

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00340-00-BR	MCHENRY	46	1
FED. ROAD DIST. NO. 1		ILLINOIS CONTRACT NO.	63552	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PLANS FOR

PROPOSED FEDERAL-AID HIGHWAY

TR 117 (DUNHAM ROAD)
OVER RUSH CREEK
SECTION 07-00340-00-BR
PROJECT NO: BHM-8003(857)
BRIDGE REPLACEMENT
MCHENRY COUNTY
C-91-013-08

FOR INDEX OF SHEETS, SEE SHEET NO. 2

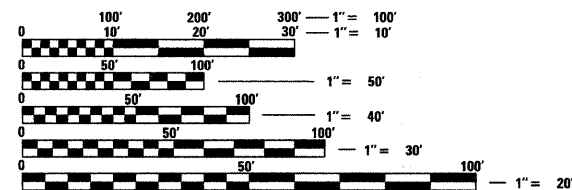
DESIGN DESIGNATION

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

TRAFFIC DATA

2005 ADT = 350
2030 ADT = 700

PROJECT LOCATED IN
DUNHAM TOWNSHIP



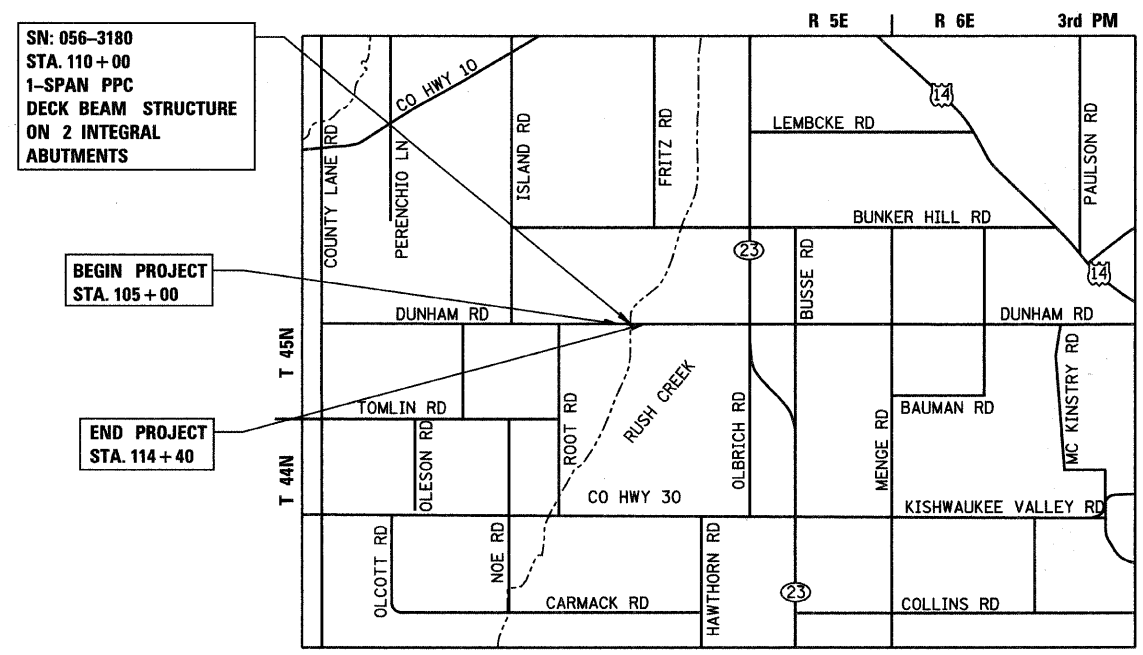
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

CONTRACT NO. 63552



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



SN: 056-3180
STA. 110+00
1-SPAN PPC
DECK BEAM STRUCTURE
ON 2 INTEGRAL
ABUTMENTS

BEGIN PROJECT
STA. 105+00

END PROJECT
STA. 114+40

THE PROJECT CONSISTS OF
THE REPLACEMENT OF
SN: 056-3110 WITH
SN: 056-3180 OVER RUSH CREEK;
WIDENING AND RECONSTRUCTION
OF DUNHAM ROAD FROM
STA. 105+00 TO STA. 114+40

CARL L. GUTOWSKI
062-057132
LICENSED
PROFESSIONAL
ENGINEER
DATE: 2/9/2011
SEAL EXPIRES: 11/30/2011

ARSALAN M. KHAN
061-008258
LICENSED
PROFESSIONAL
ENGINEER
STRUCTURAL
DATE: 2/9/2011
SEAL EXPIRES: 11/30/2012

LOCATION MAP
1" = 5,000'
GROSS & NET LENGTH OF PROJECT = 940 FT = 0.18 MI.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED 02/08 2011
Joseph Z. Kozlowski
COUNTY OF MCHENRY, COUNTY ENGINEER

PASSED FEBRUARY 24, 2011
Chad A. Heston
DISTRICT 1 ENGINEER OF LOCAL ROAD & STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW FEBRUARY 24, 2011
Diana M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

**PRINTED BY THE AUTHORITY
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

PROGRAM AND OFFICE ENGINEER: CHARLES F. RIDDLE, P.E. (847) 705-4406 SCHAUMBURG, IL.

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STATE STANDARDS

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631031-09	TRAFFIC BARRIER TERMINAL, TYPE 6
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAIL
701901-01	TRAFFIC CONTROL DEVICES

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Ciorba Group, Inc.
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Chicago, Illinois 60656
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USER NAME = espino	DESIGNED - DKD	REVISED -
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PLOT SCALE = 1,0000' / IN.	CHECKED - CLG	REVISED -
PLOT DATE = 2/4/2011	DATE - 02/07/2011	REVISED -

MCHENRY COUNTY DIVISION OF TRANSPORTATION

INDEX OF SHEETS & STATE STANDARDS

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

TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00340-00-BR	MCHENRY	46	2
CONTRACT NO. 63552			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

GENERAL NOTES

1. ALL UNDERGROUND UTILITY LOCATIONS, INCLUDING BUT NOT LIMITED TO, SANITARY AND STORM SEWERS, WATER MAINS, AND THEIR SERVICE LINES, SHOWN ON THE PLANS ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO HAVE THE RESPECTIVE UTILITY COMPANIES FIELD LOCATE ALL UTILITIES, ASCERTAIN THEIR STATUS AND ADJUST OR RELOCATE THESE UTILITIES, AS NECESSARY, PRIOR TO STARTING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. AT (800) 892-0123 AND ALL PUBLIC AND PRIVATE UTILITIES BEFORE STARTING CONSTRUCTION.

- A. AT&T
DAVID SAINT GERMAIN
2408 8TH AVENUE ROCKFORD, IL 61108
815-394-7297
- B. COMED
MIKE LENNOX
123 ENERGY AVENUE ROCKFORD, IL 61109
815-490-2869
- C. NICOR GAS
CONSTANCE LANE
1844 FERRY ROAD NAPERVILLE, IL 60563
630-388-3830

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER OR OWNER. THIS WORK SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.

3. PROCUREMENT OF ALL NECESSARY PERMITS, AND PAYMENT THEREOF, SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS PRIOR TO BIDDING ON THIS PROJECT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR FAILURE TO VERIFY EXISTING DIMENSIONS OR CONDITIONS.

5. THE CONTRACTOR SHALL LIMIT HIS CONSTRUCTION ACTIVITIES TO THE WORK AREAS DESIGNATED ON THE PLANS. ANY DAMAGE TO AREAS OUTSIDE OF THESE LIMITS SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE TO THE SATISFACTION OF THE ENGINEER.

6. THE CONTRACTOR AT HIS OWN EXPENSE SHALL BE REQUIRED TO RELOCATE ALL ROAD SIGNS WHICH INTERFERE WITH HIS CONSTRUCTION OPERATIONS AND TO TEMPORARILY RESET SUCH SIGNS DURING HIS CONSTRUCTION OPERATIONS. ALL WORK INVOLVING SIGNS SHALL BE COVERED BY THE FOLLOWING REQUIREMENTS:

A. SIGNS SHALL NOT BE REMOVED UNTIL PROGRESS OF WORK NECESSITATES REMOVAL

B. EVERY SIGN REMOVED MUST BE RE-ERECTED AT A TEMPORARY LOCATION IN A WORKMANLIKE MANNER VISIBLE TO TRAFFIC ON THE ROADWAY. ALL SUCH SIGNS MUST BE MAINTAINED STRAIGHT AND NEAT APPEARING FOR THE DURATION OF THE TEMPORARY SETTING.

C. ALL SIGNS MUST BE RE-ERECTED IN THEIR PERMANENT LOCATIONS AS DESIGNATED BY THE ENGINEER AS THE ROADWAY IS COMPLETED. THIS WORK SHALL BE CONSIDERED AS INCLUDED TO THE CONTRACT.

D. ALL SIGNS NOT REQUIRED FOR REUSE AFTER CONSTRUCTION IS COMPLETED SHALL REMAIN THE PROPERTY OF THE COUNTY. THE CONTRACTOR SHALL BE REQUIRED TO STORE THEM AT THE JOB SITE FOR PICKUP BY THE COUNTY.

E. ANY SIGN OR SIGN POST DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT HIS OWN EXPENSE. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A LIST OF ALL EXISTING DAMAGED SIGNS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

F. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER AN INVENTORY OF ALL SIGNS MOVED DURING CONSTRUCTION.

7. PROPER DRAINAGE SHALL BE MAINTAINED IN THE IMPROVEMENT AREA DURING CONSTRUCTION. CONTRACTOR IS TO ASSURE THAT NO DAMAGE OR CHANGE TO FLOOD PLAIN OR WETLAND OCCURS DURING THE DRAINAGE MAINTENANCE PROCESS. THE COST OF THIS WORK SHALL BE PAID FOR AS EARTH EXCAVATION.

8. THE COST OF THE REMOVAL OF ANY EXISTING POLES, POSTS, TREE STUMPS OR OTHER OBSTRUCTIONS WHICH INTERFERE WITH THE PROPOSED IMPROVEMENTS AND WHICH ARE NOT PAID UNDER SEPARATE PAY ITEMS SHALL BE CONSIDERED INCLUDED TO THE CONTRACT TO THE PAY ITEM REMOVAL OF UNSUITABLE MATERIAL.

9. THE CONTRACTOR SHALL OBTAIN AUTHORIZATION FROM THE ENGINEER BEFORE BEGINNING WORK.

10. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL PAVEMENT OPENINGS, OPEN HOLES, EQUIPMENT AND RUBBLE LEFT IN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR SHALL MAINTAIN HIGH VISIBILITY OF ALL TEMPORARY HAZARDS TO PEDESTRIANS AND MOTORISTS.

11. PLACEMENT OF TOPSOIL SHALL BE COMPLETED WITHIN 10-15 DAYS AFTER THE COMPLETION OF PAVING AND/OR DRIVEWAY REPLACEMENT OPERATIONS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. PERMANENT SEEDING SHALL BE PLACED EITHER PRIOR TO JUNE 15 OR AFTER SEPTEMBER 15.

12. PRIOR TO THE START OF ANY CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL ESTABLISH A NEW SET OF CONTROL POINTS WHICH CAN REMAIN IN PLACE UNTIL COMPLETION OF ALL WORK. NEW CONTROL POINTS SHALL BE PRESENTED, REVIEWED, AND ACCEPTED BY THE ENGINEER BEFORE ESTABLISHING THEM AND IN ANY WAY DESTROYING THE EXISTING ONES.

13. SAWCUTTING OF PAVEMENTS, SHOULDERS, ETC. SHALL BE FULL DEPTH AND SHALL RESULT IN A CLEAN, STRAIGHT EDGE ON THE PORTION REMAINING. ALL SAWCUTTING SHALL BE CONSIDERED INCLUDED IN THE COST OF THE REMOVAL ITEMS.

14. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PRIVATE ENTRANCES AT ALL TIMES DURING CONSTRUCTION.

15. FOR STEEL BAR CERTIFICATION, PLEASE CONTACT IDOT BUREAU OF MATERIALS AT (847) 705-4353.

16. THE MCHENRY COUNTY SOIL AND WATER CONSERVATION DISTRICT (MCSWCD) MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES AND ONE WEEK PRIOR TO THE FINAL INSPECTION. 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 TO THE ENGINEER AND MCSWCD FOR CONCURRENT REVIEW AND APPROVAL PRIOR TO IMPLEMENTING ANY CHANGES TO THE PLAN. MCSWCD CONTACT: TOM MATTINGLY (815) 338-0099 x3.

17. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE MCSWCD.

18. CHANGEABLE MESSAGE SIGNS SHALL BE PLACED IN ADVANCE OF THE TEMPORARY DETOUR ROUTE AT LEAST ONE WEEK PRIOR TO THE CLOSURE OF DUNHAM ROAD.

19. NO WORK SHALL BE PERFORMED IN FLOWING WATER. WORK IN OR NEAR THE CRITICAL AREAS SHOULD BE ISOLATED FOR CONCENTRATED FLOWS OR STREAM FLOW. ONCE WORK IN THIS AREA BEGINS, PRIORITY SHALL BE GIVEN TO THE COMPLETION OF THE WORK AND FINAL STABILIZATION OF ALL DISTURBED AREAS.

20. ALL OPEN LIDS SHALL BE STAMPED WITH "DUMP NO WASTE" AND "DRAINS TO WATERWAY".

21. ORIGINAL NAMEPLATE SHALL BE DETACHED AND RETURNED TO THE MCDOT CONSTRUCTION MANAGER.

22. IN-STREAM CONSTRUCTION OPERATIONS SHALL COMMENCE FROM A WORKING PLATFORM LOCATED ON THE EXISTING ROADWAY. A TEMPORARY BRIDGE WILL NOT BE ALLOWED.

23. CHANNEL EXCAVATION OPERATIONS SHALL BE DONE WHEN WATER LEVEL IS AT OR BELOW NORMAL WATER SURFACE ELEVATION (836.92) OR AS APPROVED BY ENGINEER.

24. DRAIN TILE SYSTEMS DISTURBED DURING DEVELOPMENT MUST BE RECONNECTED BY THOSE RESPONSIBLE FOR THEIR DISTURBANCE. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ALL DRAIN TILES ENCOUNTERED. ALL ABANDONED DRAIN TILES SHALL BE REMOVED IN THEIR ENTIRETY.

25. REMOVE ALL TRACES OF CONSTRUCTION MATERIALS AND EQUIPMENT FROM THE PROJECT SITE UPON PROJECT COMPLETION.

26. ALL FUELING OPERATIONS, LUBRICATING, HYDRAULIC TOPPING OFF, FUEL-TANK PURGING, AND EQUIPMENT MAINTENANCE/REPAIRS SHOULD BE PERFORMED AT AN UPLAND SITE OUTSIDE OF THE 100-YEAR FLOODPLAIN. THESE ACTIVITIES SHOULD TAKE PLACE ON AN APPROVED PAD WITH SPILL CONTROL/COLLECTION DEVICES IN PLACE. THE USE OF CANOLA OIL OR OTHER BIODEGRADABLE FUELS AND FLUIDS IS RECOMMENDED WHEN WORKING IN SENSITIVE RIVERINE ENVIRONMENTS.

27. ALL CONSTRUCTION EQUIPMENT SHOULD BE INSPECTED DAILY FOR HYDRAULIC AND FUEL LEAKS; LEAKS SHOULD BE REPAIRED PRIOR TO OPERATION WITHIN 1,000 FEET OF THE CREEK. WHEN NOT IN USE, FUEL AND HYDRAULIC FLUIDS SHOULD BE STORED AT AN UPLAND SITE OUTSIDE OF THE 100-YEAR FLOODPLAIN. THE USE OF CANOLA OIL OR OTHER BIODEGRADABLE FUELS AND FLUIDS IS RECOMMENDED WHEN WORKING IN SENSITIVE RIVERINE ENVIRONMENTS.

28. ALL MOTORIZED-EQUIPMENT OPERATIONS SHOULD BE CONDUCTED FOR THE BANK TO THE GREATEST EXTENT POSSIBLE. IF AT ALL POSSIBLE, NO MACHINERY (TRUCKS, CRANES, BACKHOES, EXCAVATORS) SHOULD WORK OR OTHERWISE OPERATE FROM WITHIN THE RIVERBED.

29. NO MIXES, CEMENTS, FLUIDS OR OTHER CONSTRUCTION WASTEWATER SHOULD BE DISCHARGED INTO THE CREEK. SPOIL PILES SHOULD BE COVERED OR OTHERWISE MANAGED TO REDUCE SEDIMENTATION.

30. ALL DEWATERING DISCHARGES SHOULD BE FILTERED TO REMOVE EXCESSIVE SEDIMENTS.

31. APRONS, SHROUDS, AND/OR OTHER CONTAINMENT DEVICES SHOULD BE IN PLACE DURING BRIDGE DEMOLITION, BRIDGE CONSTRUCTION, AND SURFACING ACTIVITIES TO CAPTURE FALLING DEBRIS, PAINT, WELDING SLAG, SEALANT OPERSPRAY, OR OTHER DEBRIS. ALL CONCRETE CHUNKS, ASPHALT, GRINDINGS, CONCRETE MATERIALS, WOOD, REBAR, AND PHTER DEBRIS GENERATED DURING DEMOLITION OR CONSTRUCTION THAT ENTERS THE CREEK SHOULD BE IMMEDIATELY REMOVED AND TAKEN TO AN APPROPRIATE DISPOSAL FACILITY OUTSIDE OF THE 100-YEAR FLOODPLAIN.

32. THE RESIDENT ENGINEER SHALL CONTACT IDOT TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.

COMMITMENTS

1. NATIVE PLANTINGS WILL BE UTILIZED ALONG RUSH CREEK AT LOCATIONS NORTH AND SOUTH OF THE RIPRAP PROTECTION FOR THE ABUTMENT.

2. REMOVE ALL TRACES OF CONSTRUCTION MATERIALS AND EQUIPMENT FROM THE PROJECT SITE UPON PROJECT COMPLETION.

3. USE EARTH-TONE COLORS ON ANY PAINT WORK THAT MAY NEED TO BE COMPLETED.

4. ALL FUELING OPERATIONS, LUBRICATING, HYDRAULIC TOPPING OFF, FUEL-TANK PURGING, AND EQUIPMENT MAINTENANCE/REPAIRS SHOULD BE PERFORMED AT AN UPLAND SITE OUTSIDE OF THE 100-YEAR FLOODPLAIN. THESE ACTIVITIES SHOULD TAKE PLACE ON AN APPROVED PAD WITH SPILL CONTROL/COLLECTION DEVICES IN PLACE. THE USE OF CANOLA OIL OR OTHER BIODEGRADABLE FUELS AND FLUIDS IS RECOMMENDED WHEN WORKING IN SENSITIVE RIVERINE ENVIRONMENTS.

5. ALL CONSTRUCTION EQUIPMENT SHOULD BE INSPECTED DAILY FOR HYDRAULIC AND FUEL LEAKS; LEAKS SHOULD BE REPAIRED PRIOR TO OPERATION WITHIN 1,000 FEET OF THE CREEK. WHEN NOT IN USE, FUEL AND HYDRAULIC FLUIDS SHOULD BE STORED AT AN UPLAND SITE OUTSIDE OF THE 100-YEAR FLOODPLAIN. THE USE OF CANOLA OIL OR OTHER BIODEGRADABLE FUELS AND FLUIDS IS RECOMMENDED WHEN WORKING IN SENSITIVE RIVERINE ENVIRONMENTS.

6. ALL MOTORIZED-EQUIPMENT OPERATIONS SHOULD BE CONDUCTED FROM THE BANK TO THE GREATEST EXTENT POSSIBLE. IF AT ALL POSSIBLE, NO MACHINERY (TRUCKS, CRANES, BACKHOES, EXCAVATORS) SHOULD WORK OR OTHERWISE OPERATE FROM WITHIN THE RIVERBED.

7. NO MIXES, CEMENTS, FLUIDS, OR OTHER CONSTRUCTION WASTEWATER SHOULD BE DISCHARGED INTO THE CREEK. SPOIL PILES SHOULD BE COVERED OR OTHERWISE MANAGED TO REDUCE SEDIMENTATION.

8. ALL DEWATERING DISCHARGES SHOULD BE FILTERED TO REMOVE EXCESSIVE SEDIMENTS.

9. APRONS, SHROUDS, AND/OR OTHER CONTAINMENT DEVICES SHOULD BE IN PLACE DURING BRIDGE DEMOLITION, BRIDGE CONSTRUCTION, AND SURFACING ACTIVITIES TO CAPTURE FALLING DEBRIS, PAINT, WELDING SLAG, SEALANT OVERSPRAY, OR OTHER DEBRIS. ALL CONCRETE CHUNKS, ASPHALT, GRINDINGS, CONCRETE MATERIALS, WOOD, REBAR, AND OTHER DEBRIS GENERATED DURING DEMOLITION OR CONSTRUCTION THAT ENTERS THE CREEK SHOULD BE IMMEDIATELY REMOVED AND TAKEN TO AN APPROPRIATE DISPOSAL FACILITY OUTSIDE OF THE 100-YEAR FLOODPLAIN

10. PERMANENT ROCK WEIRS OR OTHER SUCH DIVERSIONS SHOULD NOT BE ESTABLISHED.

11. THE BRIDGE DECK DRAINS SHOULD CONVEY DECK RUN-OFF INTO FILTER CATCHMENTS, THE RIPARIAN ZONE, OR HAVE OTHER OPPORTUNITIES TO INFILTRATE INTO THE LANDSCAPE PRIOR TO DISCHARGE INTO THE RIVER. DECK DRAINS SHOULD NOT ALLOW STORMWATER RUNOFF TO FALL DIRECTLY INTO THE CREEK.

12. A MONOLITHIC CONCRETE WEARING SURFACE INSTEAD OF BITUMINOUS/ASPHALT DECK IS PREFERRED AND RECOMMENDED TO REDUCE THE INTRODUCTION OF HYDROCARBONS INTO THE CREEK AND PROTECT WATER QUALITY.

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	DATE - 02/07/2011	REVISED -

MCHENRY COUNTY DIVISION OF TRANSPORTATION

GENERAL NOTES

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

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00340-00-BR	MCHENRY	46	3
CONTRACT NO. 63552			ILLINOIS FED. AID PROJECT	

SUMMARY OF QUANTITIES			TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
CODE NO.	DESCRIPTION	UNIT		ROADWAY 0004	BRIDGE 0011
20200100	EARTH EXCAVATION	CU YD	4,190	4,190	
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	1,688	1,688	
20300100	CHANNEL EXCAVATION	CU YD	151	151	
20400800	FURNISHED EXCAVATION	CU YD	205	205	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	50	50	
20800150	TRENCH BACKFILL	CU YD	11	11	
21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	8,715	8,715	
25000210	SEEDING, CLASS 2A	ACRE	0.8	0.8	
25000310	SEEDING, CLASS 4	ACRE	0.9	0.9	
25000314	SEEDING, CLASS 4B	ACRE	0.1	0.1	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	155	155	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	155	155	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	155	155	
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	8,430	8,430	
28000200	EARTH EXCAVATION FOR EROSION CONTROL	CU YD	47	47	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	1,100	1,100	
28000305	TEMPORARY DITCH CHECKS	FOOT	160	160	
28000315	AGGREGATE DITCH CHECKS	TON	55	55	
28000400	PERIMETER EROSION BARRIER	FOOT	2,400	2,400	
28000500	INLET AND PIPE PROTECTION	EACH	2	2	
28000510	INLET FILTERS	EACH	4	4	
28001000	AGGREGATE (EROSION CONTROL)	TON	7	7	
28100105	STONE RIPRAP, CLASS A3	SQ YD	16	16	
28100107	STONE RIPRAP, CLASS A4	SQ YD	727		727
28200200	FILTER FABRIC	SQ YD	743	16	727
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	1,540	1,540	
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	100	100	
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	1,520	1,520	
40600300	AGGREGATE (PRIME COAT)	TON	6	6	
40701801	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 6"	SQ YD	1,640	1,640	
42001300	PROTECTIVE COAT	SQ YD	48	48	
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	890	890	
44000100	PAVEMENT REMOVAL	SQ YD	1,970	1,970	
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	1,300	1,300	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1		1
50105220	PIPE CULVERT REMOVAL	FOOT	21	21	
50200100	STRUCTURE EXCAVATION	CU YD	163		163
50300225	CONCRETE STRUCTURES	CU YD	61.8		61.8
50300255	CONCRETE SUPERSTRUCTURE	CU YD	127.9		127.9
50300260	BRIDGE DECK GROOVING	SQ YD	491		491
50300280	CONCRETE ENCASEMENT	CU YD	7.7		7.7
50300300	PROTECTIVE COAT	SQ YD	576		576
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	2,434		2,434
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	42,760		42,760
51201600	FURNISHING STEEL PILES HP 12X53	FOOT	1,080		1,080
51202305	DRIVING PILES	FOOT	1,080		1,080
51203600	TEST PILE STEEL HP 12X53	EACH	2		2
51500100	NAME PLATES	EACH	1		1
542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	FOOT	28	28	
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	4	4	
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	2	2	
550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	FOOT	49	49	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	43		43
60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	EACH	4	4	
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	145	145	
63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	475	475	

SUMMARY OF QUANTITIES			TOTAL QUANTITY	CONSTRUCTION TYPE CODE	
CODE NO.	DESCRIPTION	UNIT		ROADWAY 0004	BRIDGE 0011
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	5	5	
67100100	MOBILIZATION	L SUM	1	1	
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	5	5	
72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	4	4	
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1,850	1,850	
* 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	270	270	
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	8	8	
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	62		62
X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	273		273
XX005968	TURBIDITY CURTAIN	SQ YD	80	80	
XX006846	AGGREGATE FIELD ENTRANCE	SQ YD	182	182	
XX008438	TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR	EACH	1	1	
Z0001050	AGGREGATE SUBGRADE 12"	SQ YD	2,348	2,348	
* Z0007124	STEEL RAILING (SPECIAL)	FOOT	160		160
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	52	52	
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	154		154
Z0066400	STABILIZED DRIVEWAYS 6"	SQ YD	25	25	
Δ Z0076600	TRAINEES	HOOR	500	500	

* DENOTES SPECIALITY ITEM
Δ 0042

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	DATE - 02/07/2011	REVISED -

MCHENRY COUNTY DIVISION OF TRANSPORTATION

SUMMARY OF QUANTITIES			
TR RTE.	SECTION	COUNTY	TOTAL SHEETS
	07-00340-00-BR	MCHENRY	46
SCALE: N.T.S.			SHEET NO. OF SHEETS STA. TO STA.


COUNTY	TOTAL SHEETS	SHEET NO.
MCHENRY	46	4
CONTRACT NO. 63552		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		

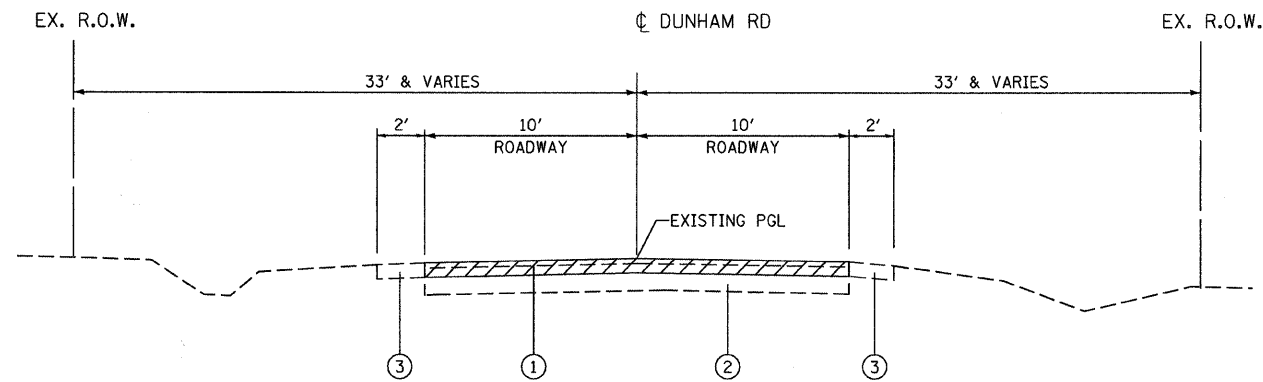
EARTHWORK SCHEDULE						
STATION	20200100		20201200		EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	EARTH EXCAVATION	EARTH EXCAVATION VOLUME USED (15% SHRINKAGE)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL			
LINE "DUNHAM"	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
104+50 TO 105+00	15	13	3	0	13	
105+00 TO 105+50	100	85	26	5	80	
105+50 TO 106+00	178	151	46	11	141	
106+00 TO 106+50	353	300	85	70	231	
106+50 TO 107+00	518	440	125	141	300	
107+00 TO 107+50	452	384	124	183	201	
107+50 TO 108+00	366	311	122	255	56	
108+00 TO 108+50	331	281	117	317	-36	
108+50 TO 109+00	373	317	117	350	-32	
109+00 TO 109+50	385	327	115	352	-24	
109+50 TO 110+00	330	281	151	489	-208	
110+00 TO 110+50	31	27	34	118	-92	
110+50 TO 111+00	110	93	85	283	-190	
111+00 TO 111+50	120	102	87	285	-183	
111+50 TO 112+00	81	69	81	265	-196	
112+00 TO 112+50	58	49	73	218	-169	
112+50 TO 113+00	65	56	69	178	-123	
113+00 TO 113+50	87	74	72	133	-59	
113+50 TO 114+00	143	122	71	85	37	
114+00 TO 114+40	94	80	35	29	51	
PGE			50			
TOTALS	4,190	3,562	1,688	3,767	-205	

EARTHWORK SCHEDULE			
LOCATION FROM CENTERLINE			20300100
			CHANNEL EXCAVATION
			(CU YD)
61' RT TO 48' RT			5
48' RT TO 36' RT			13
36' RT TO 20' RT			30
20' RT TO 13' RT			16
13' RT TO 13' LT			46
13' LT TO 20' LT			11
20' LT TO 30' LT			9
30' LT TO 51' LT			10
51' LT TO 73' LT			11
TOTALS			151

SUMMARY			
20200100	20400800	20201201	20201201
EARTH EXCAVATION	FURNISHED EXCAVATION	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CHANNEL EXCAVATION
(CU YD)	(CU YD)	(CU YD)	(CU YD)
4,190	205	1,688	151

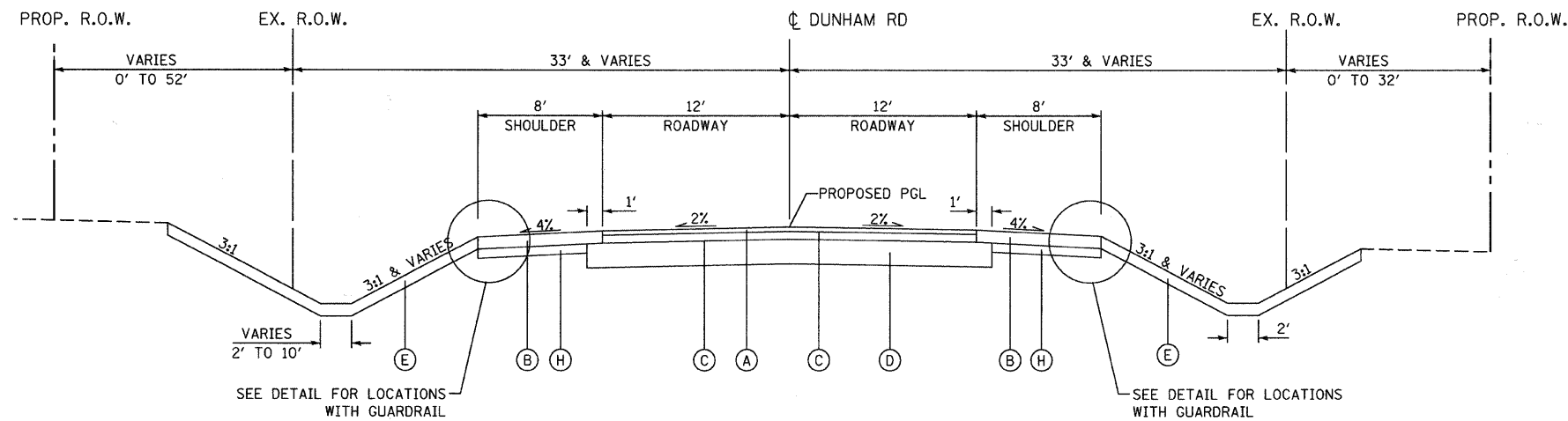
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 Ciorba Group, Inc. CONSULTING ENGINEERS 5507 North Cumberland Avenue, Suite 402 Chicago, Illinois 60656 Tel. 773.775.4009 Fax 773.775.4014	USER NAME = espino PLOT SCALE = 1:8000 / IN. PLOT DATE = 2/4/2011	DESIGNED - DKD DRAWN - DKD CHECKED - CLG DATE - 02/07/2011	REVISED - REVISED - REVISED - REVISED -	MCHENRY COUNTY DIVISION OF TRANSPORTATION	EARTHWORK SCHEDULES	TR RTE. SECTION COUNTY MCHENRY TOTAL SHEETS 46 SHEET NO. 5	CONTRACT NO. 63552	SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT
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DUNHAM ROAD
EXISTING TYPICAL SECTION
STA. 105+00 TO STA. 109+35.71
STA. 110+64.30 TO STA. 114+40

- EXISTING CONDITIONS:**
- ① HOT-MIX ASPHALT SURFACE COURSE AND BINDER COURSE, 4" - 9.75" *
 - ② AGGREGATE SUB-BASE, 14" - 20.75" **
 - ③ AGGREGATE SHOULDER **
 - * REMOVAL PAID AS PAVEMENT REMOVAL
 - ** REMOVAL PAID AS EARTH EXCAVATION
- ▨ PAVEMENT REMOVAL



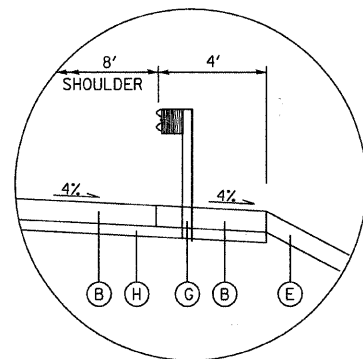
DUNHAM ROAD
PROPOSED TYPICAL SECTION
STA. 105+00 TO STA. 109+35.71
STA. 110+64.30 TO STA. 114+40

- PROPOSED IMPROVEMENTS**
- Ⓐ HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 6"
 - Ⓑ HOT-MIX ASPHALT SHOULDERS, 6"
 - Ⓒ BITUMINOUS MATERIALS (PRIME COAT)
 - Ⓓ AGGREGATE SUBGRADE 12"
 - Ⓔ TOPSOIL, FURNISH AND PLACE 6" AND SEEDING PER LANDSCAPING PLAN
 - Ⓕ COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.24
 - Ⓖ STEEL PLATE BEAM GUARD RAIL, TYPE A
 - Ⓗ SUBBASE GRANULAR MATERIAL, TYPE B 4"

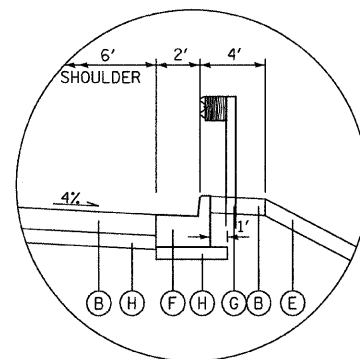
HOT-MIX ASPHALT MIXTURE REQUIREMENTS

OPERATION	MIXTURE TYPE	AIR VOIDS @ Ndes
ROADWAY RECONSTRUCTION	HOT-MIX ASPHALT PAVEMENT, (FULL DEPTH) 6":	
	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, 2" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 4" (IN 2 LIFTS)	4% @ 50 GYR. 4% @ 50 GYR.
SHOULDER RECON	HOT-MIX ASPHALT SHOULDERS, 6" (IN 2 LIFTS)	2% @ 30 GYR.
BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, 2"	4% @ 50 GYR.
	HOT-MIX ASPHALT BINDER COURSE, IL 19.0, N50, 4" - 17"	4% @ 50 GYR.
STABILIZED DRIVEWAY	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (IL-9.5mm), 2"	4% @ 50 GYR.
	HOT-MIX ASPHALT BASE COURSE, (HMA BINDER IL 19.0mm), 4" - PE (IN 2 LIFTS)	4% @ 50 GYR.

- * THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LB/SQ IN/YD
- * THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70 -22 AND FOR NON-POLYMERIZED HMA SHALL BE "PG 64 -22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.



GUARDRAIL DETAIL



GUARDRAIL DETAIL WITH
COMB. CONC. CURB AND GUTTER B-6.24

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MCHENRY COUNTY DIVISION OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: N.T.S.	SHEET NO.	OF SHEETS	STA.	TO STA.
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TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00340-00-BR	MCHENRY	46	6
CONTRACT NO. 63552			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

DUNHAM ROAD ALIGNMENT

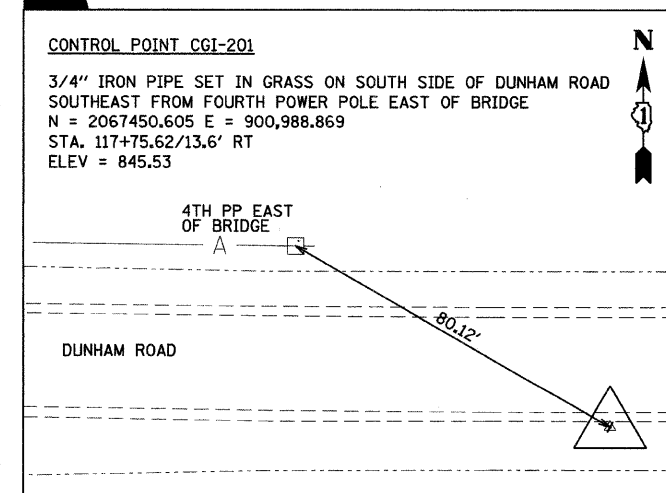
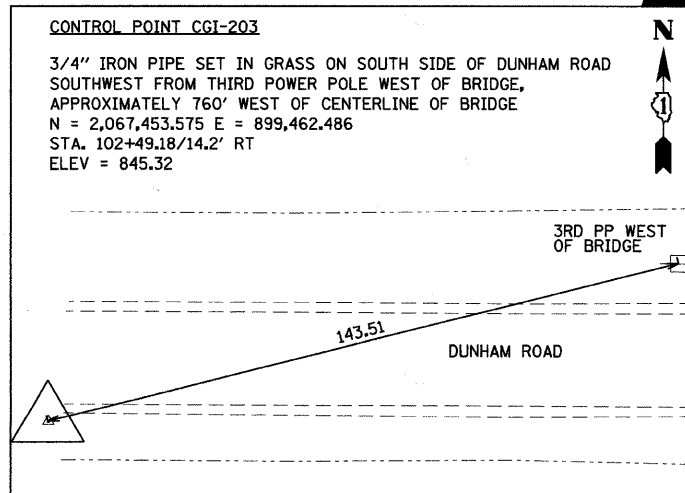
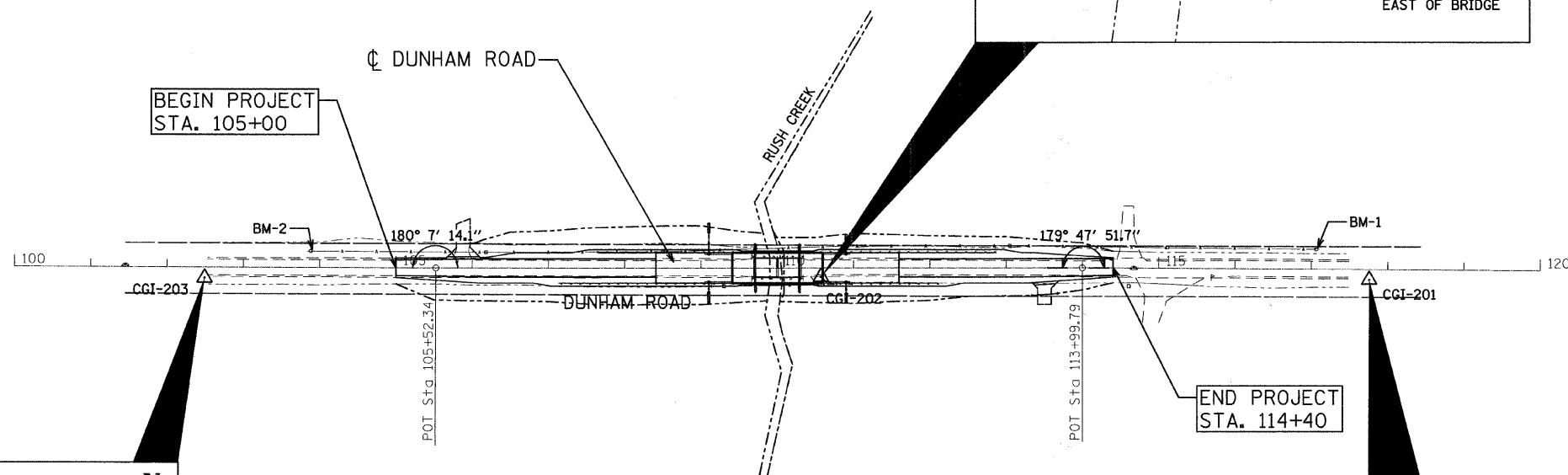
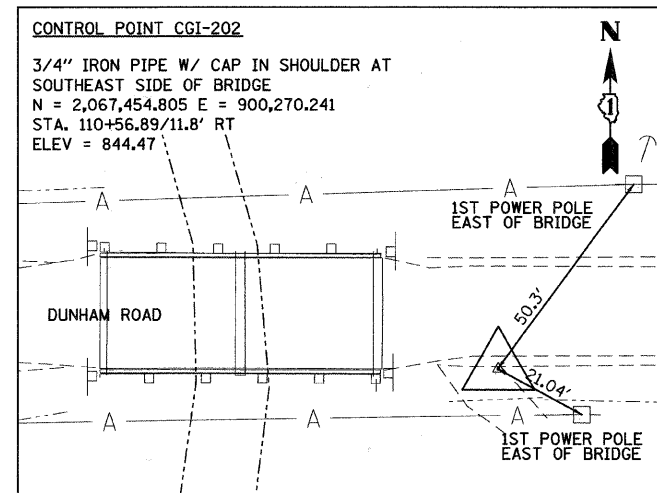
STATION	NORTHING	EASTING
POT 100+00.00	2,067,468.6798	899,213.3554
POT 105+52.34	2,067,466.5353	899,765.6865
POT 113+99.79	2,067,466.7046	900,613.1383
POT 120+00.01	2,067,462.7711	901,213.3530

BENCHMARKS

BM 1 LARGE MAG NAIL IN FOURTH POWER POLE EAST OF BRIDGE NORTH OF DUNHAM ROAD
N = 2,067,490.66 E = 900,919.48 ELEV. = 845.82

BM 2 LARGE MAG NAIL IN THIRD POWER POLE WEST OF BRIDGE NORTH OF DUNHAM ROAD
N = 2,067,488.55 E = 899,601.66 ELEV. = 846.41

• VERTICAL DATUM IS NAVD 88 (GEOID 2003)



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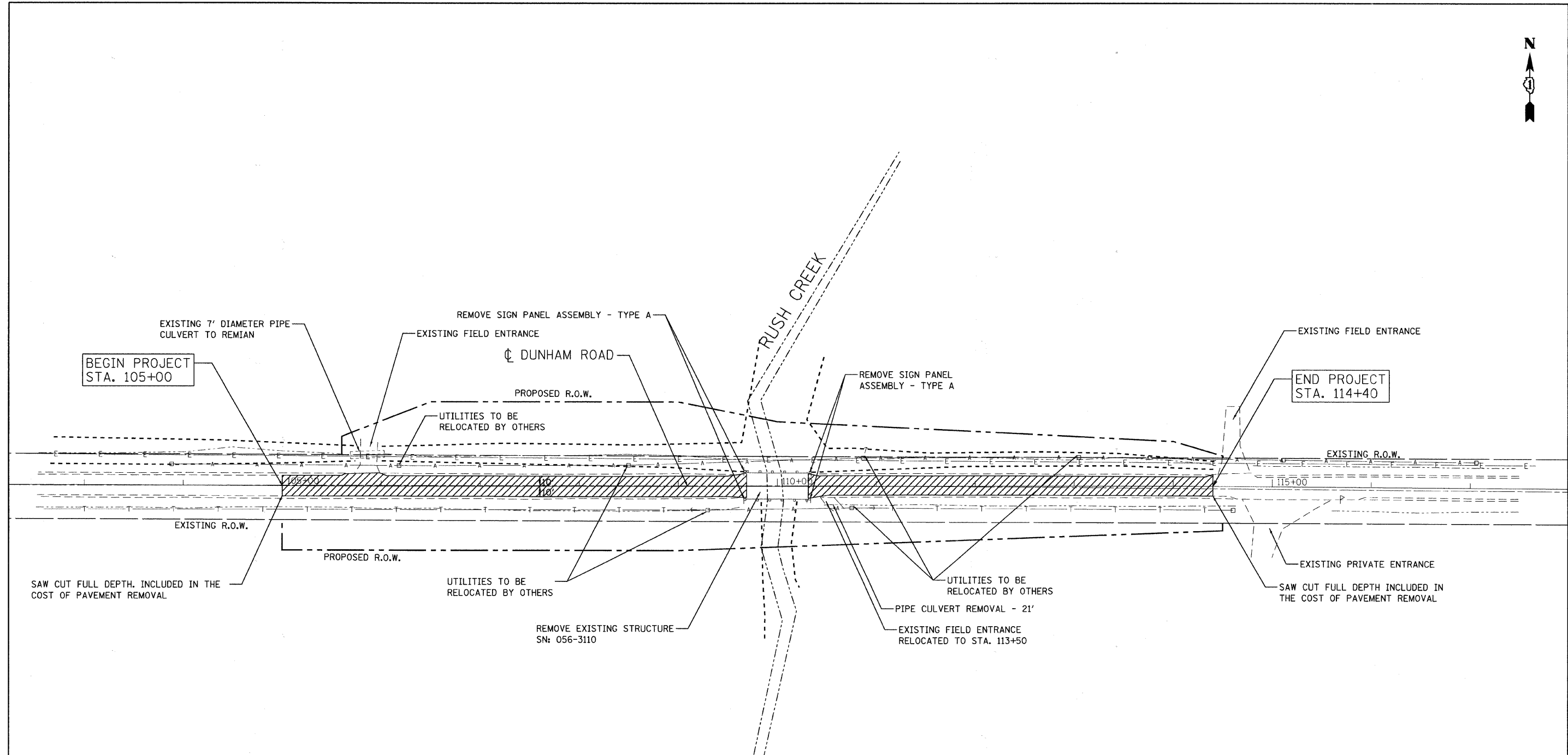
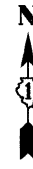
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	DATE - 02/07/2011	REVISED -

MCHENRY COUNTY DIVISION OF TRANSPORTATION

ALIGNMENT, TIES, & BENCHMARKS

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

TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00340-00-BR	MCHENRY	46	7
CONTRACT NO. 63552			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	



 PAVEMENT REMOVAL

 WETLAND BOUNDARY

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MCHENRY COUNTY DIVISION OF TRANSPORTATION

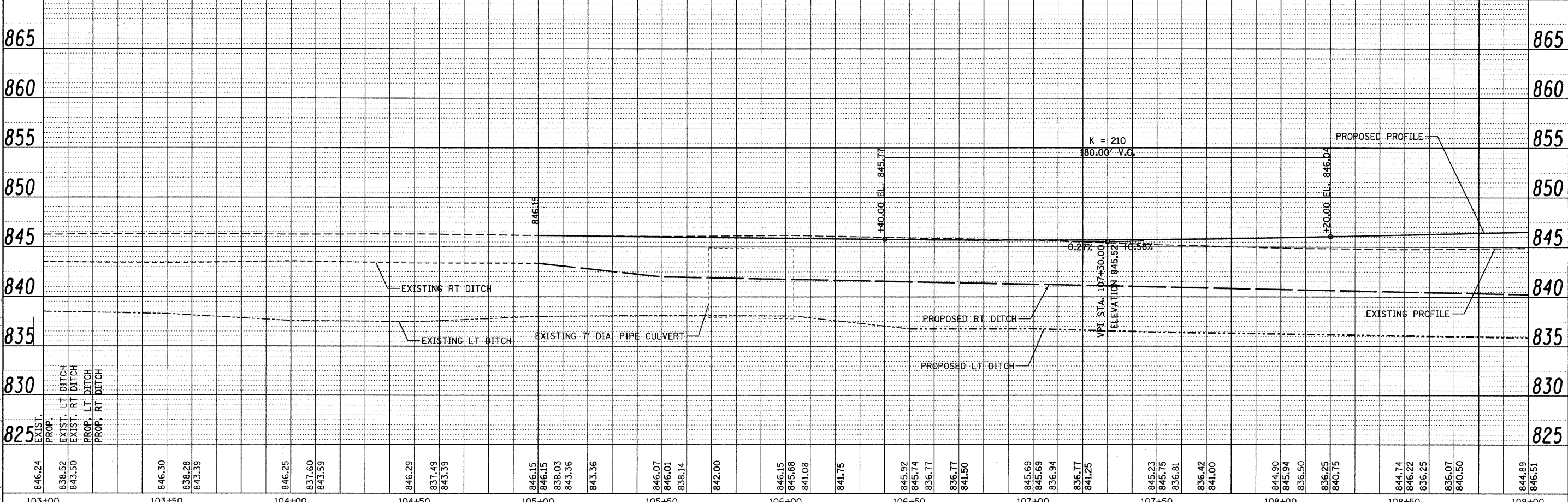
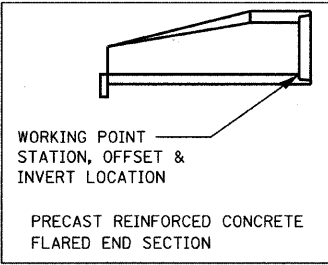
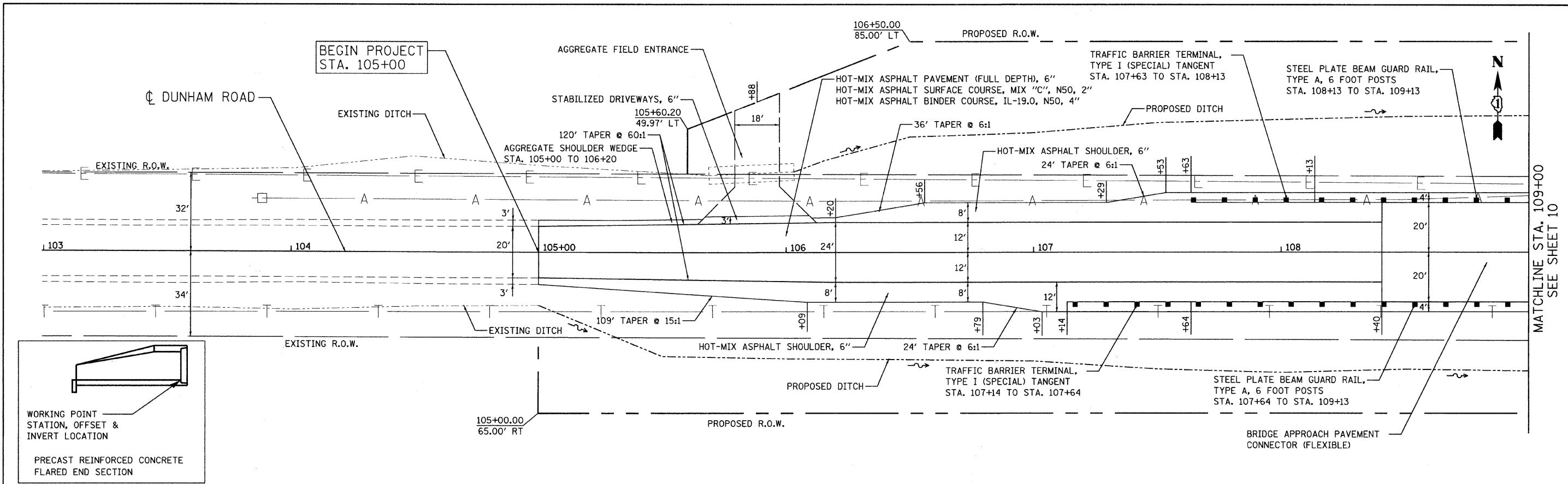
EXISTING CONDITIONS AND REMOVALS

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

TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00340-00-BR	MCHENRY	46	8
CONTRACT NO. 63552			FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT	

DATE	
BY	
REVISIONS	
PLANNED	
ALIGNED	
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NO.	
NOTE BOOK	
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DATE	

DATE	
BY	
REVISIONS	
PLANNED	
GRADES	
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NO.	
NOTE BOOK	
NO.	
DATE	



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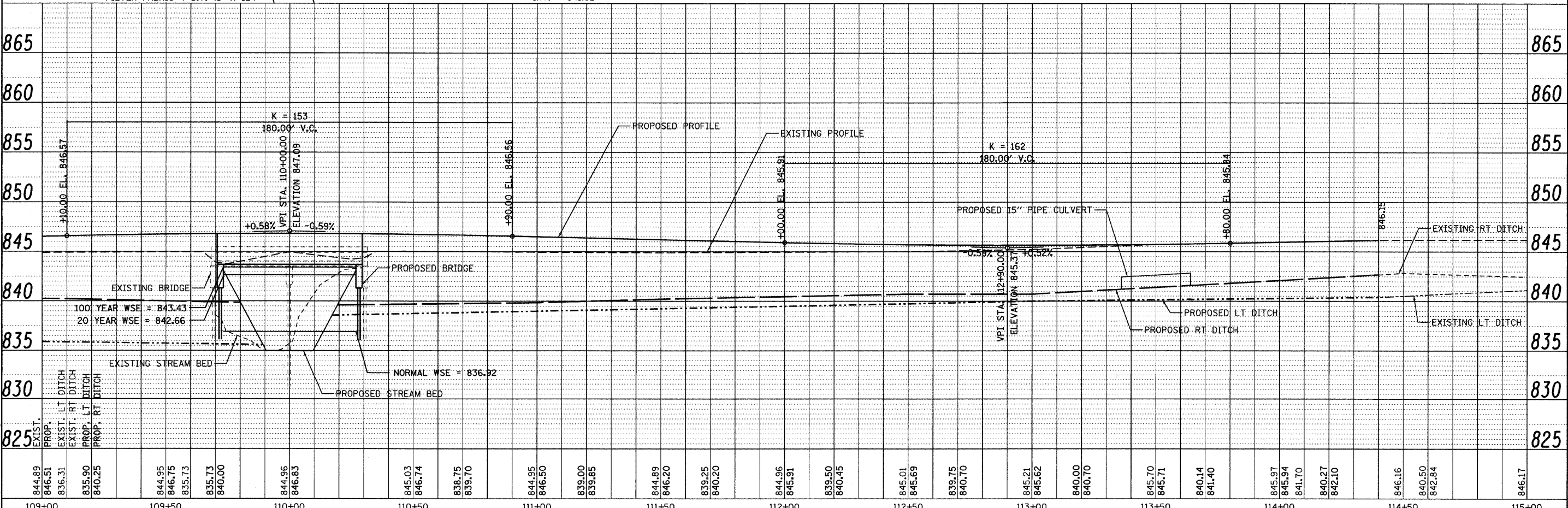
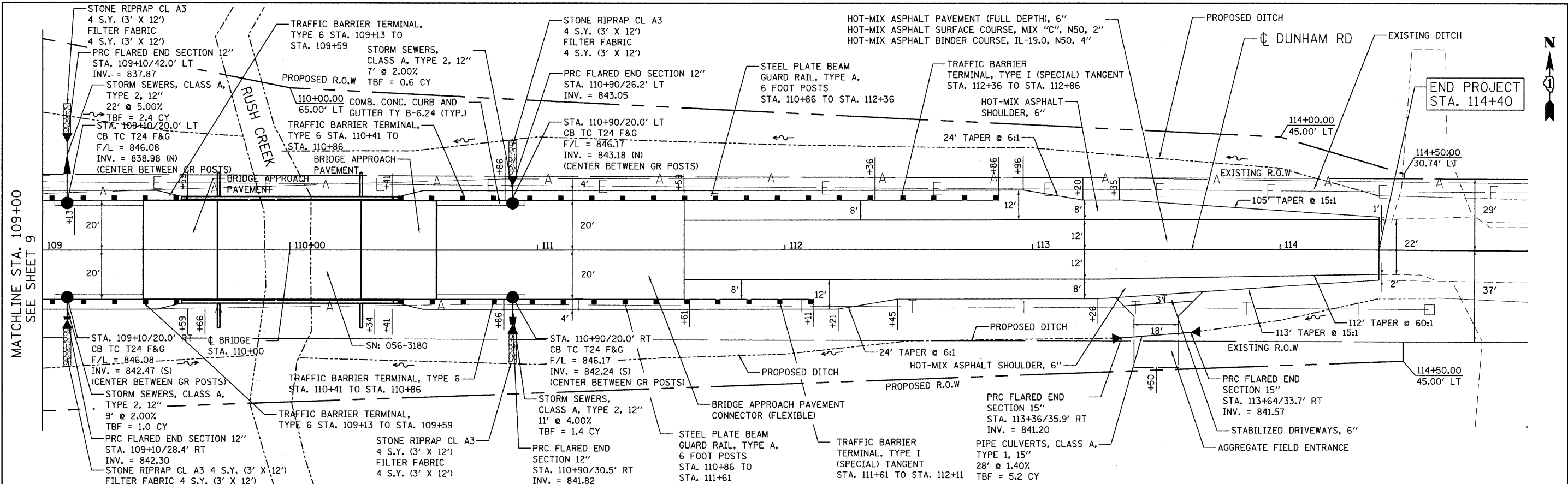
MCHENRY COUNTY DIVISION OF TRANSPORTATION

PROPOSED PLAN AND PROFILE			
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TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00340-00-BR	MCHENRY	46	9
CONTRACT NO. 63552			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

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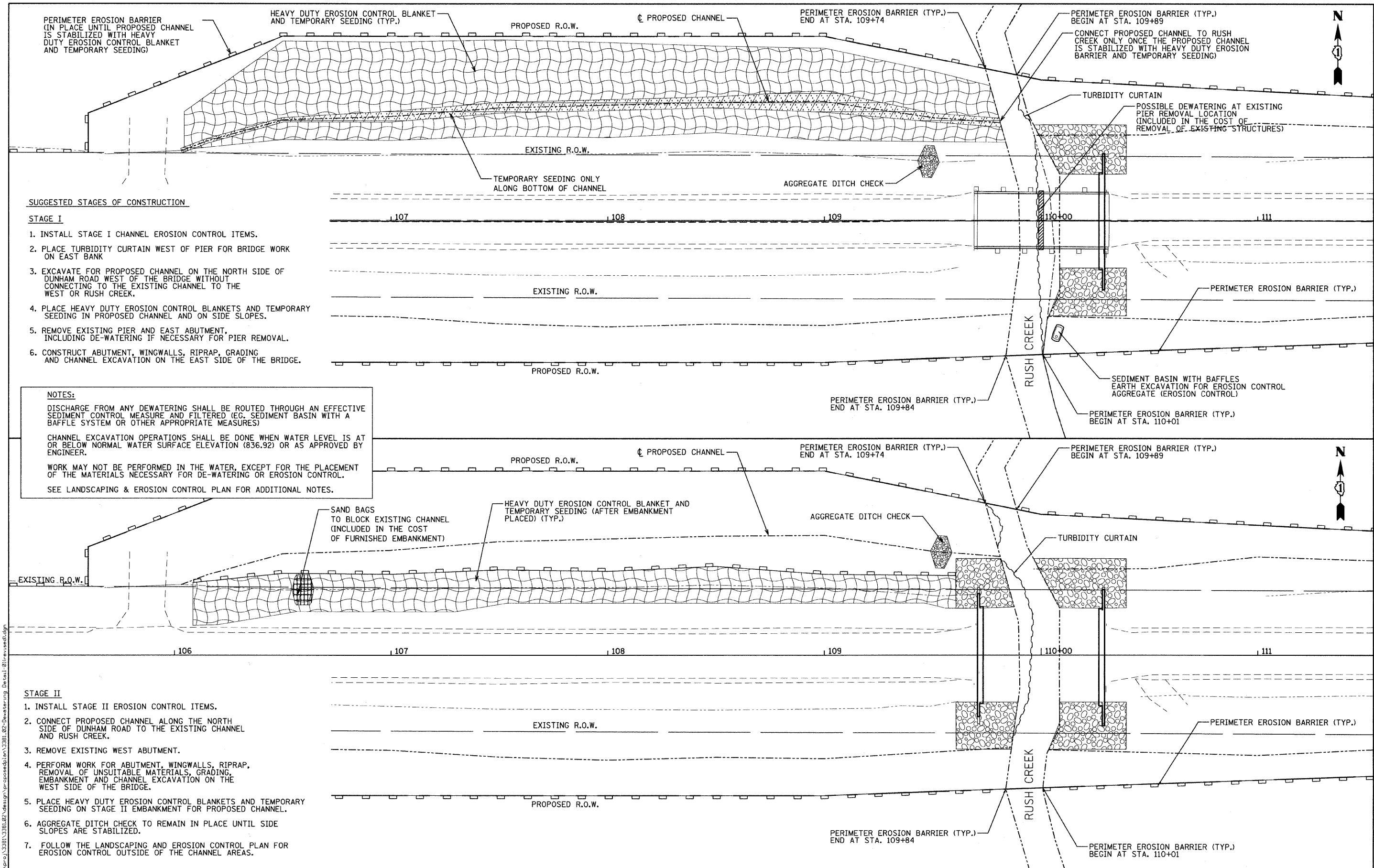
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DATE -	02/07/2011
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MCHENRY COUNTY DIVISION OF TRANSPORTATION

PROPOSED PLAN AND PROFILE			
SCALE: 1" = 20'	SHEET NO.	OF SHEETS	STA. TO STA.

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00340-00-BR	MCHENRY	46	10
CONTRACT NO. 63552				
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

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SUGGESTED STAGES OF CONSTRUCTION

STAGE I

1. INSTALL STAGE I CHANNEL EROSION CONTROL ITEMS.
2. PLACE TURBIDITY CURTAIN WEST OF PIER FOR BRIDGE WORK ON EAST BANK
3. EXCAVATE FOR PROPOSED CHANNEL ON THE NORTH SIDE OF DUNHAM ROAD WEST OF THE BRIDGE WITHOUT CONNECTING TO THE EXISTING CHANNEL TO THE WEST OR RUSH CREEK.
4. PLACE HEAVY DUTY EROSION CONTROL BLANKETS AND TEMPORARY SEEDING IN PROPOSED CHANNEL AND ON SIDE SLOPES.
5. REMOVE EXISTING PIER AND EAST ABUTMENT, INCLUDING DE-WATERING IF NECESSARY FOR PIER REMOVAL.
6. CONSTRUCT ABUTMENT, WINGWALLS, RIPRAP, GRADING AND CHANNEL EXCAVATION ON THE EAST SIDE OF THE BRIDGE.

NOTES:
 DISCHARGE FROM ANY DEWATERING SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE AND FILTERED (EG. SEDIMENT BASIN WITH A BAFFLE SYSTEM OR OTHER APPROPRIATE MEASURES)
 CHANNEL EXCAVATION OPERATIONS SHALL BE DONE WHEN WATER LEVEL IS AT OR BELOW NORMAL WATER SURFACE ELEVATION (836.92) OR AS APPROVED BY ENGINEER.
 WORK MAY NOT BE PERFORMED IN THE WATER, EXCEPT FOR THE PLACEMENT OF THE MATERIALS NECESSARY FOR DE-WATERING OR EROSION CONTROL.
 SEE LANDSCAPING & EROSION CONTROL PLAN FOR ADDITIONAL NOTES.

STAGE II

1. INSTALL STAGE II EROSION CONTROL ITEMS.
2. CONNECT PROPOSED CHANNEL ALONG THE NORTH SIDE OF DUNHAM ROAD TO THE EXISTING CHANNEL AND RUSH CREEK.
3. REMOVE EXISTING WEST ABUTMENT.
4. PERFORM WORK FOR ABUTMENT, WINGWALLS, RIPRAP, REMOVAL OF UNSUITABLE MATERIALS, GRADING, EMBANKMENT AND CHANNEL EXCAVATION ON THE WEST SIDE OF THE BRIDGE.
5. PLACE HEAVY DUTY EROSION CONTROL BLANKETS AND TEMPORARY SEEDING ON STAGE II EMBANKMENT FOR PROPOSED CHANNEL.
6. AGGREGATE DITCH CHECK TO REMAIN IN PLACE UNTIL SIDE SLOPES ARE STABILIZED.
7. FOLLOW THE LANDSCAPING AND EROSION CONTROL PLAN FOR EROSION CONTROL OUTSIDE OF THE CHANNEL AREAS.

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MCHENRY COUNTY DIVISION OF TRANSPORTATION

**SUGGESTED STAGES OF CONSTRUCTION
 CHANNEL EROSION CONTROL**

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

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00340-00-BR	MCHENRY	46	11
CONTRACT NO. 63552			FED. ROAD DIST. NO. 1 ILLINOIS RED-ANTHROPOJECT	

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"x48"

2) ROAD CLOSED 500 FT
W20-3 48"x48"

3) DETOUR AHEAD
W20-2 48"x48"

4) ROAD CLOSED
R11-2 48"x30"

6) DETOUR
M4-9R 30"x24"

7) DETOUR
M4-9L 30"x24"

8) END DETOUR
M4-8a 24"x18"

9) EASTBOUND
W17-I100 VAR. x 9"

10) DUNHAM ROAD
W17-I100 VAR. x 9"

15) WESTBOUND
W17-I100 VAR. x 9"

16) DETOUR
M4-10L 48"x18"

17) DETOUR
M4-10R 48"x18"

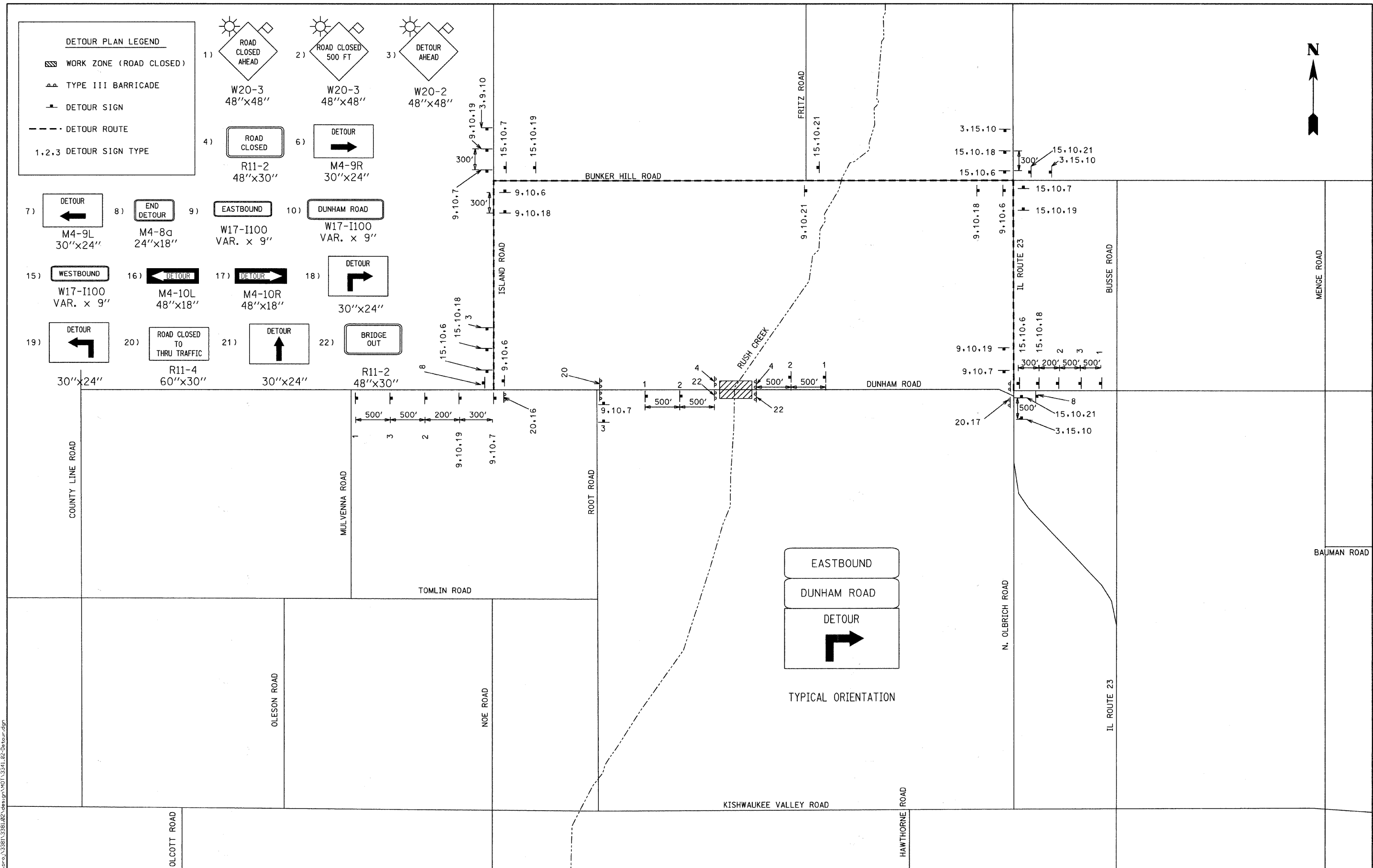
18) DETOUR
30"x24"

19) DETOUR
30"x24"

20) ROAD CLOSED TO THRU TRAFFIC
R11-4 60"x30"

21) DETOUR
30"x24"

22) BRIDGE OUT
R11-2 48"x30"



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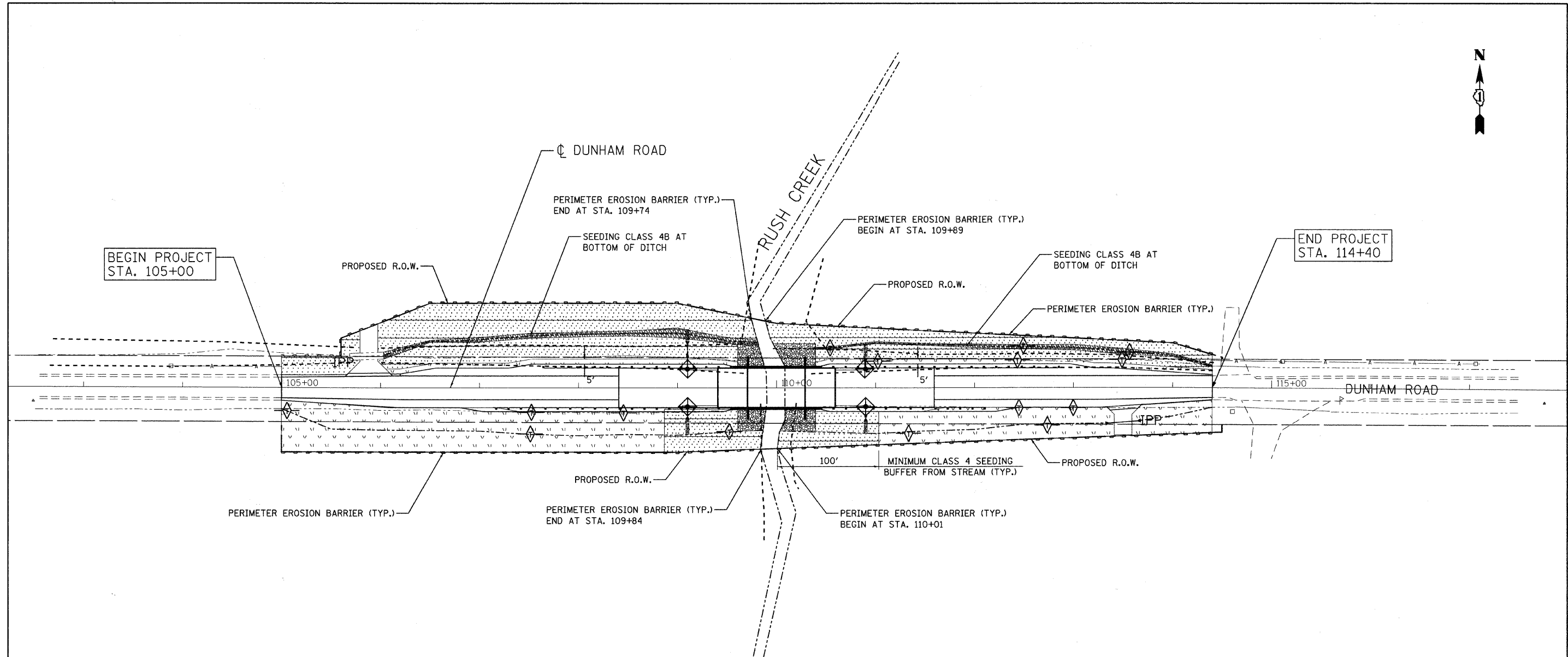
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MCHENRY COUNTY DIVISION OF TRANSPORTATION

TEMPORARY DETOUR PLAN

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

TR RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63552	












NOTES:

1. ALL AREAS OF BARE GROUND WILL BE TEMPORARILY SEEDED EVERY 7 DAYS UNTIL PERMANENT EROSION CONTROL IS IN PLACE
2. ALL AREAS WITHIN R.O.W. WILL BE RESTORED WITH 6" TOPSOIL, HEAVY DUTY EROSION CONTROL BLANKET AND SEEDING, CLASS 2A
3. NO WORK SHALL BE PERFORMED IN FLOWING WATER. WORK IN OR NEAR THE CRITICAL AREAS SHOULD BE ISOLATED FROM CONCENTRATED FLOWS OR STREAM FLOW. ONCE WORK IN THIS AREA BEGINS, PRIORITY SHALL BE GIVEN TO THE COMPLETION OF THE WORK AND FINAL STABILIZATION OF ALL DISTURBED AREAS.
4. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. AREAS OF THE DEVELOPMENT SITE THAT ARE NOT TO BE GRADED SHALL BE PROTECTED FROM CONSTRUCTION TRAFFIC OR OTHER DISTURBANCE UNTIL FINAL SEEDING IS PERFORMED.
5. PROPERTIES AND CHANNELS ADJOINING THE PROJECT SITE SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION.

6. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
7. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE END OF ACTIVE HYDROLOGIC DISTURBANCE.
8. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE AND FILTERED (E.G. SEDIMENT BASIN WITH BAFFLE SYSTEM OR OTHER APPROPRIATE MEASURES).
9. ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS SHALL BE PERMANENTLY STABILIZED.
10. SOIL STOCKPILES SHALL NOT BE LOCATED IN A FLOOD-PRONE AREA, WETLAND AREAS OR A DESIGNATED BUFFER PROTECTING WATERS OF THE UNITED STATES OR ISOLATED WATERS OF MCHENRY COUNTY.

11. SEE SUGGESTED STAGES OF CONSTRUCTION, CHANNEL EROSION CONTROL FOR ADDITIONAL DETAILS.
12. ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
13. THE CONTRACTOR SHALL PROVIDE ADEQUATE RECEPTACLES FOR THE DEPOSITION OF ALL CONSTRUCTION MATERIAL DEBRIS GENERATED DURING THE DEVELOPMENT PROCESS. THE CONTRACTOR SHALL NOT CAUSE OR PERMIT THE DUMPING, DEPOSITING, DROPPING, THROWING, DISCARDING, OR LEAVING OF CONSTRUCTION MATERIAL DEBRIS UPON OR INTO ANY DEVELOPMENT SITE, CHANNEL, WATER OF THE U.S. OR ISOLATED WATERS OF MCHENRY COUNTY. THE CONTRACTOR SHALL MAINTAIN THE DEVELOPMENT SITE FREE OF CONSTRUCTION MATERIAL DEBRIS.
14. ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN AN EFFECTIVE WORKING CONDITION.
15. WHERE STREAM DISTURBANCE IS NECESSARY, THE STREAM, INCLUDING BED AND BANKS, SHALL BE RESTABILIZED WITHIN FORTY-EIGHT (48) HOURS AFTER DISTURBANCE IS COMPLETED OR INTERRUPTED.

LEGEND

-  TEMPORARY DITCH CHECK
-  INLET FILTER
-  TEMPORARY EROSION CONTROL SEEDING & SEEDING CL 4B
-  IPP INLET AND PIPE PROTECTION
-  TEMPORARY EROSION CONTROL SEEDING, HEAVY DUTY EROSION CONTROL BLANKET & SEEDING, CL 4
-  WETLAND BOUNDARY
-  TEMPORARY EROSION CONTROL SEEDING, HEAVY DUTY EROSION CONTROL BLANKET & SEEDING CL 2A
-  STONE RIPRAP (SEE STRUCTURAL PLANS)
-  PERIMETER EROSION BARRIER

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Ciorba Group, Inc.
 CONSULTING ENGINEERS
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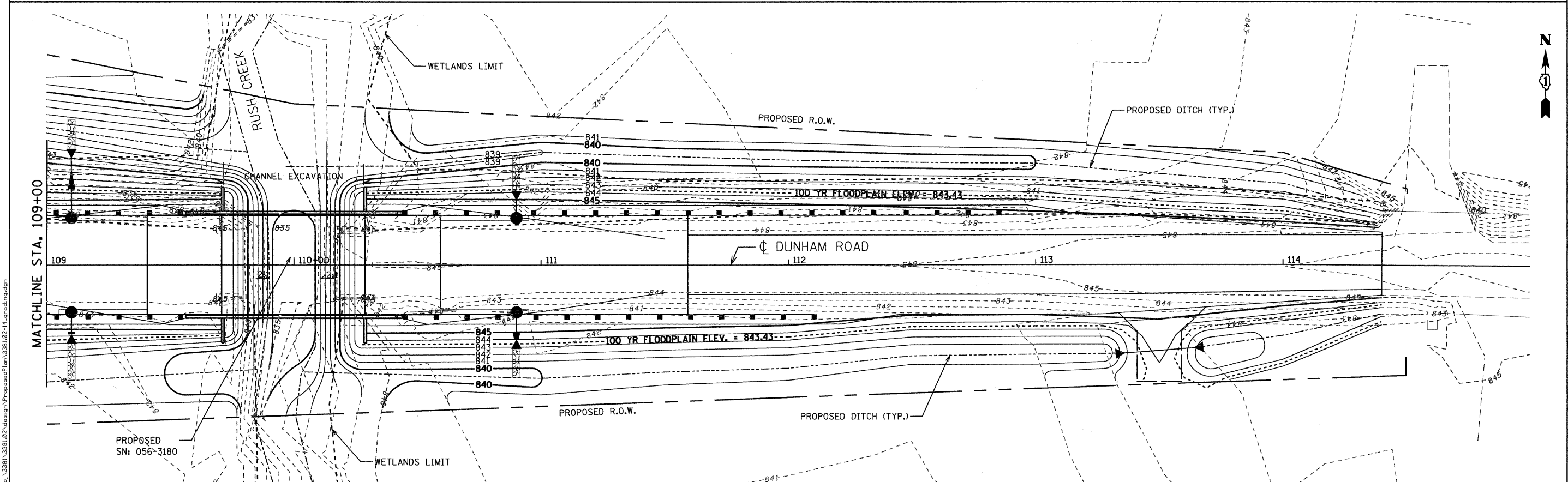
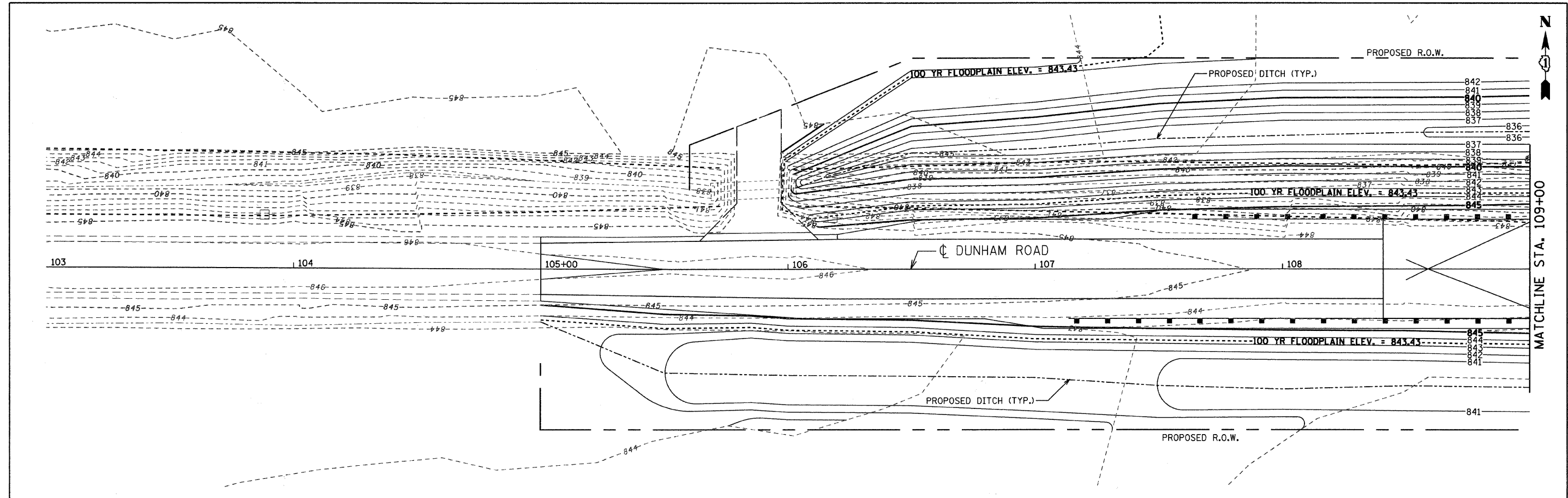
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	DATE - 02/07/2011	REVISED -

MCHENRY COUNTY DIVISION OF TRANSPORTATION

LANDSCAPING AND EROSION CONTROL PLAN

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

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00340-00-BR	MCHENRY	46	13
CONTRACT NO. 63552			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	



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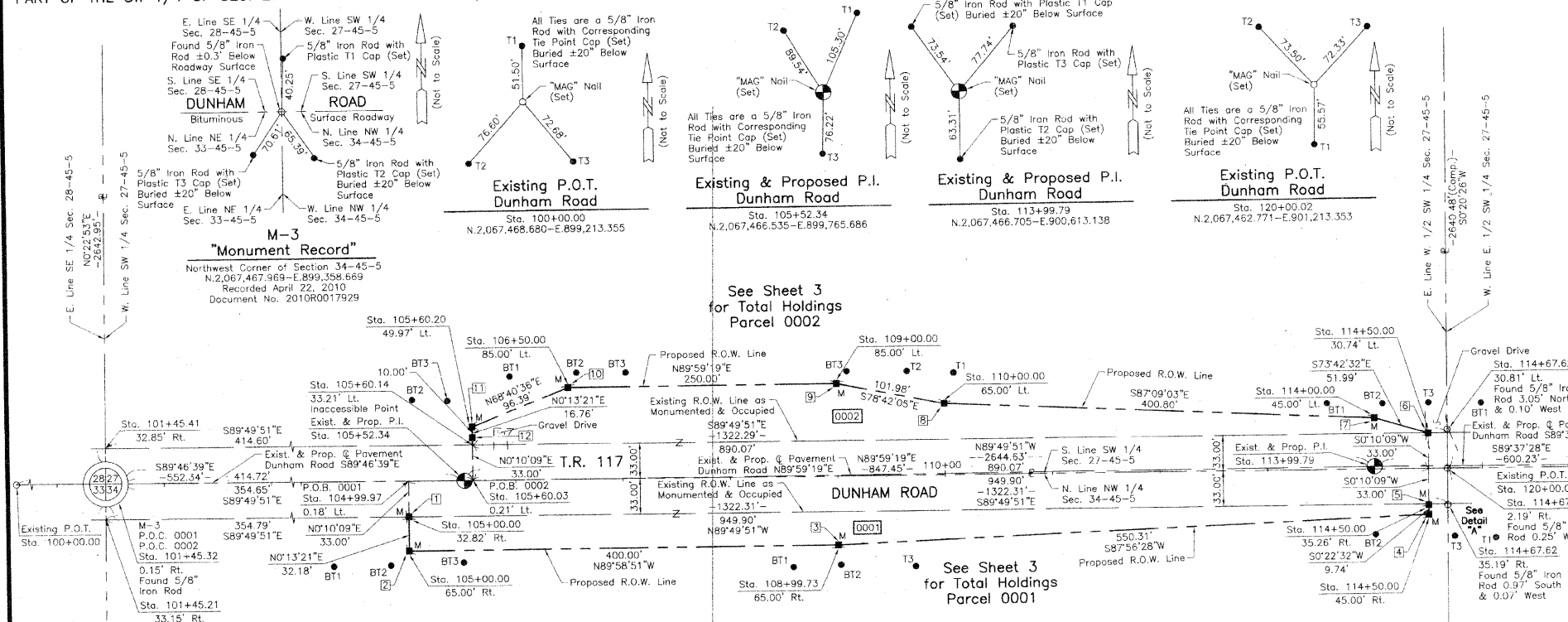
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PLOT DATE = 2/4/2011	CHECKED - CLG	REVISED -
	DATE - 02/07/2011	REVISED -

MCHENRY COUNTY DIVISION OF TRANSPORTATION

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

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00340-00-BR	MCHENRY	46	14
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63552	

PART OF THE SW 1/4 OF SEC. 27 AND PART OF THE NW 1/4 OF SEC. 34, TWP. 45 N., R. 5 E. OF THE 3RD. P.M., IN McHENRY COUNTY, ILLINOIS.



LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION LINE
- QUARTER SECTION LINE
- EXISTING RIGHT OF WAY LINE
- PLATTED LOT LINE
- PROPERTY (DEED) LINE
- APL APPARENT PROPERTY LINE
- CENTER LINE
- PROPOSED RIGHT OF WAY LINE
- PROPOSED EASEMENT
- MEASURED DIMENSION
- COMPUTED DIMENSION
- RECORD DATA
- EXISTING BUILDING

Bearings and Coordinates are referenced to the Illinois Coordinate System NAD 83(2007) East Zone.

O 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" IRON ROD FLUSH WITH GROUND TO THE 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" IRON ROD 20 INCHES BELOW GROUND TO THE FOUND IRON STAKE, IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 BT2
 BT3
 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" IRON METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 P PERMANENT SURVEY MARKER, I.D.O.T. STATION 2135 (TO BE SET BY OTHERS)
 □ RIGHT OF WAY STAKING PROPOSED TO BE SET.

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
0001	Cosman Farms, LLC, an Illinois limited liability company.	*39.977	1.268	0.720	*38.709	N/A	N/A	06-34-100-001	
0002	Cosman Farms, LLC, an Illinois limited liability company.	**80.135	1.372	0.674	**78.763	N/A	N/A	06-27-300-001	

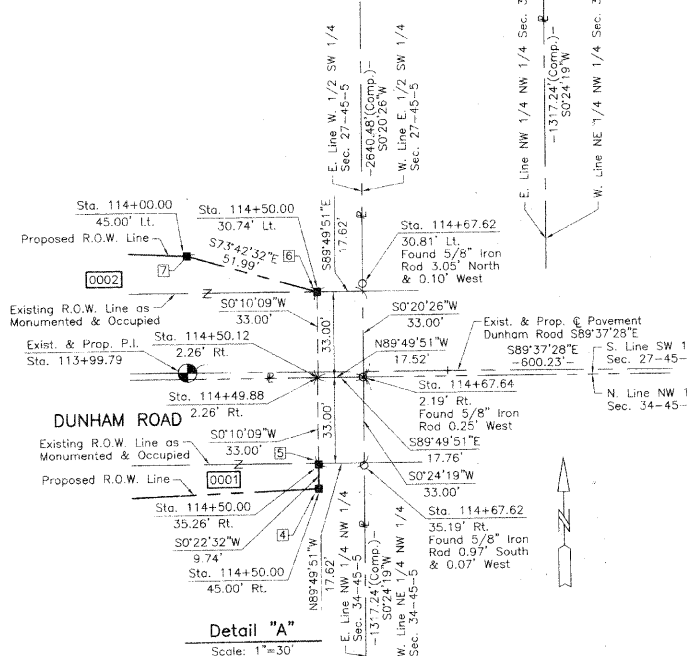
* Area based on that part lying in the NW 1/4 NW 1/4 of Sec. 34-45-5 Only.
 ** Area based on that part lying in the West 1/2 SW 1/4 of Sec. 27-45-5 Only.

COORDINATE TABLE

STATION	OFFSET	NORTH	EAST
105+60.03	0.21' Lt.	2,067,466.745	899,773.383
105+60.14	33.21' Lt.	2,067,499.745	899,773.480
105+60.20	49.97' Lt.	2,067,516.555	899,773.545
106+50.00	85.00' Lt.	2,067,551.555	899,863.334
108+99.73	65.00' Rt.	2,067,401.605	900,113.099
109+00.00	85.00' Lt.	2,067,551.605	900,113.334
110+00.00	65.00' Lt.	2,067,531.625	900,213.338
114+00.00	45.00' Lt.	2,067,511.702	900,613.646
114+49.88	2.26' Rt.	2,067,464.118	900,663.216
114+50.00	30.74' Lt.	2,067,497.117	900,663.552
114+50.00	35.26' Rt.	2,067,431.118	900,663.119
114+50.00	45.00' Rt.	2,067,421.377	900,663.055
114+50.12	2.26' Rt.	2,067,464.117	900,663.454
114+67.52	30.81' Lt.	2,067,497.065	900,661.173
114+67.52	35.19' Rt.	2,067,431.066	900,680.743
114+67.54	2.19' Rt.	2,067,464.066	900,680.976

Schedule of Ties

Point Number	Tie to point	Tie Distance (feet)
1	BT1	84.00
	BT2	48.66
	BT3	66.88
2	BT1	71.62
	BT2	21.69
	BT3	52.14
3	BT1	46.57
	BT2	18.57
	BT3	74.73
4	T1	68.05
	T2	52.84
	T3	31.47
5	T1	69.91
	BT2	56.96
	T3	38.51
6	BT1	56.54
	BT2	50.80
	T3	28.22



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 27, TOWNSHIP 45N., RANGE 5E. AND SECTION 34, TOWNSHIP 45N., RANGE 5E., OF 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 22nd DAY OF April 2012 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.

Note: Surface Coordinates are Shown

COORDINATE TABLE

STATION	OFFSET	NORTH	EAST
101+45.21	33.15' Rt.	2,067,434.970	899,358.439
101+45.32	0.15' Lt.	2,067,467.969	899,358.669
101+45.41	32.85' Lt.	2,067,500.968	899,358.888
104+99.97	0.18' Lt.	2,067,466.922	899,713.322
105+00.00	32.82' Rt.	2,067,433.922	899,713.224
105+00.00	65.00' Rt.	2,067,401.739	899,713.099

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
 T.R. 117 (DUNHAM ROAD)
 SECTION 07-00340-00-BR McHENRY COUNTY
 PROJECT BHM-8003(855) JOB NO. R-91-001-08
 STATION 100+00.00 TO STATION 120+00.02
 SCALE: 1"=60'

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

Ciorba Group, Inc.
 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60656
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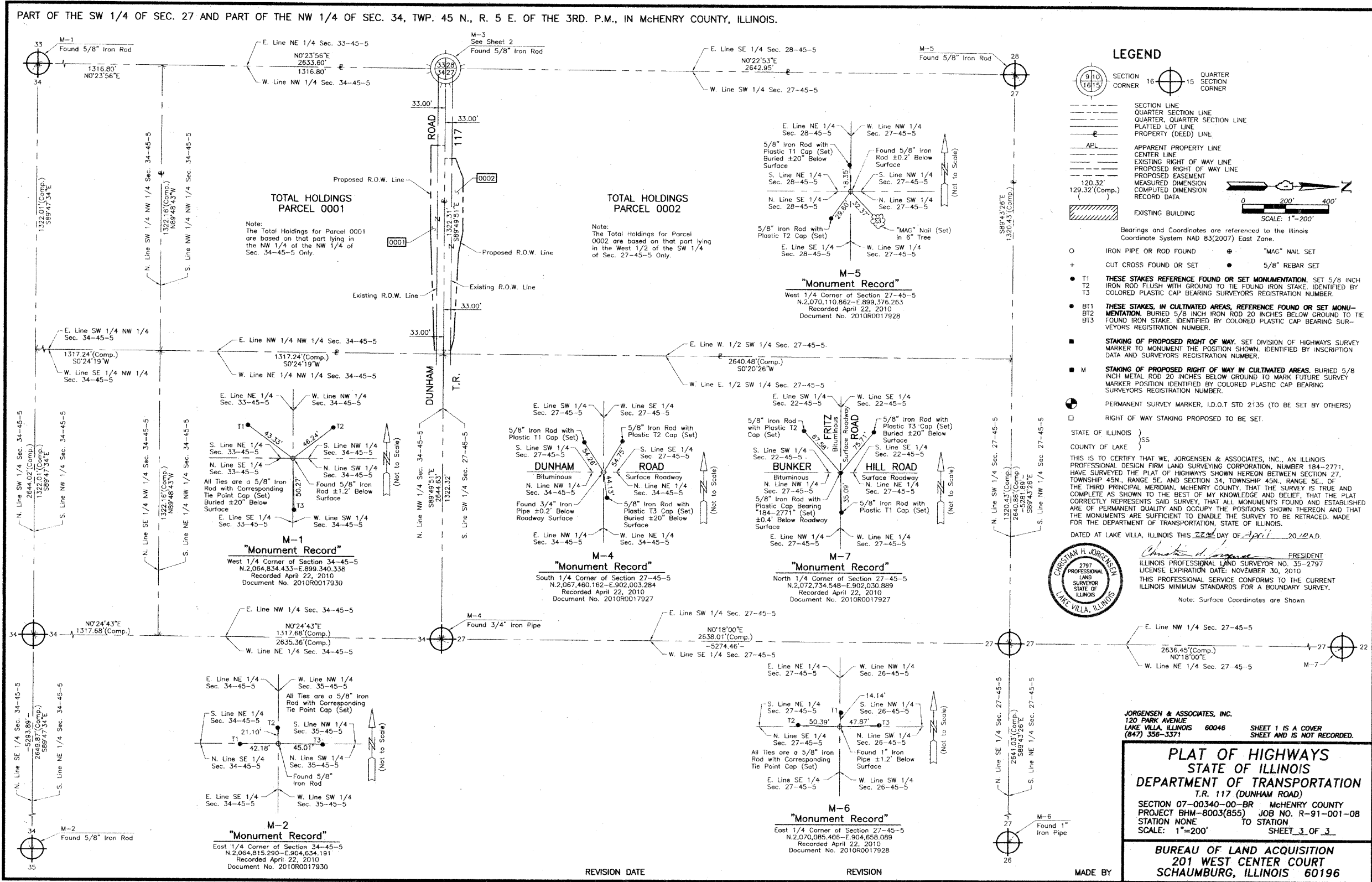
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	DATE - 02/07/2011	REVISED -

MCHENRY COUNTY DIVISION OF TRANSPORTATION

PLAT OF HIGHWAYS

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

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00340-00-BR	MCHENRY	46	15
CONTRACT NO. 63552				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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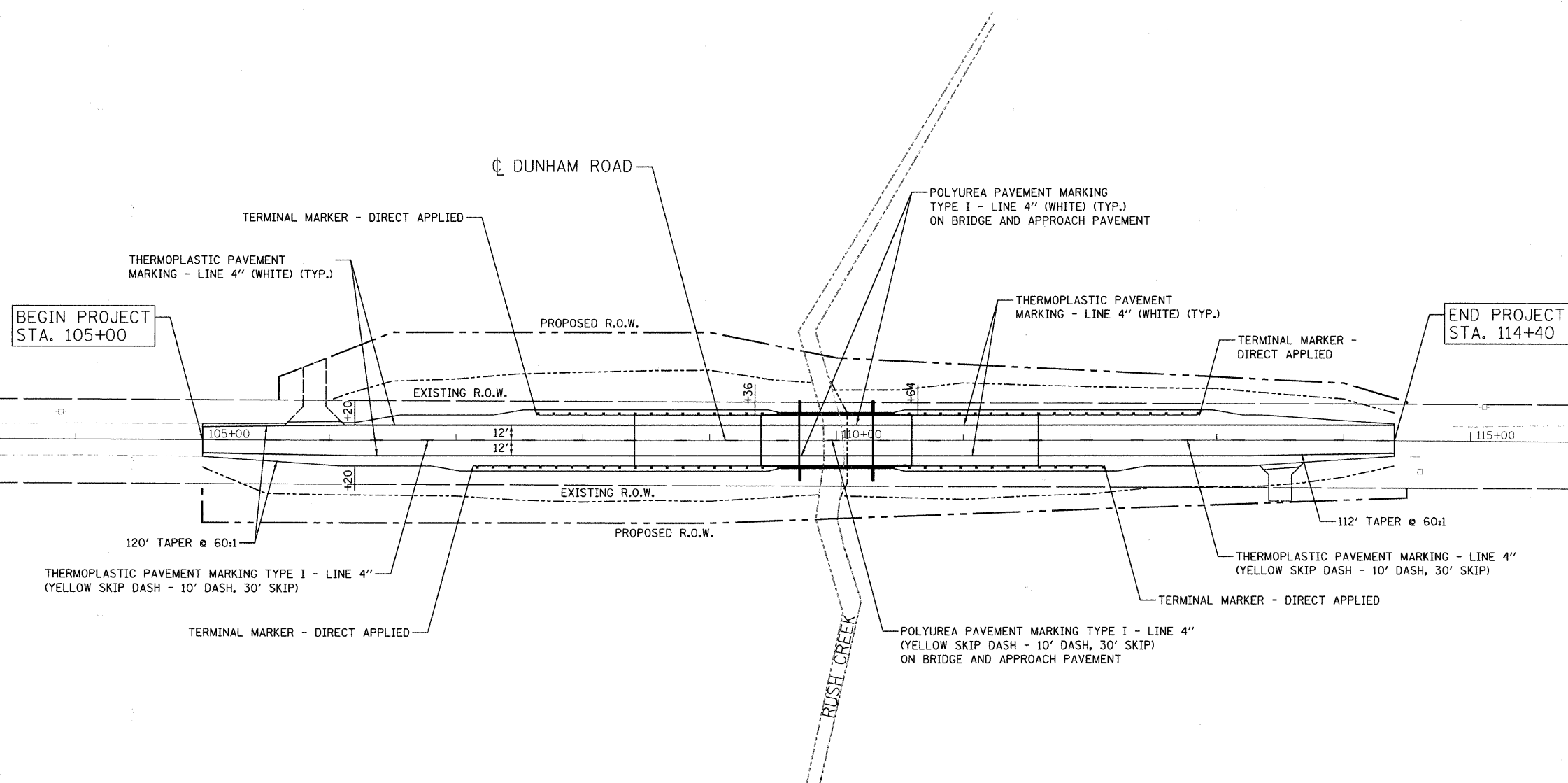
Corba Group, Inc.
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5507 North Cumberland Avenue, Suite 402
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	DATE - 02/07/2011	REVISED -

McHENRY COUNTY DIVISION OF TRANSPORTATION

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

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00340-00-BR	McHENRY	46	16
CONTRACT NO. 63552				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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	DATE - 02/07/2011	REVISED -

MCHENRY COUNTY DIVISION OF TRANSPORTATION

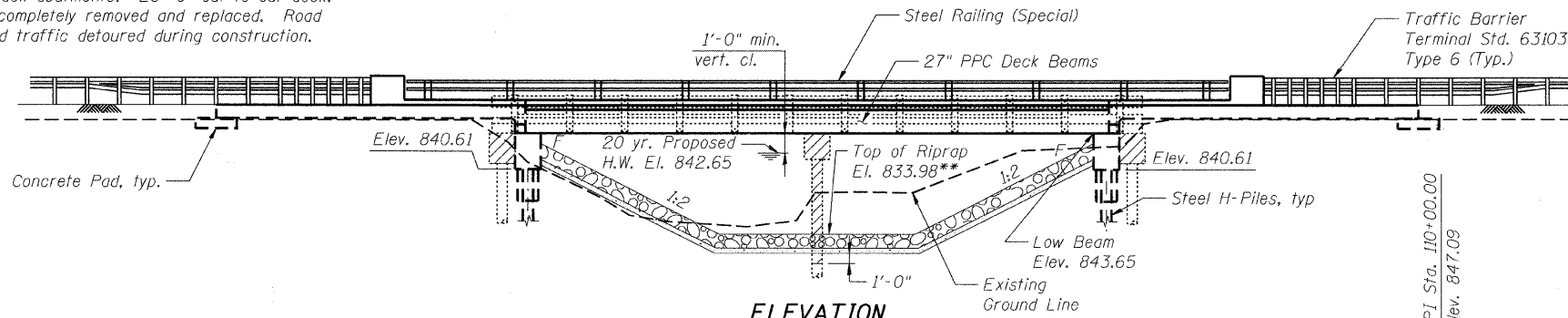
PAVEMENT MARKING & SIGNING PLAN
 SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00340-00-BR	MCHENRY	46	17
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 63552	

Benchmark: BM #2, Nail in third power pole west of bridge. Sta. 103+90, 23' Lt., Elev. 846.41.

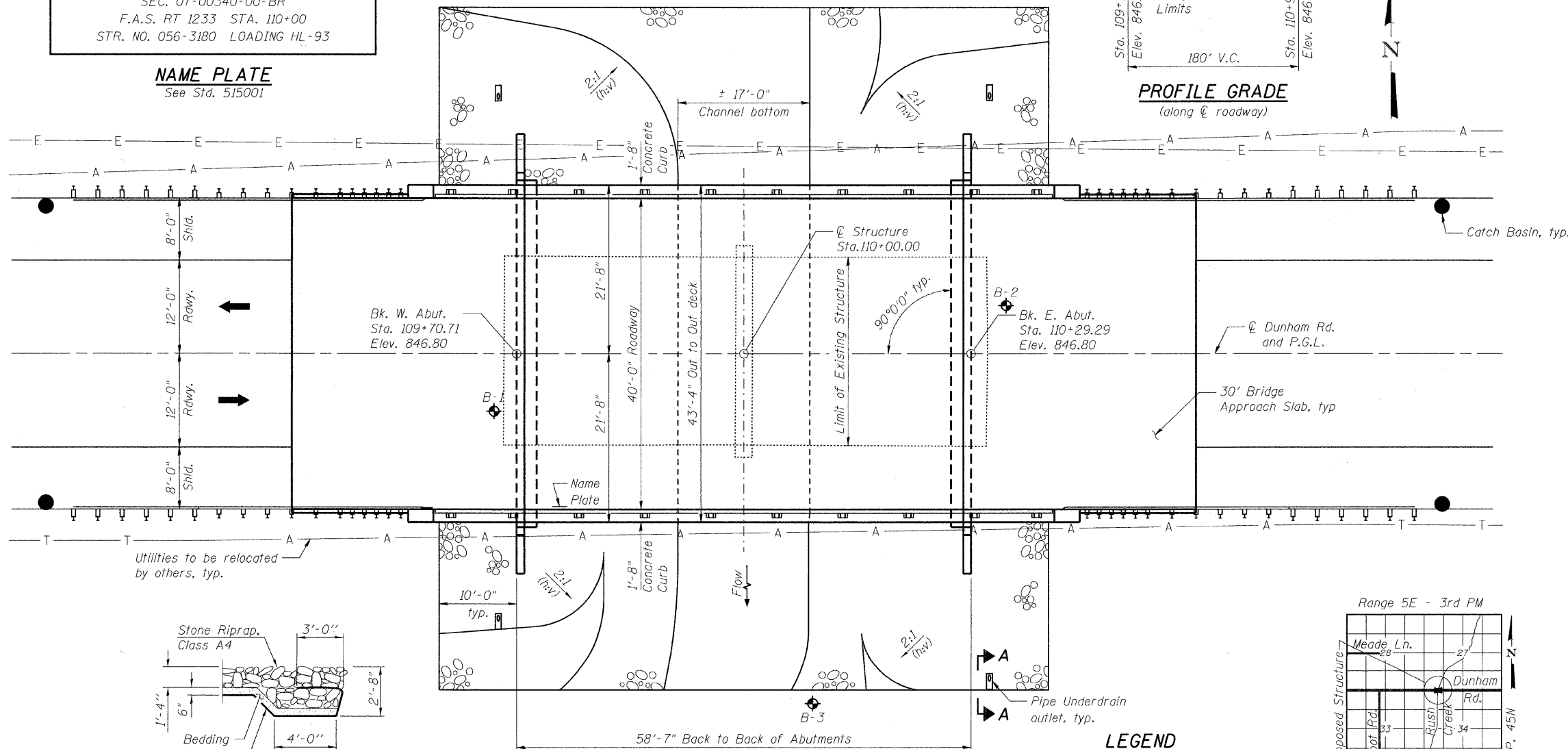
Existing Structure: S.N. 056-3110 built 1970. Structure consists of two span deck beams with bituminous overlay supported by stub abutments and open concrete pile bent pier. 63'-7" back to back abutments. 26'-0" out to out deck. Structure to be completely removed and replaced. Road will be closed and traffic detoured during construction.

No Salvage.



RUSH CREEK
BUILT 2011 BY
MCHENRY COUNTY DIVISION OF TRANSPORTATION
SEC. 07-00340-00-BR
F.A.S. RT 1233 STA. 110+00
STR. NO. 056-3180 LOADING HL-93

NAME PLATE
See Std. 515001

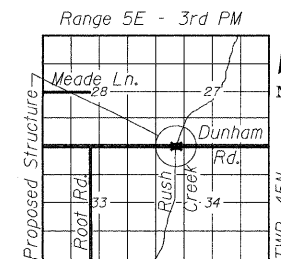


SECTION A-A

See Grading Detail for slope configuration.

LEGEND

- ◆ Indicates Soil Boring Location
- ▭ Limits of Removal



DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	W. Abut. 840.61	E. Abut. 840.61
------------------------------	-----------------	-----------------

WATERWAY INFORMATION

Drainage Area = 16.67 sq. mi.	Existing Low Grade Elev. = 844.75 ft. @ Sta. 108+50	Proposed Low Grade Elev. = 845.63 ft. @ Sta. 112+94					
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist. Prop.	Nat. H.W.E.	Head - Ft. Exist. Prop.	Headwater El. Exist. Prop.	
Design	10	998	216.08 247.69	842.44	0.12	0.00	842.56 842.36
Design	20	1179	241.07 272.55	842.94	0.13	0.00	843.07 842.87
Design	50	1470	268.65 299.51	843.52	0.19	0.00	843.71 843.45
Design	100	1660	282.28 312.83	843.82	0.25	0.00	844.07 843.76
Design	>500						
Max. Calc.	500	2110	291.29 331.02	844.49	0.63	0.09	845.12 844.58

* Headwater elevations taken 75' upstream of the bridge due to junction influences
20 year velocity through existing bridge = 5.2 fps.
20 year velocity through proposed bridge = 4.5 fps.

LOADING HL-93

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

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications with Interims

DESIGN STRESSES

FIELD UNITS

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

PRECAST PRESTRESSED UNITS

f'c = 6,000 psi
f'ci = 5,000 psi
fpu = 270,000 psi (1/2" φ low lax. strands)
fpt = 201,960 psi (1/2" φ low lax. strands)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.087g
Design Spectral Acceleration at 0.2 sec. (SD5) = 0.164g
Soil Site Class = D



DATE: 2/4/2011
SEAL EXPIRES: 11/30/2012

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design complies with requirements of the current AASHTO LRFD Bridge Design Specifications.

**GENERAL PLAN & ELEVATION
DUNHAM ROAD OVER RUSH CREEK**

SECTION 07-00340-00-BR

MCHENRY COUNTY

STATION 110+00.00

STRUCTURE NO. 056-3180

FILE NAME = 3381.02 01 General Plan and Elevation.dgn



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DESIGNED - AMK
CHECKED - BWS
DRAWN - RD
PLOT SCALE =
PLOT DATE = 2/4/2011

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CHECKED - BWS
DRAWN - RD
PLOT DATE = 2/4/2011

REVISED -
REVISED -
REVISED -
REVISED -

MCHENRY COUNTY DIVISION OF TRANSPORTATION

SHEET NO. S-1 OF S-18 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00340-00-BR	MCHENRY	46	18
			CONTRACT NO. 63552	

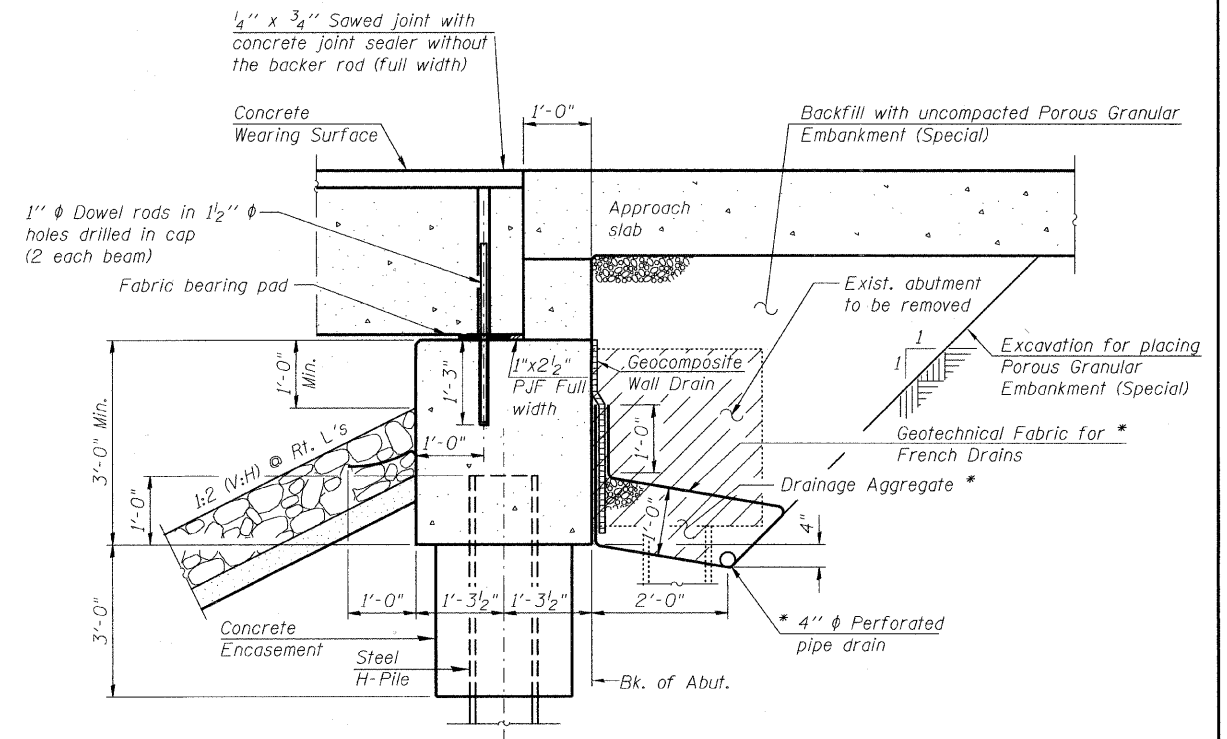
ILLINOIS FED. AID PROJECT

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. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the engineer.
4. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
5. The Contractor shall take extreme caution during all phases of construction to prevent the deposition of any material into Rush Creek. Demolition and construction activities within the floodplain shall be limited to the grading limits shown on the grading detail.
6. The contractor is advised that the existing structure contains members 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 procedures for removal.
7. 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 3704 Floodway Construction permit number allowing permanent construction as shown in the contract plans.

INDEX OF SHEETS

- S-1 General Plan and Elevation
- S-2 General Notes, Bill of Materials and Index of Sheets
- S-3 Top of West Approach Slab Elevations
- S-4 Top of East Approach Slab Elevations
- S-5 Superstructure Plan and Cross Section
- S-6 Superstructure Details
- S-7 Bridge Approach Slab Details 1
- S-8 Bridge Approach Slab Details 2
- S-9 Steel Railing Details
- S-10 27"x36" PPC Deck Beam Details 1
- S-11 27"x36" PPC Deck Beam Details 2
- S-12 27"x48" PPC Deck Beam Details 1
- S-13 27"x48" PPC Deck Beam Details 2
- S-14 Abutment Details
- S-15 HP Pile Details
- S-16 Soil Borings 1
- S-17 Soil Borings 2
- S-18 Soil Borings 3



SECTION THRU ABUTMENT

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

*Included in the cost of the 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 60110).

TOTAL BILL OF MATERIAL

DESCRIPTION	UNIT	ESTIMATED QUANTITY		
		SUPER	SUB	TOTAL
STONE RIPRAP, CLASS A4	SQ YD		727	727
FILTER FABRIC	SQ YD		727	727
REMOVAL OF EXISTING STRUCTURES	EACH	0.5	0.5	1
STRUCTURE EXCAVATION	CU YD		163	163
CONCRETE STRUCTURES	CU YD		61.8	61.8
CONCRETE SUPERSTRUCTURE	CU YD	127.9		127.9
BRIDGE DECK GROOVING	SQ YD	491		491
CONCRETE ENCASEMENT	CU YD		7.7	7.7
PROTECTIVE COAT	SQ YD	576		576
PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	2,434		2,434
REINFORCEMENT BARS, EPOXY COATED	POUND	37,400	5,360	42,760
FURNISHING STEEL PILES HP 12X53	FOOT		1,080	1,080
DRIVING PILES	FOOT		1,080	1,080
TEST PILE STEEL HP 12X53	EACH		2	2
NAME PLATES	EACH	1		1
GEOCOMPOSITE WALL DRAIN	SQ YD		43	43
* POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD		62	62
* CONCRETE WEARING SURFACE, 5"	SQ YD	273		273
* STEEL RAILING (SPECIAL)	FOOT	160		160
* PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT		154	154

* Indicates Special Provision

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FILE NAME = 3381_02_02 General Notes.dgn



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	CHECKED - BWS	REVISED -
PLOT SCALE =	DRAWN - RD	REVISED -
PLOT DATE = 2/11/2011	CHECKED - BWS	REVISED -

MCHENRY COUNTY DIVISION OF TRANSPORTATION

GENERAL NOTES, BILL OF MATERIAL AND INDEX OF SHEETS
STRUCTURE NO. 056-3180
 SHEET NO. S-2 OF S-18 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00340-00-BR	MCHENRY	46	19
			CONTRACT NO. 63552	
ILLINOIS FED. AID PROJECT				

NORTH EDGE OF SHOULDER

Location	Station	Offset (ft)	Theoretical Grade Elevations
W. End West Appr. Pav't.	109+41.71	20.00 Lt.	846.37
A1	109+51.71	20.00 Lt.	846.40
A2	109+61.71	20.00 Lt.	846.43
E. End West Appr. Pav't	109+71.71	20.00 Lt.	846.45

NORTH EDGE OF PAVEMENT

Location	Station	Offset (ft)	Theoretical Grade Elevations
W. End West Appr. Pav't.	109+41.71	12.00 Lt.	846.53
A1	109+51.71	12.00 Lt.	846.57
A2	109+61.71	12.00 Lt.	846.59
E. End West Appr. Pav't	109+71.71	12.00 Lt.	846.62

☉ ROADWAY AND PROFILE GRADE

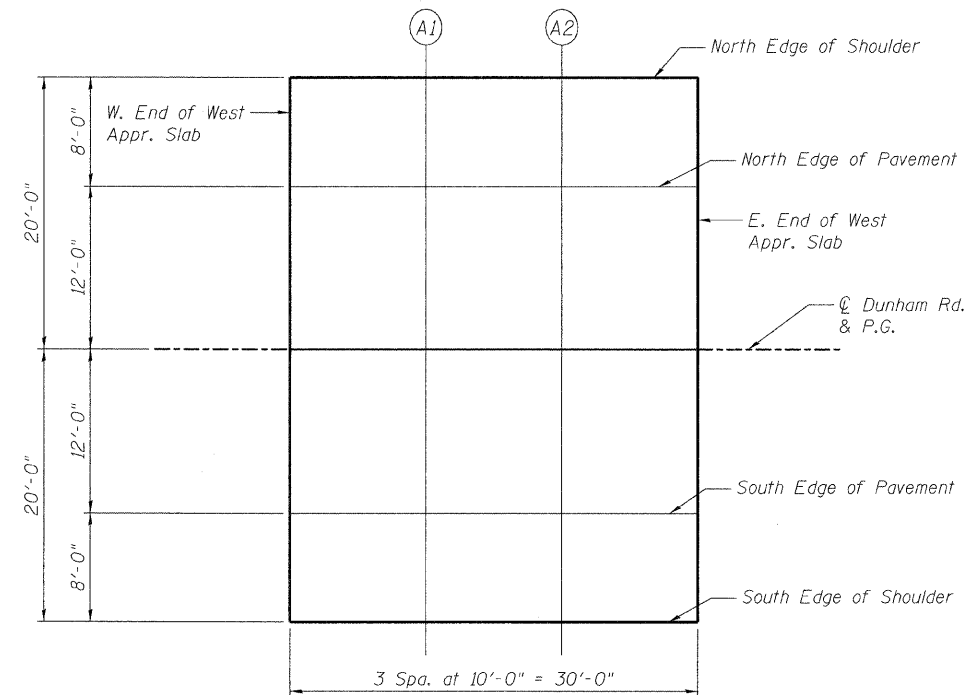
Location	Station	Offset (ft)	Theoretical Grade Elevations
W. End West Appr. Pav't.	109+41.71	0.00	846.72
A1	109+51.71	0.00	846.75
A2	109+61.71	0.00	846.78
E. End West Appr. Pav't	109+71.71	0.00	846.80

SOUTH EDGE OF PAVEMENT

Location	Station	Offset (ft)	Theoretical Grade Elevations
W. End West Appr. Pav't.	109+41.71	12.00 Rt.	846.53
A1	109+51.71	12.00 Rt.	846.57
A2	109+61.71	12.00 Rt.	846.59
E. End West Appr. Pav't	109+71.71	12.00 Rt.	846.62

SOUTH EDGE OF SHOULDER

Location	Station	Offset (ft)	Theoretical Grade Elevations
W. End West Appr. Pav't.	109+41.71	20.00 Rt.	846.37
A1	109+51.71	20.00 Rt.	846.40
A2	109+61.71	20.00 Rt.	846.43
E. End West Appr. Pav't	109+71.71	20.00 Rt.	846.45



PLAN
West Approach

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FILE NAME = 3381.02 03 Top of West Approach Slab Elevations.dgn



USER NAME = espino	DESIGNED - SAT	REVISED -
	CHECKED - AMK	REVISED -
PLOT SCALE =	DRAWN - RD	REVISED -
PLOT DATE = 2/4/2011	CHECKED - BWS	REVISED -

MCHENRY COUNTY DIVISION OF TRANSPORTATION

TOP OF WEST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 056-3180
SHEET NO. S-3 OF S-18 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00340-00-BR	MCHENRY	46	20
				CONTRACT NO. 63552
ILLINOIS FED. AID PROJECT				

NORTH EDGE OF SHOULDER

Location	Station	Offset (ft)	Theoretical Grade Elevations
W. End East Appr. Pav't.	110+28.29	20.00 Lt.	846.45
A3	110+38.29	20.00 Lt.	846.42
A4	110+48.29	20.00 Lt.	846.40
E. End East Appr. Pav't	110+58.29	20.00 Lt.	846.36

NORTH EDGE OF PAVEMENT

Location	Station	Offset (ft)	Theoretical Grade Elevations
W. End East Appr. Pav't.	110+28.29	12.00 Lt.	846.61
A3	110+38.29	12.00 Lt.	846.59
A4	110+48.29	12.00 Lt.	846.56
E. End East Appr. Pav't	110+58.29	12.00 Lt.	846.53

☉ ROADWAY AND PROFILE

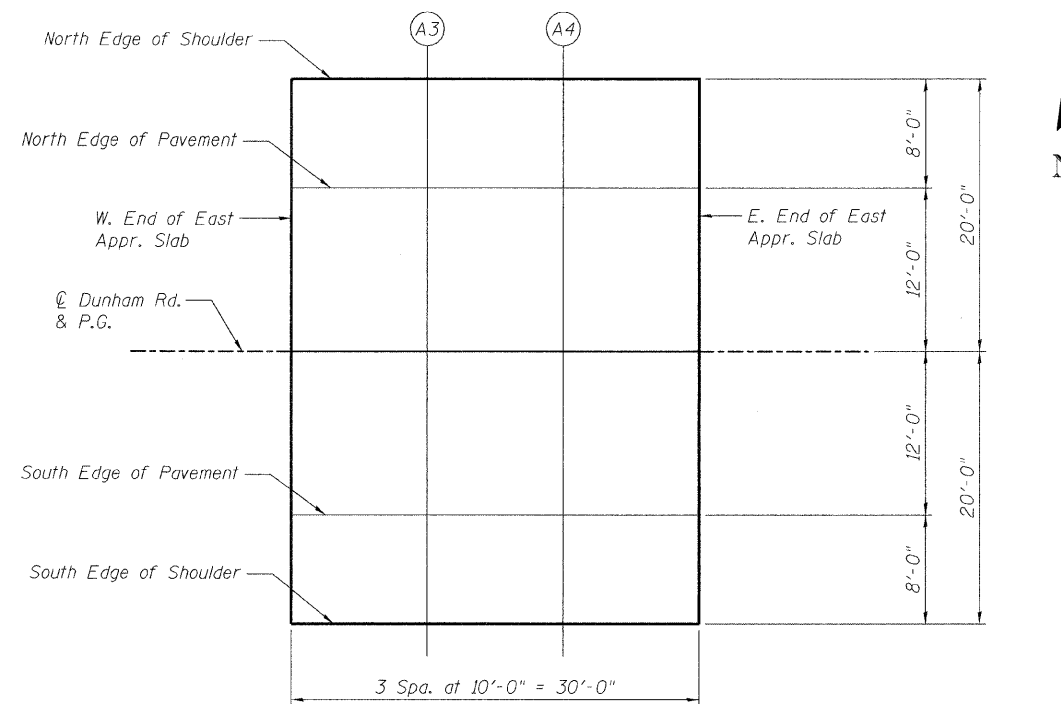
Location	Station	Offset (ft)	Theoretical Grade Elevations
W. End East Appr. Pav't.	110+28.29	0.00	846.80
A3	110+38.29	0.00	846.78
A4	110+48.29	0.00	846.75
E. End East Appr. Pav't	110+58.29	0.00	846.71

SOUTH EDGE OF PAVEMENT

Location	Station	Offset (ft)	Theoretical Grade Elevations
W. End East Appr. Pav't.	110+28.29	12.00 Rt.	846.61
A3	110+38.29	12.00 Rt.	846.59
A4	110+48.29	12.00 Rt.	846.56
E. End East Appr. Pav't	110+58.29	12.00 Rt.	846.53

SOUTH EDGE OF SHOULDER

Location	Station	Offset (ft)	Theoretical Grade Elevations
W. End East Appr. Pav't.	110+28.29	20.00 Rt.	846.45
A3	110+38.29	20.00 Rt.	846.42
A4	110+48.29	20.00 Rt.	846.40
E. End East Appr. Pav't	110+58.29	20.00 Rt.	846.36

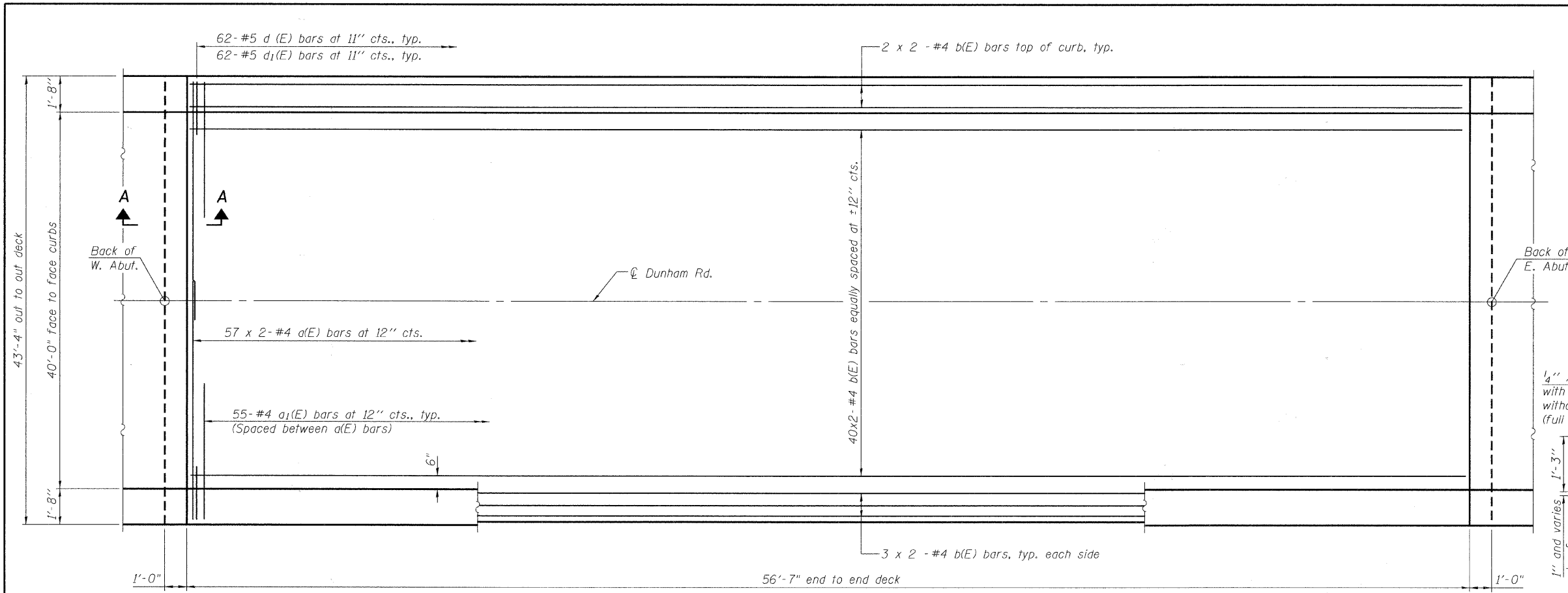


PLAN
East Approach

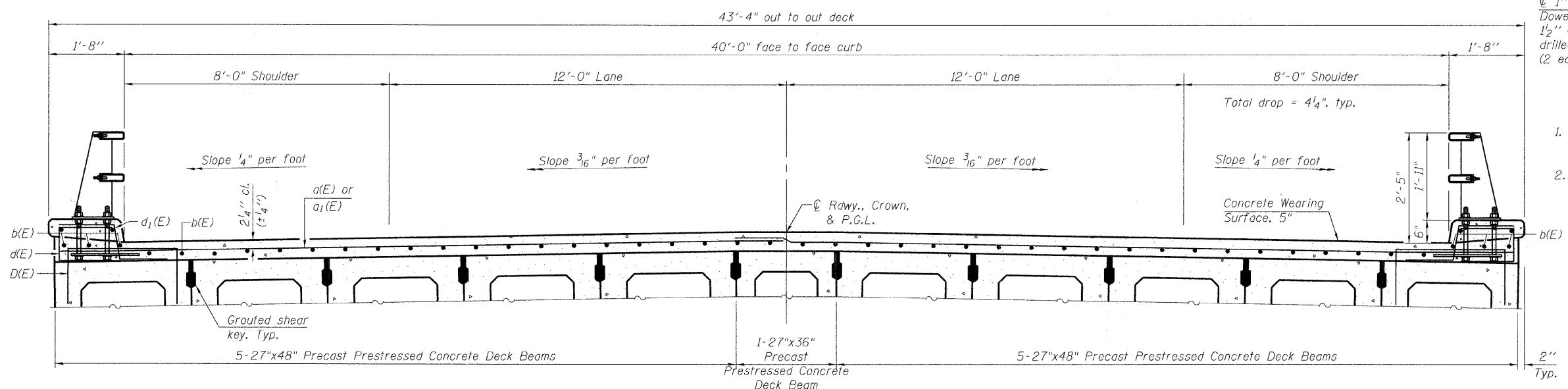
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FILE NAME = 3381.02_04_Top of East Approach Slab Elevations.dgn

<p>Ciorba Group, Inc. CONSULTING ENGINEERS 5202 North Cumberland Avenue Suite 775, Chicago, Illinois 60630 Tel: 773.775.8914 Fax: 773.775.8914 Email: ciorba@ciorgroup.com</p>	USER NAME = espina	DESIGNED - SAT	REVISED -	<p>MCHENRY COUNTY DIVISION OF TRANSPORTATION</p>	<p>TOP OF EAST APPROACH SLAB ELEVATIONS STRUCTURE NO. 056-3180</p>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED - AMK	REVISED -			07-00340-00-BR	MCHENRY	46	21	
PLOT DATE = 2/4/2011	DRAWN - RD	REVISED -						CONTRACT NO. 63552		
	CHECKED - BWS	REVISED -			SHEET NO. S-4 OF S-18 SHEETS					ILLINOIS FED. AID PROJECT

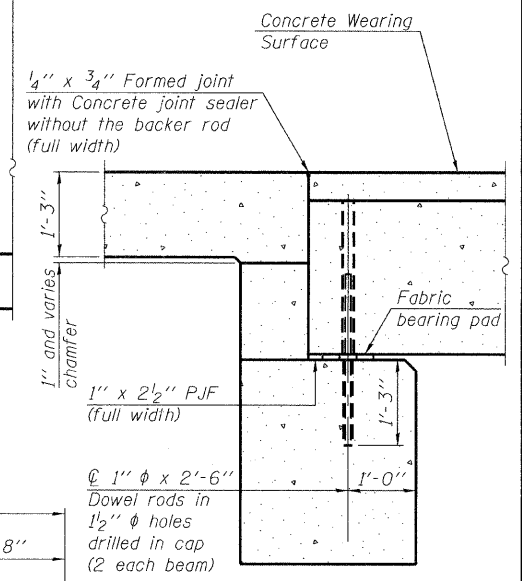


PLAN



CROSS SECTION
(Looking East)

- Notes:
1. See sheet S-6 of S-18 for Superstructure Details and Bill of Material.
 2. Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.
 3. For location of railing posts and anchor bolts see elevation on sheet S-9.



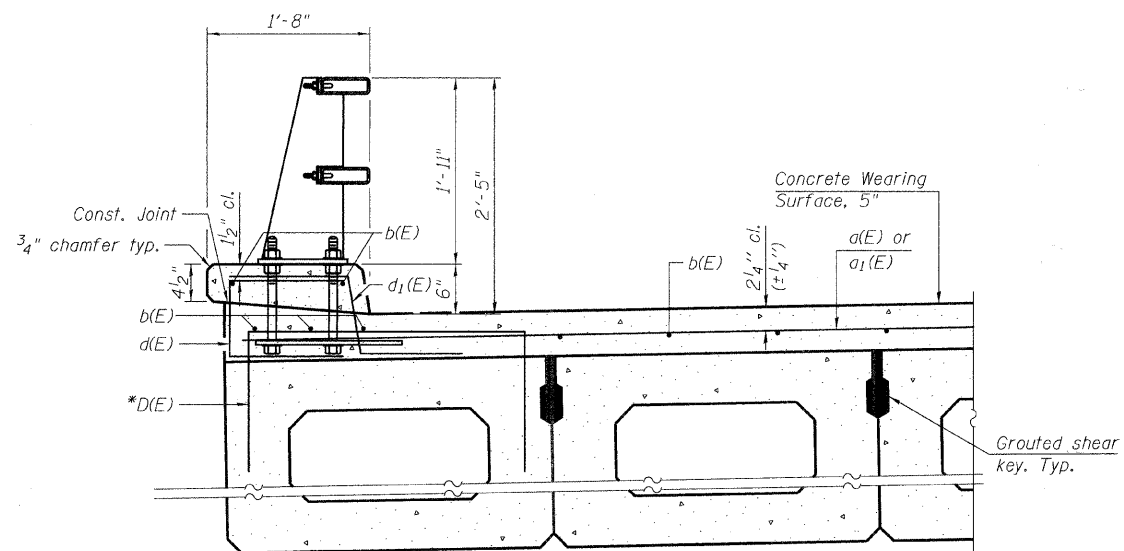
SECTION A-A

- Notes:
1. All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.
 2. See sheet S-13 for fabric bearing pad details.

MINIMUM BAR LAP
#4 bar = 2'-7"

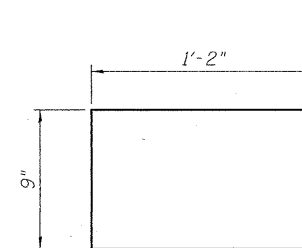
FILE NAME = 3381.02 05 Superstructure Plan and Cross Section.dgn

<p>Clorba Group, Inc. CONSULTING ENGINEERS 5507 West Champaign Avenue Suite 100, Champaign, Illinois 61820 Tel: 773.712.8022 Fax: 773.712.8014 Email: clorba@clorba.com</p>	USER NAME = espina PLOT SCALE = PLOT DATE = 2/4/2011	DESIGNED - AMK CHECKED - BWS DRAWN - RD CHECKED - BWS	REVISED - REVISED - REVISED - REVISED -	MCHENRY COUNTY DIVISION OF TRANSPORTATION	SUPERSTRUCTURE PLAN AND CROSS SECTION STRUCTURE NO. 056-3180 SHEET NO. S-5 OF S-18 SHEETS	F.A. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.	07-00340-00-BR MCHENRY 46 22
						CONTRACT NO. 63552 ILLINOIS FED. AID PROJECT	

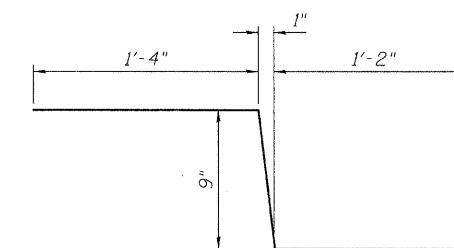


SECTION THRU PARAPET

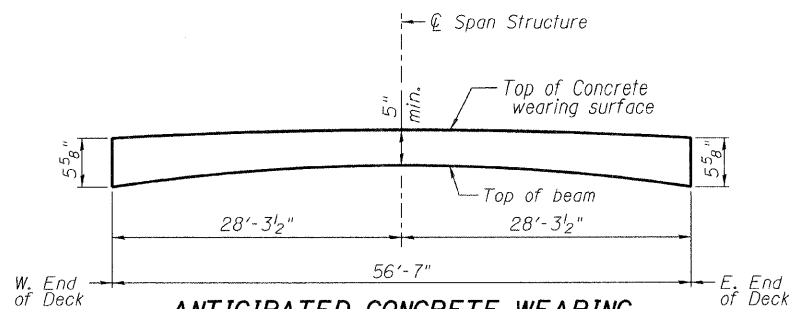
* Place #4 D(E) bars spaced as shown on sheet S-12 in fascia beam. D(E) bar included in cost of beam. Curb paid for as Concrete Superstructure.



BAR d(E)



BAR d₁(E)



ANTICIPATED CONCRETE WEARING SURFACE PROFILE

(For information only)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	114	#4	22'-9"	—
a ₁ (E)	110	#4	6'-0"	—
b(E)	90	#4	29'-5"	—
d(E)	124	#5	3'-1"	⊓
d ₁ (E)	124	#5	3'-3"	⊓
Reinforcement Bars, Epoxy Coated			Pound	4,770
Protective Coat			Sq. Yd.	279
Concrete Superstructure			Cu. Yd.	3.1
Concrete Wearing Surface, 5"			Sq. Yd.	273
Bridge Deck Grooving			Sq. Yd.	239

Bars indicated thus 1 x 2 - #4 etc. indicates 1 line of bars with 2 lengths per line.

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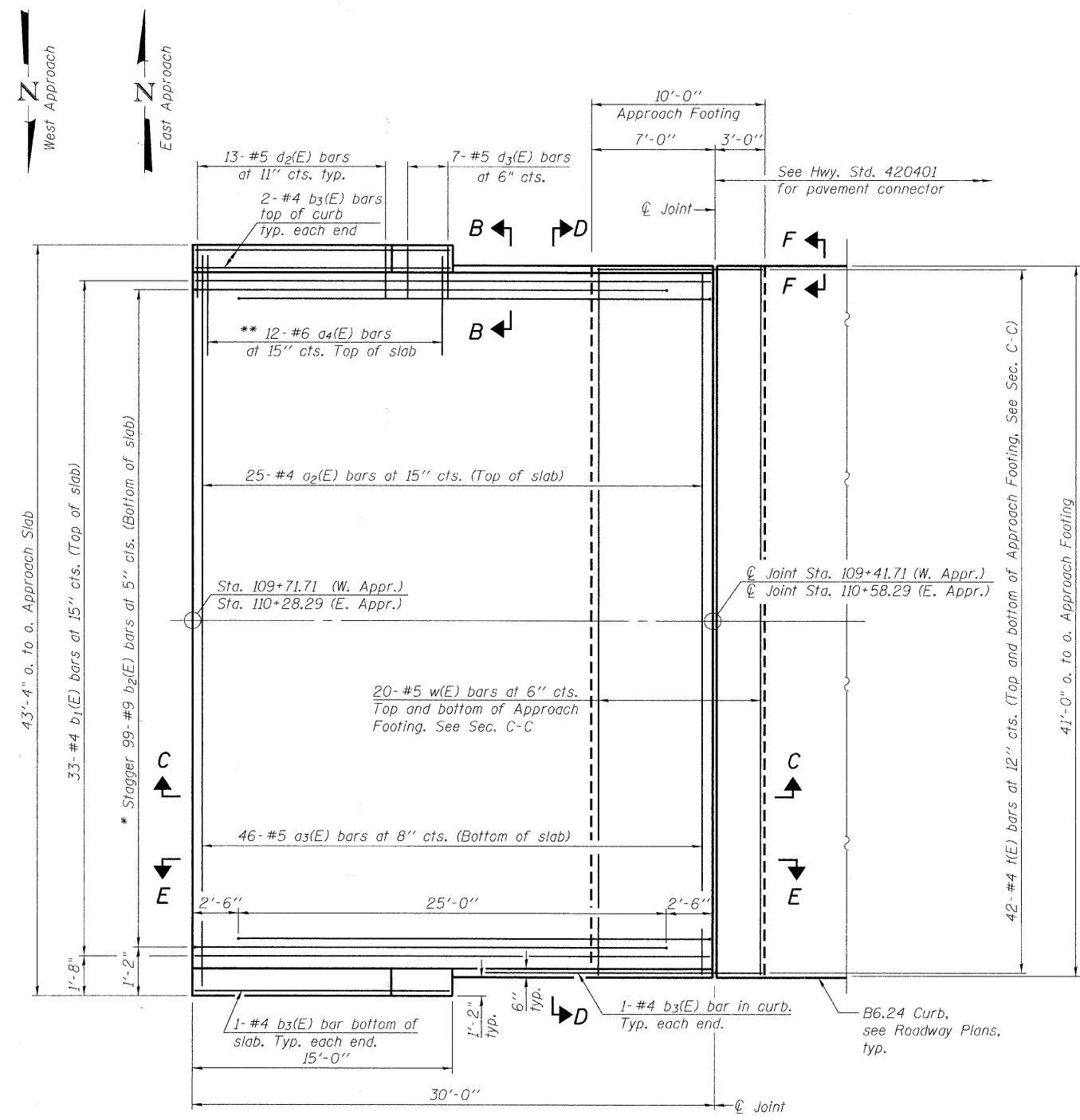


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PLOT SCALE =	CHECKED - BWS	REVISED -
PLOT DATE = 2/11/2011	DRAWN - RD	REVISED -
	CHECKED - BWS	REVISED -

MCHENRY COUNTY DIVISION OF TRANSPORTATION

**SUPERSTRUCTURE DETAILS
STRUCTURE NO. 056-3180**
SHEET NO. S-6 OF S-18 SHEETS

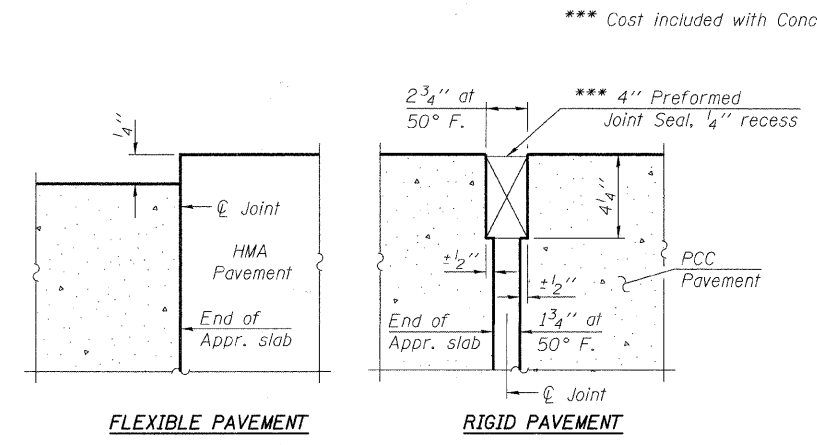
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00340-00-BR	MCHENRY	46	23
			CONTRACT NO. 63552	
ILLINOIS FED. AID PROJECT				



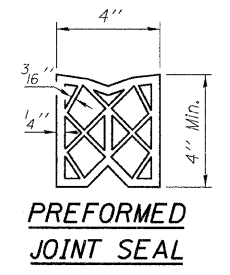
PLAN

* Tilt #9 b₂(E) bars as required to maintain clearance.
 ** Space between a₂(E) bars, typ. ea. parapet.

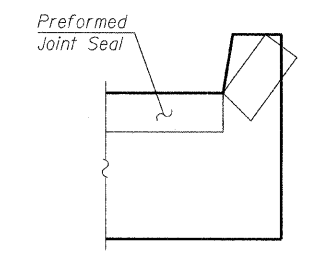
Notes:
 1. See sheet S-8 for Sections C-C & D-D and View E-E.
 2. a₂(E) and a₃(E) bar spacings measured along \varnothing Rdwy.



DETAIL A

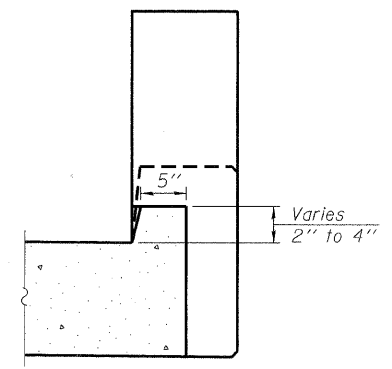


PREFORMED JOINT SEAL



VIEW F-F

Angle Preformed Joint Seal at 45° at curbs when req'd for drainage.



VIEW B-B

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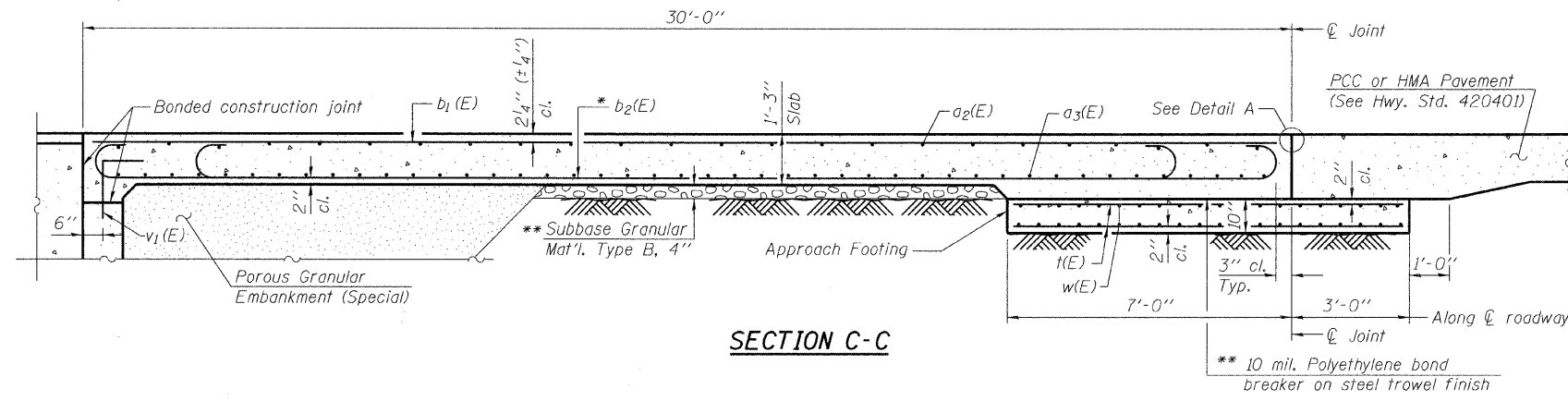
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MCHENRY COUNTY DIVISION OF TRANSPORTATION

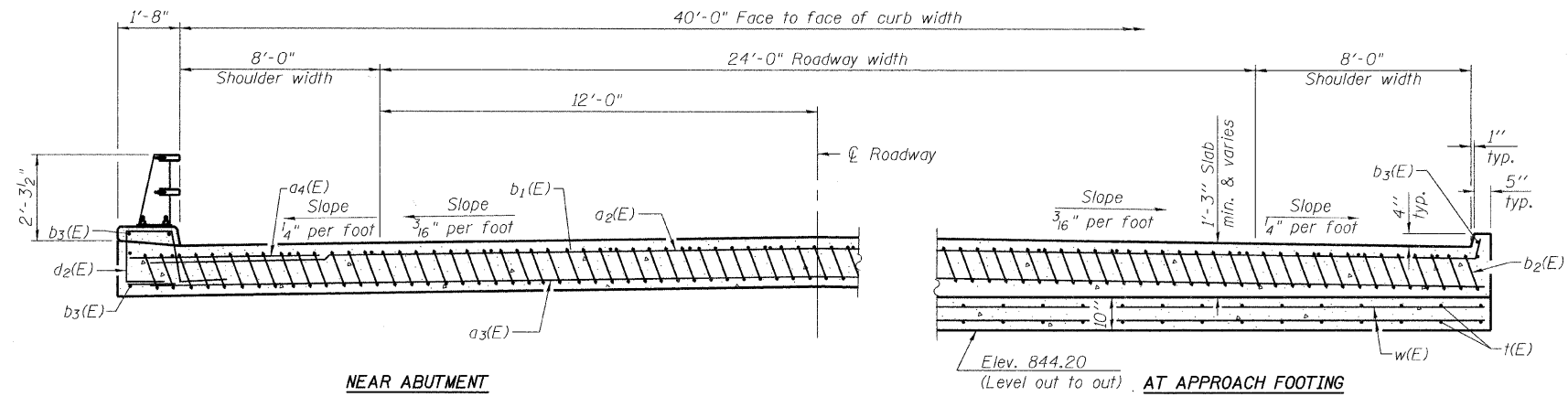
BRIDGE APPROACH SLAB DETAILS 1
STRUCTURE NO. 056-3180

SHEET NO. S-7 OF S-18 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00340-00-BR	MCHENRY	46	24
CONTRACT NO. 63552			ILLINOIS FED. AID PROJECT	

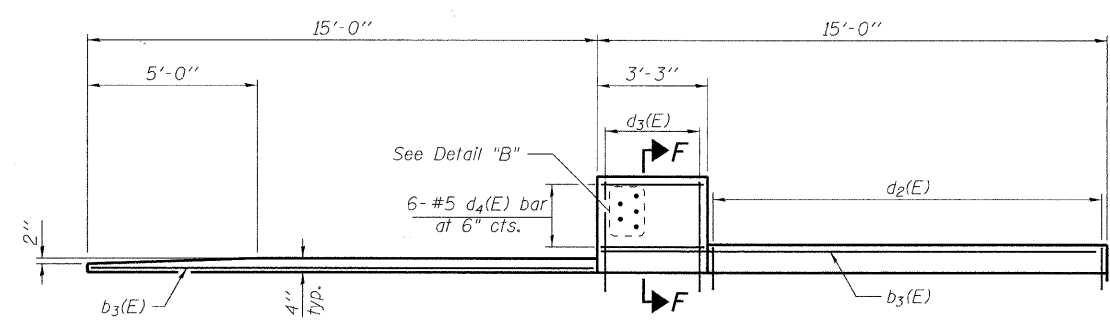


SECTION C-C

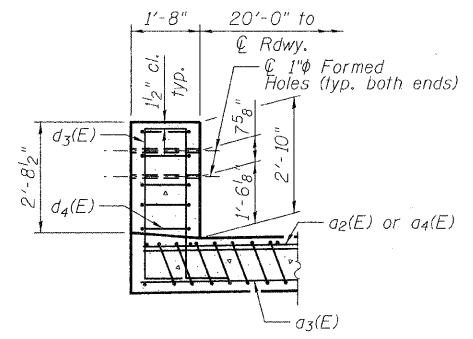


SECTION D-D
(See Plan for dimensions not shown)

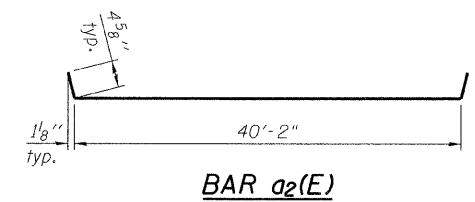
* Tilt #9 b₂(E) bars as required to maintain clearance.
** Cost included with Concrete Superstructure.



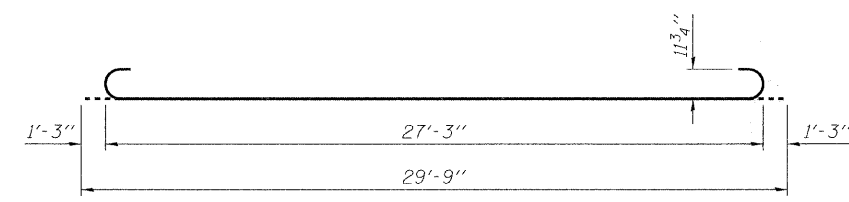
VIEW E-E



SECTION F-F

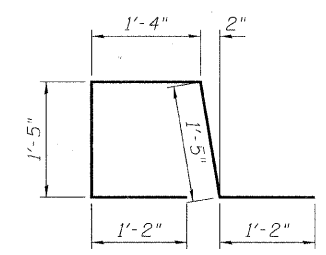


BAR a₂(E)

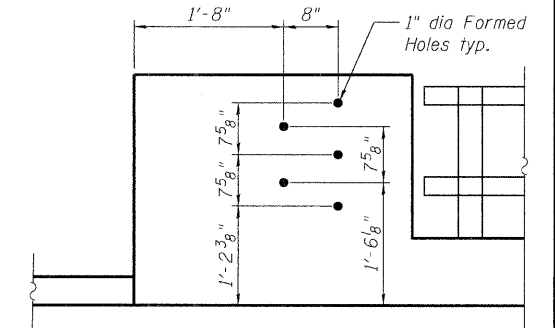


BAR b₂(E)

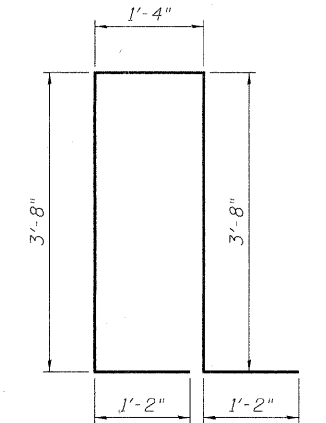
- Notes:
1. See sheet S-7 for Detail A and View B-B.
 2. Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
 3. Approach footing concrete shall be paid for as Concrete Structures.
 4. Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 5. For v₁(E) bar details, see sheet S-14.
 6. The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
 7. Cost of excavation for approach footing included with Concrete Structures.
 8. For Porous Granular Embankment (Special) and drainage treatment details, see sheet S-2.
 9. For additional curb details, see sheet S-6.



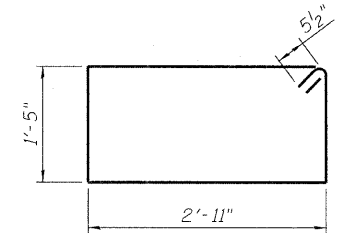
BAR d₂(E)



DETAIL "B"



BAR d₃(E)



BAR d₄(E)

**TWO APPROACHES
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a ₂ (E)	50	#4	40'-11"	—
a ₃ (E)	92	#5	40'-8"	—
a ₄ (E)	48	#6	6'-6"	—
b ₁ (E)	66	#4	29'-8"	—
b ₂ (E)	198	#9	29'-9"	—
b ₃ (E)	16	#4	14'-8"	—
d ₂ (E)	52	#5	6'-6"	□
d ₃ (E)	28	#5	11'-0"	□
d ₄ (E)	24	#5	9'-7"	□
t(E)	168	#4	9'-8"	—
w(E)	80	#5	40'-8"	—
Concrete Superstructure		Cu. Yd.	124.8	
Bridge Deck Grooving		Sq. Yd.	252	
Concrete Structures		Cu. Yd.	25.4	
Protective Coat		Sq. Yd.	297	
Reinforcement Bars, Epoxy Coated		Pound	32,630	

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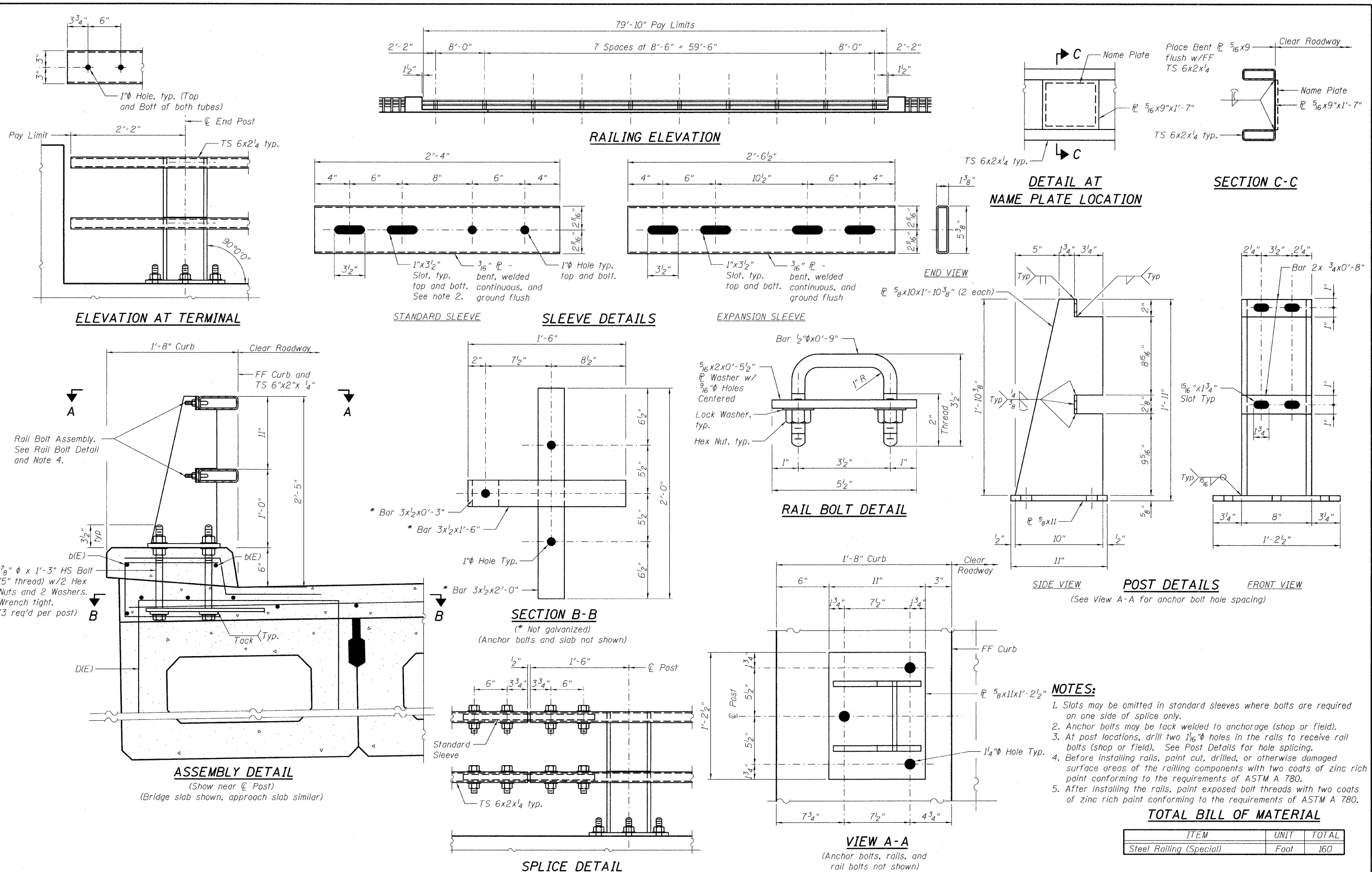
Clorba Group, Inc.
CONSULTING ENGINEERS
5501 West Champaign Avenue
Suite 100, Champaign, Illinois 61820
Tel: 773.772.8029
Fax: 773.772.8014
Email: clorba@clorba.com

USER NAME = espino	DESIGNED - AMK	REVISED -
PLLOT SCALE =	CHECKED - BWS	REVISED -
PLLOT DATE = 2/4/2011	DRAWN - RD	REVISED -
	CHECKED - BWS	REVISED -

MCHENRY COUNTY DIVISION OF TRANSPORTATION

**BRIDGE APPROACH SLAB DETAILS 2
STRUCTURE NO. 056-3180**
SHEET NO. S-8 OF S-18 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00340-00-BR	MCHENRY	46	25
			CONTRACT NO. 63552	
ILLINOIS FED. AID PROJECT				



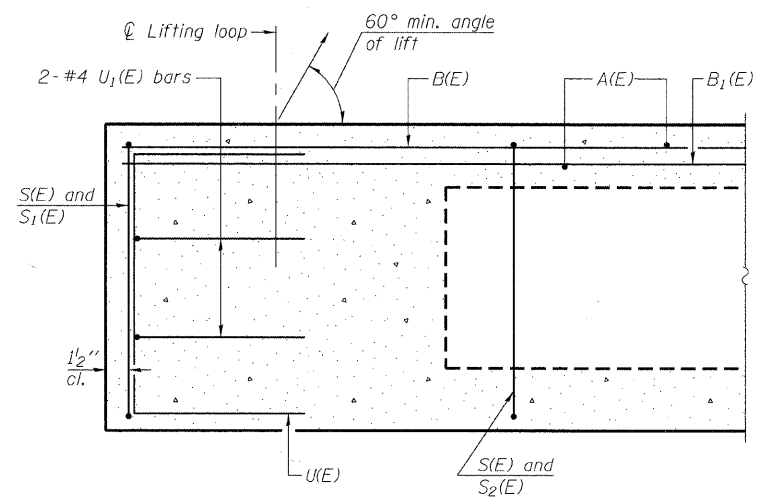
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Clorba Group, Inc. CONSULTING ENGINEERS 5011 North Cumberland Avenue Suite 205, Chicago, Illinois 60630 Tel: 773.776.2000 Fax: 773.776.4014 Email: clorba@clorba.com	USER NAME = espina	DESIGNED - AMK	REVISED -
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	PLOT DATE = 2/11/2011	DRAWN - RD	REVISED -
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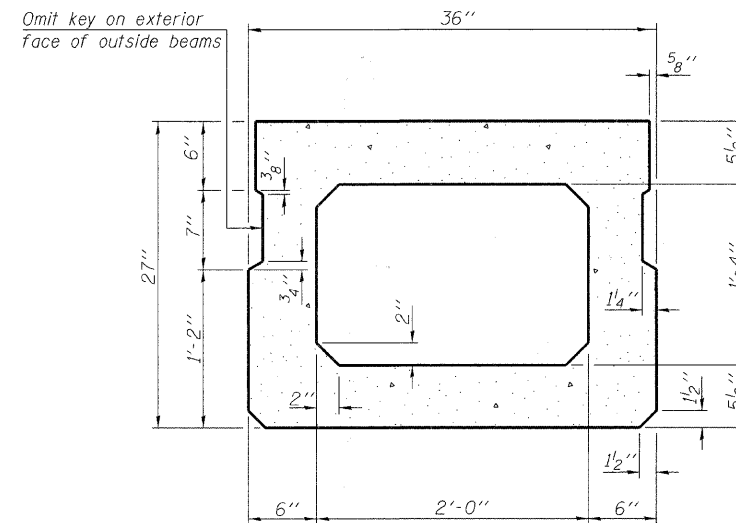
MCHENRY COUNTY DIVISION OF TRANSPORTATION	
STEEL RAILING DETAILS STRUCTURE NO. 056-3180	
SHEET NO. S-9 OF S-18 SHEETS	

ITEM	UNIT	TOTAL
Steel Railing (Special)	Foot	160

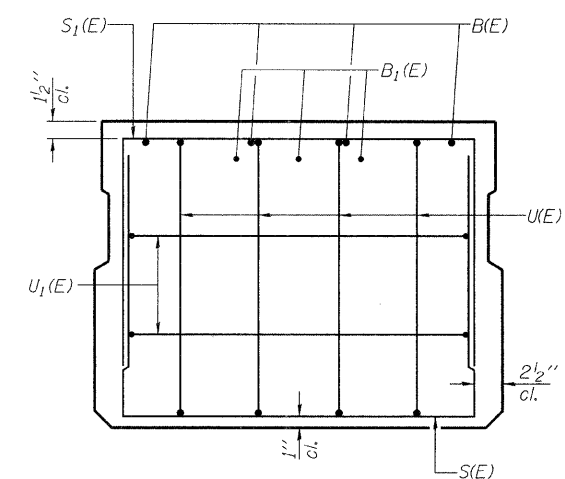
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			CONTRACT NO. 63552	
ILLINOIS FED. AID PROJECT				



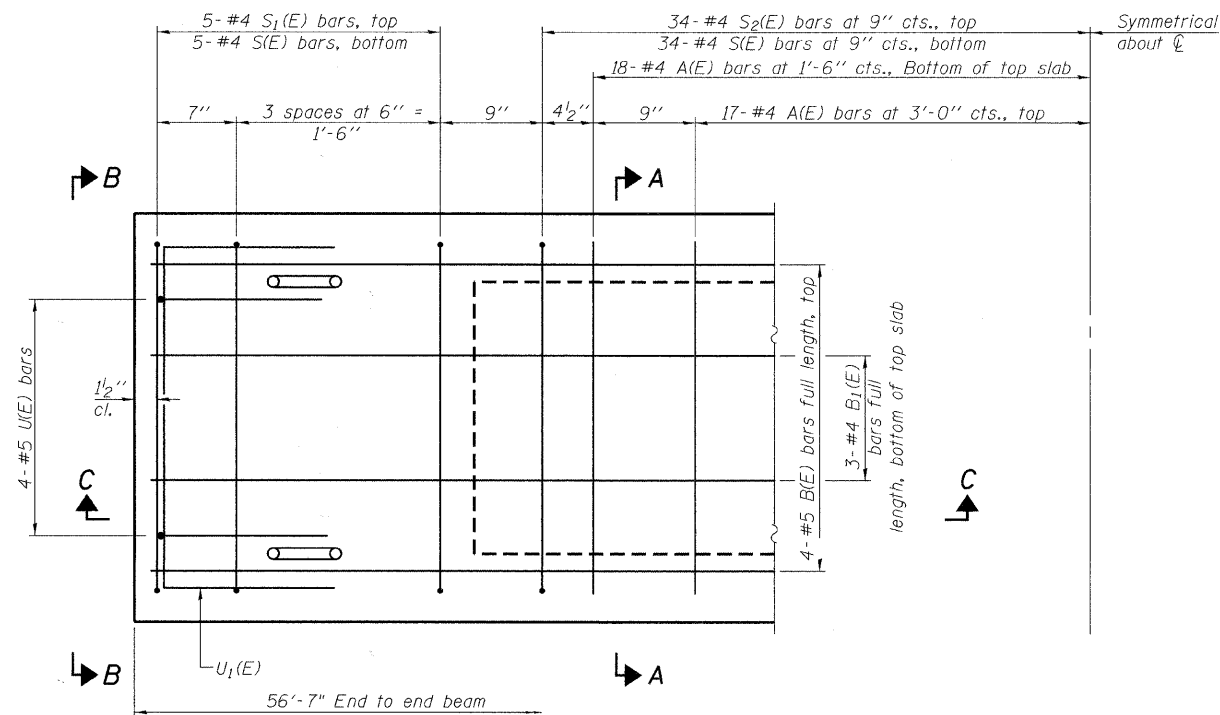
SECTION C-C



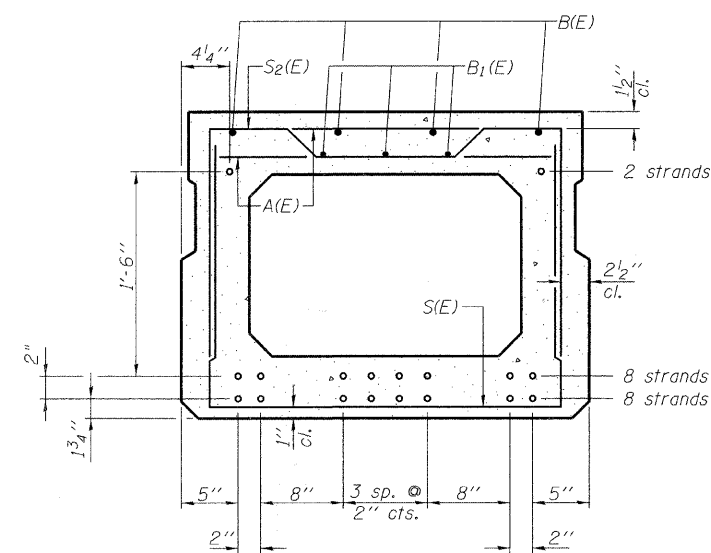
SECTION A-A
(Showing dimensions)



VIEW B-B



PLAN VIEW



SECTION A-A
(Showing reinforcement and permissible strand locations)
Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	70	#4	2'-7"	—
B(E)	4	#5	56'-4"	—
B1(E)	3	#4	56'-4"	—
S(E)	78	#4	6'-5"	U
S1(E)	10	#4	5'-11"	U
S2(E)	68	#4	6'-2"	U
U(E)	8	#5	4'-6"	C
U1(E)	4	#4	5'-0"	C

Note: See sheet S-11 of S-18 for additional details and Bill of Material.

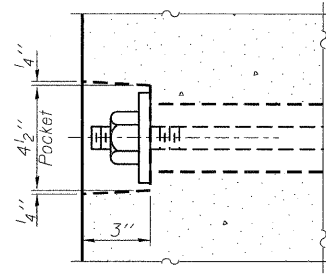
MINIMUM BAR LAP

#4 bar = 2'-0"
#5 bar = 2'-6"

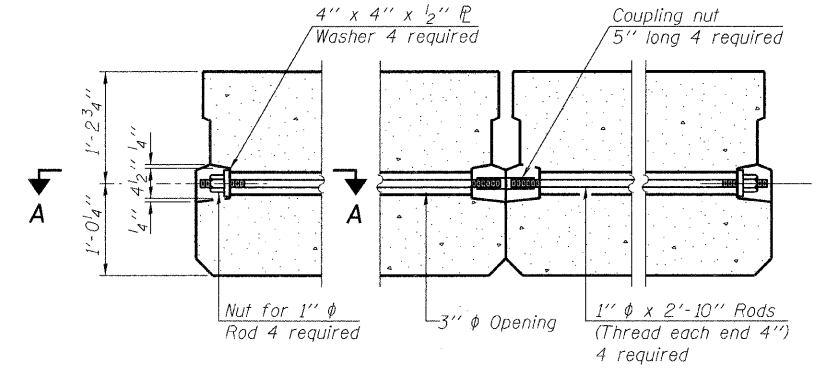
Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4' in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

FILE NAME = 3381.02 10 Deck Beam 27x36 Details 1.dgn

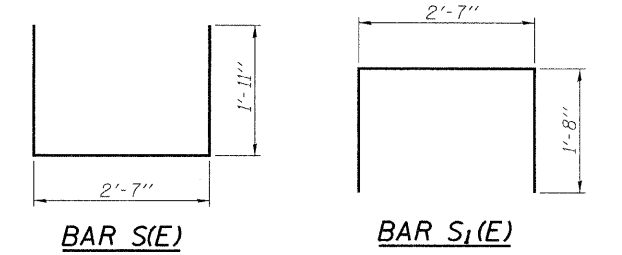
<p>Clorba Group, Inc. CONSULTING ENGINEERS 5901 West Chicago Avenue Chicago, Illinois 60649 Tel: 773.775.8000 Fax: 773.775.8014 Email: dthagg@clorba.com</p>	USER NAME = espino PLOT SCALE = PLOT DATE = 2/4/2011	DESIGNED - AMK CHECKED - BWS DRAWN - RD CHECKED - BWS	REVISED - REVISED - REVISED - REVISED -	MCHENRY COUNTY DIVISION OF TRANSPORTATION	27"x36" PPC DECK BEAMS DETAILS 1 STRUCTURE NO. 056-3180 SHEET NO. S-10 OF S-18 SHEETS	F.A. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.	07-00340-00-BR MCHENRY 46 27
						CONTRACT NO. 63552 ILLINOIS FED. AID PROJECT	



SECTION A-A

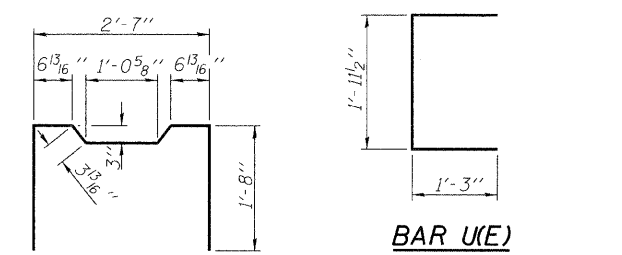


TYPICAL TRANSVERSE TIE ASSEMBLY



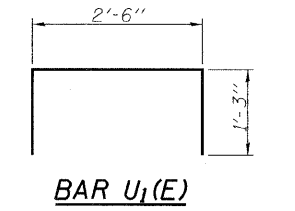
BAR S(E)

BAR S₁(E)

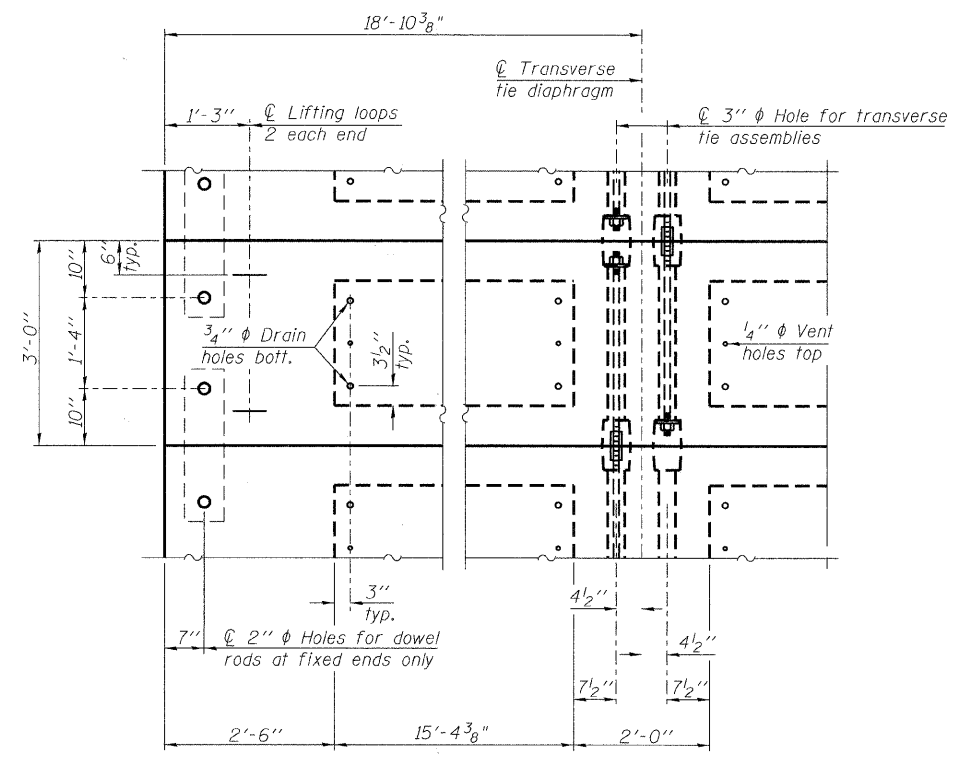


BAR S₂(E)

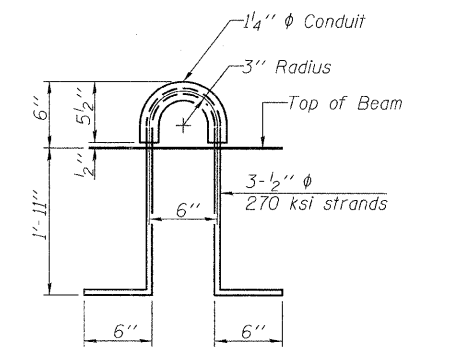
BAR U(E)



BAR U₁(E)



PLAN VIEW



LIFTING LOOP DETAIL

NOTES

- 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.
- The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
- Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions).
- Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
- A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling.
- Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
- Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
- Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

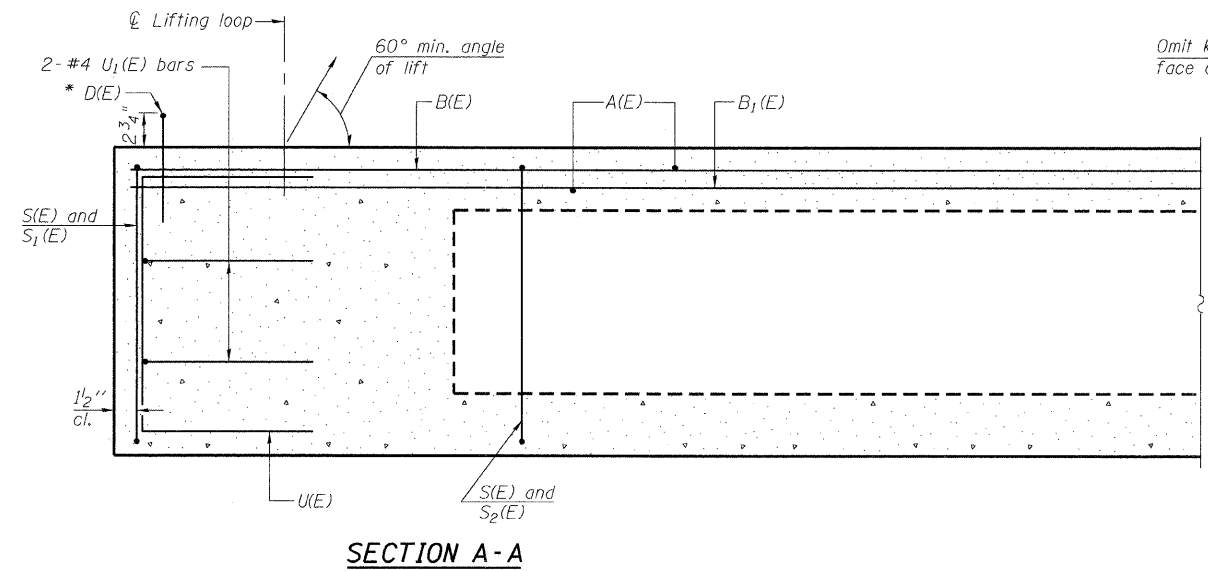
Note: Connect beams in pairs with the transverse tie configuration shown.

BILL OF MATERIAL

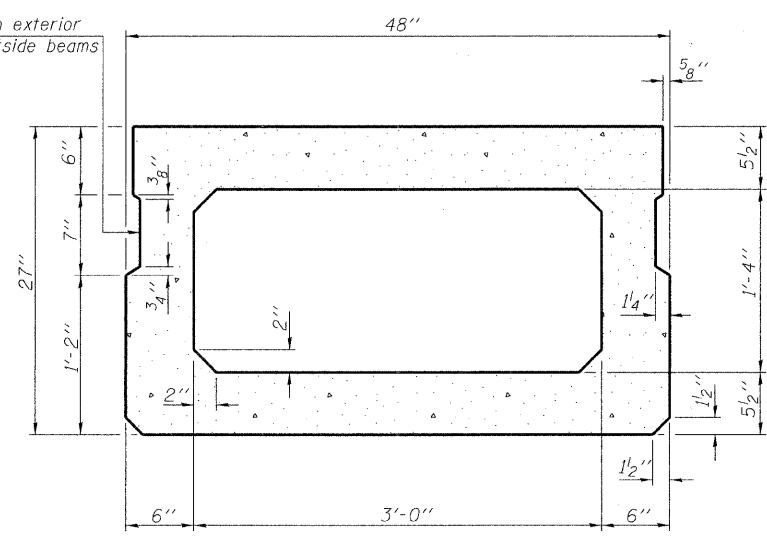
Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	170
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FILE NAME = 3381.02 11 Deck Beam 27x36 Details 2.dgn

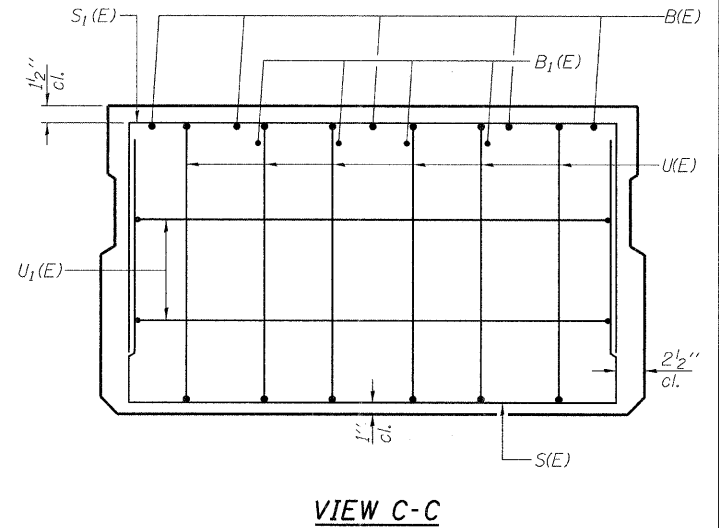
<p>Clorba Group, Inc. CONSULTING ENGINEERS 5017 North Cumberland Avenue Suite #23, Chicago, Illinois 60630 Tel: 773.775.4014 Fax: 773.775.4014 Email: clorba@clorba.com</p>	USER NAME = espino	DESIGNED - AMK	REVISED -	MCHENRY COUNTY DIVISION OF TRANSPORTATION	27"x36" PPC DECK BEAM DETAILS 2 STRUCTURE NO. 056-3180 SHEET NO. S-11 OF S-18 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED - BWS	REVISED -			07-00340-00-BR	MCHENRY	46	28	
	PLOT DATE = 2/4/2011	DRAWN - RD	REVISED -			CONTRACT NO. 63552				
	CHECKED - BWS	REVISED -		ILLINOIS FED. AID PROJECT						



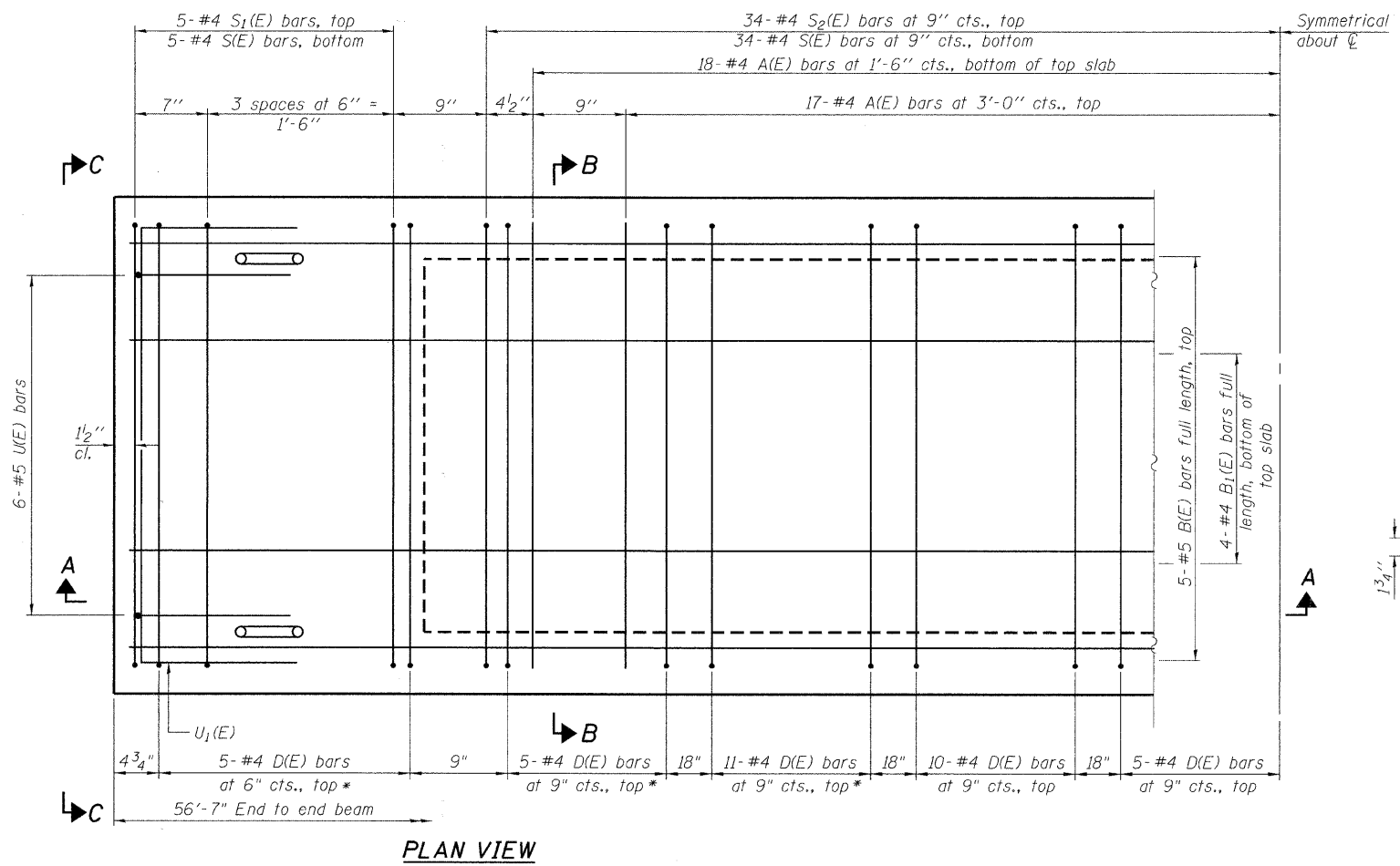
SECTION A-A



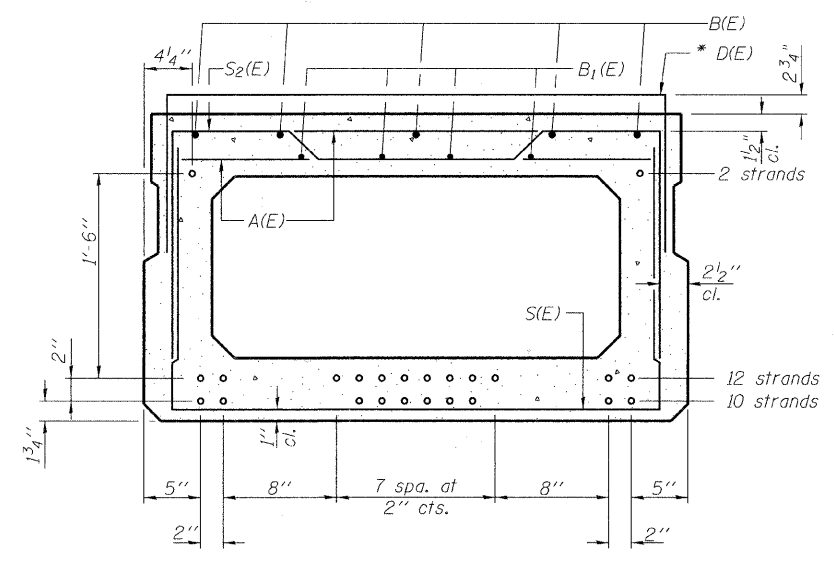
SECTION B-B
(Showing dimensions)



VIEW C-C



PLAN VIEW



SECTION B-B

(Showing reinforcement and permissible strand locations)
Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

BAR LIST
ONE BEAM ONLY

(For information only)

Bar	No.	Size	Length	Shape
A(E)	70	#4	3'-7"	—
B(E)	5	#5	56'-4"	—
B1(E)	4	#4	56'-4"	—
* D(E)	72	#4	5'-7"	┌
S(E)	78	#4	7'-5"	└
S1(E)	10	#4	6'-11"	┌
S2(E)	68	#4	7'-2"	└
U(E)	12	#5	4'-6"	└
U1(E)	4	#4	6'-0"	┌

Note: See sheet S-13 of S-18 for additional details and Bill of Material.

* External Beams only (2 thus)

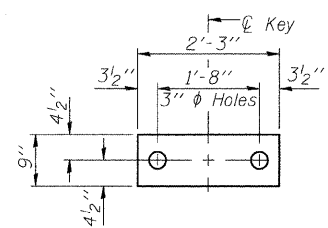
MINIMUM BAR LAP

#4 bar = 2'-0"
#5 bar = 2'-6"

Note: Spacing of D(E), S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

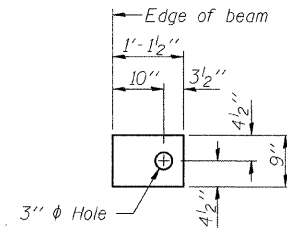
FILE NAME = 3381.02 12 Deck Beam 27x48 Details 1.dgn

<p>Clorba Group, Inc. CONSULTING ENGINEERS 1501 North Chestnut Avenue Chicago, Illinois 60642 Tel: 773.775.3000 Fax: 773.775.3014 Email: clorba@clorba.com</p>	USER NAME = espino	DESIGNED - AMK	REVISD -	MCHENRY COUNTY DIVISION OF TRANSPORTATION	27"x48" PPC DECK BEAMS DETAILS 1 STRUCTURE NO. 056-3180 SHEET NO. S-12 OF S-18 SHEETS	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED - BWS	REVISD -			07-00340-00-BR	MCHENRY	46	29	
	PLOT DATE = 2/4/2011	DRAWN - RD	REVISD -							
		CHECKED - BWS	REVISD -							
						ILLINOIS FED. AID PROJECT				



FABRIC BEARING PAD

(Interior)
(20 Required)

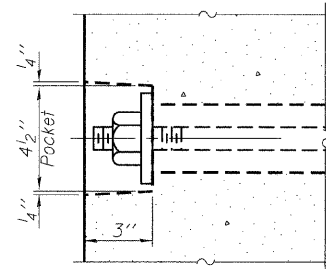


FABRIC BEARING PAD

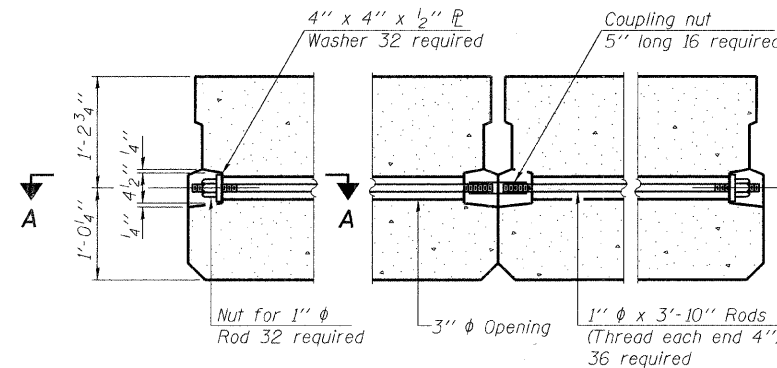
FIXED

(Exterior)
(4 Required)

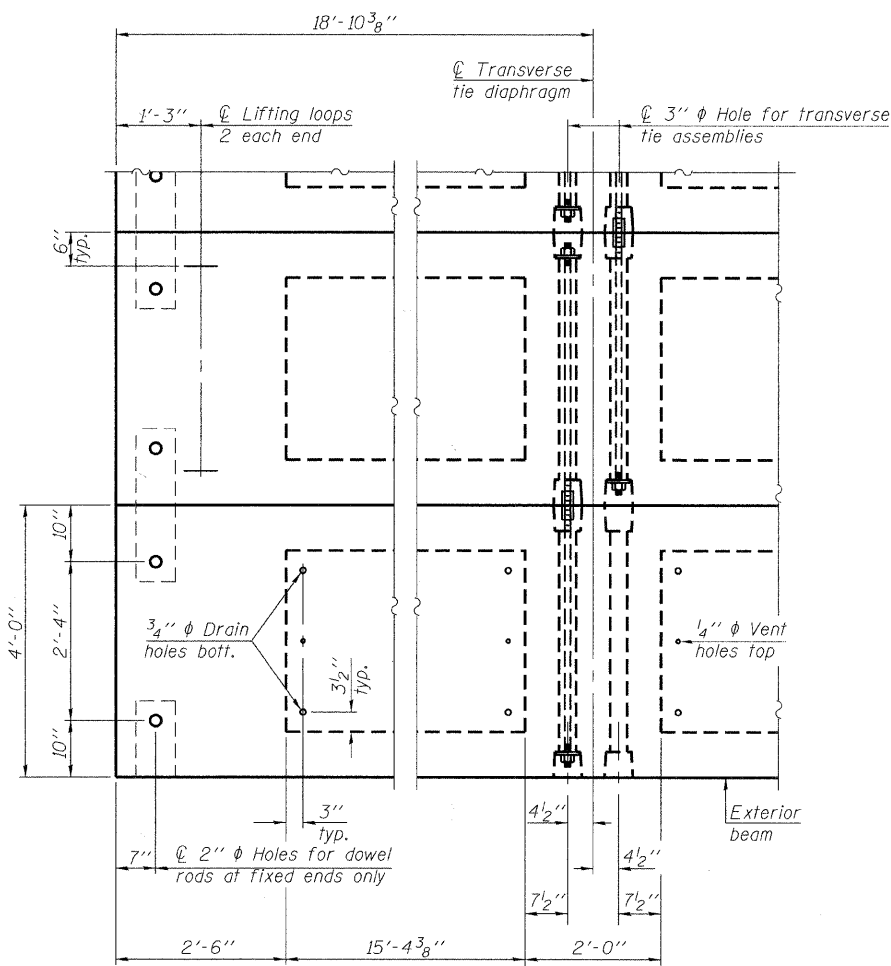
Notes:
All bearing pads shall be 1" thick.



SECTION A-A

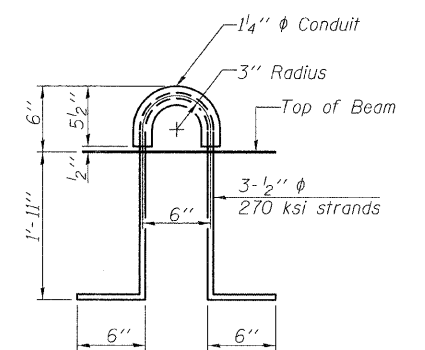
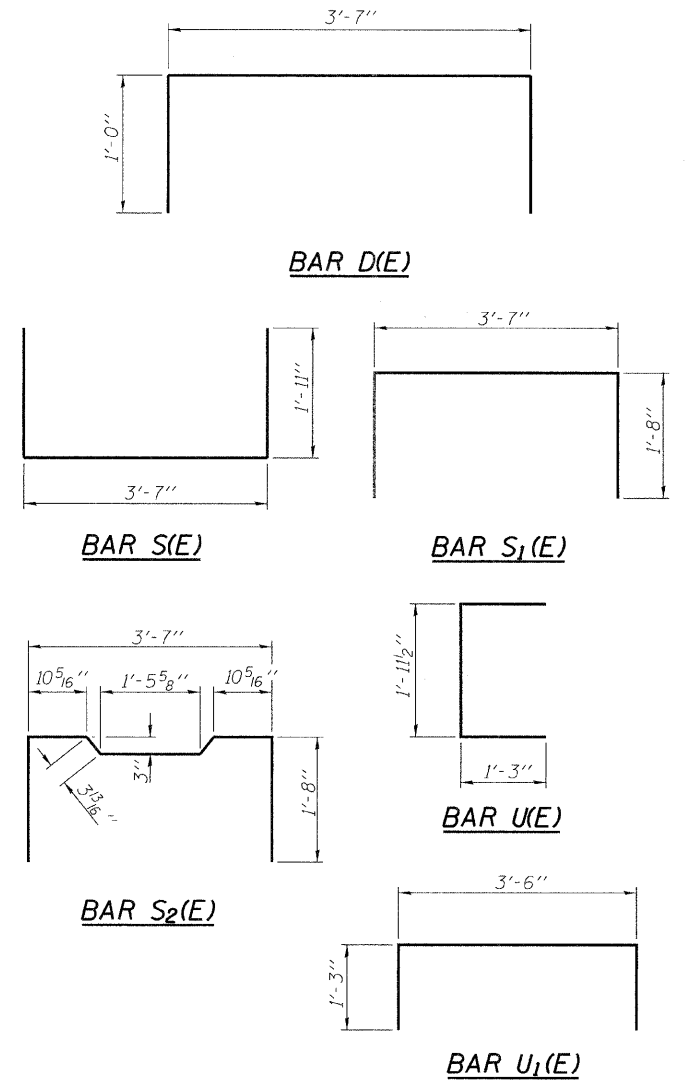


TYPICAL TRANSVERSE TIE ASSEMBLY



PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.



LIFTING LOOP DETAIL

NOTES

1. 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.
2. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
3. Reinforcement bars shall conform to ASTM A 706, Grade 60. (See Special Provisions).
4. Two 3/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
5. A minimum 2 1/2" lifting pin shall be used to engage the lifting loops during handling.
6. Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
7. Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
8. Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	2264.0
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FILE NAME = 3381.02 13 Deck Beam 27x48 Details 2.dgn



USER NAME = espino	DESIGNED - AMK	REVISED -
PLDT SCALE =	CHECKED - BWS	REVISED -
PLDT DATE = 2/4/2011	DRAWN - RD	REVISED -
	CHECKED - BWS	REVISED -

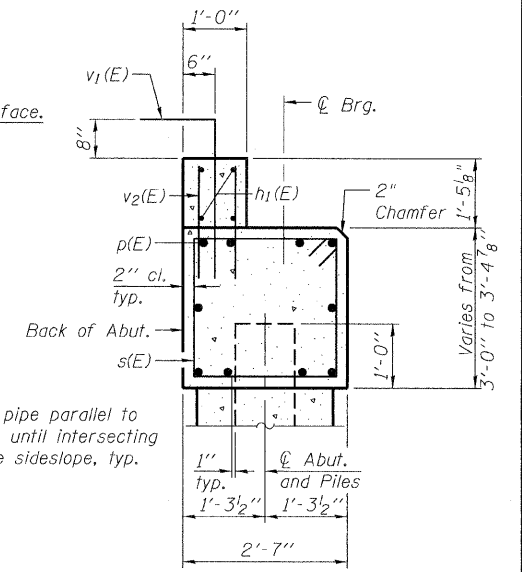
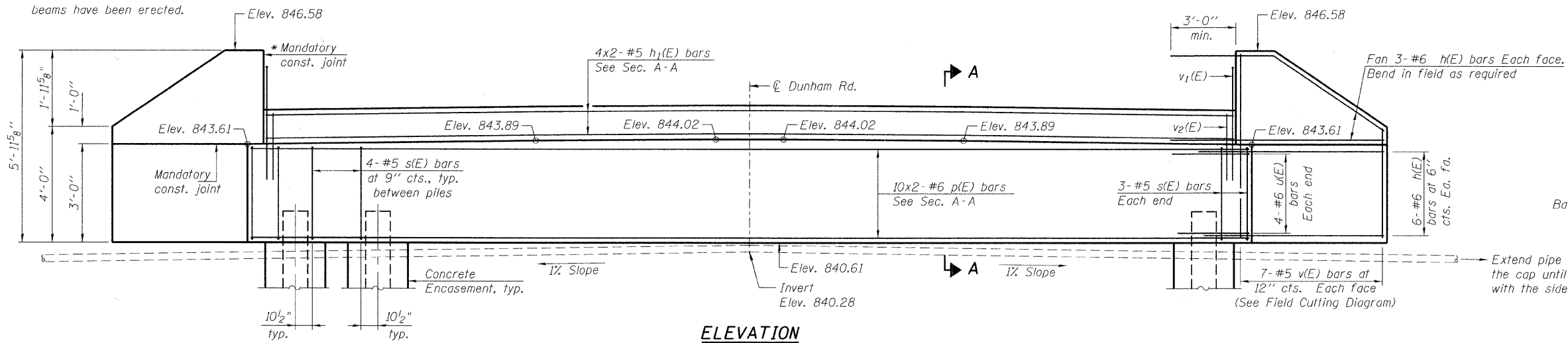
MCHENRY COUNTY DIVISION OF TRANSPORTATION

**27"x48" PPC DECK BEAM DETAILS 2
STRUCTURE NO. 056-3180**

SHEET NO. S-13 OF S-18 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00340-00-BR	MCHENRY	46	30
			CONTRACT NO. 63552	
ILLINOIS FED. AID PROJECT				

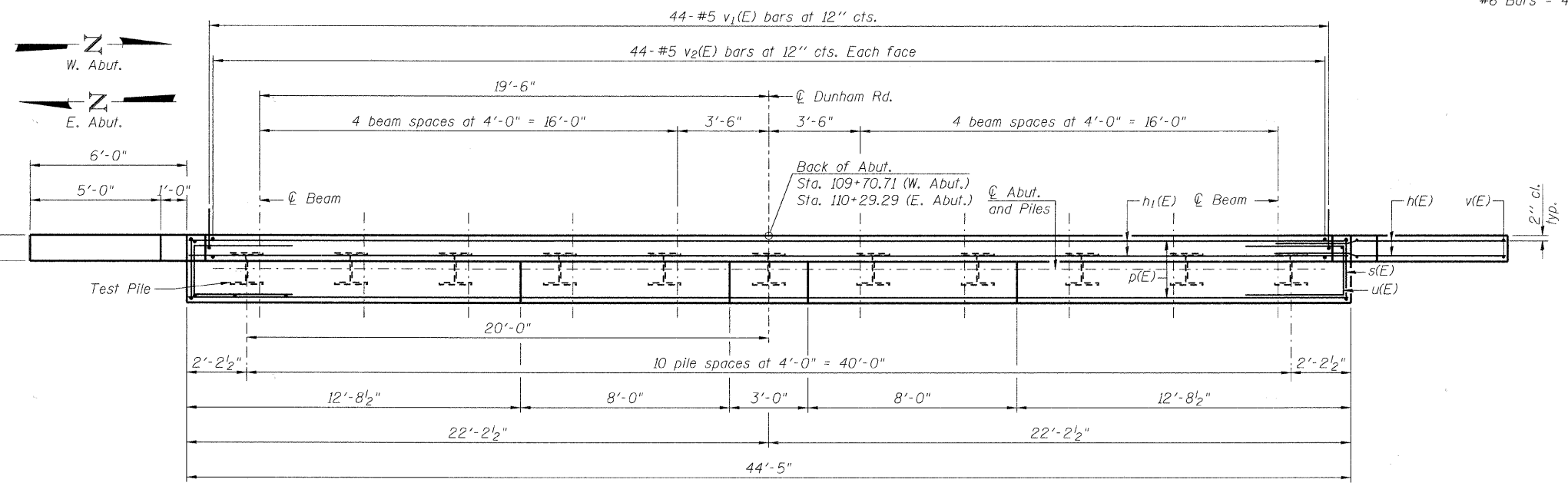
* Cast top portion of wingwall flush with exterior beam face after beams have been erected.



ELEVATION

SECTION A-A

MIN. LAP
 #5 Bars = 3'-8"
 #6 Bars = 4'-5"



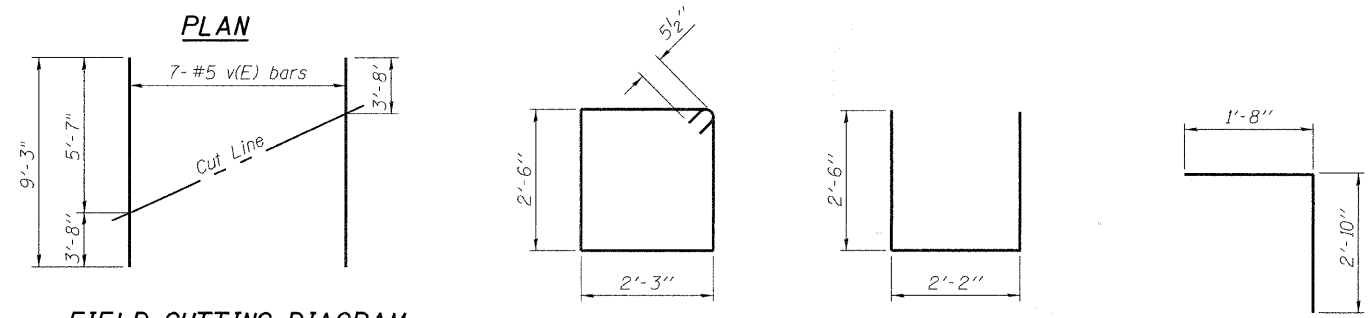
PLAN

WEST ABUTMENT PILE DATA

Type: Steel - HP 12x53
 Nominal Required Bearing: 140k
 Factored Resistance Available: 280k
 Est. Length: 60'
 No. Production Piles: 10
 No. Test Piles: 1

EAST ABUTMENT PILE DATA

Type: Steel - HP 12x53
 Nominal Required Bearing: 140k
 Factored Resistance Available: 280k
 Est. Length: 48'
 No. Production Piles: 10
 No. Test Piles: 1



FIELD CUTTING DIAGRAM

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

BILL OF MATERIAL FOR EAST AND WEST ABUTMENTS

Bar	No.	Size	Length	Shape
h(E)	72	#6	9'-8"	—
h1(E)	16	#5	23'-5"	—
p(E)	40	#6	24'-3"	—
s(E)	92	#5	10'-5"	□
u(E)	16	#6	7'-2"	—
v(E)	28	#5	9'-3"	—
v1(E)	88	#5	4'-6"	┌
v2(E)	176	#5	3'-4"	—
Structure Excavation			Cu. Yd.	163
Concrete Structures			Cu. Yd.	36.4
Reinforcement Bars, Epoxy Coated			Pound	5,360
Furnishing Steel Piles, HP12x53			Foot	1,080
Driving Piles			Foot	1,080
Test Pile, Steel HP12x53			Each	2
Concrete Encasement			Cu. Yd.	7.7

Notes:
 1. For details of piles and Concrete Encasement, see sheet S-15 of S-18.
 2. Cast backwall after beams and concrete wearing surface, if applicable, have been erected.

FILE NAME = 3381.02 14 Abutments.dgn

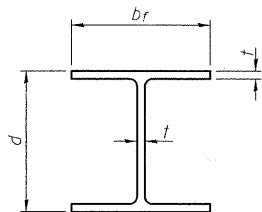


USER NAME = espina	DESIGNED - AMK	REVISD -
PLOT SCALE =	CHECKED - BWS	REVISD -
PLOT DATE = 2/4/2011	DRAWN - RD	REVISD -
	CHECKED - BWS	REVISD -

MCHENRY COUNTY DIVISION OF TRANSPORTATION

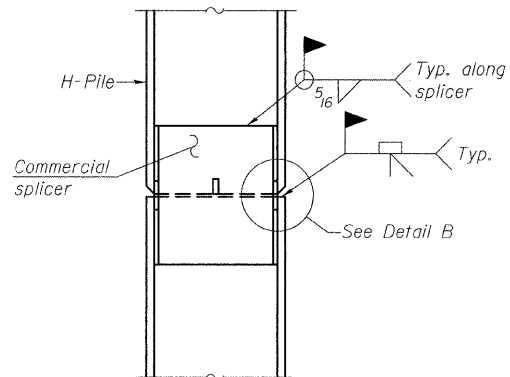
ABUTMENT DETAILS
STRUCTURE NO. 056-3180
 SHEET NO. S-14 OF S-18 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00340-00-BR	MCHENRY	46	31
			CONTRACT NO. 63552	
ILLINOIS FED. AID PROJECT				

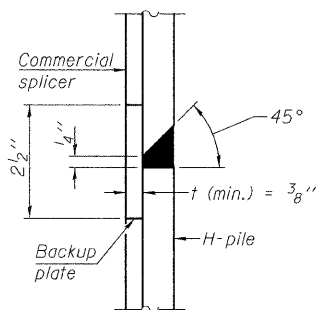


STEEL PILE TABLE

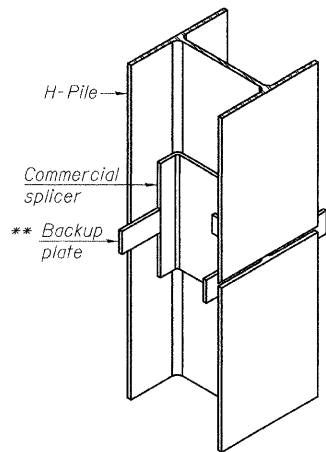
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 5/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION

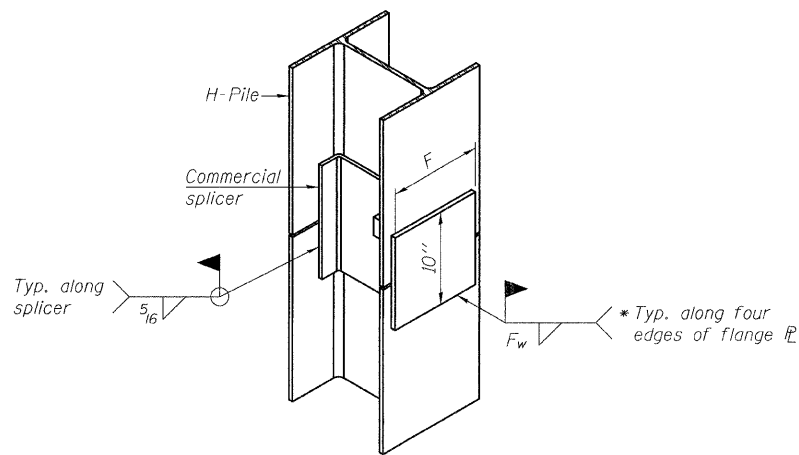


DETAIL "B"



ISOMETRIC VIEW

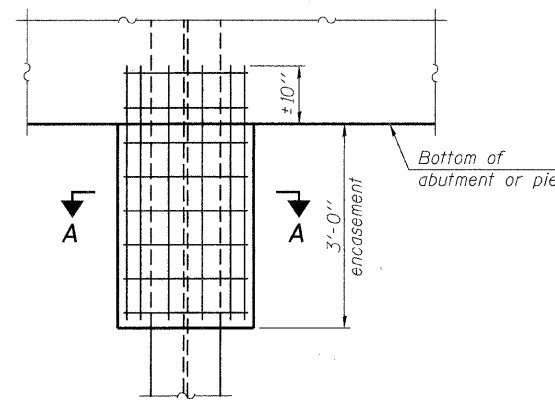
WELDED COMMERCIAL SPLICE



ISOMETRIC VIEW

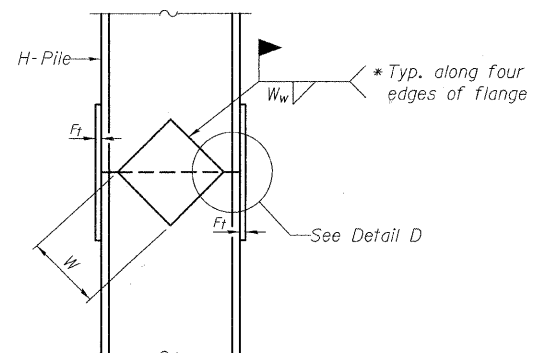
WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).

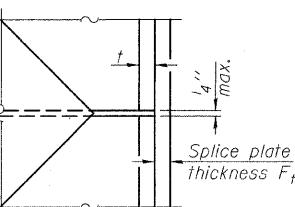


ELEVATION

PILE ENCASEMENT

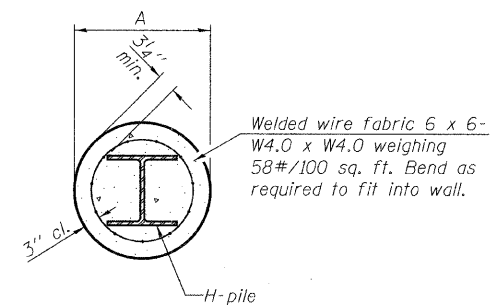


ELEVATION



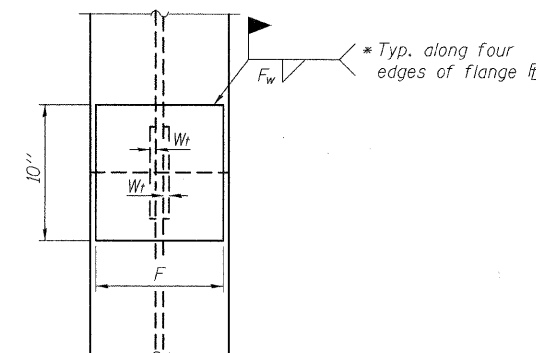
DETAIL D

WELDED PLATE FIELD SPLICE



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

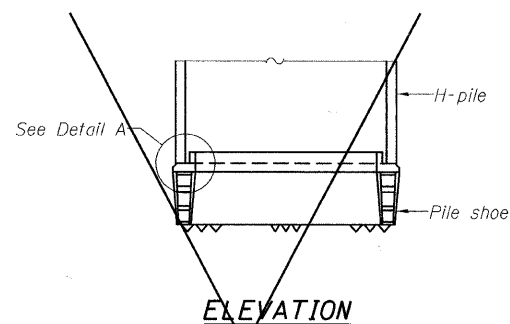
SECTION A-A



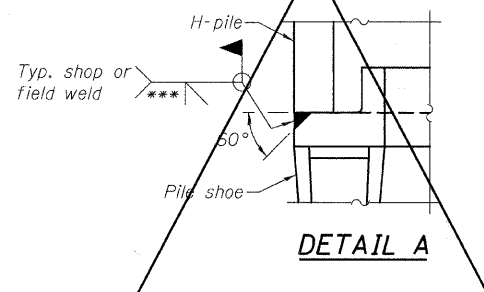
END VIEW

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	11/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

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



ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT

m:\p\01\3381\02\design\Structural\CAD\3381_02_15_Piles.dgn

F-HP

7-1-10



USER NAME =	espino
DESIGNED -	AMK
CHECKED -	BWS
DRAWN -	RD
PLLOT SCALE =	
PLLOT DATE =	2/4/2011

DESIGNED -	AMK	REVISED -	
CHECKED -	BWS	REVISED -	
DRAWN -	RD	REVISED -	
PLLOT SCALE =		REVISED -	
PLLOT DATE =	2/4/2011	REVISED -	

MCHENRY COUNTY DIVISION OF TRANSPORTATION

**HP PILE DETAILS
STRUCTURE NO. 056-3180**
SHEET NO. S-15 OF S-18 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00340-00-BR	MCHENRY	46	32
			CONTRACT NO. 63552	
ILLINOIS FED. AID PROJECT				

SOIL AND MATERIAL CONSULTANTS, INC. File No. 19486 **BORING LOG 1**
 Client: Clorba Group, Inc. Sheet 1 of 4
 Project: Dunham Road over Rush Creek Date 11/19/08
 Structural #056-3110
 Location: McHenry Co., IL Drilled By: AC
 Equipment: CME 45B H.A. Other Logged By: DA

Elev. ft.	Description	Depth, ft.	O	S	T	R	B	N	Pen.	W	Uw	Qu
844.8'	Bituminous concrete - 4.0"											
843.8'	Base-brown sand & gravel, damp - 8.0"											
	Black silt, some clay, trace sand & organic matter, very damp, very loose (topsoil)	1	SS	16"		2	4		26.4			
839.8'		6	2	SS	14"		4		68.1			
837.8'	Brown-gray silt, some clay, trace sand & gravel, very damp, loose	3										
836.8'	Brown fine-medium sand, some coarse sand & gravel, damp, medium dense	4	SS	16"		9	13		18.9	6.4		
834.8'	Gray fine-medium sand, some coarse sand & gravel, very damp-saturated, medium dense	10	5	SS	18"		20		11.8			
831.8'	Gray fine sand, trace medium-coarse sand & gravel, very damp-saturated, medium dense	6	SS	18"		11	19		15.5			
	Gray fine-medium sand, some coarse sand & gravel, very damp-saturated, medium dense	15	7	SS	18"		27		5.7			
		8	SS	18"		12	23		9.1			
		20	9	SS	18"		23		9.4			

Water Level - depth, ft. elev., ft. S - sample T - type: (J), (M), SS (split spoon), ST (shabby tube) R - recovery length, in.
 - while drilling: 8.0 N - SPT, blow/foot to drive 2" O.D. split spoon sampler with 140 lb. hammer falling 30" W - water content, %
 - after drilling: 8.0 Pen. - pocket penetrometer reading, tons/sq. ft. Uw - dry unit weight of soil, lbs./cu. ft.
 hrs. after drilling: Qu - unconfined compressive strength, tons/sq. ft.

SOIL AND MATERIAL CONSULTANTS, INC. File No. 19486 **BORING LOG 1**
 Client: Clorba Group, Inc. Sheet 2 of 4
 Project: Dunham Road over Rush Creek Date 11/19/08
 Structural #056-3110
 Location: McHenry Co., IL Drilled By: AC
 Equipment: CME 45B H.A. Other Logged By: DA

Elev. ft.	Description	Depth, ft.	O	S	T	R	B	N	Pen.	W	Uw	Qu
	Gray fine-medium sand, some coarse sand & gravel, very damp-saturated, medium dense	10							7.9			
822.8'	Gray clay, some silt, trace sand & gravel, damp-very damp, very tough	11	SS	18"		9	22	2.25	12.2	134.3	3.0	
		27	12	SS	18"		22	2.5	12.1	128.5	2.5	
	Gray clay, some silt, trace sand & gravel, damp-very damp, tough to very tough	13	SS	14"		10	17	2.0	12.4	133.7	1.6	
		30	14	SS	18"		6	11	3.5	12.5	128.0	1.9
		35	15	SS	18"		7	13	2.0	12.2	132.7	2.3
806.8'	Gray silt & fine sand, damp-very damp, medium dense	40	16	SS	18"		13	23	15.5			

Water Level - depth, ft. elev., ft. S - sample T - type: (J), (M), SS (split spoon), ST (shabby tube) R - recovery length, in.
 - while drilling: 8.0 N - SPT, blow/foot to drive 2" O.D. split spoon sampler with 140 lb. hammer falling 30" W - water content, %
 - after drilling: 8.0 Pen. - pocket penetrometer reading, tons/sq. ft. Uw - dry unit weight of soil, lbs./cu. ft.
 hrs. after drilling: Qu - unconfined compressive strength, tons/sq. ft.

SOIL AND MATERIAL CONSULTANTS, INC. File No. 19486 **BORING LOG 1**
 Client: Clorba Group, Inc. Sheet 3 of 4
 Project: Dunham Road over Rush Creek Date 11/19/08
 Structural #056-3110
 Location: McHenry Co., IL Drilled By: AC
 Equipment: CME 45B H.A. Other Logged By: DA

Elev. ft.	Description	Depth, ft.	O	S	T	R	B	N	Pen.	W	Uw	Qu
	Gray-green fine sand, very damp-saturated, medium dense	42	17	SS	18"		13	21	19.3			
798.8'	Gray fine-medium sand, some coarse sand & gravel, very damp-saturated, medium dense	50	18	SS	18"		14	22	6.9			
	Gray fine sand, trace silt & gravel, damp, dense	55	19	SS	18"		23	42	15.7			
788.8'	Gray fine sand, trace medium-coarse sand & gravel, very damp-saturated, medium dense	60	20	SS	18"		14	23	12.8			

Water Level - depth, ft. elev., ft. S - sample T - type: (J), (M), SS (split spoon), ST (shabby tube) R - recovery length, in.
 - while drilling: 8.0 N - SPT, blow/foot to drive 2" O.D. split spoon sampler with 140 lb. hammer falling 30" W - water content, %
 - after drilling: 8.0 Pen. - pocket penetrometer reading, tons/sq. ft. Uw - dry unit weight of soil, lbs./cu. ft.
 hrs. after drilling: Qu - unconfined compressive strength, tons/sq. ft.

SOIL AND MATERIAL CONSULTANTS, INC. File No. 19486 **BORING LOG 1**
 Client: Clorba Group, Inc. Sheet 4 of 4
 Project: Dunham Road over Rush Creek Date 11/19/08
 Structural #056-3110
 Location: McHenry Co., IL Drilled By: AC
 Equipment: CME 45B H.A. Other Logged By: DA

Elev. ft.	Description	Depth, ft.	O	S	T	R	B	N	Pen.	W	Uw	Qu
	Gray fine sand, trace medium-coarse sand & gravel, very damp-saturated, medium dense	66	21	SS	11"		20	33	17.3			
772.8'	Gray fine-medium sand, some coarse sand & gravel, very damp-saturated, dense	70	22	SS	18"		22	38	12.4			
		76	23	SS	18"		24	41	9.5			
764.8'		80	24	SS	14"		17	33	20.9			

Water Level - depth, ft. elev., ft. S - sample T - type: (J), (M), SS (split spoon), ST (shabby tube) R - recovery length, in.
 - while drilling: 8.0 N - SPT, blow/foot to drive 2" O.D. split spoon sampler with 140 lb. hammer falling 30" W - water content, %
 - after drilling: 8.0 Pen. - pocket penetrometer reading, tons/sq. ft. Uw - dry unit weight of soil, lbs./cu. ft.
 hrs. after drilling: Qu - unconfined compressive strength, tons/sq. ft.

FILE NAME = 3381.02 16 Soil Borings 1.dgn



USER NAME = espuna	DESIGNED - AMK	REVISED -
PLOT SCALE =	CHECKED - BWS	REVISED -
PLOT DATE = 2/4/2011	DRAWN - RD	REVISED -
	CHECKED - BWS	REVISED -

MCHENRY COUNTY DIVISION OF TRANSPORTATION

SOIL BORINGS 1
STRUCTURE NO. 056-3180
 SHEET NO. S-16 OF S-18 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00340-00-BR	MCHENRY	46	33
CONTRACT NO. 63552				

ILLINOIS FED. AID PROJECT

SOIL AND MATERIAL CONSULTANTS, INC. File No. 19486 **BORING LOG 2**
 Client: Clorba Group, Inc. Sheet 1 of 5
 Project: Dunham Road over Rush Creek Date 11/19/08
 Structural #056-3110
 Location: McHenry Co., IL Drilled By: AC
 Equipment: CME 45B H.A. Other Logged By: DA

Elev. ft.	Description	Depth, ft.	S	T	R	B	N	Pen.	W	Uw	Qu
845.0'	Bituminous concrete - 4.0"										
	Brown-dark brown fine sand, some gravel, trace medium-coarse sand, damp, loose	1	SS	12"			8	6.6			
		2	SS	15"			7	9.4			
837.5'	Brown-dark brown fine sand, some gravel, trace medium-coarse sand, damp, very loose	3	SS	10"			4	8.7			
	Brown fine-medium sand, some coarse sand & gravel, very damp-saturated, medium dense	4	SS	13"			11	14.2			
834.0'	Gray medium-coarse sand, some fine sand & gravel, very damp-saturated, medium dense	5	SS	15"			27	8.0			
831.0'	Gray fine sand, very damp-saturated, medium dense	6	SS	16"			24	19.7			
829.5'	Gray fine-medium sand, some coarse sand & gravel, very damp-saturated, medium dense	7	SS	18"			19	12.8			
		8	SS	14"			22	11.8			

Water Level - depth, ft. elev., ft. S - sample T - type: J (jar), SS (split spoon), ST (Shelby tube) R - recovery length, in.
 - while drilling: 8.0 B - Standard Penetration Test (SPT), blow/ft interval. W - water content, %
 - after drilling: 8.0 N - SPT, blow/foot to drive 2" O.D. split spoon sampler with 140 lb. hammer falling 30".
 - hrs. after drilling: Pen. - pocket penetrometer reading, tons/sq. ft. Uw - dry unit weight of soil, lbs./cu. ft.
 Qu - unconfined compressive strength, tons/sq. ft.

F-111b

SOIL AND MATERIAL CONSULTANTS, INC. File No. 19486 **BORING LOG 2**
 Client: Clorba Group, Inc. Sheet 2 of 5
 Project: Dunham Road over Rush Creek Date 11/19/08
 Structural #056-3110
 Location: McHenry Co., IL Drilled By: AC
 Equipment: CME 45B H.A. Other Logged By: DA

Elev. ft.	Description	Depth, ft.	S	T	R	B	N	Pen.	W	Uw	Qu
824.0'	Gray fine-medium sand, some coarse sand & gravel, very damp-saturated, medium dense	9	SS	18"			19	4.0	12.0	134.6	5.4
	Gray clay, some silt, trace sand & gravel, damp, hard to very hard	10	SS	18"			20	4.5	10.9	141.2	6.2
		11	SS	18"			27	6.5+	10.7	131.5	8.1
	Gray clay, some silt, trace sand & gravel, damp, hard	12	SS	18"			19	3.75	11.2	132.4	5.6
810.0'	Gray fine sand, very damp, medium dense	13	SS	15"			21	4.5+	12.8	130.2	5.7
805.5'	(a) see page 5 of 5	14	SS	16"			29	16.7			

Water Level - depth, ft. elev., ft. S - sample T - type: J (jar), SS (split spoon), ST (Shelby tube) R - recovery length, in.
 - while drilling: B - Standard Penetration Test (SPT), blow/ft interval. W - water content, %
 - after drilling: N - SPT, blow/foot to drive 2" O.D. split spoon sampler with 140 lb. hammer falling 30".
 - hrs. after drilling: Pen. - pocket penetrometer reading, tons/sq. ft. Uw - dry unit weight of soil, lbs./cu. ft.
 Qu - unconfined compressive strength, tons/sq. ft.

F-111b

SOIL AND MATERIAL CONSULTANTS, INC. File No. 19486 **BORING LOG 2**
 Client: Clorba Group, Inc. Sheet 3 of 5
 Project: Dunham Road over Rush Creek Date 11/19/08
 Structural #056-3110
 Location: McHenry Co., IL Drilled By: AC
 Equipment: CME 45B H.A. Other Logged By: DA

Elev. ft.	Description	Depth, ft.	S	T	R	B	N	Pen.	W	Uw	Qu
803.0'	Gray silt, trace fine sand & clay, damp, medium dense to dense	15									
	Gray fine sand, very damp-saturated, dense	16	SS	15"			30	21.3			
797.0'	Gray-green fine sand, very damp-saturated, dense	17	SS	12"			34	16.7			
792.5'	Gray-green fine sand, very damp-saturated, medium dense	18	SS	18"			26	11.3			
788.0'	Gray fine sand, very damp-saturated, medium dense	19	SS	18"			19	16.0			

Water Level - depth, ft. elev., ft. S - sample T - type: J (jar), SS (split spoon), ST (Shelby tube) R - recovery length, in.
 - while drilling: B - Standard Penetration Test (SPT), blow/ft interval. W - water content, %
 - after drilling: N - SPT, blow/foot to drive 2" O.D. split spoon sampler with 140 lb. hammer falling 30".
 - hrs. after drilling: Pen. - pocket penetrometer reading, tons/sq. ft. Uw - dry unit weight of soil, lbs./cu. ft.
 Qu - unconfined compressive strength, tons/sq. ft.

F-111b

SOIL AND MATERIAL CONSULTANTS, INC. File No. 19486 **BORING LOG 2**
 Client: Clorba Group, Inc. Sheet 4 of 5
 Project: Dunham Road over Rush Creek Date 11/19/08
 Structural #056-3110
 Location: McHenry Co., IL Drilled By: AC
 Equipment: CME 45B H.A. Other Logged By: DA

Elev. ft.	Description	Depth, ft.	S	T	R	B	N	Pen.	W	Uw	Qu
783.0'	Gray fine sand, trace medium-coarse sand & gravel, very damp-saturated, medium dense to dense	20	SS	18"			29	12.4			
766.0'	Gray silt, some clay, trace sand & gravel, damp, very dense	23	SS	8"			50+	8.7			
765.0'		24	SS	8"			50+	6.8			

Water Level - depth, ft. elev., ft. S - sample T - type: J (jar), SS (split spoon), ST (Shelby tube) R - recovery length, in.
 - while drilling: B - Standard Penetration Test (SPT), blow/ft interval. W - water content, %
 - after drilling: N - SPT, blow/foot to drive 2" O.D. split spoon sampler with 140 lb. hammer falling 30".
 - hrs. after drilling: Pen. - pocket penetrometer reading, tons/sq. ft. Uw - dry unit weight of soil, lbs./cu. ft.
 Qu - unconfined compressive strength, tons/sq. ft.

F-111b

SOIL AND MATERIAL CONSULTANTS, INC. File No. 19486 **BORING LOG 2**
 Client: Clorba Group, Inc. Sheet 5 of 5
 Project: Dunham Road over Rush Creek Date 11/19/08
 Structural #056-3110
 Location: McHenry Co., IL Drilled By: AC
 Equipment: CME 45B H.A. Other Logged By: DA

Elev. ft.	Description	Depth, ft.	S	T	R	B	N	Pen.	W	Uw	Qu
	(a) Gray silt, trace fine sand & clay, damp, medium dense										

Water Level - depth, ft. elev., ft. S - sample T - type: J (jar), SS (split spoon), ST (Shelby tube) R - recovery length, in.
 - while drilling: B - Standard Penetration Test (SPT), blow/ft interval. W - water content, %
 - after drilling: N - SPT, blow/foot to drive 2" O.D. split spoon sampler with 140 lb. hammer falling 30".
 - hrs. after drilling: Pen. - pocket penetrometer reading, tons/sq. ft. Uw - dry unit weight of soil, lbs./cu. ft.
 Qu - unconfined compressive strength, tons/sq. ft.

F-111b

FILE NAME = 3381.02 17 Soil Borings 2.dgn

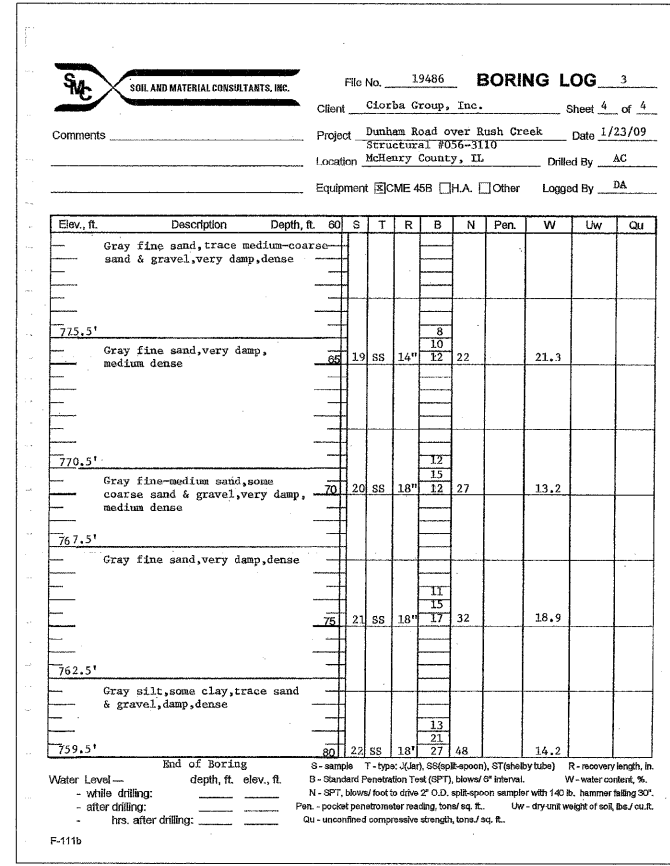
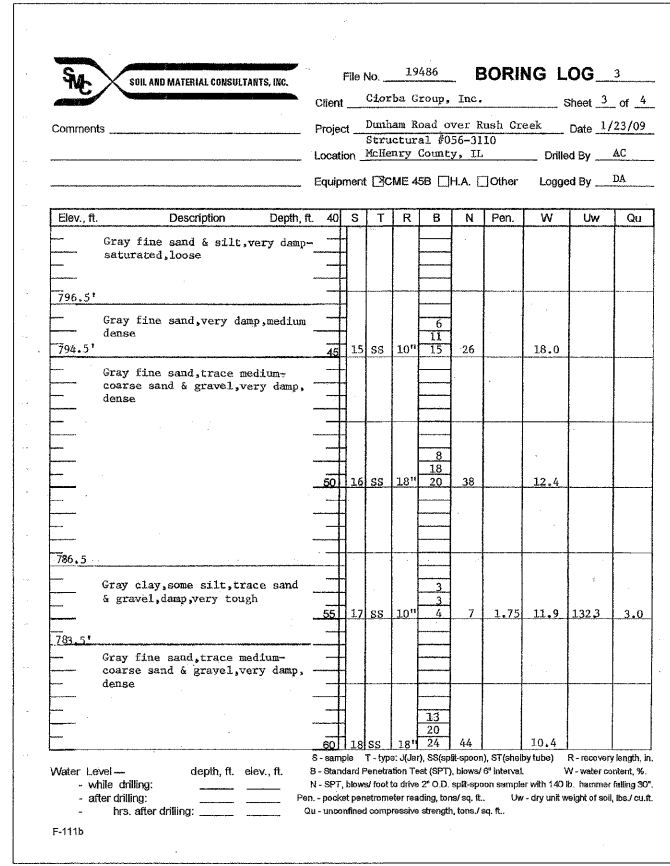
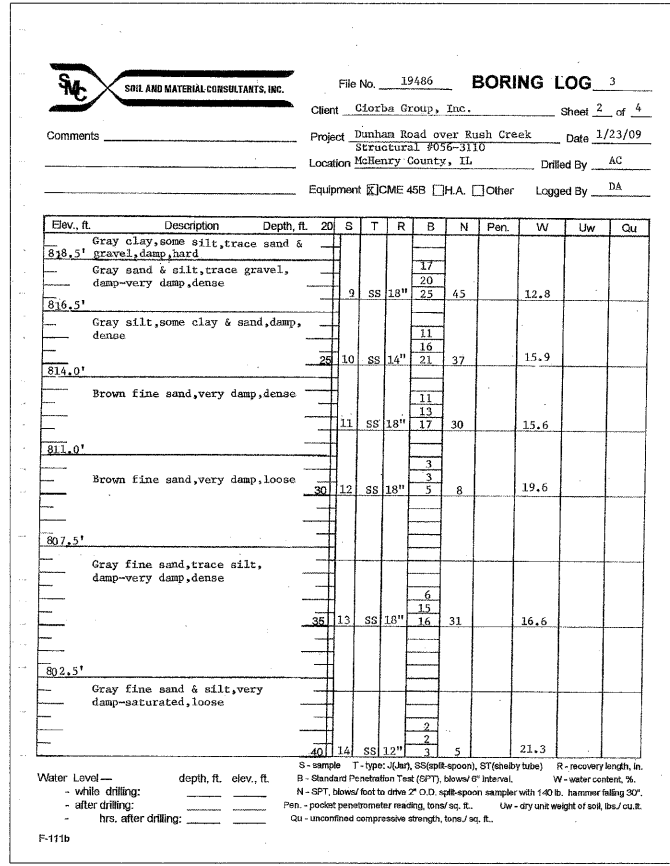
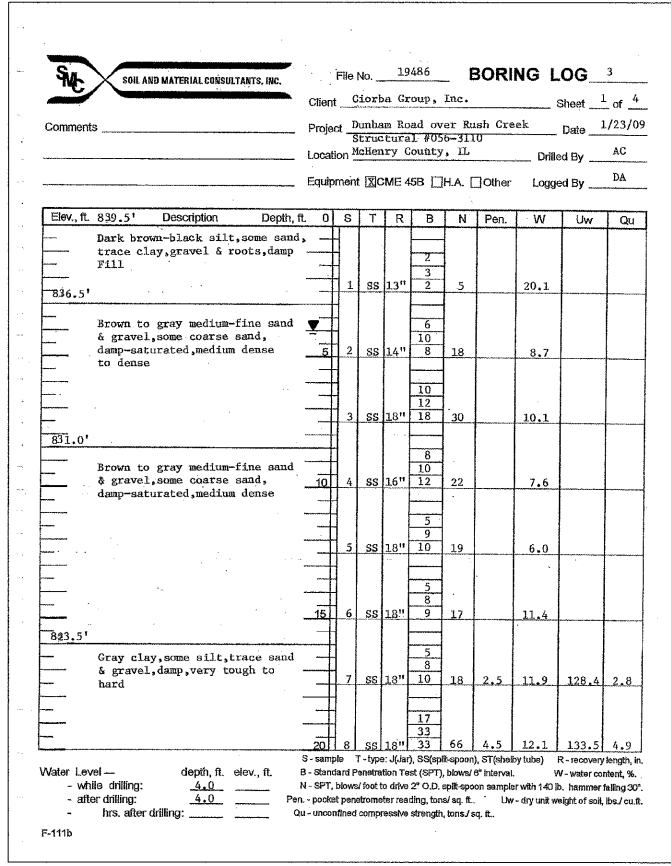


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MCHENRY COUNTY DIVISION OF TRANSPORTATION

SOIL BORINGS 2
STRUCTURE NO. 056-3180
 SHEET NO. S-17 OF S-18 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00340-00-BR	MCHENRY	46	34
CONTRACT NO. 63552			ILLINOIS FED. AID PROJECT	



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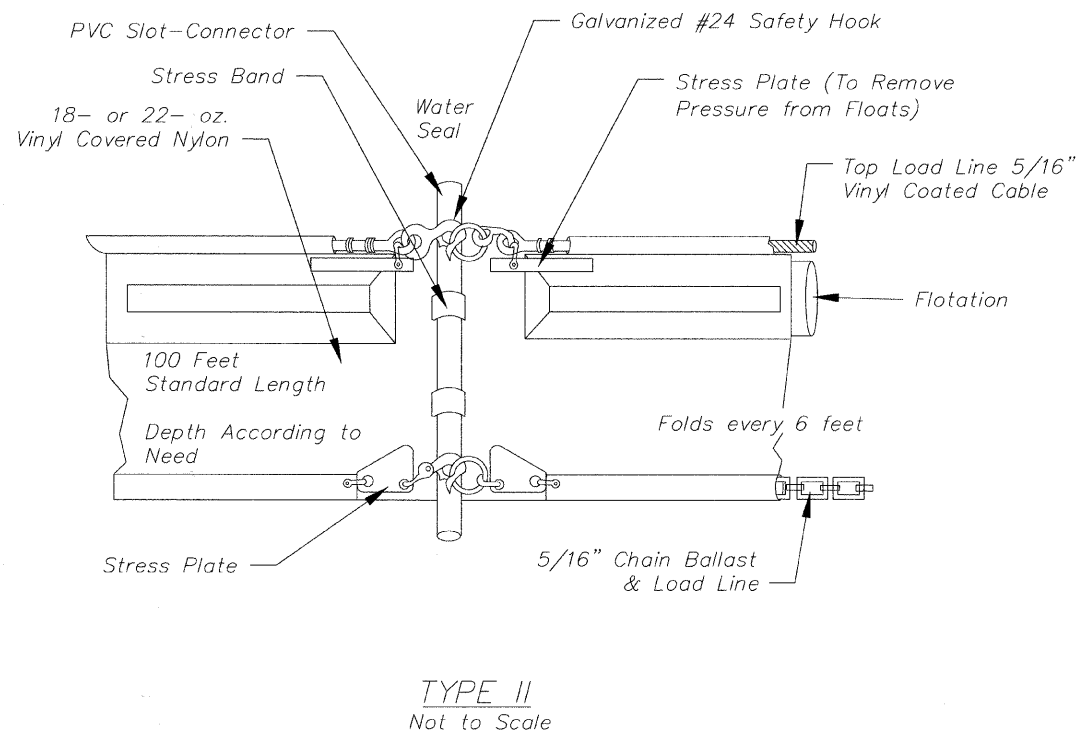
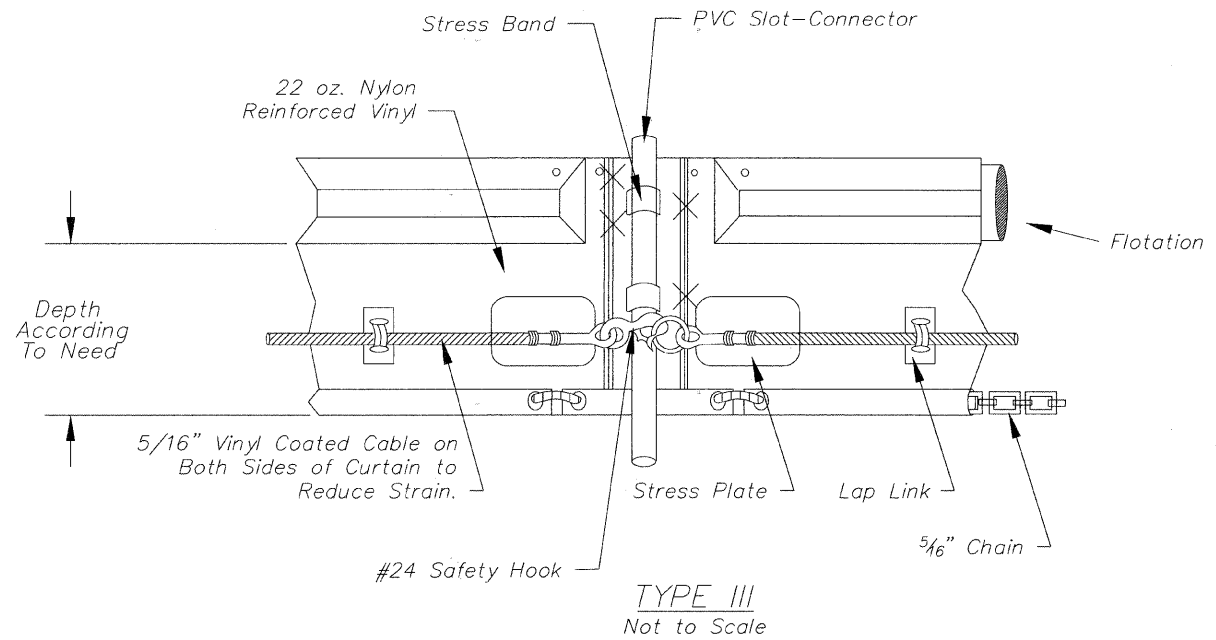
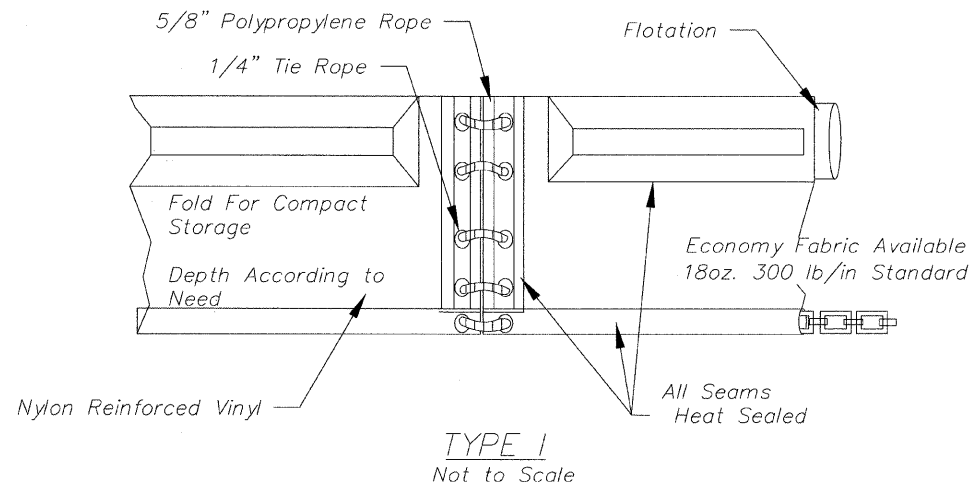
Clorba Group, Inc.
 CONSULTING ENGINEERS
 2901 North Lombard Avenue
 Suite 202, Chicago, Illinois 60664
 Tel: 773.775.8200
 Fax: 773.775.8204
 Email: clg@clorba.com

USER NAME = espino	DESIGNED - AMK	REVISED -
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PLOT DATE = 2/4/2011	DRAWN - RD	REVISED -
	CHECKED - BWS	REVISED -

MCHENRY COUNTY DIVISION OF TRANSPORTATION

SOIL BORINGS 3
STRUCTURE NO. 056-3180
 SHEET NO. S-18 OF S-18 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00340-00-BR	MCHENRY	46	35
			CONTRACT NO. 63552	
ILLINOIS FED. AID PROJECT				



TURBIDITY CURTAIN GENERAL NOTES:

1. TYPE I IS DESIGNED FOR USE IN SMALL LAKES AND PONDS WITH LITTLE OR NO WIND CURRENT AND LIGHT TURBIDITY.
2. TYPE II IS DESIGNED FOR USE ON RIVERS AND STREAMS, LARGE OPEN LAKES, BAYS, AND BEACHES WITH MODERATE CURRENTS AND WIND EXPOSURE.
3. TYPE III IS SIMILAR TO TYPE II ONLY WITH ADDITIONAL STRESS PLATES OR SPECIAL FABRIC TO HELP RELIEVE STRESSES CAUSED BY STRONG CURRENTS.
4. WHEN THE CURTAIN IS NO LONGER REQUIRED AS DETERMINED BY THE INSPECTOR, THE CURTAIN AND RELATED COMPONENTS SHALL BE REMOVED SO AS TO MINIMIZE TURBIDITY. REMAINING SEDIMENT SHALL BE SUFFICIENTLY SETTLED BEFORE REMOVING THE CURTAIN. SEDIMENT MAY BE REMOVED AND THE ORIGINAL DEPTH OR PLAN ELEVATION RESTORED. ANY SPOILS MUST BE TAKEN TO UPLAND AREA AND STABILIZED.

Turbidity Curtain

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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

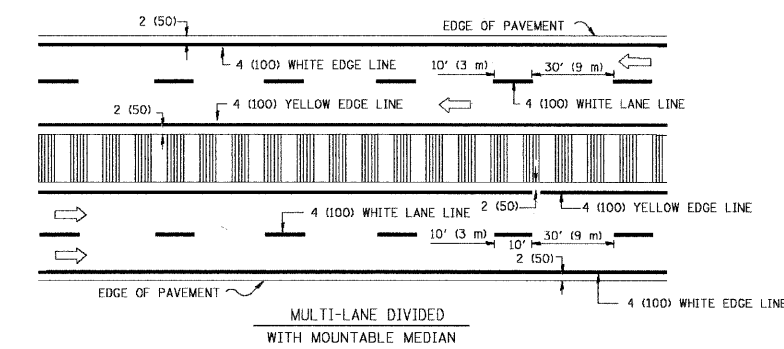
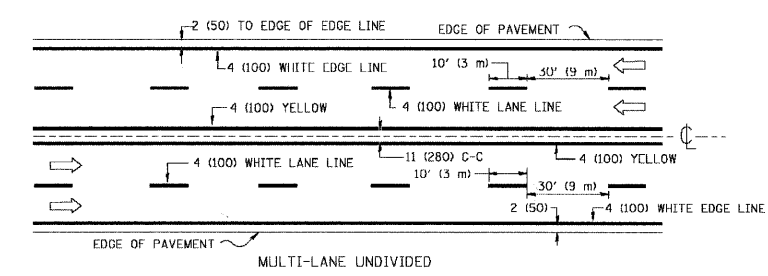
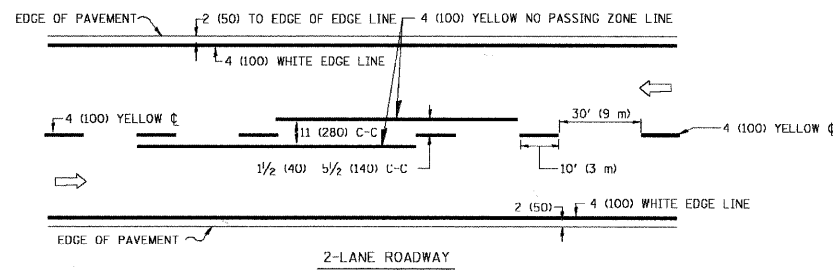
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MCHENRY COUNTY DIVISION OF TRANSPORTATION

DETAILS

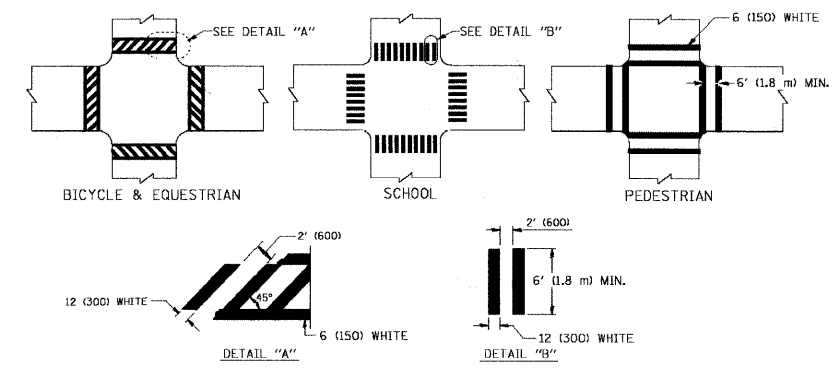
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TR. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 63552			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT	

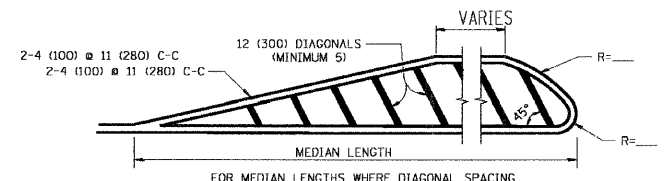
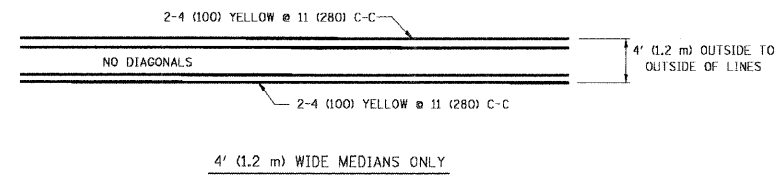


NOTE: MEDIANS WITH BARRIER CURBS DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

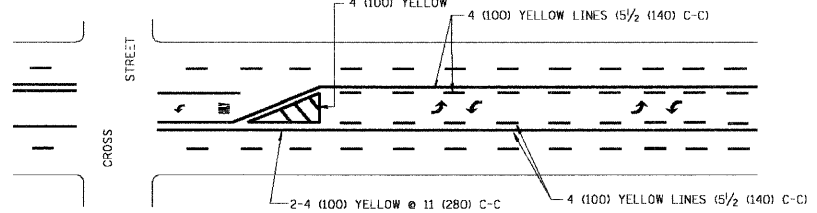


TYPICAL CROSSWALK MARKING

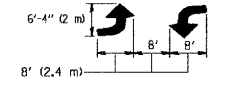


FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.
 DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
 75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
 150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

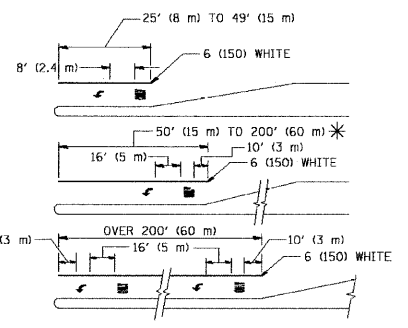


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

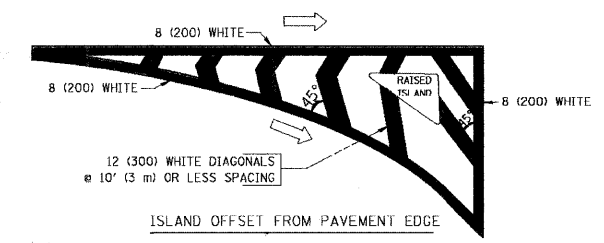
TYPICAL PAINTED MEDIAN MARKING



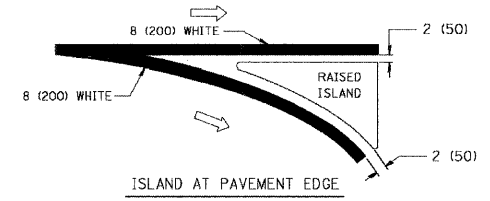
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
 * TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

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" 15' (4.8 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.

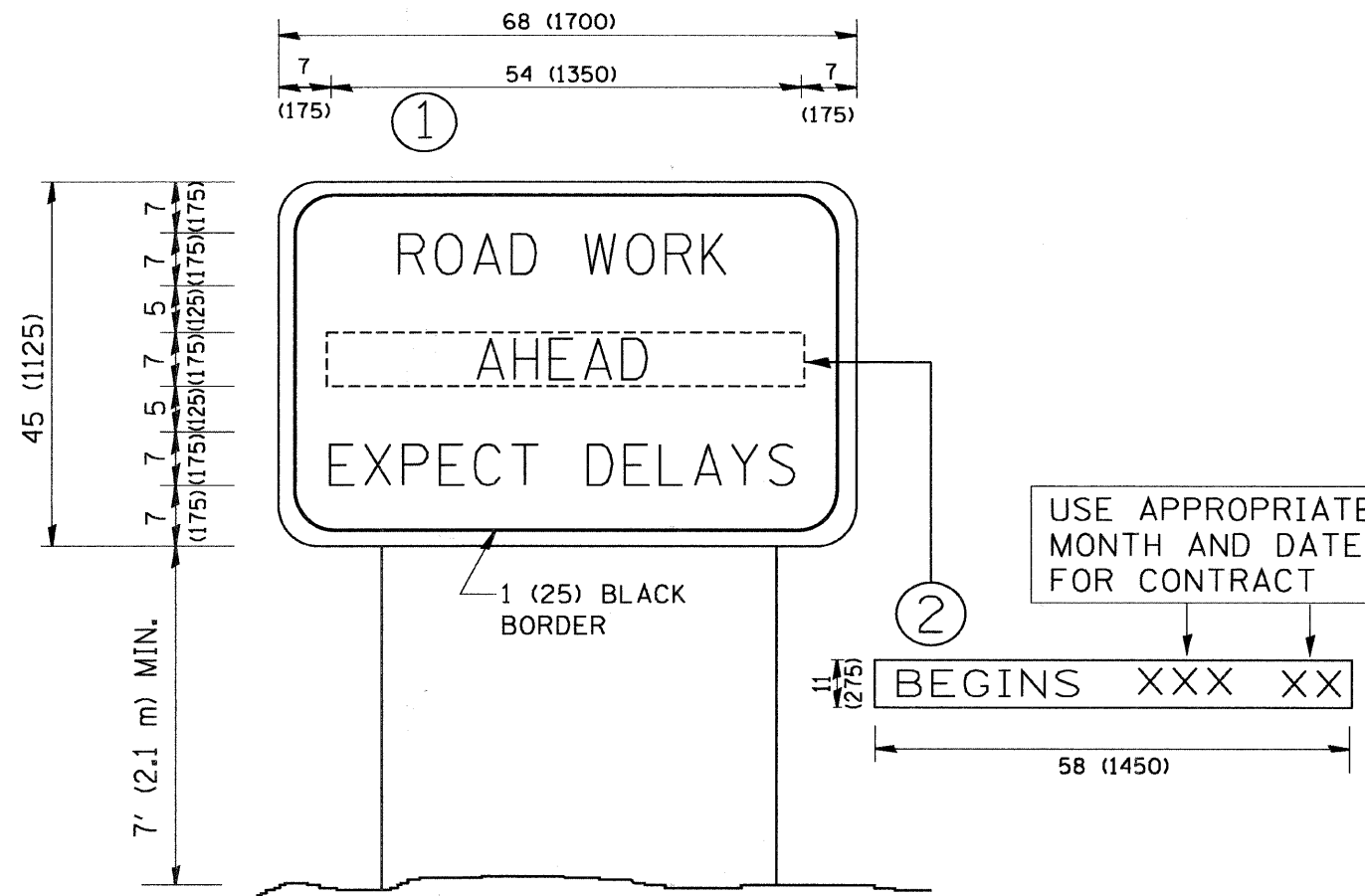
All dimensions are in inches (millimeters) unless otherwise shown.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE TYPICAL PAVEMENT MARKINGS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00340-00-BR	MCHENRY	46	37
TC-13		CONTRACT NO. 63552		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

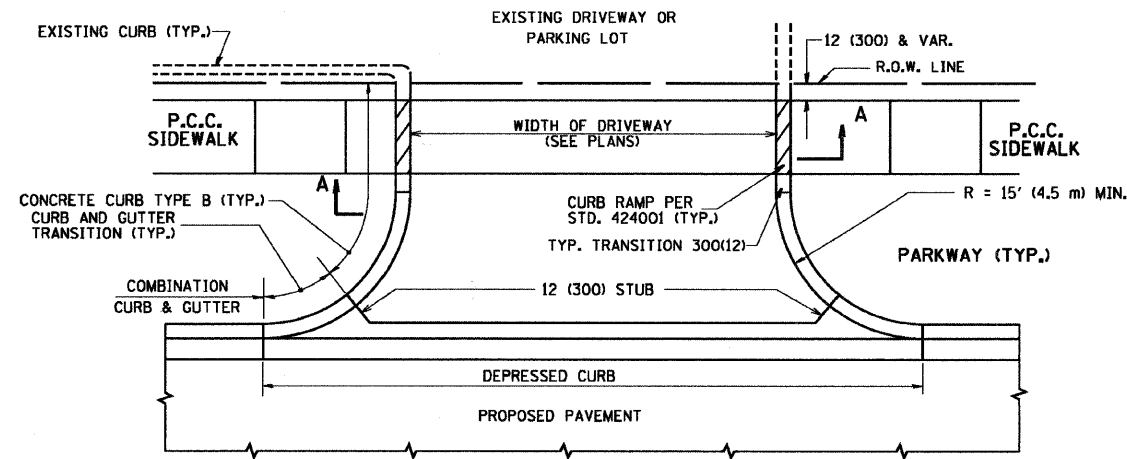


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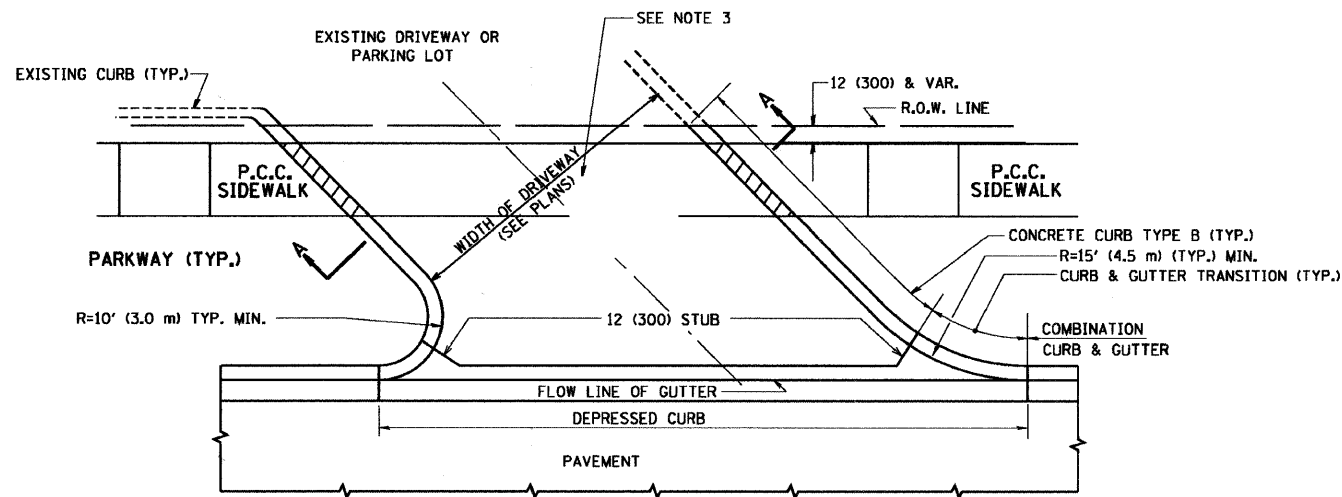
1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
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.

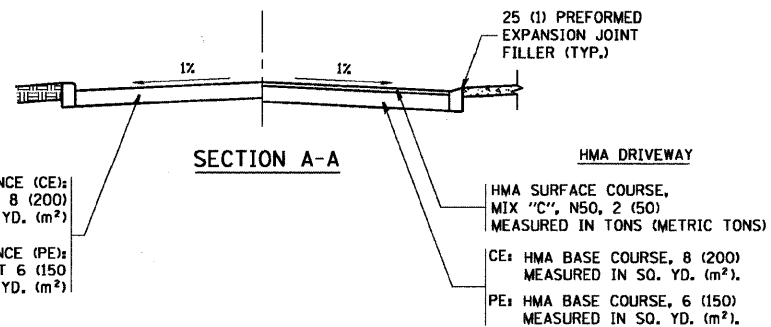
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	PLOT SCALE = 50.000 1 / IN.	DRAWN -	REVISED - R. MIRS 12-11-97		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	07-00340-00-BR	MCHENRY	46	38	
	PLOT DATE = 1/4/2008	CHECKED -	REVISED - T. RAMMACHER 02-02-99		TC-22			CONTRACT NO.		63552		
		DATE -	REVISED - C. JUCIUS 01-31-07					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



WITH CONCRETE CURB, TYPE B

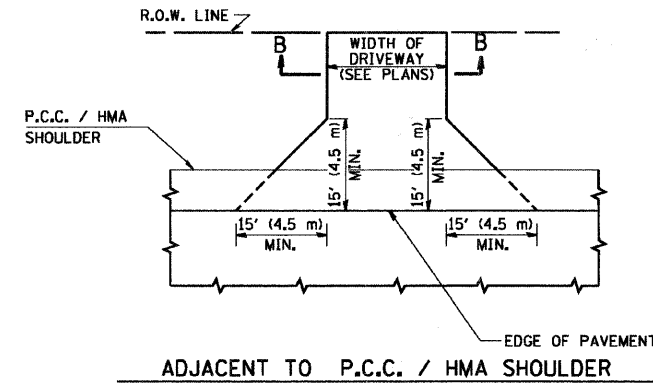


WITH CONCRETE CURB, TYPE B

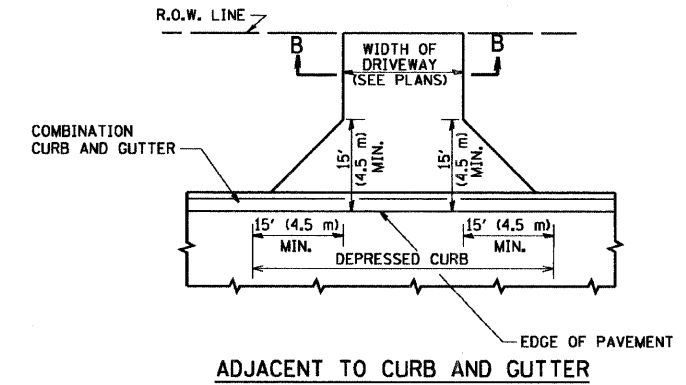


RIGID DRIVEWAY
 COMMERCIAL ENTRANCE (CE):
 P.C.C. DRIVEWAY PAVEMENT 8 (200)
 MEASURED IN SQ. YD. (m²)
 NON-COMMERCIAL ENTRANCE (PE):
 P.C.C. DRIVEWAY PAVEMENT 6 (150)
 MEASURED IN SQ. YD. (m²)

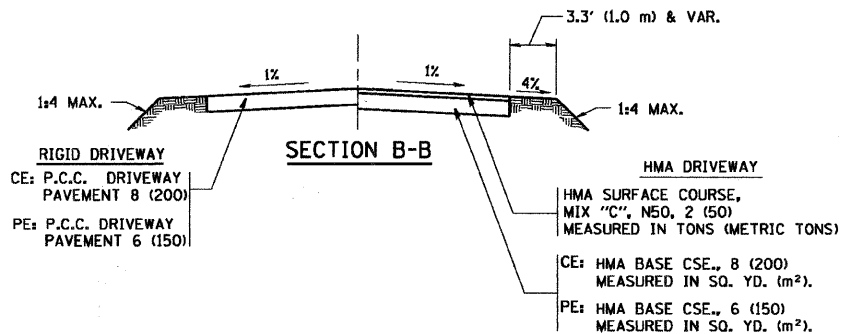
HMA DRIVEWAY
 HMA SURFACE COURSE,
 MIX "C", N50, 2 (50)
 MEASURED IN TONS (METRIC TONS)
 CE: HMA BASE COURSE, 8 (200)
 MEASURED IN SQ. YD. (m²),
 PE: HMA BASE COURSE, 6 (150)
 MEASURED IN SQ. YD. (m²)



ADJACENT TO P.C.C. / HMA SHOULDER



ADJACENT TO CURB AND GUTTER



SECTION B-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.

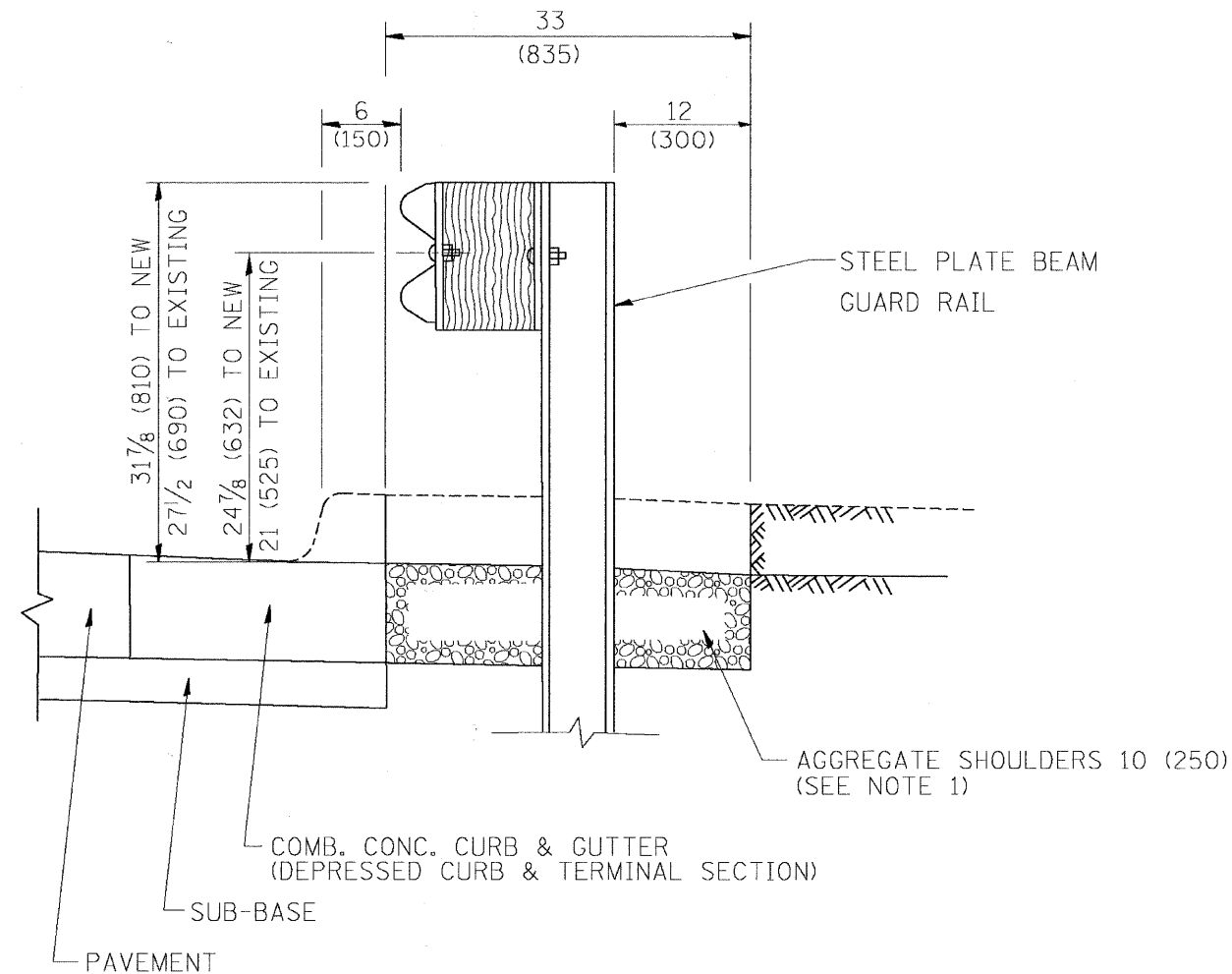
THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS, SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

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.

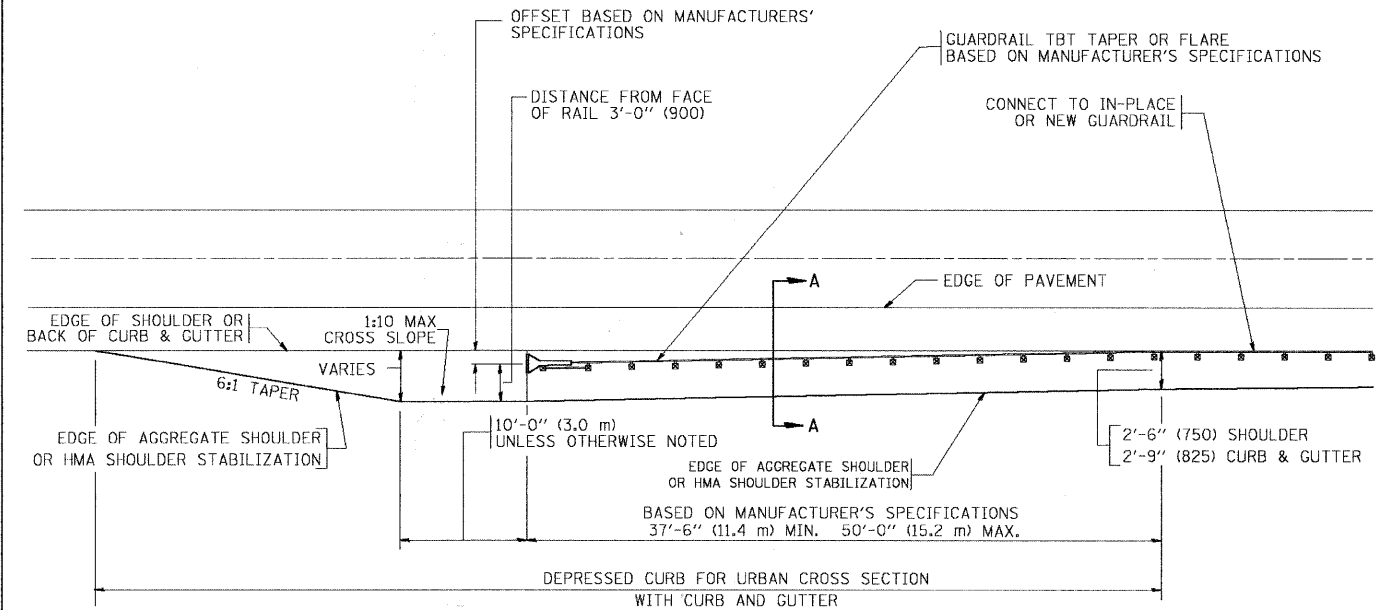
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PLOT SCALE = 49.9999 ' / IN.	PLOT DATE = 6/12/2008	DRAWN -	REVISED - P. LoFLUER 04-15-03		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	07-00340-00-BR	MCHENRY	46	39	
		CHECKED -	REVISED - R. BORO 01-01-07						BD0156-07 (BD-01)				CONTRACT NO. 63552
		DATE - 11-04-95	REVISED - R. BORO 06-11-08						FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



SECTION A-A

- NOTES:
1. THE AGGREGATE SHOULDER, 10" OR HMA SHOULDER, 6" (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
 2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
 3. THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL. THE TERMINAL SECTION HEIGHT TO BE PLACED MUST MATCH THE HEIGHT OF THE IN-PLACE GUARDRAIL.

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



**DEPRESSED CURB AND GUTTER AND
SHOULDER TREATMENT AT TBT TY. 1 SPL.**

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

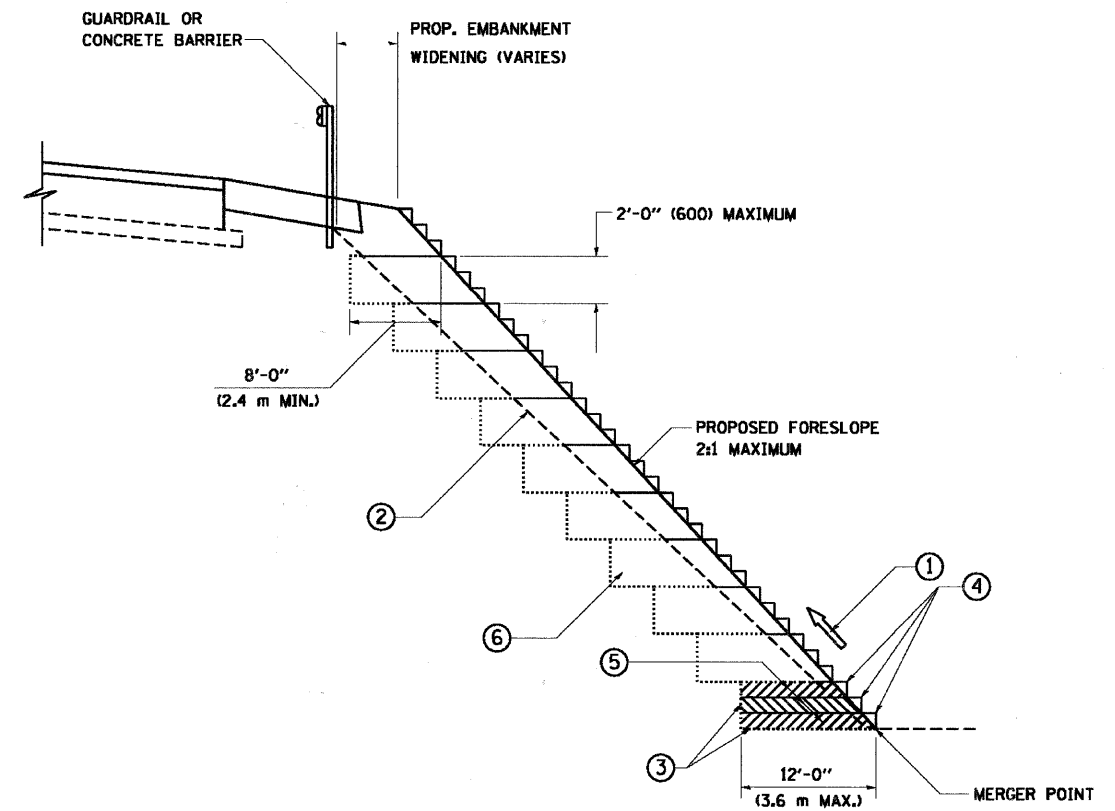
STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

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

FILE NAME =	USER NAME = drsvakosgn	DESIGNED - M. DE YONG	REVISED - E. GOMEZ 08-28-00
ca\pwwork\VPWIDOT\DRIVAKOSGN\d0188315\034.dgn		DRAWN -	REVISED - R. BORO 01-01-07
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA.	TO STA.
DETAILS FOR DEPRESSED CURB & GUTTER AND SHOULDER TREATMENT AT TBT TY 1 SPL.					
FALL RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	07-00340-00-BR	MCHENRY	46	40	
BD600-10 (BD 34)			CONTRACT NO. 63552		
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).

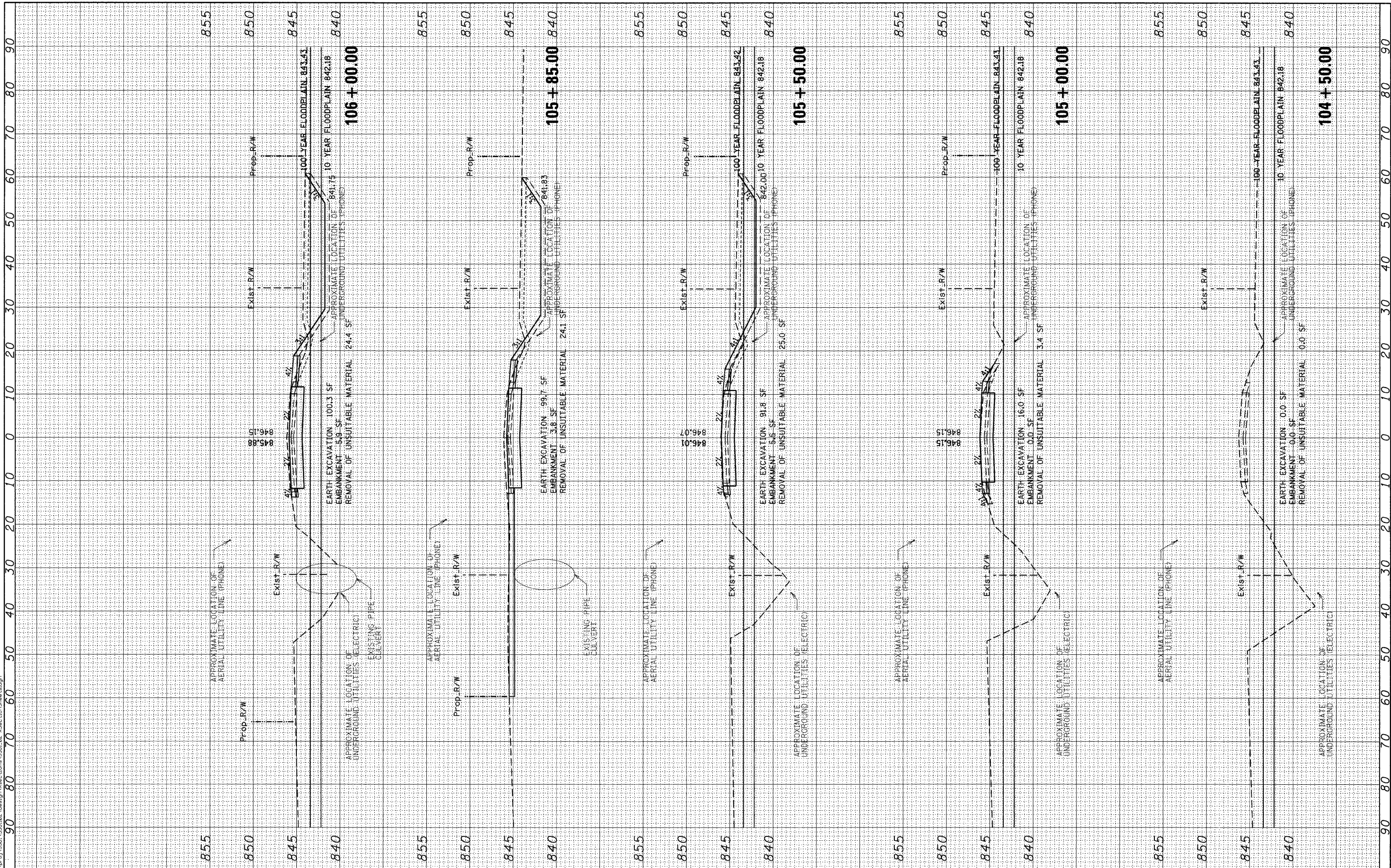
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

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		DATE - 06-16-04	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BENCHING DETAIL FOR EMBANKMENT WIDENING		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	07-00340-00-BR	MCHENRY	46	41
		TO STA.	BD-51			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT CONTRACT NO. 63552						

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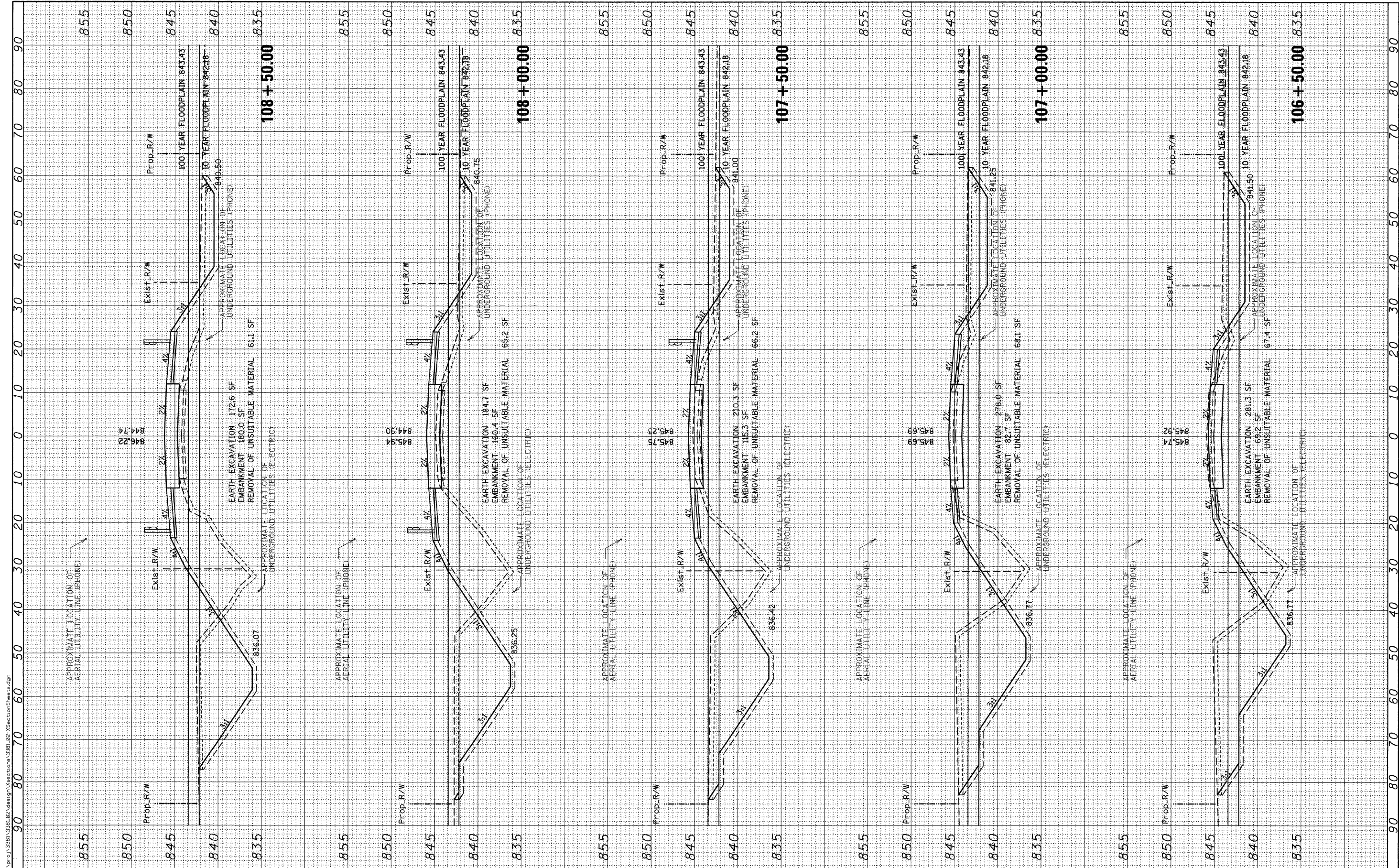
Ciorba Group, Inc.
 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60656
 Tel. 773.775.4009 Fax 773.775.4014

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PLOT DATE = 2/4/2011	CHECKED - MJL	REVISED -
	DATE - 02/07/2011	REVISED -

McHENRY COUNTY DIVISION OF TRANSPORTATION

DUNHAM ROAD CROSS SECTIONS
 SCALE: 1"=5' (V) 1"=10' (H)
 STA. 104+50.00 TO STA. 106+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00340-00-BR	MCHEMRY	46	42
CONTRACT NO. 63552		ILLINOIS FED. AID PROJ. ECT		



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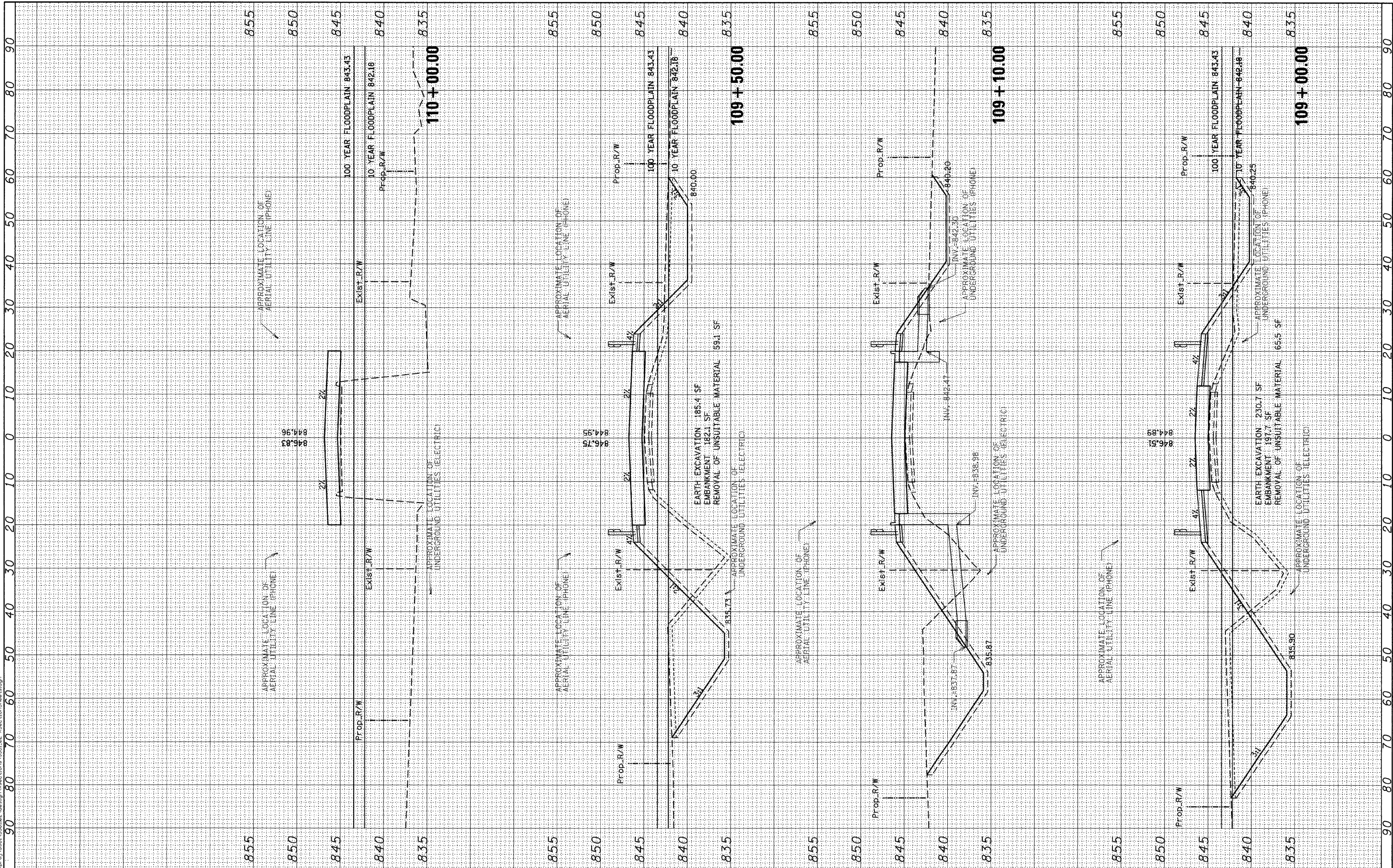
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PLOT DATE = 2/4/2011	CHECKED - MJL	REVISED -
	DATE - 02/07/2011	REVISED -

McHENRY COUNTY DIVISION OF TRANSPORTATION

DUNHAM ROAD CROSS SECTIONS
 SCALE: 1"=5' (V) 1"=10' (H)
 STA. 106+50.00 TO STA. 108+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00340-00-BR	McHENRY	46	43
CONTRACT NO. 63552			ILLINOIS FED. AID PROJECT	

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

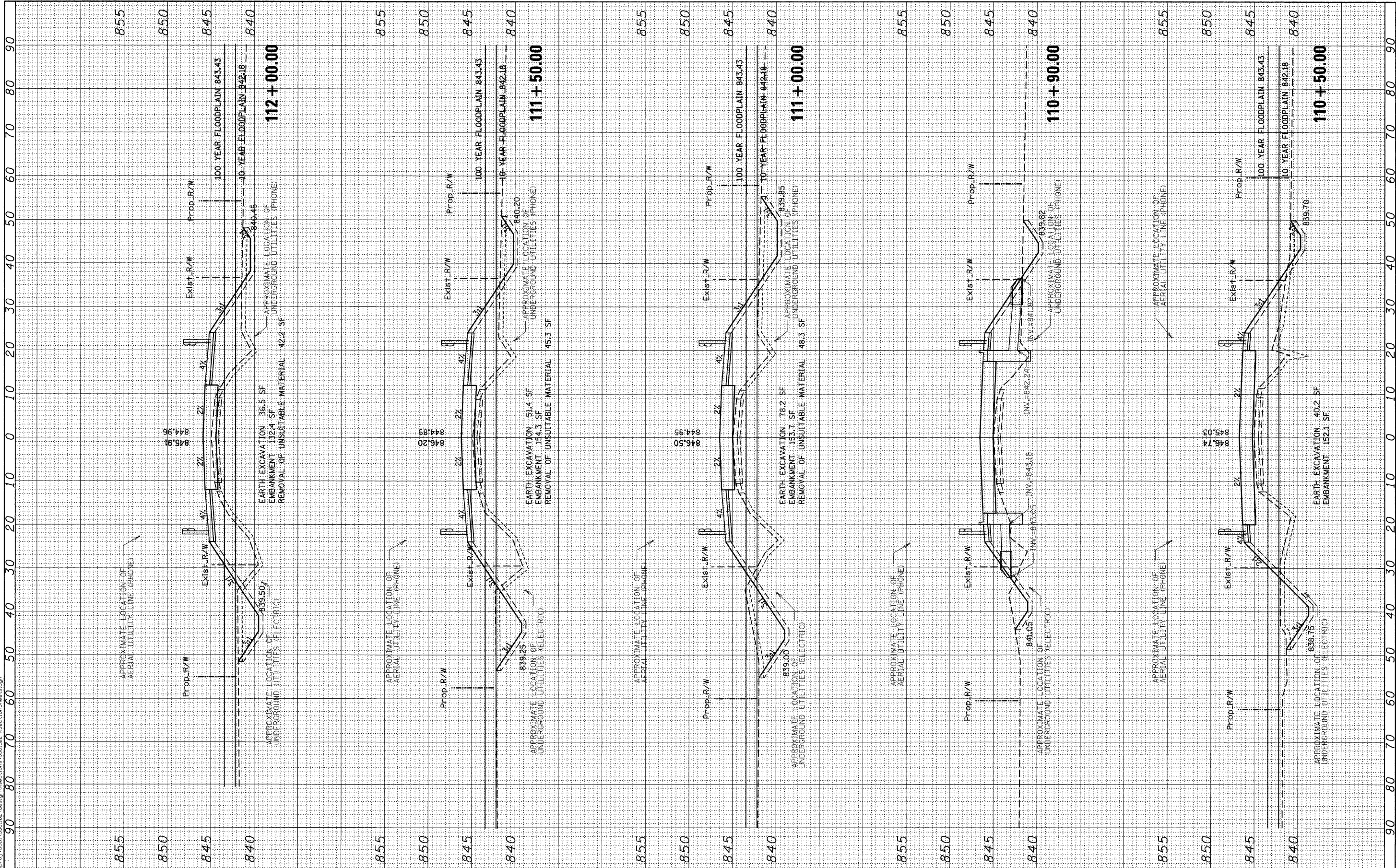
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PLOT DATE = 2/4/2011	CHECKED - MJL	REVISED -
	DATE - 02/07/2011	REVISED -

McHENRY COUNTY DIVISION OF TRANSPORTATION

DUNHAM ROAD CROSS SECTIONS
 SCALE: 1"=5' (V) 1"=10' (H)
 STA. 109+00.00 TO STA. 110+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00340-00-BR	MCHEMRY	46	44
CONTRACT NO. 63552				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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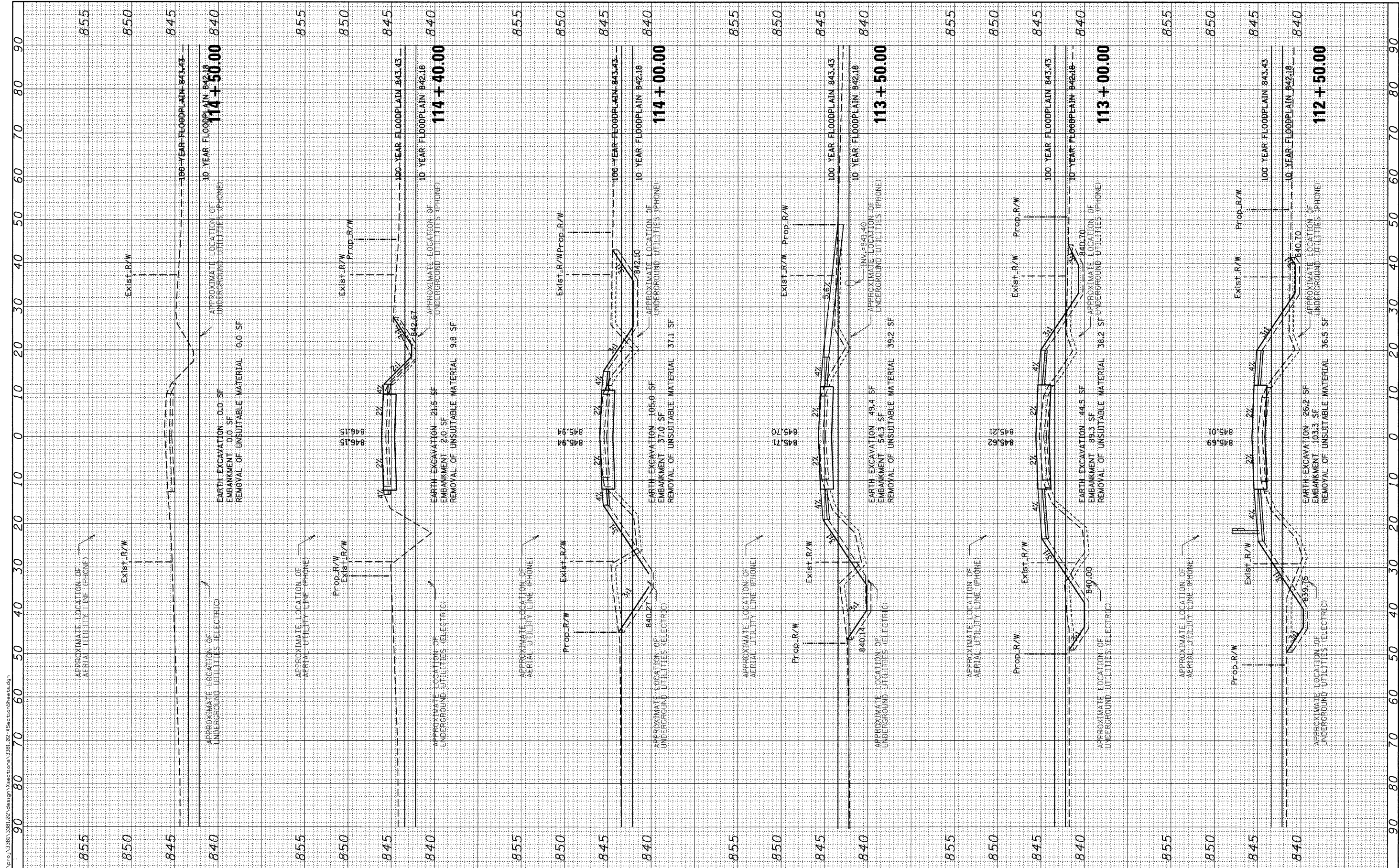
Ciorba Group, Inc.
 CONSULTING ENGINEERS
 5507 North Cumberland Avenue, Suite 402
 Chicago, Illinois 60656
 Tel. 773.775.4009 Fax 773.775.4014

USER NAME = espino	DESIGNED - WBL	REVISED -
PLOT SCALE = 10.0000' / IN.	DRAWN - WBL	REVISED -
PLOT DATE = 2/4/2011	CHECKED - MJL	REVISED -
	DATE - 02/07/2011	REVISED -

McHENRY COUNTY DIVISION OF TRANSPORTATION

DUNHAM ROAD CROSS SECTIONS
 SCALE: 1"=5' (V) 1"=10' (H)
 STA. 110+50.00 TO STA. 112+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00340-00-BR	MCHEMRY	46	45
CONTRACT NO. 63552				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



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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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PLOT DATE: 2/4/2011	CHECKED: MJL	REVISED:
	DATE: 02/07/2011	REVISED:

McHENRY COUNTY DIVISION OF TRANSPORTATION

DUNHAM ROAD CROSS SECTIONS

SCALE: 1"=5' (V) 1"=10' (H)

STA. 112+50.00 TO STA. 114+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	07-00340-00-BR	MCHEMRY	46	46
CONTRACT NO. 63552				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			