

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PLANS FOR

PROPOSED FEDERAL-AID HIGHWAY

**T.R. 73 (ALLENDALE ROAD)
OVER VANDER KARR CREEK
SECTION 05-00310-00-BR
PROJECT NO: BROS-0111(44)
BRIDGE REPLACEMENT
MCHENRY COUNTY
C-91-125-05**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
73	05-00310-00-BR	MCHENRY	44	1
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 63114	

FOR INDEX OF SHEETS SEE SHEET 2

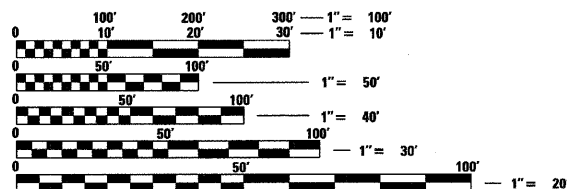
DESIGN DESIGNATION

ALLENDALE ROAD
FUNCTIONAL CLASSIFICATION: LOCAL ROAD
DESIGN SPEED = 60 MPH
POSTED SPEED = 55 MPH

TRAFFIC DATA

ALLENDALE ROAD
EXISTING ADT = 580 (2005)
DESIGN ADT = 740 (2030)

PROJECT LOCATED IN THE
GREENWOOD TOWNSHIP

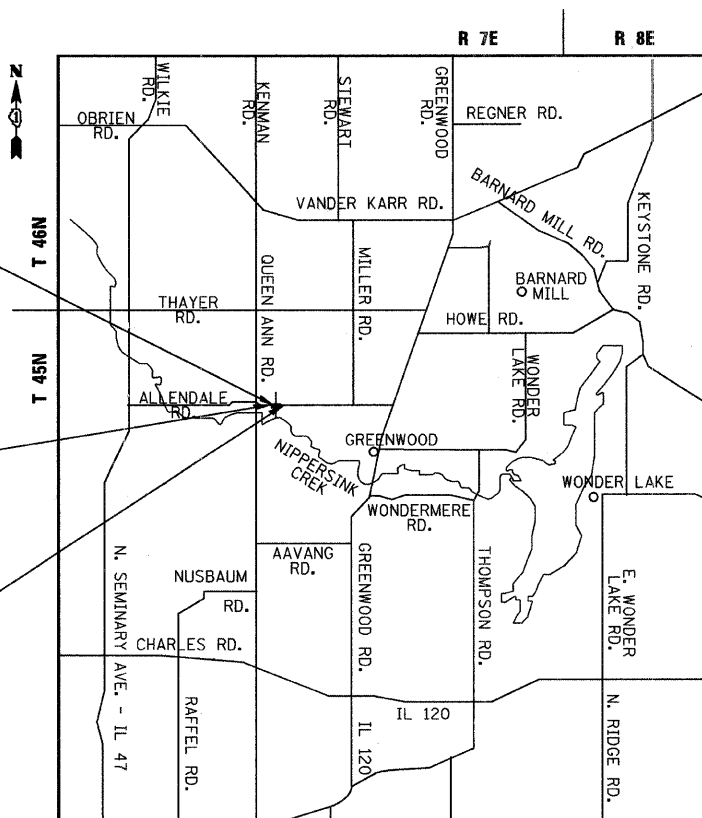


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.



CONTRACT NO : 63114

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



SN: 056-3173
STA. 107+00.88
1-SPAN PPC
I-BEAM STRUCTURE
ON 2 INTEGRAL
ABUTMENTS

BEGIN PROJECT
STA. 102+50

END PROJECT
STA. 111+50

LOCATION MAP
SCALE: 1" = 500'

GROSS AND NET LENGTH OF PROJECT = 900 FT = 0.17 MI

THE PROJECT CONSISTS OF
THE REPLACEMENT OF
SN: 056-3064 WITH
SN: 056-3173 OVER
VANDER KARR CREEK;
WIDENING AND RECONSTRUCTION
OF ALLENDALE ROAD FROM
STA. 102+50 TO STA. 111+50



LOCATION OF SECTION INDICATED THIS: - [Symbol] -

AGENCY RESPONSIBLE FOR LETTING

APPROVED DECEMBER 19, 2008
Joseph R. Kopycki Jr.
COUNTY OF MCHENRY, COUNTY ENGINEER

PASSED FEBRUARY 11, 2008
Christophe Holt
DISTRICT 1 ENGINEER OF LOCAL ROAD & STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW FEBRUARY 11, 2008
Diana M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

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OF THE STATE OF ILLINOIS

Ciorba Group, Inc.

DESIGN FIRM
REGISTRATION NUMBER

184-001016

CONSULTING ENGINEERS
SUITE 402, 5507 NORTH CUMBERLAND AVE
CHICAGO, ILLINOIS 60656 :: (773) 775-4009

PLANS PREPARED BY: CIORBA GROUP

ASSOCIATE FIELD ENGINEER: KEVIN STALLWORTH (847) 705-4169

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39	ARTERIAL ROAD INFORMATION SIGN (TC-22)
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STATE STANDARDS

000001-05	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
280001-04	TEMPORARY EROSION CONTROL SYSTEMS
420401-07	BRIDGE APPROACH PAVEMENT
515001-03	NAME PLATE FOR BRIDGES
542301-02	PRECAST REINFORCED CONCRETE FLARED END SECTION
601101-01	CONCRETE HEADWALL FOR PIPE DRAIN
602011-01	CATCH BASIN TYPE C
604071-04	FRAME AND GRATE TYPE 20
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB & GUTTER
606201-02	TYPE B GUTTER (INLET, OUTLET & ENTRANCE)
630001-08	STEEL PLATE BEAM GUARDRAIL
630201-06	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-05	TRAFFIC BARRIER TERMINAL, TYPE 2
631026-05	TRAFFIC BARRIER TERMINAL, TYPE 5
631031-07	TRAFFIC BARRIER TERMINAL, TYPE 6
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701901-01	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-02	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

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Ciorba Group, Inc.
 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60656
 Tel. 773.775.4009 Fax 773.775.4014

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PLOT DATE = 2/6/2009	DATE - 10/31/2008	REVISED -

**McHENRY COUNTY
 DIVISION OF TRANSPORTATION**

TR 73 / ALLENDALE ROAD OVER VANDER KARR CREEK INDEX AND STANDARDS			
SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
73	05-00310-00-BR	McHENRY	44	2
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 63114	

SUMMARY OF QUANTITIES			TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
CODE NO.	DESCRIPTION	UNIT		ROADWAY 1000-2A	BRIDGE X081- 2A
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	690	690	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	430	430	
20101100	TREE TRUNK PROTECTION	EACH	15	15	
20200100	EARTH EXCAVATION	CU YD	910	910	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	820	820	
20400800	FURNISHED EXCAVATION	CU YD	2,500	2,500	
20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	210		210
20800150	TRENCH BACKFILL	CU YD	10	10	
* 21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	5,800	5,800	
* 25000210	SEEDING, CLASS 2A	ACRE	2	2	
* 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	110	110	
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	110	110	
* 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	110	110	
* 25100630	EROSION CONTROL BLANKET	SQ YD	5,800	5,800	
28000255	TEMPORARY EROSION CONTROL SEEDING	ACRE	2	2	
28000300	TEMPORARY DITCH CHECKS	EACH	16	16	
28000400	PERIMETER EROSION BARRIER	FOOT	2,100	2,100	
28000500	INLET AND PIPE PROTECTION	EACH	2	2	
28000510	INLET FILTERS	EACH	2	2	
28100101	STONE RIPRAP, CLASS A1	SQ YD	15	15	
28100105	STONE RIPRAP, CLASS A3	SQ YD	10	10	
28100107	STONE RIPRAP, CLASS A4	SQ YD	15	15	
28100705	STONE DUMPED RIPRAP, CLASS A3	SQ YD	95		95
28200200	FILTER FABRIC	SQ YD	120	25	95
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	130	130	
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	2	2	
40600895	CONSTRUCTING TEST STRIP	EACH	1	1	
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	15	15	
40701801	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 6"	SQ YD	1,150	1,150	
42001165	BRIDGE APPROACH PAVEMENT	SQ YD	275	275	
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	760	760	
44000100	PAVEMENT REMOVAL	SQ YD	1,800	1,800	
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	160	160	
44000300	CURB REMOVAL	FOOT	70	70	
44000700	APPROACH SLAB REMOVAL	SQ YD	100	100	
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	1,150	1,150	
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1		1
50102400	CONCRETE REMOVAL	CU YD	14.0		14.0
50105220	PIPE CULVERT REMOVAL	FOOT	50	50	
50157307	PROTECTIVE SHIELD, SPECIAL	L SUM	1		1
50200100	STRUCTURE EXCAVATION	CU YD	364		364
50300225	CONCRETE STRUCTURES	CU YD	43.4		43.4
50300254	RUBBED FINISH	SQ FT	1,023		1,023
50300255	CONCRETE SUPERSTRUCTURE	CU YD	147.4		147.4
50300260	BRIDGE DECK GROOVING	SQ YD	394		394

* DENOTES SPECIALTY ITEM

SUMMARY OF QUANTITIES			TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
CODE NO.	DESCRIPTION	UNIT		ROADWAY 1000-2A	BRIDGE X081- 2A
50300300	PROTECTIVE COAT	SQ YD	498		498
50401105	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE I-BEAMS, 54 IN.	FOOT	548.5		548.5
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	36,600		36,600
50800515	BAR SPLICERS	EACH	80		80
51200959	FURNISHING METAL SHELL PILES 14" X 0.312"	FOOT	810		810
51202305	DRIVING PILES	FOOT	810		810
51203200	TEST PILE METAL SHELLS	EACH	2		2
51204650	PILE SHOES	EACH	20		20
51500100	NAME PLATES	EACH	1		1
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	2	2	
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	4	4	
542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	80	80	
55019500	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 12"	FOOT	15	15	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	127		127
60109580	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	170		170
60208210	CATCH BASINS, TYPE C, TYPE 20 FRAME AND GRATE	EACH	2	2	
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	2	2	
60600605	CONCRETE CURB, TYPE B	FOOT	20	20	
* 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	320	320	
* 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1	
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3	3	
63200310	GUARDRAIL REMOVAL	FOOT	198	198	
66101150	HOT-MIX ASPHALT SHOULDER CURB	FOOT	20	20	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6	
67100100	MOBILIZATION	L SUM	1	1	
70102550	TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR	EACH	1	1	
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	12	12	
72000100	SIGN PANEL - TYPE 1	SQ FT	5	5	
72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	7	7	
72900100	METAL POST - TYPE A	FOOT	15	15	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1,725	1,725	
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	175	175	
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	10	10	
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	3	3	
* A2002920	TREE, CELTIS OCCIDENTALIS (COMMON HACKBERRY), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	16	16	
* A2005020	TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), 2-1/2" CALIPER, BALLED AND BURLAPPED	EACH	16	16	
* C2004224	SHRUB, LIGUSTRUM OBTUSIFOLIUM REGELIANUM (REGEL PRIVET), 2' HEIGHT, BALLED AND BURLAPPED	EACH	22	22	
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	52	52	
X0325862	CONCRETE BRIDGE RAILING	FOOT	186		186
XX000714	FENCE TO BE REMOVED AND RE-ERECTED	FOOT	560	560	
XX000856	MAILBOX REMOVAL AND RELOCATION	EACH	2	2	
Z0001050	AGGREGATE SUBGRADE, 12"	SQ YD	2,000	2,000	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
Z0064800	SELECTIVE CLEARING	UNIT	1	1	
△ Z0076600	TRAINEES	HOUR	500	500	

△ Y080

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Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014

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**McHENRY COUNTY
DIVISION OF TRANSPORTATION**

**TR 73 / ALLENDALE ROAD
OVER VANDER KARR CREEK
SUMMARY OF QUANTITIES**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE. 73	SECTION 05-00310-00-BR	COUNTY McHENRY	TOTAL SHEETS 44	SHEET NO. 4
FED. ROAD DIST. NO. ILLINOIS			FED. AID PROJECT	
			CONTRACT NO. 63114	

EARTHWORK SCHEDULE						
STATION	20200100		20201200		EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	EARTH EXCAVATION	EARTH EXCAVATION VOLUME USED (15% SHRINKAGE)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL			
LINE "ALLENDALE"	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
102+50 TO 103+00	50	42	21	3	39	
103+00 TO 103+50	60	51	41	10	41	
103+50 TO 104+00	78	66	45	14	53	
104+00 TO 104+50	100	85	49	17	68	
104+50 TO 105+00	114	97	53	21	75	
105+00 TO 105+50	112	95	57	28	67	
105+50 TO 106+00	69	58	55	81	-23	
106+00 TO 106+50	16	14	43	206	-193	
106+50 TO 106+54	0	0	3	24	-24	
SW BRIDGE CONE	0	0	0	30	-30	
NW BRIDGE CONE	0	0	0	14	-14	
WEST ABUTMENT	53	45	0	0	45	
EAST ABUTMENT	53	45	0	0	45	
SE BRIDGE CONE	0	0	0	12	-12	
NE BRIDGE CONE	0	0	0	31	-31	
107+48 TO 107+50	0	0	2	25	-25	
107+50 TO 108+00	0	0	63	606	-606	
108+00 TO 108+50	0	0	85	716	-716	
108+50 TO 109+00	0	0	86	687	-687	
109+00 TO 109+50	0	0	67	449	-449	
109+50 TO 110+00	11	9	47	164	-154	
110+00 TO 110+50	55	46	42	43	4	
110+50 TO 111+00	78	66	38	13	53	
111+00 TO 111+50	55	47	20	4	42	
TOTALS	903	768	818	3,200	-2,433	

SUMMARY		
20200100	20400800	20201201
EARTH EXCAVATION	FURNISHED EXCAVATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
(CU YD)	(CU YD)	(CU YD)
910	2,500	820

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CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014

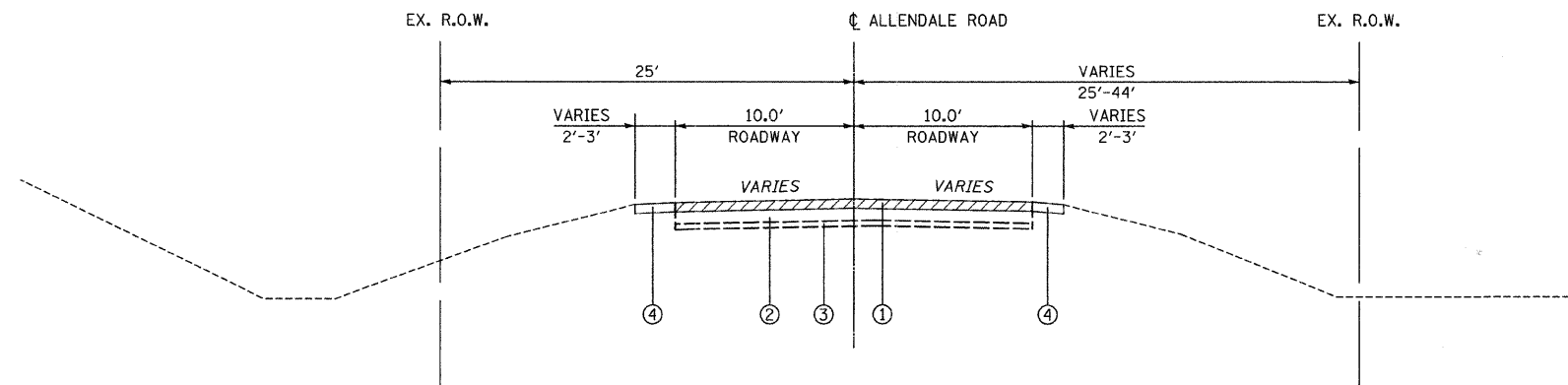
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**McHENRY COUNTY
DIVISION OF TRANSPORTATION**

**TR 73 /ALLENDALE ROAD
OVER VANDER KARR CREEK
EARTHWORK SCHEDULES**

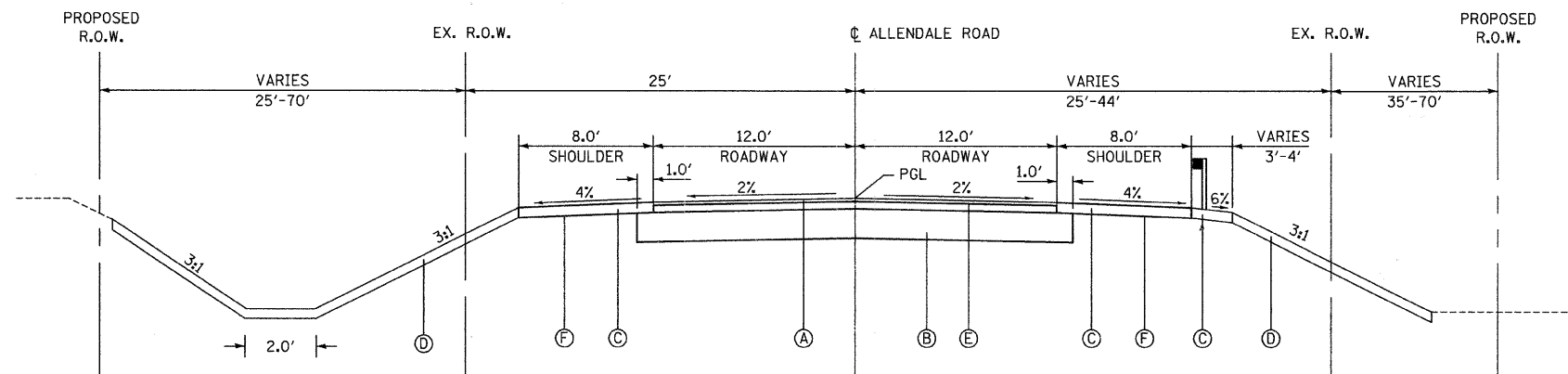
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F.A. RTE. 73	SECTION 05-00310-00-BR	COUNTY McHENRY	TOTAL SHEETS 44	SHEET NO. 5
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63114	



ALLENDALE ROAD
EXISTING TYPICAL SECTION
STA. 102+50.00 TO STA. 106+70.60
STA. 107+35.46 TO STA. 111+50.00

- EXISTING CONDITIONS**
- ① HOT-MIX ASPHALT SURFACE AND BINDER COURSE, 5" •
 - ② AGGREGATE BASE COURSE, 10"
 - ③ AGGREGATE SUB-BASE ••
 - ④ AGGREGATE SHOULDER ••
 - REMOVAL PAID AS PAVEMENT REMOVAL
 - REMOVAL PAID AS EARTH EXCAVATION
 - ▨ PAVEMENT REMOVAL



ALLENDALE ROAD
PROPOSED TYPICAL SECTION
STA. 102+50.00 TO STA. 105+38.00
STA. 108+63.00 TO STA. 111+50.00

- PROPOSED IMPROVEMENTS**
- Ⓐ HOT-MIX ASPHALT PAVEMENT, (FULL DEPTH), 6" (2" SURFACE, 4" BINDER)
 - Ⓑ AGGREGATE SUBGRADE, 12"
 - Ⓒ HOT-MIX ASPHALT SHOULDER, 6"
 - Ⓓ TOPSOIL, FURNISH AND PLACE (6") AND SEEDING 2A PER LANDSCAPING PLAN
 - Ⓔ BITUMINOUS MATERIALS (PRIME COAT)
 - Ⓕ EMBANKMENT

HOT-MIX ASPHALT MIXTURE REQUIREMENTS CHART

OPERATIONS	MIXTURE TYPE	AC TYPE	PERCENT AIR VOIDS
ROADWAY RECONSTRUCTION	HOT-MIX ASPHALT PAVEMENT, (FULL-DEPTH), 6" (2" SURFACE COURSE, MIX C, N50 (IL 9.5 mm) 4" BINDER COURSE, IL-19.0, N50)	PG 64-22 PG 64-22*	4% @ 50 GYR. 4% @ 50 GYR.
SHOULDER RECON	HOT-MIX ASPHALT SHOULDER, 6"	PG 64-22*	2% @ 30 GYR.
DRIVEWAY	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (IL-9.5), 2"	PG 64-22	4% @ 50 GYR.
	HOT-MIX ASPHALT BASE COURSE, 6"	PG 64-22*	4% @ 50 GYR.
BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (IL-9.5), 2"	PG 64-22	4% @ 70 GYR.
	HOT-MIX ASPHALT BINDER COURSE, IL 19.0 mm, N70, 4" TO 13"	PG 64-22*	4% @ 70 GYR.

NOTE:
THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURES QUANTITIES IS 112 LBS/SOYD/IN
*WHEN RAP EXCEEDS 20% THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22

ALLENDALE ROAD

STRUCTURAL DESIGN FACTOR:	YEAR 2020
PV = 684	SU = 18
MU = 18	
ROAD/STREET CLASSIFICATION:	CLASS III
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:	
P = 95	S = 2.5
M = 2.5	
TRAFFIC FACTOR:	ACTUAL TF = 0.09
AC TYPE = PG 64-28	MINIMUM TF = 0.05
AC GRADE: BINDER = PG 64-28	SURFACE = PG 64-28
SUBGRADE SUPPORT RATING:	
SSR = POOR	STA. 102+50 TO STA. 111+50

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Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014

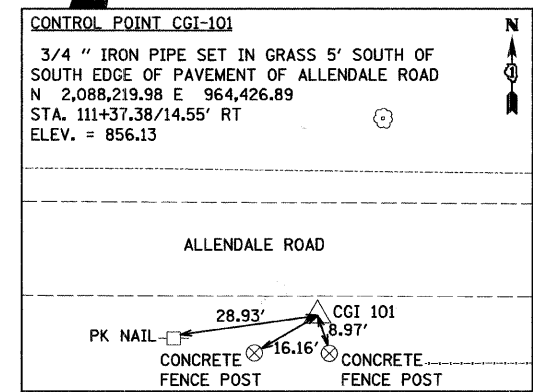
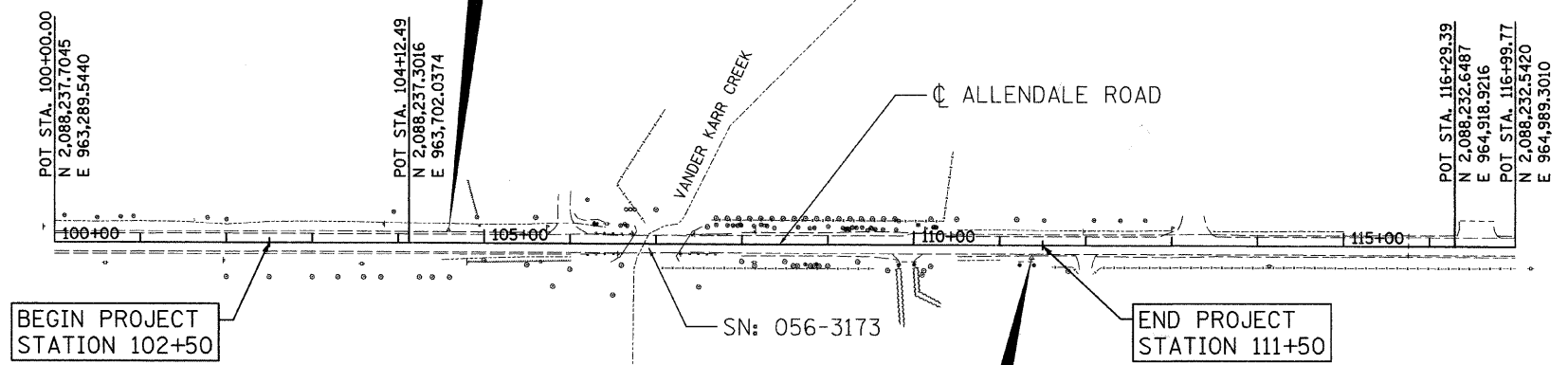
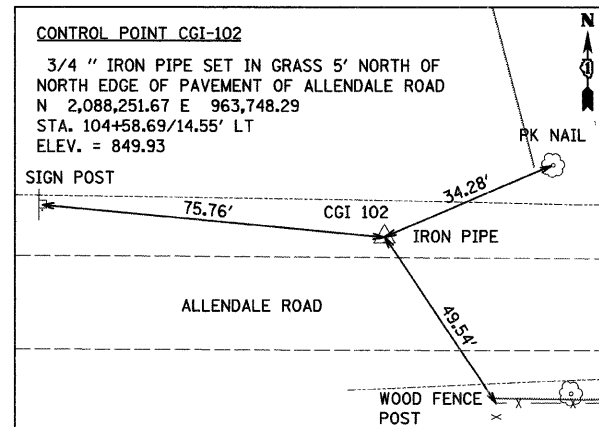
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McHENRY COUNTY
DIVISION OF TRANSPORTATION

TR 73 / ALLENDALE ROAD
OVER VANDER KARR CREEK
TYPICAL SECTIONS

SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE. 73	SECTION 05-00310-00-BR	COUNTY McHENRY	TOTAL SHEETS 44	SHEET NO. 6
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63114	



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Ciorba Group, Inc.
 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60656
 Tel. 773.775.4009 Fax 773.775.4014

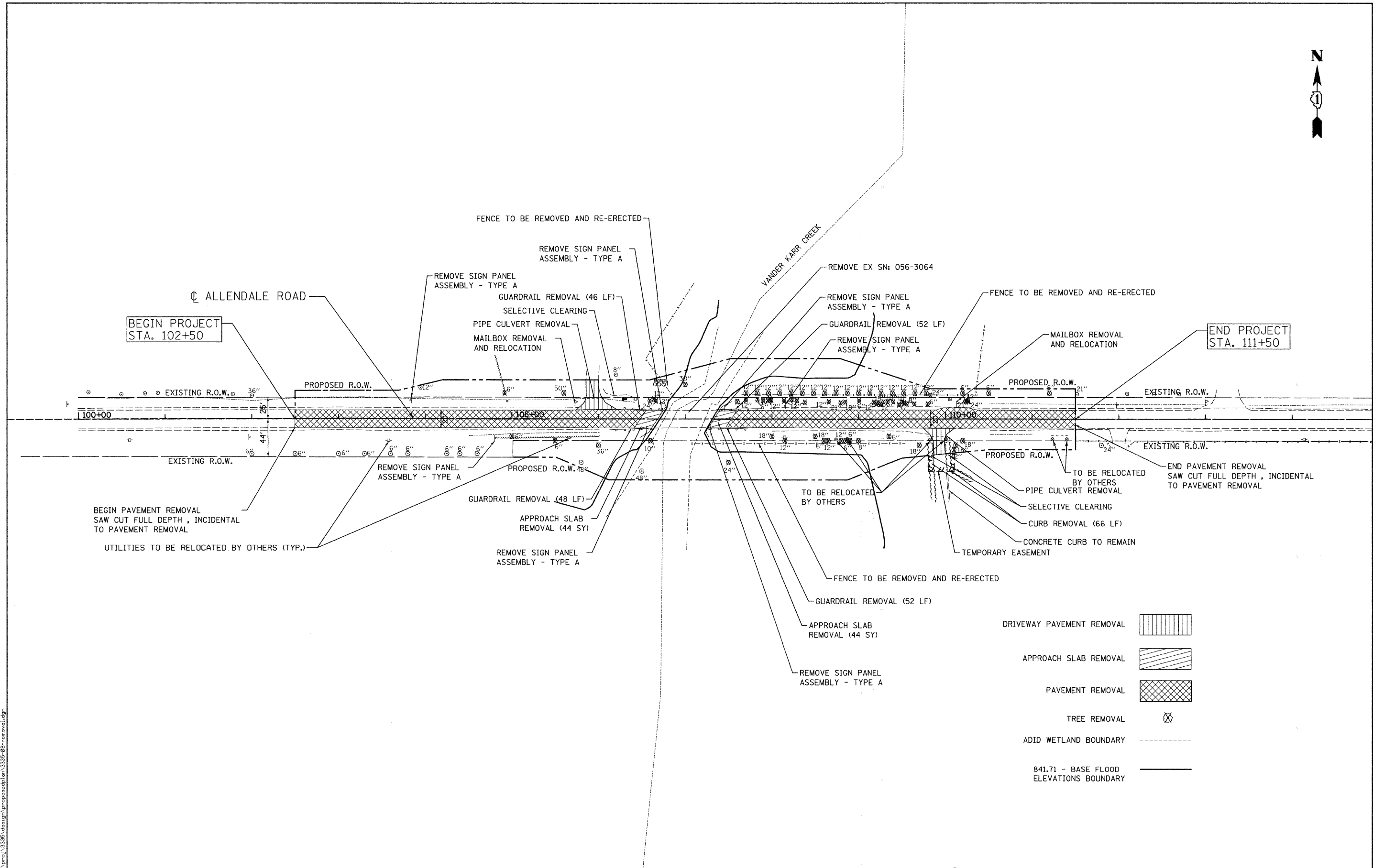
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	DRAWN - MWR	REVISED -
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PLOT DATE = 2/6/2009	DATE - 10/31/2008	REVISED -

McHENRY COUNTY
DIVISION OF TRANSPORTATION

TR 73/ALLENDALE ROAD
OVER VANDER KARR
ALIGNMENT, TIES, AND BENCHMARKS

SCALE: 1" = 100' SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE. 73	SECTION 05-00310-00-BR	COUNTY McHENRY	TOTAL SHEETS 44	SHEET NO. 7
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 63114	



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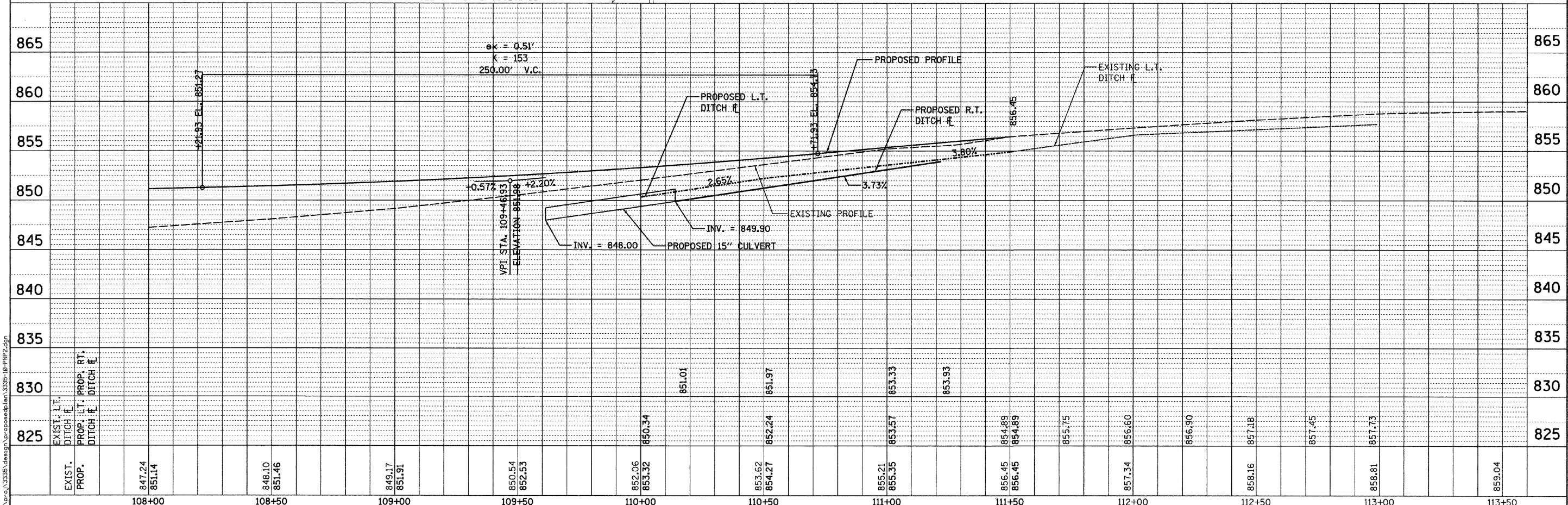
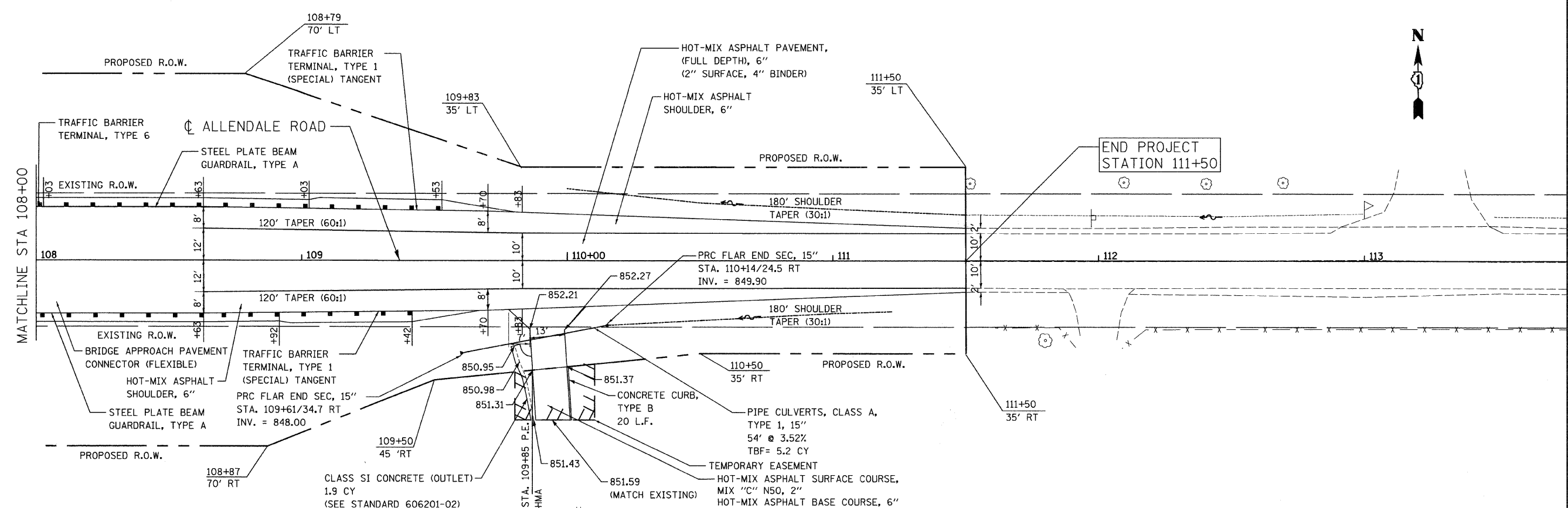
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PLOT SCALE = 50.0000' / IN.	CHECKED - MJL	REVISED -
PLOT DATE = 2/6/2009	DATE - 10/31/2008	REVISED -

McHENRY COUNTY
DIVISION OF TRANSPORTATION

TR 73 / ALLENDALE ROAD
OVER VANDER KARR CREEK
EXISTING CONDITIONS AND REMOVAL PLAN

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE. 73	SECTION 05-00310-00-BR	COUNTY McHENRY	TOTAL SHEETS 44	SHEET NO. 8
FED. ROAD DIST. NO. - ILLINOIS FED. AID PROJECT			CONTRACT NO. 63114	



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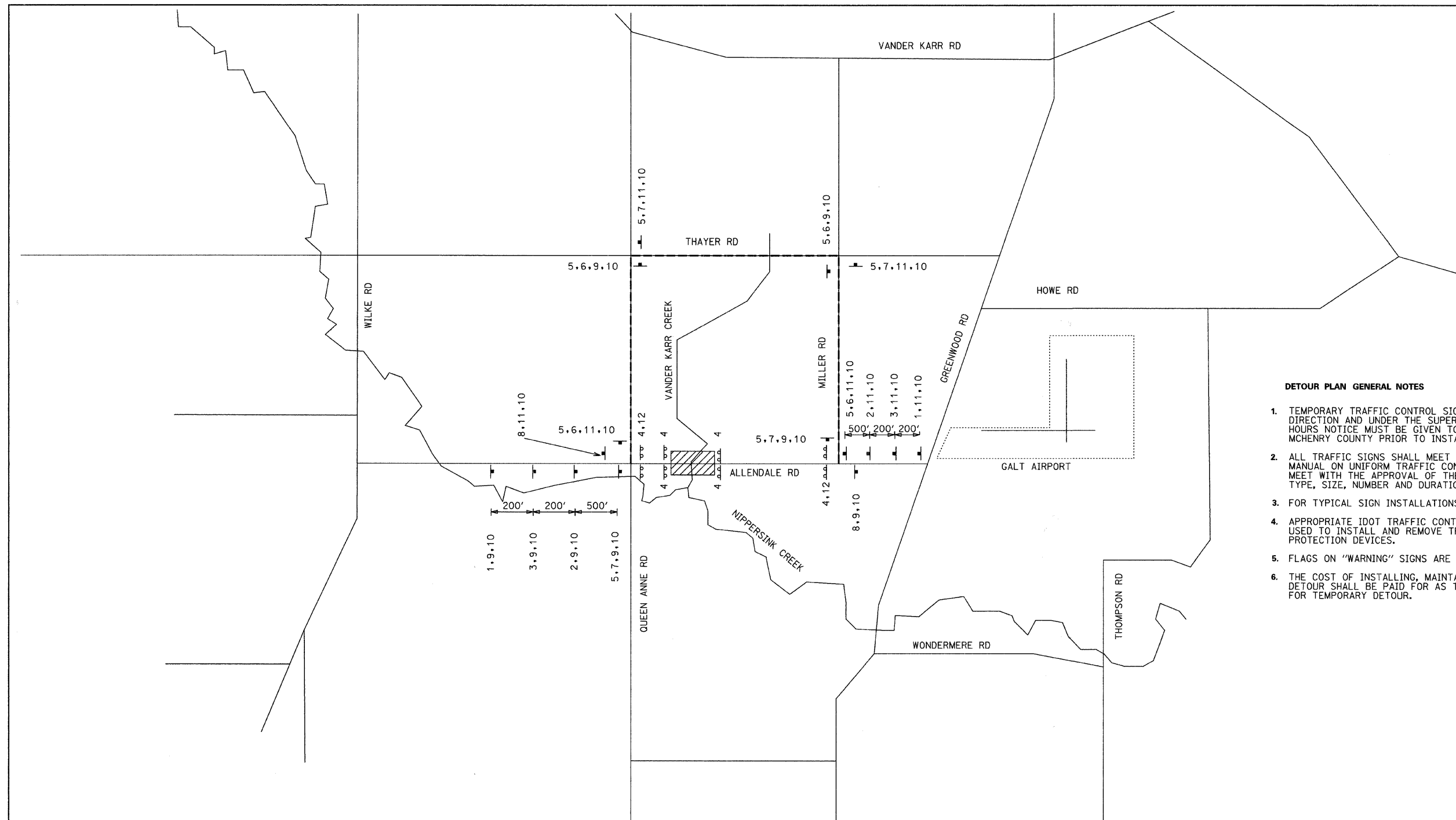
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PLOT DATE = 2/6/2009	CHECKED - MJL	REVISED -
	DATE - 10/31/2008	REVISED -

**McHENRY COUNTY
DIVISION OF TRANSPORTATION**

**TR 73/ALLENDALE ROAD
OVER VANDER KARR CREEK
PROPOSED PLAN AND PROFILE**

SCALE: 1" = 20' SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE. 73	SECTION 05-00310-00-BR	COUNTY McHENRY	TOTAL SHEETS 44	SHEET NO. 10
FED. ROAD DIST. NO. - [ILLINOIS] FED. AID PROJECT			CONTRACT NO. 63114	

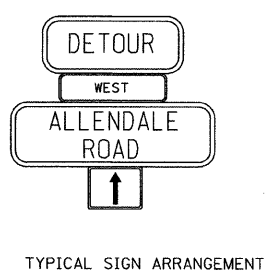


- DETOUR PLAN GENERAL NOTES**
1. TEMPORARY TRAFFIC CONTROL SIGNS MUST BE INSTALLED AT THE DIRECTION AND UNDER THE SUPERVISION OF THE ENGINEER. 48 HOURS NOTICE MUST BE GIVEN TO THE ENGINEER AND MCHENRY COUNTY PRIOR TO INSTALLATION.
 2. ALL TRAFFIC SIGNS SHALL MEET WITH THE APPROVAL OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND SHALL MEET WITH THE APPROVAL OF THE ENGINEER REGARDING LOCATION, TYPE, SIZE, NUMBER AND DURATION.
 3. FOR TYPICAL SIGN INSTALLATIONS, SEE STANDARD #701901-01
 4. APPROPRIATE IDOT TRAFFIC CONTROL STANDARDS SHALL BE USED TO INSTALL AND REMOVE TRAFFIC CONTROL AND PROTECTION DEVICES.
 5. FLAGS ON "WARNING" SIGNS ARE OPTIONAL.
 6. THE COST OF INSTALLING, MAINTAINING AND REMOVING THE DETOUR SHALL BE PAID FOR AS TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR.

DETOUR PLAN LEGEND

- WORK ZONE (ROAD CLOSED)
- TYPE III BARRICADE
- DETOUR SIGN
- DETOUR ROUTE

1,2,3 DETOUR SIGN TYPE



1) ROAD CLOSED AHEAD W20-3 48" X 48"	2) DETOUR 500 FT W20-2 48" X 48"	3) DETOUR AHEAD W20-2 48" X 48"	4) BRIDGE OUT R11-2 48" X 30"	5) DETOUR M4-8 24" X 12"	6) → M6-1R 21" X 15"	7) ← M6-1L 21" X 15"
8) END DETOUR M4-8A 24" X 18"	9) EAST M3-2 24" X 12"	10) ALLENDALE ROAD W16-8 VAR. X 15"	11) WEST M3-4 24" X 12"	12) DETOUR → M4-10 48" X 18"		

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Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014

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DATE = 10/31/2008	REVISED -	

**McHENRY COUNTY
DIVISION OF TRANSPORTATION**

TR 73 / ALLENDALE ROAD OVER VANDER KARR CREEK TEMPORARY DETOUR PLAN	
SCALE: N.T.S.	SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE. 73	SECTION 05-00310-00-BR	COUNTY McHENRY	TOTAL SHEETS 44	SHEET NO. 11
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

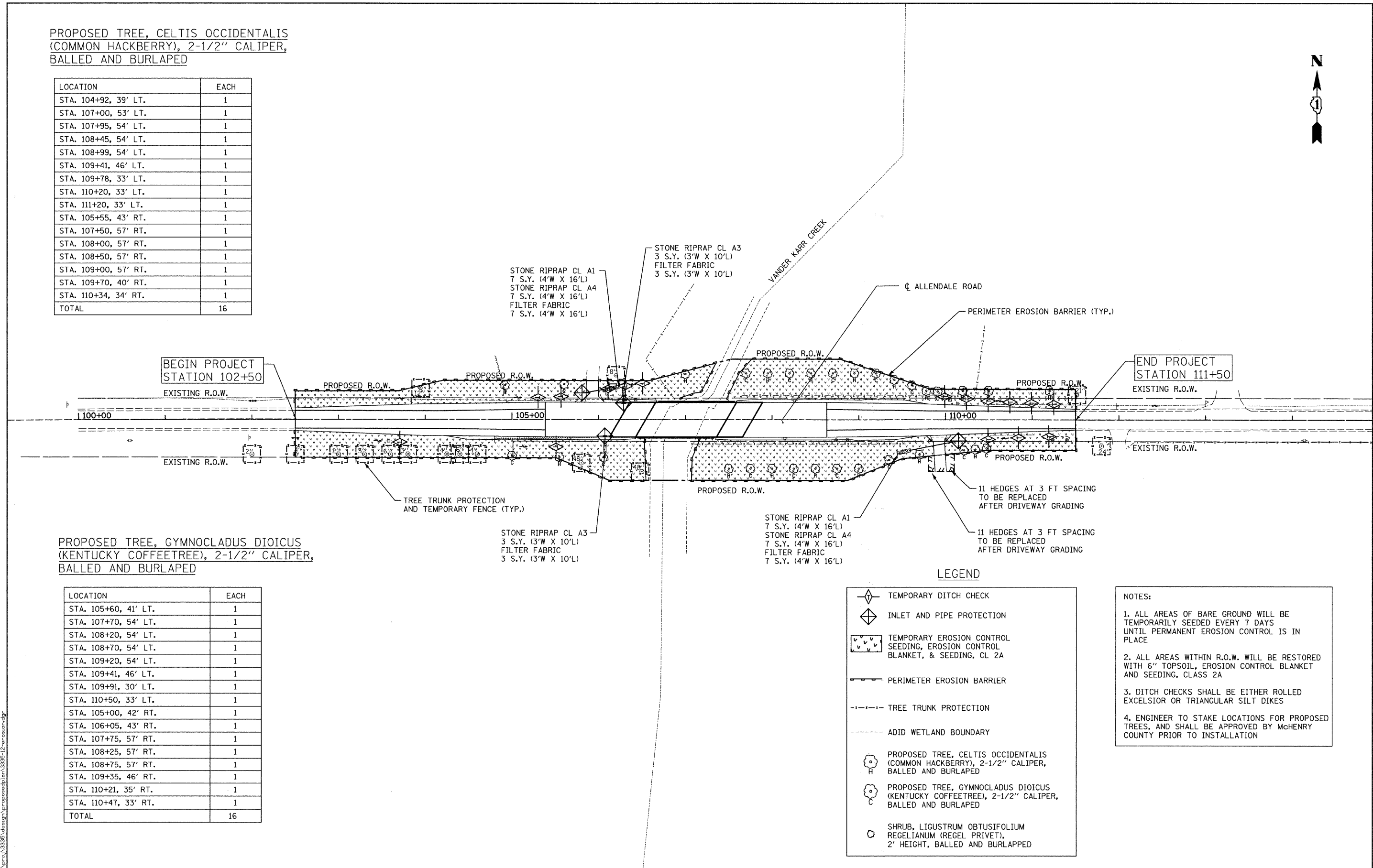
CONTRACT NO. 63114

PROPOSED TREE, *CELTIS OCCIDENTALIS*
(COMMON HACKBERRY), 2-1/2" CALIPER,
BALLED AND BURLAPED

LOCATION	EACH
STA. 104+92, 39' LT.	1
STA. 107+00, 53' LT.	1
STA. 107+95, 54' LT.	1
STA. 108+45, 54' LT.	1
STA. 108+99, 54' LT.	1
STA. 109+41, 46' LT.	1
STA. 109+78, 33' LT.	1
STA. 110+20, 33' LT.	1
STA. 111+20, 33' LT.	1
STA. 105+55, 43' RT.	1
STA. 107+50, 57' RT.	1
STA. 108+00, 57' RT.	1
STA. 108+50, 57' RT.	1
STA. 109+00, 57' RT.	1
STA. 109+70, 40' RT.	1
STA. 110+34, 34' RT.	1
TOTAL	16

PROPOSED TREE, *GYMNOCLADUS DIOICUS*
(KENTUCKY COFFEETREE), 2-1/2" CALIPER,
BALLED AND BURLAPED

LOCATION	EACH
STA. 105+60, 41' LT.	1
STA. 107+70, 54' LT.	1
STA. 108+20, 54' LT.	1
STA. 108+70, 54' LT.	1
STA. 109+20, 54' LT.	1
STA. 109+41, 46' LT.	1
STA. 109+91, 30' LT.	1
STA. 110+50, 33' LT.	1
STA. 105+00, 42' RT.	1
STA. 106+05, 43' RT.	1
STA. 107+75, 57' RT.	1
STA. 108+25, 57' RT.	1
STA. 108+75, 57' RT.	1
STA. 109+35, 46' RT.	1
STA. 110+21, 35' RT.	1
STA. 110+47, 33' RT.	1
TOTAL	16



LEGEND

	TEMPORARY DITCH CHECK
	INLET AND PIPE PROTECTION
	TEMPORARY EROSION CONTROL SEEDING, EROSION CONTROL BLANKET, & SEEDING, CL 2A
	PERIMETER EROSION BARRIER
	TREE TRUNK PROTECTION
	ADID WETLAND BOUNDARY
	PROPOSED TREE, <i>CELTIS OCCIDENTALIS</i> (COMMON HACKBERRY), 2-1/2" CALIPER, BALLED AND BURLAPED
	PROPOSED TREE, <i>GYMNOCLADUS DIOICUS</i> (KENTUCKY COFFEETREE), 2-1/2" CALIPER, BALLED AND BURLAPED
	SHRUB, <i>LIGUSTRUM OBTUSIFOLIUM</i> REGELIANUM (REGEL PRIVET), 2' HEIGHT, BALLED AND BURLAPED

NOTES:

- ALL AREAS OF BARE GROUND WILL BE TEMPORARILY SEEDED EVERY 7 DAYS UNTIL PERMANENT EROSION CONTROL IS IN PLACE
- ALL AREAS WITHIN R.O.W. WILL BE RESTORED WITH 6" TOPSOIL, EROSION CONTROL BLANKET AND SEEDING, CLASS 2A
- DITCH CHECKS SHALL BE EITHER ROLLED EXCELSIOR OR TRIANGULAR SILT DIKES
- ENGINEER TO STAKE LOCATIONS FOR PROPOSED TREES, AND SHALL BE APPROVED BY McHENRY COUNTY PRIOR TO INSTALLATION



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6507 North Cumberland Avenue, Suite 402
Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014

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PLOT DATE = 2/6/2009	CHECKED - MJL	REVISED -
	DATE - 10/31/2008	REVISED -

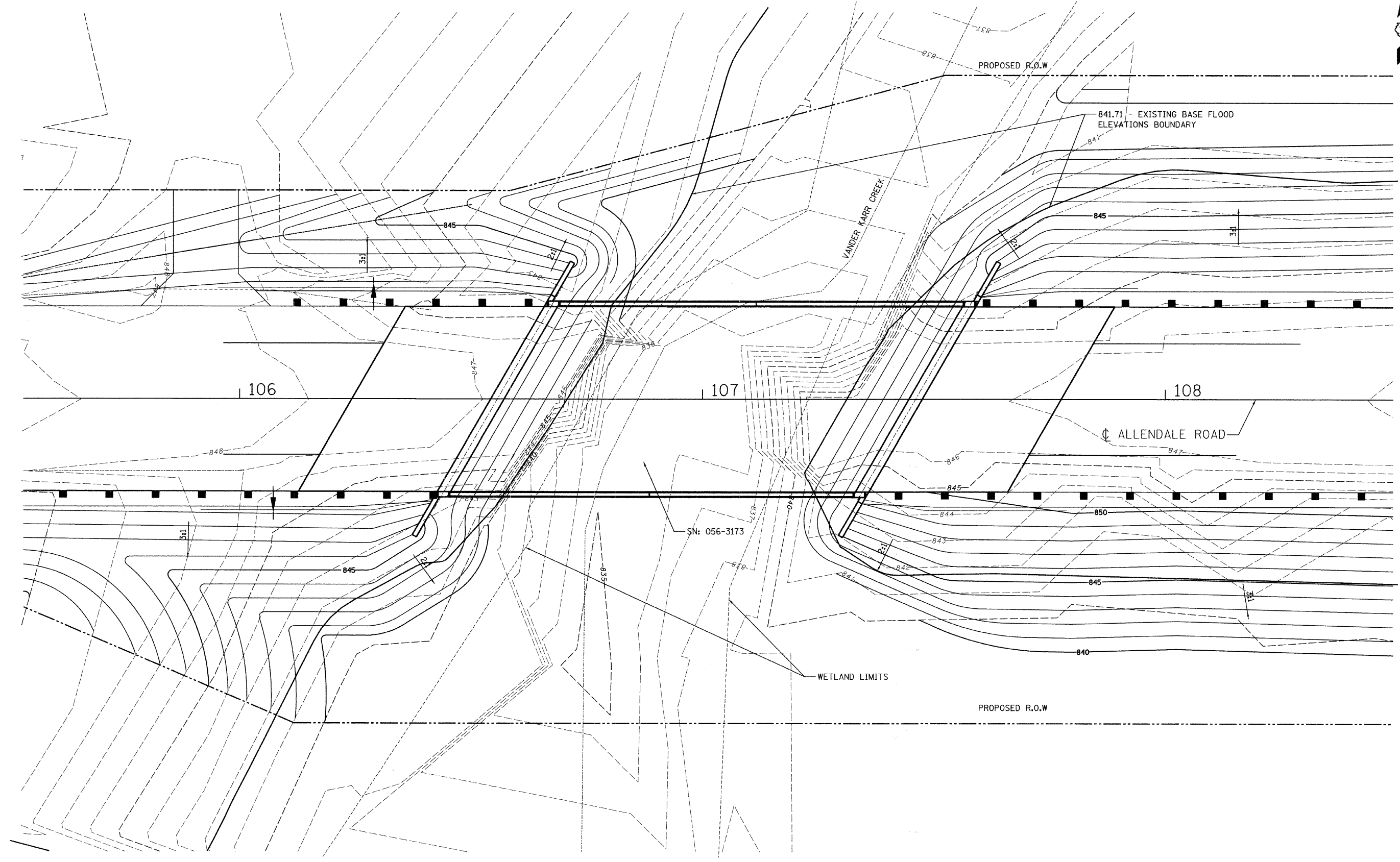
McHENRY COUNTY
DIVISION OF TRANSPORTATION

TR 73 / ALLENDALE ROAD
OVER VANDER KARR
LANDSCAPING & EROSION CONTROL PLAN

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
73	05-00310-00-BR	McHENRY	44	12

CONTRACT NO. 63114
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT



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PLOT SCALE = 10.0000' / IN.	DRAWN - MWR	REVISED -
PLOT DATE = 2/6/2009	CHECKED - MJL	REVISED -
	DATE - 10/31/2008	REVISED -

**McHENRY COUNTY
 DIVISION OF TRANSPORTATION**

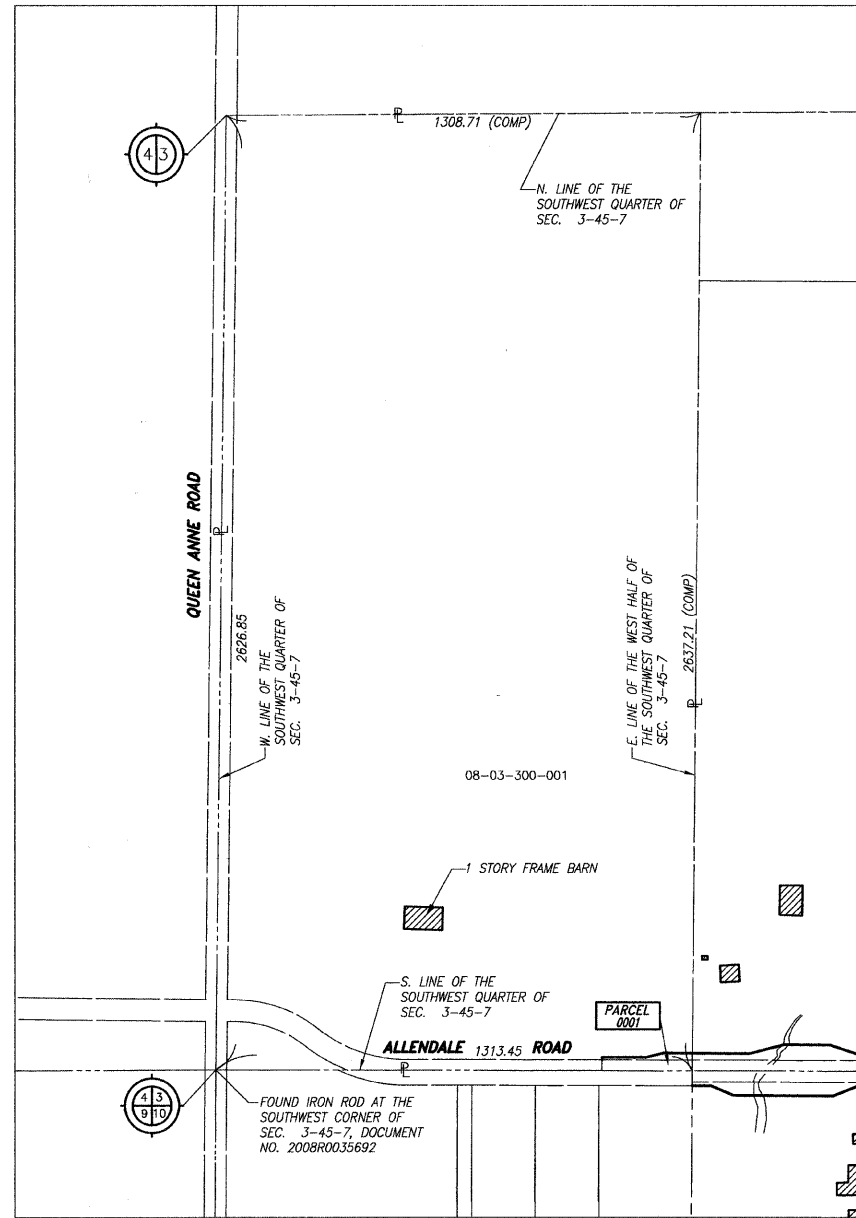
**TR 73/ALLENDALE ROAD
 OVER VANDER KARR CREEK
 GRADING DETAIL AT BRIDGE ABUTMENTS**

SCALE: 1" = 10'
 SHEET NO. OF SHEETS STA. TO STA.

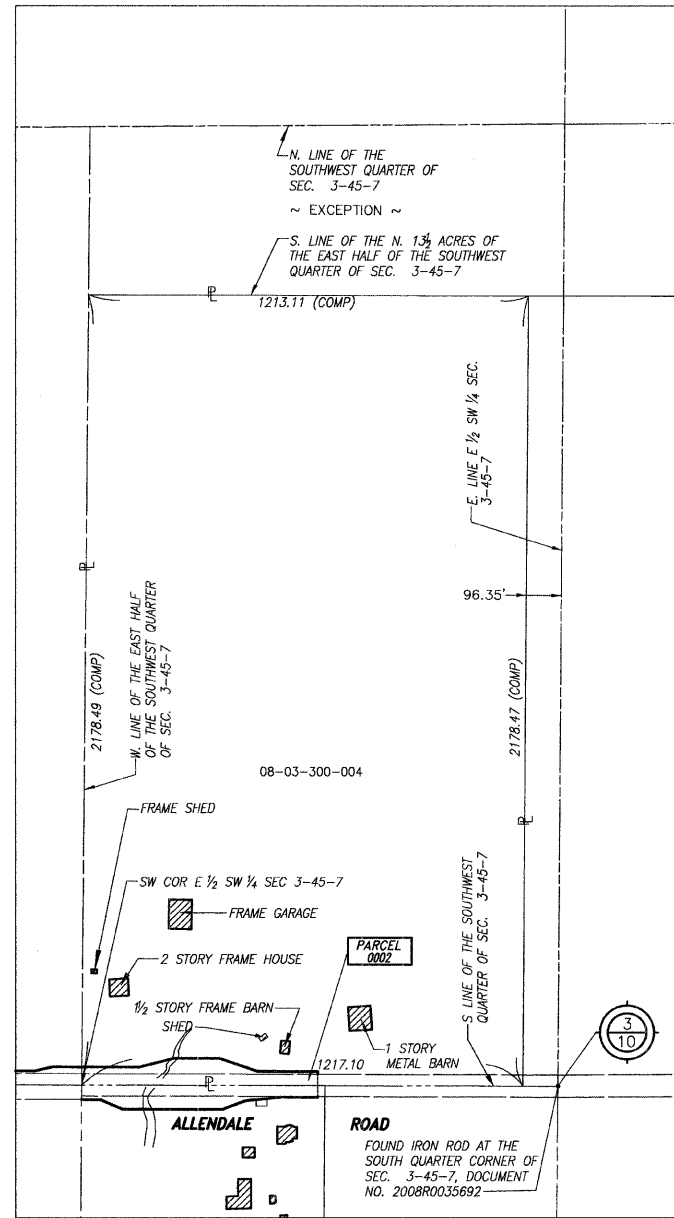
F.A. RTE: 73	SECTION: 05-00310-00-BR	COUNTY: McHENRY	TOTAL SHEETS: 44	SHEET NO.: 13
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
CONTRACT NO. 63114				

PART OF THE SW 1/4 SECTION 3 AND PART OF THE NW 1/4 SECTION 10, ALL IN T45N, R7E OF THE 3rd PM, GREENWOOD TOWNSHIP, McHENRY COUNTY, ILLINOIS.

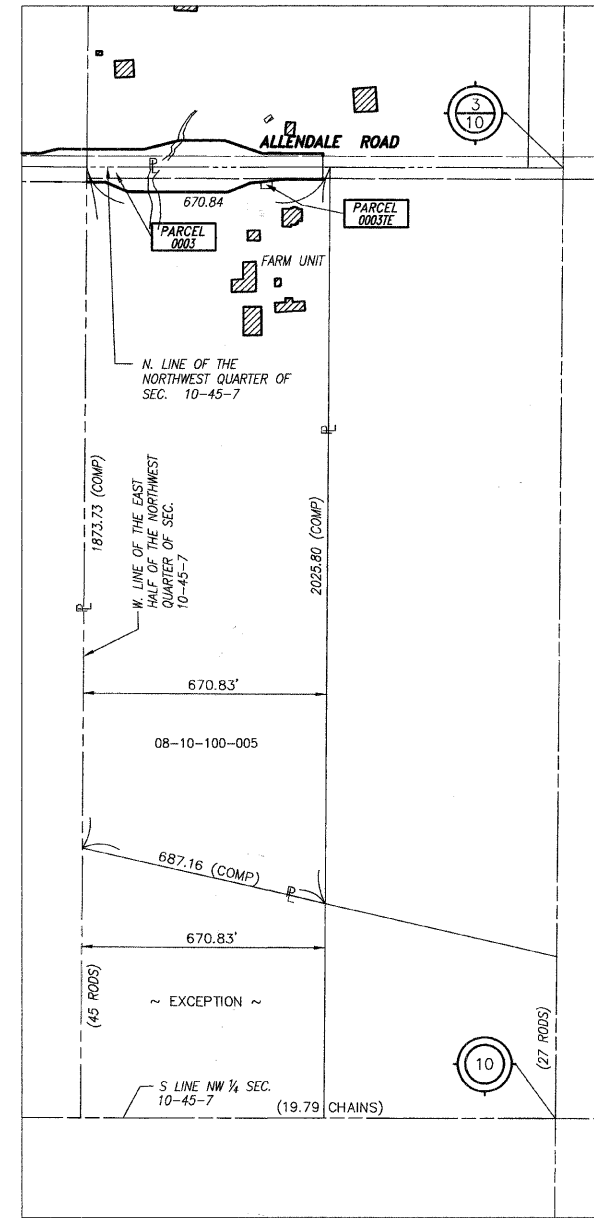
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
73	05-00310-00-BR	McHENRY	44	15
CONTRACT NO. 63114			ILLINOIS FED. AID PROJECT	



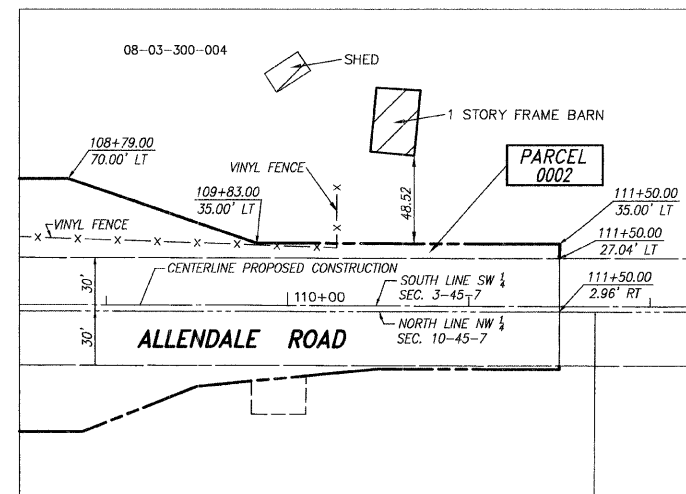
TOTAL HOLDING DEPICTION - PARCEL 0001
SCALE: 1" = 250'



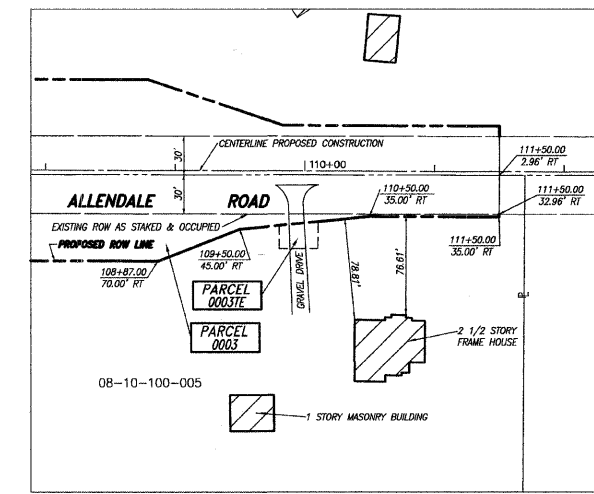
TOTAL HOLDING DEPICTION - PARCEL 0002
SCALE: 1" = 250'



TOTAL HOLDING DEPICTION - PARCEL 0003
SCALE: 1" = 250'



BUILDING DETAILS - PARCEL 0002
SCALE: 1" = 50'



BUILDING DETAILS - PARCEL 0003
SCALE: 1" = 70'

LEGEND

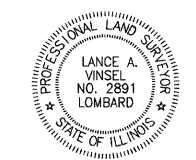
- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION LINE
- QUARTER SECTION LINE
- QUARTER SECTION LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APL APPARENT PROPERTY LINE
- CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- EXISTING ACCESS CONTROL LINE
- PROPOSED ACCESS CONTROL LINE
- MEASURED DIMENSION
- COMPUTED DIMENSION (123.45')
- RECORD DATA
- EXISTING BUILDING
- IRON PIPE OR ROD FOUND
- SET 5/8" x 30" REBAR
- CUT CROSS FOUND OR SET
- FOUND PK NAIL
- PK SET PK NAIL
- T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION.
- T2 SET 5/8 INCH REBAR FLUSH WITH GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP AND BEARING SURVEYOR'S PROFESSIONAL NUMBER.
- T3 BY COLORED PLASTIC CAP AND BEARING SURVEYOR'S PROFESSIONAL NUMBER.
- BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION.
- BT2 BURIED 5/8 INCH REBAR 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE.
- BT3 IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYOR'S PROFESSIONAL NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYOR'S PROFESSIONAL NUMBER.
- STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH REBAR 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYOR'S PROFESSIONAL NUMBER.
- PERMANENT SURVEY MARKER. IDOT STD. 2135 (TO BE SET BY OTHERS)
- RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS }
COUNTY OF WILL } SS

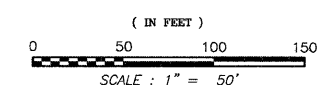
THIS IS TO CERTIFY THAT I, LANCE A. VINSEL, AN ILLINOIS PROFESSIONAL LAND SURVEYOR, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 3 AND 10, TOWNSHIP 45 NORTH, RANGE 7 EAST OF THE THIRD PRINCIPAL MERIDIAN, McHENRY COUNTY; THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF; THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY; THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED. MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT LOMBARD, ILLINOIS THIS ____ DAY OF ____ 2008 A.D.

Lance A. Vinsel
ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 2891
LICENSE EXPIRATION DATE NOVEMBER 30, 2010
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

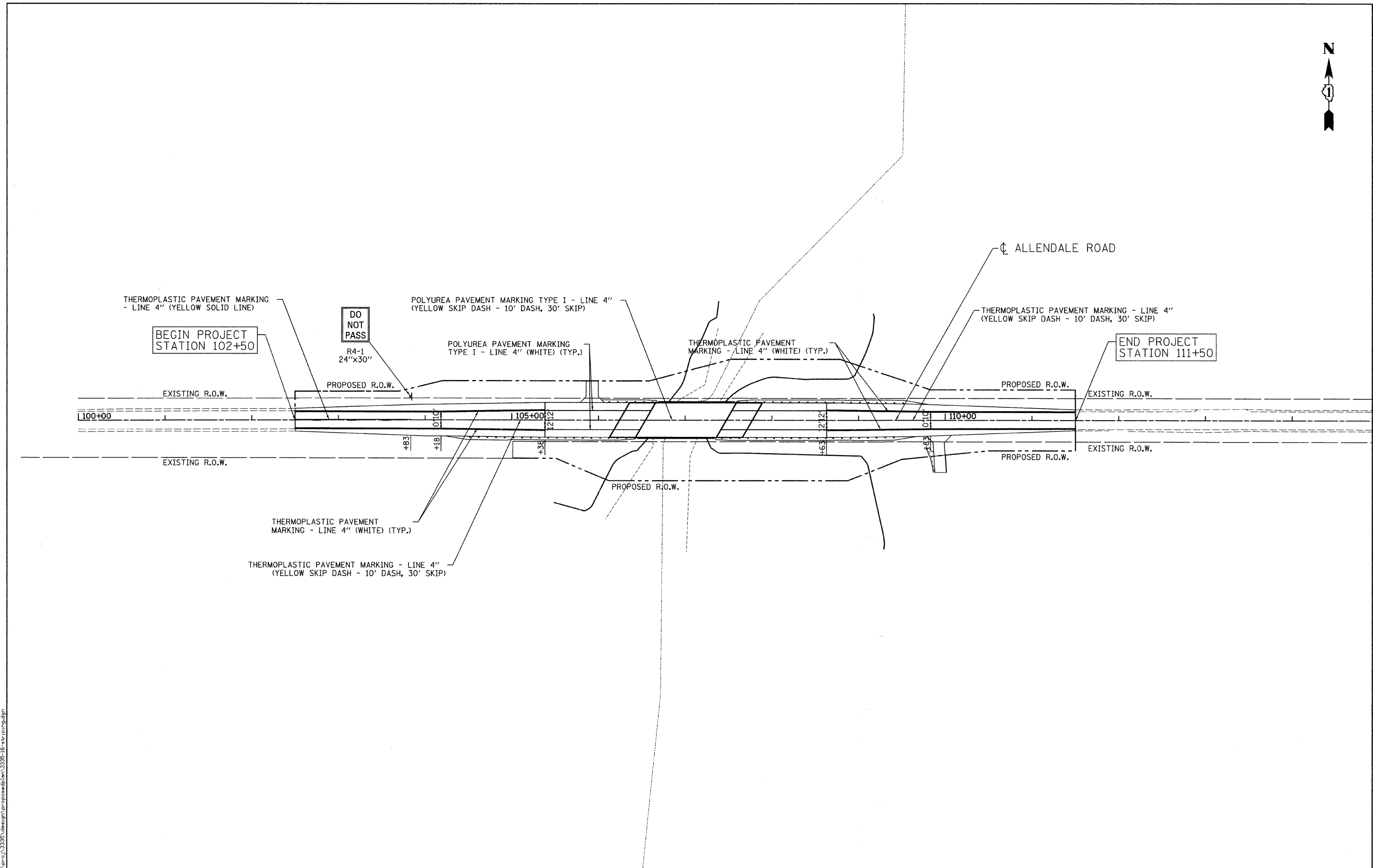


MILLENNIA
200 WEST 22ND STREET
SUITE 216
LOMBARD, ILLINOIS 60148



PLAT OF HIGHWAYS
STATE OF ILLINOIS
McHENRY COUNTY
DIVISION OF TRANSPORTATION
ALLENDALE ROAD

SECTION: 05-00310-00-RR McHENRY COUNTY
PROJECT: BROS-111(45) JOB NO.: R-91-004-06
STATION 102+50.00 TO STATION 111+50.00
SCALE: VARIES SHEET 15 OF 44



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 Chicago, Illinois 60656
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	DRAWN - MWR	REVISED -
PLOT SCALE = 50.0000' / IN.	CHECKED - MJL	REVISED -
PLOT DATE = 2/6/2009	DATE - 10/31/2008	REVISED -

**McHENRY COUNTY
 DIVISION OF TRANSPORTATION**

**TR 73 / ALLENDALE ROAD
 OVER VANDER KARR CREEK
 STRIPING & SIGNING PLAN**

SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE. 73	SECTION 05-00310-00-BR	COUNTY McHENRY	TOTAL SHEETS 44	SHEET NO. 16
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63114	

McHENRY COUNTY
DIVISION OF TRANSPORTATION

Benchmark: C.G.I #102 - 3/4" ϕ Iron pipe set in grass. Sta. 104+58, 14.54' LT. Elev. 849.93'

Existing Structure: S.N. 056-3064 built in 1938. Single span, 64'-6" back to back of abutments, 25'-0" out to out. Superstructure consists of riveted steel pony trusses and concrete deck. Substructure composed of closed abutments on untreated timber piles. Superstructure to be completely removed. Portions of existing abutment to remain. Road will be closed during construction.

Salvage: None

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	Exist. W. Abut.	Exist. E. Abut.
	0.0	0.0

Note: No Scour is anticipated at the proposed abutments.

SCOPE OF WORK

Total superstructure and part of substructure removal and replacement with a single span PPC beam bridge on integral abutments.

DESIGN SPECIFICATIONS

2007 AASHTO LRFD Bridge Design Specifications with 2008 Interims

DESIGN STRESSES

FIELD UNITS		PRESTRESSED UNITS	
$f'_c = 3,500$ psi	$f'_c = 7,000$ psi	$f'_c = 6,000$ psi	$f'_c = 6,000$ psi
$f_y = 60,000$ psi (Reinforcement)	$f_y = 50,000$ psi (M270 Grade 50)	$f_{pu} = 270,000$ psi (1/2" ϕ low lax. standards)	$f_{pbt} = 201,960$ psi (1/2" ϕ low lax. standards)

LOADING HL-93

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

WATERWAY INFORMATION

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	25	1200	233.84	233.84	840.49	0.00	0.00	840.47	840.48
Base	50	1390	255.81	255.81	841.40	0.00	0.00	841.39	841.40
IDNR 100-year	100	1560	278.09	278.09	841.82	0.00	0.00	841.81	841.82
Max. Calc.	500	1970	348.18	348.18	843.12	0.00	0.00	843.11	843.11

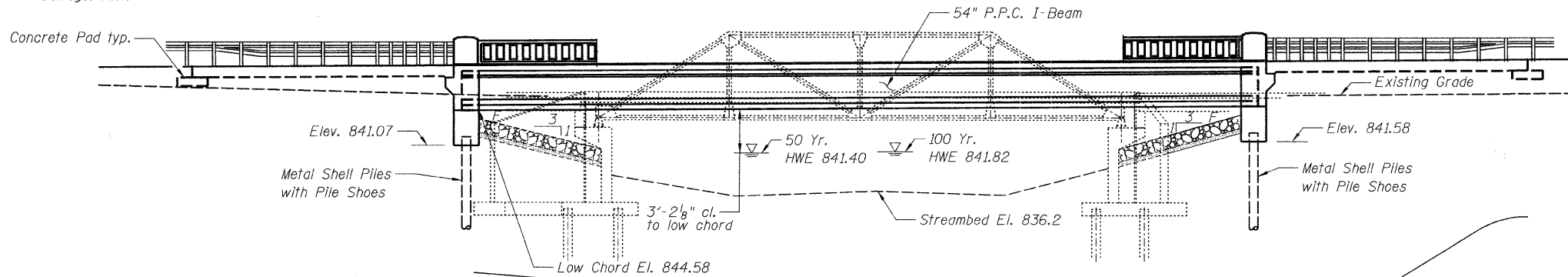
SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec (S_{D1}) = 0.08g
Design Spectral Acceleration at 0.2 Sec (S_{D2}) = 0.24g
Soil Site Class = D

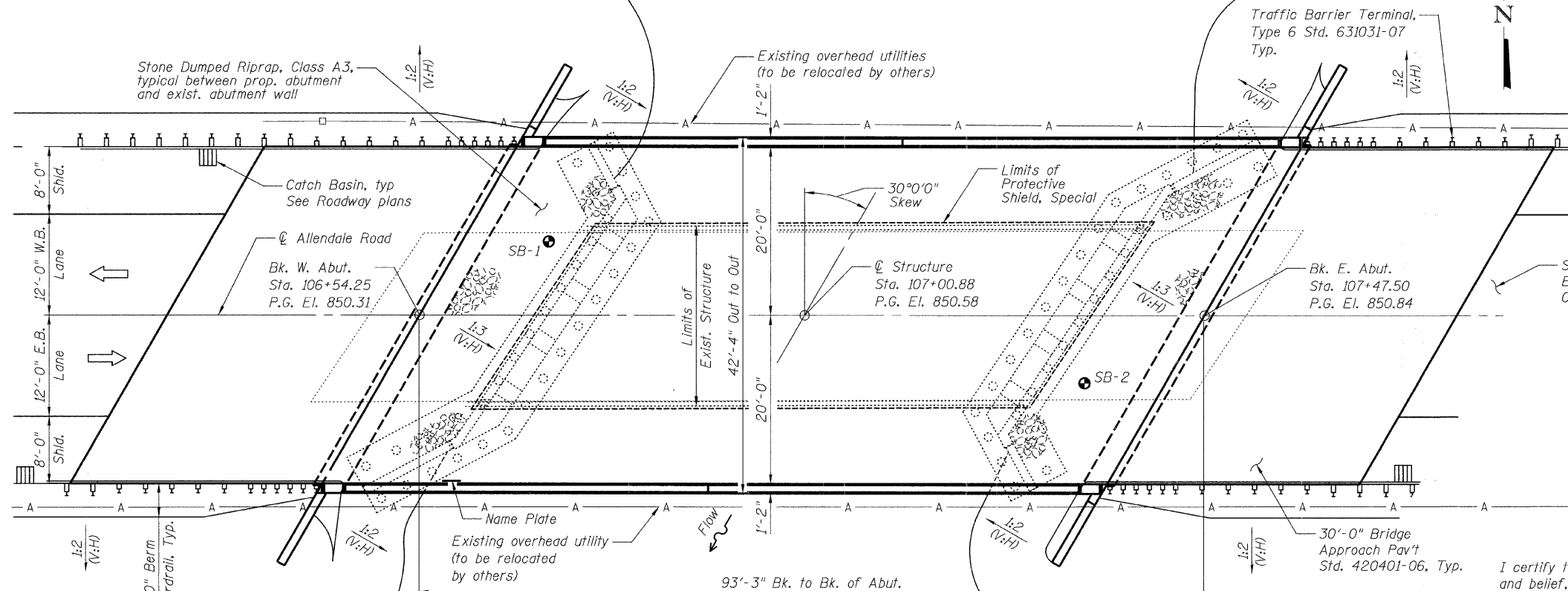
VANDER KARR CREEK
BUILT 200_ BY
McHENRY COUNTY
SEC. 05-00310-00-BR
STATION 107+00.88
STR. NO. 056-3173 LOADING HL-93

NAME PLATE

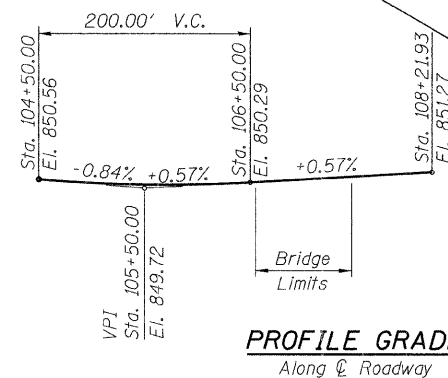
See Std. 515001



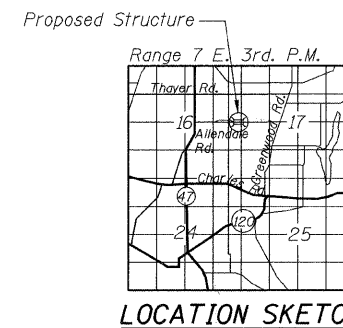
ELEVATION



PLAN



PROFILE GRADE
Along ϕ Roadway



LOCATION SKETCH

LEGEND:

- \bullet Indicated Soil Boring Location
- E.B. East Bound
- W.B. West Bound

DESIGNED	AMK
CHECKED	EKM
DRAWN	RD
CHECKED	EKM



Ciorba Group, Inc.
CONSULTING ENGINEERS
5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014 Email chicago@ciorba.com



DATE: 2/8/2009
SEAL EXPIRES: 11/30/2010

I certify that to the best of 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.

GENERAL PLAN AND ELEVATION

ALLENDALE ROAD OVER
VANDER KARR CREEK
STATION 107+00.88
STRUCTURE NO. 056-3173

SHEET NO. S-1 OF S-20 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		05-00310-00-BR	McHENRY	44	17
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT		
			CONTRACT NO. 63114		

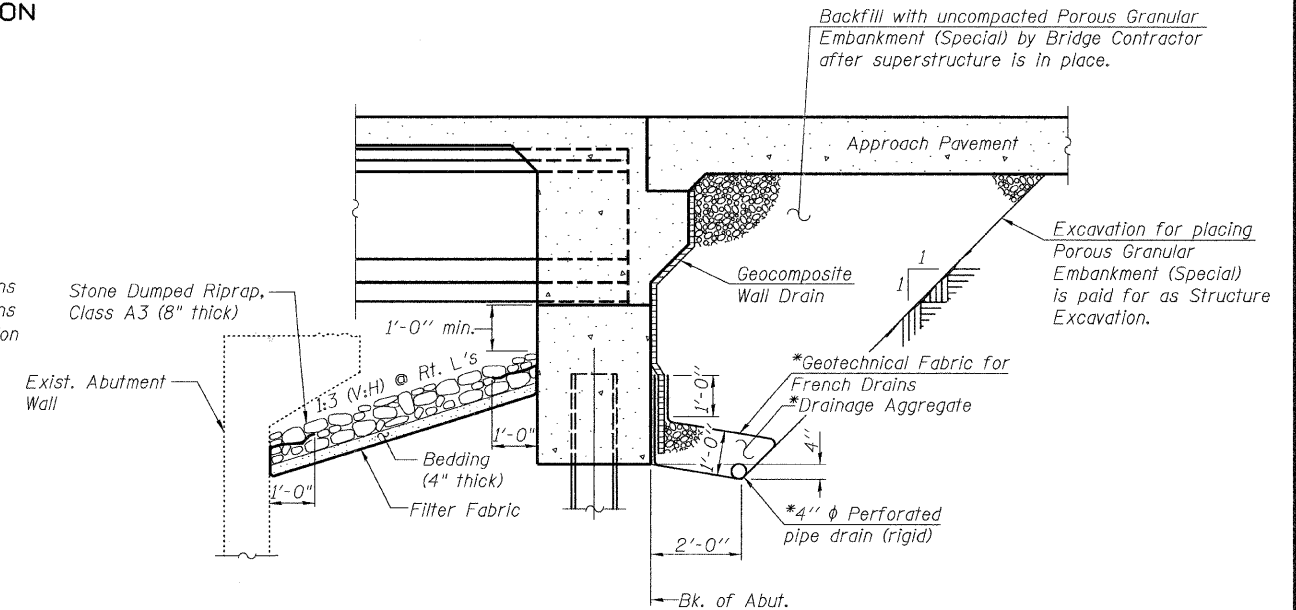
McHENRY COUNTY
DIVISION OF TRANSPORTATION

GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
4. The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.
5. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction 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 scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
6. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
7. The Contractor shall utilize the Protective Shield, Special during demolition to prevent the deposition of any material into Vander Karr Creek. In addition, the Contractor shall take extreme caution during all other phases of construction to prevent the deposition of any material into Vander Karr Creek. Demolition and construction activities within the floodplain shall be limited to the grading limits shown on the grading plans.

INDEX OF SHEETS

- S-1 General Plan and Elevation
- S-2 General Notes and Bill of Materials
- S-3 Top of Slab Elevations No. 1
- S-4 Top of Slab Elevations No. 2
- S-5 Top of West Approach Slab Elevations
- S-6 Top of East Approach Slab Elevations
- S-7 Superstructure Plan and Cross Section
- S-8 Integral Abutment Diaphragm Details
- S-9 Concrete Bridge Railing Details
- S-10 Superstructure Details
- S-11 Framing Plan
- S-12 54" PPC I-Beam Details I
- S-13 54" PPC I-Beam Details II
- S-14 West Abutment
- S-15 East Abutment
- S-16 Abutment Concrete Removal Plan
- S-17 Metal Shell Pile Details
- S-18 Bar Splicer Assembly Details
- S-19 Soil Borings 1
- S-20 Soil Borings 2



SECTION THRU INTEGRAL ABUTMENT

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

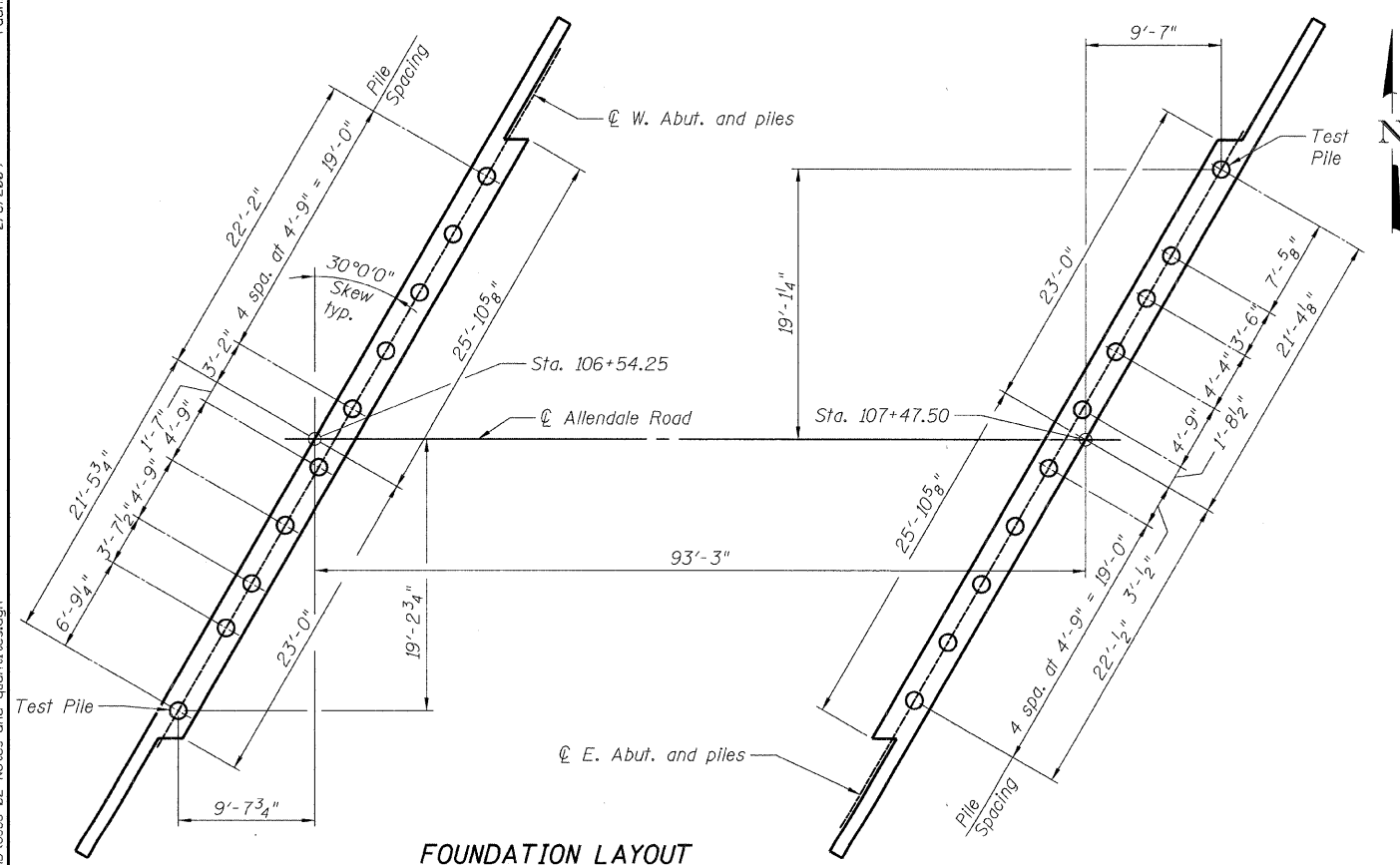
*Included in the cost of Pipe Underdrains for Structures.

Note:

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

TOTAL BILL OF MATERIAL

PAY ITEM	DESCRIPTION	UNIT	ESTIMATED QUANTITY
20700400	Porous Granular Embankment, Special	Cu. Yd.	210
28100705	Stone Dumped Riprap, Class A3	Sq. Yd.	95
28200200	Filter Fabric	Sq. Yd.	95
50101500	Removal of Existing Superstructures	Each	1
50102400	Concrete Removal	Cu. Yd.	14.0
50157307	Protective Shield, Special	L. Sum	1
50200100	Structure Excavation	Cu. Yd.	36.4
50300225	Concrete Structures	Cu. Yd.	43.4
50300254	Rubbed Finish	Sq. Ft.	1,023
50300255	Concrete Superstructure	Cu. Yd.	147.4
50300260	Bridge Deck Grooving	Sq. Yd.	394
50300300	Protective Coat	Sq. Yd.	498
50401105	Furnishing and Erecting Precast Prestressed Concrete I-Beams, 54"	Foot	548.5
50800205	Reinforcement Bars, Epoxy Coated	Pound	36,600
50800515	Bar Splicers	Each	80
51200959	Furnishing Metal Shell Piles 14" x 0.312"	Foot	810
51202305	Driving Piles	Foot	810
51203200	Test Pile Metal Shells	Each	2
51204650	Pile Shoes	Each	20
51500100	Name Plates	Each	1
59100100	Geocomposite Wall Drain	Sq. Yd.	127
60109580	Pipe Underdrains for Structures 4"	Foot	170
X0325862	Concrete Bridge Railing	Foot	186



FOUNDATION LAYOUT

DESIGNED	AMK
CHECKED	EKM
DRAWN	RD
CHECKED	EKM



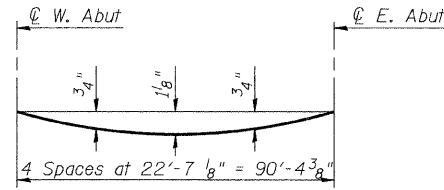
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GENERAL NOTES & BILL OF MATERIAL

STRUCTURE NO. 056-3173

SHEET NO. S-2 OF S-20 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		05-00310-00-BR	McHENRY	44	18
			CONTRACT NO. 63114		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

McHENRY COUNTY
DIVISION OF TRANSPORTATION

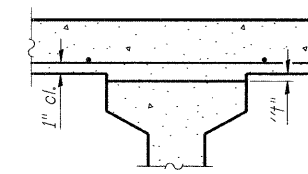


DEAD LOAD DEFLECTION DIAGRAM

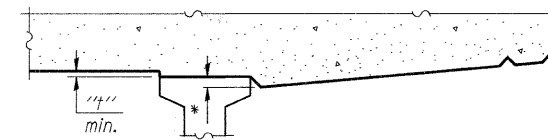
(Includes weight of concrete, excluding beams).

Note:

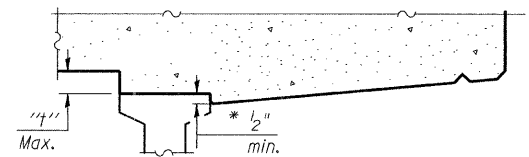
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below.



INTERIOR BEAMS



At Minimum Fillet



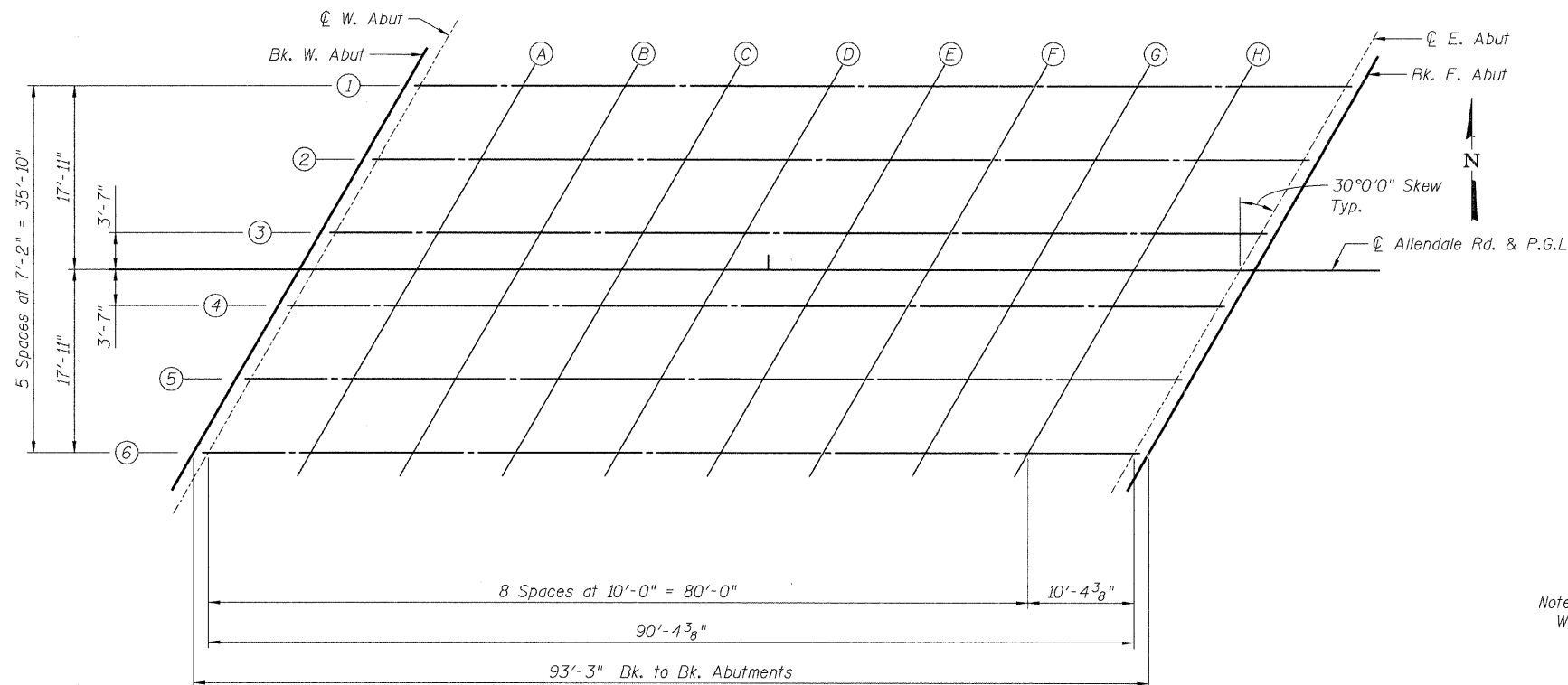
At Maximum Fillet

* Variable (not less than 1/2")

EXTERIOR BEAMS

METHOD OF DETERMINING FILLET HEIGHTS "f"

After all beams have been erected, elevations of the top flanges of the beams shall be taken at the intervals shown on the plans. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on the plans, minus slab thickness equals the fillet heights "f" above top flange of beams.



FRAMING PLAN

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	106+64.59	17.92 Lt.	850.06	850.06
CL W. Abut.	106+66.04	17.92 Lt.	850.07	850.07
A	106+76.04	17.92 Lt.	850.13	850.16
B	106+86.04	17.92 Lt.	850.18	850.24
C	106+96.04	17.92 Lt.	850.24	850.32
D	107+06.04	17.92 Lt.	850.30	850.39
E	107+16.04	17.92 Lt.	850.35	850.45
F	107+26.04	17.92 Lt.	850.41	850.49
G	107+36.04	17.92 Lt.	850.47	850.53
H	107+46.04	17.92 Lt.	850.53	850.56
CL E. Abut.	107+56.40	17.92 Lt.	850.58	850.58
Bk. E. Abut.	107+57.84	17.92 Lt.	850.59	850.59

Note:

Work this sheet with Sheet S-4.

**TOP OF SLAB ELEVATIONS NO. 1
STRUCTURE NO. 056-3173**

DESIGNED	AMK
CHECKED	EKM
DRAWN	RD
CHECKED	EKM



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SHEET NO. S-3 OF S-20 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		05-00310-00-BR	McHENRY	44	19
	CONTRACT NO. 63114				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

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BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	106+60.46	10.75 Lt.	850.18	850.18
CL W. Abut.	106+61.90	10.75 Lt.	850.19	850.19
A	106+71.90	10.75 Lt.	850.25	850.28
B	106+81.90	10.75 Lt.	850.30	850.36
C	106+91.90	10.75 Lt.	850.36	850.44
D	107+01.90	10.75 Lt.	850.42	850.51
E	107+11.90	10.75 Lt.	850.47	850.56
F	107+21.90	10.75 Lt.	850.53	850.61
G	107+31.90	10.75 Lt.	850.59	850.65
H	107+41.90	10.75 Lt.	850.64	850.68
CL E. Abut.	107+52.26	10.75 Lt.	850.70	850.70
Bk. E. Abut.	107+53.71	10.75 Lt.	850.71	850.71

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	106+56.32	3.58 Lt.	850.27	850.27
CL W. Abut.	106+57.76	3.58 Lt.	850.28	850.28
A	106+67.76	3.58 Lt.	850.33	850.37
B	106+77.76	3.58 Lt.	850.39	850.45
C	106+87.76	3.58 Lt.	850.45	850.53
D	106+97.76	3.58 Lt.	850.50	850.60
E	107+07.76	3.58 Lt.	850.56	850.65
F	107+17.76	3.58 Lt.	850.62	850.70
G	107+27.76	3.58 Lt.	850.68	850.74
H	107+37.76	3.58 Lt.	850.73	850.77
CL E. Abut.	107+48.13	3.58 Lt.	850.79	850.79
Bk. E. Abut.	107+49.57	3.58 Lt.	850.80	850.80

☐ Roadway & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	106+54.25	0.00	850.31	850.31
CL W. Abut.	106+55.69	0.00	850.32	850.32
A	106+65.69	0.00	850.38	850.41
B	106+75.69	0.00	850.43	850.49
C	106+85.69	0.00	850.49	850.57
D	106+95.69	0.00	850.55	850.64
E	107+05.69	0.00	850.61	850.70
F	107+15.69	0.00	850.66	850.74
G	107+25.69	0.00	850.72	850.78
H	107+35.69	0.00	850.78	850.81
CL E. Abut.	107+46.06	0.00	850.84	850.84
Bk. E. Abut.	107+47.50	0.00	850.84	850.84

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	106+52.18	3.58 Rt.	850.24	850.24
CL W. Abut.	106+53.62	3.58 Rt.	850.25	850.25
A	106+63.62	3.58 Rt.	850.31	850.34
B	106+73.62	3.58 Rt.	850.37	850.43
C	106+83.62	3.58 Rt.	850.42	850.50
D	106+93.62	3.58 Rt.	850.48	850.57
E	107+03.62	3.58 Rt.	850.54	850.63
F	107+13.62	3.58 Rt.	850.60	850.68
G	107+23.62	3.58 Rt.	850.65	850.71
H	107+33.62	3.58 Rt.	850.71	850.74
CL E. Abut.	107+43.99	3.58 Rt.	850.77	850.77
Bk. E. Abut.	107+45.43	3.58 Rt.	850.78	850.78

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	106+48.04	10.75 Rt.	850.11	850.11
CL W. Abut.	106+49.49	10.75 Rt.	850.12	850.12
A	106+59.49	10.75 Rt.	850.17	850.21
B	106+69.49	10.75 Rt.	850.23	850.29
C	106+79.49	10.75 Rt.	850.29	850.37
D	106+89.49	10.75 Rt.	850.35	850.44
E	106+99.49	10.75 Rt.	850.40	850.49
F	107+09.49	10.75 Rt.	850.46	850.54
G	107+19.49	10.75 Rt.	850.52	850.58
H	107+29.49	10.75 Rt.	850.57	850.61
CL E. Abut.	107+39.85	10.75 Rt.	850.63	850.63
Bk. E. Abut.	107+41.29	10.75 Rt.	850.64	850.64

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	106+43.91	17.92 Rt.	849.94	849.94
CL W. Abut.	106+45.35	17.92 Rt.	849.95	849.95
A	106+55.35	17.92 Rt.	850.01	850.04
B	106+65.35	17.92 Rt.	850.06	850.12
C	106+75.35	17.92 Rt.	850.12	850.20
D	106+85.35	17.92 Rt.	850.18	850.27
E	106+95.35	17.92 Rt.	850.24	850.33
F	107+05.35	17.92 Rt.	850.29	850.37
G	107+15.35	17.92 Rt.	850.35	850.41
H	107+25.35	17.92 Rt.	850.41	850.44
CL E. Abut.	107+35.71	17.92 Rt.	850.47	850.47
Bk. E. Abut.	107+37.16	17.92 Rt.	850.47	850.47

Note:
Work this sheet with Sheet S-3.

**TOP OF SLAB ELEVATIONS NO. 2
STRUCTURE NO. 056-3173**

SHEET NO. S-4 OF S-20 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		05-00310-00-BR	McHENRY	44	20
	CONTRACT NO. 63114				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

DESIGNED	AMK
CHECKED	EKM
DRAWN	RD
CHECKED	EKM



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2/6/2009

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DIVISION OF TRANSPORTATION

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Pav't.	106+35.80	20 Lt.	849.86
A1	106+45.80	20 Lt.	849.91
A2	106+55.80	20 Lt.	849.97
E. End West Appr. Pav't	106+65.80	20 Lt.	850.02

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Pav't.	106+31.18	12 Lt.	850.01
A1	106+41.18	12 Lt.	850.05
A2	106+51.18	12 Lt.	850.11
E. End West Appr. Pav't	106+61.18	12 Lt.	850.16

☉ ROADWAY AND PROFILE GRADE

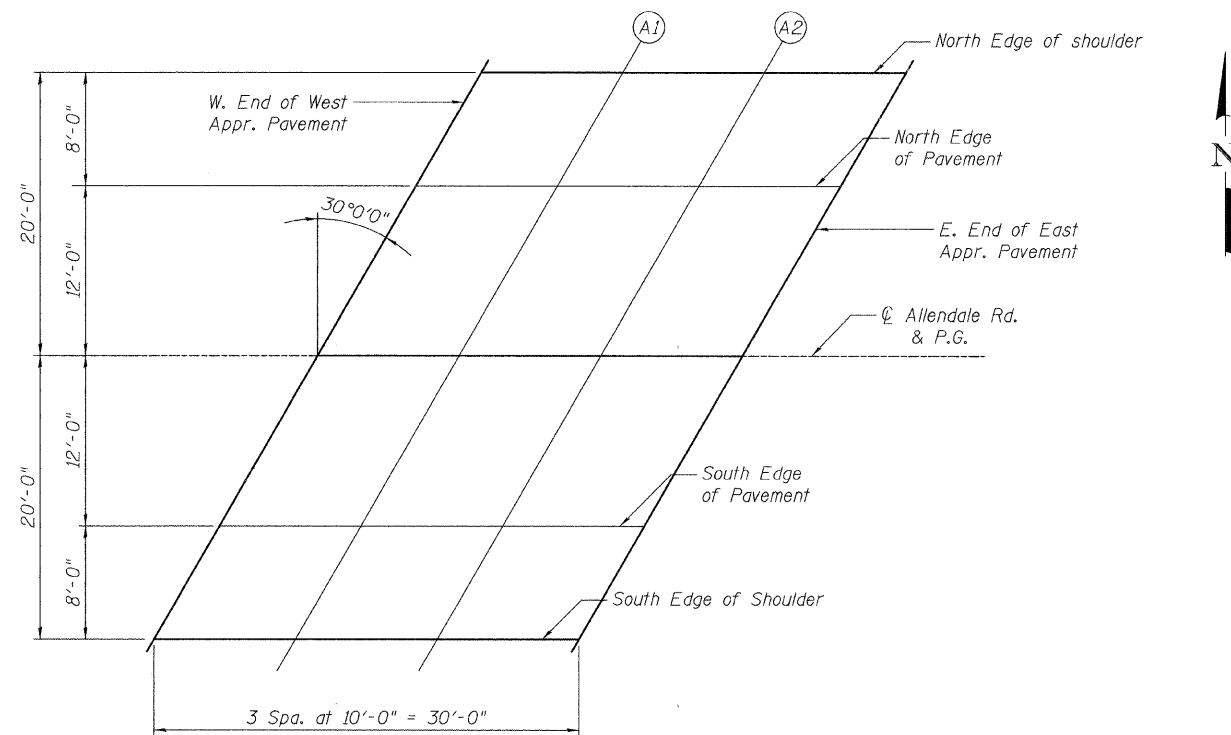
Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Pav't.	106+24.25	0.00	850.16
A1	106+34.25	0.00	850.21
A2	106+44.25	0.00	850.26
E. End West Appr. Pav't	106+54.25	0.00	850.31

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Pav't.	106+17.32	12 Rt.	849.95
A1	106+27.32	12 Rt.	849.99
A2	106+37.32	12 Rt.	850.03
E. End West Appr. Pav't	106+47.32	12 Rt.	850.09

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End West Appr. Pav't.	106+12.70	20 Rt.	849.77
A1	106+22.70	20 Rt.	849.80
A2	106+32.70	20 Rt.	849.85
E. End West Appr. Pav't	106+42.70	20 Rt.	849.89



PLAN
West Approach

DESIGNED	AMK
CHECKED	EKM
DRAWN	RD
CHECKED	EKM

PA-E 5-16-08



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**TOP OF WEST APPROACH
SLAB ELEVATIONS
STRUCTURE NO. 056-3173**

SHEET NO. S-5 OF S-20 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		05-00310-00-BR	McHENRY	44	21
			CONTRACT NO. 63114		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

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McHENRY COUNTY
DIVISION OF TRANSPORTATION

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr. Pav't.	107+59.05	20 Lt.	850.56
A3	107+69.05	20 Lt.	850.61
A4	107+79.05	20 Lt.	850.67
E. End East Appr. Pav't	107+89.05	20 Lt.	850.73

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr. Pav't.	107+54.43	12 Lt.	850.70
A3	107+64.43	12 Lt.	850.75
A4	107+74.43	12 Lt.	850.81
E. End East Appr. Pav't	107+84.43	12 Lt.	850.87

CL ROADWAY AND PROFILE GRADE

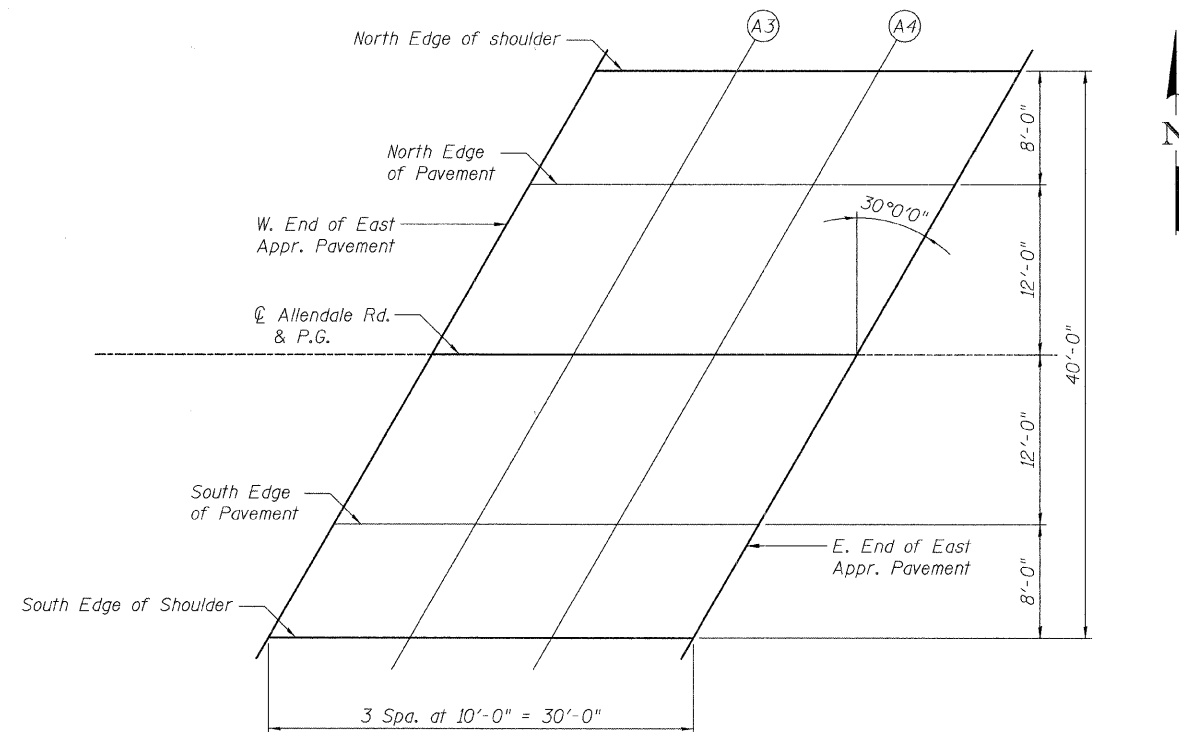
Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr. Pav't.	107+47.50	0.00	850.84
A3	107+57.50	0.00	850.90
A4	107+67.50	0.00	850.96
E. End East Appr. Pav't	107+77.50	0.00	851.02

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr. Pav't.	107+40.57	12 Rt.	850.62
A3	107+50.57	12 Rt.	850.67
A4	107+60.57	12 Rt.	850.73
E. End East Appr. Pav't	107+70.57	12 Rt.	850.79

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End East Appr. Pav't.	107+35.95	20 Rt.	850.42
A3	107+45.95	20 Rt.	850.48
A4	107+55.95	20 Rt.	850.54
E. End East Appr. Pav't	107+65.95	20 Rt.	850.60



PLAN

East Approach

DESIGNED	AMK
CHECKED	EKM
DRAWN	RD
CHECKED	EKM

PA-E

5-16-08



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**TOP OF EAST APPROACH
SLAB ELEVATIONS
STRUCTURE NO. 056-3173**

SHEET NO. S-6 OF S-20 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		05-00310-00-BR	McHENRY	44	22
			CONTRACT NO. 63114		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

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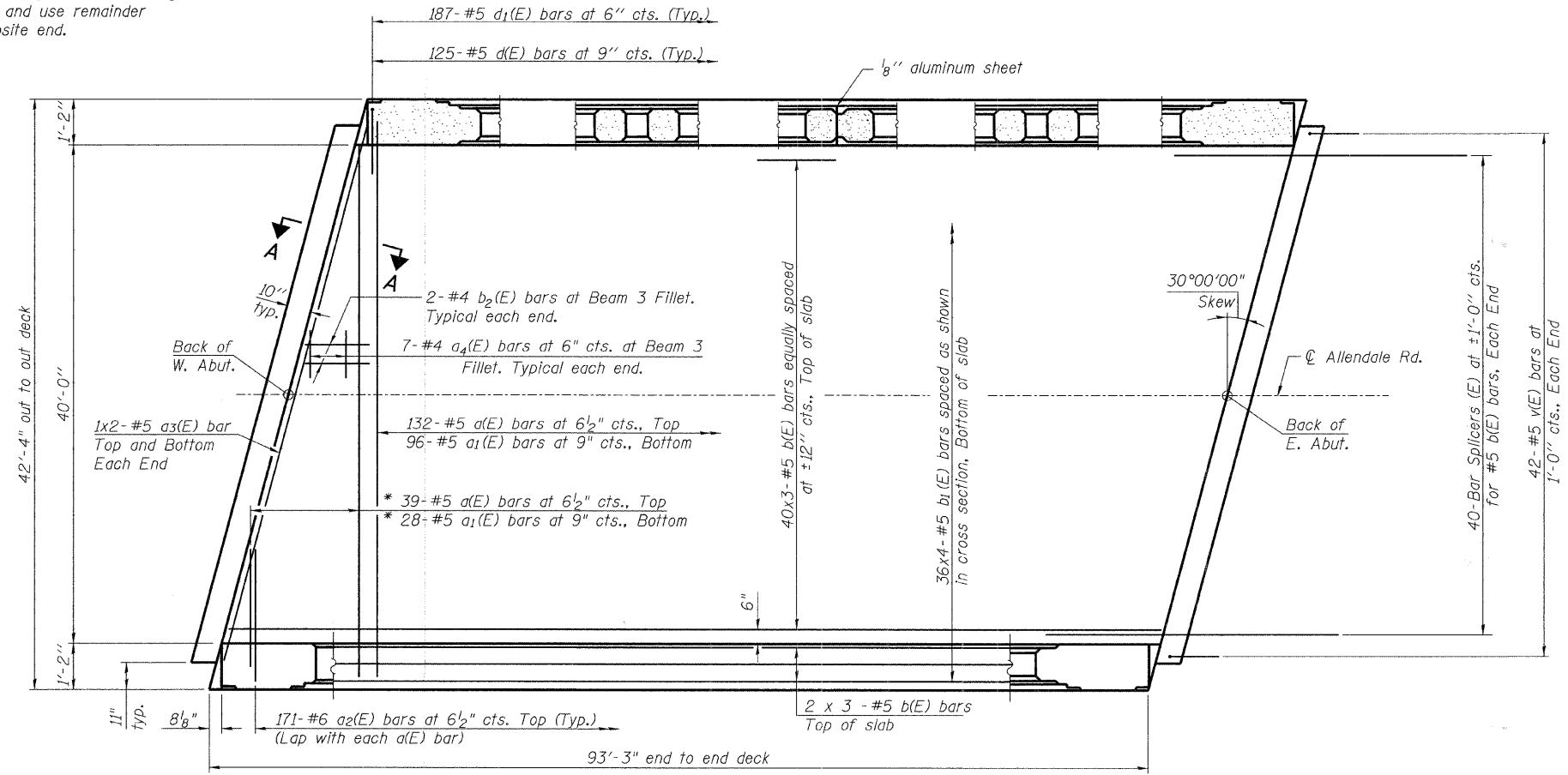
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McHENRY COUNTY
DIVISION OF TRANSPORTATION

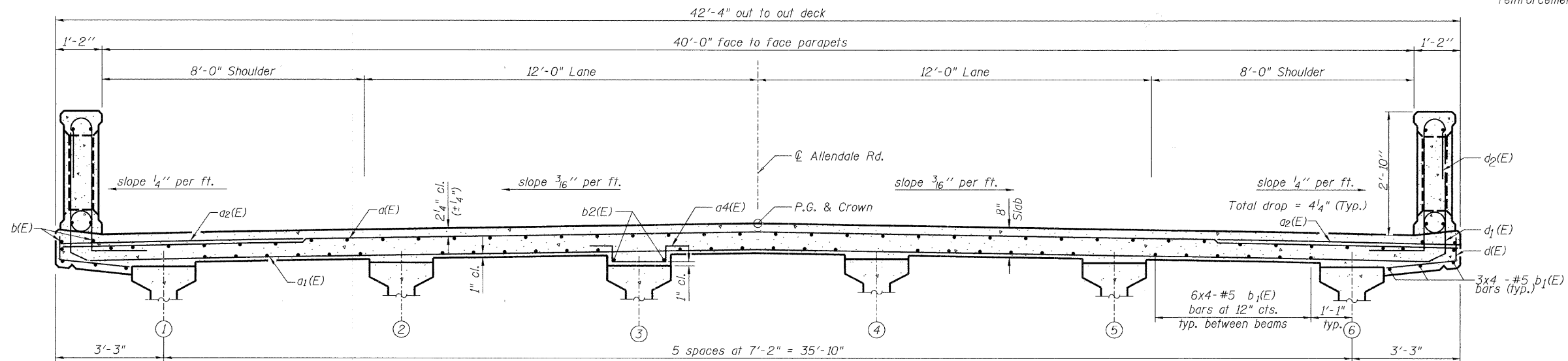
*Order a(E) and a₁(E) bars full length.
Cut to fit skew and use remainder
of bars in opposite end.



MINIMUM BAR LAP
#5 Bars = 2'-2"

Notes:
See Sheet S-10 for superstructure details
and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates
20 lines of bars with 3 lengths per line.
See Sheet S-9 for parapet reinforcement.
See Sheet S-8 for Section A-A and diaphragm
reinforcement.

PLAN



CROSS SECTION
(Looking East)

**SUPERSTRUCTURE PLAN
AND CROSS SECTION**
STRUCTURE NO. 056-3173

DESIGNED	AMK
CHECKED	EKM
DRAWN	RD
CHECKED	EKM



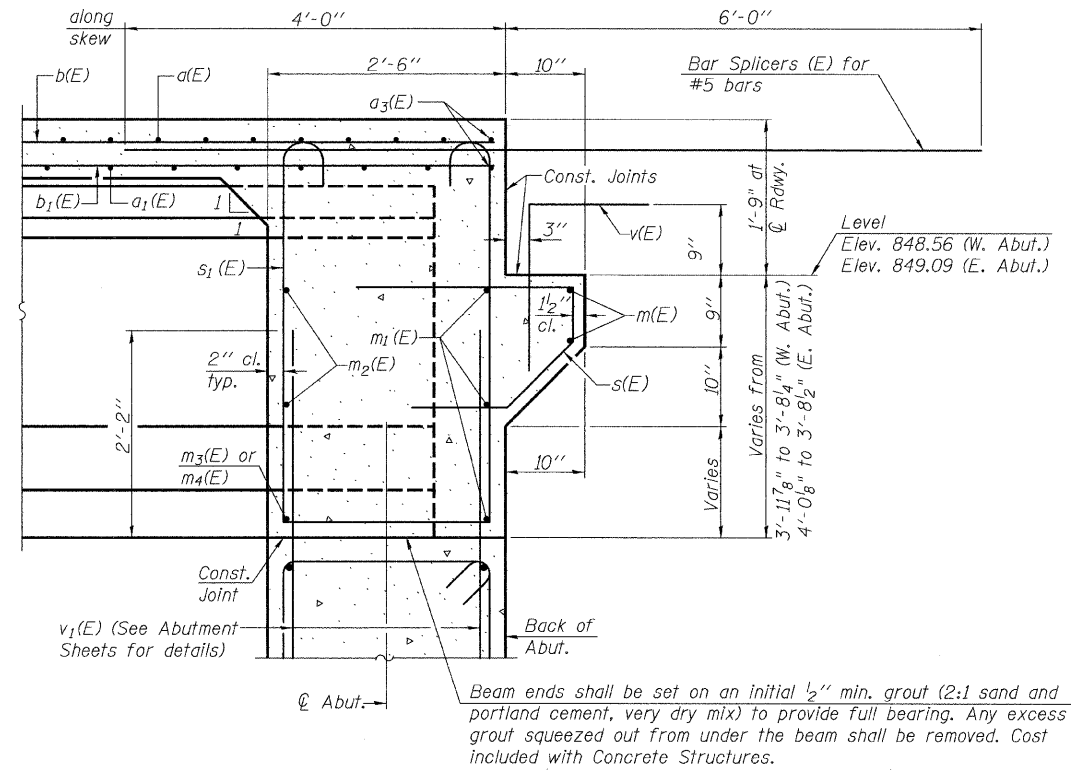
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SHEET NO. S-7 OF S-20 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		05-00310-00-BR	McHENRY	44	23
	CONTRACT NO. 63114				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

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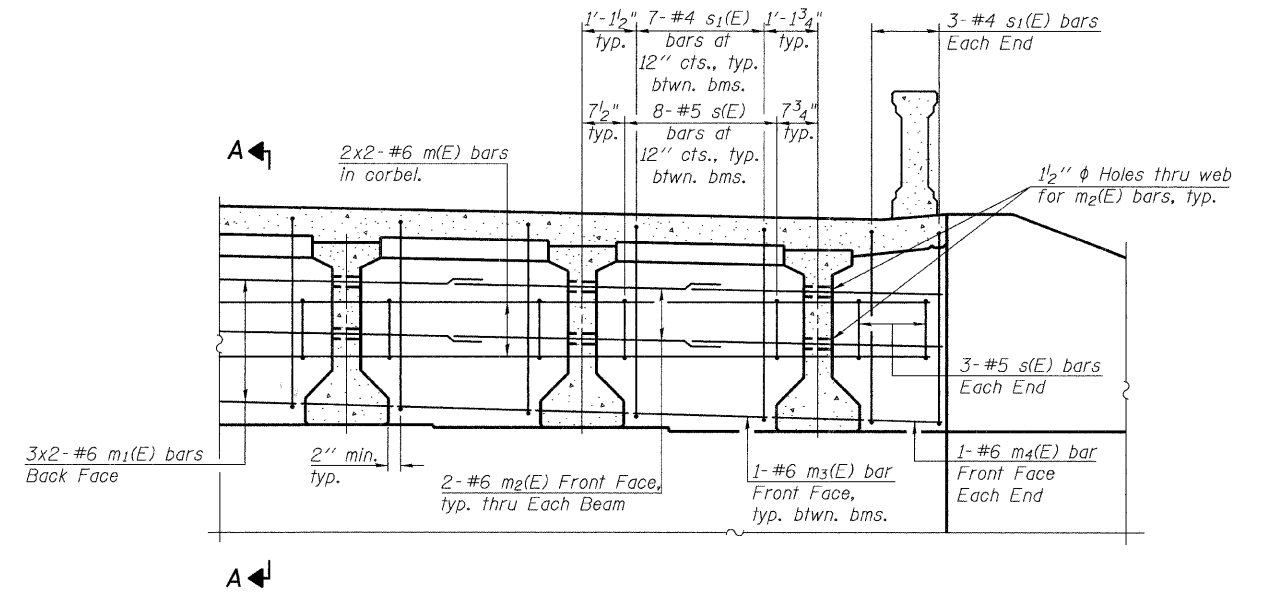
MCHENRY COUNTY
DIVISION OF TRANSPORTATION



SECTION A-A

Dimensions at right angles to abutment, except as shown.

- Notes:
- Reinforcement bars in diaphragm are billed with superstructure on Sheet S-10.
 - Concrete in diaphragm is included with Concrete Superstructure on Sheet S-10.
 - For details of bars s(E), s₁(E) and s₂(E) see Sheet S-10.
 - The s(E), s₁(E) and s₂(E) bars shall be placed parallel to the beams.
 - Spacing for these bars shall be at right angles to the beams.



DIAPHRAGM ELEVATION AT ABUTMENT

MINIMUM BAR LAP
#6 Bars = 3'-7"

**INTEGRAL ABUTMENT
DIAPHRAGM DETAILS
STRUCTURE NO. 056-3173**

SHEET NO. S-8 OF S-20 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		05-00310-00-BR	MCHENRY	44	24
			CONTRACT NO. 63114		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

DESIGNED	AMK
CHECKED	EKM
DRAWN	RD
CHECKED	EKM



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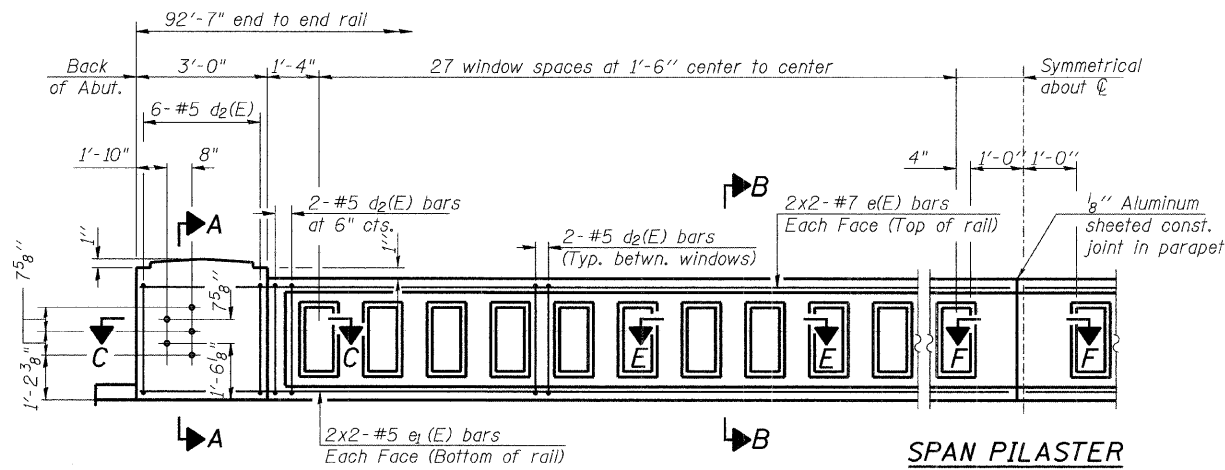
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rdanley

2/6/2009

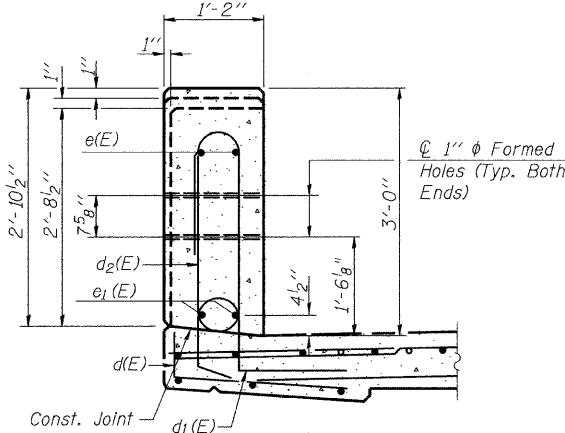
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McHENRY COUNTY
DIVISION OF TRANSPORTATION

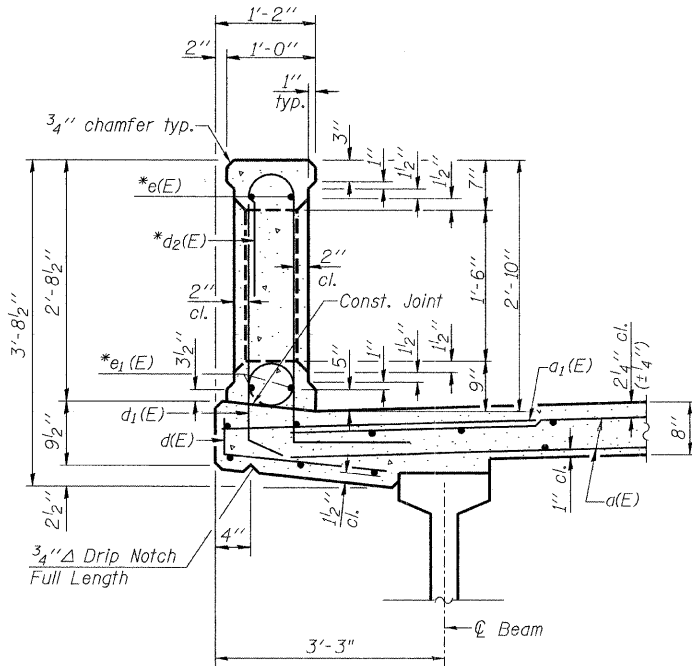


Note:
See Sheet S-10 for additional details, sections
and Bill of Material.

INSIDE ELEVATION OF RAIL



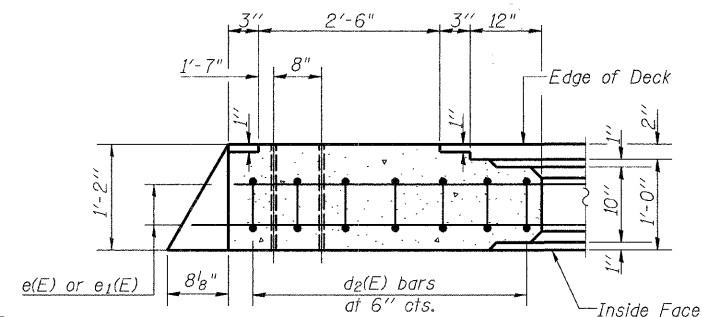
SECTION A-A



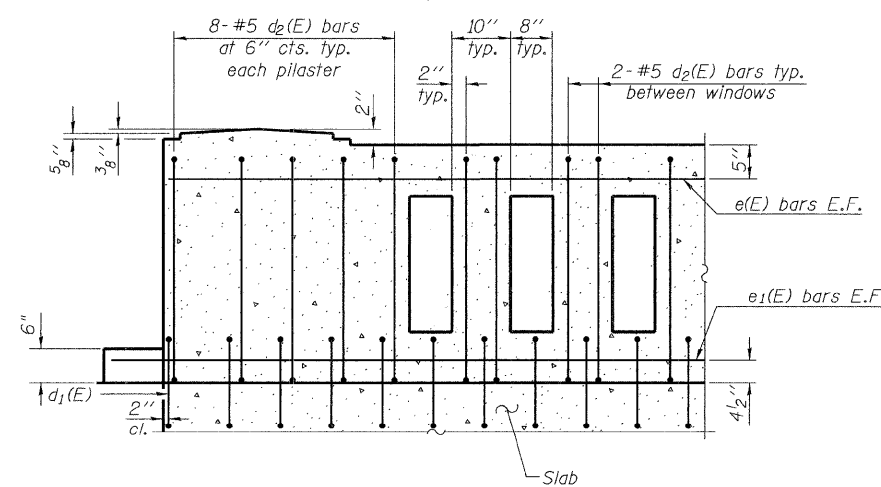
SECTION B-B

*Bars e(E) thru e1(E) and d2(E) are included in
the cost of Concrete Bridge Railing.

Notes:
All concrete for railing wall shall be Class BS according to Article 1020.04
of the Standard Specifications. Surface of railing shall receive a rubbed
finish according to Article 503.15(b) of the Standard Specifications.
All parts of the railing including concrete and reinforcing will be paid for
at the contract unit price per foot for Concrete Bridge Railing.
Holes and recesses must be formed or cored. Drilling is not permitted.
Aluminum sheets shall be according to ASTM B209 alloy 3003-H14.



SECTION C-C



TYPICAL REINFORCEMENT PLACEMENT
(Inside Face)

BAR LIST

Bar	No.	Size	Length	Shape
d2(E)	248	#5	7'-4"	U
e(E)	16	#7	24'-4"	—
e1(E)	16	#5	24'-2"	—

MINIMUM BAR LAP

#5 bars = 1'-8"
#7 bars = 2'-8"

DESIGNED	AMK
CHECKED	EKM
DRAWN	RD
CHECKED	EKM



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5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014 Email chicago@giorba.com

CONCRETE BRIDGE RAILING DETAILS
STRUCTURE NO. 056-3173

SHEET NO. S-9 OF S-20 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		05-00310-00-BR	McHENRY	44	25
	CONTRACT NO. 63114				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

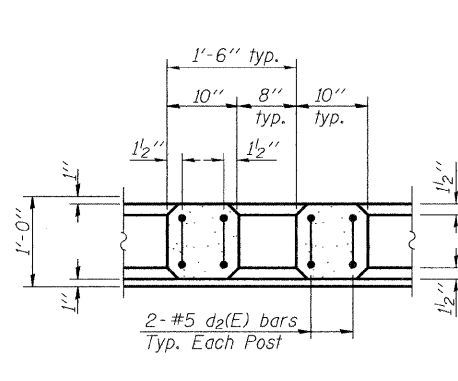
1" / 16"

rdmley

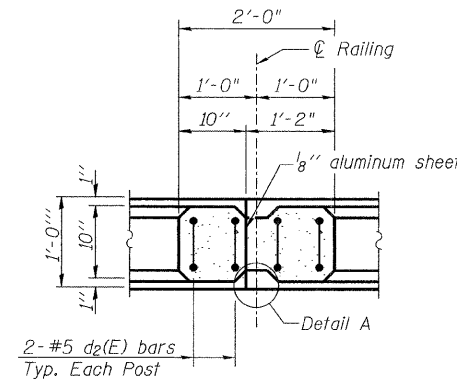
2/6/2009

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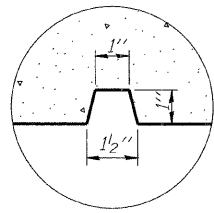
McHENRY COUNTY
DIVISION OF TRANSPORTATION



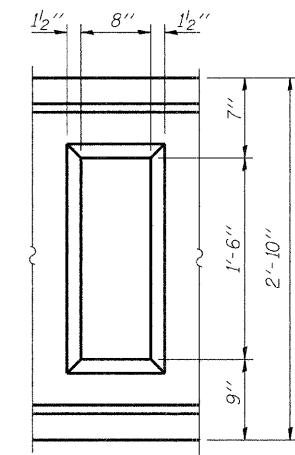
SECTION E-E



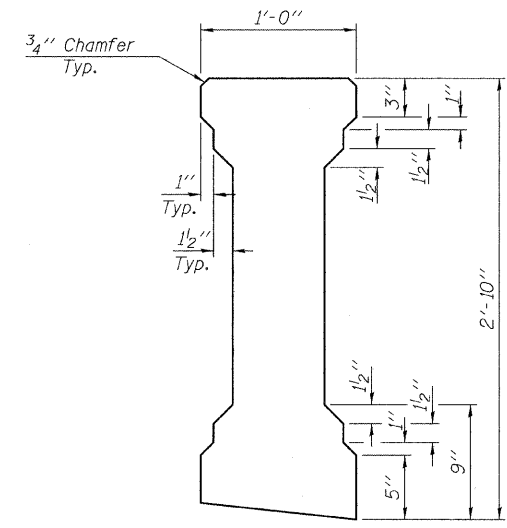
SECTION F-F



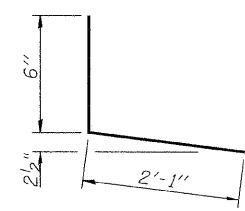
DETAIL A



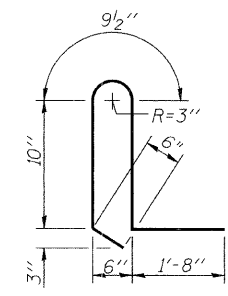
WINDOW DETAIL



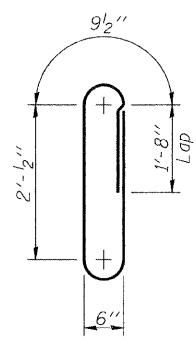
SPAN PILASTER JOINT
ALUMINUM JOINT DETAIL



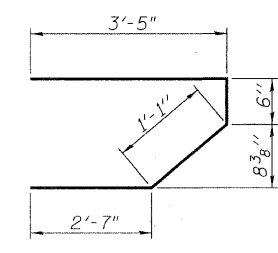
BAR d(E)



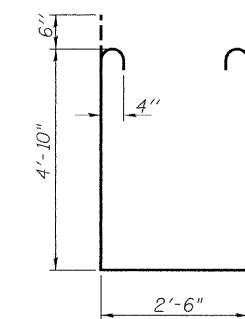
BAR d1(E)



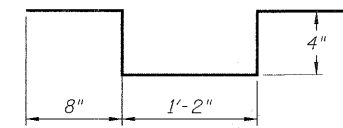
BAR d2(E)



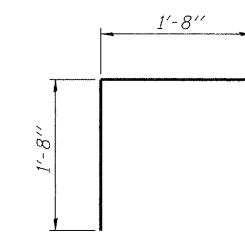
BAR s(E)



BAR s1(E)



BAR a4(E)



BAR v(E)

SUPERSTRUCTURE
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	171	# 5	42' - 0"	—
a1(E)	124	# 5	40' - 4"	—
a2(E)	342	# 6	6' - 0"	—
a3(E)	8	# 5	25' - 4"	—
a4(E)	14	# 4	3' - 2"	┌
b(E)	132	# 5	32' - 5"	—
b1(E)	144	# 5	24' - 10"	—
b2(E)	4	# 4	4' - 6"	—
d(E)	250	# 5	2' - 7"	└
d1(E)	374	# 5	4' - 8"	└
m(E)	8	# 6	25' - 0"	—
m1(E)	12	# 6	26' - 1"	—
m2(E)	24	# 6	11' - 1"	—
m3(E)	10	# 6	5' - 10"	—
m4(E)	4	# 6	2' - 4"	—
s(E)	92	# 5	7' - 7"	┌
s1(E)	82	# 4	13' - 2"	└
v(E)	84	# 5	3' - 4"	└
Reinforcement Bars, Epoxy Coated			Pound	29,740
Concrete Superstructure			Cu. Yds.	147.4
Concrete Bridge Railing			Foot	186
Bridge Deck Grooving			Sq. Yd.	394
Protective Coat			Sq. Yd.	498
Rubbed Finish			Sq. Ft.	1,023

Bars indicated thus 1 x 15-#5 etc. indicates 1 line of bars with 15 lengths per line.

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 056-3173

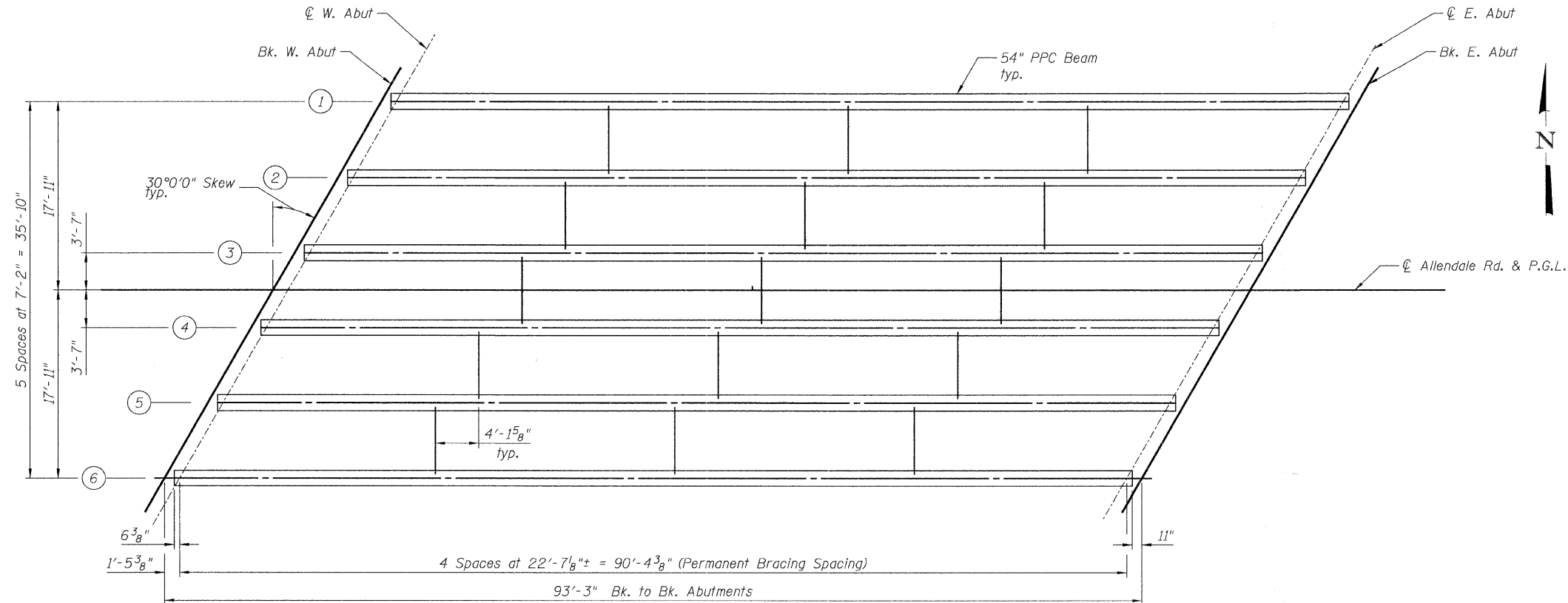
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		05-00310-00-BR	McHENRY	44	26
			CONTRACT NO. 63114		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

DESIGNED	AMK
CHECKED	EKM
DRAWN	RD
CHECKED	EKM

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5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656
Tel. 773.775.4009 Fax 773.775.4014 Email chicago@ciorba.com

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McHENRY COUNTY
DIVISION OF TRANSPORTATION



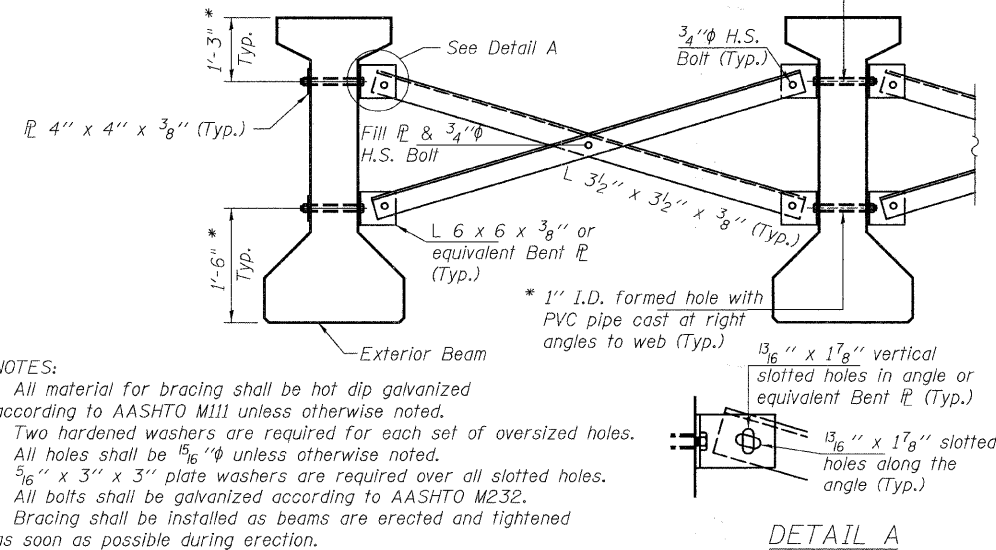
FRAMING PLAN

INTERIOR BEAM MOMENT TABLE		
0.5 Span		
I	(in ⁴)	213,715
I'	(in ⁴)	509,191
S_b	(in ³)	8,559
S_b'	(in ³)	12,802
S_t	(in ³)	7,362
S_t'	(in ³)	35,791
$DC1$	(k/ft)	1,372
M_{DC1}	(k)	1,400
$DC2$	(k/ft)	0.125
M_{DC2}	(k)	128
DW	(k/ft)	0.333
M_{DW}	(k)	340
M_{L+IM}	(k)	1,554

INTERIOR BEAM REACTION TABLE		
Abut.		
R_{DC1}	(k)	62.0
R_{DC2}	(k)	5.6
R_{DW}	(k)	15.1
R_{L+IM}	(k)	96.7
R_{Total}	(k)	179.4

- I : Non-composite moment of inertia of beam section (in⁴).
- I' : Composite moment of inertia of beam section (in⁴).
- S_b : Non-composite section modulus for the bottom fiber of the prestressed beam (in³).
- S_b' : Composite section modulus for the bottom fiber of the prestressed beam (in³).
- S_t : Non-composite section modulus for the top fiber of the prestressed beam (in³).
- S_t' : Composite section modulus for the top fiber of the prestressed beam (in³).
- $DC1$: Un-factored non-composite dead load (kips/ft.).
- M_{DC1} : Un-factored moment due to non-composite dead load (kip-ft.).
- $DC2$: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
- M_{DC2} : Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
- DW : Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
- M_{DW} : Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
- M_{L+IM} : Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

* Fabricator shall locate to miss strands within permissible tolerances.
 3/4" φ A307 Bolts with lock nuts. (Typ.)
 Bolts through the concrete web shall be tightened to snug tight only.



NOTES:
 All material for bracing shall be hot dip galvanized according to AASHTO M111 unless otherwise noted.
 Two hardened washers are required for each set of oversized holes.
 All holes shall be 15/16" φ unless otherwise noted.
 5/16" x 3" x 3" plate washers are required over all slotted holes.
 All bolts shall be galvanized according to AASHTO M232.
 Bracing shall be installed as beams are erected and tightened as soon as possible during erection.
 Permanent bracing will not be measured separately for payment, but shall be included in the cost of Furnishing and Erecting Precast Prestressed Beams of the type and size specified.

PERMANENT BRACING DETAILS FOR
48" AND 54" PPC I-BEAMS

DESIGNED	AMK
CHECKED	EKM
DRAWN	RD
CHECKED	EKM



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 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656
 Tel. 773.775.4009 Fax 773.775.4014 Email chicago@ciorba.com

FRAMING PLAN
STRUCTURE NO. 056-3173

SHEET NO. S-11 OF S-20 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 63114		

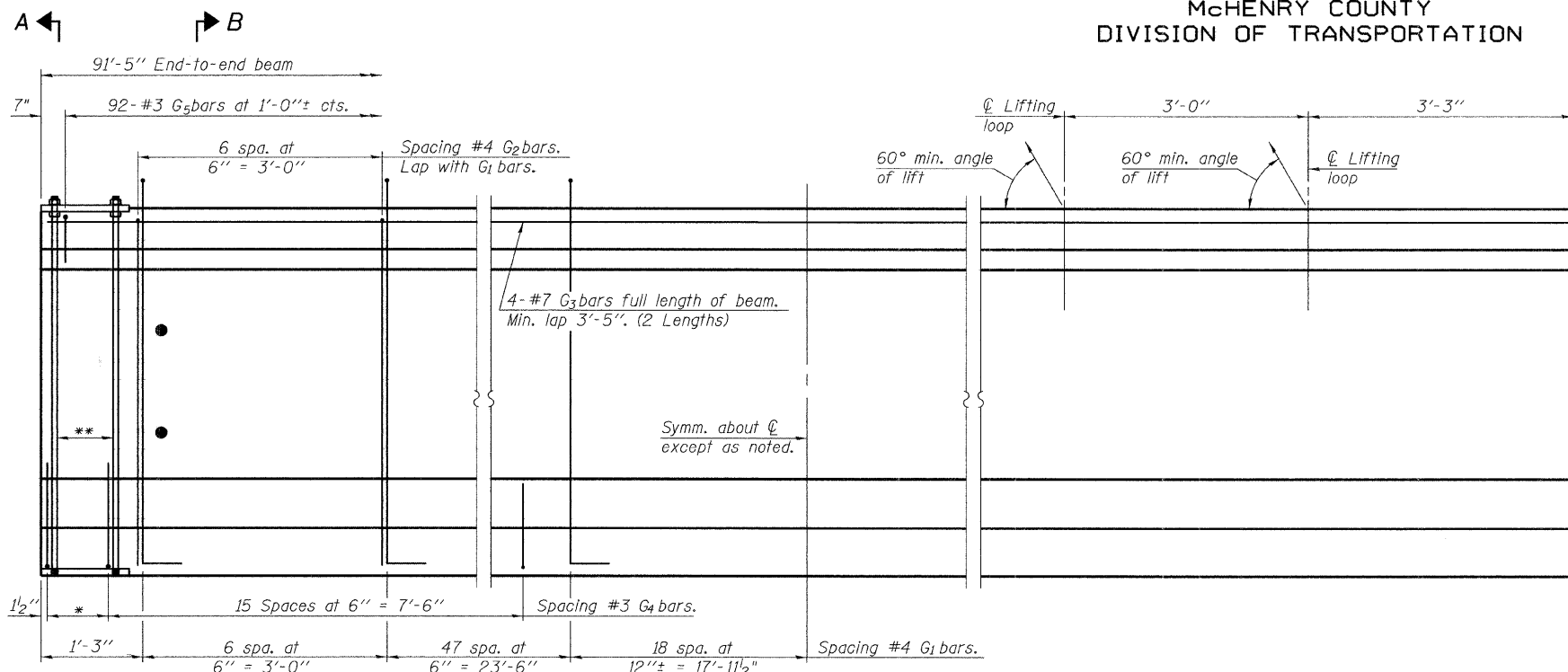
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2/6/2009

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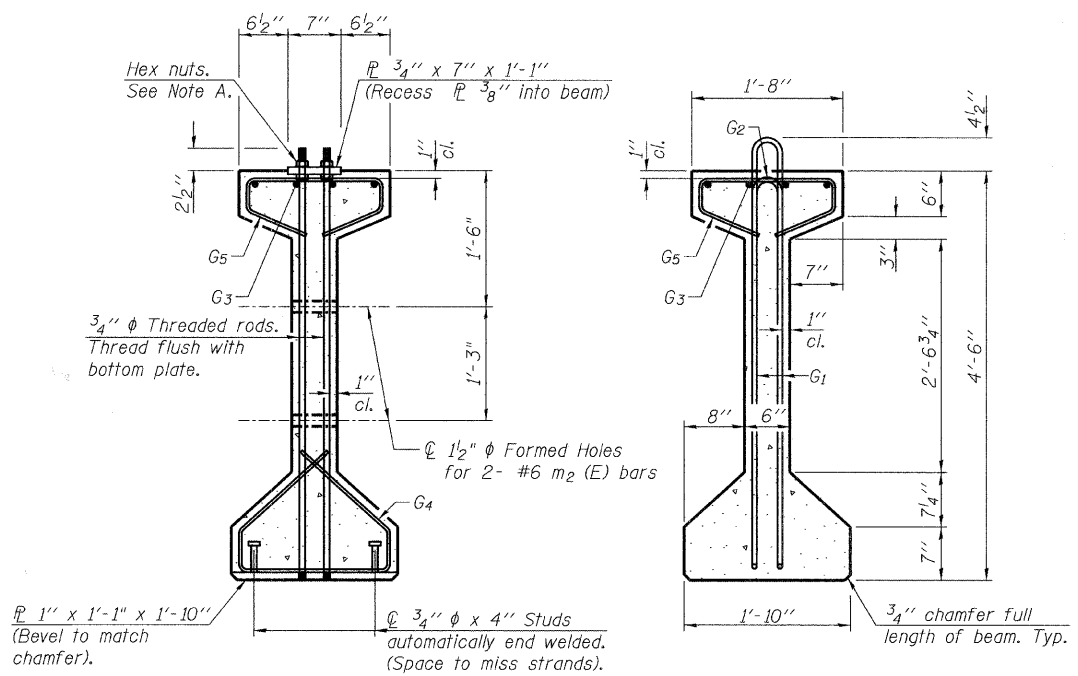
McHENRY COUNTY
DIVISION OF TRANSPORTATION



ELEVATION OF BEAM
(Showing reinforcement & dimensions)

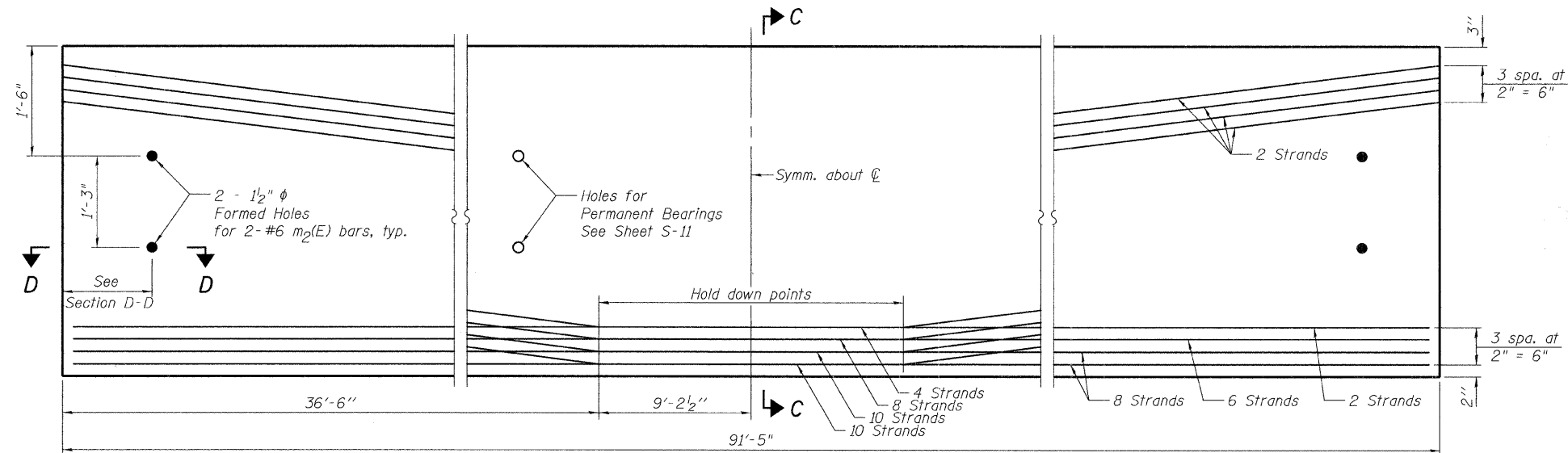
*3 spaces at 3" = 9".
**4-3/4" ϕ threaded dowel rods at 3" cts., Each Face.

Note A:
Hex nuts (top and bottom) with lock washers (top). Only tighten sufficiently to compress lock washers.

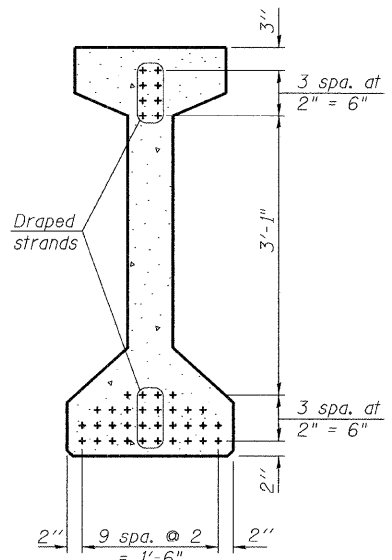


SECTION A-A

SECTION B-B



ELEVATION OF BEAM
(Showing prestressing steel)



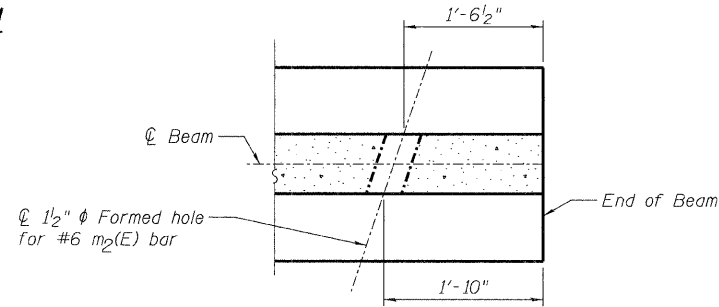
SECTION C-C

*****BAR LIST
ONE BEAM ONLY**

Bar	No.	Size	Length	Shape
G ₁	143	#4	10'-5"	∩L
G ₂	14	#4	8'-8"	∩
G ₃	8	#7	47'-3"	—
G ₄	38	#3	4'-11"	∩
G ₅	92	#3	3'-5"	∩

***For information only

Notes:
See Sheet S-13 for additional details and Bill of Material.
Required release strength, f'ci, shall be 6,000 psi.



SECTION D-D
Other end similar by rotation

DESIGNED	AMK
CHECKED	EKM
DRAWN	RD
CHECKED	EKM
PI-4-54	
5-16-08	

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Tel. 773.775.4009 Fax 773.775.4014 Email chicago@giorba.com

SHEET NO. S-12 OF S-20 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		05-00310-00-BR	McHENRY	44	28
	CONTRACT NO. 63114				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

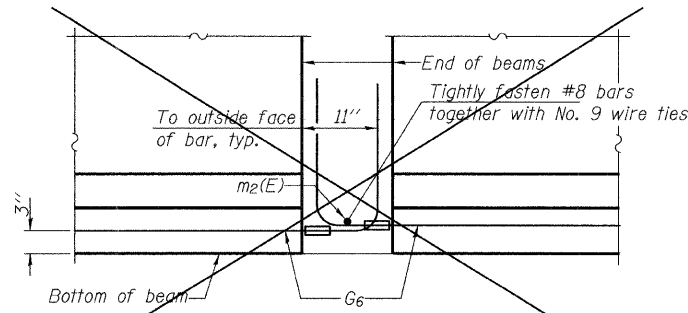
**54" PPC I-BEAM DETAILS I
STRUCTURE NO. 056-3173**

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 r.danley
 2/6/2009
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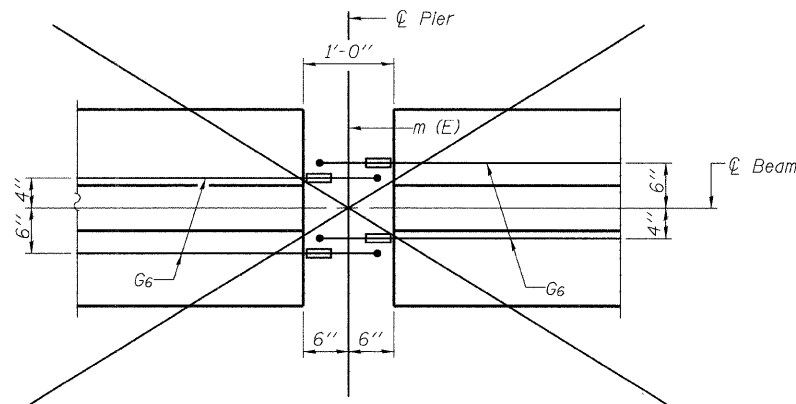
McHENRY COUNTY
DIVISION OF TRANSPORTATION

NOTES

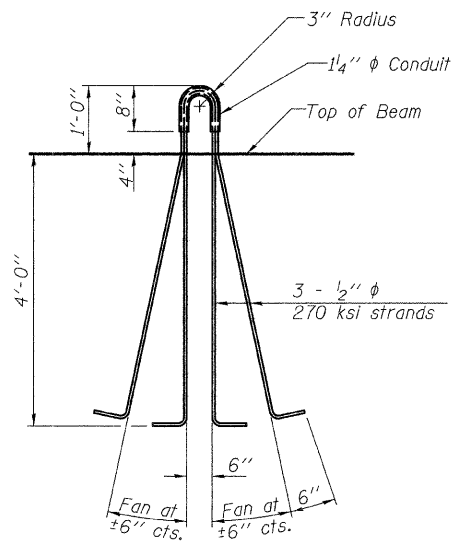
Inserts for 3/4" φ threaded dowel rods, when specified, are to be two strut, ferrule type for interior beams and single ferrule, flared loop type for exterior beams.
 Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
 Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions).
 A minimum 2 1/2" φ lifting pin shall be used to engage the lifting loops during handling.
 Tilt G6 bars when necessary to maintain 1/2" clearance.
 The top and bottom plates shall be AASHTO M270 Grade 50.
 The bottom plates and studs shall be galvanized according to AASHTO M111.
 Threaded rods shall be ASTM F 1554 Grade 55.
 The G6 bar assembly shall have the threaded ends oversized to ensure no reduction in cross-sectional area after threading. The coupler splice shall be capable of developing 125 percent of the yield strength of the reinforcement bar.



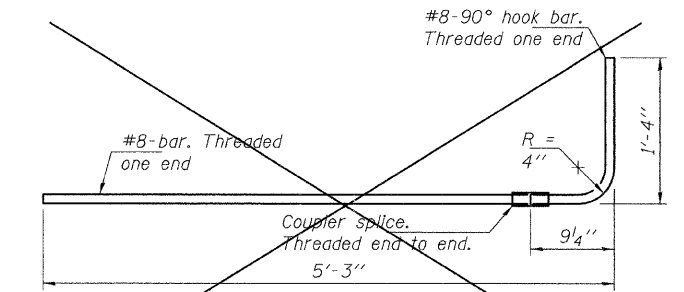
ELEVATION OF BEAM AT PIER



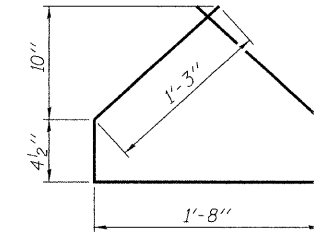
PLAN OF BEAM AT PIER



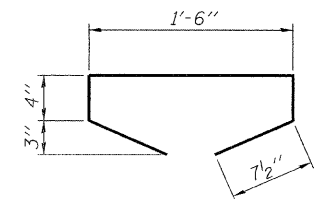
LIFTING LOOP DETAIL



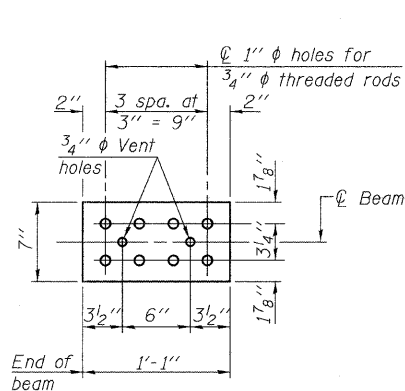
G6 BAR ASSEMBLY



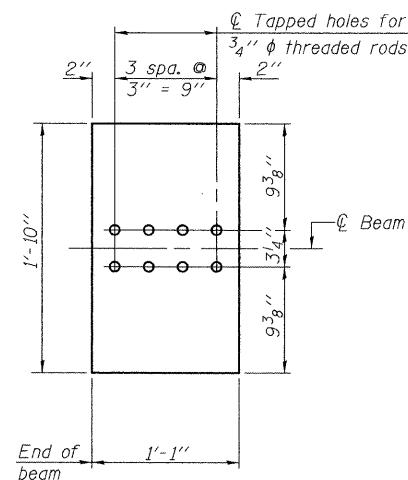
BAR G4



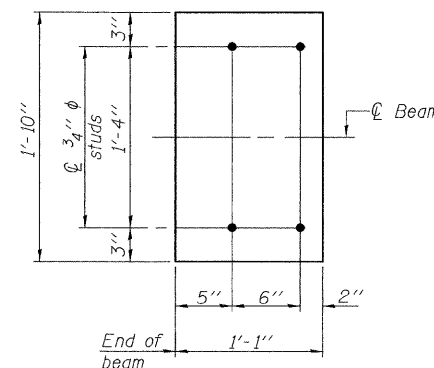
BAR G5



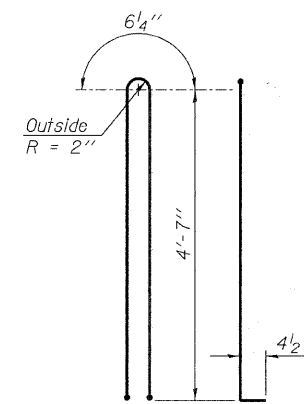
TOP PLATE



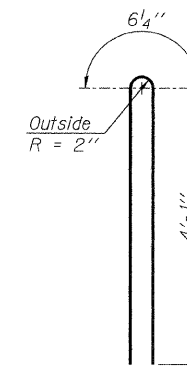
BOTTOM PLATE
(Showing threaded rods)



BOTTOM PLATE
(Showing studs)



BAR G1



BAR G2

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 54"	Ft.	548.5

54" PPC I-BEAM DETAILS II
STRUCTURE NO. 056-3173

SHEET NO. S-13 OF S-20 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		05-00310-00-BR	McHENRY	44	29
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT		

DESIGNED	AMK
CHECKED	EKM
DRAWN	RD
CHECKED	EKM



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PI-4-54D 5-16-08

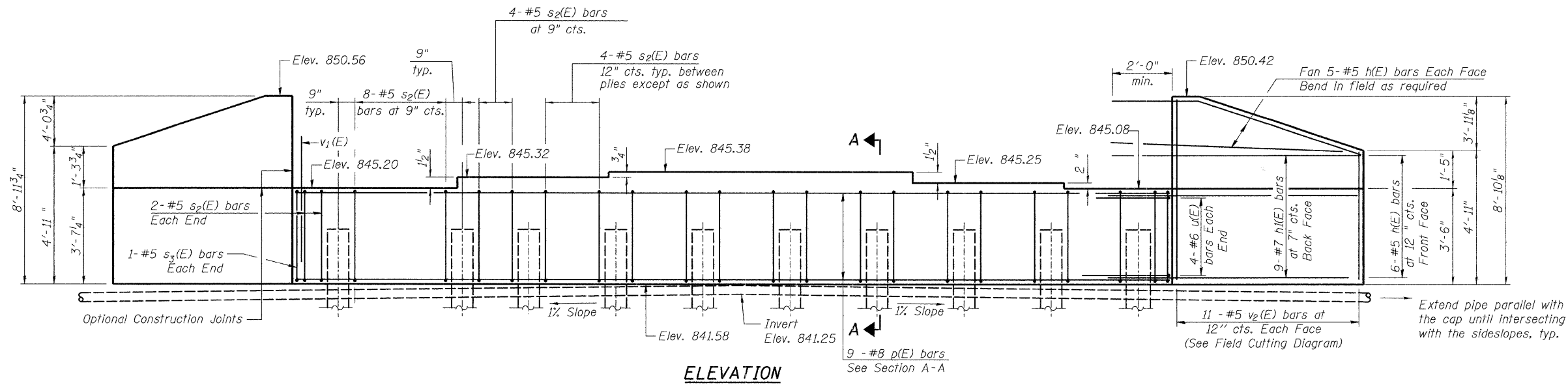
1/1 IN.

rdm:ley

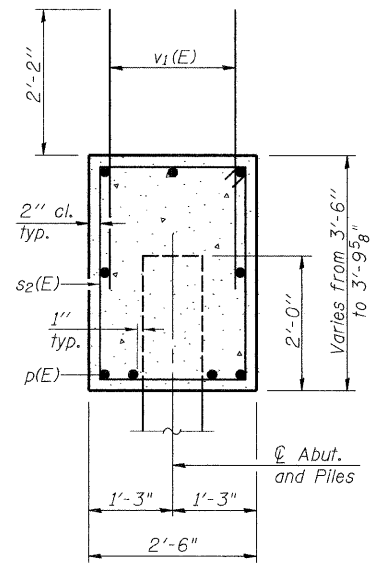
2/6/2009

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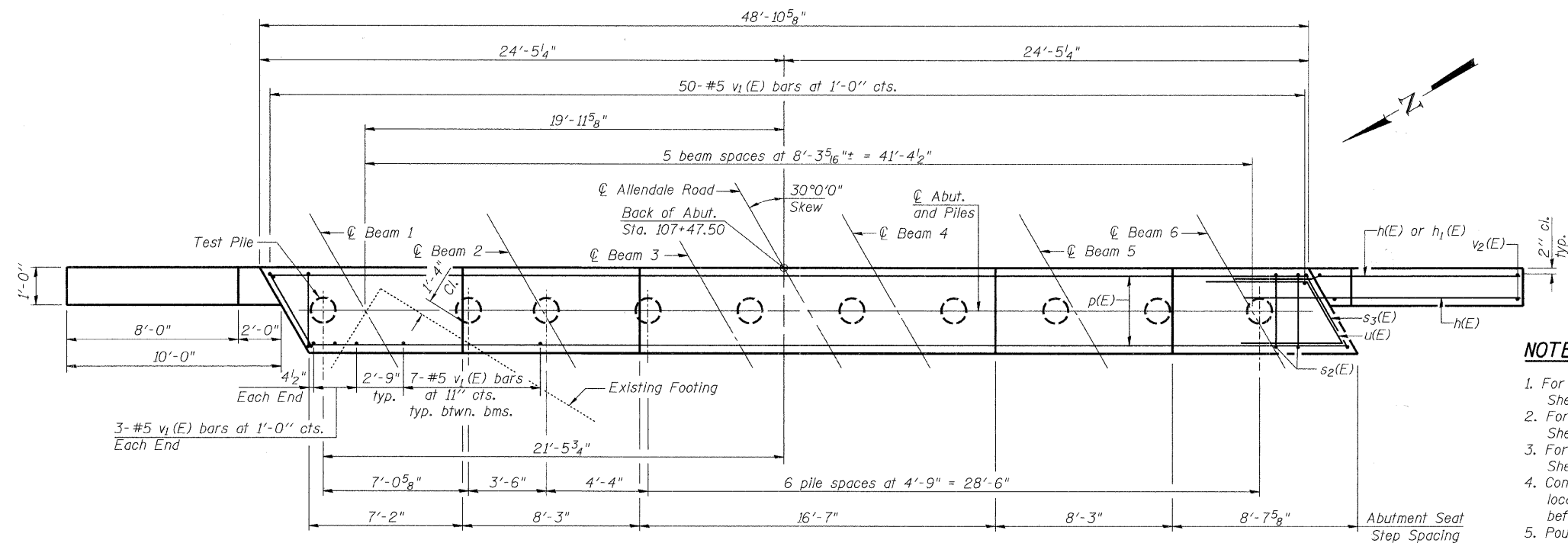
McHENRY COUNTY
DIVISION OF TRANSPORTATION



ELEVATION



SECTION A-A



PLAN

PILE DATA

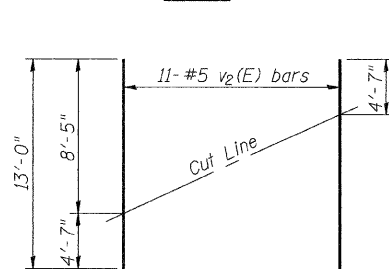
Type: Metal Shell - 14in. dia. X 0.312 in walls with pile shoes
 Nominal Required Bearing: 460k
 Factored Resistance Available: 230k
 Est. Length: 33'
 No. Production Piles: 9
 No. Test Piles: 1

NOTES:

- For details of Bar Splicers, see Sheet S-18.
- For details of piles, see Sheet S-17.
- For Section thru Abutment, see Sheet S-2.
- Contractor shall verify the location of the existing footing before driving new piles.
- Pour steps monolithic with cap.
- For Abutment diaphragm details, see Sheet S-8.

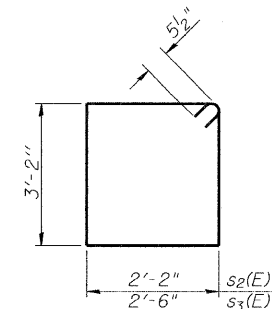
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	32	#5	12'-6"	—
h1(E)	18	#7	12'-6"	—
p(E)	9	#8	48'-6"	—
s2(E)	44	#5	11'-7"	□
s3(E)	2	#5	12'-3"	□
u(E)	8	#6	9'-7"	┌
v1(E)	91	#5	4'-4"	—
v2(E)	22	#5	13'-0"	—
Porous Granular Embankment (Special)		Cu. Yd.	105	
Structure Excavation		Cu. Yd.	179	
Concrete Structures		Cu. Yd.	21.7	
Reinforcement Bars, Epoxy Coated		Pound	3,430	
Furnishing Metal Shell Piles, 14"x 0.312"		Foot	297	
Driving Piles		Foot	297	
Test Pile Metal Shells		Each	1	
Pile Shoes		Each	10	
Geocomposite Wall Drain		Sq. Yd.	64	
Pipe Underdrain for Structures, 4"		Foot	85	

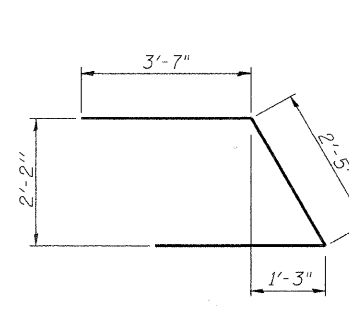


FIELD CUTTING DIAGRAM

Order v2(E) full length. Cut as shown and use remainder of bars in opposite face.



BARS s2(E) & s3(E)



BAR u(E)

SHEET NO. S-15 OF S-20 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		05-00310-00-BR	McHENRY	44	31
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	CONTRACT NO. 63114	

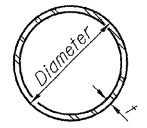
**EAST ABUTMENT
STRUCTURE NO. 056-3173**

1.0000000 1 / IN.
 rdm:ley
 2/6/2009
 N:\PROJ\3335\Design\Structural\CAD\3335 15 East Abutment.dgn

DESIGNED	AMK
CHECKED	EKM
DRAWN	RD
CHECKED	EKM

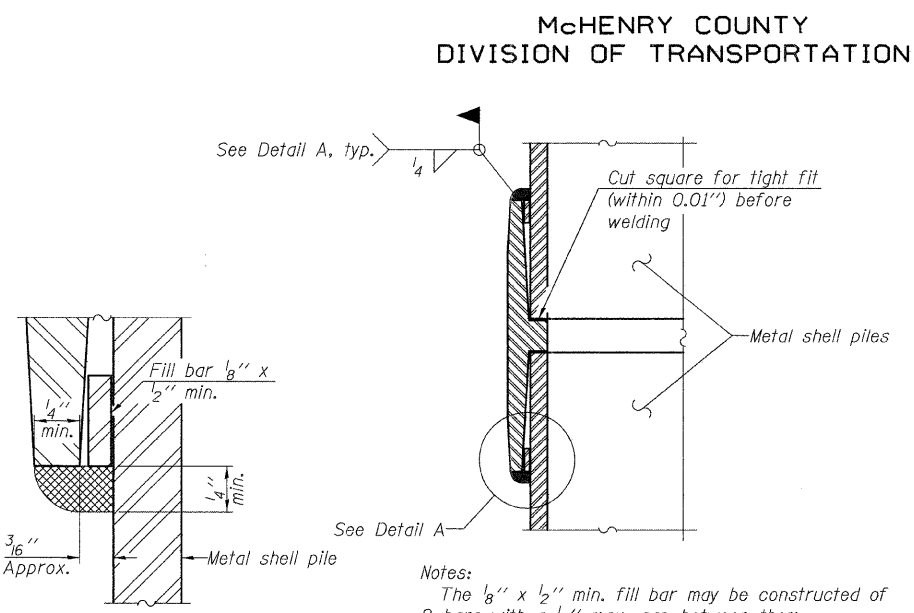
Ciorba Group, Inc.
 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656
 Tel. 773.775.4009 Fax 773.775.4014 Email chicago@ciorba.com

1' / IN.
 rdanley
 2/6/2009
 NA:\PROJ\3335\Design\Structural\CAD\3335 17 Pile Details.dgn



METAL SHELL PILE TABLE

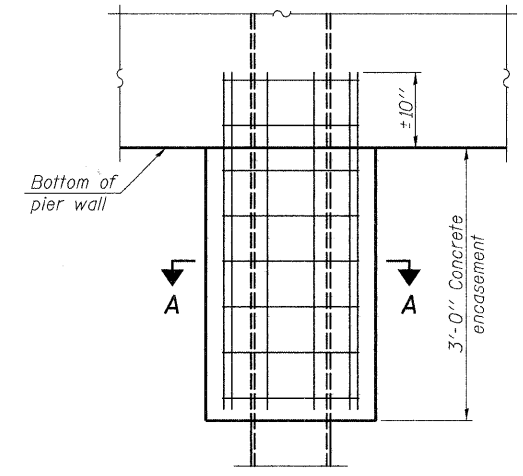
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.179"	22.60	0.0274
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361



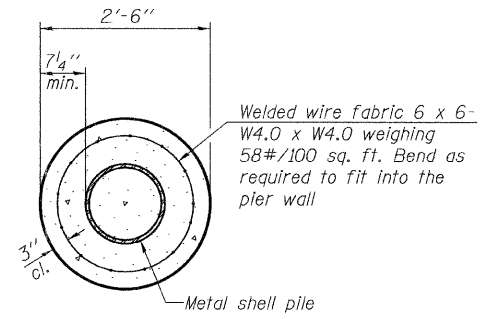
DETAIL A

Notes:
 The $\frac{1}{8}'' \times \frac{1}{2}''$ min. fill bar may be constructed of 2 bars with a $\frac{1}{8}''$ max. gap between them.
 Pile segments shall be driven to solid contact with splicer before welding.

WELDED COMMERCIAL SPLICE



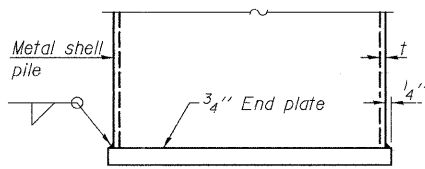
ELEVATION



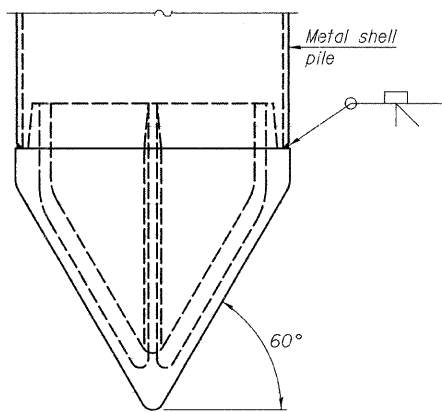
SECTION A-A

Note: Forms for encasement may be omitted when soil conditions permit.

CONCRETE ENCASEMENT AT PIERS



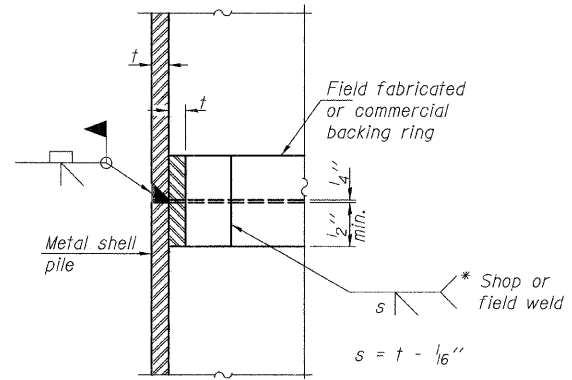
END PLATE ATTACHMENT



Note A:
 When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld.

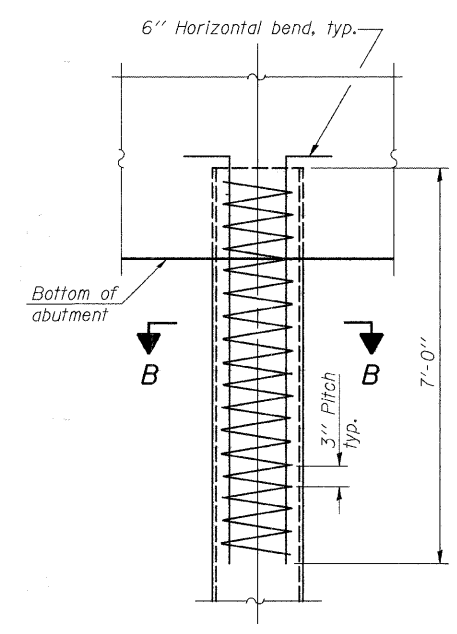
METAL SHELL PILE SHOE ATTACHMENT

(See Note A)

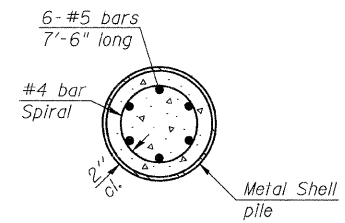


COMPLETE PENETRATION WELD SPLICE

* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.



ELEVATION



SECTION B-B

METAL SHELL REINFORCEMENT AT ABUTMENTS

**METAL SHELL PILE DETAILS
 STRUCTURE NO. 056-3173**

DESIGNED	AMK
CHECKED	EKM
DRAWN	RD
CHECKED	EKM



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Note: The metal shell piles shall be according to ASTM A 252 Grade 3.

SHEET NO. S-17 OF S-20 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		05-00310-00-BR	MCHENRY	44	33
	CONTRACT NO. 63114				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

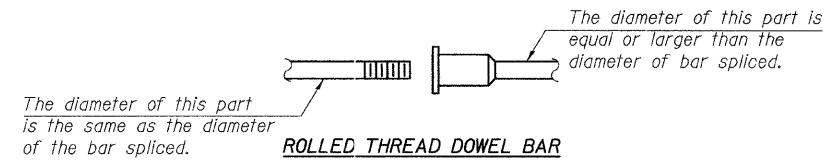
F-MS 5-16-08

McHENRY COUNTY
DIVISION OF TRANSPORTATION

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.
All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- ① Minimum Capacity = $1.25 \times f_y \times A_t$
(Tension in kips)
 - ② Minimum *Pull-out Strength = $0.66 \times f_y \times A_t$
(Tension in kips)
- Where f_y = Yield strength of lapped reinforcement bars in ksi.
 A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

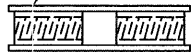


ROLLED THREAD DOWEL BAR



**** ONE PIECE**

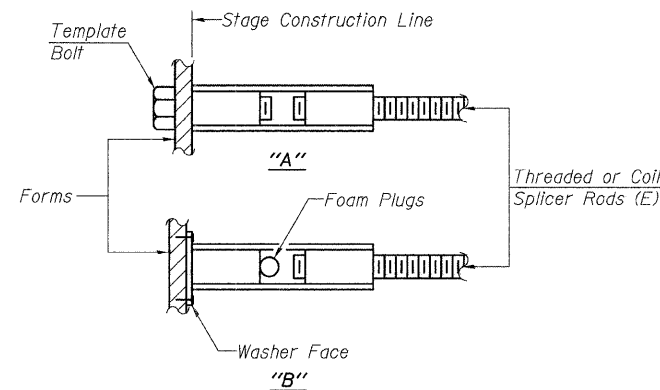
Wire Connector



WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

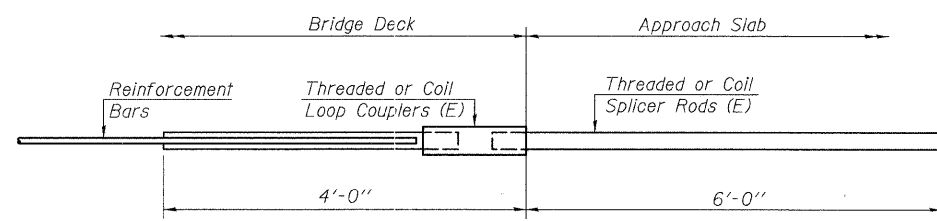
**Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



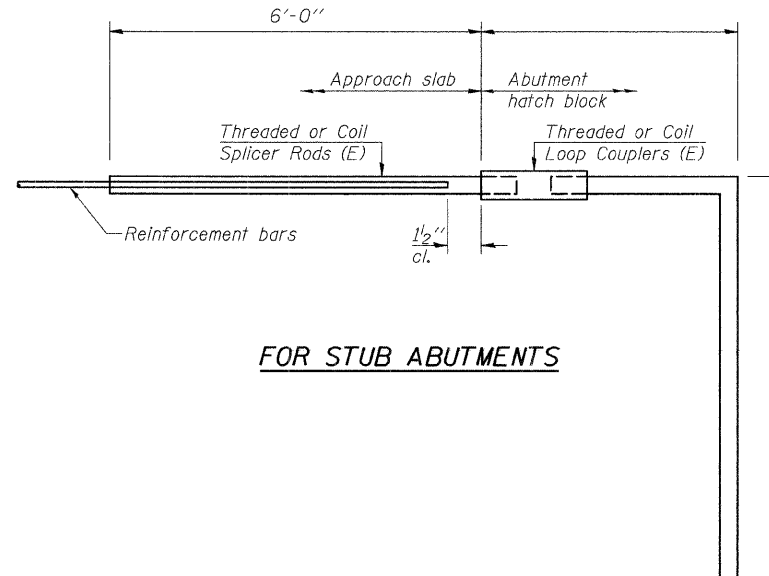
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.

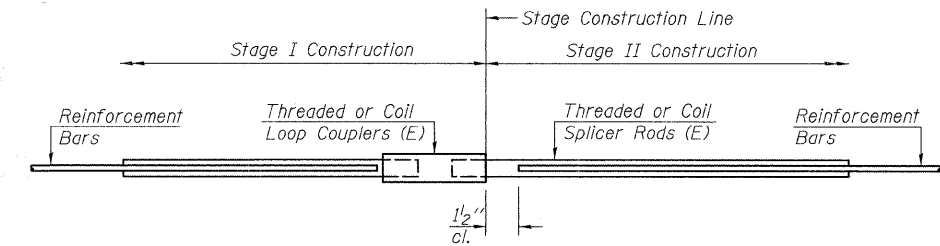
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	7.9
#5	2'-0"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS



FOR STUB ABUTMENTS



STANDARD

Bar Size	No. Assemblies Required	Location

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required = 80

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 12.3 kips - tension
No. Required =

DESIGNED AMK
CHECKED EKM
DRAWN RD
CHECKED EKM



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5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656
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**BAR SPLICER ASSEMBLY DETAILS
STRUCTURE NO. 056-3173**

SHEET NO. S-18 OF S-20 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		05-00310-00-BR	McHENRY	44	34
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT		
			CONTRACT NO. 63114		

1 / 1 IN.

rdanley

2/6/2009

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BSD-1

5-16-08

McHENRY COUNTY
DIVISION OF TRANSPORTATION

CHICAGO TESTING LABORATORY, INC.

BRIDGE FOUNDATION BORING LOG

SHEET 1 OF 1

PROJECT: Altendale Road Bridge CTL FILE # 06MC208 DATE 2/17/06
 ROUTE: Altendale Road DESCRIPTION: Bridge over Vander Karr Creek BORED BY: DR
 SECTION: 05-00310-00-BR LOCATION: SW 1/4, Sec. 3, T45 N, R. 7 E LOGGED BY: DS
 COUNTY: McHenry (IL) DRILLING METHOD: Mud Rotary/Casing to 28' bgs CHECKED BY: CC

STRUCTURE		HAMMER TYPE		Automatic		WATER ELEV.		11' below bridge	
NUMBER	East Abutment	Depth	N/6"	Qu	W	ENCOUNTERED	11'	Qu	W
BORING	SB-2			tsf	%	AFTER	HOURS	tsf	%
STATION	See Sketch								
OFFSET	5' S of center of road								
GROUND SURFACE EL. 846.5 Ft. M (Ft)									
5" Bituminous Concrete Pavement									
1.5" Brown SAND and GRAVEL, medium dense, A-1-b, FILL		15	-	5		SAND and GRAVEL, dense to very dense, A-1-b, with Cobbles		36	
Brown CLAY, very stiff, A-6, FILL		5	3.0	17				25	0
		7		P		Boulder @ 23'		19	
Brown SAND and GRAVEL mixed with some Brown CLAY, loose, A-2-6, FILL		3		5				10	
		3						17	4
		3						13	
		5						12	
		3		11		Brown CLAY, very stiff, A-6		14	2.5
		3						17	P
Organic SILT and PEAT Fibers, soft, A-8		0						12	
		2		26				15	3.75
		2						16	P
SAND and GRAVEL, medium dense, A-1-b		6							
		10		11					
		12							
		13						10	
		9		7				16	3.75
		6		3.25				20	P
Grey CLAY, very stiff, A-6		5				End of Boring @ 35.0'			
		5		3.71					
		12		14					
		16		6					
SAND and GRAVEL, dense to very dense, A-1-b with Cobbles		8							
		46		10					
		23							

N-Standard Penetration Test- Blows per foot to drive 2 inch
 O.D. Split Spoon Sampler 12 inches with 140 lbs. hammer falling 30 inches
 Qu- Unconfined Compressive Strength (tsf)
 W- Water Content-percentage of oven dry weight (%)
 Type failure: B- Bulge Failure
 S- Shear Failure
 E- Estimated Value
 P-Penetrometer

140.00000 'r / IN. rdenley 2/6/2009 N:\PROJECTS\Design\Structural\CAD\3335 20 Soil Borings.dgn

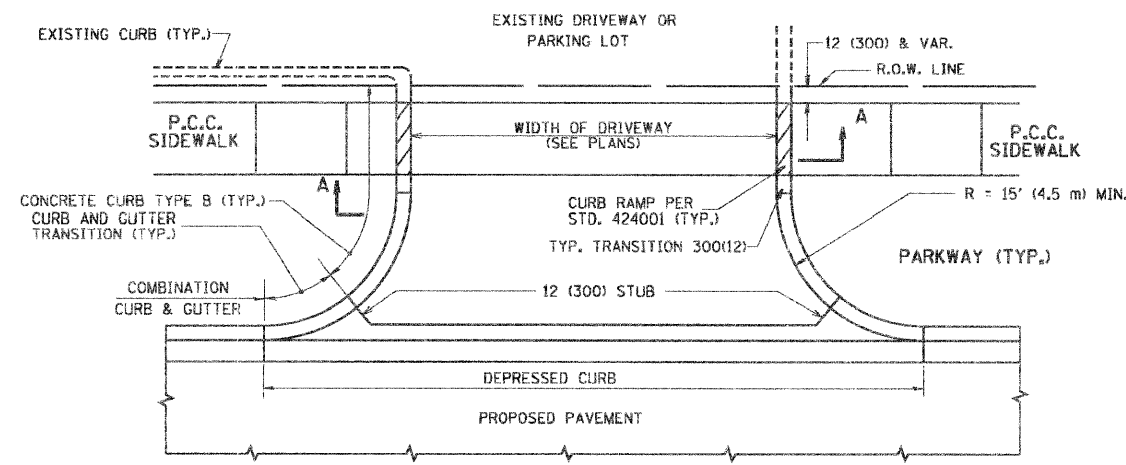
DESIGNED	AMK
CHECKED	EKM
DRAWN	RD
CHECKED	EKM



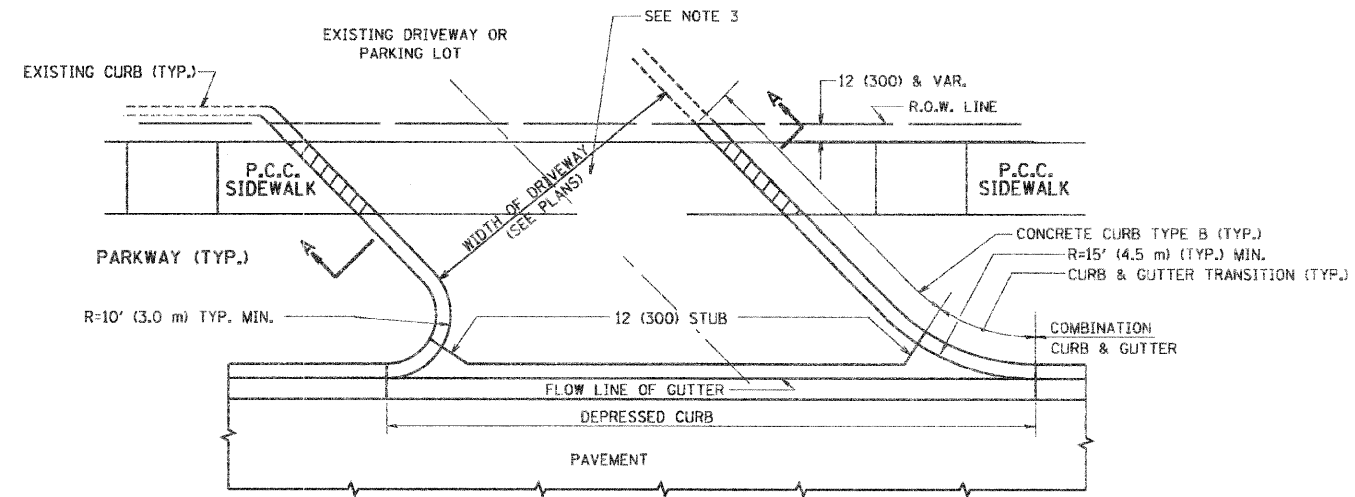
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SOIL BORINGS 2
STRUCTURE NO. 056-3173

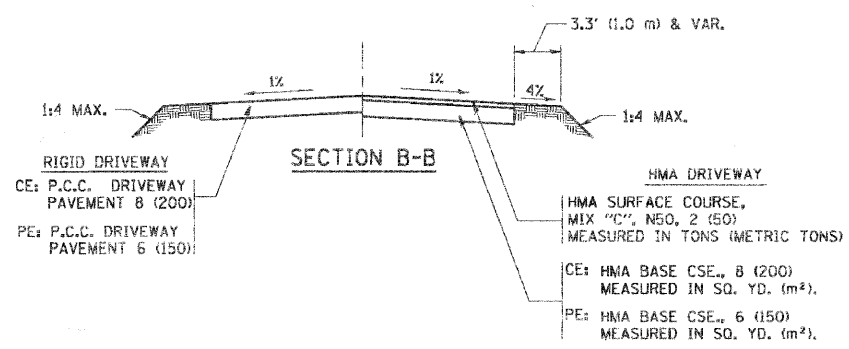
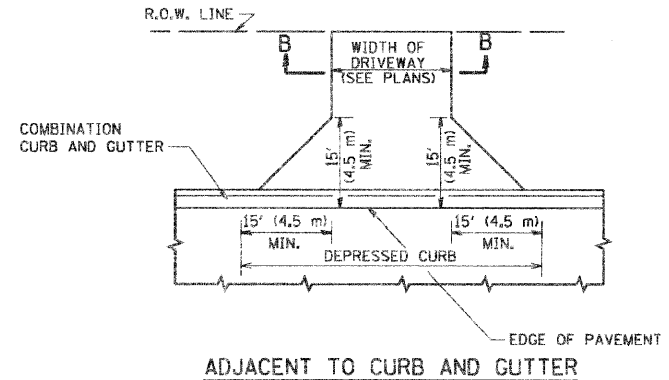
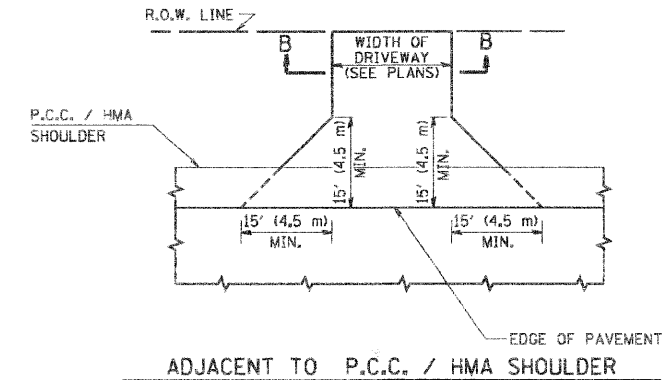
SHEET NO. S-20 OF S-20 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		05-00310-00-BR	McHENRY	44	36
FED. ROAD DIST. NO.			ILLINOIS	FED. AID PROJECT	
			CONTRACT NO. 63114		



WITH CONCRETE CURB, TYPE B



WITH CONCRETE CURB, TYPE B



RURAL FIELD ENTRANCE (FE)
 HMA SURFACE COURSE, MIX "C", N50, 2 (50) MEASURED IN TONS (METRIC TONS)
 AGGREGATE BASE CSE., TYPE B, 8 (200) MEASURED IN SQ. YD. (m²).

GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

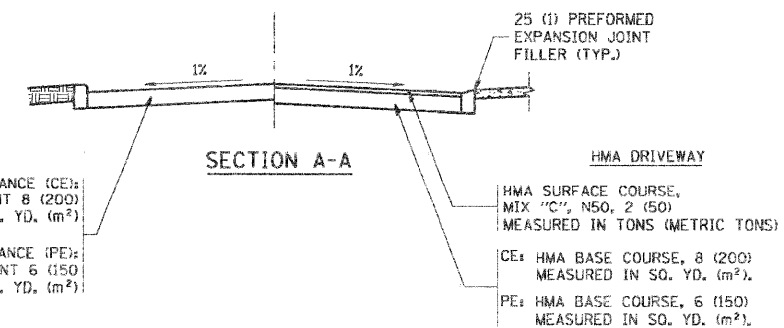
COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.

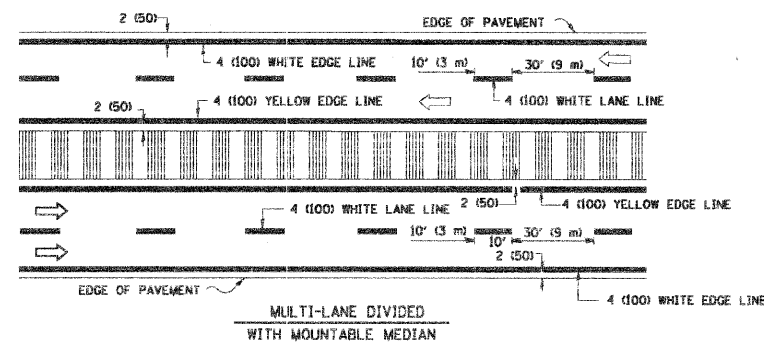
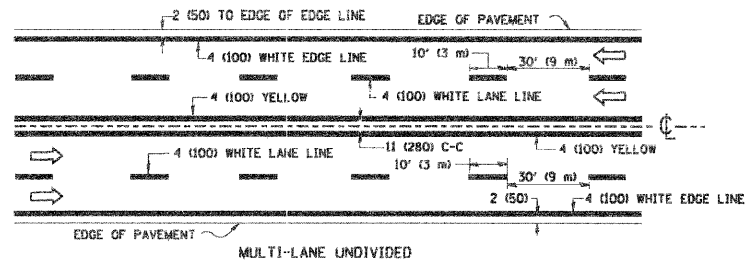
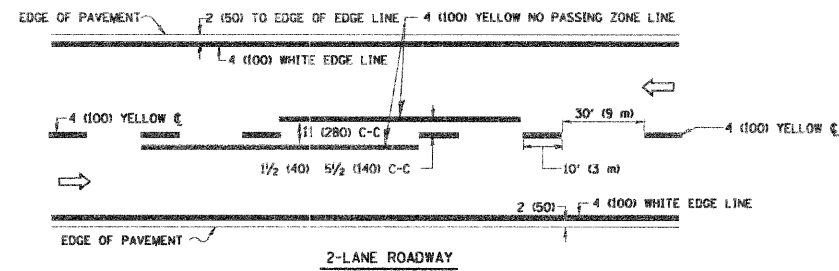


FILE NAME =	USER NAME = bauerdi	DESIGNED - R. SHAH	REVISED - M. GOMEZ 04-06-01
ai\projects\distad22x34\bd01.dgn		DRAWN -	REVISED - P. LOFLUER 04-15-03
	PLOT SCALE = 49.9999' / IN.	CHECKED -	REVISED - R. BORO 01-01-07
	PLOT DATE = 6/12/2008	DATE - 11-04-95	REVISED - R. BORO 06-11-08

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

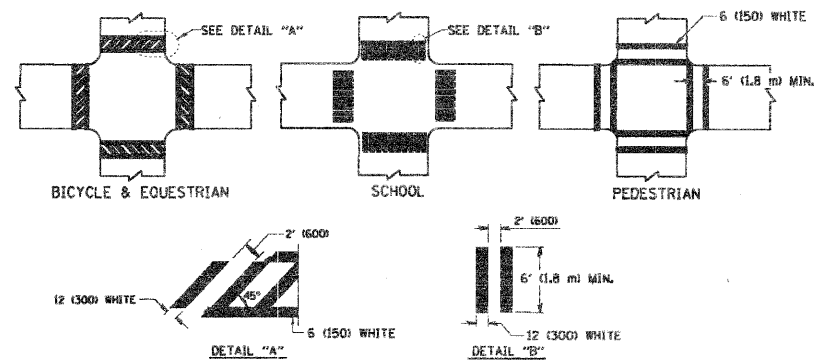
DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE. 73	SECTION 05-00310-00-BR	COUNTY McHENRY	TOTAL SHEETS 44	SHEET NO. 37
BDD0156-07 (BD-01)		CONTRACT NO. 63114		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

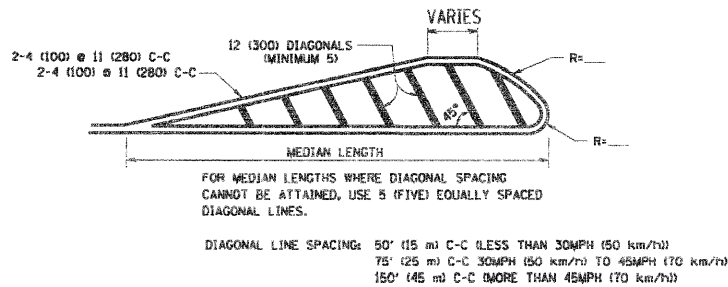
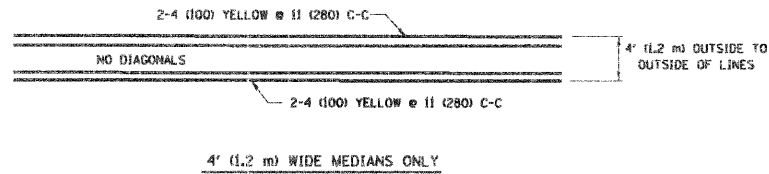


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

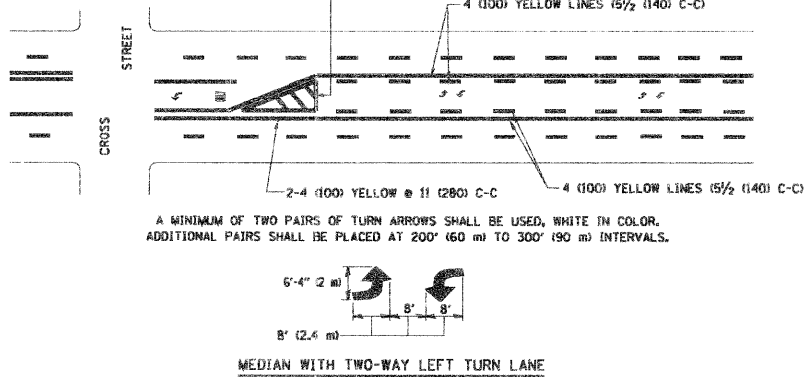
TYPICAL LANE AND EDGE LINE MARKING



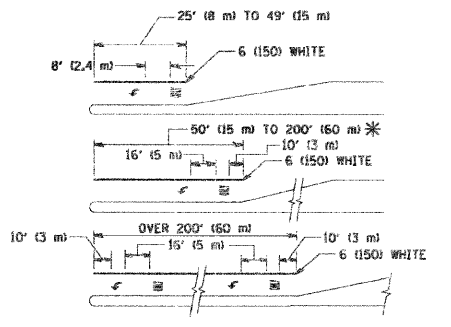
TYPICAL CROSSWALK MARKING



MEDIANS OVER 4' (1.2 m) WIDE



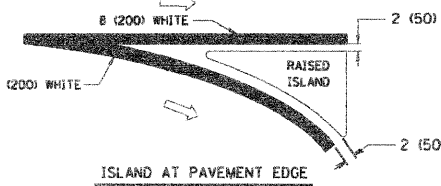
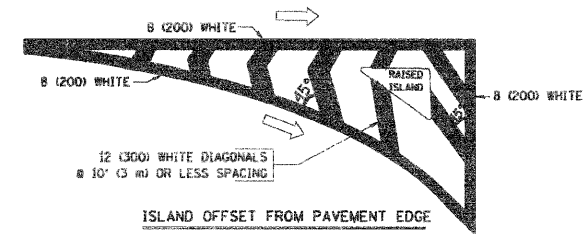
TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 * TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

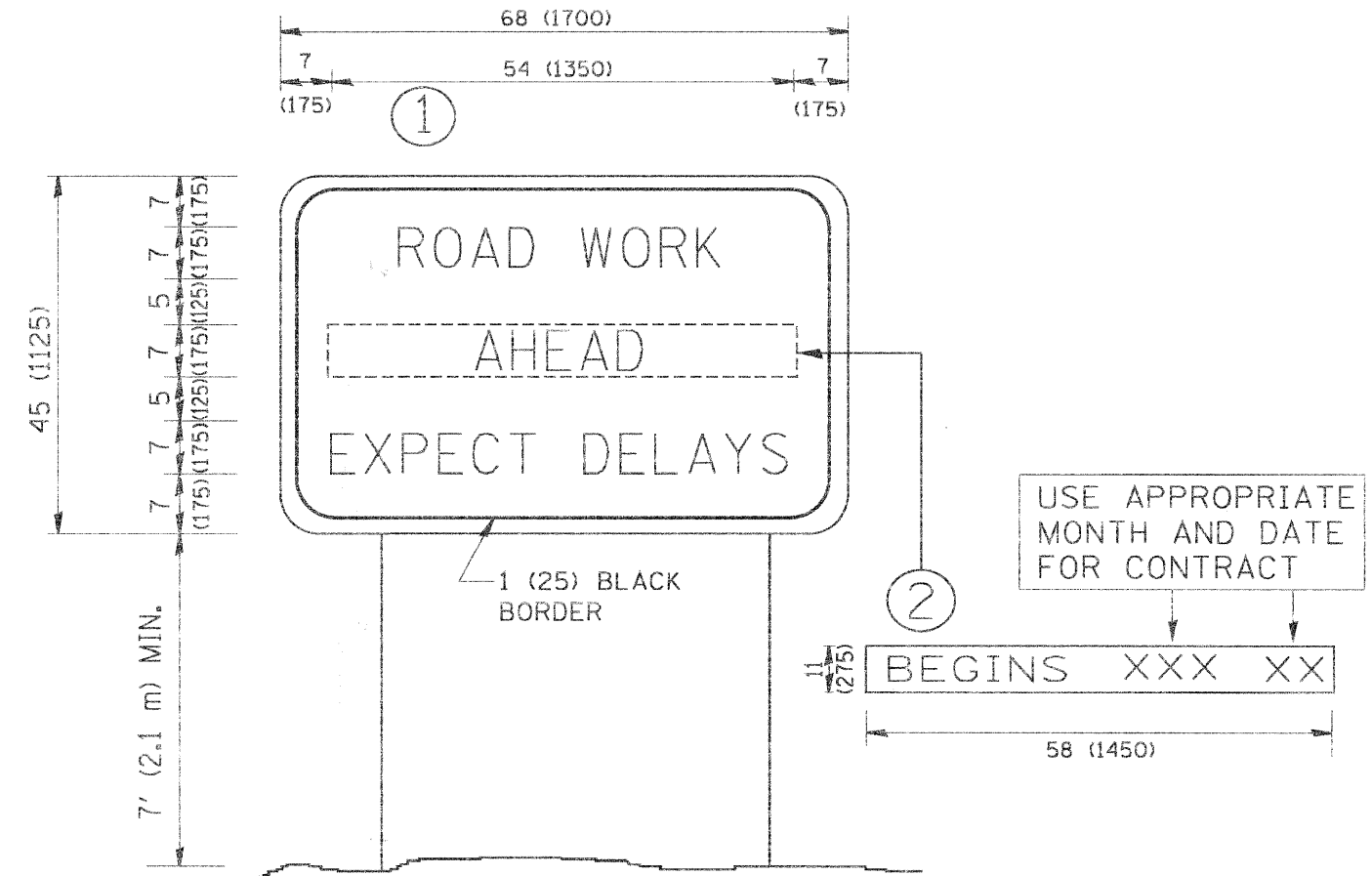


TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION	4 (100)	SOLID	YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE
NO PASSING ZONE LINES: FOR BOTH DIRECTIONS	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL))	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH) 20' (6 m) C-C (30MPH TO 45MPH) 30' (9 m) C-C (OVER 45MPH)
RAILROAD CROSSING	24 (600) TRANSVERSE LINES "RR" 15' (4.5 m) LINE FOR "X" LETTERS: 16 (400)	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: 16' x 16' SQ. FT. (14.9 m²) EACH 16' x 16' SQ. FT. (14.9 m²) EACH
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH) 75' (25 m) C-C (30 MPH TO 45MPH) 150' (45 m) C-C (OVER 45MPH)

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

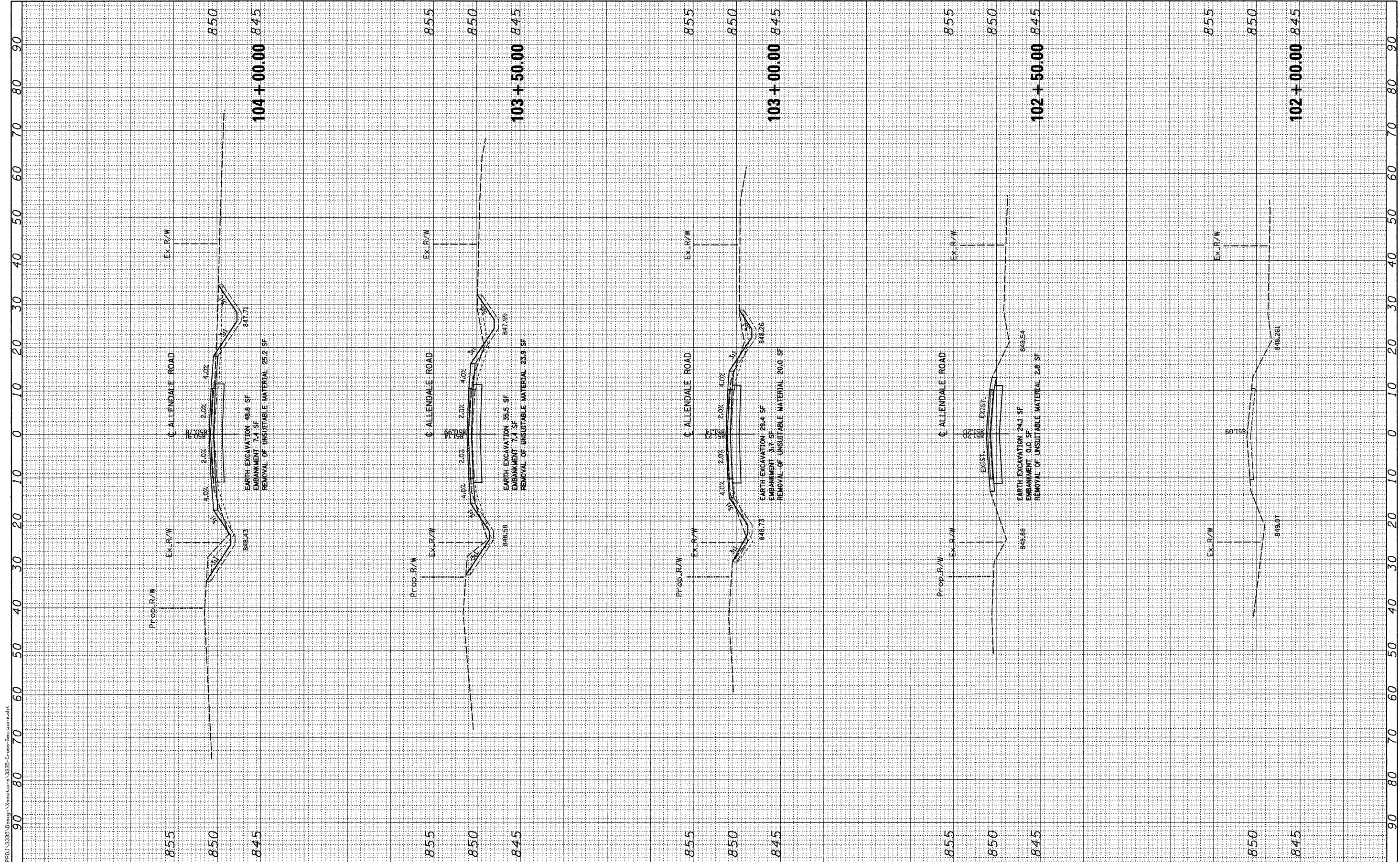


NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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	PLOT SCALE = 58.000 1/4 IN.	DRAWN -	REVISED - R. MIRS 12-11-97		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TC-22	CONTRACT NO.	63114	
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - T. RAMMACHER 02-02-99		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						
		DATE -	REVISED - C. JUCIUS 01-31-07								



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Ciorba Group, Inc.
 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60656
 Tel. 773.775.4009 Fax 773.775.4014

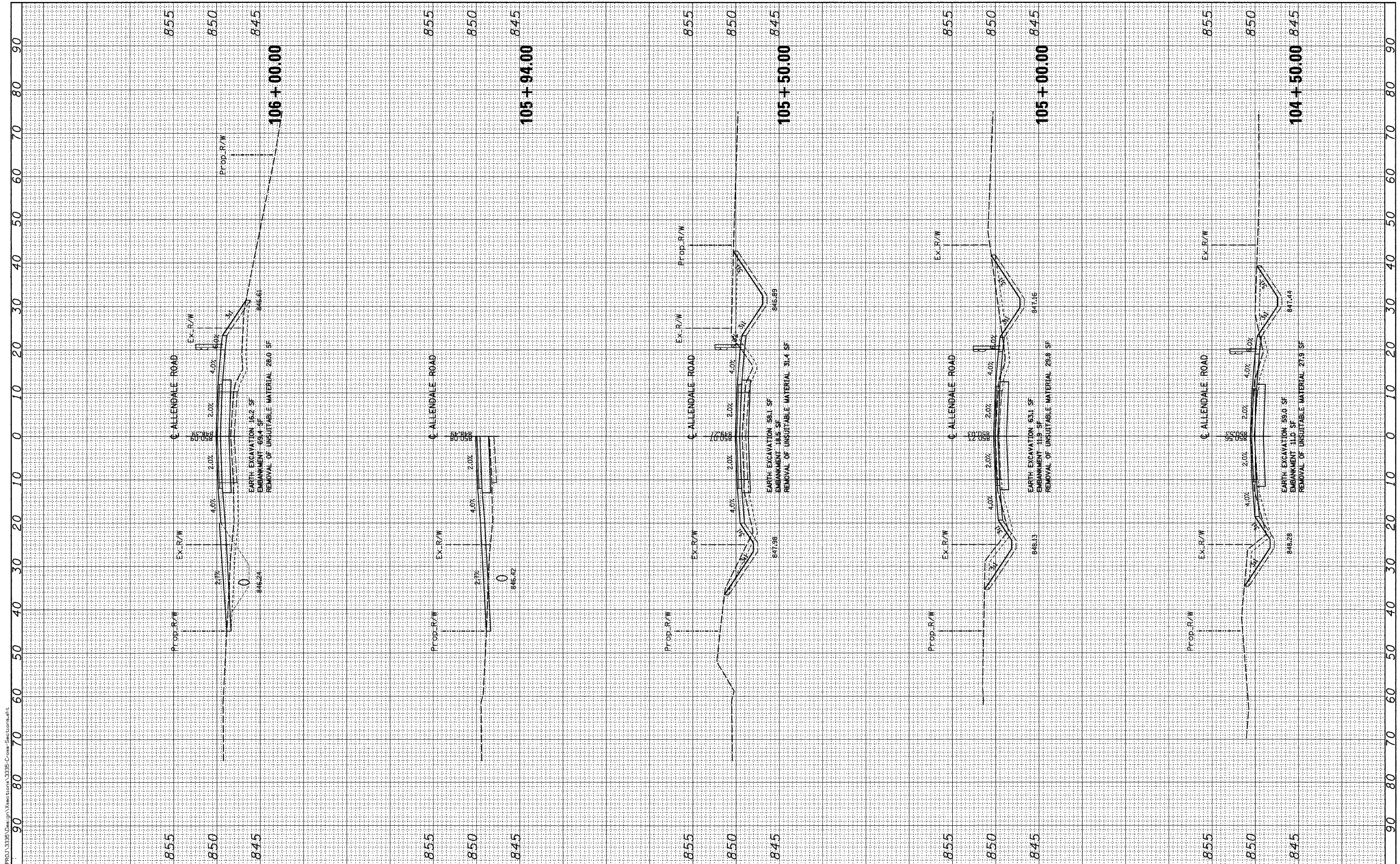
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	DATE - 10/31/2008	REVISED -

McHENRY COUNTY
DIVISION OF TRANSPORTATION

TR 73 / ALLENDALE ROAD
OVER VANDER KARR
CROSS SECTIONS

SCALE:	SHEET NO. OF SHEETS	STA. 102+00.00 TO STA. 104+00.00
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F.A. RTE. 73	SECTION 05-00310-00-BR	COUNTY McHENRY	TOTAL SHEETS 44	SHEET NO. 40
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT CONTRACT NO. 63114		



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	DATE - 10/31/2008	REVISED -

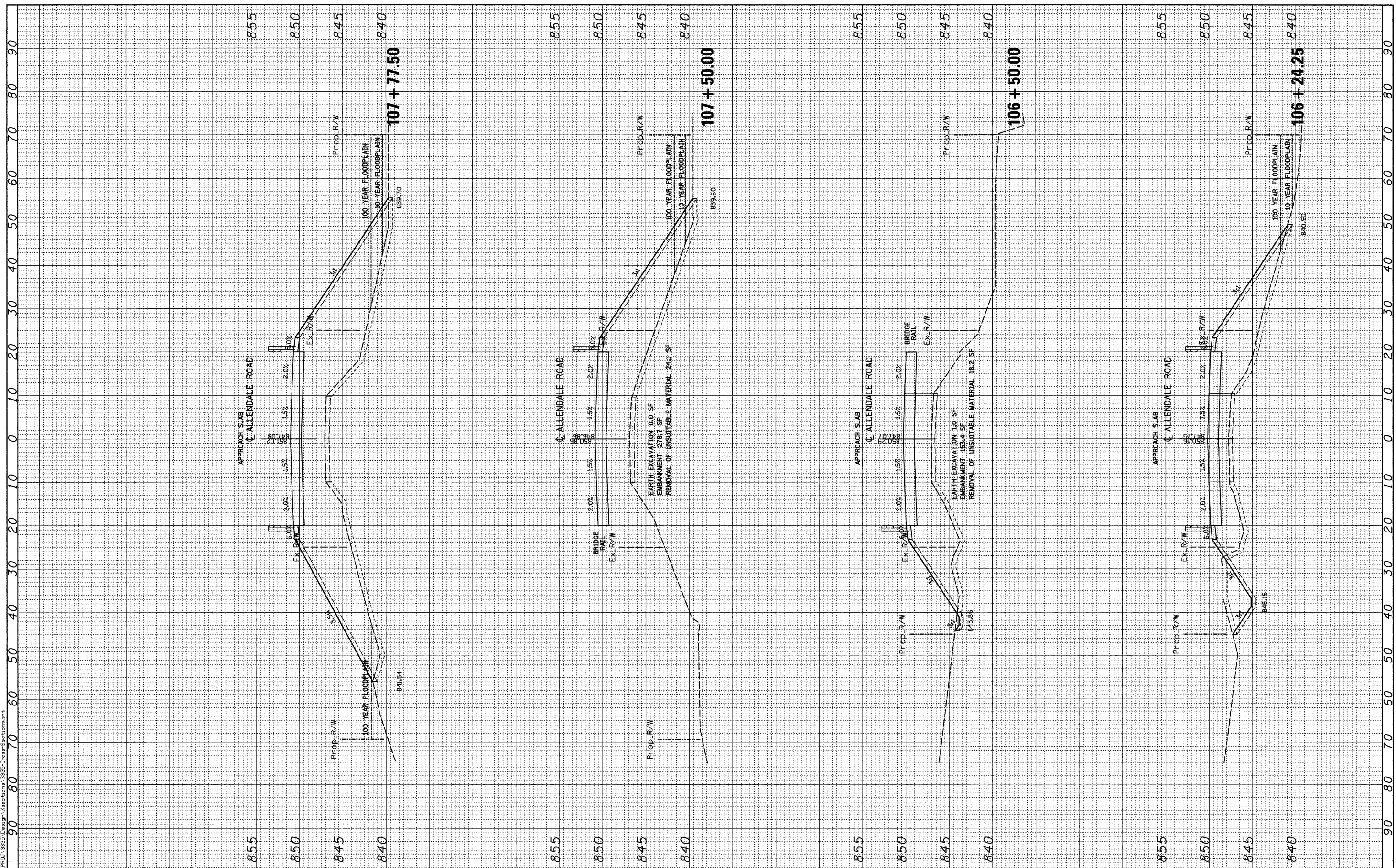
McHENRY COUNTY
DIVISION OF TRANSPORTATION

TR 73 ALLENDALE ROAD OVER VANDER KARR CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 105+80.00 TO STA. 106+00.00

F.A. RTE. 73	SECTION 05-00310-00-BR	COUNTY McHENRY	TOTAL SHEETS 44	SHEET NO. 41
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT CONTRACT NO. 63114		

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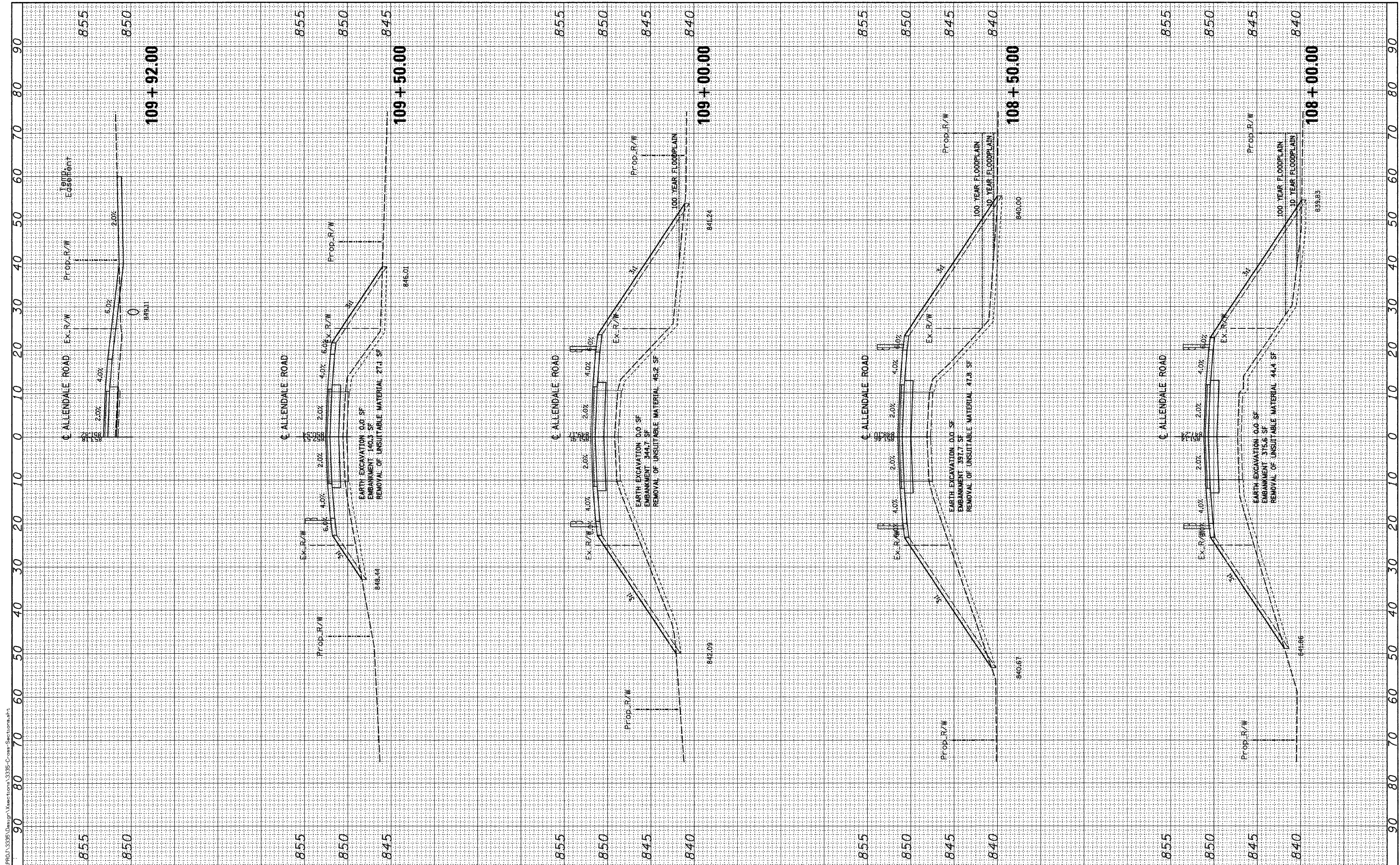
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	DATE - 10/31/2008	REVISED -

McHENRY COUNTY
DIVISION OF TRANSPORTATION

TR 73 / ALLEDALE ROAD
OVER VANDER KARR
CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 106+00.00 TO STA. 108+00.00

F.A. RTE. 73	SECTION 05-00310-00-BR	COUNTY McHENRY	TOTAL SHEETS 44	SHEET NO. 42
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 63114		



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 Tel. 773.775.4009 Fax 773.775.4014

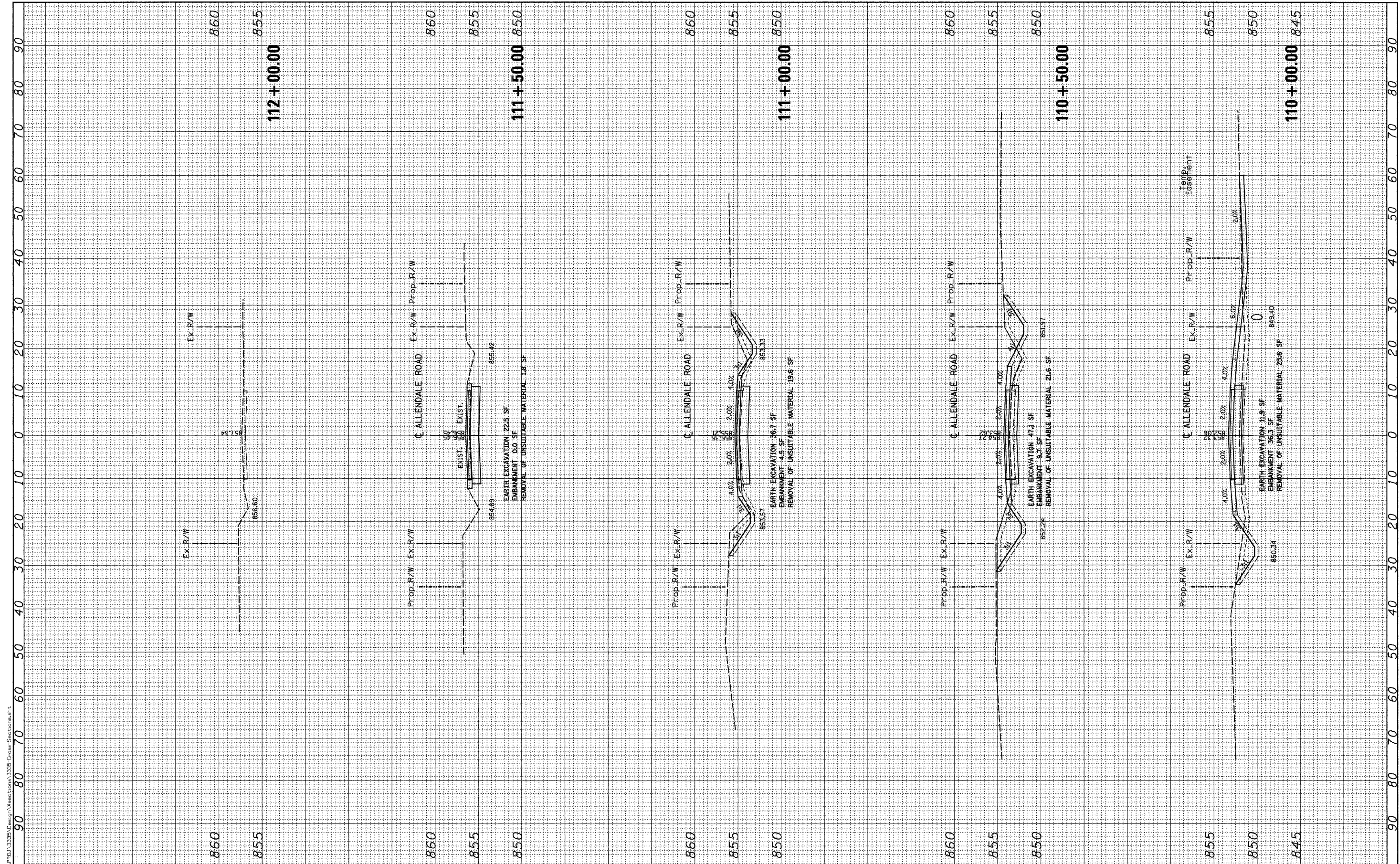
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	DATE - 10/31/2008	REVISED -

McHENRY COUNTY
DIVISION OF TRANSPORTATION

TR 73/ALLENDALE ROAD
OVER VANDER KARR
CROSS SECTIONS

SCALE: SHEET NO. OF SHEETS STA. 108+00.00 TO STA. 109+92.00

F.A. RTE. 73	SECTION 05-00310-00-BR	COUNTY McHENRY	TOTAL SHEETS 44	SHEET NO. 43
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 63114		



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USER NAME = ntumbv	DESIGNED - WBL	REVISED -
PLOT SCALE = 10.0000' / IN.	DRAWN - WBL	REVISED -
PLOT DATE = 2/6/2009	CHECKED - MJL	REVISED -
	DATE - 10/31/2008	REVISED -

McHENRY COUNTY
DIVISION OF TRANSPORTATION

TR 73/ALLEDALE ROAD OVER VANDER KARR CROSS SECTIONS

SCALE:	SHEET NO.	OF SHEETS	STA. 110+60.00 TO STA. 112+00.00
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
73	05-00310-00-BR	McHENRY	44	44
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63114	