	#5	31'-10"	—
h111(E)	10	#5	6'-3"	∟
h112(E)	10	#5	8'-9"	∟
h113(E)	28	#4	13'-9"	—
h114(E)	6	#4	12'-7"	—
h115(E)	8	#6	32'-1"	—
n110(E)	15	#6	12'-10"	□
n111(E)	18	#6	10'-3"	□
p110(E)	24	#7	33'-10"	—
p111(E)	6	#7	13'-9"	—
p112(E)	6	#7	15'-9"	—
p113(E)	5	#5	24'-11"	—
p114(E)	5	#5	7'-2"	—
s110(E)	63	#5	17'-1"	□
s111(E)	26	#4	9'-5"	□
s112(E)	31	#5	10'-5"	□
s113(E)	1	#5	15'-9"	□
u110(E)	4	#6	13'-9"	□
u111(E)	5	#6	13'-0"	□
v110(E)	62	#5	2'-6"	—
v111(E)	62	#4	3'-7"	—
v112(E)	15	#6	7'-6"	—
v113(E)	124	#4	5'-11"	—
v114(E)	15	#6	7'-6"	—
v115(E)	37	#6	3'-10"	—
Structure Excavation		Cu. Yd.	49.4	
Concrete Structures		Cu. Yd.	75.0	
Concrete Encasement		Cu. Yd.	4.6	
Reinforcement Bars, Epoxy Coated		Pound	7260	
Furnishing Steel Piles, HP12x53		Foot	672	
Driving Piles		Foot	672	
Test Piles Steel, HP12x53		Each	1	
Pile Shoes		Each	13	
Concrete Sealer		Sq. Ft.	212	
Porous Granular Embankment		Cu. Yd.	117.3	
Anchor Bolts, 1"		Each	12	

NOTES

Reinforcement bars designated (E) shall be epoxy coated.
Work this Sheet with Sheets 33 & 34 of 50.
See Sheet 16 of 50 for Bar d104(E) configuration.

Corporate License Number 184-001-084

EAST ABUTMENT DETAILS
EASTBOUND HARRISON AVENUE
OVER UP & CC&P RAILROAD
F.A.P. ROUTE 0525
SECTION 02-00518-00-BR
ROCKFORD, ILLINOIS
STATION 95+72.00
STRUCTURE NO. 101-6111

© Copyright Hanson Professional Services Inc. 2006



JOB NO.
03R1751
DATE
12/14/06

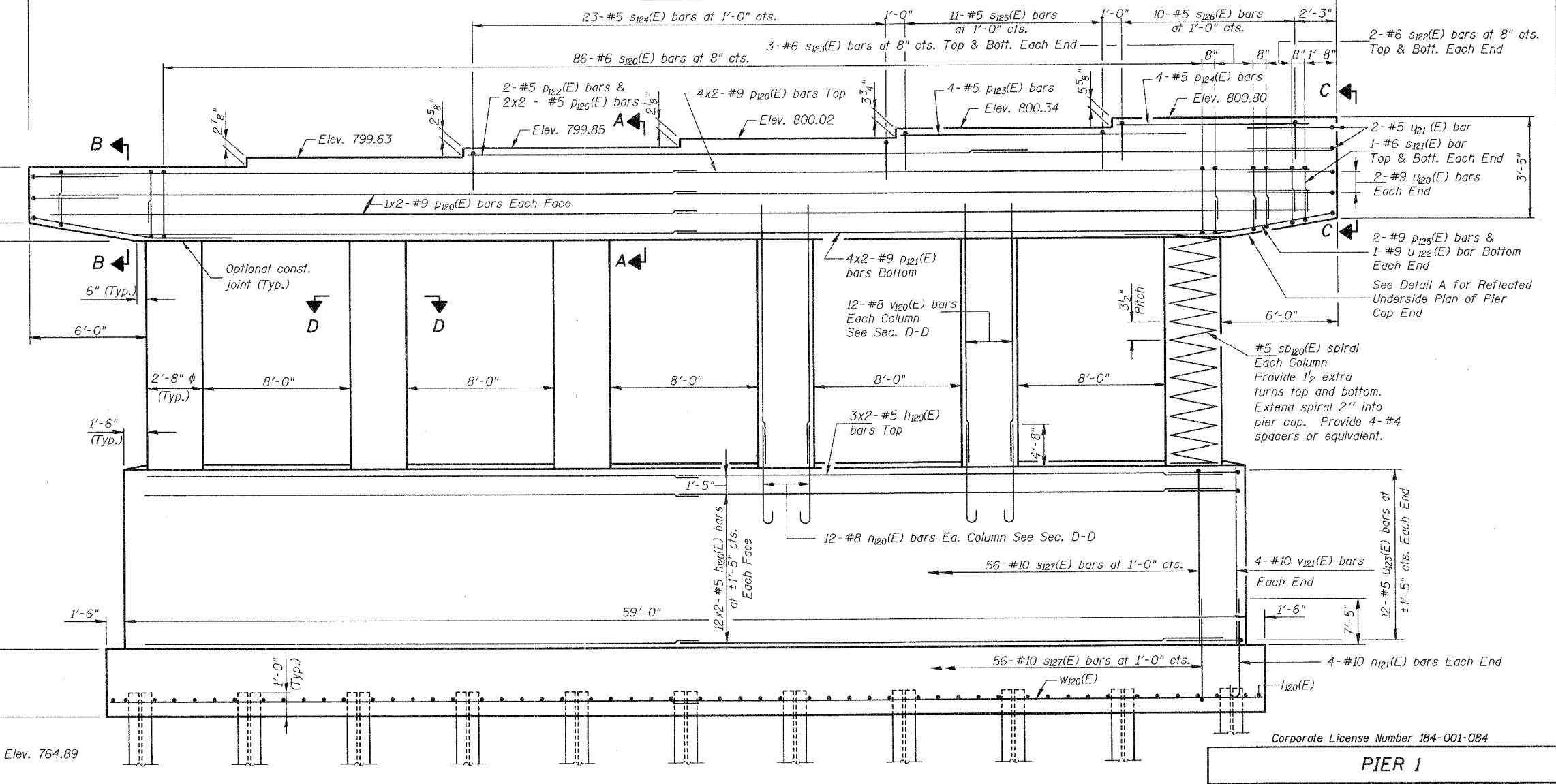
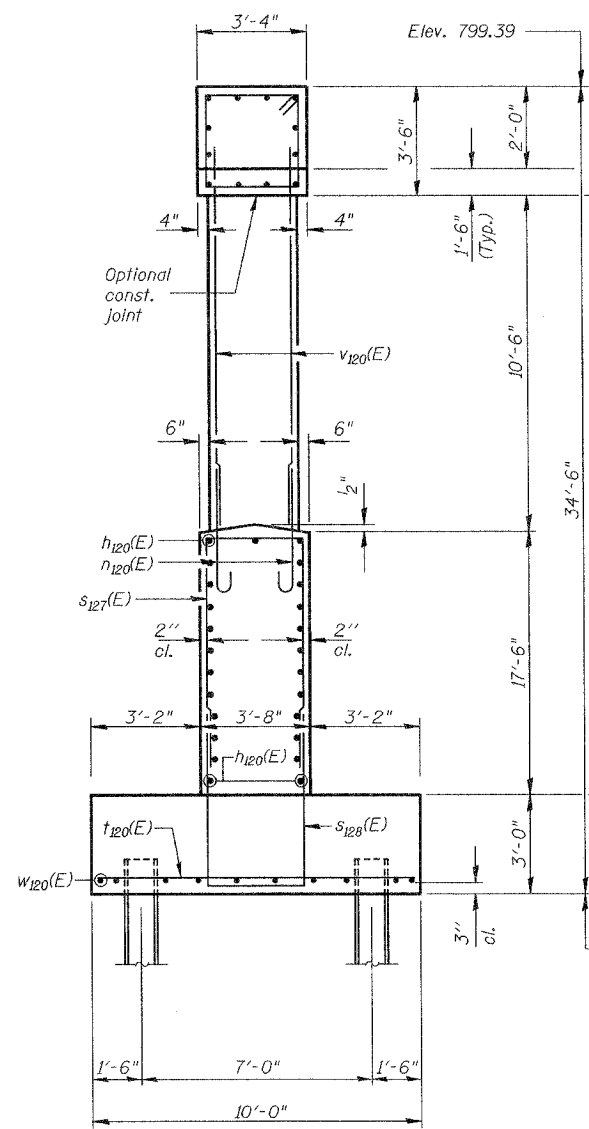
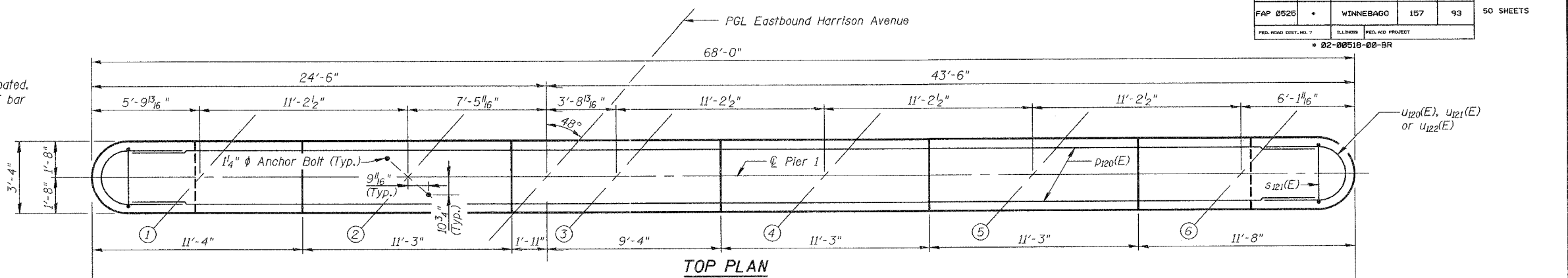
10/02/06 AM
 12/13/06 06:00 AM
 10/27/06 09:53 AM
 10/27/06 09:53 AM
 10/27/06 09:53 AM
 10/27/06 09:53 AM
 10/27/06 09:53 AM

LAYOUT
 DRAWN
 CHECKED
 REVIEWED
 DATE

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO.
FAP 0525	*	WINNEBAGO	157	93
FED. ROAD DIST. NO. 7				
ILLINOIS				
PROJECT NO. 02-00518-00-BR				

NOTES

Space Reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 Work this sheet with Sheet 37 of 50.
 Reinforcement Bars designated (E) shall be epoxy coated.
 Bar Indicated thus 1x2 - #5 etc. indicates 1 line of bar with 2 lengths per line.



ELEVATION
(Looking Northeast)

MINIMUM BAR LAP

- HORIZONTAL**
- #5 - 2'-2" (Bottom of Footing)
 - #5 - 3'-0"
 - #9 - 8'-1"

PIER 1
 EASTBOUND HARRISON AVENUE
 OVER UP & CC&P RAILROAD
 F.A.P. ROUTE 0525
 SECTION 02-00518-00-BR
 ROCKFORD, ILLINOIS
 STATION 95+72.00
 STRUCTURE NO. 101-6111

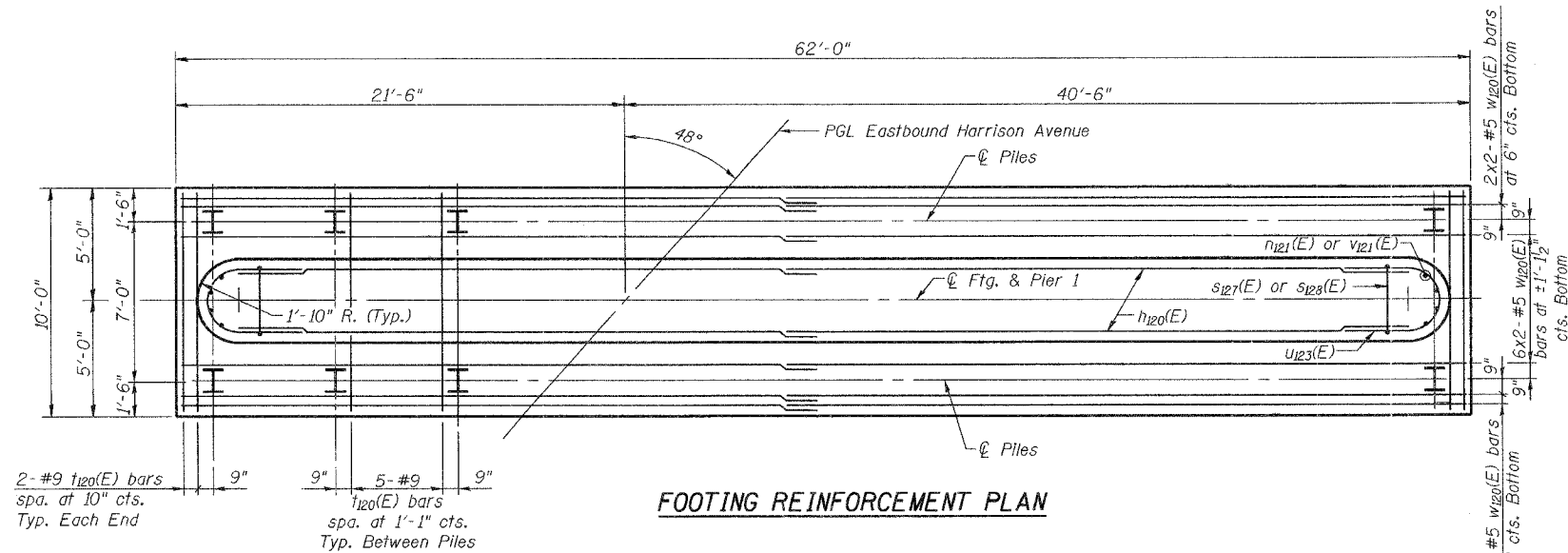
Corporate License Number 184-001-084

© Copyright Hanson Professional Services Inc. 2006

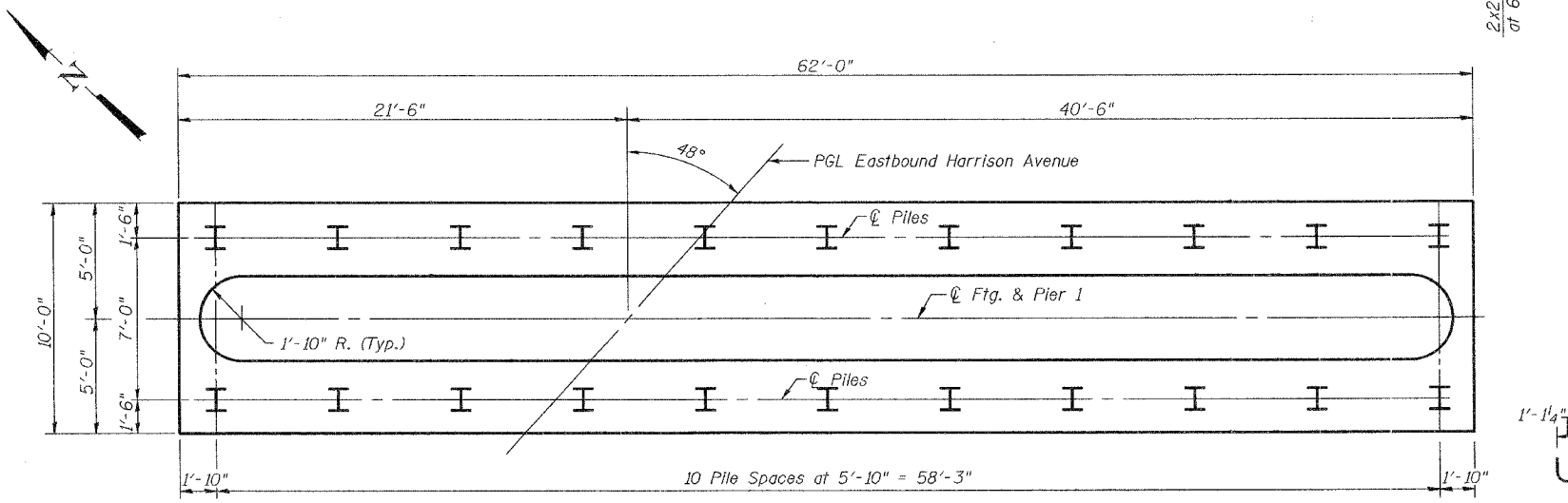
JOB NO. 03R1751
 DATE 12/14/06

3:26:05 PM 3/01/06
 12/12/06 03:26 PM
 R03 Job 03R1751 Struct Steel East Bound S-036-EB-Pier1.dgn
 LAYOUT MKR 3/01/06
 DRAWN MRM/ART 7/24/06
 REVIEWED FLN 08/04/06

ROUTE NO.	SECTION	COUNTY	STATES	SHEET	SHEET NO. 37
FAP 0525		WINNEBAGO	157	94	
FED. ROAD DIST. NO. 7					50 SHEETS
ILLINOIS FED. AID PROJECT					
* 02-00518-00-BR					

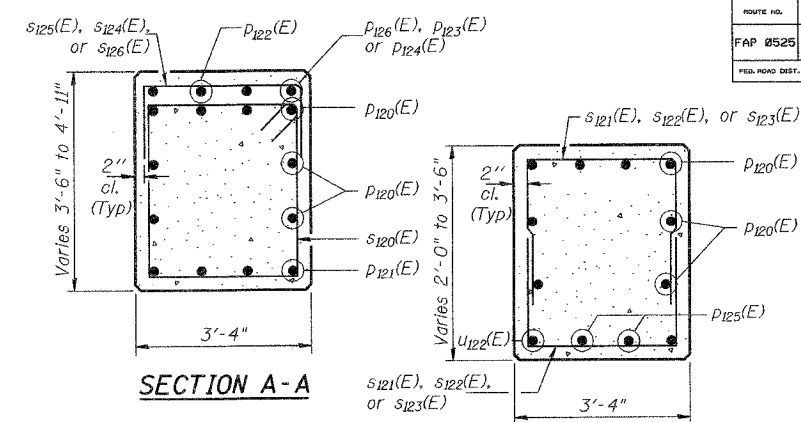


FOOTING REINFORCEMENT PLAN

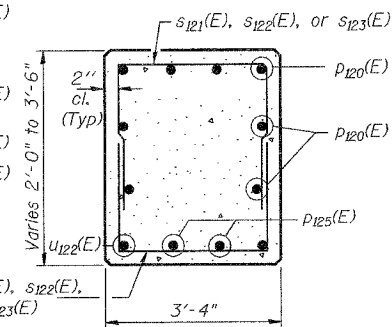


FOOTING PILE PLAN

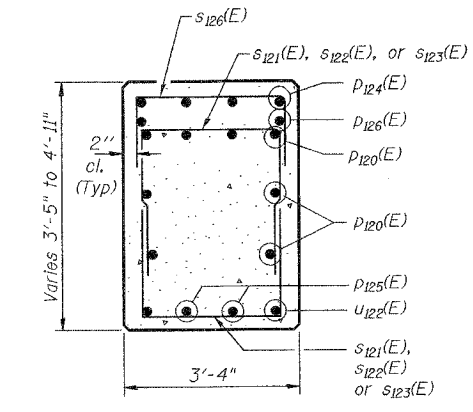
PILE DATA
 Type & Size: HP 12x53 w/ Pile Shoes
 Nominal Required Bearing : 420 Kips
 Allowable Resistance Available : 140 Kips
 Est. Length: 18'
 No. Req'd: 21 + 1 Test Pile



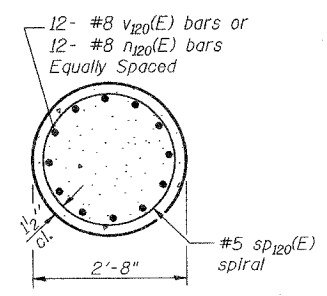
SECTION A-A



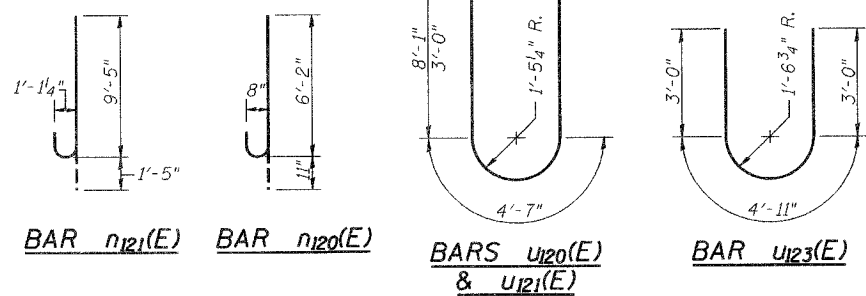
SECTION B-B



SECTION C-C



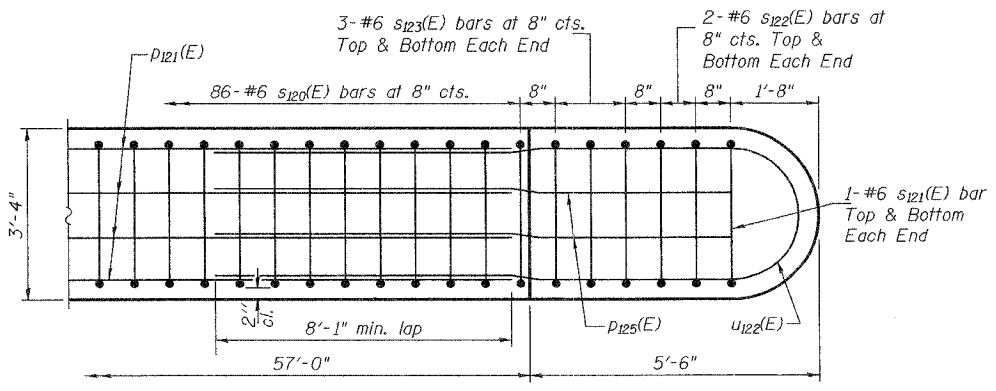
SECTION D-D



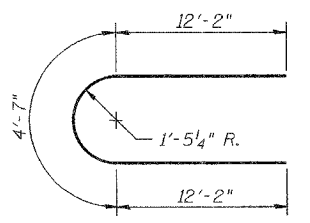
PIER 1 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
P120(E)	54	#5	29'-2"	—
P120(E)	72	#8	7'-1"	—
P121(E)	8	#10	10'-10"	—
P120(E)	16	#9	36'-5"	—
P121(E)	8	#9	32'-7"	—
P122(E)	2	#5	25'-6"	—
P123(E)	4	#5	14'-3"	—
P124(E)	4	#5	9'-10"	—
P125(E)	4	#9	12'-0"	—
P126(E)	4	#9	23'-4"	—
S120(E)	86	#6	13'-8"	□
S121(E)	4	#6	7'-2"	□
S122(E)	8	#6	7'-6"	□
S123(E)	12	#6	8'-0"	□
S124(E)	23	#5	7'-4"	□
S125(E)	11	#5	8'-4"	□
S126(E)	10	#5	9'-2"	□
S127(E)	56	#10	37'-8"	□
S128(E)	56	#10	23'-8"	□
*SP120(E)	6	#5	10'-8"	⋈
T120(E)	54	#9	9'-8"	—
U120(E)	4	#9	20'-9"	—
U121(E)	2	#5	10'-7"	—
U122(E)	2	#9	28'-11"	—
U123(E)	26	#5	10'-11"	—
V120(E)	72	#8	12'-6"	—
V121(E)	8	#10	17'-2"	—
W120(E)	20	#5	31'-11"	—
Concrete Structures	Cu. Yd.		253.6	
Reinforcement Bars, Epoxy Coated	Pound		32,140	
Structure Excavation	Cu. Yd.		548.3	
Furnishing Steel Piles, HP 12x53	Foot		378	
Driving Piles	Foot		378	
Pile Shoes	Each		22	
Test Pile Steel HP 12x53	Each		1	
Anchor Bolts, 1 1/4"	Each		12	

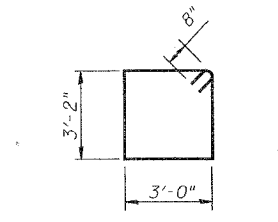
NOTES
 Work this sheet with Sheet 36 of 50.
 Reinforcement Bars designated (E) shall be epoxy coated.
 Bar indicated thus 1x2 - #5 etc. indicates 1 line of bar with 2 lengths per line.
 * Length is spiral height.



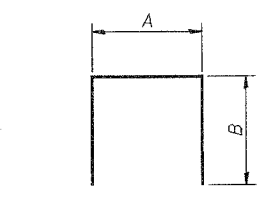
DETAIL A REFLECTED UNDERSIDE PLAN OF PIER CAP END



BAR u122(E)



BAR P125(E)



BARS s121(E) thru s128(E)

A & B DIMENSIONS

Bar	A	B
s121(E)	3'-0"	2'-1"
s122(E)	3'-0"	2'-3"
s123(E)	3'-0"	2'-6"
s124(E)	3'-0"	2'-2"
s125(E)	3'-0"	2'-8"
s126(E)	3'-0"	3'-1"
s127(E)	3'-4"	17'-2"
s128(E)	3'-4"	10'-2"

MINIMUM BAR LAP

HORIZONTAL
 #5 - 2'-2" (Bottom of Footing)
 #5 - 3'-0"
 #9 - 8'-1"

PIER 1 DETAILS
 EASTBOUND HARRISON AVENUE
 OVER UP & CC&P RAILROAD
 F.A.P. ROUTE 0525
 SECTION 02-00518-00-BR
 ROCKFORD, ILLINOIS
 STATION 95+72.00
 STRUCTURE NO. 101-6111

© Copyright Hanson Professional Services Inc. 2006
 Corporate License Number 184-001-084

HANSON

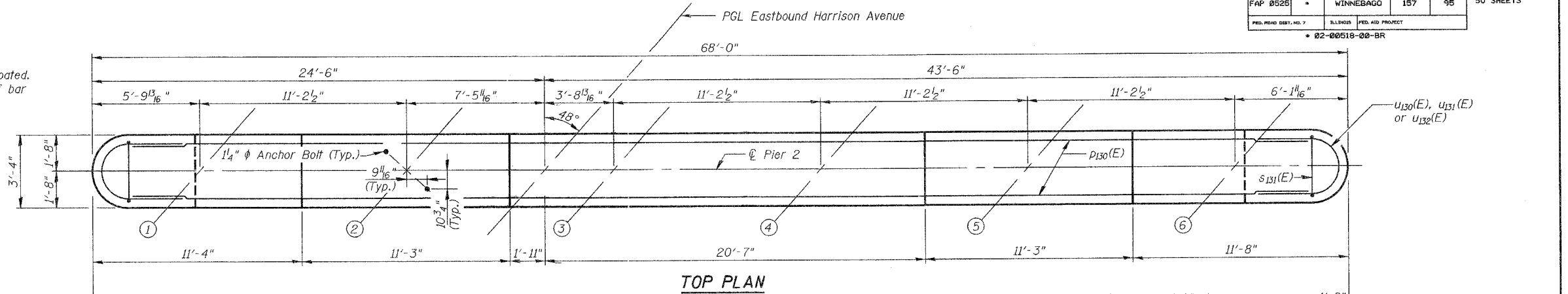
JOB NO. 03R1751
 DATE 12/14/06

3:25:39 PM
 12/12/2006 03:25 PM
 A:\03\0803\03R1751\Struct\Sheet\East Bound\5-037-EB-Pier\Detail.dwg
 LAYOUT JKR 3/01/06
 DRAWN MCM/JAR 7/24/06
 REVISIONS FLN 08/04/08

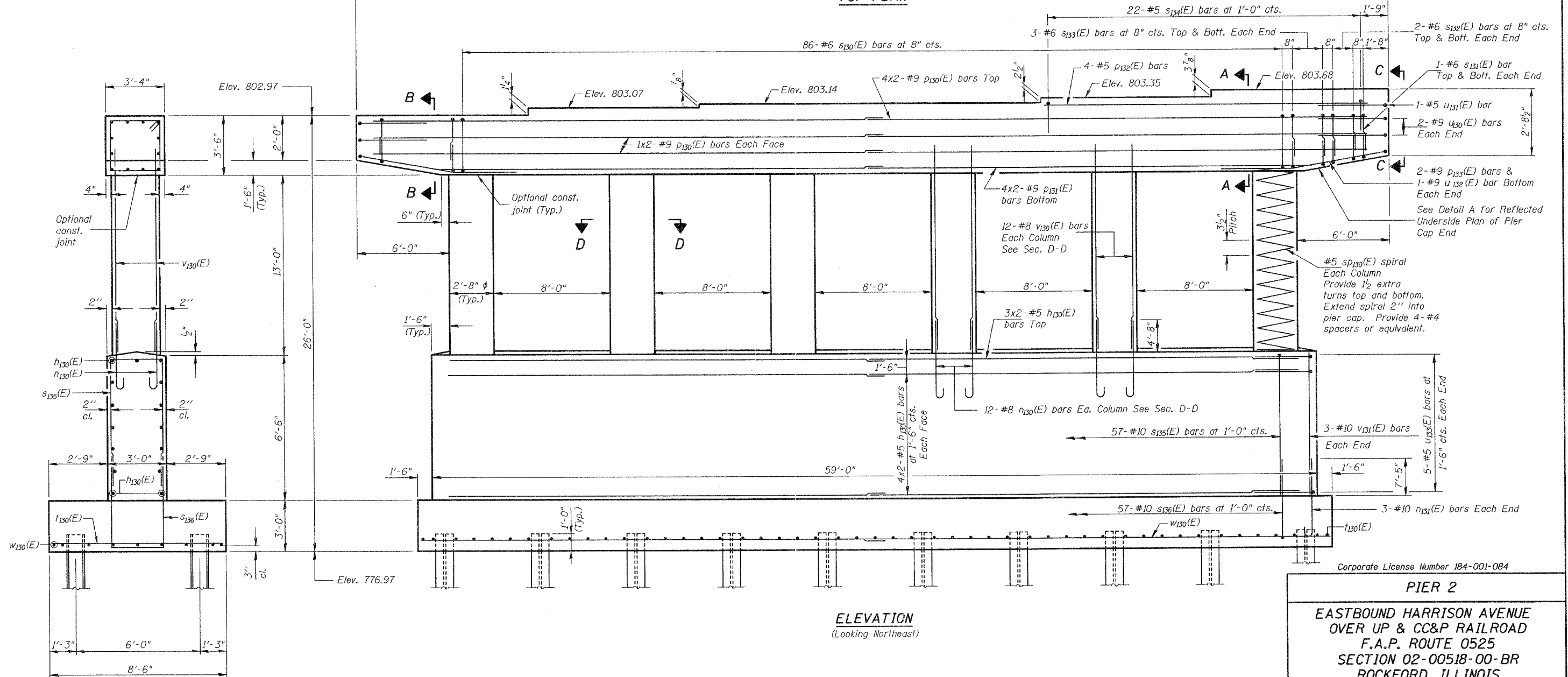
ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO.
FAP 0525		WINNEBAGO	157	95
PROJECT NO. 02-00518-00-BR		50 SHEETS		

NOTES

Space Reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 Work this sheet with Sheet 39 of 50.
 Reinforcement Bars designated (E) shall be epoxy coated.
 Bar indicated thus 1x2 - #5 etc. indicates 1 line of bar with 2 lengths per line.



TOP PLAN



ELEVATION
(Looking Northeast)

END VIEW

MINIMUM BAR LAP

HORIZONTAL

- #5 - 2'-2" (Bottom of Footing)
- #5 - 3'-0"
- #9 - 8'-1"

Corporate License Number 184-001-084

PIER 2

**EASTBOUND HARRISON AVENUE
 OVER UP & CC&P RAILROAD
 F.A.P. ROUTE 0525
 SECTION 02-00518-00-BR
 ROCKFORD, ILLINOIS
 STATION 95+72.00
 STRUCTURE NO. 101-6111**

© Copyright Hanson Professional Services Inc. 2006



JOB NO.
03R1751

DATE
12/14/06

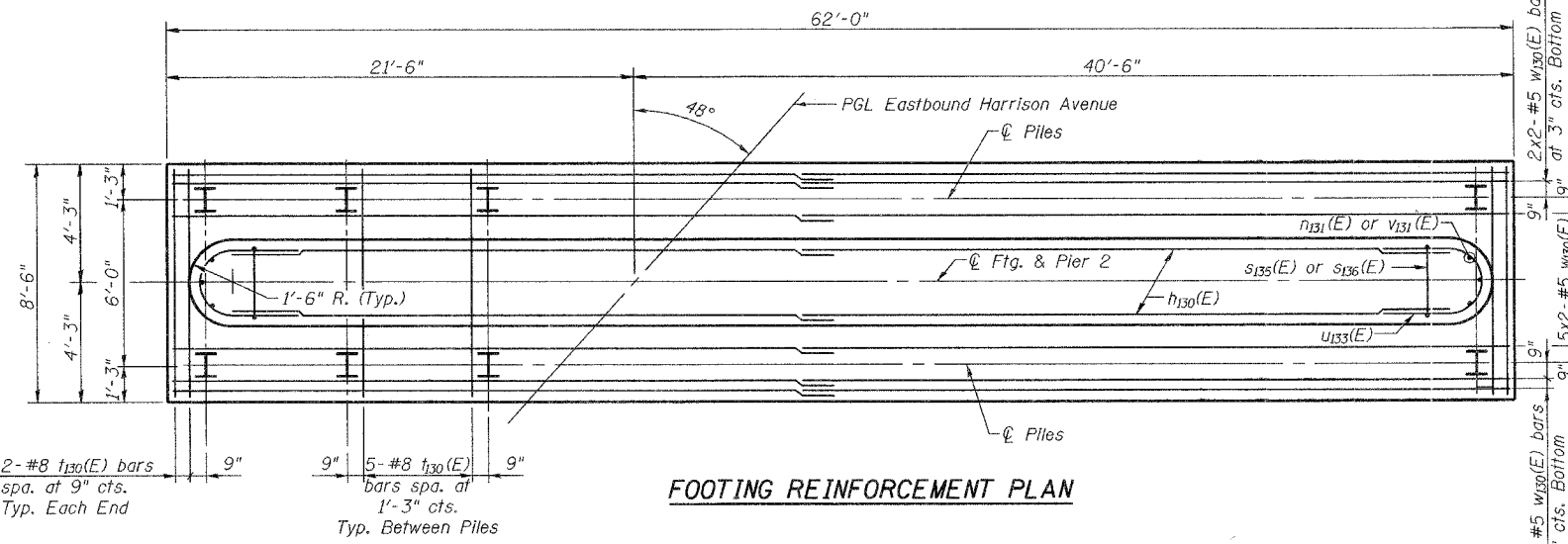
3:24:57 PM
 12/12/2006 03:24 PM
 I:\03\06503R1751\Struct\Sheet\East Bound\02-00518-00-BR-Pier 2.dwg

LAYOUT	JMR	3/01/06
DRAWN	MDW/JMR	7/24/06
REVIEWED	FLN	08/04/06

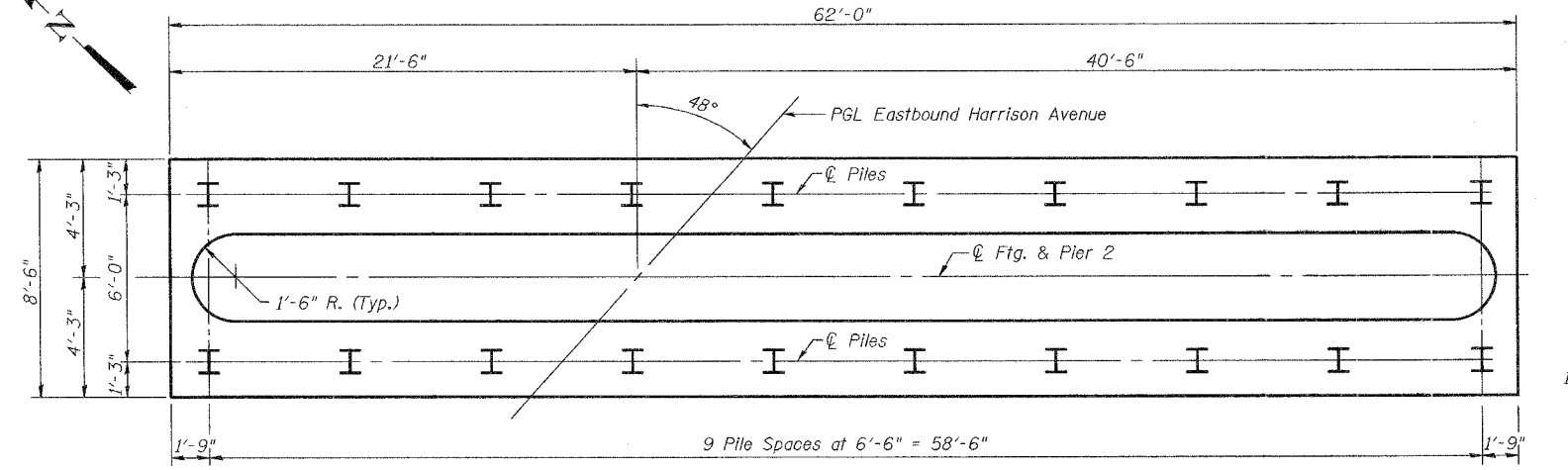
ROUTE NO.	SECTION	COUNTY	DATE	SHEET NO.
FAP 0525	*	WINNEBAGO	157	96
FED. ROAD DIST. NO. 7				
BALANCE: 50 SHEETS				

PIER 2 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
n ₁₃₀ (E)	22	#5	29'-6"	—
n ₁₃₀ (E)	72	#8	7'-1"	U
n ₁₃₁ (E)	6	#10	10'-10"	U
p ₁₃₀ (E)	16	#9	36'-5"	—
p ₁₃₁ (E)	8	#9	32'-7"	—
p ₁₃₂ (E)	4	#5	21'-1"	—
p ₁₃₃ (E)	4	#9	12'-0"	—
s ₁₃₀ (E)	86	#6	13'-8"	□
s ₁₃₁ (E)	4	#6	7'-2"	U
s ₁₃₂ (E)	8	#6	7'-6"	U
s ₁₃₃ (E)	12	#6	8'-0"	U
s ₁₃₄ (E)	22	#5	7'-2"	U
s ₁₃₅ (E)	57	#10	15'-0"	U
s ₁₃₆ (E)	57	#10	20'-10"	U
*s _{p130} (E)	6	#5	13'-2"	W
t ₁₃₀ (E)	49	#8	8'-2"	—
u ₁₃₀ (E)	4	#9	20'-9"	U
u ₁₃₁ (E)	1	#5	10'-7"	U
u ₁₃₂ (E)	2	#9	28'-11"	U
u ₁₃₃ (E)	10	#5	9'-11"	U
v ₁₃₀ (E)	72	#8	15'-0"	—
v ₁₃₁ (E)	6	#10	6'-2"	—
w ₁₃₀ (E)	18	#5	31'-11"	—
Concrete Structures	Cu. Yd.		147.2	
Reinforcement Bars, Epoxy Coated	Pound		23,970	
Structure Excavation	Cu. Yd.		249.7	
Furnishing Steel Piles, HP 12x53	Foot		361	
Driving Piles	Foot		361	
Pile Shoes	Each		20	
Test Pile Steel, HP 12x53	Each		1	
Anchot Bolts, 1/4"	Each		12	

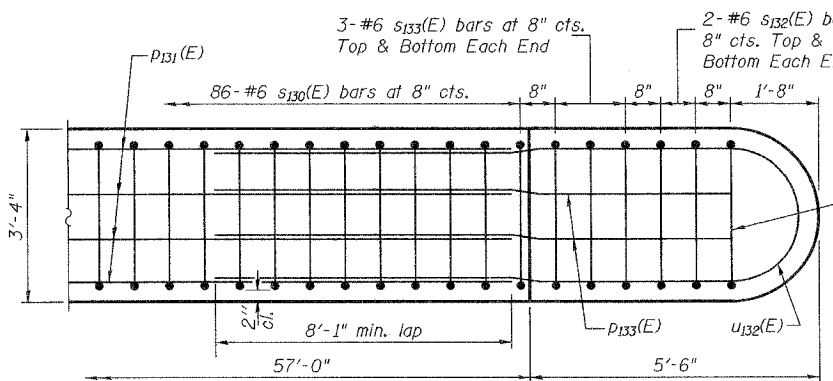


FOOTING REINFORCEMENT PLAN

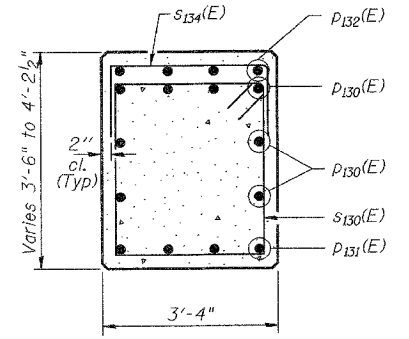


FOOTING PILE PLAN

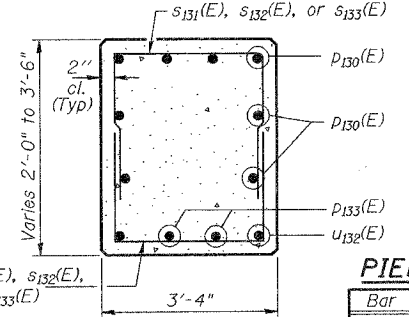
PILE DATA
 Type & Size: HP 12x53 w/ Pile Shoes
 Nominal Required Bearing : 420 Kips
 Allowable Resistance Available : 140 Kips
 Est. Length: 19'
 No. Req'd: 19 + 1 Test Pile



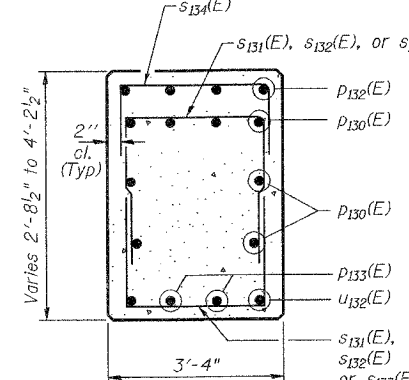
DETAIL A REFLECTED UNDERSIDE PLAN OF PIER CAP END



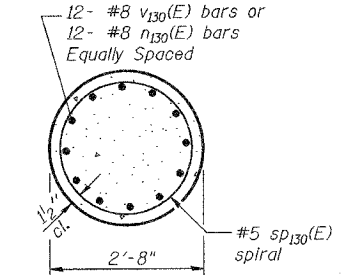
SECTION A-A



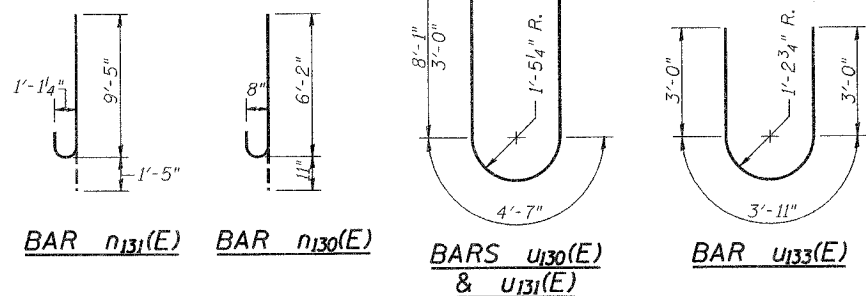
SECTION B-B



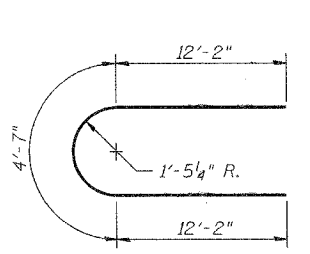
SECTION C-C



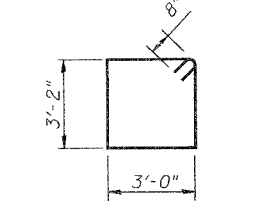
SECTION D-D



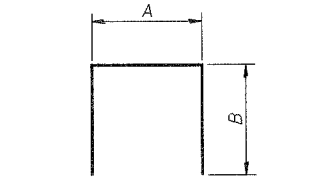
BAR n₁₃₁(E) BAR n₁₃₀(E) BARS u₁₃₀(E) & u₁₃₁(E) BAR u₁₃₃(E)



BAR u₁₃₂(E)



BAR s₁₃₀(E)



BARS s₁₃₁(E) thru s₁₃₆(E)

A & B DIMENSIONS

Bar	A	B
s ₁₃₁ (E)	3'-0"	2'-1"
s ₁₃₂ (E)	3'-0"	2'-3"
s ₁₃₃ (E)	3'-0"	2'-6"
s ₁₃₄ (E)	3'-0"	2'-1"
s ₁₃₅ (E)	2'-8"	6'-2"
s ₁₃₆ (E)	2'-8"	9'-1"

MINIMUM BAR LAP

HORIZONTAL

#5 - 2'-2" (Bottom of Footing)
 #5 - 3'-0"
 #9 - 8'-1"

NOTES

Work this sheet with Sheet 38 of 50.
 Reinforcement Bars designated (E) shall be epoxy coated.
 Bar indicated thus 1x2 - #5 etc. indicates 1 line of bar with 2 lengths per line.

* Length is spiral height.

Corporate License Number 184-001-084

PIER 2 DETAILS

**EASTBOUND HARRISON AVENUE
 OVER UP & CC&P RAILROAD
 F.A.P. ROUTE 0525
 SECTION 02-00518-00-BR
 ROCKFORD, ILLINOIS
 STATION 95+72.00
 STRUCTURE NO. 101-6111**

© Copyright Hanson Professional Services Inc. 2006



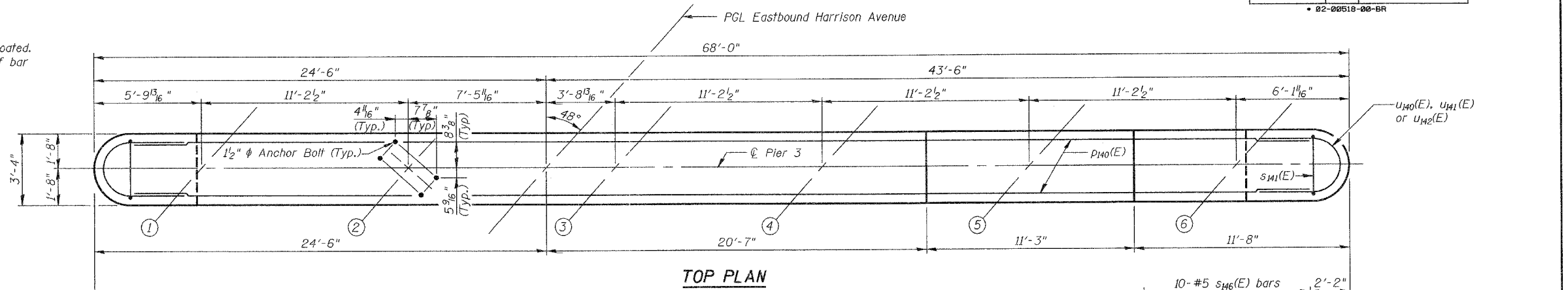
JOB NO.
03R1751
DATE
12/14/06

3:24:21 PM 3/01/06
 12/12/2006 03:24 PM 7/24/06
 P:\03\proj\03R1751\Struct\Sheet\East Bound\S-039-EB-Pier 2D.dwg
 LAYOUT JMR 3/01/06
 DRAWN MMW/JMR 7/24/06
 REVIEWED FLN 08/04/06

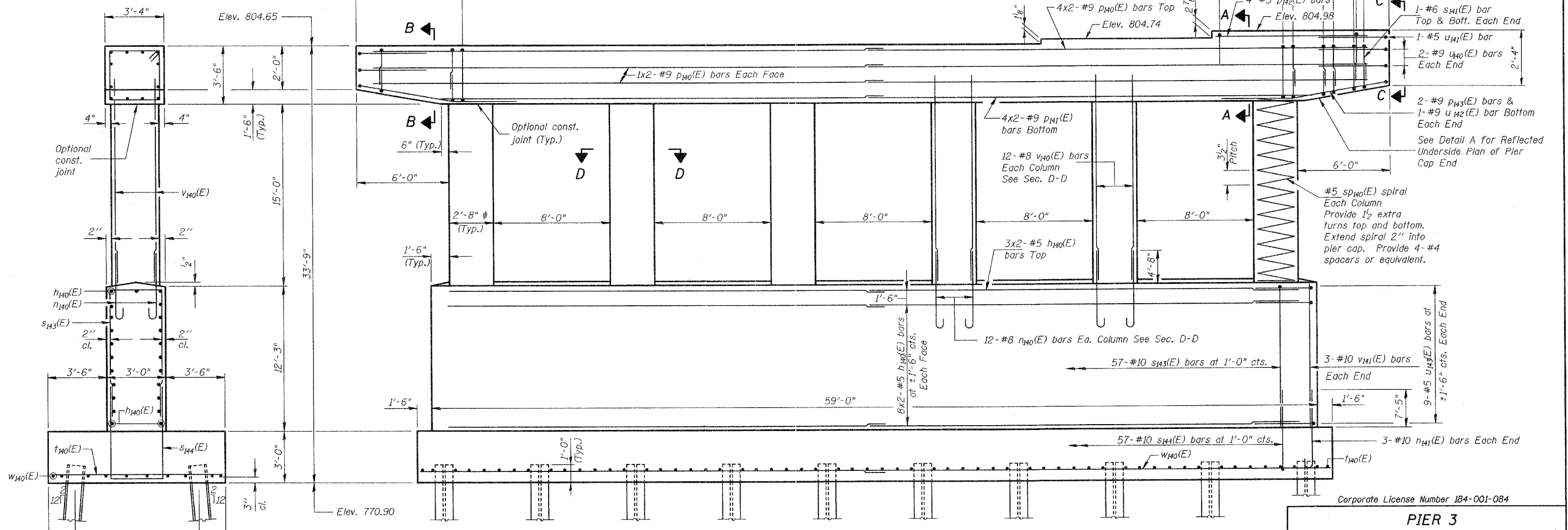
ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO. 40
FAP 0525		WINNEBAGO	157	50 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		
• 02-00518-00-BR				

NOTES

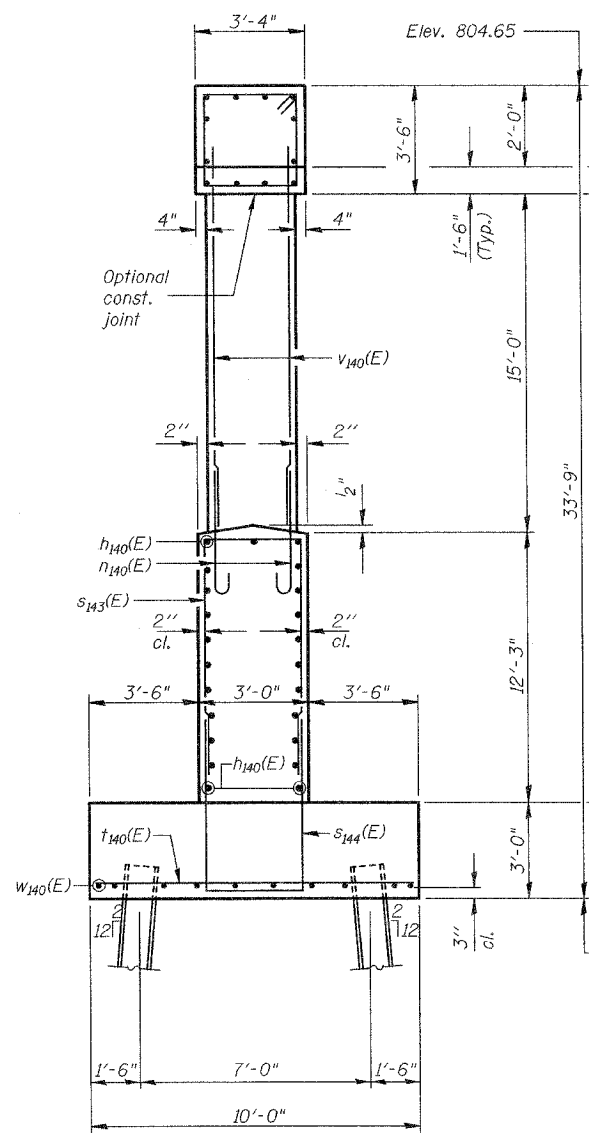
Space Reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 Work this sheet with Sheet 41 of 50.
 Reinforcement Bars designated (E) shall be epoxy coated.
 Bar indicated thus 1x2 - #5 etc. indicates 1 line of bar with 2 lengths per line.



TOP PLAN



ELEVATION
(Looking Northeast)



END VIEW

MINIMUM BAR LAP

- HORIZONTAL**
- #5 - 2'-2" (Bottom of Footing)
 - #5 - 3'-0"
 - #9 - 8'-1"

PIER 3

EASTBOUND HARRISON AVENUE
 OVER UP & CC&P RAILROAD
 F.A.P. ROUTE 0525
 SECTION 02-00518-00-BR
 ROCKFORD, ILLINOIS
 STATION 95+72.00
 STRUCTURE NO. 101-6111

Corporate License Number 184-001-084

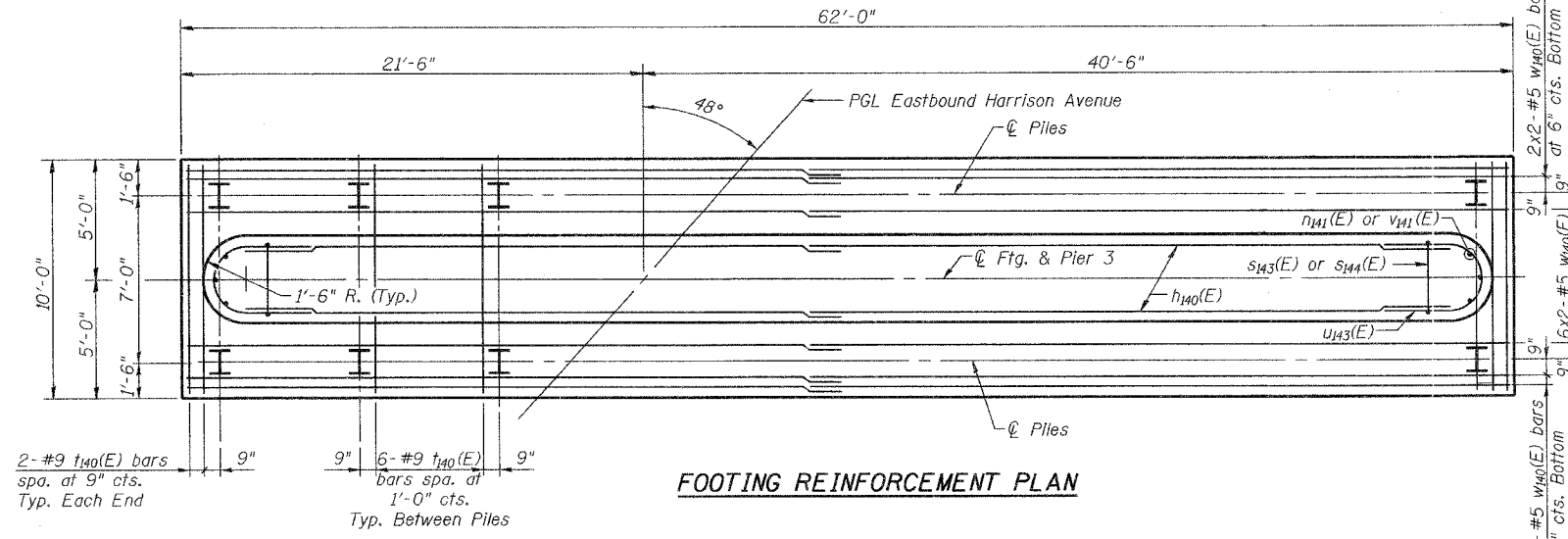
© Copyright Hanson Professional Services Inc. 2008

HANSON

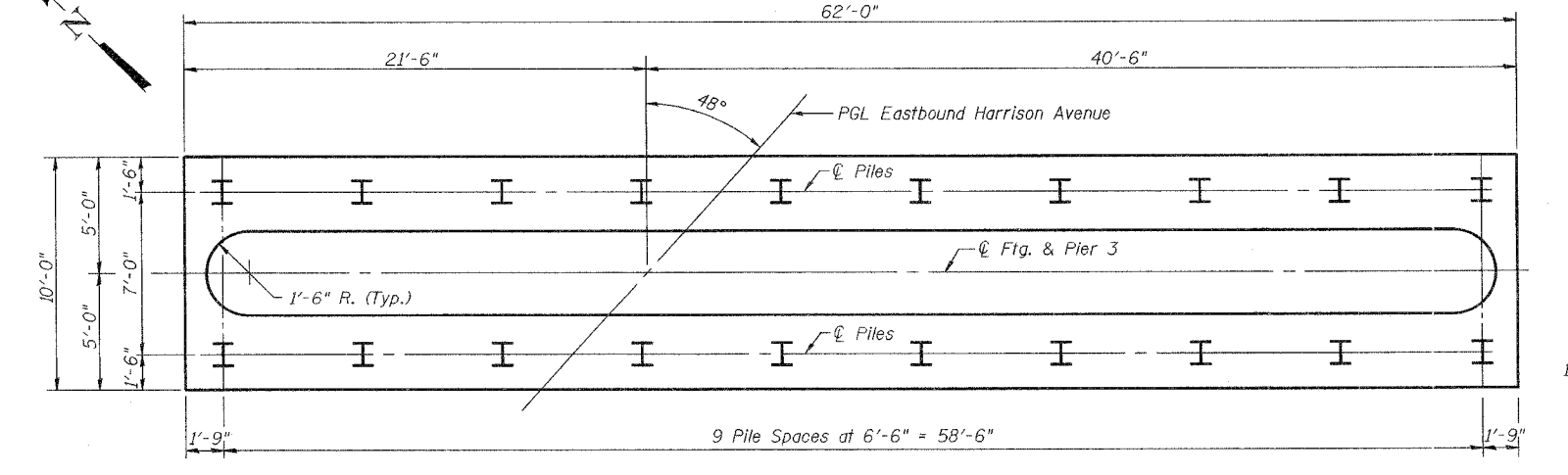
JOB NO.
03R1751
DATE
12/14/06

3-4-616 FM
 12/12/06 03:46 PM
 I:\03\05\03\1751\Struc\Sheet\East Bound\S-040-EB-Pier3.dgn
 LAYOUT: JMK 3/01/06
 DRAWN: MDM/JMK 7/24/06
 REVIEWED: FLN 08/04/06

ROUTE NO.	SECTION	COUNTY	SHEET	SHEET NO.
FAP 0525	-	WINNEBAGO	157	98
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT	50 SHEETS
			02-00518-00-BR	

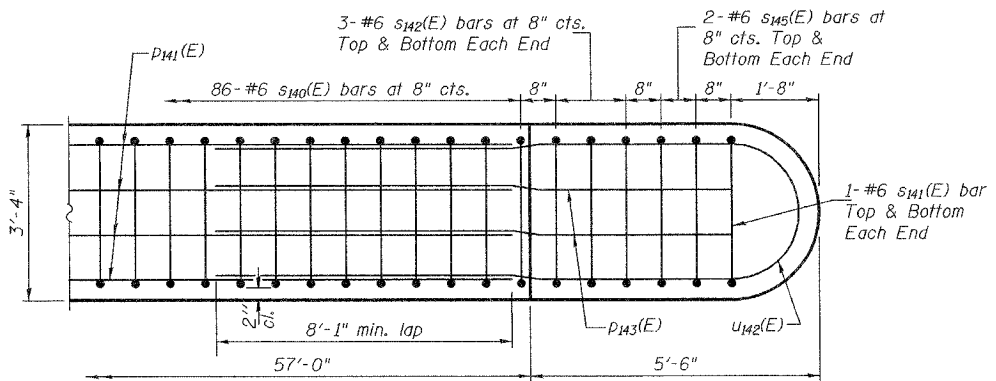


FOOTING REINFORCEMENT PLAN

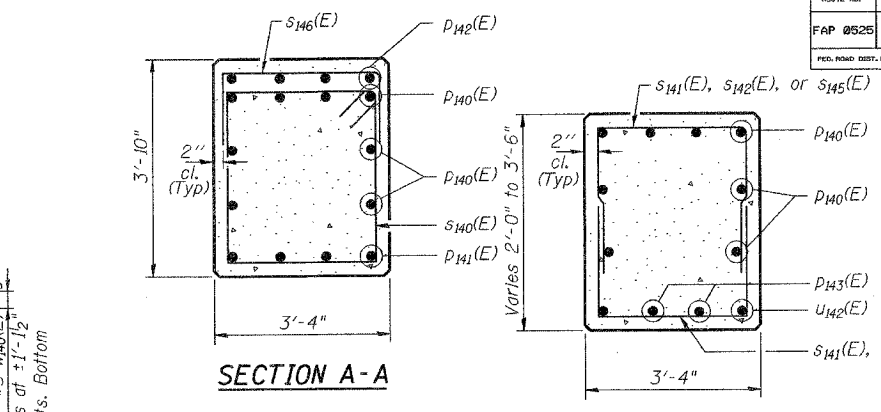


FOOTING PILE PLAN

PILE DATA
 Type & Size: HP 12x53 w/ Pile Shoes
 Nominal Required Bearing: 420 Kips
 Allowable Resistance Available: 140 Kips
 Est. Length: 20'
 No. Req'd: 19 + 1 Test Pile

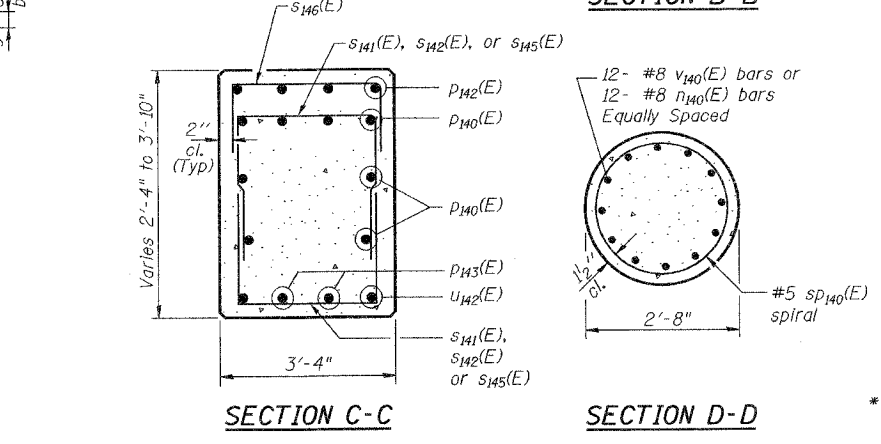


DETAIL A REFLECTED UNDERSIDE PLAN OF PIER CAP END



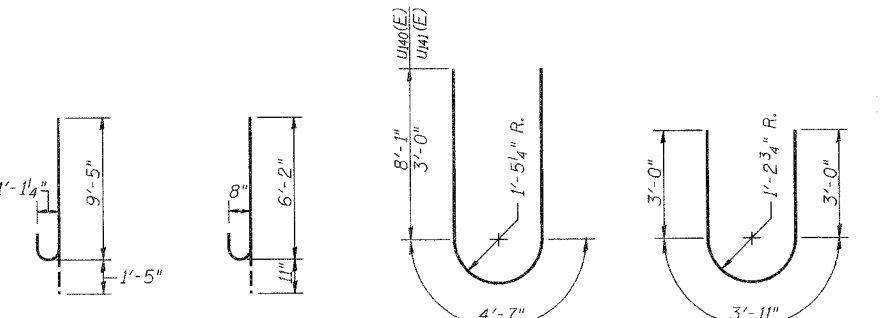
SECTION A-A

SECTION B-B



SECTION C-C

SECTION D-D



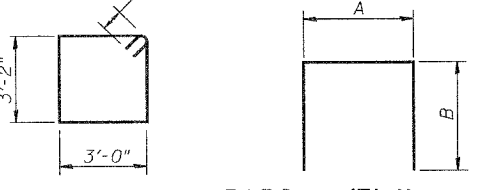
BAR U141(E) BAR N140(E) BARS U140(E) & U141(E) BAR U143(E)

PIER 3 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
N140(E)	38	#5	29'-6"	—
N140(E)	72	#8	7'-1"	U
N141(E)	6	#10	10'-10"	U
P140(E)	16	#9	36'-5"	—
P141(E)	8	#9	32'-7"	—
P142(E)	4	#5	9'-10"	—
P143(E)	4	#9	12'-0"	—
S140(E)	86	#6	13'-8"	□
S141(E)	4	#6	7'-2"	U
S142(E)	12	#6	8'-0"	U
S143(E)	57	#10	26'-6"	U
S144(E)	57	#10	23'-0"	U
S145(E)	8	#6	7'-6"	U
S146(E)	10	#5	7'-2"	U
*SP140(E)	6	#5	15'-2"	W
I140(E)	58	#9	9'-8"	—
U140(E)	4	#9	20'-9"	U
U141(E)	1	#5	10'-7"	U
U142(E)	2	#9	28'-11"	U
U143(E)	18	#5	9'-11"	U
V140(E)	72	#8	17'-0"	—
V141(E)	6	#10	11'-11"	—
W140(E)	20	#5	31'-11"	—
Concrete Structures		Cu. Yd.	195.7	
Reinforcement Bars, Epoxy Coated		Pound	29,520	
Structure Excavation		Cu. Yd.	588.0	
Furnishing Steel Piles, HP 12x53		Foot	380	
Driving Piles		Foot	380	
Pile Shoes		Each	20	
Test Pile Steel HP 12x53		Each	1	
Anchor Bolts, 1/2"		Each	24	

NOTES
 Work this sheet with Sheet 40 of 50.
 Reinforcement Bars designated (E) shall be epoxy coated.
 Bar indicated thus 1x2 - #5 etc. indicates 1 line of bar with 2 lengths per line.
 * Length is spiral height.
 Corporate License Number 184-001-084

MINIMUM BAR LAP

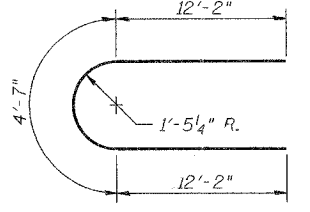


HORIZONTAL

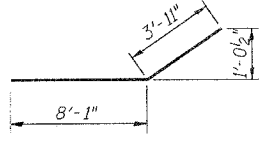
#5 - 2'-2" (Bottom of Footing)
 #5 - 3'-0"
 #9 - 8'-1"

A & B DIMENSIONS

Bar	A	B
S141(E)	3'-0"	2'-1"
S142(E)	3'-0"	2'-6"
S143(E)	2'-8"	11'-8"
S144(E)	2'-8"	10'-2"
S145(E)	3'-0"	2'-3"
S146(E)	3'-0"	2'-1"



BAR U142(E)



BAR P143(E)

PIER 3 DETAILS
 EASTBOUND HARRISON AVENUE
 OVER UP & CC&P RAILROAD
 F.A.P. ROUTE 0525
 SECTION 02-00518-00-BR
 ROCKFORD, ILLINOIS
 STATION 95+72.00
 STRUCTURE NO. 101-6111

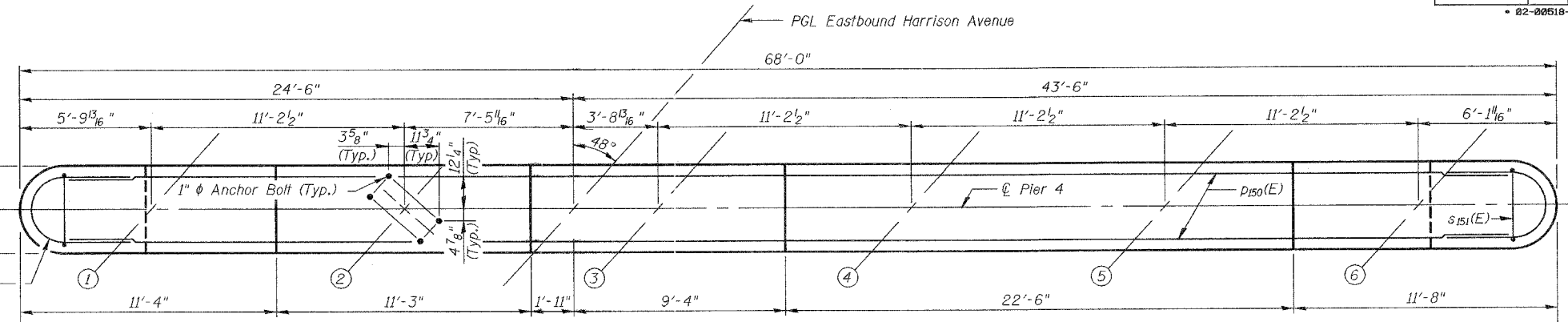
© Copyright Hanson Professional Services Inc. 2006
HANSON
 JOB NO. 03R1751
 DATE 12/14/06

3:23:44 PM 3/20/06
 12/2/2006 03:23 PM
 P:\03\8860\03R1751\Struct\Steel\East Bound\05-04-EB-Pier-3Detail.dgn
 LAYOUT JKR 3/20/06
 DRAWN MGN/JKR 7/24/06
 REVIEWED FLN 08/04/06

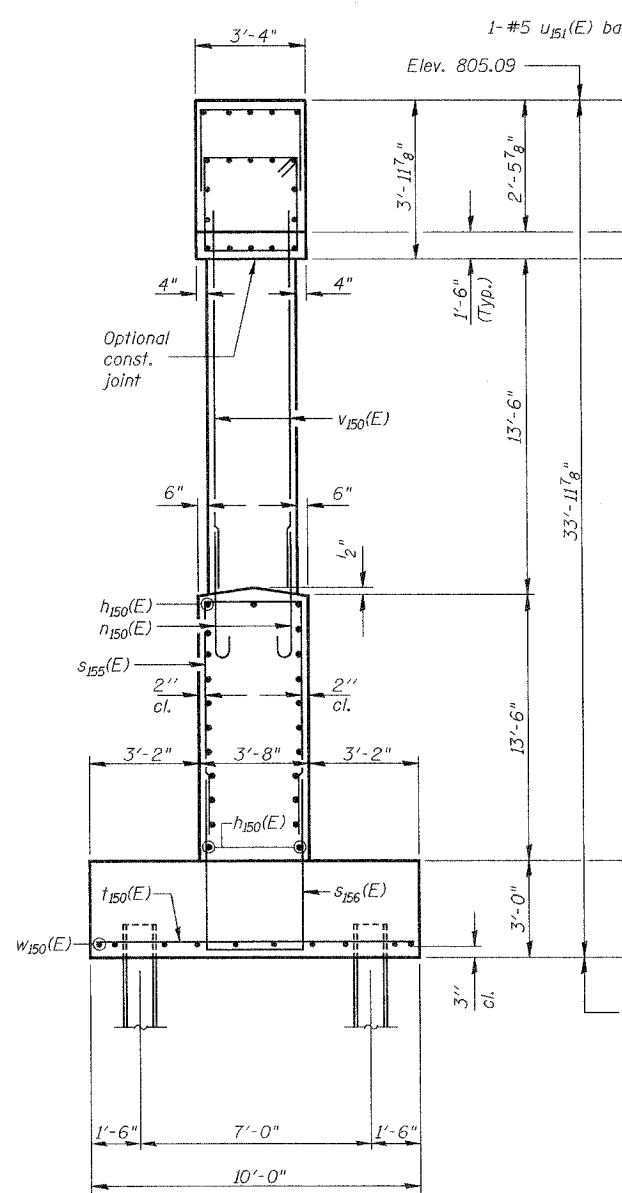
ROUTE NO.	SECTION	COUNTY	STATE	SHEET	SHEET NO.
FAP 0525		WINNEBAGO	IL	99	42
ILLINOIS FEDERAL PROJECT					50 SHEETS
FED. ROAD DIST. NO. 7					
* 02-00518-00-BR					

NOTES

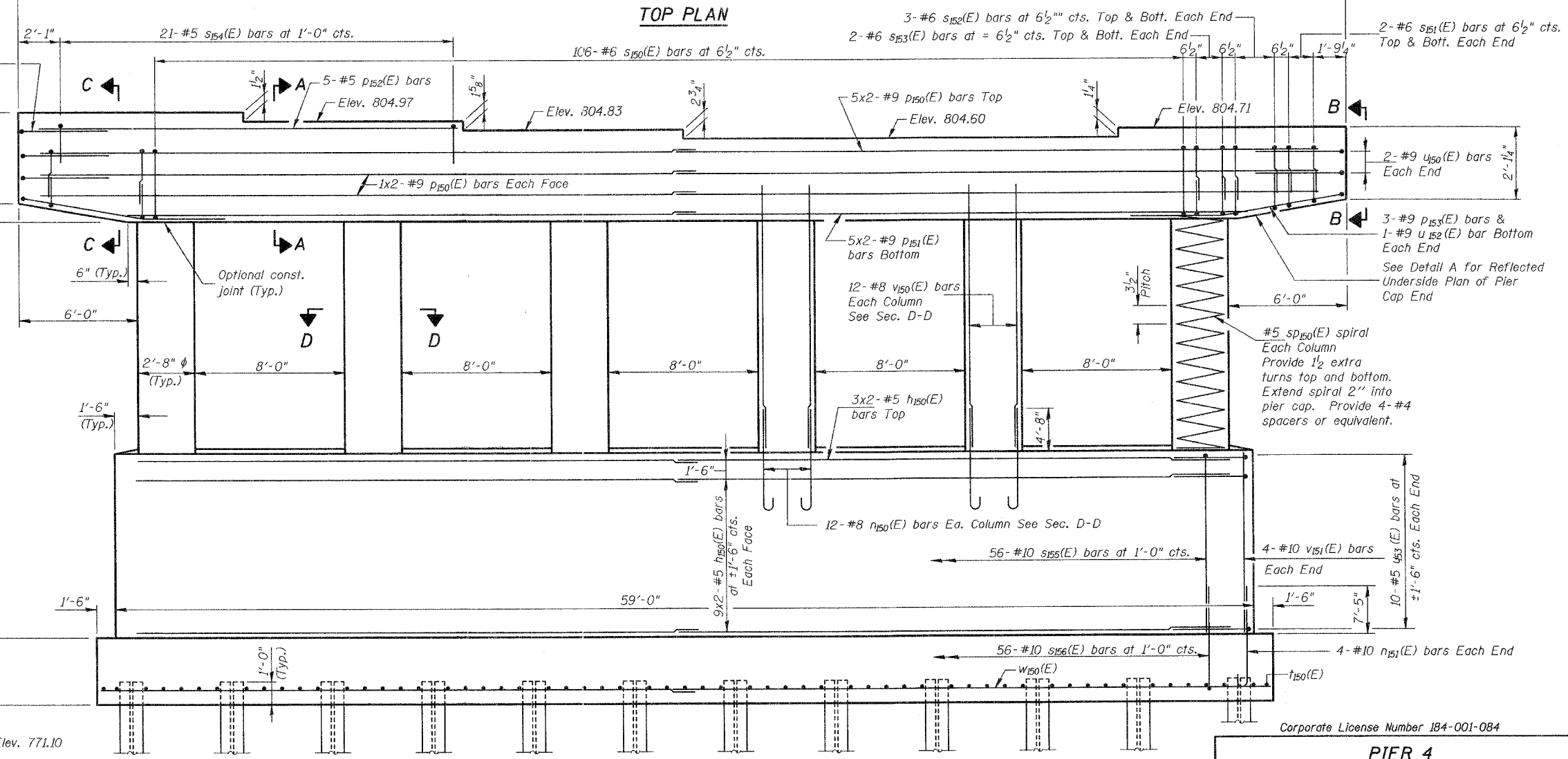
Space Reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 Work this sheet with Sheet 43 of 50.
 Reinforcement Bars designated (E) shall be epoxy coated.
 Bar indicated thus 1x2 - #5 etc. indicates 1 line of bar with 2 lengths per line.



TOP PLAN



END VIEW



ELEVATION
(Looking Northeast)

MINIMUM BAR LAP

- HORIZONTAL**
- #5 - 2'-2" (Bottom of Footing)
 - #5 - 3'-0"
 - #9 - 8'-1"

Corporate License Number 184-001-084

PIER 4

EASTBOUND HARRISON AVENUE
 OVER UP & CC&P RAILROAD
 F.A.P. ROUTE 0525
 SECTION 02-00518-00-BR
 ROCKFORD, ILLINOIS
 STATION 95+72.00
 STRUCTURE NO. 101-6111

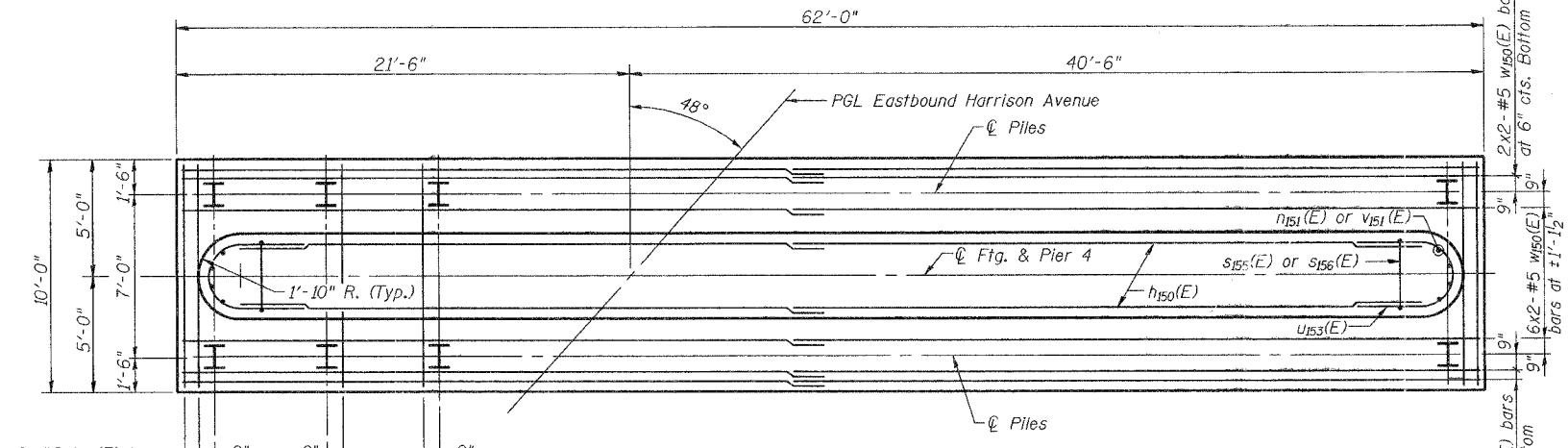
© Copyright Hanson Professional Services Inc. 2006



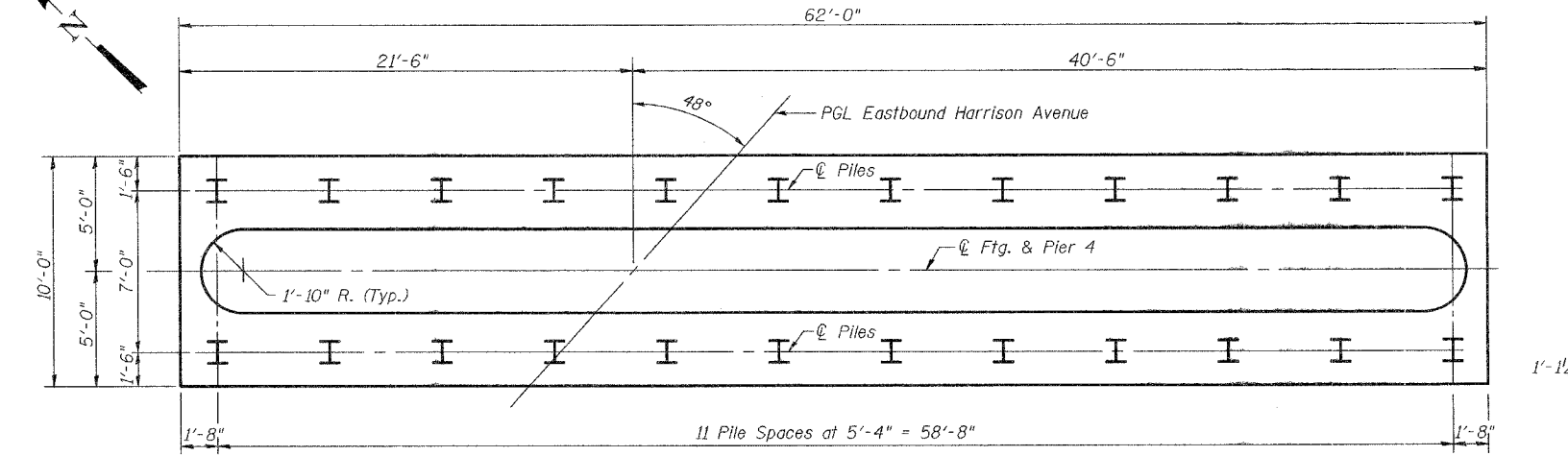
JOB NO.
03R1751
DATE
12/14/06

3:22:35 PM 12/14/06 03:22 PM
 R:\03\00518\00\BR\Struct\Steel\East Bound\02-00518-00-BR-Pier-4.dgn
 LAYOUT 3/20/06
 DRAWN MDM/AMR 7/24/06
 REVIEWED FLN 08/04/06

ROUTE NO.	SECTION	COUNTY	POST MILES	STATION	SHEET NO.
FAP 0525	*	WINNEBAGO	157	100	50 SHEETS
FED. ROAD DIST. NO. 7					
ILLINOIS FED. AID PROJECT					
* 02-00518-00-BR					

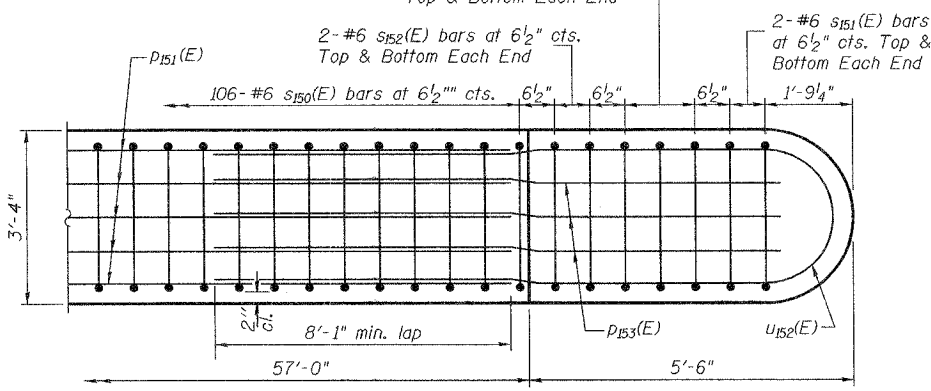


FOOTING REINFORCEMENT PLAN

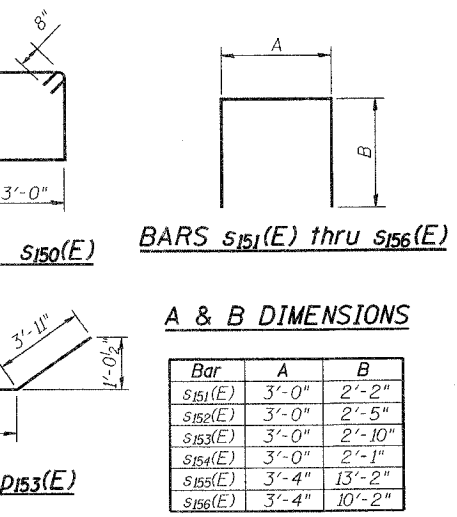
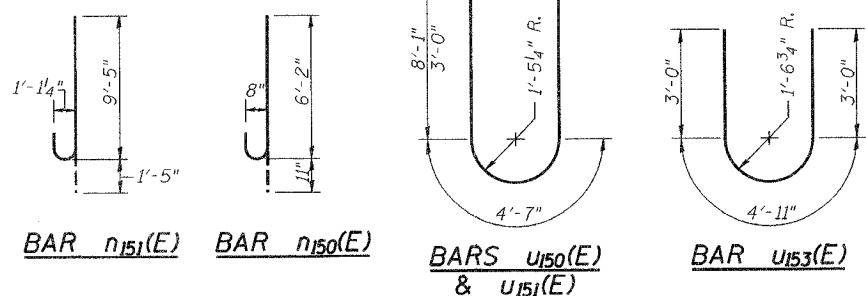
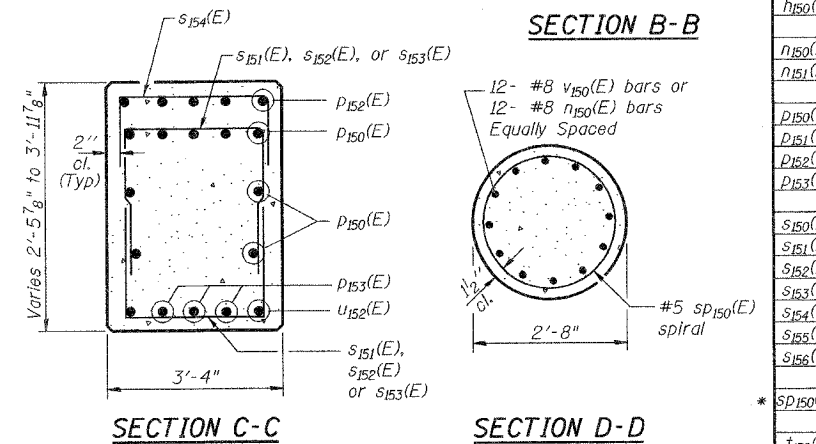
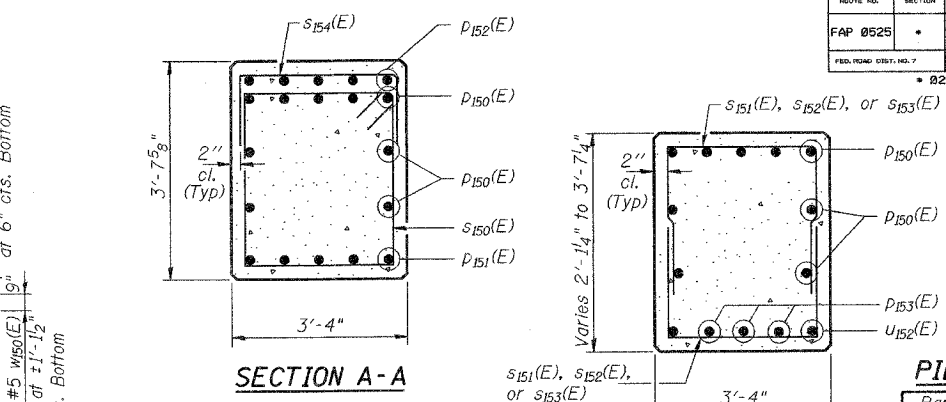


FOOTING PILE PLAN

PILE DATA
 Type & Size: HP 12x53 w/ Pile Shoes
 Nominal Required Bearing : 420 Kips
 Allowable Resistance Available : 140 Kips
 Est. Length: 24'
 No. Req'd: 23 + 1 Test Pile



DETAIL A REFLECTED UNDERSIDE PLAN OF PIER CAP END



PIER 4 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h150(E)	42	#5	29'-2"	—
n150(E)	72	#8	7'-1"	U
n151(E)	8	#10	10'-10"	U
p150(E)	18	#9	36'-5"	—
p151(E)	10	#9	32'-7"	—
p152(E)	5	#5	20'-9"	—
p153(E)	6	#9	12'-0"	—
s150(E)	106	#6	13'-8"	□
s151(E)	8	#6	7'-4"	U
s152(E)	12	#6	7'-10"	U
s153(E)	8	#6	8'-8"	U
s154(E)	21	#5	7'-2"	U
s155(E)	56	#10	29'-8"	U
s156(E)	56	#10	23'-8"	U
* sp150(E)	6	#5	13'-8"	—
† f150(E)	59	#9	9'-8"	—
u150(E)	4	#9	20'-9"	U
u151(E)	1	#5	10'-7"	U
u152(E)	2	#9	28'-11"	U
u153(E)	20	#5	10'-11"	U
v150(E)	72	#8	15'-6"	—
v151(E)	8	#10	13'-2"	—
w150(E)	20	#5	31'-11"	—
Concrete Structures		Cu. Yd.	222.3	
Reinforcement Bars, Epoxy Coated		Pound	31,300	
Structure Excavation		Cu. Yd.	467.5	
Furnishing Steel Piles, HP 12x53		Foot	552	
Driving Piles		Foot	552	
Metal Shoes		Each	24	
Test Pile Steel HP 12x53		Each	1	
Anchor Bolts, 1"		Each	24	

NOTES
 Work this sheet with Sheet 42 of 50.
 Reinforcement Bars designated (E) shall be epoxy coated.
 Bar indicated thus 1x2 - #5 etc. indicates 1 line of bar with 2 lengths per line.
 * Length is spiral height.

PIER 4 DETAILS
 EASTBOUND HARRISON AVENUE
 OVER UP & CC&P RAILROAD
 F.A.P. ROUTE 0525
 SECTION 02-00518-00-BR
 ROCKFORD, ILLINOIS
 STATION 95+72.00
 STRUCTURE NO. 101-6111

© Copyright Hanson Professional Services Inc. 2006

HANSON

JOB NO. 03R1751
 DATE 12/14/06

3:21:58 PM 3/10/06
 12/12/2006 03:21:58 PM
 I:\03\proj\03R1751\Struct\Sheet\East\Barrns\045-EB-Pier.dwg
 LAYOUT JRR 3/10/06
 DRAWN MDW/KR 7/24/06
 REVIEWED FLN 08/04/06