

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0031	06-00323-00-BR	MCHENRY	53	1
FED. ROAD DIST. NO. 1		ILLINOIS	CONTRACT NO. 63218	

MCHENRY COUNTY DIVISION OF TRANSPORTATION: WALTER DITTRICH (815) 334-4980

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

THE PROJECT IS LOCATED
IN UNINCORPORATED
MCHENRY COUNTY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
F.A.S. ROUTE 0031
KISHWAUKEE VALLEY ROAD (A-33)
OVER NORTH BRANCH
OF KISHWAUKEE RIVER

D-91-359-06



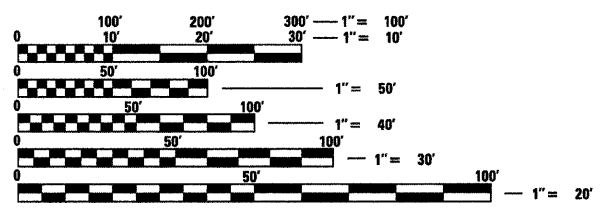
LOCATION OF SECTION INDICATED THUS: - [black rectangle] -

PROFESSIONAL ENGINEER
MILVAN J. HOLMAN
062-058721
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS
SIGNATURE *Nathan Holman*
DATE 05/21/09
EXPIRES 11/30/09
SHEET RANGE 1-19, 43-53

PROFESSIONAL ENGINEER
AMISH T. BHATT
081-006249
LICENSED STRUCTURAL ENGINEER
SIGNATURE *Amish T. Bhatt*
DATE 05/29/09
EXPIRES 11/30/2010
SHEET RANGE 20 thru 42

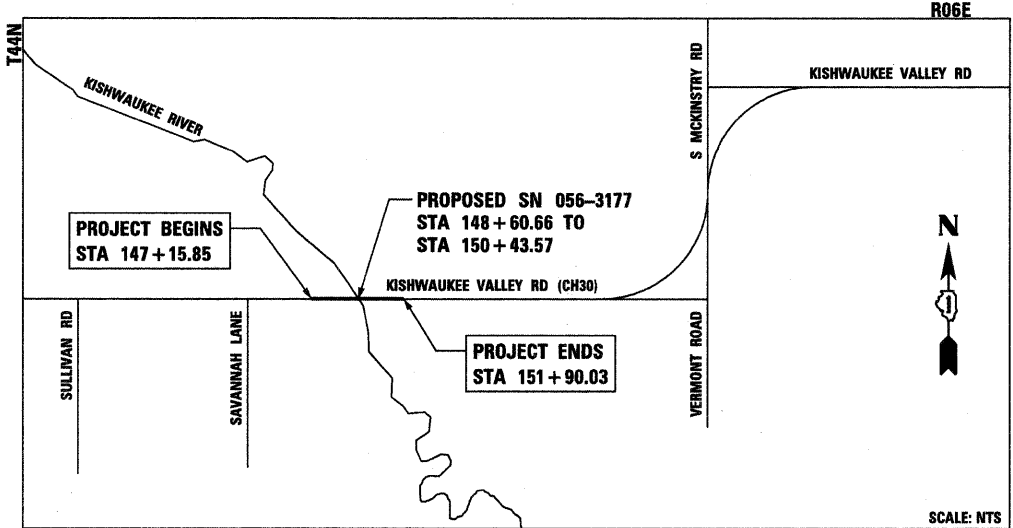
SECTION 06-00323-00-BR
PROJECT BHS-31 (108)
BRIDGE REPLACEMENT
SENECA TOWNSHIP
MCHENRY COUNTY
C-91-359-06

TRAFFIC DATA
DESIGN SPEED = 60 MPH
POSTED SPEED = 55 MPH
FUNCTIONAL CLASSIFICATION = RURAL MAJOR COLLECTOR
EXISTING ADT = 4730 (2007)
DESIGN ADT = 6000 (2030)



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

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811



THE PROJECT CONSISTS OF THE REPLACEMENT OF SN: 056-3014 WITH SN: 056-3177 OVER NORTH BRANCH OF KISHWAUKEE RIVER

AECOM

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED MAY 26 20 09
Joseph R. Kopalaki, Jr.
COUNTY ENGINEER

PASSED July 21 20 09
Christopher Holt
DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW JULY 21 20 09
Diana M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

PROJECT ENGINEER: NATHAN HOLMAN
PROJECT MANAGER: MATT REMPFER

GROSS LENGTH OF PROJECT = 474.18 FT (0.090 MILES)
NET LENGTH OF PROJECT = 474.18 FT (0.090 MILES)

CONTRACT NO. 63218

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

FEDERAL AID DESIGN ENGINEER: KEVIN STALLWORTH (847) 705-4169

INDEX OF SHEETS

SHEET DESCRIPTION

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IDOT HIGHWAY STANDARDS

STANDARD DESCRIPTION

- 000001-05 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 280001-04 TEMPORARY EROSION CONTROL SYSTEMS
- 420401-07 BRIDGE APPROACH PAVEMENT CONNECTOR
- 482011-03 HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
- 515001-03 NAME PLATE FOR BRIDGES
- 542301-02 PRECAST REINFORCED CONCRETE FLARED END SECTION
- 602011-01 CATCH BASIN TYPE C
- 602401-02 MANHOLE TYPE A
- 602601-02 PRECAST REINFORCED CONCRETE FLAT SLAB TOP
- 602701-02 MANHOLE STEPS
- 604071-04 FRAME AND GRATE TYPE 20
- 606001-04 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 631031-07 TRAFFIC BARRIER TERMINAL, TYPE 6
- 635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT
- 635011-02 REFLECTOR MARKER AND MOUNTING DETAILS
- 642001-01 SHOULDER RUMBLE STRIPS
- 701901-01 TRAFFIC CONTROL DEVICES

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AECOM

USER NAME = holmann
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 PLOT DATE = 5/22/2009

DESIGNED - NJH
 DRAWN - NJH
 CHECKED - RMG
 DATE - MARCH 20, 2009

REVISED -
 REVISED -
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**MCHENRY COUNTY
 DIVISION OF TRANSPORTATION**

INDEX OF SHEETS & IDOT HIGHWAY STANDARDS

SCALE: NTS SHEET NO. 1 OF 1 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0031	06-00323-00-BR	MCHENRY	53	2
CONTRACT NO. 63218				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

GENERAL NOTES

ROADWAY GENERAL NOTES

1. UTILITY LOCATIONS SHOWN ON THESE PLANS MAY NOT BE CORRECT OR COMPLETE. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE RESPECTIVE UTILITIES. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION) AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES (48 HOUR NOTIFICATION IS REQUIRED).
2. 36 FOOT TRANSITION LENGTHS SHALL BE USED TO TRANSITION FROM A 2% SHOULDER CROSS SLOPE AT THE BRIDGE APPROACH SLAB TO A STANDARD 4% SHOULDER CROSS SLOPE. BASED UPON AASHTO MAX RELATIVE SLOPE FOR A DESIGN SPEED = 60MPH.
3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON PUBLIC PROPERTY WITHOUT WRITTEN PERMISSION OF THE MCHENRY COUNTY DIVISION OF TRANSPORTATION.
4. THE CONTRACTOR SHALL TAKE ALL NECESSARY SAFETY PRECAUTIONS TO PROTECT AND PROVIDE ACCESS TO ABUTTING PROPERTY AND UTILITIES.
5. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS. THE ENGINEER OR AN AUTHORIZED SURVEYOR AGENT WILL WITNESS OR OTHERWISE REFERENCE AND RESET MONUMENTS AS NECESSARY. ALL PROPERTY CORNERS EXCEPT THOSE WITHIN AREAS WHERE THE SCHEDULE, IF PROVIDED, SHOWS PLACEMENT OF R.O.W. MARKERS SHALL REMAIN UNDISTURBED.
6. ALL ELEVATIONS SHOWN ARE BASED ON THE NAVD 88.
7. THE QUANTITY FOR BITUMINOUS MATERIALS (PRIME COAT) WAS DETERMINED USING AN APPLICATION RATE OF 0.10 GAL/SQ YD.
8. THE QUANTITY FOR AGGREGATE (PRIME COAT) WAS DETERMINED USING AN APPLICATION RATE OF 4 LB/SQ YD.
9. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE COURSES IS 112 LB / SQ YD / IN.
10. WORK WILL TAKE PLACE DURING THE WINTER CONSTRUCTION SEASON. APPROPRIATE TECHNIQUES SHALL BE UTILIZED TO PROTECT FRESHLY POURED CONCRETE FROM THE WINTER WEATHER CONDITIONS.
11. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED AND RETURNED TO THE MCHENRY COUNTY DIVISION OF TRANSPORTATION. ANY DAMAGE DONE TO THE SIGNAL EQUIPMENT BY THE CONTRACTOR DURING THE REMOVAL AND/OR TRANSPORTATION OF THE EQUIPMENT SHALL BE FIXED OR EQUIPMENT REPLACED BY THE CONTRACTOR AT HIS/HER OWN EXPENSE. ALL WORK ASSOCIATED WITH THE REMOVAL AND TRANSPORTATION OF EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE PAID FOR AS "REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT."
12. REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS SHALL BE IN LOCATIONS WHERE EXCAVATION OF EARTH TAKES PLACE WITHIN THE WETLAND BOUNDARIES.
13. THE QUANTITY FOR AGGREGATE (EROSION CONTROL) WAS DETERMINED USING A RATE OF 1.75 TON / CU YD.
14. FENCE REMOVAL SHALL BE CONSIDERED AS PART OF CLEARING.
15. REMOVAL OF EXISTING TEMPORARY BARRIERS, ATTENUATORS, DELINEATORS, SIGNS AND ALL ASSOCIATED EQUIPMENT USED FOR THE TRAFFIC CONTROL ACROSS THE KISHWAUKEE RIVER SHALL BE PERFORMED BY THE MCHENRY COUNTY DIVISION OF TRANSPORTATION (MCDOT). THE REMOVAL IS INCLUDED IN THE COST OF THE CONTRACT. CONTRACTOR SHALL CALL THE COUNTY TWO WEEKS PRIOR TO THE START OF CONSTRUCTION TO COORDINATE REMOVAL OF THE ITEMS WITH MCDOT.

TRAFFIC CONTROL DETOUR GENERAL NOTES

1. THE CONTRACTOR MUST COORDINATE THE ROAD CLOSURE WITH THE ENGINEER.
2. TRAFFIC CONTROL AND ALL TRAFFIC CONTROL DEVICES AND SIGNAGE REQUIRED IN ACCORDANCE WITH APPLICABLE IDOT DISTRICT 1 STANDARDS, IDOT HIGHWAY STANDARDS, AND THE CONTRACT DRAWINGS IS INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR AND WILL NOT BE PAID FOR SEPARATELY.
3. SIGNING AND BARRICADE PLACEMENT SHALL BE IN ACCORDANCE WITH THE INCLUDED IDOT STANDARD DRAWINGS AND IDOT DISTRICT 1 STANDARD DETAILS.
4. ANY EXISTING SIGNS DENOTED WITHIN THE PLAN SET THAT DO NOT APPLY TO THE DETOUR SHALL BE REMOVED OR COVERED, AS DIRECTED BY THE ENGINEER. THE COVERING OR REMOVAL OF GROUND MOUNTED SIGNS SHALL BE NON-DESTRUCTIVE IN NATURE AND WILL NOT BE MEASURED FOR PAYMENT BUT IS CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE FOR TRAFFIC CONTROL AND PROTECTION FOR DETOUR ROUTE.
5. ADVANCED SIGNING PER IDOT DISTRICT 1 DETAIL TC-22 SHALL BE USED IN ADVANCE OF ROAD WORK IN BOTH EASTBOUND AND WESTBOUND DIRECTIONS OF KISHWAUKEE VALLEY ROAD. THESE SIGNS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR TEMPORARY INFORMATION SIGNING.

LANDSCAPING GENERAL NOTES

1. THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS WHICH WILL NOT BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
2. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL FOR WHICH THE CONTRACT DOES NOT PROVIDE REMOVAL. THE PROTECTION OF EXISTING PLANT MATERIAL AND THE REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 201 OF THE STANDARD SPECIFICATIONS.
3. THE SEEDING DATES FOR BARE EARTH SEEDING OF MIXTURE CLASSES 4A AND 4B SHALL BE FROM MAY 15 TO JUNE 30 AND FROM OCTOBER 15 TO DECEMBER 1. ALL SEEDING NOT SOWN ACCORDING TO THE SPECIFIED SEASONAL DATE SHALL REQUIRE PRIOR APPROVAL FROM THE ENGINEER. FAILURE TO SECURE SUCH APPROVAL SHALL RESULT IN THE REJECTION OF THE SEEDING AND REPLACEMENT BY THE CONTRACTOR AS HIS/HER EXPENSE.
4. LAYOUT OF LANDSCAPED AREAS WILL REQUIRE APPROVAL OF THE ENGINEER PRIOR TO COMPOST PLACEMENT AND SEEDING.
5. PLANTING OF TREES SHALL BE DONE AT A LOCATION AS DETERMINED BY THE ENGINEER.
6. PLANTING OF EVERGREEN, PICEA ABIES (NORWAY SPRUCE) TREES SHALL BE PLANTED ONLY DURING THE SPRING PLANTING SEASON, AS SPECIFIED IN ARTICLE 253.03.

EROSION CONTROL GENERAL NOTES

1. EROSION CONTROL ITEMS ARE CONSIDERED TO BE HIGH PRIORITY ITEMS ON THIS CONTRACT. THE CONTRACTOR WILL IMPLEMENT ALL PROVISIONS OF THE SPECIFICATION NECESSARY TO ASSURE THAT EROSION CONTROL ITEMS ARE CONSTRUCTED AND MAINTAINED IN A TIMELY WAY. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITIES, WHICH MAY POTENTIALLY CREATE CONDITIONS THAT ARE LIKELY TO ERODE.
2. THE EROSION CONTROL MEASURES SHOWN ARE BUT A GRAPHICAL REPRESENTATION OF SUGGESTED MEASURES. DEVIATIONS FROM THIS PLAN ARE TO BE EXPECTED PENDING A JOB SITE INSPECTION BETWEEN THE CONTRACTOR AND THE COUNTY.
3. THE CONTRACTOR WILL BE REQUIRED TO IMPLEMENT AND MAINTAIN SEDIMENT CONTROL MEASURES PRIOR TO DISTURBING EXISTING GROUND.
4. THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS WHICH WILL NOT BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE.
5. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL THAT THE CONTRACT DOES NOT PROVIDE REMOVAL. THE PROTECTION OF EXISTING PLANT MATERIAL, AND THE REPAIR OR REPLACEMENT OF THE EXISTING PLANT MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 201 OF THE STANDARD SPECIFICATIONS.
6. NO INSTREAM WORK IS ALLOWED BETWEEN APRIL 27 AND JULY 25 TO AVOID SPAWNING PERIOD FOR IOWA DARTER.
7. QUALIFIED PERSONNEL SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER OR EQUIVALENT SNOWFALL.
8. IN-STREAM CONSTRUCTION OPERATIONS SHALL COMMENCE FROM A WORKING PLATFORM LOCATED ON THE EXISTING ROADWAY.
9. WETLANDS ARE LOCATED WITHIN THE PROJECT LIMITS. FOR WETLAND AREAS NEAR THE CONSTRUCTION LIMITS, THE CONTRACTOR SHALL TAKE CARE TO ENSURE THAT NO DAMAGE IS DONE TO THE WETLANDS. ANY DAMAGE DONE TO THE WETLANDS BY THE CONTRACTOR SHALL BE REPAIRED TO THE ORIGINAL OR BEYOND THE ORIGINAL WETLAND CONDITION AT THE CONTRACTOR'S OWN EXPENSE.
10. CONTRACTOR SHALL REFER TO THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) FOR EROSION CONTROL REQUIREMENTS.
11. PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED BY THE PERMIT HOLDER FOR REVIEW BY THE MCHENRY COUNTY SOIL & WATER CONSERVATION DISTRICT (MCSWCD).
12. EROSION CONTROL METHODS INVOLVED WITH EXCAVATION IN THE WATERWAY AT THE EXISTING AND PROPOSED PIERS SHALL BE INCLUDED IN THE COST OF "UNDERWATER STRUCTURE EXCAVATION PROTECTION" AND SHALL BE APPROVED BY THE ENGINEER.
13. IF POSSIBLE, THE CONTRACTOR SHALL LIMIT THE EMBANKMENT WORK UNTIL AFTER THE WINTER SEASON IN ORDER TO ALLOW APPROPRIATE GERMINATION OF THE TEMPORARY SEEDING.
14. TEMPORARY EROSION CONTROL SEEDING WILL BE UTILIZED ON ALL SLOPES AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.
15. CHANNEL EXCAVATION OPERATIONS SHALL BE DONE WHEN WATER LEVEL IS AT OR BELOW NORMAL SURFACE ELEVATION (837.5'), OR AS APPROVED BY THE ENGINEER.

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	SCALE: NTS SHEET NO. 1 OF 1 SHEETS	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

SUMMARY OF QUANTITIES

SI	CODE NO.	ITEM	UNIT	QUANTITY	80% FED / 20% LOCAL	
					RURAL ROADWAY	BRIDGE STR NO. 056-3177
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	62	62	
	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	36	36	
	20200100	EARTH EXCAVATION	CU YD	500	500	
	20200300	EARTH EXCAVATION FOR EROSION CONTROL	CU YD	12	12	
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	161	161	
	20300100	CHANNEL EXCAVATION	CU YD	47	47	
	20400800	FURNISHED EXCAVATION	CU YD	504	504	
	20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	135.8		135.8
	20800150	TRENCH BACKFILL	CU YD	40.5	40.5	
	21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	237	237	
*	21101805	COMPOST FURNISH AND PLACE, 2"	SQ YD	845	845	
*	25000312	SEEDING, CLASS 4A	ACRE	0.11	0.11	
*	25000314	SEEDING, CLASS 4B	ACRE	0.13	0.13	
*	25100630	EROSION CONTROL BLANKET	SQ YD	843	843	
*	25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	845	845	
*	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	589	589	
	28000310	AGGREGATE DITCH CHECKS	EACH	1	1	
	28000500	INLET AND PIPE PROTECTION	EACH	8	8	
	28001000	AGGREGATE (EROSION CONTROL)	TON	1.1	1.1	
	28100105	STONE RIPRAP, CLASS A3	SQ YD	13	13	
	28100107	STONE RIPRAP, CLASS A4	SQ YD	320		320
	28200200	FILTER FABRIC	SQ YD	320		320
	31101200	SUB-BASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	237	237	
	40600100	BITUMINOUS MATERIALS (PRIME COAT)	GAL	252	252	
	40600300	AGGREGATE (PRIME COAT)	TON	0.8	0.8	
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	30	30	
	40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	65	65	
	40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D" N70	TON	83	83	
	42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	132	132	
	44000100	PAVEMENT REMOVAL	SQ YD	379	379	
	44000152	HOT-MIX ASPHALT SURFACE REMOVAL, 3/4"	SQ YD	403	403	
	44000153	HOT-MIX ASPHALT SURFACE REMOVAL, 1"	SQ YD	398	398	
	48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	240	240	
	48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	237	237	
	50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1

* DENOTES SPECIALTY ITEMS

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DESIGNED - NJH
 DRAWN - NJH
 CHECKED - RMG
 DATE - MARCH 20, 2009

REVISED -
 REVISED -
 REVISED -
 REVISED -

**MCHENRY COUNTY
 DIVISION OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NTS SHEET NO. 1 OF 3 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0031	06-00323-00-BR	MCHENRY	53	4
CONTRACT NO. 63218				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES CONT.

				80% FED / 20% LOCAL	
				RURAL ROADWAY	BRIDGE STR NO. 056-3177
50200100	STRUCTURE EXCAVATION	CU YD	271.4		271.4
50300225	CONCRETE STRUCTURES	CU YD	103.3		103.3
50300255	CONCRETE SUPERSTRUCTURE	CU YD	334.8		334.8
50300280	BRIDGE DECK GROOVING	SQ YD	772		772
50300280	CONCRETE ENCASMENT	CU YD	13.1		13.1
50300300	PROTECTIVE COAT	SQ YD	950		950
50400805	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE I-BEAMS, 36 IN.	FOOT	843		843
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	91,120		91,120
50800515	BAR SPLICERS	EACH	84		84
51201800	FURNISHING STEEL PILES HP14X73	FOOT	756		756
51201900	FURNISHING STEEL PILES HP14X89	FOOT	619		619
51202305	DRIVING PILES	FOOT	1,281		1,281
51203800	TEST PILE STEEL HP14X73	EACH	2		2
51203900	TEST PILE STEEL HP14X89	EACH	1		1
51204650	PILE SHOES	EACH	24		24
51500100	NAME PLATES	EACH	1		1
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	4	4	
55019500	STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 12"	FOOT	460	460	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	85		85
60109580	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	120		120
60208210	CATCH BASINS, TYPE C, TYPE 20 FRAME AND GRATE	EACH	4	4	
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	4	4	
60600605	CONCRETE CURB, TYPE B	FOOT	20	20	
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	102	102	
64200105	SHOULDER RUMBLE STRIP	FOOT	423	423	
66500105	WOVEN WIRE FENCE, 4'	FOOT	270	270	
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	9	9	
67100100	MOBILIZATION	L SUM	1	1	
70102550	TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR	EACH	1	1	
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	18	18	
72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	4	4	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	841	841	
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	412	412	

* DENOTES SPECIALTY ITEMS

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USER NAME = pmsarno
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 PLOT DATE = 5/28/2009

DESIGNED - NJH
 DRAWN - NJH
 CHECKED - RMC
 DATE - MARCH 20, 2009

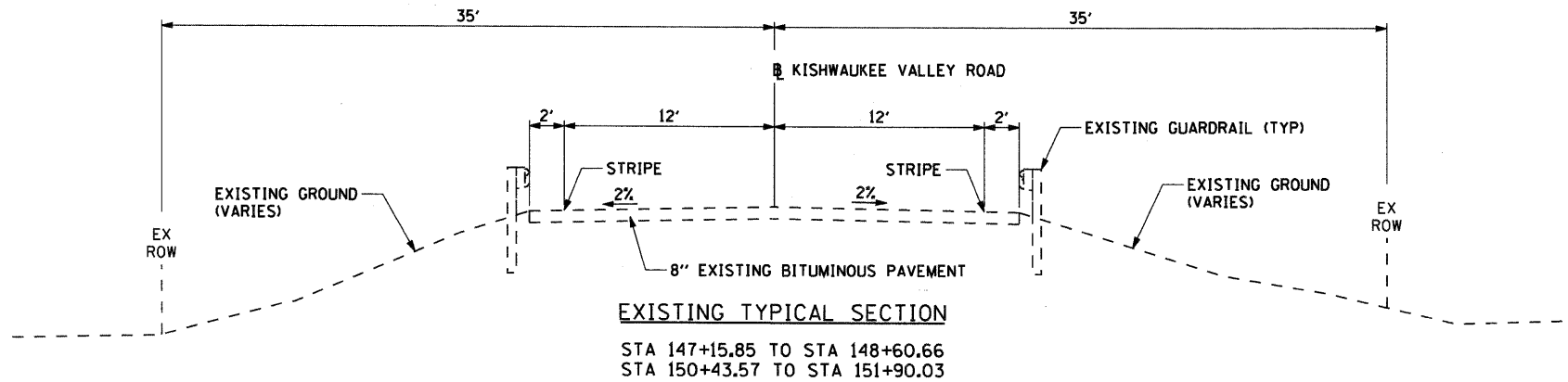
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**MCHENRY COUNTY
 DIVISION OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: NTS SHEET NO. 2 OF 3 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0031	06-00323-00-BR	MCHENRY	53	5
CONTRACT NO. 63218				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



PROPOSED LEGEND:

- ① HOT-MIX ASPHALT SURFACE COURSE - 1 3/4"
- ② HOT-MIX ASPHALT BINDER COURSE - 2 3/4"
- ③ HOT-MIX ASPHALT SHOULDERS, 8"
- ④ HOT-MIX ASPHALT SHOULDERS, 6"
- ⑤ SHOULDER RUMBLE STRIP
- ⑥ SUB-BASE GRANULAR MATERIAL, TYPE B 4"
- ⑦ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- ⑧ TRAFFIC BARRIER TERMINAL
- ⑨ COMPOST FURNISH AND PLACE, 2" / SEEDING / HEAVY DUTY EROSION CONTROL BLANKET
- ⑩ FILL
- ⑪ HOT-MIX ASPHALT SURFACE REMOVAL- 3/4" (SEE DETAIL B')
- ⑫ HOT-MIX ASPHALT SURFACE REMOVAL- 1" (SEE DETAIL B')

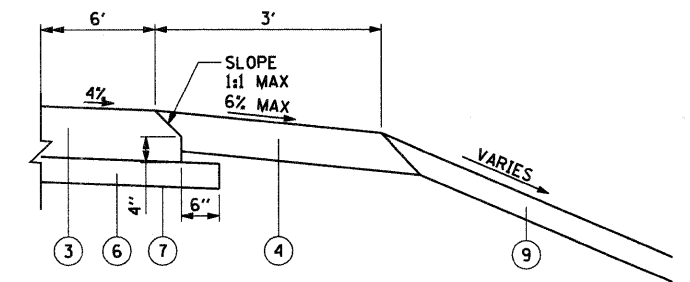
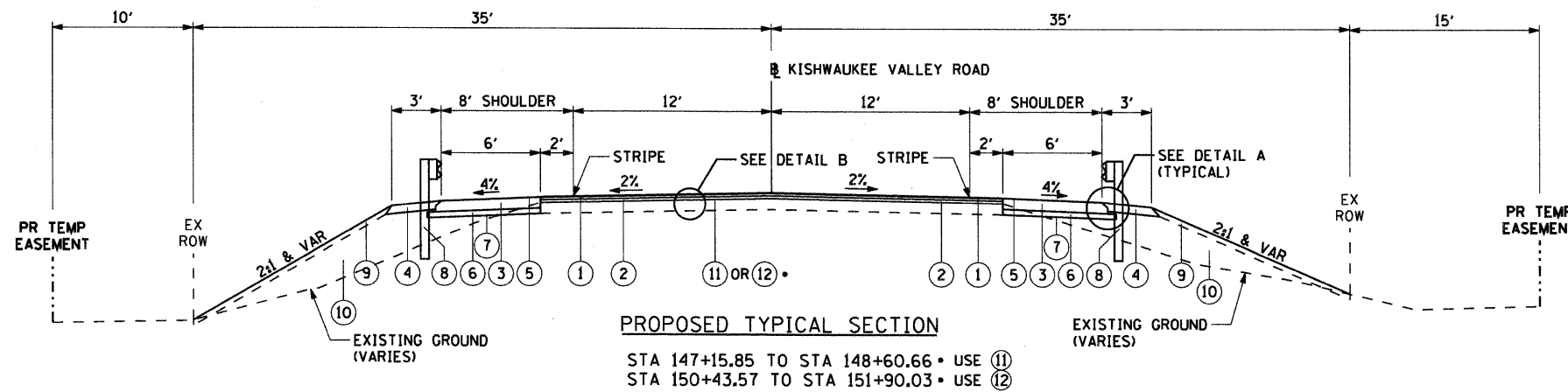
NOTES:

1. THE SHOULDER RUMBLE STRIPS SHALL BE PLACED IN ALL HMA SHOULDERS, ACCORDING TO IDOT STANDARD 642001, WHERE THE HMA SHOULDER WIDTH IS GREATER THAN 3 FT. SEE ROADWAY PLANS FOR EXACT LOCATIONS.
2. TYPICAL SECTIONS NEED TO BE VERIFIED WITH THE ROADWAY PLANS AS THEY ARE A REPRESENTATION OF THE PLANS. THEY DO NOT SHOW ALL CONFIGURATIONS, JUST THE MOST PREDOMINANT.
3. SEE THE PAVEMENT MARKING AND LANDSCAPING PLANS FOR THE LOCATION AND CLASSIFICATION OF SEEDING TO BE USED.

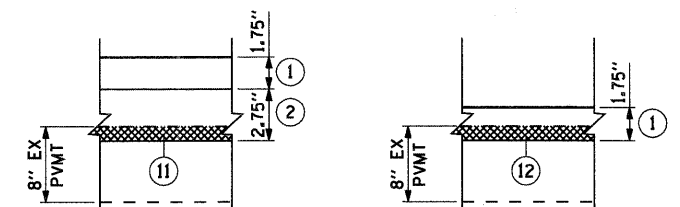
HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AC TYPE	AIR VOIDS	RAP %
HOT-MIX ASPHALT SURFACE COURSE, MIX "D" N70 (IL 9.5mm)	PG 64-22	4% @ 70 Gyr	10/15
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	PG 64-22*	4% @ 70 Gyr	15/25
HOT-MIX ASPHALT SHOULDERS, 6"	PG 64-22*	2% @ 30 Gyr	50
HOT-MIX ASPHALT SHOULDERS, 8"	PG 64-22*	2% @ 30 Gyr	50

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SOYD/IN
 • WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22.



DETAIL A



DETAIL B

BRIDGE OMISSION: STA 148+60.66 TO STA 150+43.57 (SEE STRUCTURAL SHEETS)

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 PLOT DATE = 5/22/2009

DESIGNED - NJH
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 DATE - MARCH 20, 2009

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**MCHENRY COUNTY
 DIVISION OF TRANSPORTATION**

TYPICAL SECTIONS

SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. 147+15.85 TO STA. 151+90.03

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0031	06-00323-00-BR	MCHENRY	53	7
CONTRACT NO. 63218				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

ROADWAY REMOVAL SCHEDULE

SHEET	STATION	TO	STATION	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	TREE REMOVAL (OVER 15 UNITS DIAMETER)	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	PAVEMENT REMOVAL	HOT-MIX ASPHALT SURFACE REMOVAL, 3/4"	HOT-MIX ASPHALT SURFACE REMOVAL, 1"	GUARDRAIL REMOVAL	REMOVE SIGN PANEL ASSEMBLY-TYPE A
				UNIT	UNIT	SQ YD	SQ YD	SQ YD	SQ YD	FOOT	EACH
PLNPRF-1	147+15.85	TO	151+00.00	42	36	15	379	403	126	102	4
PLNPRF-2	151+00.00	TO	151+90.03	20	-	15	-	-	272	-	-
TOTALS				62	36	30	379	403	398	102	4

LANDSCAPING SCHEDULE

SHEET	STATION	TO	STATION	COMPOST FURNISH AND PLACE, 2"	SEEDING CLASS 4A	SEEDING CLASS 4B	HEAVY DUTY EROSION CONTROL BLANKET	EVERGREEN, PICEA ABIES (NORWAY SPRUCE), 2' HEIGHT, BALLED AND BURLAPPED
				SQ YD	ACRE	ACRE	SQ YD	EACH
LNDSCP-1	147+18.85	TO	151+00.00	688	0.08	0.11	688	-
LNDSCP-2	151+00.00	TO	151+90.03	157	0.03	0.02	157	8
TOTALS				845	0.11	0.13	845	8

ROADWAY ITEMS SCHEDULE

SHEET	STATION	TO	STATION	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	STONE RIPRAP, CLASS A3	SUB-BASE GRANULAR MATERIAL, TYPE B 4"	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	HOT-MIX ASPHALT SURFACE COURSE, MIX "D" N70	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	HOT-MIX ASPHALT SHOULDERS, 6"	HOT-MIX ASPHALT SHOULDERS, 8"	CONCRETE CURB, TYPE B	SHOULDER RUMBLE STRIP	WOVEN WIRE FENCE, 4'
				SQ YD	SQ YD	SQ YD	GALLON	TON	TON	TON	SQ YD	SQ YD	SQ YD	FOOT	FOOT	FOOT
PLNPRF-1	147+15.85	TO	151+00.00	174	7	174	188	0.6	65.0	54.0	132	170	174	20	326	250
PLNPRF-2	151+00.00	TO	151+90.03	63	6	63	64	0.2	-	29.0	-	70	63	-	97	20
TOTALS				237	13	237	252	0.8	65.0	83.0	132	240	237	20	423	270

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE NO.	STATION	ALIGNMENT	OFFSET (FT)	STRUCTURE TYPE	FRAME AND GRATE	RIM ELEV. (FT)	INVERT ELEV. UP	INVERT ELEV. DOWN	PAY ITEM NO.
N-01	147+50.00	KISHWAUKEE	19' LT	MANHOLE, TYPE A 4'	TYPE 1 F, CL LID	847.61	844.65	844.57	60218400
S-01	147+50.00	KISHWAUKEE	18' RT	MANHOLE, TYPE A 4'	TYPE 1 F, CL LID	847.62	844.62	844.54	60218400
N-02	148+54.00	KISHWAUKEE	19' LT	CATCH BASIN, TYPE C	TYPE 20 F&G	847.75	845.17	844.65	60208210
S-02	148+63.00	KISHWAUKEE	19' RT	CATCH BASIN, TYPE C	TYPE 20 F&G	847.76	845.18	844.62	60208210
N-03	150+41.00	KISHWAUKEE	19' LT	CATCH BASIN, TYPE C	TYPE 20 F&G	847.76	845.18	844.64	60208210
S-03	150+50.00	KISHWAUKEE	19' RT	CATCH BASIN, TYPE C	TYPE 20 F&G	847.69	845.11	844.61	60208210
N-04	151+50.00	KISHWAUKEE	19' LT	MANHOLE, TYPE A 4'	TYPE 1 F, CL LID	847.54	844.64	844.56	60218400
S-04	151+50.00	KISHWAUKEE	19' RT	MANHOLE, TYPE A 4'	TYPE 1 F, CL LID	847.58	844.61	844.53	60218400

DRAINAGE PIPE SCHEDULE

PIPE NO.	PIPE PAY ITEM NAME/NUMBER	FROM STRUCTURE	FROM STATION	TO STRUCTURE	TO STATION	TYPE	DIAMETER (INCH)	LENGTH (FT)	TRENCH BACKFILL (CU YD)	PAY ITEM NO.
N-01	SS, TYPE 1, RCP, CL A 4, 12" / 55019500	N-01	147+50.00	FES-N1	147+50.00	1	12	8	0.5	20800150
S-01	SS, TYPE 1, RCP, CL A 4, 12" / 55019500	S-01	147+50.00	FES-S1	147+50.00	1	12	8	0.5	20800150
N-02	SS, TYPE 1, RCP, CL A 4, 12" / 55019500	N-02	148+54.00	N-01	147+50.00	1	12	104	11.2	20800150
S-02	SS, TYPE 1, RCP, CL A 4, 12" / 55019500	S-02	148+63.00	S-01	147+50.00	1	12	113	7.3	20800150
N-03	SS, TYPE 1, RCP, CL A 4, 12" / 55019500	N-03	150+41.00	N-04	151+50.00	1	12	109	12.6	20800150
S-03	SS, TYPE 1, RCP, CL A 4, 12" / 55019500	S-03	150+50.00	S-04	151+50.00	1	12	100	7.4	20800150
N-04	SS, TYPE 1, RCP, CL A 4, 12" / 55019500	N-04	151+50.00	FES-N2	151+50.00	1	12	9	0.5	20800150
S-04	SS, TYPE 1, RCP, CL A 4, 12" / 55019500	S-04	151+50.00	FES-S2	151+50.00	1	12	9	0.5	20800150
TOTALS								460	40.5	

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	SCALE: NTS		SHEET NO. 1 OF 2 SHEETS		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

EROSION CONTROL SCHEDULE

SHEET	STATION	TO	STATION	EARTH EXCAVATION FOR EROSION CONTROL	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	AGGREGATE DITCH CHECKS	INLET AND PIPE PROTECTION	AGGREGATE (EROSION CONTROL)	TURBIDITY CURTAIN	PERIMETER EROSION BARRIER WITH WIRE SUPPORT
				CU YD	SQ YD	POUND	EACH	EACH	TON	FOOT	FOOT
				20200300	25100630	28000250	28000310	28000500	28001000	XX003967	XX006280
EROS-1	147+15.85	TO	151+00.00	12	687	465	1	6	1.1	298	659
EROS-2	151+00.00	TO	151+90.03	-	156	124	-	2	-	-	209
TOTALS				12	843	589	1	8	1.1	298	868

PAVEMENT MARKING SCHEDULE

SHEET	STATION	TO	STATION	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"
				FOOT	FOOT
				78000200	78008210
PMK-1	145+39.03	TO	151+00.00	456	412
PMK-2	151+00.00	TO	153+79.79	385	-
TOTALS				841	412

SAFETY ITEMS SCHEDULE

SHEET	STATION	TO	STATION	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	BARRIER WALL MARKERS, TYPE C	TERMINAL MARKER, DIRECT APPLIED
				EACH	EACH	EACH	EACH
				63100085	63100167	78200530	78201000
PLNPRF-1	147+15.85	TO	151+00.00	4	4	8	4
PLNPRF-2	151+00.00	TO	151+90.03	-	-	-	-
TOTALS				4	4	8	4

EARTHWORK SCHEDULE

STATION TO STATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE *	EMBANKMENT	FURNISHED EXCAVATION
	20201200	20200100	-	-	20400800
ALONG KISHWAUKEE VALLEY ROAD					
147+15.85	147+50.00	3	27	21	40
147+50.00	148+00.00	16	74	56	164
148+00.00	148+50.00	31	64	48	222
148+50.00	148+90.66	24	24	18	104
BRIDGE OMISSION					
150+13.57	150+50.00	27	25	19	102
150+50.00	151+00.00	39	25	19	129
151+00.00	151+50.00	20	12	9	86
151+50.00	151+90.03	1	3	3	17
BETWEEN EXISTING AND PROPOSED BRIDGE ABUTMENTS					
100+39.37	100+65.37	0	246	185	0
TOTALS		161	500	378	882

* THE SHRINKAGE FACTOR USED IS 25%.

CHANNEL EXCAVATION SCHEDULE

STATION TO STATION	CHANNEL EXCAVATION	
		CU YD
	20300100	
100+39.37	100+65.37	15
100+65.37	100+72.17	-
100+72.17	100+97.95	32
TOTAL		47

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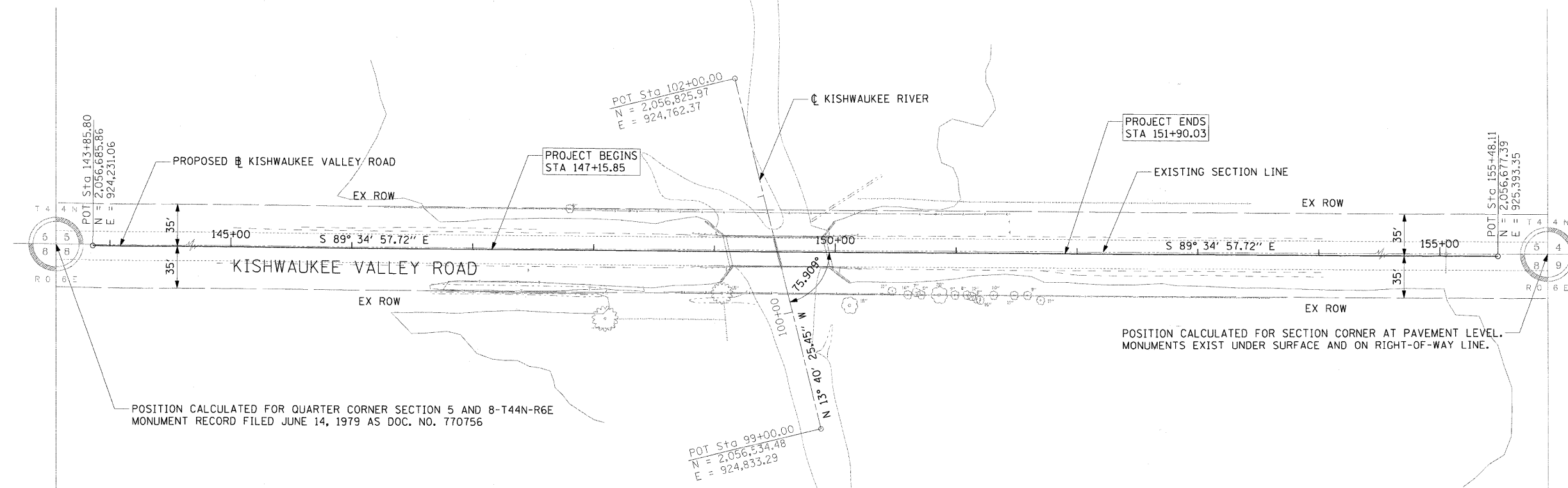
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**MCHENRY COUNTY
 DIVISION OF TRANSPORTATION**

SCHEDULE OF ROADWAY QUANTITIES

SCALE: NTS SHEET NO. 2 OF 2 SHEETS

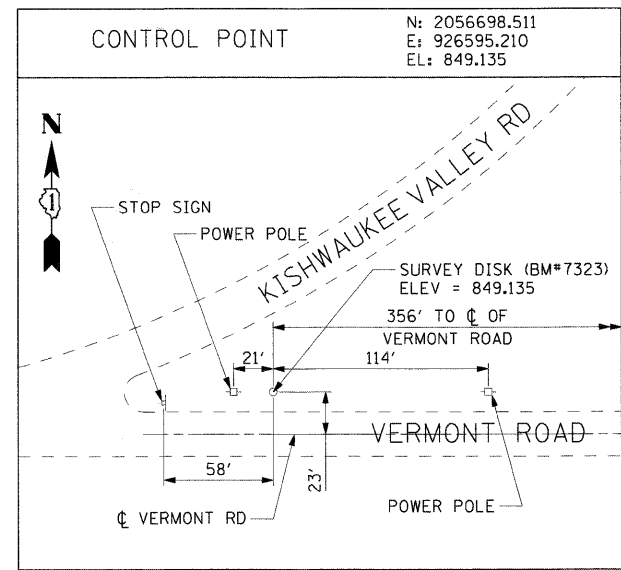
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0031	06-00323-00-BR	MCHENRY	53	9
CONTRACT NO. 63218				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



BENCHMARK NO 7323 ELEV = 849.135

DESCRIPTION:
 SURVEY DISK SET IN TOP OF CONCRETE MONUMENT STATION LOCATED 356 FEET WEST OF CENTERLINE OF VERMONT ROAD ON THE SOUTHEASTERLY SIDE OF KISHWAUKEE VALLEY ROAD WITHIN THE TRIANGLE CREATED BY THE ROADS.

NOTES:
 1. ALL ELEVATIONS SHOWN ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).



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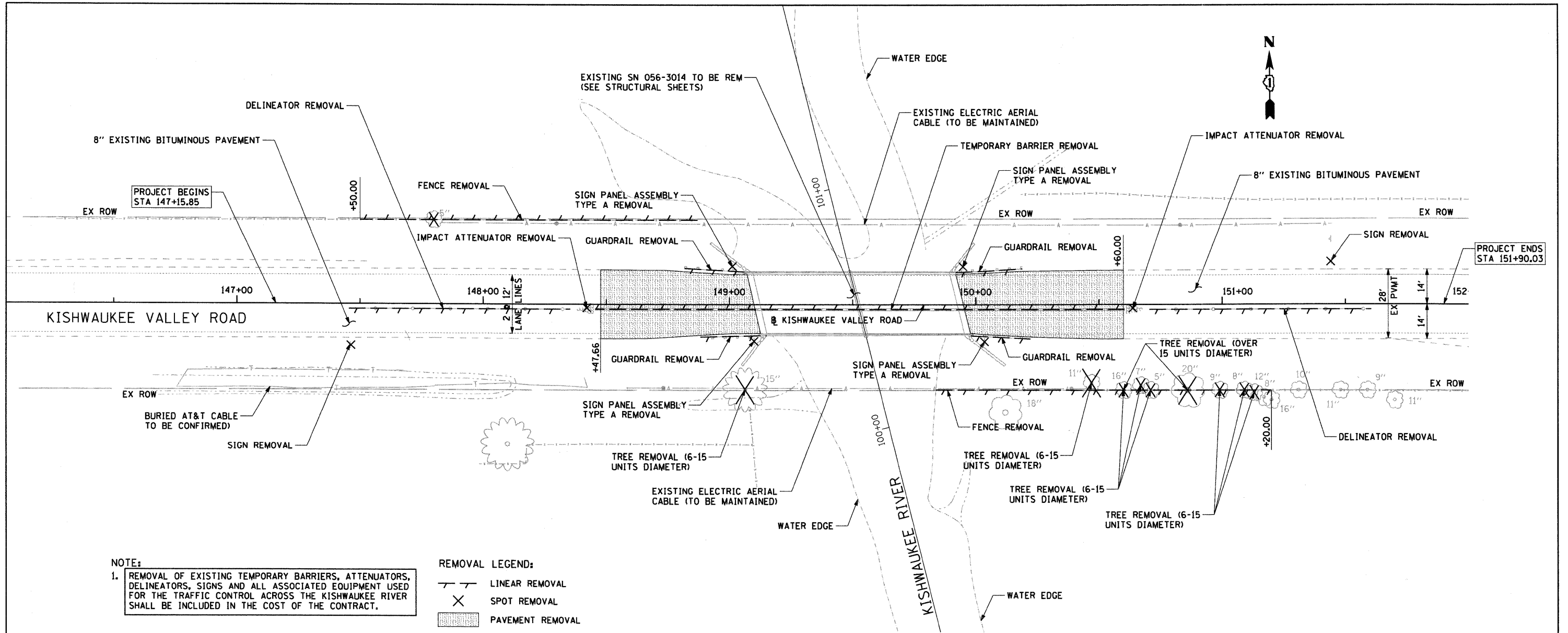
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**MCHENRY COUNTY
 DIVISION OF TRANSPORTATION**

ALIGNMENT, CONTROL POINTS AND BENCHMARKS
 SCALE: 1"=50'
 SHEET NO. 1 OF 1 SHEETS
 STA. 147+15.85 TO STA. 151+90.03

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0031	06-00323-00-BR	MCHENRY	53	10
CONTRACT NO. 63218				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				



NOTE:
 1. REMOVAL OF EXISTING TEMPORARY BARRIERS, ATTENUATORS, DELINEATORS, SIGNS AND ALL ASSOCIATED EQUIPMENT USED FOR THE TRAFFIC CONTROL ACROSS THE KISHWAUKEE RIVER SHALL BE INCLUDED IN THE COST OF THE CONTRACT.

REMOVAL LEGEND:
 --- LINEAR REMOVAL
 X SPOT REMOVAL
 [Hatched Box] PAVEMENT REMOVAL

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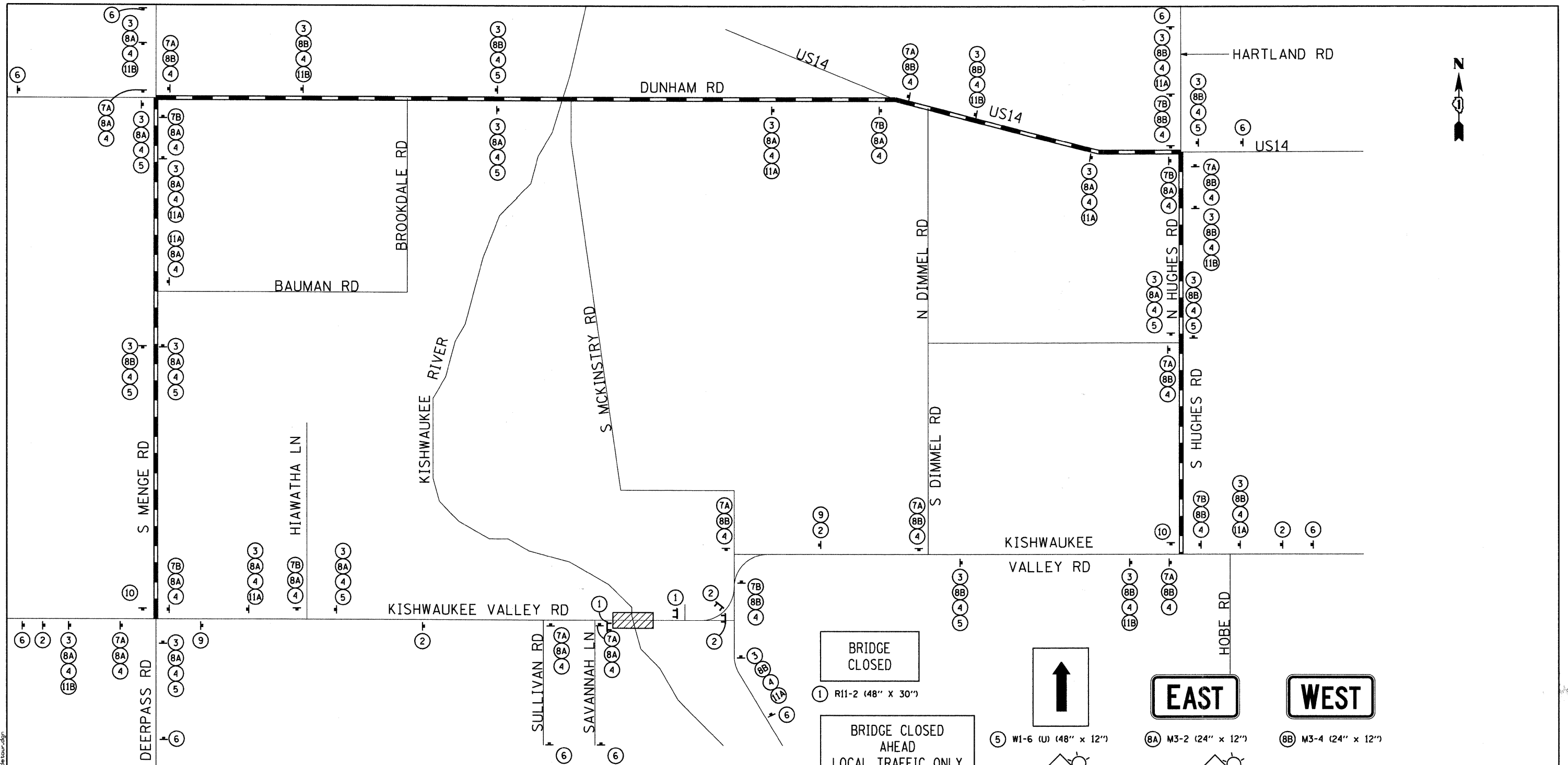
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**MCHENRY COUNTY
 DIVISION OF TRANSPORTATION**

REMOVAL PLAN

SCALE: 1"=20' SHEET NO. 1 OF 1 SHEETS STA. 147+15.85 TO STA. 151+90.03

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0031	06-00323-00-BR	MCHENRY	53	11
CONTRACT NO. 63218				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

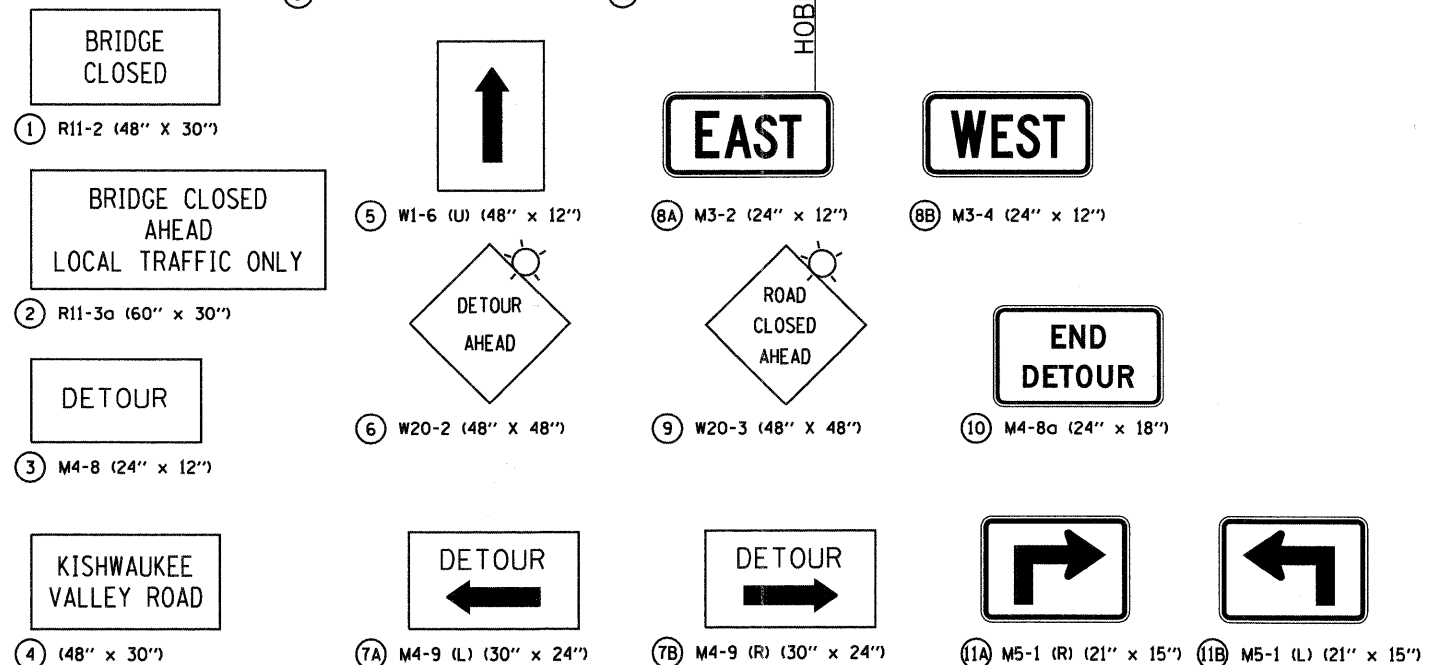


LEGEND:

- DETOUR ROUTE
- CONSTRUCTION ZONE
- TYPE III BARRICADE
- AMBER FLASHING LIGHT

NOTE:

1. TRAFFIC CONTROL AND PROTECTION SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 701 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. TYPE III BARRICADES SHALL BE PLACED IN ACCORDANCE WITH IDOT STANDARD 701901.
3. THE COST OF SUPPLYING, ERECTING AND MAINTAINING BARRICADES, WARNING LIGHTS AND SIGNS SHALL BE INCLUDED IN THE CONTRACT COST OF TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR.
4. ACCESS TO ALL PRIVATE ENTRANCES SHALL BE MAINTAINED.
5. CHANGEABLE MESSAGE SIGN SHALL BE PLACED AT EACH END OF KISHWAUKEE VALLEY ROAD FOR THE DURATION OF THE PROJECT. LOCATIONS TO BE DETERMINED BY THE ENGINEER.
6. TEMPORARY INFORMATION SIGNING SHALL BE PLACED AT EACH END OF KISHWAUKEE VALLEY ROAD AND ON VERMONT ROAD FOR THE DURATION OF THE PROJECT.



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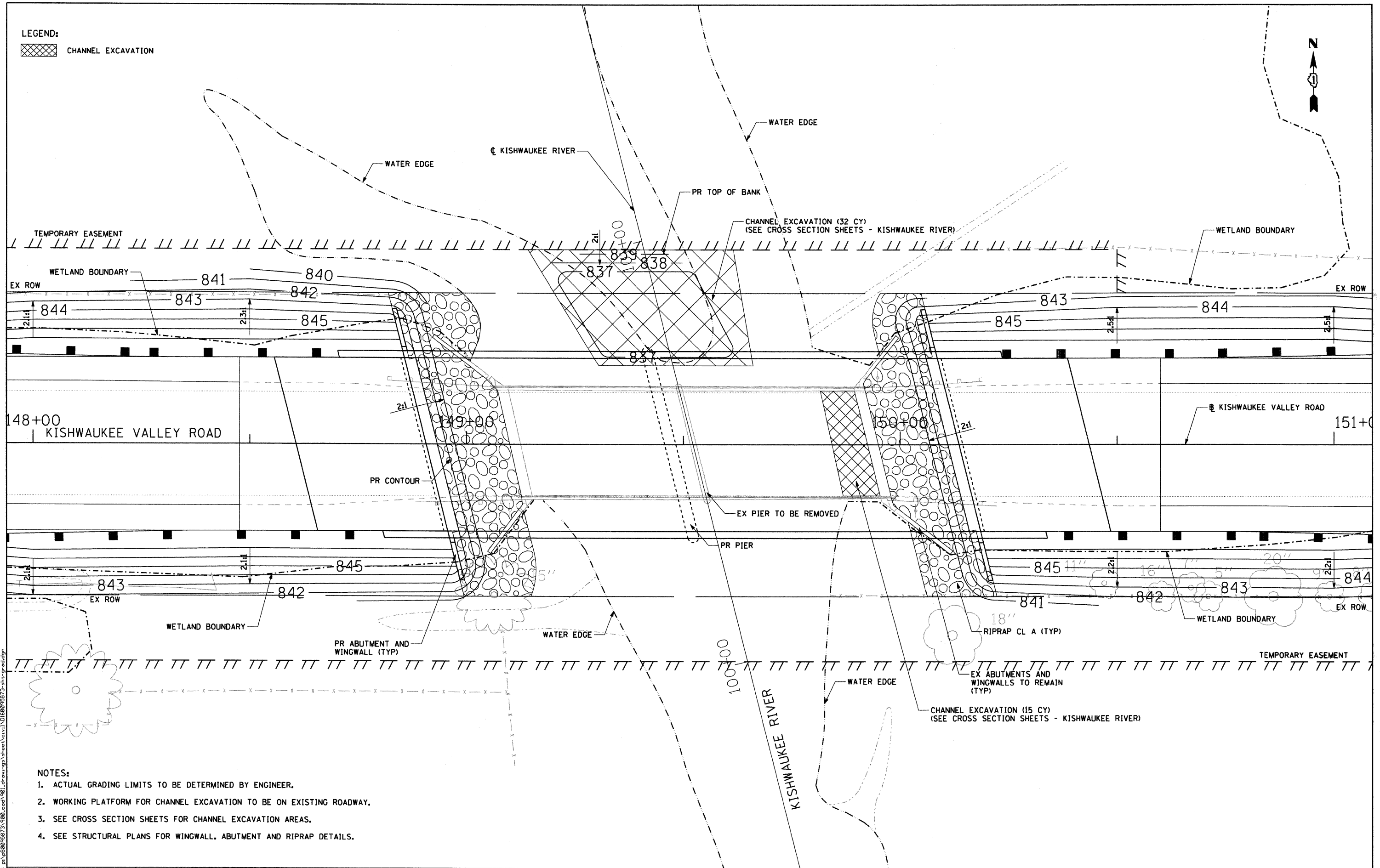
**MCHENRY COUNTY
 DIVISION OF TRANSPORTATION**

TRAFFIC CONTROL DETOUR PLAN

SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. 143+85.80 TO STA. 155+48.11

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0031	06-00323-00-BR	MCHENRY	53	13
CONTRACT NO. 63218				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

LEGEND:
 CHANNEL EXCAVATION



- NOTES:
1. ACTUAL GRADING LIMITS TO BE DETERMINED BY ENGINEER.
 2. WORKING PLATFORM FOR CHANNEL EXCAVATION TO BE ON EXISTING ROADWAY.
 3. SEE CROSS SECTION SHEETS FOR CHANNEL EXCAVATION AREAS.
 4. SEE STRUCTURAL PLANS FOR WINGWALL, ABUTMENT AND RIPRAP DETAILS.

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DESIGNED - MGR
 DRAWN - MGR
 CHECKED - RMC
 DATE - MARCH 20, 2009

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**MCHENRY COUNTY
 DIVISION OF TRANSPORTATION**

PROPOSED GRADING PLAN

SCALE: 1"=10' SHEET NO. 1 OF 1 SHEETS STA. 147+15.85 TO STA. 151+90.03

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0031	06-00323-00-BR	MCHENRY	53	15
CONTRACT NO. 63218				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

PART OF THE SE 1/4 OF SEC. 5 AND PART OF THE NE 1/4 OF SEC. 8, TWP. 44 N., R. 6 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.

PARCEL NUMBER	OWNER	TOTAL HOLDINGS ACRES	PART TAKEN ACRES	AREA IN EXISTING R.O.W. ACRES	REMAINDER AREA ACRES	EASEMENT AREA ACRES	EASEMENT PURPOSE	PERMANENT INDEX NUMBER	PROPERTY ACQUIRED BY
0001T.E.	AMCORE Investment Group, N.A., as Trustee under Trust Agreement dated August 17, 1979 known as Trust No. 1575	10.796	N/A	N/A	10.796	0.145	Construction Purposes	12-08-200-024	
0002T.E.	Robert G. McCann and Mary Teresa McCann, in Joint Tenancy	37.760	N/A	N/A	37.760	0.069	Construction Purposes	12-05-400-004	

LEGEND

- SECTION LINE
 - QUARTER SECTION LINE
 - PLATTED LOT LINE
 - PROPERTY (DEED) LINE
 - APPARENT PROPERTY LINE
 - CENTER LINE
 - EXISTING RIGHT OF WAY LINE
 - PROPOSED RIGHT OF WAY LINE
 - PROPOSED EASEMENT
 - MEASURED DIMENSION
 - COMPUTED DIMENSION
 - RECORD DATA
 - EXISTING BUILDING
- Bearings are referenced to the Illinois Coordinate System NAD 83(2007) East Zone at Found Geodetic Survey Control Monuments "Bear 1991", P.I.D. AJ2936 and "Kish Valley", P.I.D. AJ2965.
- IRON PIPE OR ROD FOUND
 - "MAG" NAIL SET
 - CUT CROSS FOUND OR SET
 - 5/8" REBAR SET
 - T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 - BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 - M STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
 - M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 - PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
 - RIGHT OF WAY STAKING PROPOSED TO BE SET.

STATE OF ILLINOIS }
 COUNTY OF LAKE }SS

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON BETWEEN SECTION 5, TOWNSHIP 44N., RANGE 6E. AND SECTION 8, TOWNSHIP 44N., RANGE 6E., 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 LAKE VILLA, ILLINOIS THIS 27th DAY OF May 2027 A.D.

Christian H. Jorgensen PRESIDENT
 ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 35-2797
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2010

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

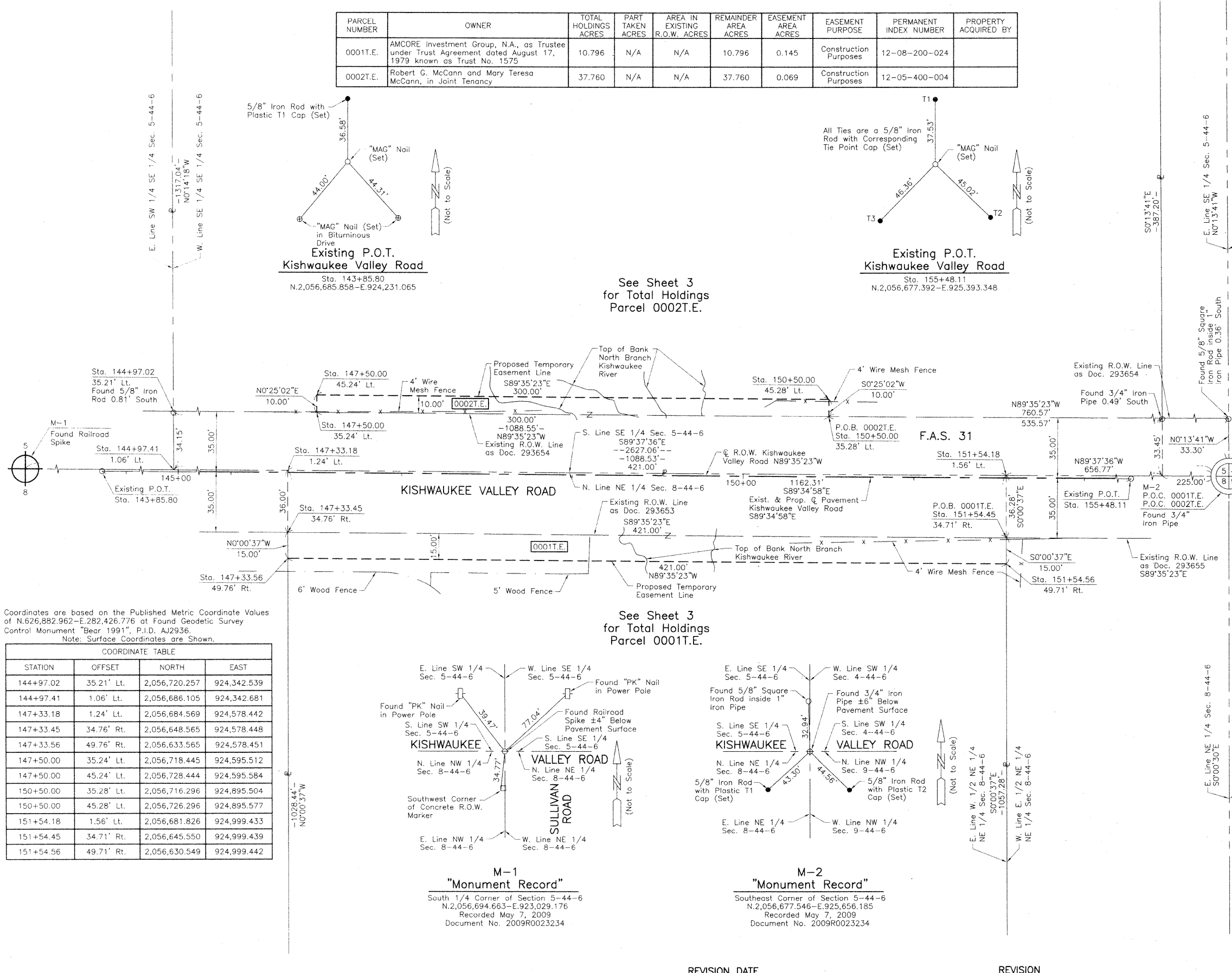
EXISTING R.O.W. RECORDED INFORMATION		
Parcel	Document No.	Date Recorded
0001	293653	June 8, 1955
0002	293654	June 8, 1955
----	293654	June 8, 1955
----	293655	June 8, 1955

JORGENSEN & ASSOCIATES, INC.
 120 PARK AVENUE
 LAKE VILLA, ILLINOIS 60046
 (847) 356-3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 F.A.S. 31 (KISHWAUKEE VALLEY ROAD)
 SECTION 06-00323-00-BR McHENRY COUNTY
 PROJECT JOB NO. R-91-033-06
 STATION 143+85.80 TO STATION 155+48.11
 SCALE: 1"=30'
 SHEET 2 OF 3

BUREAU OF LAND ACQUISITION
 201 WEST CENTER COURT
 SCHAUMBURG, ILLINOIS 60196



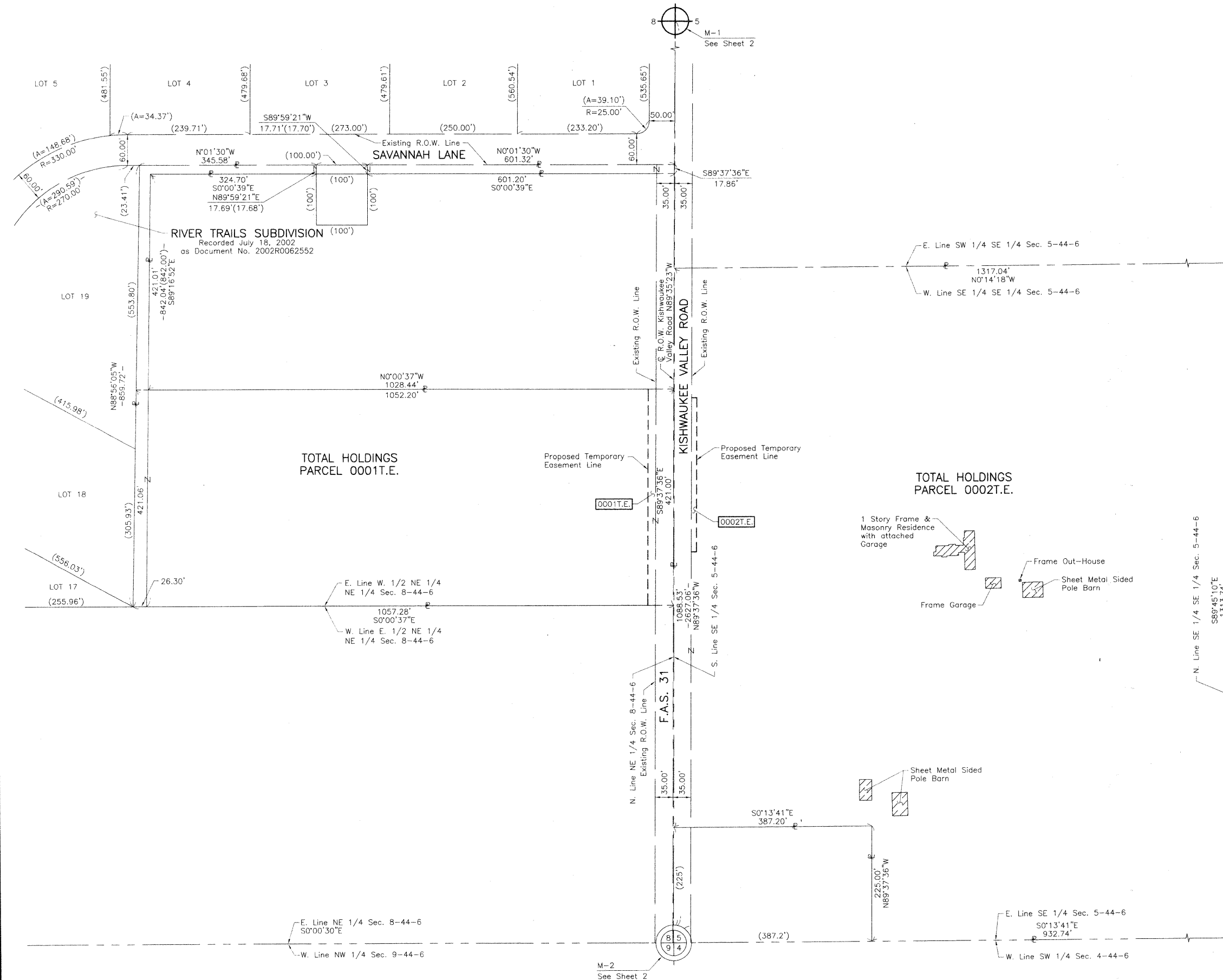
Coordinates are based on the Published Metric Coordinate Values of N.626,882.962-E.282,426.776 at Found Geodetic Survey Control Monument "Bear 1991", P.I.D. AJ2936.
 Note: Surface Coordinates are Shown.

COORDINATE TABLE			
STATION	OFFSET	NORTH	EAST
144+97.02	35.21' Lt.	2,056,720.257	924,342.539
144+97.41	1.06' Lt.	2,056,686.105	924,342.681
147+33.18	1.24' Lt.	2,056,684.569	924,578.442
147+33.45	34.76' Rt.	2,056,648.565	924,578.448
147+33.56	49.76' Rt.	2,056,633.565	924,578.451
147+50.00	35.24' Lt.	2,056,718.445	924,595.512
147+50.00	45.24' Lt.	2,056,728.444	924,595.584
150+50.00	35.28' Lt.	2,056,716.296	924,895.504
150+50.00	45.28' Lt.	2,056,726.296	924,895.577
151+54.18	1.56' Lt.	2,056,681.826	924,999.433
151+54.45	34.71' Rt.	2,056,645.550	924,999.439
151+54.56	49.71' Rt.	2,056,630.549	924,999.442

M-1 "Monument Record"
 South 1/4 Corner of Section 5-44-6
 N.2,056,694.663-E.923,029.176
 Recorded May 7, 2009
 Document No. 2009R0023234

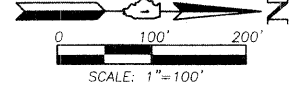
M-2 "Monument Record"
 Southeast Corner of Section 5-44-6
 N.2,056,677.546-E.925,656.185
 Recorded May 7, 2009
 Document No. 2009R0023234

PART OF THE SE 1/4 OF SEC. 5 AND PART OF THE NE 1/4 OF SEC. 8, TWP. 44 N., R. 6 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.



LEGEND

- SECTION CORNER
 - QUARTER SECTION CORNER
 - SECTION LINE
 - QUARTER SECTION LINE
 - PLATTED LOT LINE
 - PROPERTY (DEED) LINE
 - APPARENT PROPERTY LINE
 - CENTER LINE
 - EXISTING RIGHT OF WAY LINE
 - PROPOSED RIGHT OF WAY LINE
 - PROPOSED EASEMENT
 - MEASURED DIMENSION
 - COMPUTED DIMENSION
 - RECORD DATA
 - EXISTING BUILDING
- Bearings are referenced to the Illinois Coordinate System NAD 83(2007) East Zone at Found Geodetic Survey Control Monuments "Bear 1991", P.I.D. AJ2936 and "Kish Valley", P.I.D. AJ2965.
- IRON PIPE OR ROD FOUND
 - "MAG" NAIL SET
 - CUT CROSS FOUND OR SET
 - 5/8" REBAR SET
 - T1 THESE STAKES REFERENCE FOUND OR SET MONUMENTATION. SET 5/8 INCH IRON ROD FLUSH WITH GROUND TO TIE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 - T2
 - T3
 - BT1 THESE STAKES, IN CULTIVATED AREAS, REFERENCE FOUND OR SET MONUMENTATION. BURIED 5/8 INCH IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE. IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 - BT2
 - BT3
 - STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
 - STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 - PERMANENT SURVEY MARKER, I.D.O.T STD 2135 (TO BE SET BY OTHERS)
 - RIGHT OF WAY STAKING PROPOSED TO BE SET.



SCALE: 1"=100'

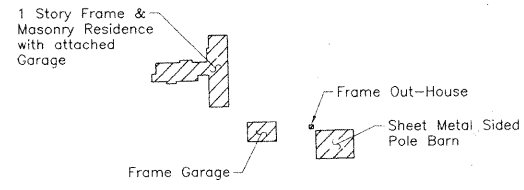
STATE OF ILLINOIS }
 COUNTY OF LAKE }SS

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON BETWEEN SECTION 5, TOWNSHIP 44N., RANGE 6E. AND SECTION 8, TOWNSHIP 44N., RANGE 6E., 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 LAKE VILLA, ILLINOIS THIS 8th DAY OF May 2009 A.D.

PRESIDENT
 2797 PROFESSIONAL LAND SURVEYOR STATE OF ILLINOIS
 LICENSE EXPIRATION DATE: NOVEMBER 30, 2010

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.



STATE OF ILLINOIS }
 COUNTY OF LAKE }SS

THIS IS TO CERTIFY THAT WE, JORGENSEN & ASSOCIATES, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-2771, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON BETWEEN SECTION 5, TOWNSHIP 44N., RANGE 6E. AND SECTION 8, TOWNSHIP 44N., RANGE 6E., 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 LAKE VILLA, ILLINOIS THIS 8th DAY OF May 2009 A.D.

PRESIDENT
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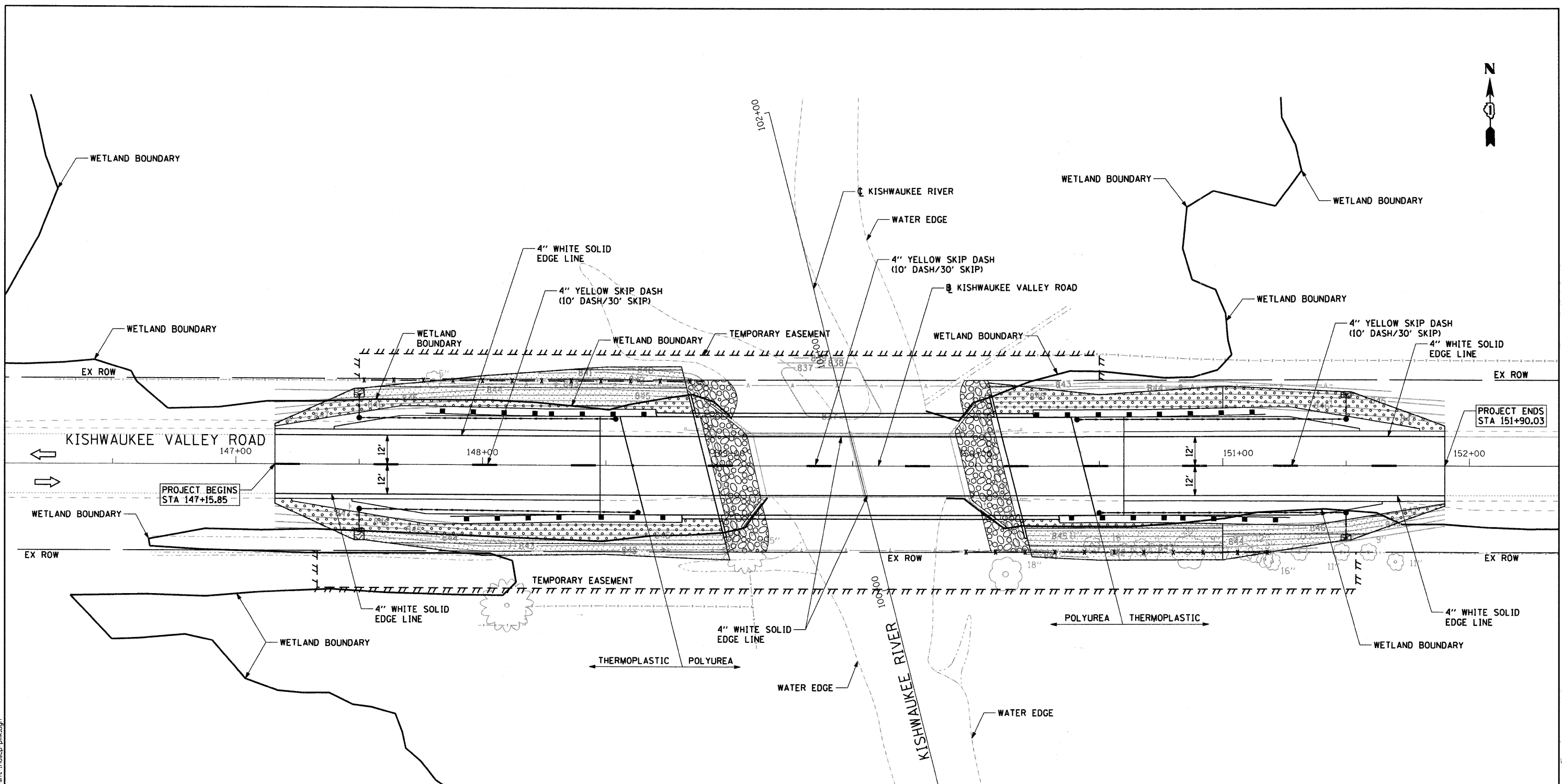
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

JORGENSEN & ASSOCIATES, INC.
 120 PARK AVENUE
 LAKE VILLA, ILLINOIS 60046
 (847) 356-3371

SHEET 1 IS A COVER SHEET AND IS NOT RECORDED.

PLAT OF HIGHWAYS
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 F.A.S. 31 (KISHWAUKEE VALLEY ROAD)
 SECTION 06-00323-00-BR McHENRY COUNTY
 PROJECT JOB NO. R-91-033-06
 STATION NONE TO STATION
 SCALE: 1"=100' SHEET 3 OF 3

BUREAU OF LAND ACQUISITION
 201 WEST CENTER COURT
 SCHAUMBURG, ILLINOIS 60196



- LEGEND:**
- SEEDING CLASS 4A
HEAVY DUTY EROSION CONTROL BLANKET
 - SEEDING CLASS 4B
HEAVY DUTY EROSION CONTROL BLANKET
 - RIPRAP

- NOTES:**
1. PAVEMENT MARKINGS ON CONCRETE SHALL BE POLYUREA. ALL OTHER PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
 2. SEE PLAN AND PROFILE SHEETS FOR ROADWAY CALLOUTS.
 3. SEEDING CLASS 4B SHALL BE USED WITHIN WETLAND BOUNDARY. ALL SEEDING OUTSIDE OF WETLAND BOUNDARIES SHALL BE SEEDING CLASS 4A.
 4. HEAVY DUTY EROSION CONTROL BLANKET SHALL BE USED ON ALL AREAS OF PERMANENT SEEDING.
 5. SEE BRIDGE PLANS FOR RIPRAP DETAILS.

FILE NAME: p:\a6600\6573\9800_sed\981_dr\awing\sheet\civ\1\016800\6573-ah-t-1\ndscp-pmk.dgn



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 PLOT SCALE = 20.00' / IN.
 PLOT DATE = 5/22/2009

DESIGNED - NJH
 DRAWN - NJH
 CHECKED - RMG
 DATE - MARCH 20, 2009

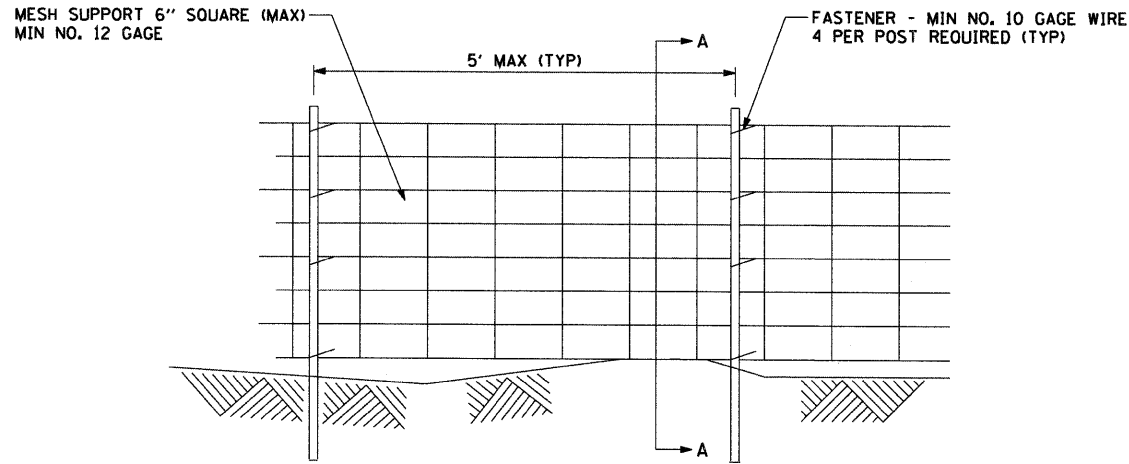
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**MCHENRY COUNTY
 DIVISION OF TRANSPORTATION**

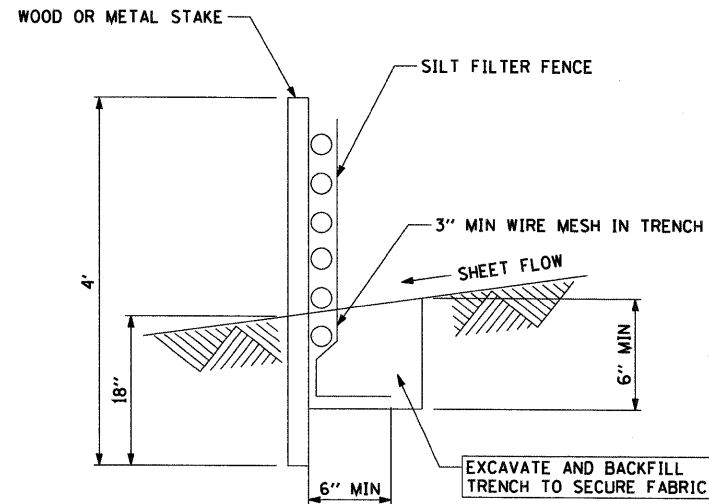
LANDSCAPING AND PAVEMENT MARKING PLANS

SCALE: 1"=20' SHEET NO. 1 OF 1 SHEETS STA. 147+15.85 TO STA. 151+90.03

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0031	06-00323-00-BR	MCHENRY	53	18
CONTRACT NO. 63218				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



ELEVATION



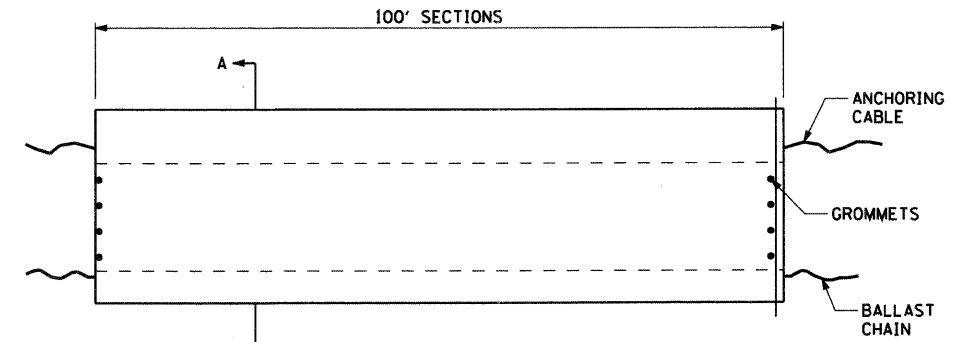
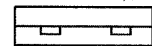
SECTION A-A

NOTES:

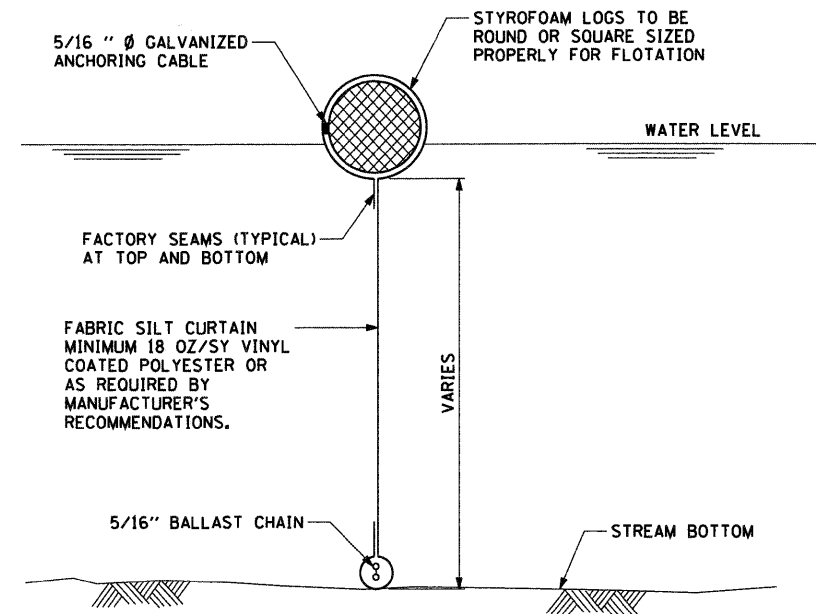
1. PERIMETER EROSION BARRIER SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED. IT SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.
2. WIRE MESH SHALL MEET THE REQUIREMENTS OF STANDARD SPECIFICATION ARTICLE 1081.15(d)

PERIMETER EROSION BARRIER WITH WIRE SUPPORT

STANDARD SYMBOL



ELEVATION



SECTION A-A

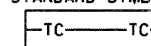
NOTES:

1. TURBIDITY CURTAIN SHALL BE ANCHORED TO PREVENT DRIFT SHOREWARD OR DOWNSTREAM. ANCHORAGES SHALL BE INSTALLED ON BOTH SHORE AND STREAM SIDE. CURTAINS ARE NOT TO BE INSTALLED ACROSS FLOWING BODY OF WATER.
2. SHORE ANCHORS SHALL CONSIST OF A POST WITH DEADMAN OR APPROVED EQUAL. STREAM ANCHORS SHALL BE OF SUFFICIENT SIZE TO STABILIZE THE CURTAIN WITH NUMBER AND SPACING DEPENDENT ON WATERWAY VELOCITIES.
3. FABRIC SECTIONS SHALL BE CONNECTED END TO END WITH MINIMUM 5/8" DIAMETER POLYPROPYLENE ROPE.
4. DESIGN OF CURTAIN AND ANCHORAGE SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. BOTTOM OF CURTAIN SHALL REACH BOTTOM OF WATERWAY USING ONE OR TWO VERTICAL SECTIONS AS REQUIRED.
5. MAINTENANCE SHALL BE PERFORMED AS NEEDED. CONTRACTOR SHALL REMOVE THE CURTAIN AT COMPLETION OF WORK IN A MANNER THAT WILL PREVENT SILTATION OF THE WATERWAY.

APPLICATION: TURBIDITY CURTAINS TO BE USED TO CONTROL TURBIDITY AND DEBRIS WHEN WORKING IN WATERWAYS.

TURBIDITY CURTAIN

STANDARD SYMBOL



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AECOM

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PLOT SCALE = 1:800 / 1" IN.
PLOT DATE = 5/22/2009

DESIGNED -
DRAWN - NJH
CHECKED - RMG
DATE - MARCH 20, 2009

REVISED -
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REVISED -

MCHENRY COUNTY
DIVISION OF TRANSPORTATION

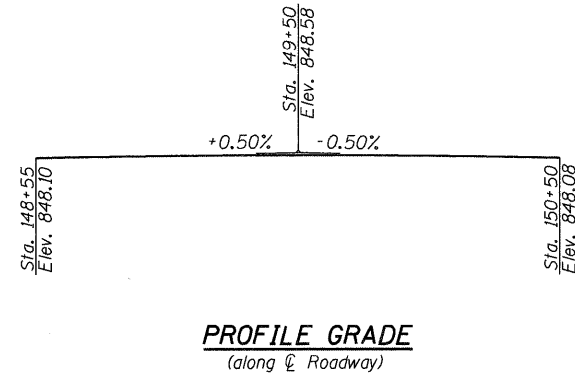
ROADWAY DETAILS - TEMPORARY EROSION CONTROL

SCALE: NTS SHEET NO. 1 OF 1 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0031	06-00323-00-BR	MCHENRY	53	19
CONTRACT NO. 63218				
FED. ROAD DIST. NO. 1 ILLINDIS FED. AID PROJECT				

GENERAL NOTES

- Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
- Reinforcement bars designated (E) shall be epoxy coated.
- 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.
- The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
- 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.
- In lieu of the hammer selection criteria and use of the FHWA Modified Gates formula specified in Section 512 of the Standard Specifications, the Contractor shall conduct a wave equation analysis to establish the driving criteria at all pile foundations which specify a nominal required bearing above 600 kips. The analysis and calculations shall be submitted to the Engineer for approval.
- The Contractor shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water except cofferdams. This shall include the placement of material for run-arounds, causeways, etc. Any permit application by the Contractor shall refer to the IDNR permit number as shown in the contract plans.
- Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment and wingwall at elevation shown on this sheet to ensure the remaining portion will not be damaged.
- If a portion of the pier wall or concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.
- The contractor is advised that the existing structure contains member that are in deteriorated condition with reduced load carrying capacity. It is the contractor's responsibility to account for the condition of the existing structure when developing construction procedure for removal.



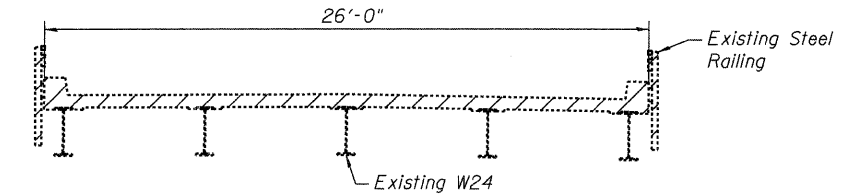
PROFILE GRADE
(along Center Roadway)

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Porous Granular Embankment, Special	Cu. Yd.		135.8	135.8
Stone Riprap, Class A4	Sq. Yd.		320	320
Filter Fabric	Sq. Yd.		320	320
Removal Of Existing Structures	Each	0.5	0.5	1
Structure Excavation	Cu. Yd.		271.4	271.4
Concrete Structures	Cu. Yd.		103.3	103.3
Concrete Superstructure	Cu. Yd.	334.8		334.8
Bridge Deck Grooving	Sq. Yd.	772		772
Concrete Encasement	Cu. Yd.		13.1	13.1
Protective Coat	Sq. Yd.	950		950
Furnishing and Erecting Precast Pressressed Concrete I-Beams, 36 in.	Foot	843		843
Reinforcement Bars, Epoxy Coated	Pound	81,750	9,370	91,120
Bar Splicers	Each	84		84
Furnishing Steel Piles HP14X73	Foot		756	756
Furnishing Steel Piles HP14X89	Foot		619	619
Driving Piles	Foot		1,281	1,281
Test Pile Steel HP14X73	Each		2	2
Test Pile Steel HP14X89	Each		1	1
Pile Shoes	Each		24	24
Name Plates	Each	1		1
Geocomposite Wall Drain	Sq. Yd.		85.0	85.0
Pipe Underdrains for Structures 4"	Foot		120	120
Underwater Structure Excavation Protection - Location 1	Each		1	1

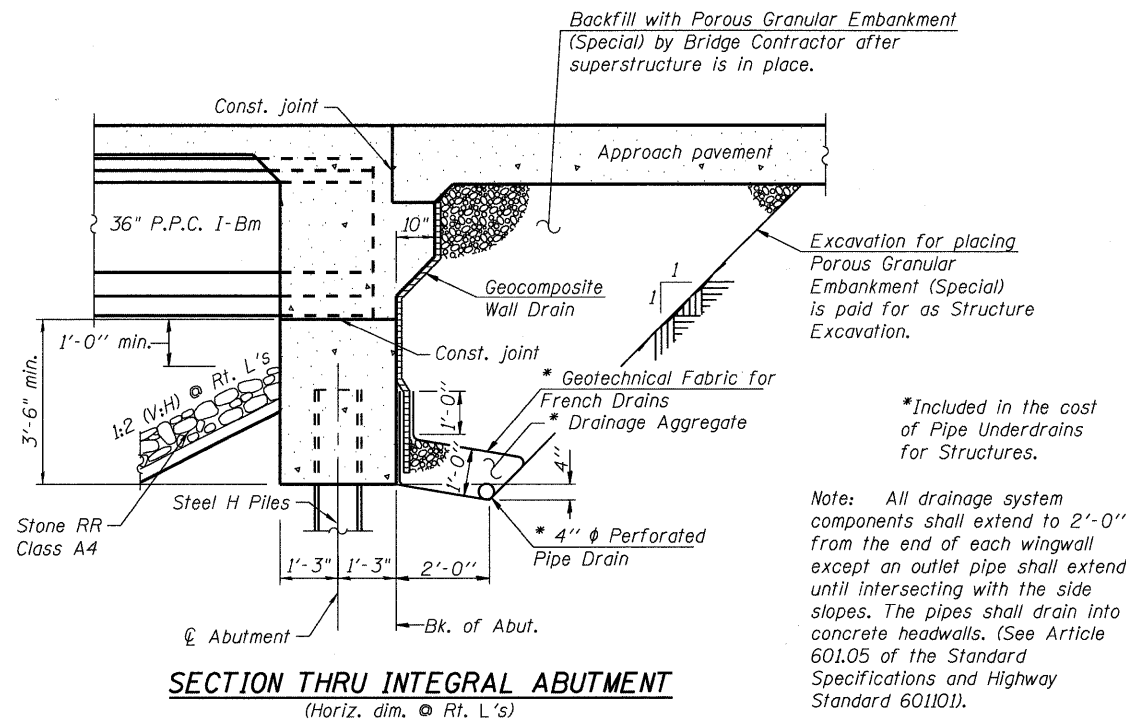
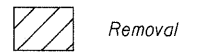
INDEX OF SHEETS

- S-1 General Plan and Elevation
- S-2 General Notes and Bill of Materials
- S-3 Top of Slab Elevations I
- S-4 Top of Slab Elevations II
- S-5 Top of Slab Elevations III
- S-6 Top of West Approach Slab Elevations
- S-7 Top of East Approach Slab Elevations
- S-8 Superstructure Details I
- S-9 Superstructure Details II
- S-10 Superstructure Details III
- S-11 Bridge Approach Slab Details I
- S-12 Bridge Approach Slab Details II
- S-13 Framing Plan
- S-14 36" PPC I-Beam Details - Span 1
- S-15 36" PPC I-Beam Details - Span 2
- S-16 36" PPC I-Beam Details
- S-17 East Abutment
- S-18 West Abutment
- S-19 Pier
- S-20 Pile Details
- S-21 Bar Splicer Assembly Details
- S-22-S-23 Soil Boring Logs

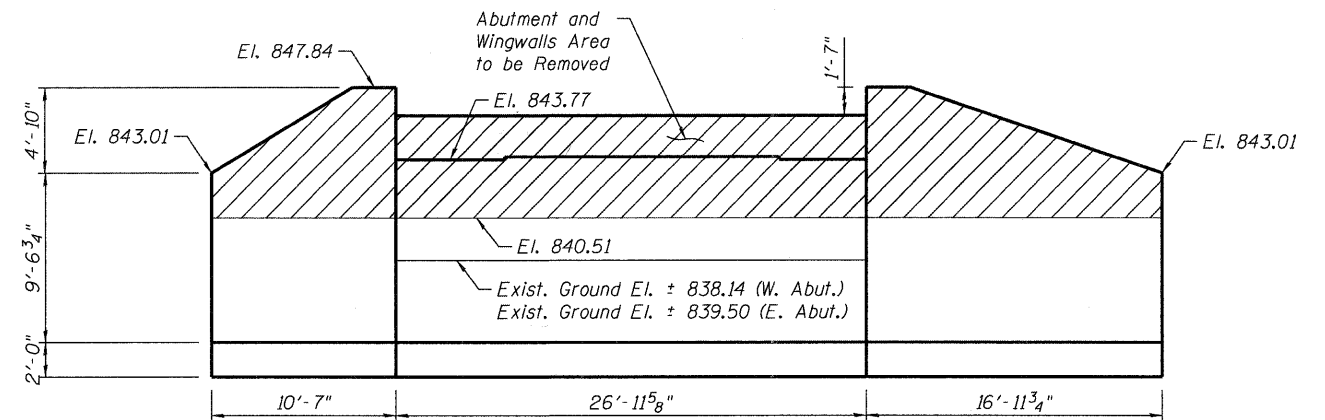


EXISTING CROSS SECTION

LEGEND:



SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. @ Rt. L's)



EXISTING ABUTMENT REMOVAL
(West Abutment Shown, East Abutment Similar)

Sheet No. S-2 of 23

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AECOM

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PLOT DATE = 5/28/2009

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DRAWN - DD
CHECKED - ATB
DATE - 3/18/2009

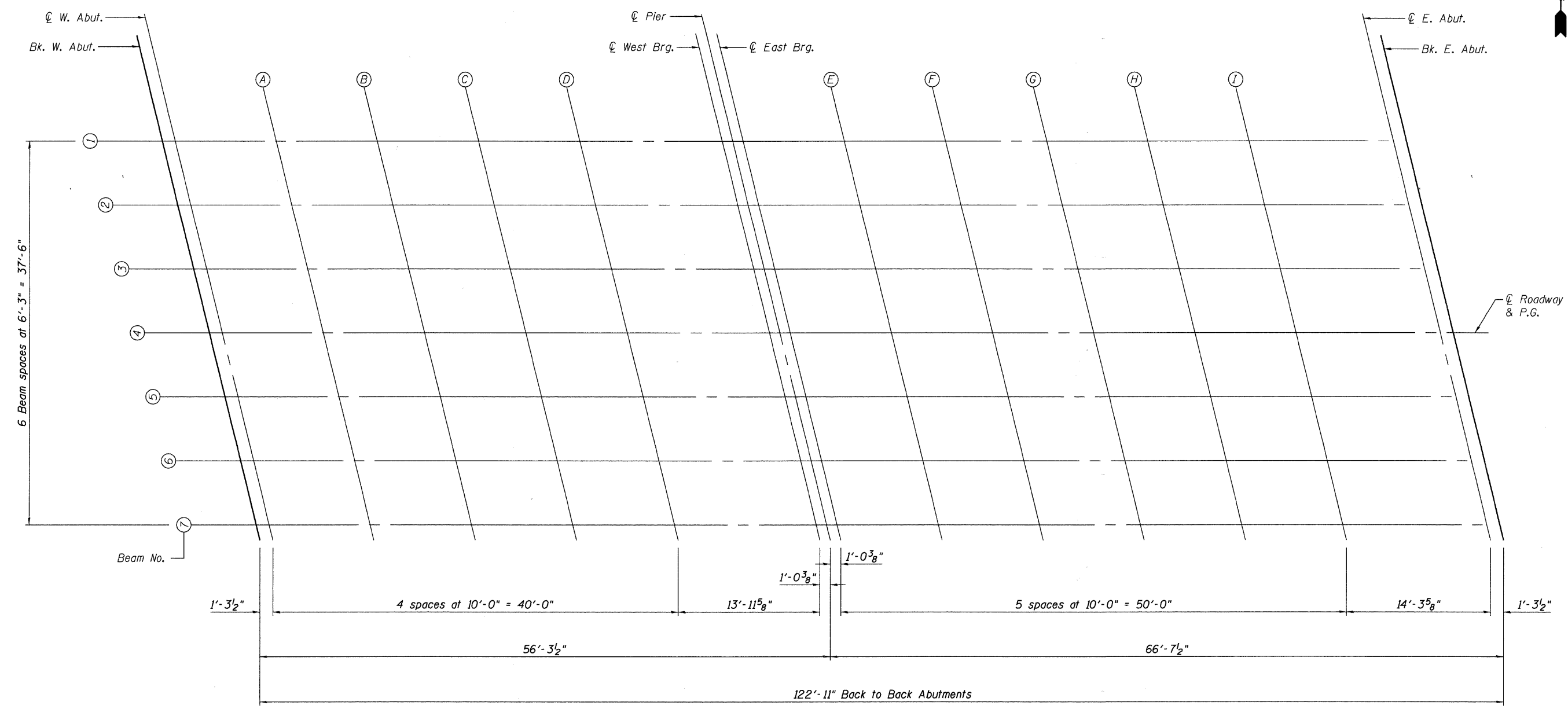
REVISED -
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REVISED -
REVISED -

**MCHENRY COUNTY
DIVISION OF TRANSPORTATION**

**GENERAL NOTES AND BILL OF MATERIALS
STRUCTURE NO. 056-3177**

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0031	06-00323-00-BR	MCHENRY	53	21
CONTRACT NO. 63218				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

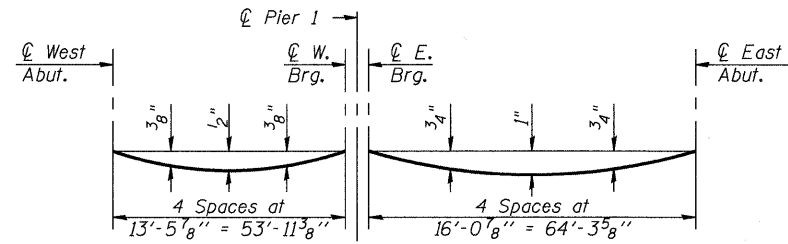


PLAN

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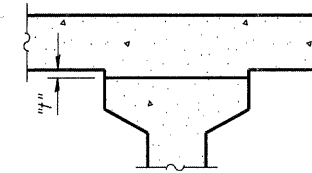
Sheet No. S-3 of 23

AECOM	USER NAME = debezicd	DESIGNED - DD	REVISED -	MCHENRY COUNTY DIVISION OF TRANSPORTATION	TOP OF SLAB ELEVATIONS I STRUCTURE NO. 056-3177		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 0.1" = 1'-0"	DRAWN - DD	REVISED -		SCALE:	SHEET NO. 1 OF 3 SHEETS	STA. TO STA.	0031	06-00323-00-BR	MCHENRY	53
	PLOT DATE = 5/28/2009	CHECKED - ATB	REVISED -				CONTRACT NO. 63218				
	DATE - 3/18/2009		REVISED -				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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 on sheets S-4 and S-5.



To determine "t": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown on sheet S-3. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" shown on sheets S-4 and S-5, minus slab thickness, equals the fillet heights "t" above top flanges of beams.

FILLET HEIGHTS

BEAM 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	148+93.78	12.5	848.00	848.00
℄. W. Abut.	148+95.07	12.5	848.01	848.01
A	149+05.07	12.5	848.04	848.06
B	149+15.07	12.5	848.06	848.10
C	149+25.07	12.5	848.08	848.12
D	149+35.07	12.5	848.09	848.12
℄. W. Brg. Pier	149+49.04	12.5	848.09	848.09
℄. Pier	149+50.07	12.5	848.09	848.09
℄. E. Brg. Pier	149+51.10	12.5	848.09	848.09
E	149+61.10	12.5	848.09	848.14
F	149+71.10	12.5	848.08	848.16
G	149+81.10	12.5	848.07	848.15
H	149+91.10	12.5	848.05	848.13
I	150+01.10	12.5	848.02	848.08
℄. E. Abut.	150+15.41	12.5	847.98	847.98
Bk. E. Abut.	150+16.69	12.5	847.97	847.97

BEAM 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. W. Abut.	148+95.33	18.75	847.88	847.88
℄. W. Abut.	148+96.62	18.75	847.88	847.88
A	149+06.62	18.75	847.91	847.94
B	149+16.62	18.75	847.93	847.97
C	149+26.62	18.75	847.95	847.99
D	149+36.62	18.75	847.96	847.99
℄. W. Brg. Pier	149+50.59	18.75	847.96	847.96
℄. Pier	149+51.62	18.75	847.96	847.96
℄. E. Brg. Pier	149+52.65	18.75	847.96	847.96
E	149+62.65	18.75	847.96	848.01
F	149+72.65	18.75	847.95	848.02
G	149+82.65	18.75	847.94	848.02
H	149+92.65	18.75	847.91	848.00
I	150+02.65	18.75	847.89	847.95
℄. E. Abut.	150+16.96	18.75	847.84	847.84
Bk. E. Abut.	150+18.24	18.75	847.84	847.84

FILE NAME = \\natchglp207\p68095873\p68095873\06_cad\98\dr\sw\slab\sheet\structure\056-3177_68095873_596_Top_of_Slab_Elevations_3.dwt

AECOM

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PLOT SCALE = 0.1" = 1' IN.
PLOT DATE = 5/28/2009

DESIGNED - DD
DRAWN - DD
CHECKED - ATB
DATE - 3/18/2009

REVISED -
REVISED -
REVISED -
REVISED -

**MCHENRY COUNTY
DIVISION OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS III
STRUCTURE NO. 056-3177**

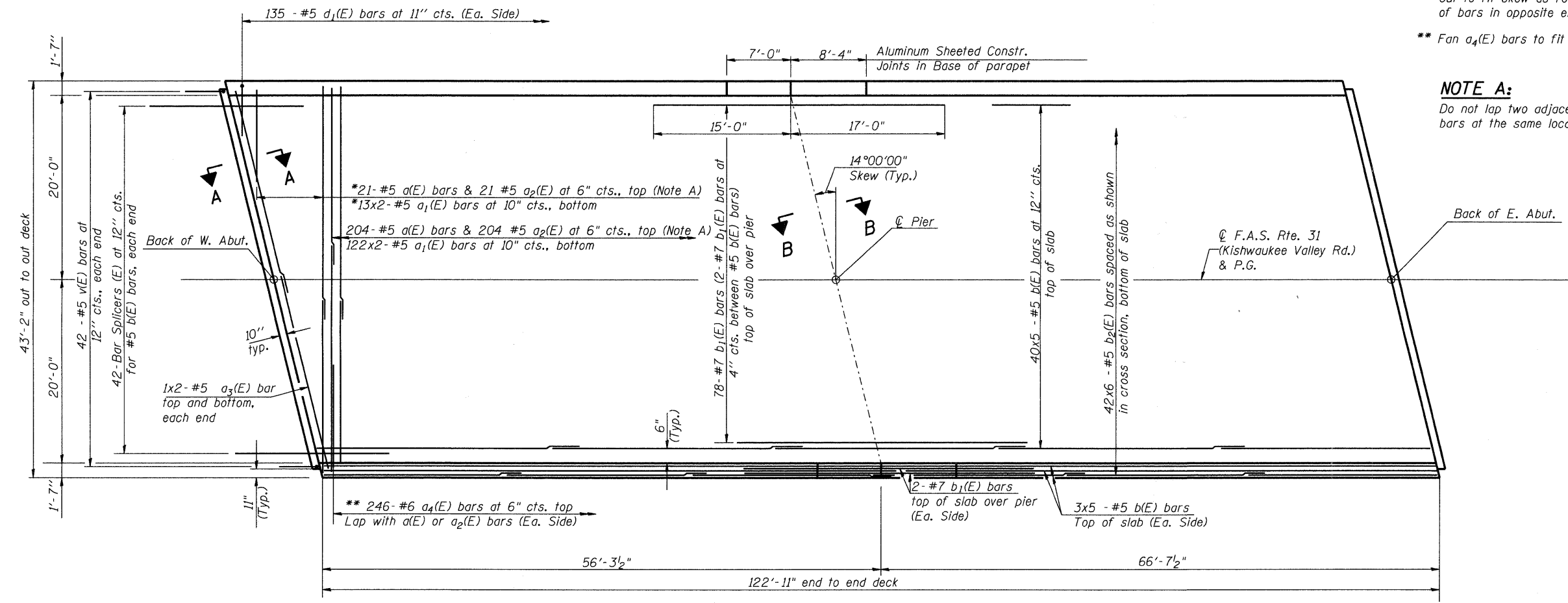
SCALE: SHEET NO. 3 OF 3 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0031	06-00323-00-BR	MCHENRY	53	24
CONTRACT NO. 63218				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

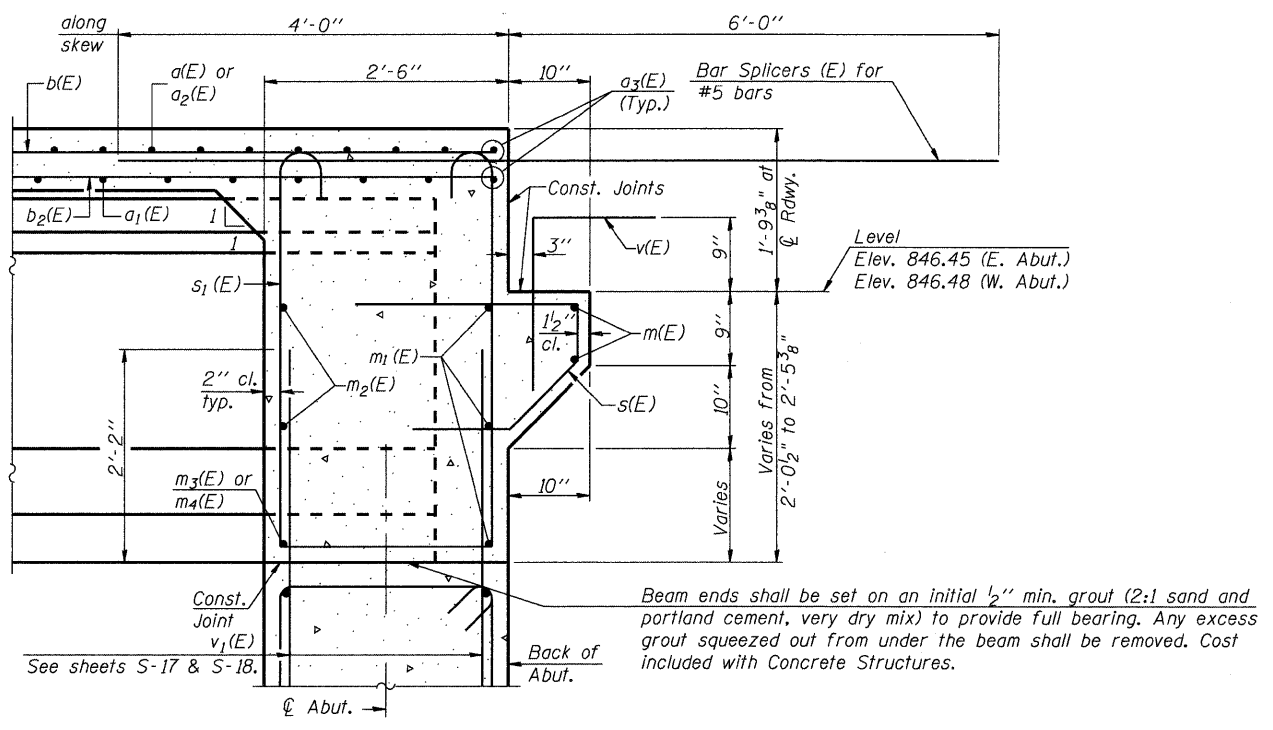
* Order $a(E)$, $a_1(E)$ and $a_2(E)$ bars full length. Cut to fit skew as required and use remainder of bars in opposite end.

** Fan $a_4(E)$ bars to fit at corners.

NOTE A:
Do not lap two adjacent $a(E)$ and $a_2(E)$ bars at the same location.



PLAN

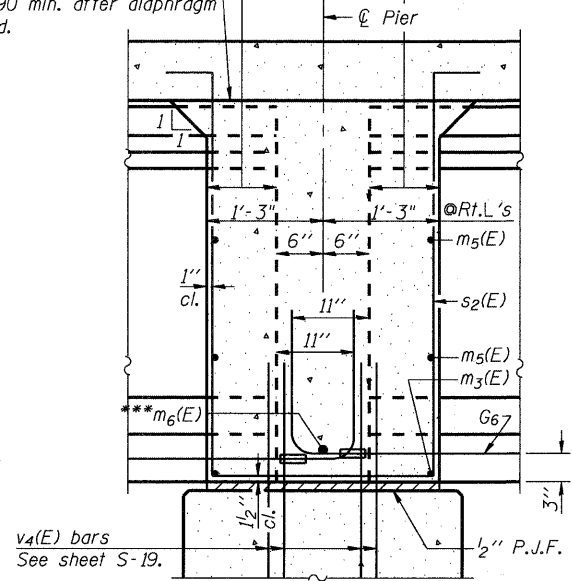


SECTION A-A

Dimensions at right angles to abutment, except as shown.

Pour diaphragm flush with bott. of slab. Concrete in slab above this line shall be placed not less than 45 min. nor more than 90 min. after diaphragm has been poured.

Roofing felt shall be bonded to side of beam embedded into diaphragm.



SECTION B-B

Dimensions along ϕ of beam, except as shown.

***Tightly fasten the #8 bars together with No. 9 wire ties.

NOTES:

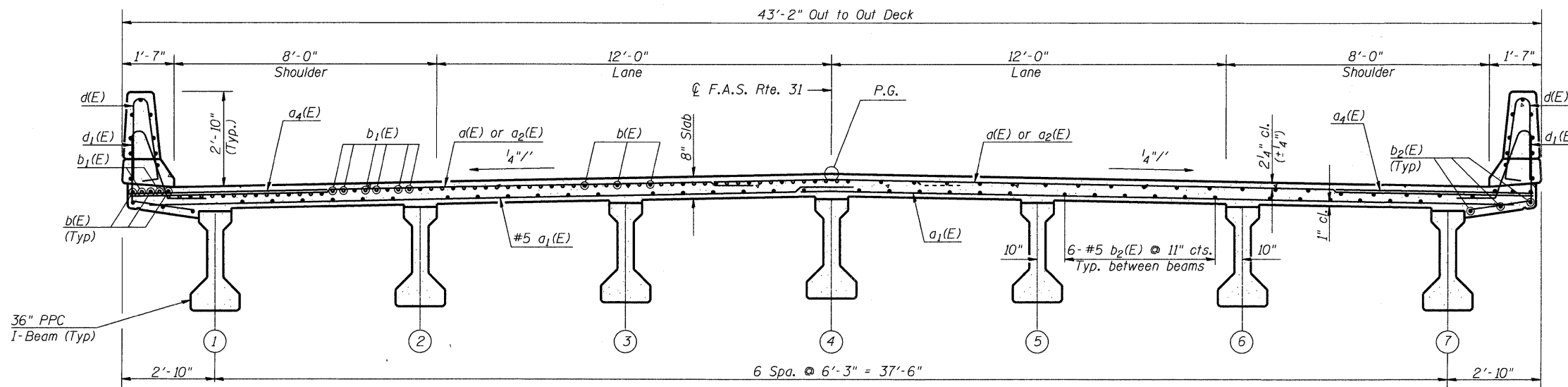
See Sheets S-9 for superstructure details.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
See Sheet S-10 for parapet reinforcement and Bill of Material.

MIN. BAR LAP

#5 bar = 2'-2"

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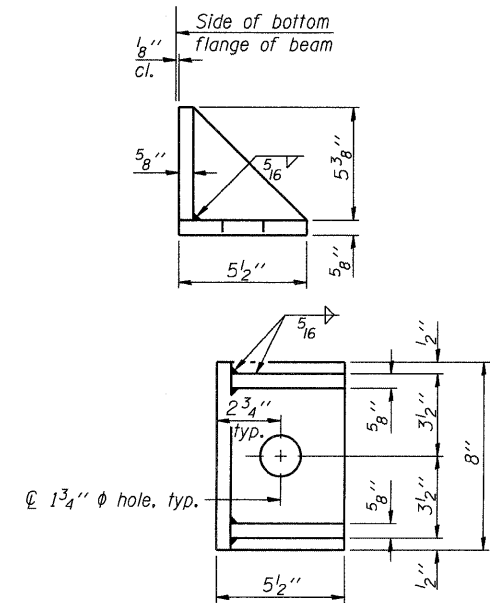
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	PLOT SCALE = 0:1 1/2" = 1"	DRAWN - DD	REVISED -							
	PLOT DATE = 5/28/2009	CHECKED - ATB	REVISED -	DIVISION OF TRANSPORTATION	STRUCTURE NO. 056-3177	CONTRACT NO. 63218				
		DATE - 3/18/2009	REVISED -		SCALE:	SHEET NO. 1 OF 3 SHEETS		STA.	TO STA.	
						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NEAR PIER

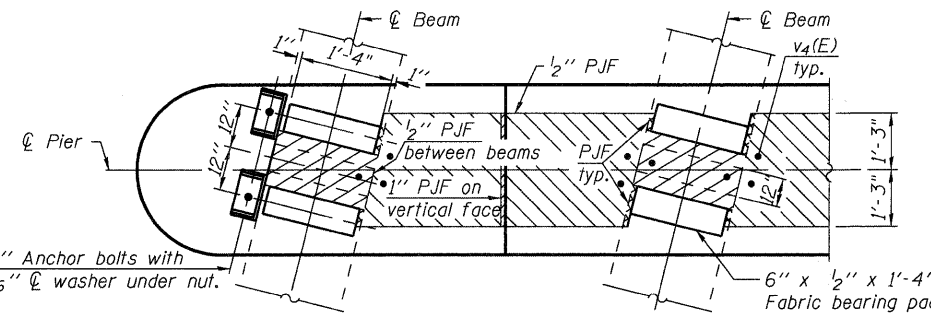
CROSS SECTION
(Looking East)

NEAR MIDSPAN



SIDE RETAINER

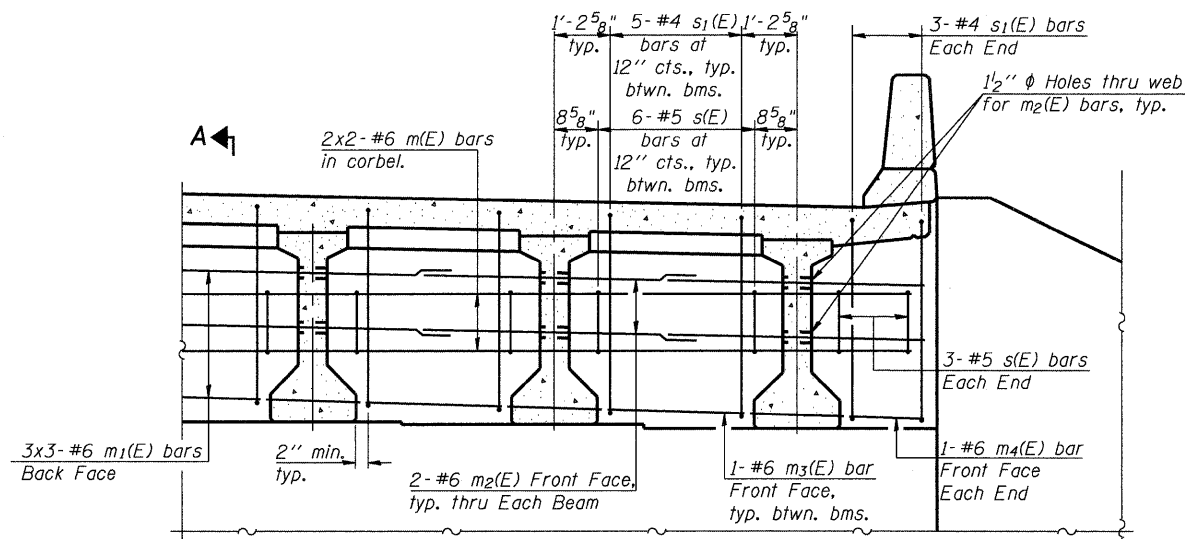
(2 required each side of pier).
Equivalent rolled angle with stiffeners
will be allowed in lieu of welded plates.



PLAN AT PIER
(Showing bearing pad and PJF details)

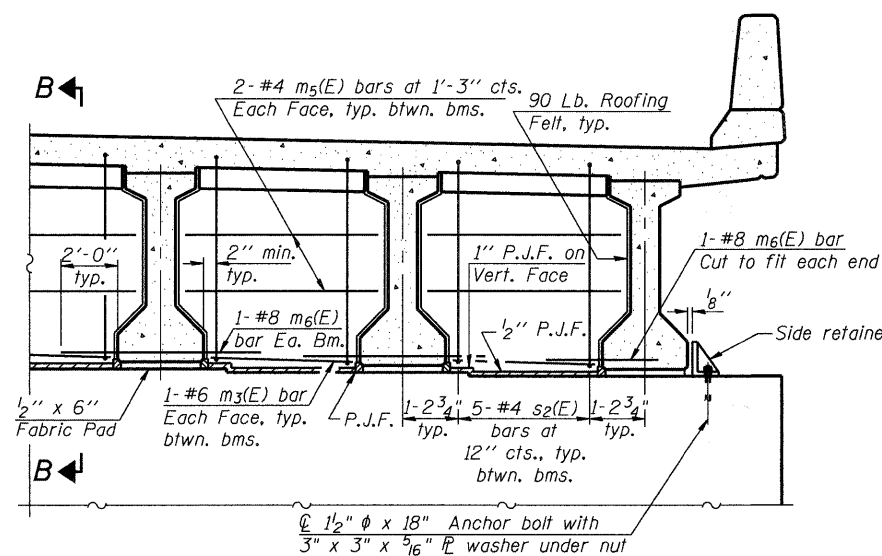
MIN. BAR LAP

#6 bar = 2'-7"



DIAPHRAGM ELEVATION AT ABUTMENT

(East diaphragm shown, looking east.
West diaphragm similar)



DIAPHRAGM AT PIER

(Looking east)

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.
See sheet S-8 for Sections A-A and B-B.
Cost of 90 Lb. roofing felt is included with Concrete Superstructure.
The side retainer shall be galvanized after shop fabrication according to AASHTO M 111.
Anchor bolt assemblies shall be galvanized according to Article 1006.09 of the Standard Specifications.
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
Anchor bolts for side retainers may be either cast in place or installed in holes drilled after the supporting member is in place and prior to pouring the deck.
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
Cost of side retainer and anchor bolts shall be included with Concrete Structures.

Sheet No. S-9 of 23

FILE NAME = \\unichg1\p207\p60095873\p60095873_000_cad\981_drawing\sheet\structure\056-317-60095873_509_Superstructure_Details_2.dwg

AECOM

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PLOT DATE = 5/28/2009

DESIGNED - DD
DRAWN - DD
CHECKED - ATB
DATE - 3/18/2009

REVISED -
REVISED -
REVISED -
REVISED -

MCHENRY COUNTY
DIVISION OF TRANSPORTATION

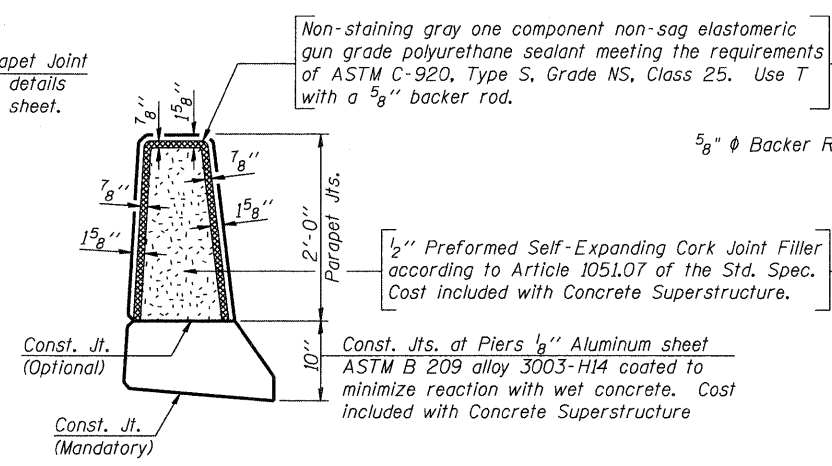
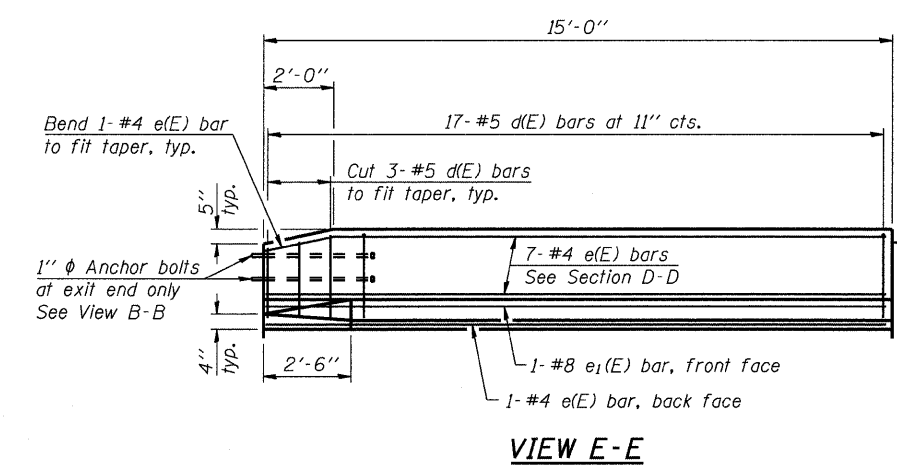
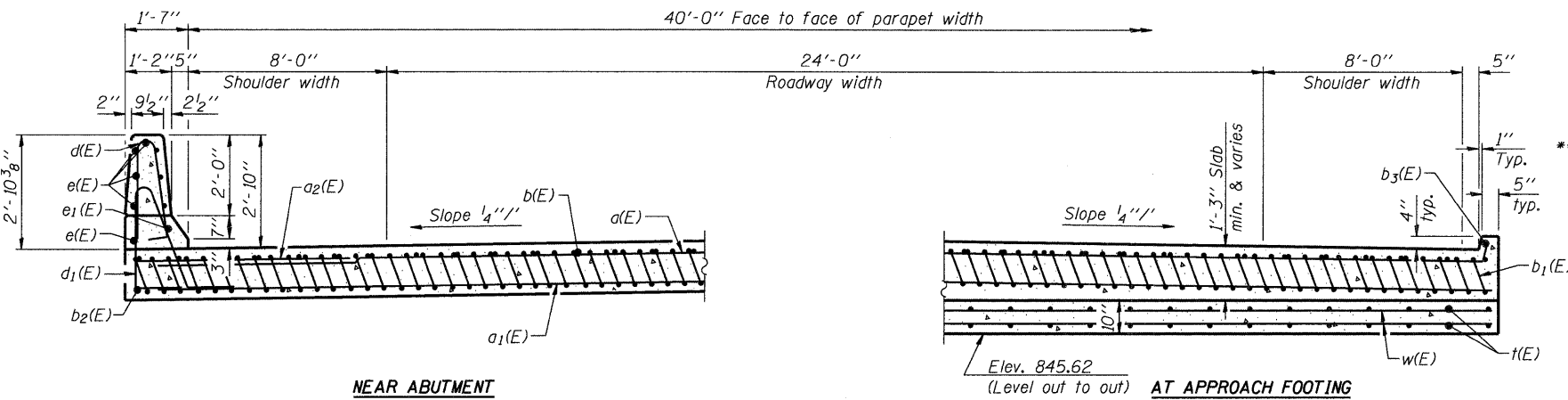
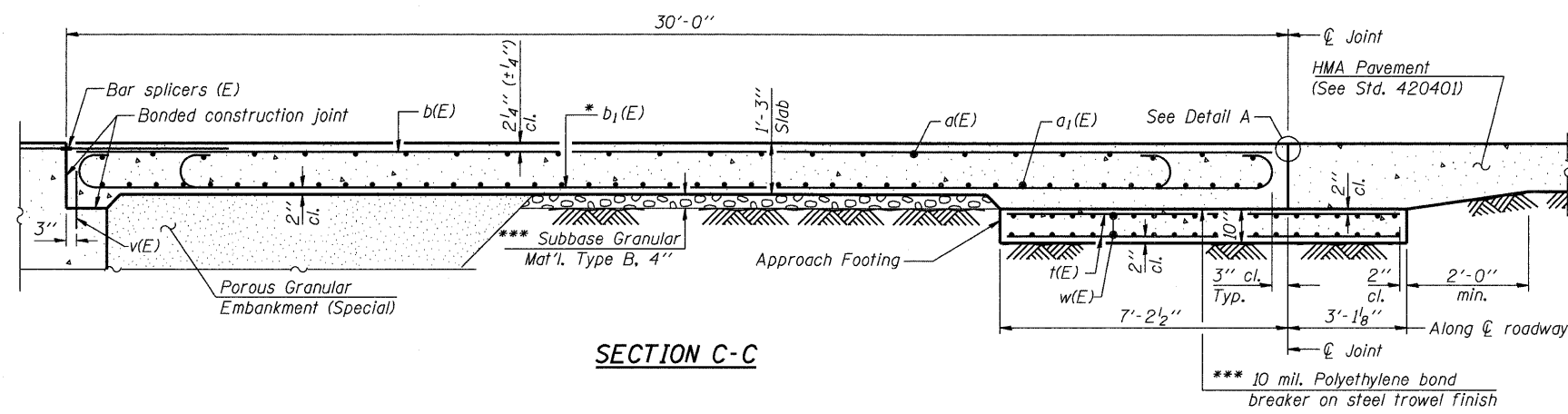
SUPERSTRUCTURE DETAILS II
STRUCTURE NO. 056-3177

SCALE: SHEET NO. 2 OF 3 SHEETS STA. TO STA.

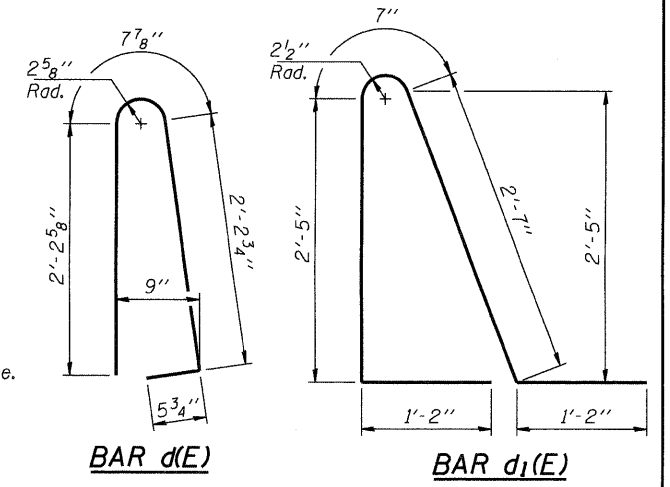
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0031	06-00323-00-BR	MCHENRY	53	28
CONTRACT NO. 63218				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

NOTES:

See sheet S-11 for Detail A and View B-B.
 Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
 Approach footing concrete shall be paid for as Concrete Structures.
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 For v(E) bar details, see sheet S-10.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 For bar splicer details, see sheet S-21.
 Cost of excavation for approach footing included with Concrete Structures.
 For Porous Granular Embankment (Special) and drainage treatment details, see sheet S-2.

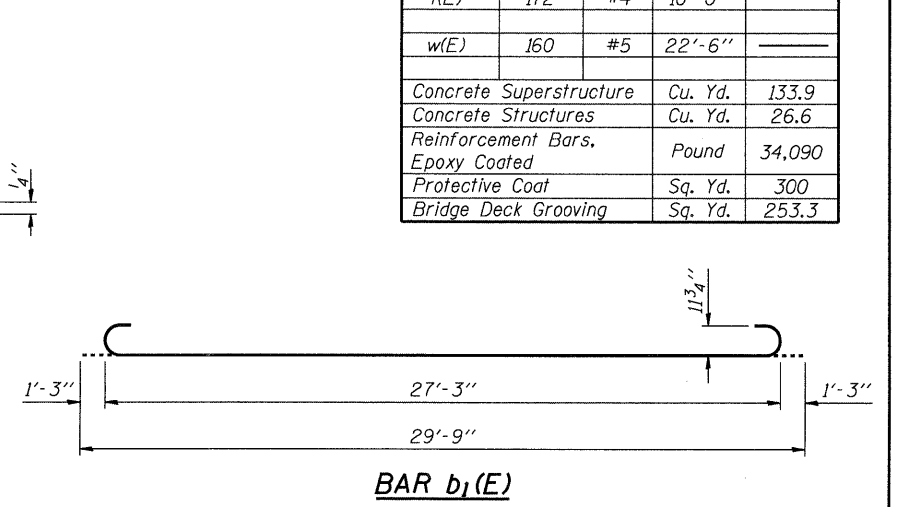
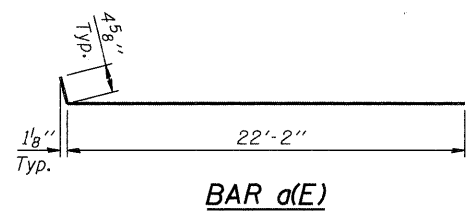
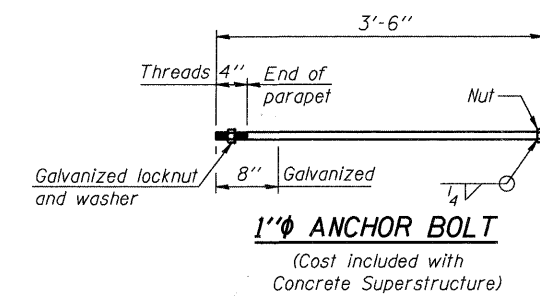


* Tilt #9 b1(E) bars as required to maintain clearance.
 *** Cost included with Concrete Superstructure.

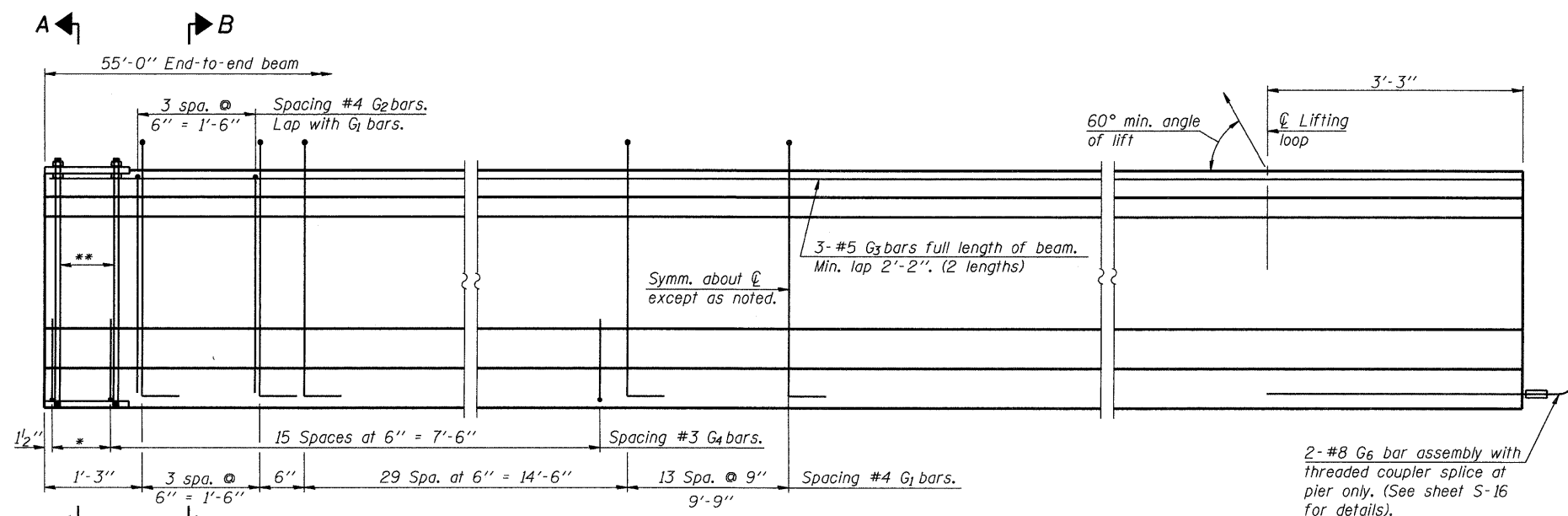


**TWO APPROACHES
 BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	100	#4	22'-7"	U
a1(E)	184	#5	23'-2"	—
a2(E)	48	#6	6'-0"	—
b(E)	84	#4	29'-8"	—
b1(E)	194	#9	29'-9"	U
b2(E)	4	#4	14'-8"	—
b3(E)	4	#4	14'-9"	—
d(E)	68	#5	5'-7"	U
d1(E)	68	#5	7'-11"	U
e(E)	32	#4	14'-8"	—
e1(E)	4	#8	14'-8"	—
t(E)	172	#4	10'-0"	—
w(E)	160	#5	22'-6"	—
Concrete Superstructure		Cu. Yd.	133.9	
Concrete Structures		Cu. Yd.	26.6	
Reinforcement Bars, Epoxy Coated		Pound	34,090	
Protective Coat		Sq. Yd.	300	
Bridge Deck Grooving		Sq. Yd.	253.3	



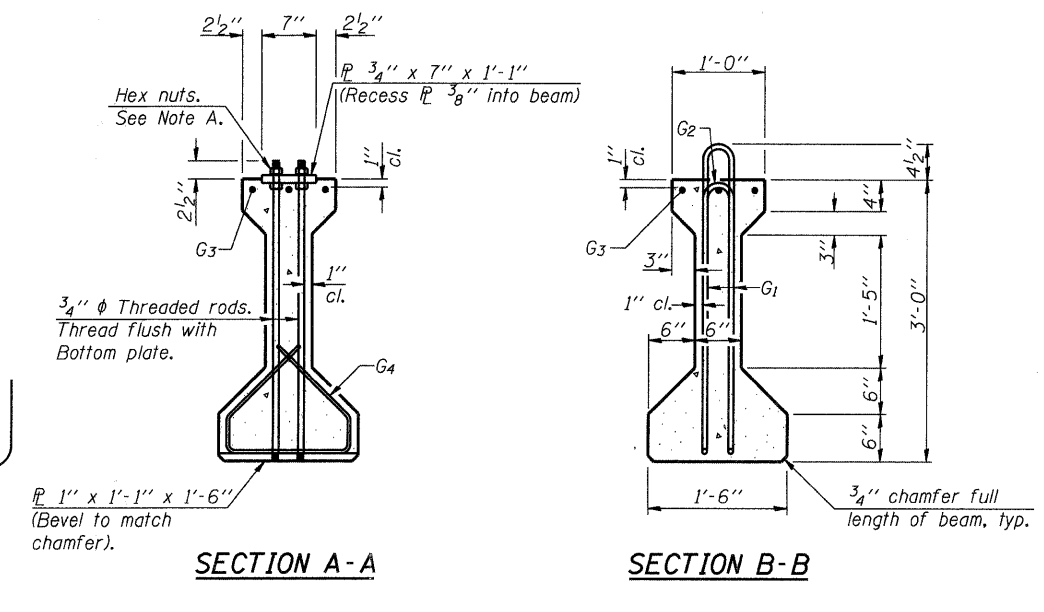
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ELEVATION OF BEAM
(Showing reinforcement & dimensions)

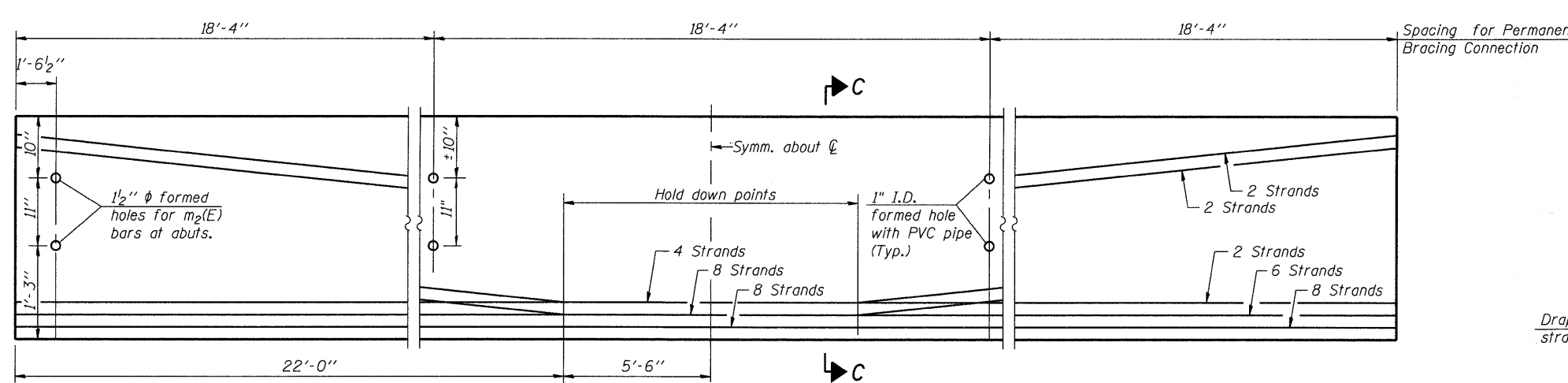
* 3 spaces at 3" = 9".
** 4-3/4" φ threaded dowel rods at 3" cts., Each Face

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

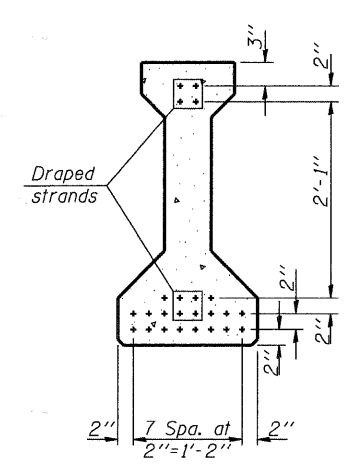


SECTION A-A

SECTION B-B



ELEVATION OF BEAM
(Showing prestressing steel)



SECTION C-C

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

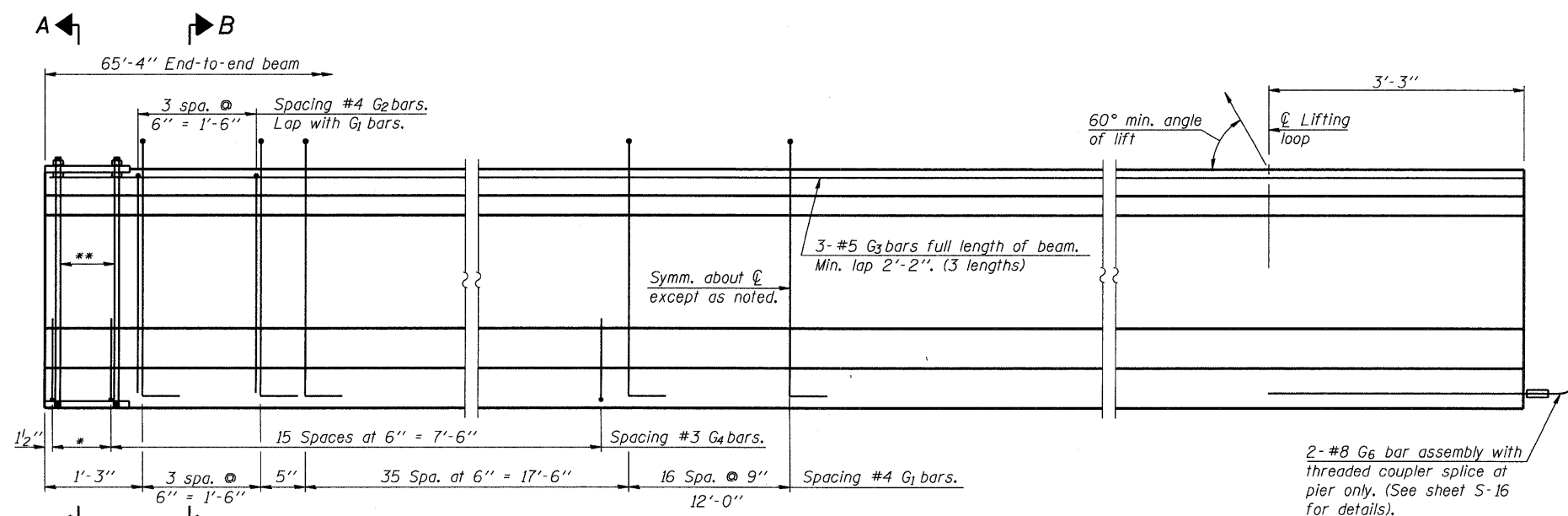
Bar	No.	Size	Length	Shape
G ₁	94	#4	7'-5"	□
G ₂	8	#4	5'-8"	□
G ₃	6	#5	28'-6"	—
G ₄	38	#3	4'-1"	△
G ₆	2	#8	6'-6"	⌋

***For information only

Notes:
See sheet S-16 for additional details and Bill of Material.
Required release strength, f'ci, shall be 6000 psi.

FILE NAME = \\naschj1p207\p60095873\p60095873\06_cad\981_drawing\sheet\structure\056-3177_60095873_S14_Beam_Details.dwg

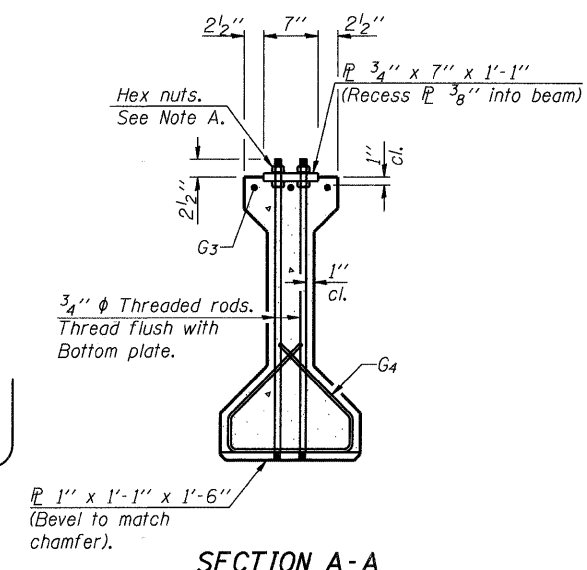
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	PLOT DATE = 5/28/2009	CHECKED - ATB	REVISED -				CONTRACT NO. 63218				
		DATE - 3/18/2009	REVISED -				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



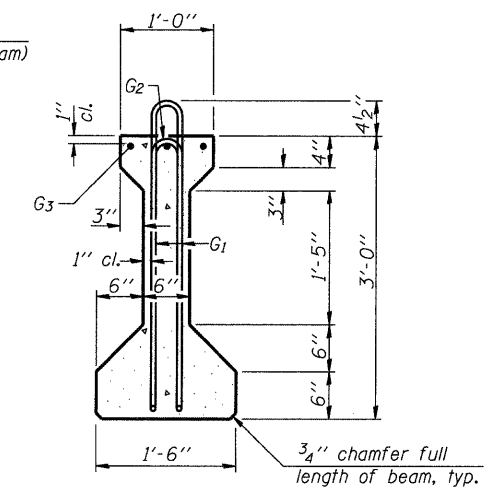
ELEVATION OF BEAM
(Showing reinforcement & dimensions)

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

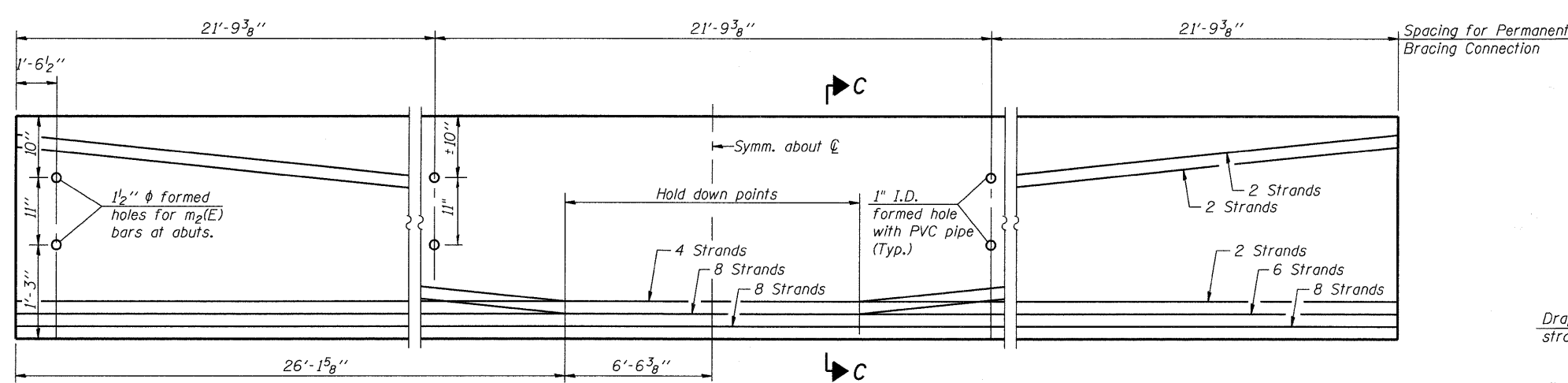
Note A:
Hex nuts (top and bottom) with lock washers (top). Only tighten sufficiently to compress lock washers.



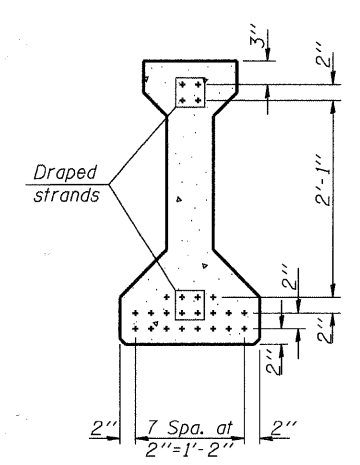
SECTION A-A



SECTION B-B



ELEVATION OF BEAM
(Showing prestressing steel)



SECTION C-C

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

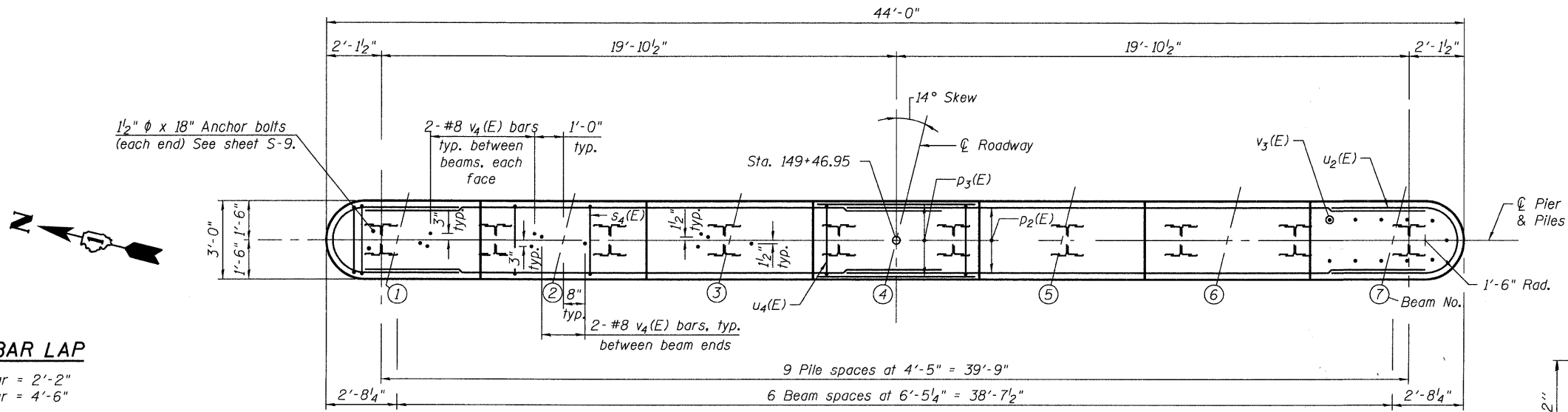
Bar	No.	Size	Length	Shape
G1	112	#4	7'-5"	⊏
G2	8	#4	5'-8"	⊏
G3	9	#5	23'-3"	—
G4	38	#3	4'-1"	⊏
G6	2	#8	6'-6"	⊏

***For information only

Notes:
See sheet S-16 for additional details and Bill of Material.
Required release strength, f'ci, shall be 6000 psi.

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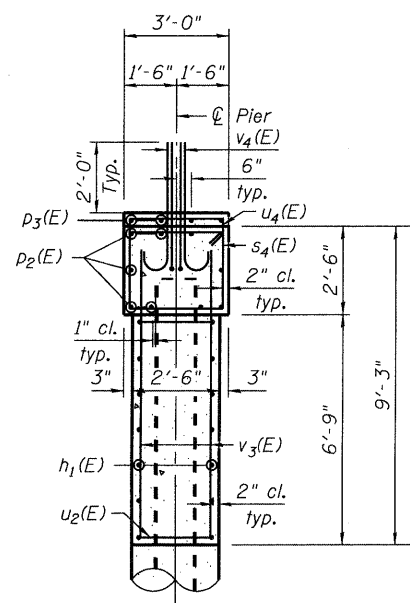
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	DATE - 3/18/2009	DATE -	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
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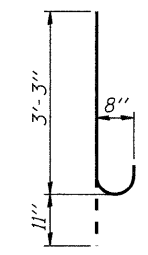
TOP PLAN

MIN. BAR LAP

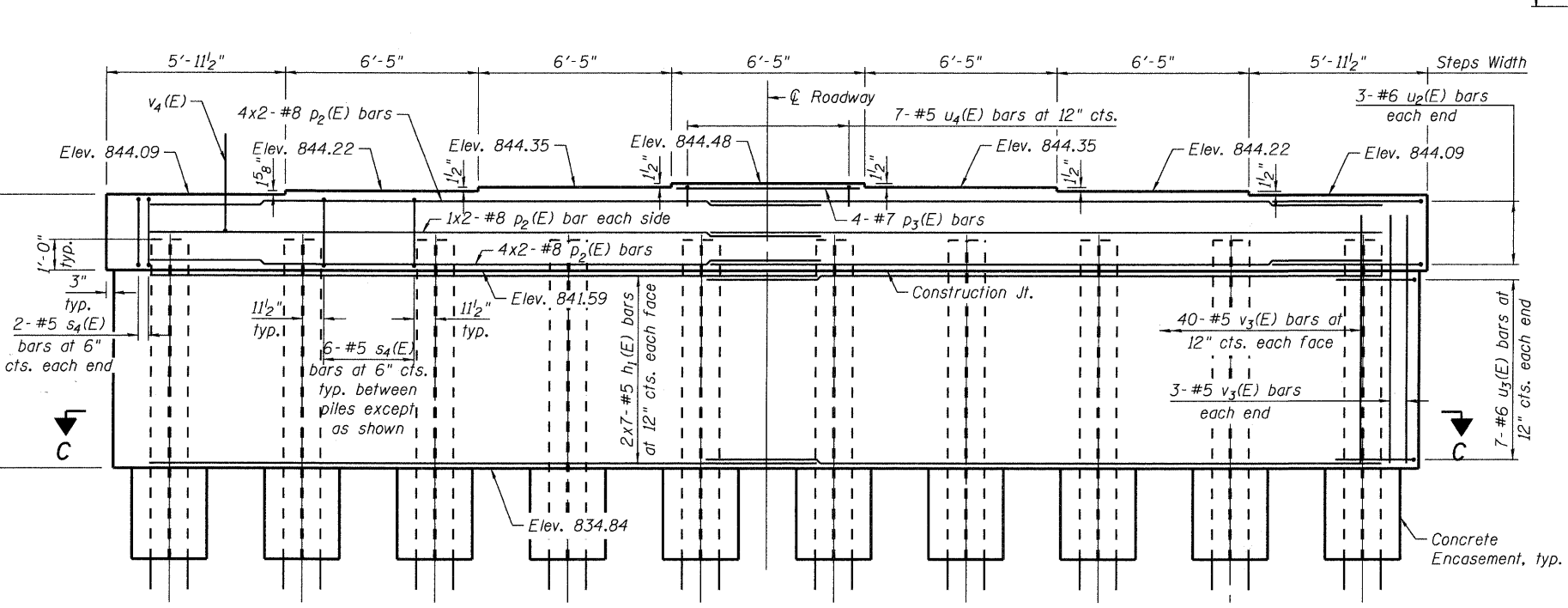
- #5 bar = 2'-2"
- #8 bar = 4'-6"



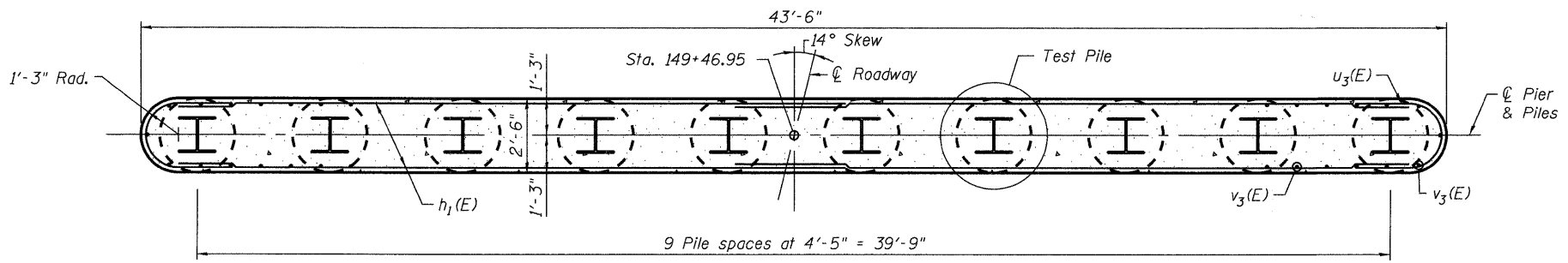
END VIEW



BAR v4(E)



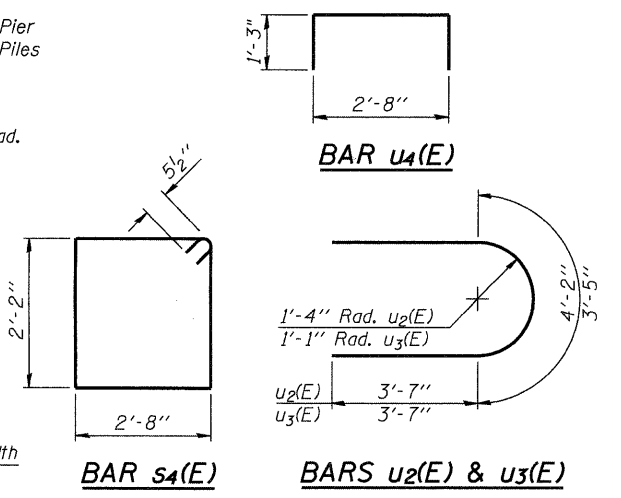
ELEVATION
(Looking East)



SECTION C-C

PILE DATA

Type:	HP 14 x 89 w/ Pile Shoes
Nominal Required Bearing:	704 kips
Factored Resistance Available:	296 kips
Estimated Length:	61 ft.
Number of Production Piles:	9
Number of Test Piles:	1



BILL OF MATERIAL

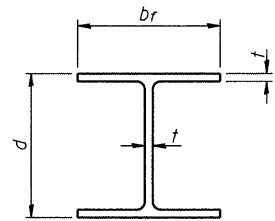
Bar	No.	Size	Length	Shape
h1(E)	28	#5	21'-7"	—
p2(E)	20	#8	22'-3"	—
p3(E)	4	#7	6'-1"	—
s4(E)	58	#5	10'-7"	□
u2(E)	6	#6	11'-4"	U
u3(E)	14	#6	10'-7"	U
u4(E)	7	#5	5'-2"	U
v3(E)	86	#5	8'-7"	—
v4(E)	36	#8	4'-2"	—
Structure Excavation		Cu. Yd.	11.1	
Concrete Structures		Cu. Yd.	39.7	
Concrete Encasement		Cu. Yd.	5.5	
Reinforcement Bars, Epoxy Coated		Pound	4,050	
Furnishing Steel Piles, HP 14x89		Foot	619	
Driving Piles		Foot	619	
Pile Shoes		Each	10	
Test Piles		Each	1	
Steel HP 14x89		Each	1	
Underwater Structure Excavation Protection - Location 1		Each	1	

NOTES:

- Pour steps monolithically with cap.
- Space reinforcement in cap to miss anchor bolts.
- For details of piles and Concrete Encasement, see sheet S-20.
- Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

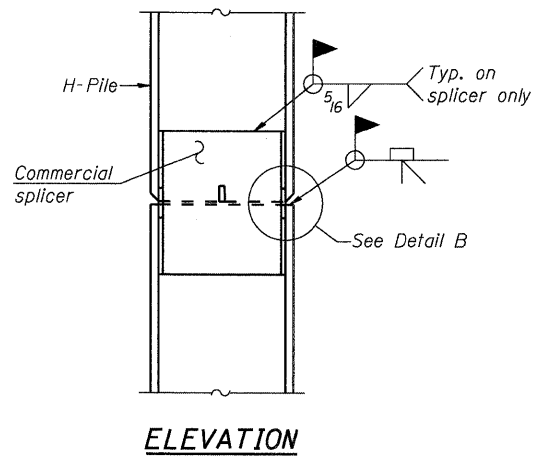
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	PLOT DATE = 5/28/2009	CHECKED - ATB	REVISED -			CONTRACT NO. 63218				
		DATE - 3/18/2009	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
						SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.

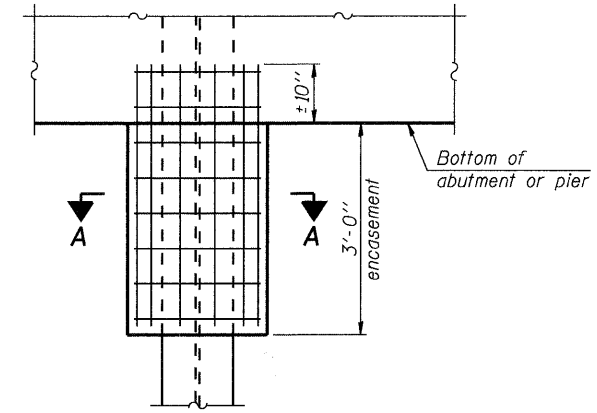


STEEL PILE TABLE

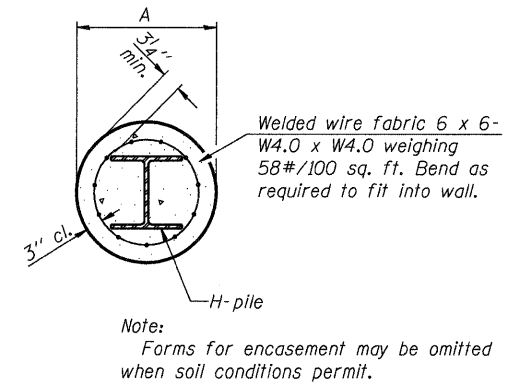
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x89	13 ⁷ / ₈ "	14 ³ / ₄ "	5 ⁸ / ₈ "	30"
HP 14x73	13 ⁵ / ₈ "	14 ⁵ / ₈ "	1 ¹ / ₂ "	30"



ELEVATION

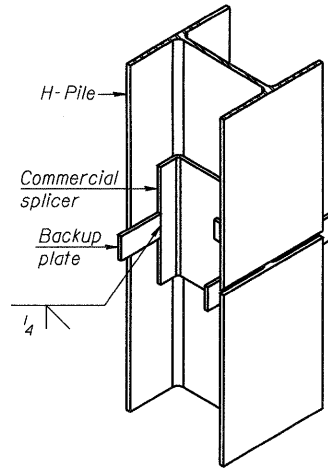


ELEVATION

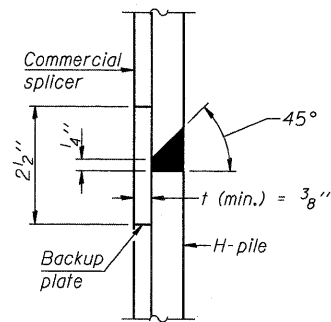


SECTION A-A

PILE ENCASEMENT

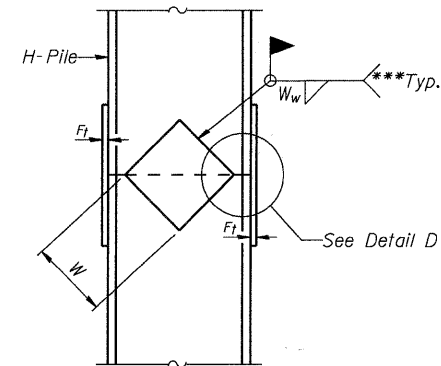


ISOMETRIC VIEW

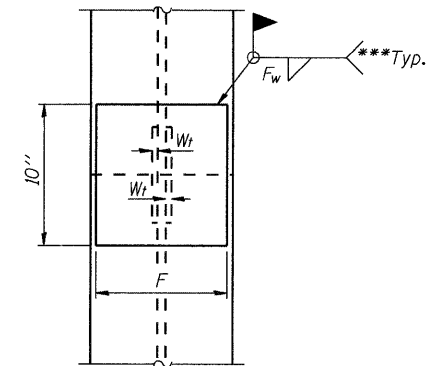


DETAIL "B"

WELDED COMMERCIAL SPLICE

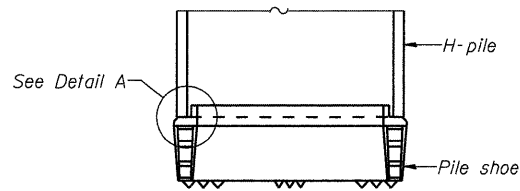


ELEVATION

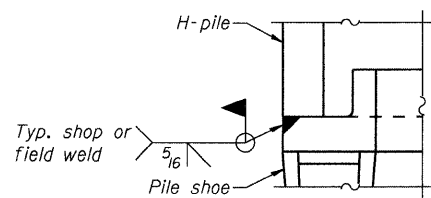


END VIEW

WELDED PLATE FIELD SPLICE

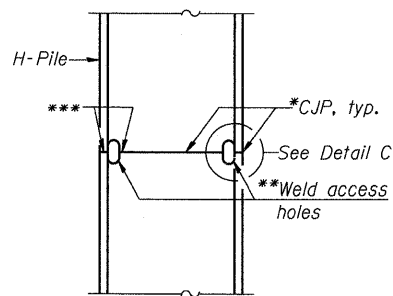


ELEVATION

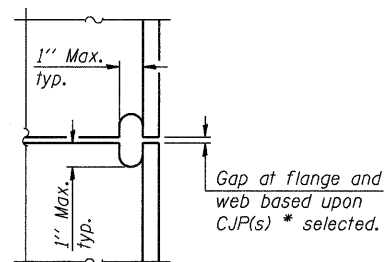


DETAIL A

H-PILE SHOE ATTACHMENT

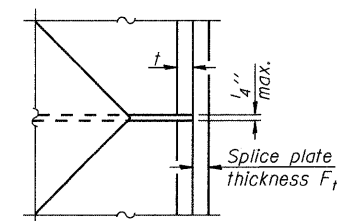


ELEVATION



DETAIL C

COMPLETE PENETRATION WELD SPLICE



DETAIL D

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x89	12 ¹ / ₂ "	3 ⁴ / ₈ "	1 ¹ / ₁₆ "	7 ³ / ₄ "	5 ⁸ / ₈ "	1 ¹ / ₂ "
HP 14x73	12 ¹ / ₂ "	5 ⁸ / ₈ "	9 ⁹ / ₁₆ "	7 ³ / ₄ "	5 ⁸ / ₈ "	1 ¹ / ₂ "

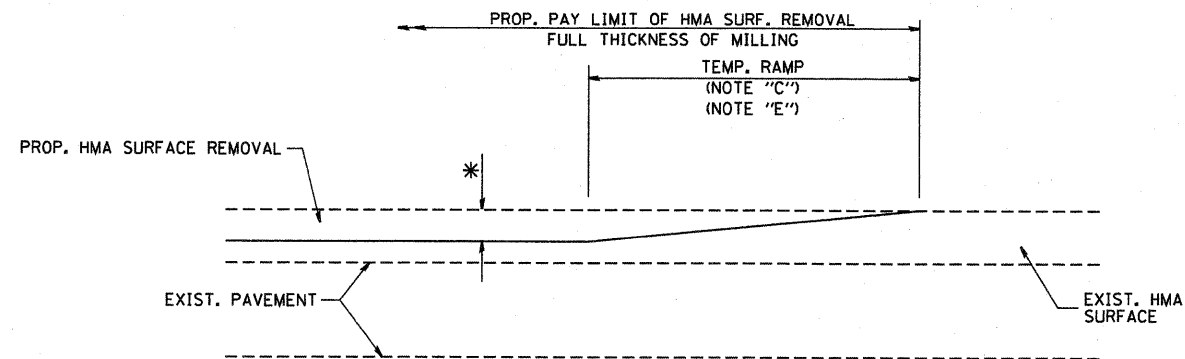
* Use joint conforming to Figure 3.4 in AWS D1.1, Structure Welding Code - Steel.

** Preparation per Fig. 5.2 in AWS D1.1, Structure Welding Code - Steel.

*** Interrupt welds 1/4" from end of each pile.

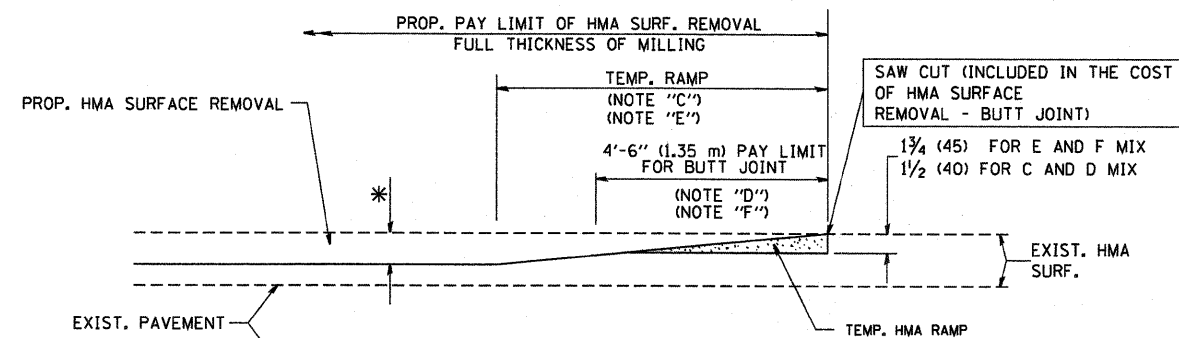
Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

FILE NAME = \\nuchaj\p207\p62095873\p62095873\980_cad\981_dr\enrg\sheet\structural\056-3177_62095873_520_Pile_Details.sht



MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

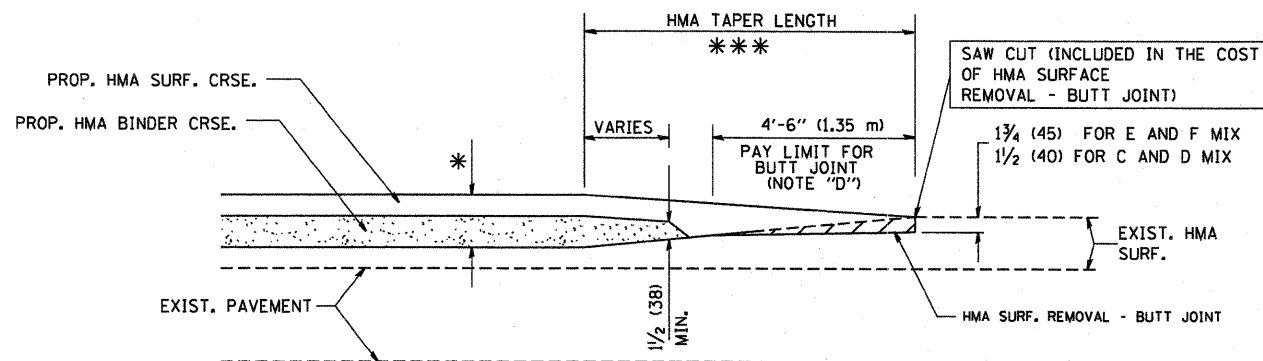
OPTION 1



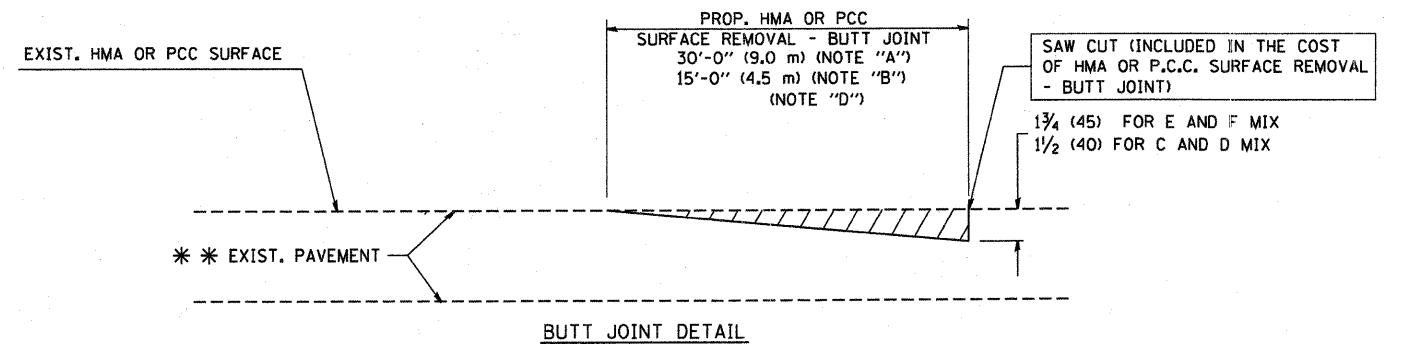
HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

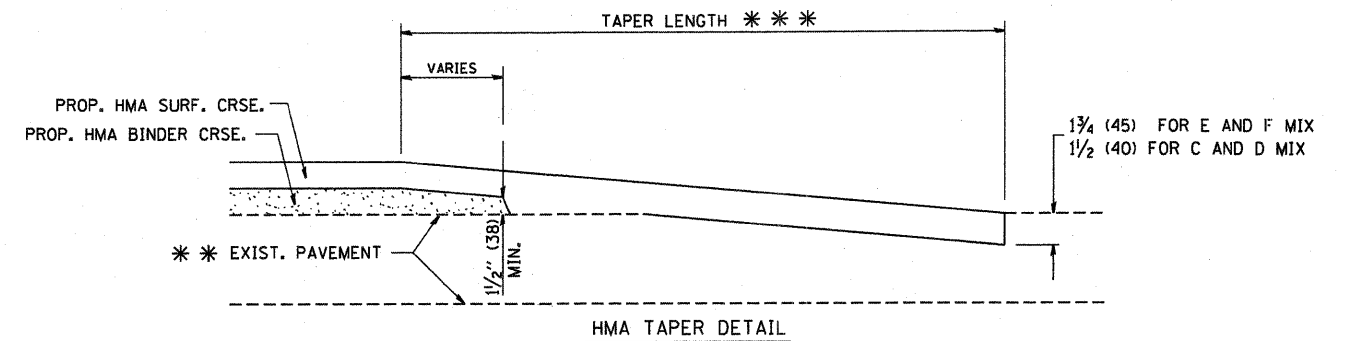
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



TYPICAL BUTT JOINT AND HMA TAPER
FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- ** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

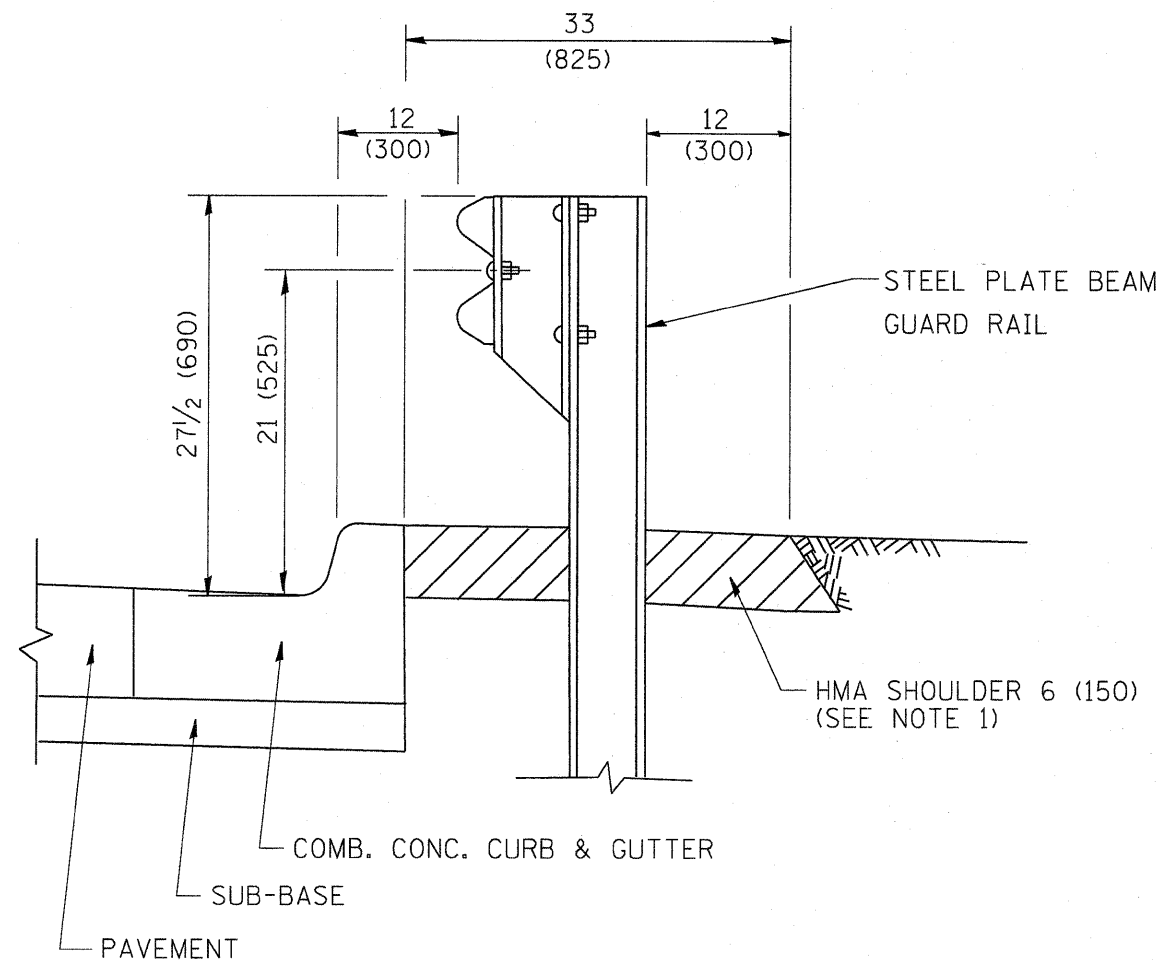
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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		DRAWN -	REVISED - A. ABBAS 03-21-97
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	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0031	06-00323-00-B2	MCHEMERY	53	43
BD400-05 BD32		CONTRACT NO. 65218		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

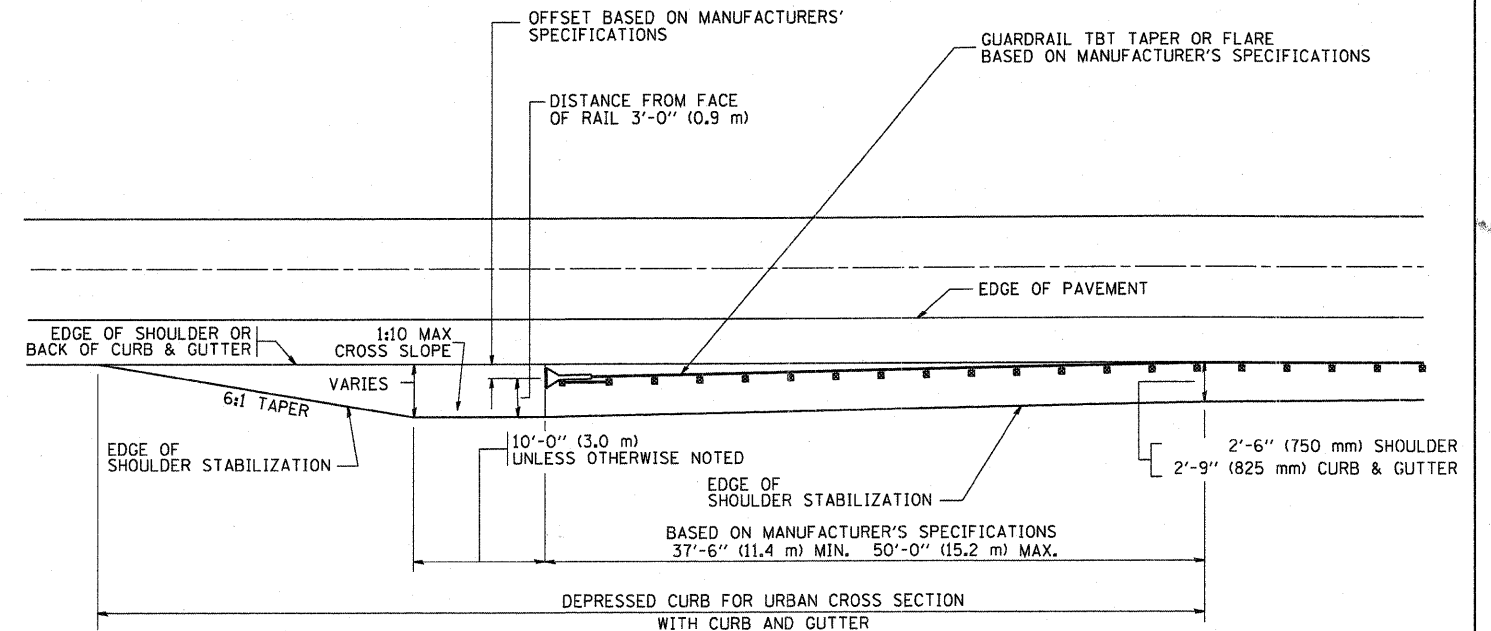


- NOTES: 1. THE HMA SHOULDER SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL
2. GUARD RAIL MAY BE PLACED AT THE BACK OF CURB WHEN DIRECTED BY THE ENGINEER.

BASIS OF PAYMENT: HMA SHOULDER 6 (150) WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SHOULDER 6" (150 mm)".

STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

**DETAILS FOR STEEL PLATE BEAM
GUARD RAIL ADJACENT TO CURB AND GUTTER
[FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]**



STABILIZATION AT TBT TY. 1 SPL.

TBT = TRAFFIC BARRIER TERMINAL
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

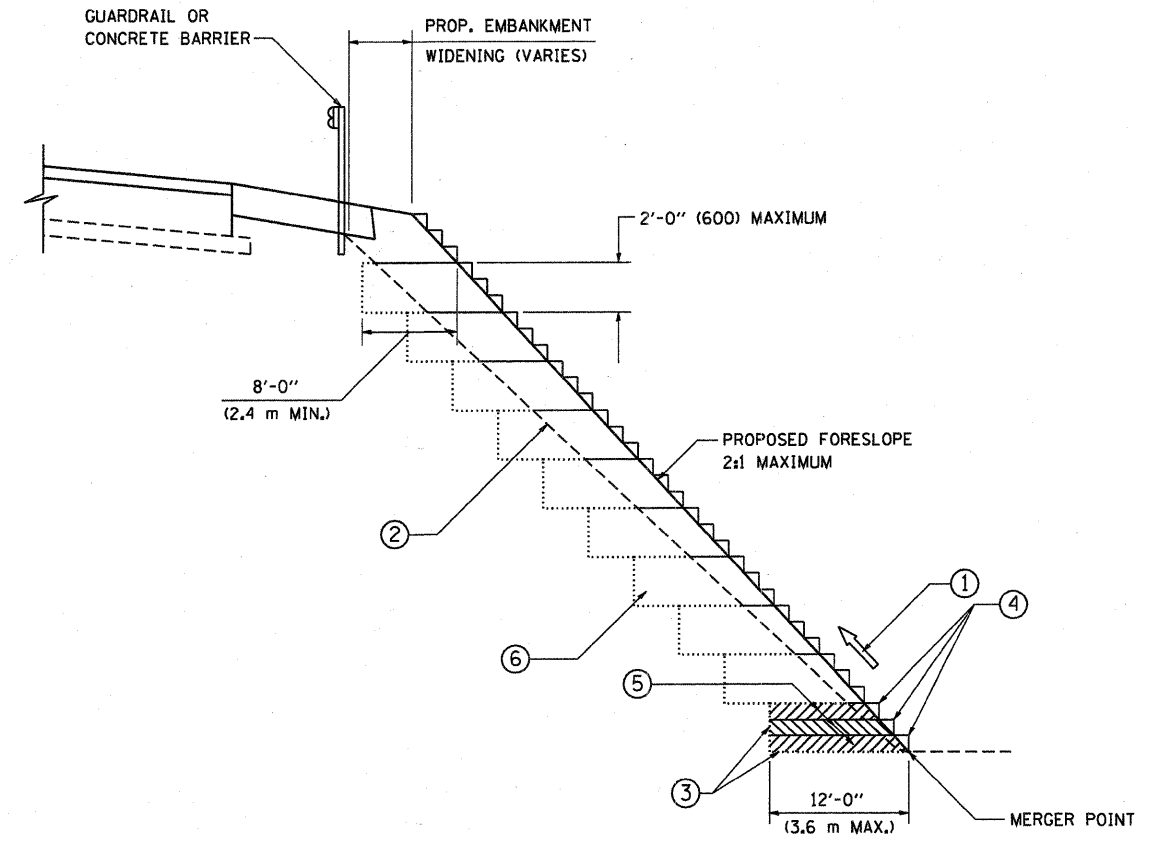
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		DRAWN -	REVISED - A. ABBAS 03-21-97
		CHECKED -	REVISED - E. GOMEZ 08-28-00
		DATE - 09-22-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR STEEL PLATE BEAM GUARD RAIL ADJACENT
TO CURB AND GUTTER STABILIZATION AT TBT TY 1 SPL.**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0031	06-00323-00-BR	MCHENRY	53	44
BD600-10 (BD 34)		CONTRACT NO. 6321B		
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				



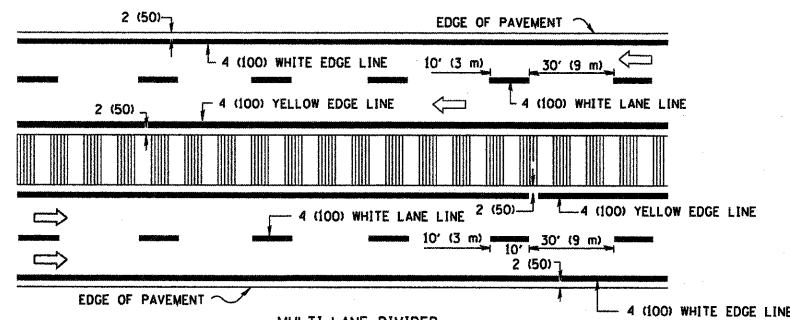
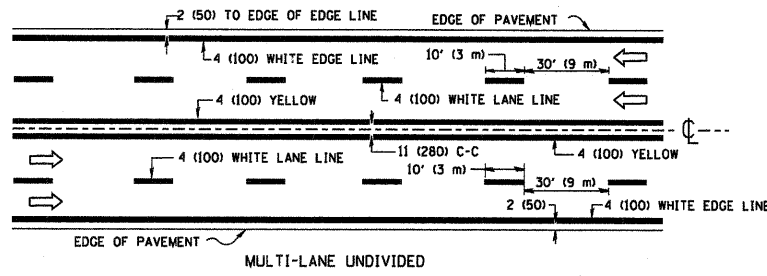
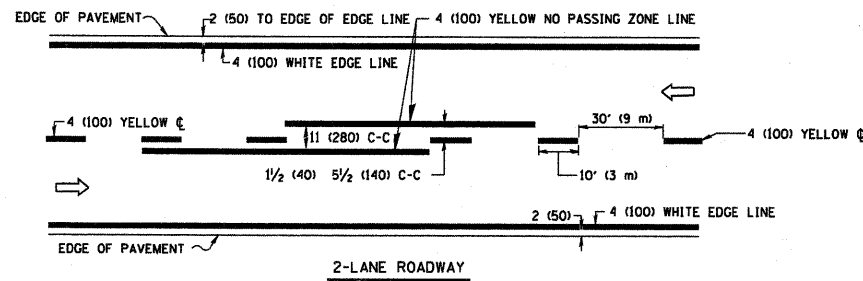
**TYPICAL BENCHING DETAIL
FOR EMBANKMENT**

NOTES:

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

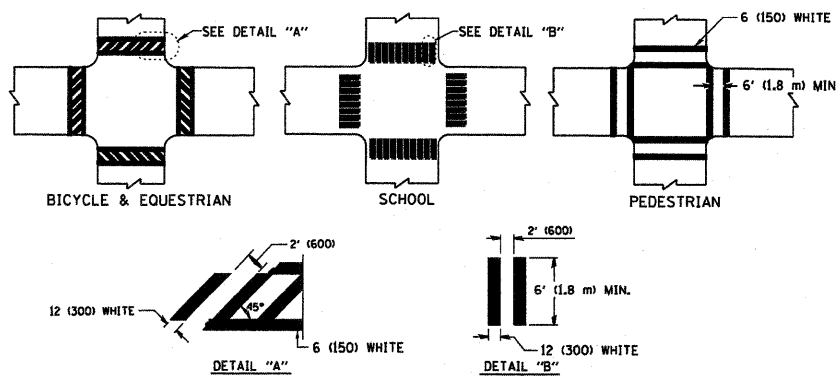
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME = W:\diststd\22x34\bd51.dgn	USER NAME = gag11enob1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BENCHING DETAIL FOR EMBANKMENT WIDENING			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT DATE = 1/4/2008	CHECKED - S.E.B.	REVISED -			SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.			BD-51 CONTRACT NO. 63218				
	DATE - 06-16-04	REVISED -			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							

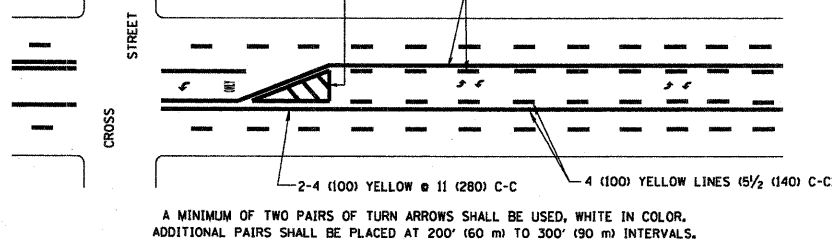
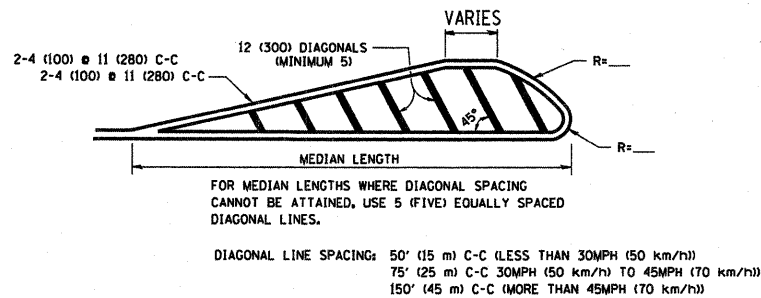
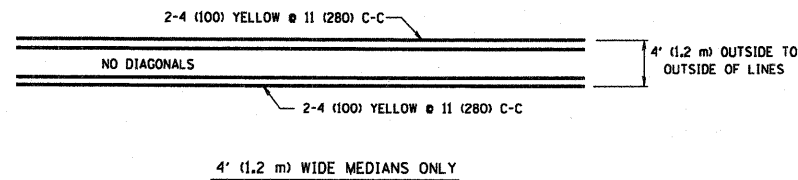


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

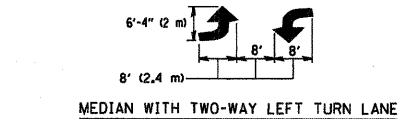
TYPICAL LANE AND EDGE LINE MARKING



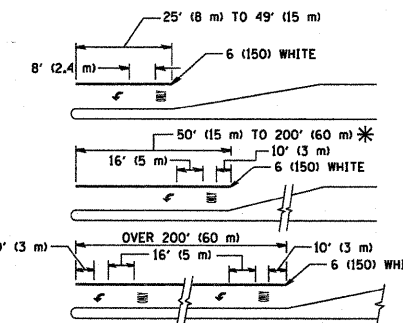
TYPICAL CROSSWALK MARKING



TYPICAL PAINTED MEDIAN MARKING

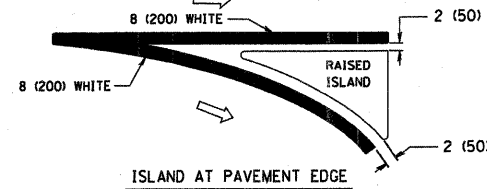
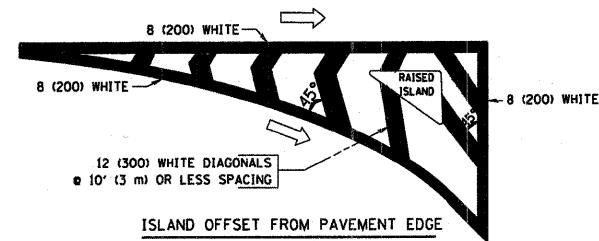


TYPICAL TURN LANE MARKING



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
 * 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 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 FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 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 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE 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.
CORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

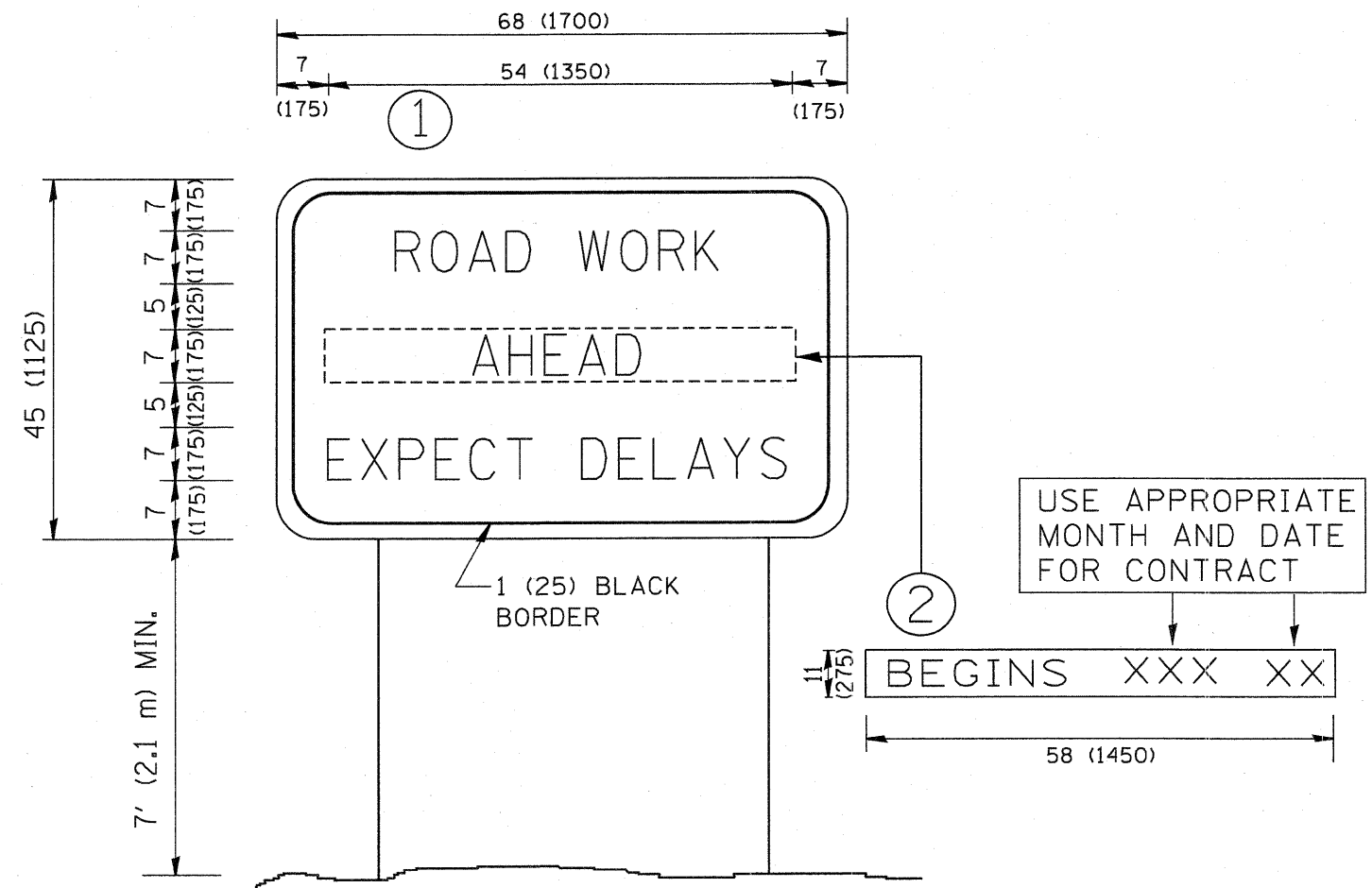
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

FILE NAME = W:\data\d\22x34\to13.dgn	USER NAME = gaglianob	DESIGNED - EVERS	REVISED - T. RAMMACHER 10-27-94
	PLOT SCALE = 50,000' / IN.	DRAWN - A. HOUSEH 10-09-96	REVISED - A. HOUSEH 10-09-96
	PLOT DATE = 1/4/2008	CHECKED - A. HOUSEH 10-17-96	REVISED - A. HOUSEH 10-17-96
		DATE - 03-19-90	REVISED - T. RAMMACHER 01-06-00

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS		0031	06-00323-00-BR	MCHENRY	53	46
SCALE: NONE		TC-13		CONTRACT NO. 63218		
SHEET NO. 1 OF 1 SHEETS		STA. TO STA.		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		



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.

FILE NAME = W:\diststd\22x34\to22.dgn	USER NAME = geglennobt	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50.000 / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07

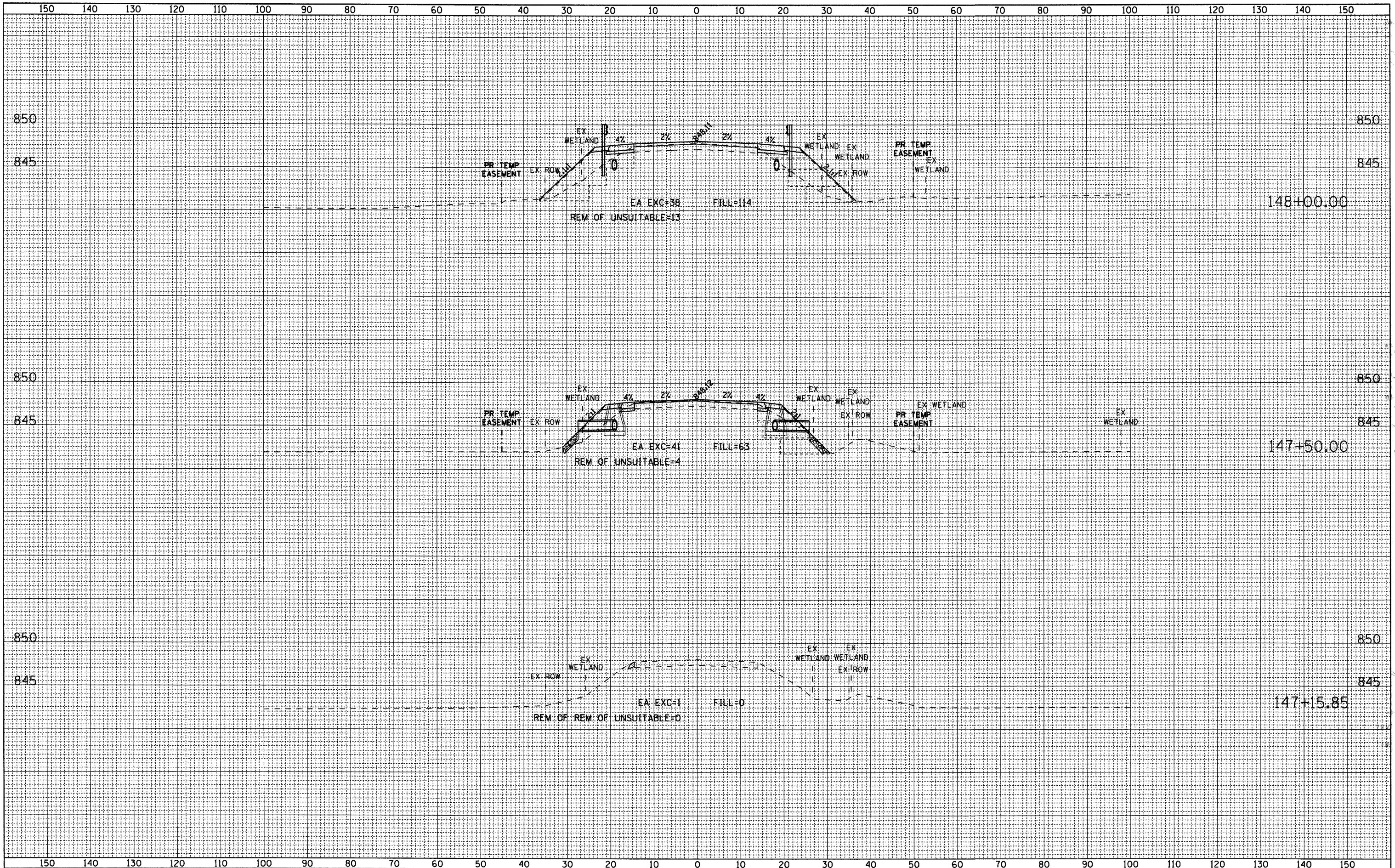
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ARTERIAL ROAD INFORMATION SIGN	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0031	06-00323-00-02	MC HENRY	53	47
TC-22			CONTRACT NO. 63218	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____

DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____



USER NAME = holmann
 FILE NAME = D:\60095873-sht-xssht.dgn
 PLOT SCALE = 10.00' / IN.
 PLOT DATE = 5/22/2009

DESIGNED - NJH
 DRAWN - NJH
 CHECKED -
 DATE - MARCH 5, 2009

REVISED -
 REVISED -
 REVISED -
 REVISED -

**MCHENRY COUNTY
 DIVISION OF TRANSPORTATION**

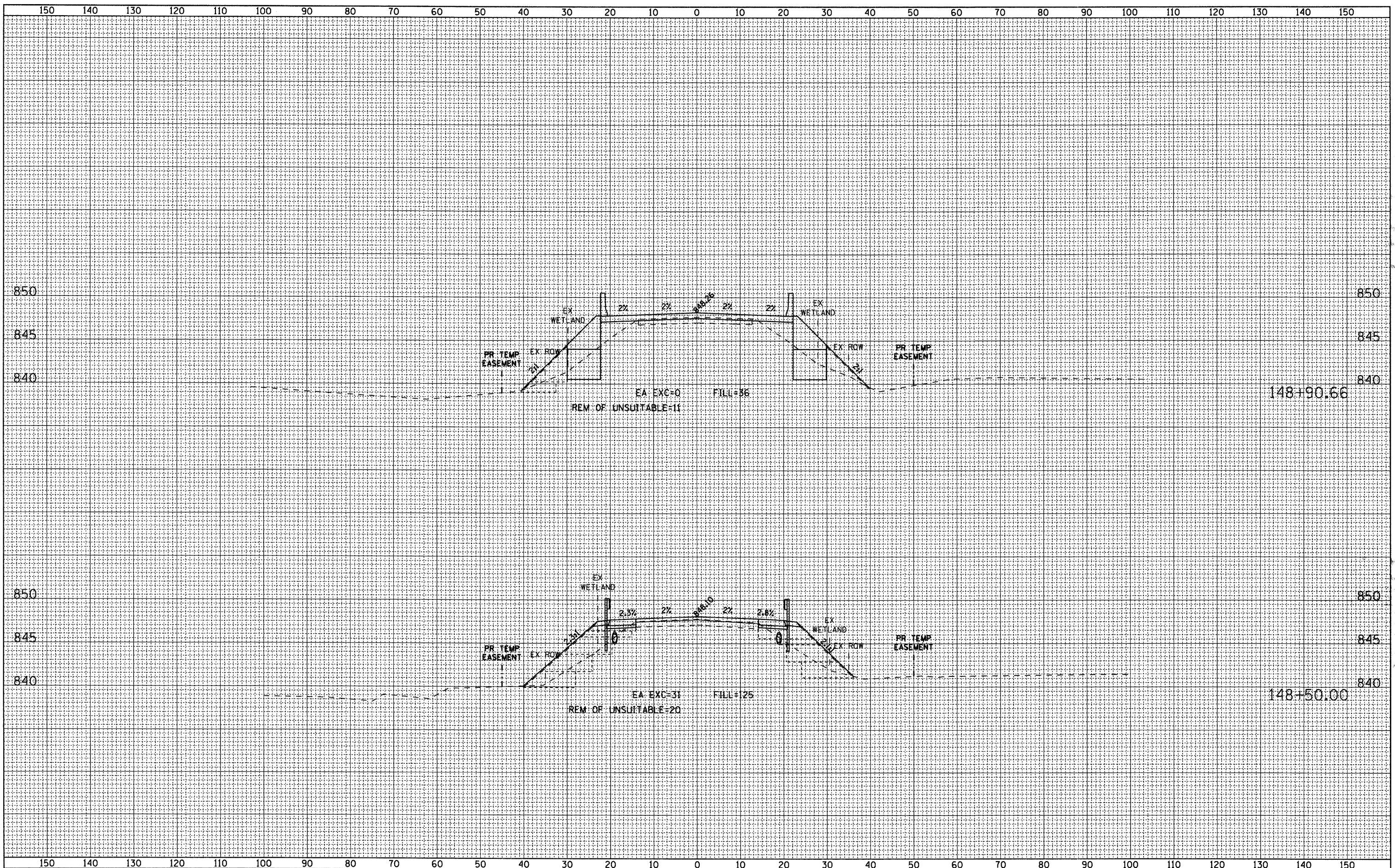
CROSS SECTION SHEETS - KISHWAUKEE VALLEY ROAD

H: 1"=10', V: 1"=5' SHEET NO. 1 OF 4 SHEETS STA. 147+15.85 TO STA. 148+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0031	06-00323-00-BR	MCHENRY	53	48
CONTRACT NO. 63218				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____

DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____



AECOM

USER NAME = holmann
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 PLOT DATE = 5/22/2009

DESIGNED - NJH
 DRAWN - NJH
 CHECKED -
 DATE - MARCH 5, 2009

REVISED -
 REVISED -
 REVISED -
 REVISED -

**MCHENRY COUNTY
 DIVISION OF TRANSPORTATION**

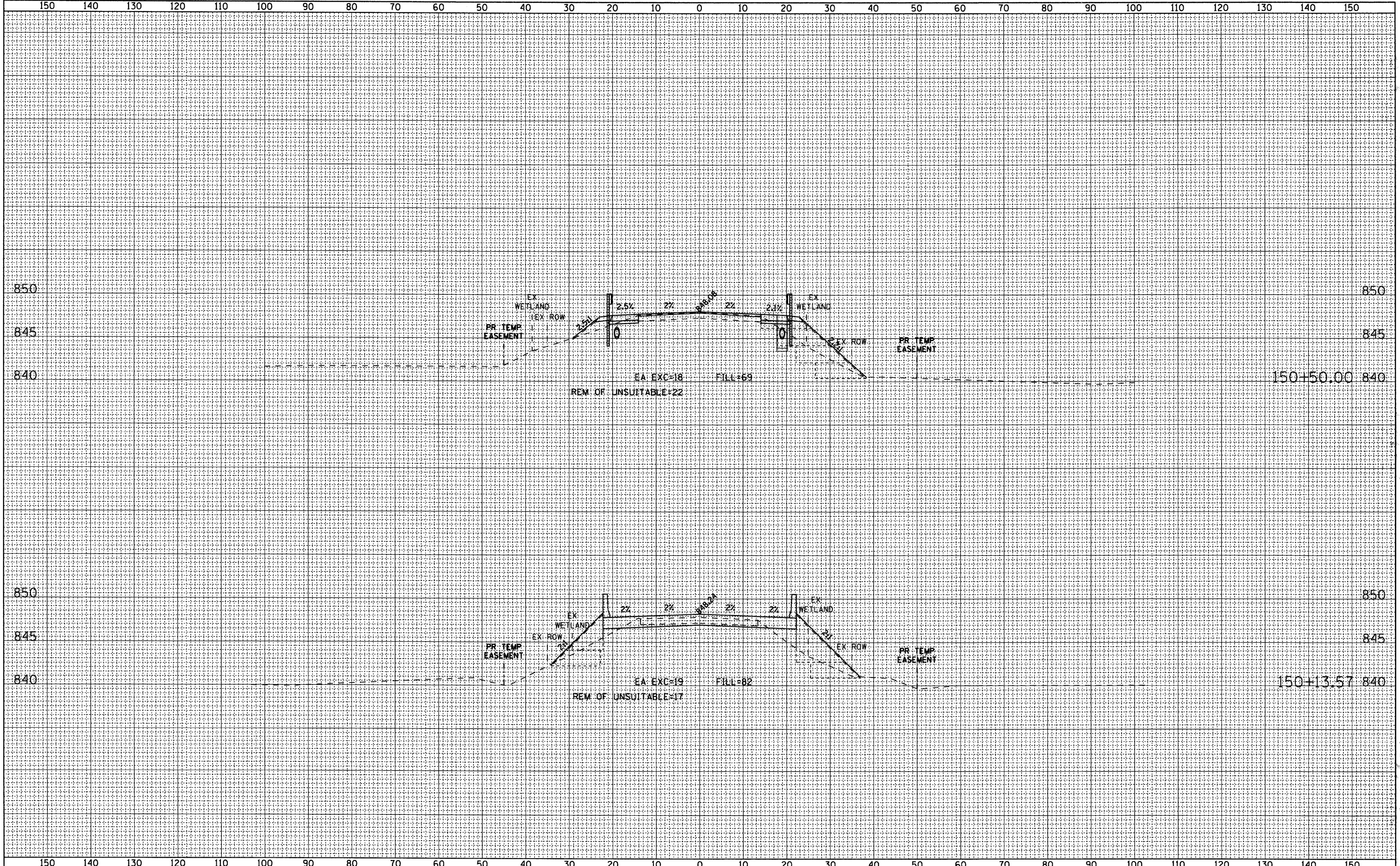
CROSS SECTION SHEETS - KISHWAUKEE VALLEY ROAD

H: 1"=10', V: 1"=5' SHEET NO. 2 OF 4 SHEETS STA. 148+50.00 TO STA. 148+90.66

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0031	06-00323-00-BR	MCHENRY	53	49
CONTRACT NO. 63218				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE	
BY	
SURVEYED	
PLOTTED	
DATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
DATE	
AREAS	
CHECKED	
NO.	



AECOM

USER NAME = holmann	DESIGNED - NJH	REVISED -
FILE NAME D:\60095873-sht-xshd.dgn	DRAWN - NJH	REVISED -
PLOT SCALE = 10.00' / IN.	CHECKED -	REVISED -
PLOT DATE = 5/22/2009	DATE - MARCH 5, 2009	REVISED -

**MCHENRY COUNTY
DIVISION OF TRANSPORTATION**

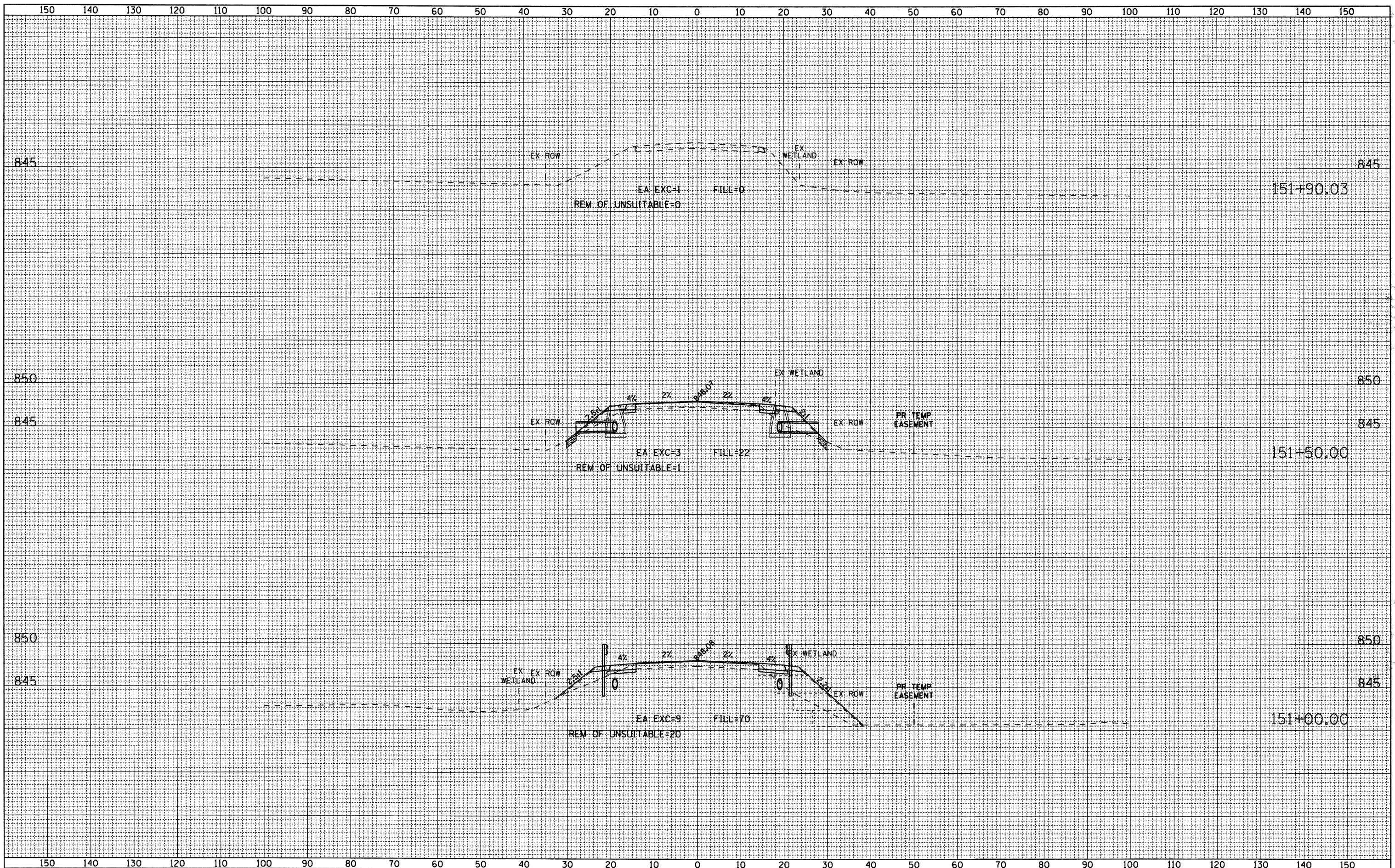
CROSS SECTION SHEETS - KISHWAUKEE VALLEY ROAD

H_v 1"=10', V_v 1"=5' SHEET NO. 3 OF 4 SHEETS STA. 150+13.57 TO STA. 150+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0031	06-00323-00-BR	MCHENRY	53	50
CONTRACT NO. 63218				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK DATE _____
 AREAS CHECKED _____
 NO. _____

DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK DATE _____
 AREAS CHECKED _____
 NO. _____



USER NAME = holmann
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 PLOT DATE = 5/22/2009

DESIGNED - NJH
 DRAWN - NJH
 CHECKED -
 DATE - MARCH 5, 2009

REVISED -
 REVISED -
 REVISED -
 REVISED -

**MCHENRY COUNTY
 DIVISION OF TRANSPORTATION**

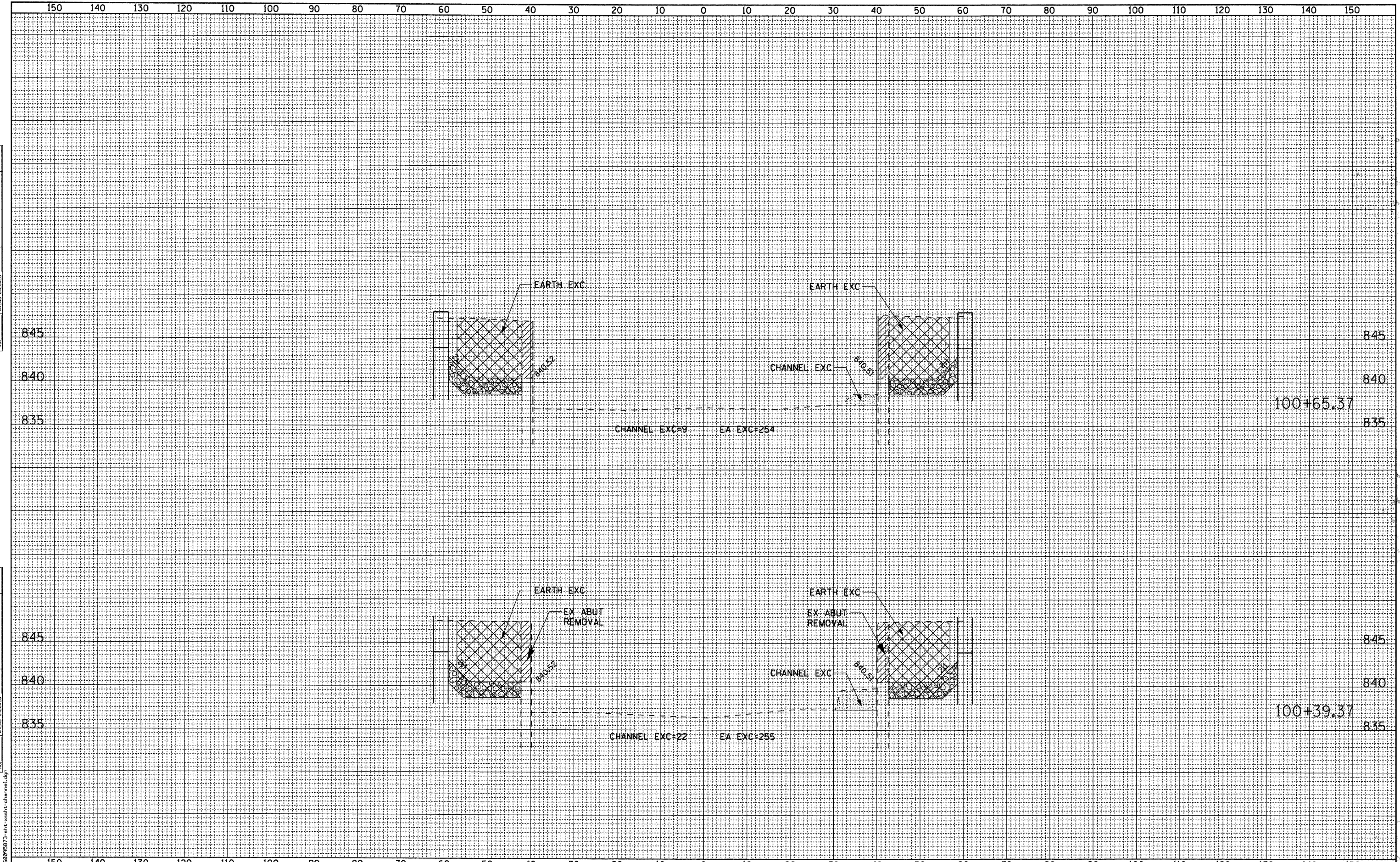
CROSS SECTION SHEETS - KISHWAUKEE VALLEY ROAD

H: 1"=10', V: 1"=5' SHEET NO. 4 OF 4 SHEETS STA. 151+00.00 TO STA. 151+90.03

F.A.S. RTE. 0031	SECTION 06-00323-00-BR	COUNTY MCHENRY	TOTAL SHEETS 53	SHEET NO. 51
CONTRACT NO. 63218				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

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



FILE NAME = D:\6898\B73-ant-ssht-channel.dgn

AECOM

USER NAME = holmann	DESIGNED - NJH	REVISED -
	DRAWN - NJH	REVISED -
PLOT SCALE = 10.00' / IN.	CHECKED -	REVISED -
PLOT DATE = 5/22/2009	DATE - MARCH 5, 2009	REVISED -

**MCHENRY COUNTY
DIVISION OF TRANSPORTATION**

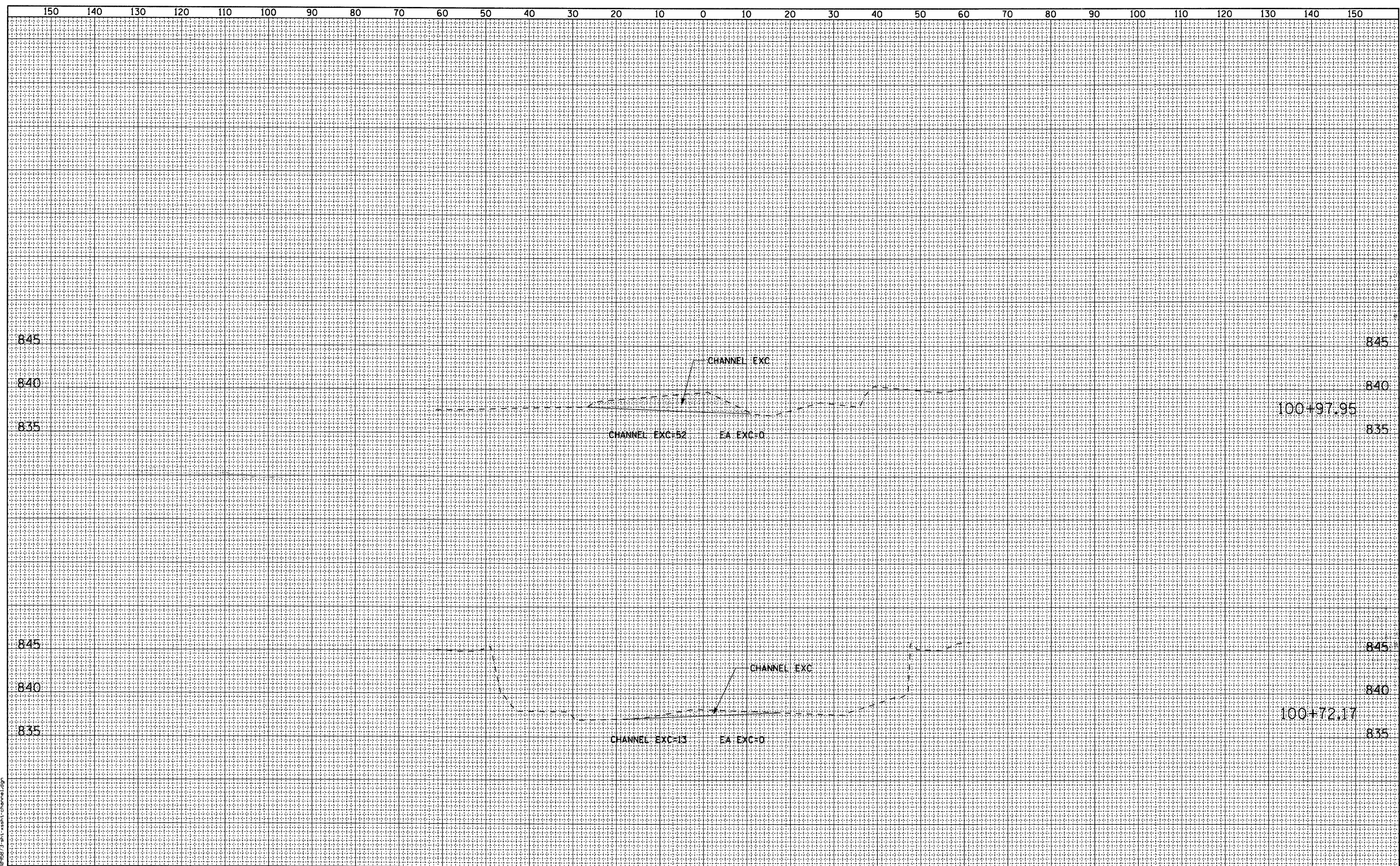
CROSS SECTION SHEETS - KISHWAUKEE RIVER

H: 1"=10', V: 1"=5' SHEET NO. 1 OF 2 SHEETS STA. 100+39.37 TO STA. 100+65.37

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0031	06-00323-00-BR	MCHENRY	53	52
CONTRACT NO. 63218				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

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

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



FILE NAME = D:\6009873-ht-xsh-cha-hr-channel.dgn