

C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
23	06-00414-00 BR	WINNEBAGO	10	1
STA. 14+30		TO STA. 16+67		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

INDEX OF SHEETS

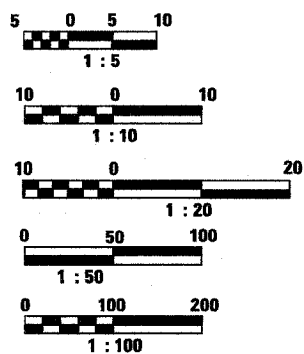
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	GENERAL NOTES, SUMMARY OF QUANTITIES, EARTHWORK SCHEDULE AND ALIGNMENT & TIES
3	TYPICAL SECTIONS
4	DETOUR PLAN
5	PLAN AND PROFILE
6	GENERAL PLAN AND ELEVATION
7	FOOTING PLAN AND DETAILS
8-10	CROSS SECTIONS

LIST OF STANDARDS

000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-04	TEMPORARY EROSION CONTROL SYSTEMS
630001-07	STEEL PLATE BEAM GUARDRAIL
630101-07	GUARDRAIL MOUNTED ON EXISTING CULVERTS
630301-04	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
635006-02	REFLECTOR AND TERMINAL MARKER PLACEMENT
701006-02	OFF-ROAD OPERATIONS
701201-02	LANE CLOSURE, 2 LANE, 2 WAY: DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-02	LANE CLOSURE, 2 LANE, 2 WAY: SHORT TIME OPERATIONS
701306-01	LANE CLOSURE, 2 LANE, 2 WAY: SLOW MOVING OPERATIONS DAY ONLY FOR SPEEDS ≥ 45 MPH
701311-02	LANE CLOSURE, 2 LANE, 2 WAY: MOVING OPERATIONS- DAY ONLY
701901	TRAFFIC CONTROL DEVICES
720011	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
728001	TELESCOPING STEEL SIGN SUPPORT
729001	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS AND MARKERS)
780001-01	TYPICAL PAVEMENT MARKINGS
BLR 21-7	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 22-5	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON LOCAL HIGHWAYS (TWO LANE, TWO WAY RURAL TRAFFIC) (ROAD CLOSED TO THRU TRAFFIC)

TRAFFIC DATA
 3R GUIDELINES
 HIGHWAY CLASSIFICATION: RURAL COLLECTOR
 ADT: 350 (2008) 1% TRUCKS
 DESIGN SPEED: 40 mph
 CLOSED ROAD ADT: 20

ENGLISH RATIOS



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

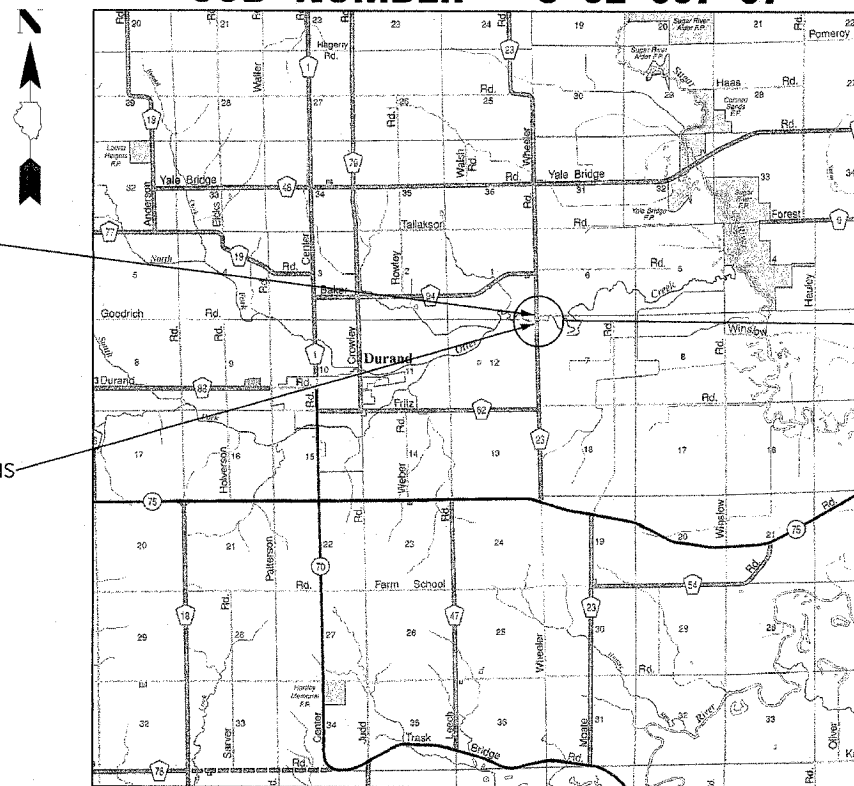
J.U.L.I.E.
 JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
 1-800-892-0123

CONTRACT NO. 85433

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS**

**PLANS FOR PROPOSED
 BRIDGE REHABILITATION PROJECT
 (CH 23) WHEELER ROAD
 OVER OTTER CREEK**

**STRUCTURE NO. SN 101-3097
 WINNEBAGO COUNTY
 SECTION NO. 06-00414-00-BR
 PROJECT BROS-201(23)
 JOB NUMBER - C-92-067-07**



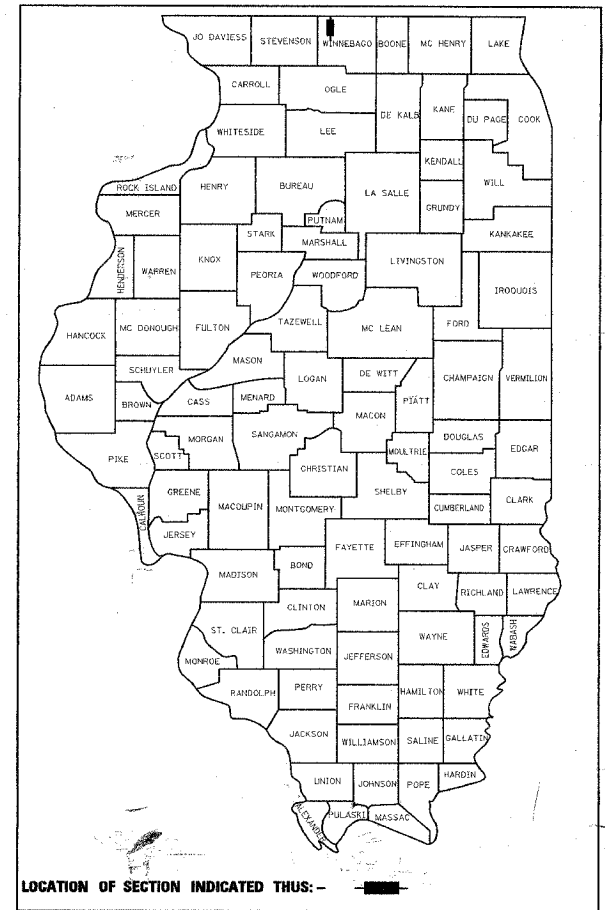
IMPROVEMENT ENDS
 STATION 16+67

IMPROVEMENT BEGINS
 STATION 14+30

PROPOSED IMPROVEMENT
 3 SIDED CONCRETE
 STRUCTURE
 PRECAST CONCRETE
 WING WALLS
 PRECAST CONCRETE
 SUBSTRUCTURE

R.I.E., 7TH P.M.
LOCATION MAP
 (NOT TO SCALE)

WHEELER ROAD NET PROJECT LENGTH 237 FEET (0.045 MI.)
 WHEELER ROAD GROSS PROJECT LENGTH 237 FEET (0.045MI.)



LOCATION OF SECTION INDICATED THIS: -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

Approved *April 14, 2008*
 Local Agency, Position, County Required

Passed *April 22, 2008*

Releasing for Bid
 Based on Limited
 Review *April 22, 2008*

Deputy Director of Highways, Region 1 Engineer

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

DICK M. TERRELL
 State of Illinois
 Professional Engineer
 No. 062-059235-1-10-08
 EXP. 11/30/09

HOMER L.
CHASTAIN
 & ASSOCIATES
 CONSULTING ENGINEERS

PHONE: 815-489-0090
 FAX: 815-489-0095
 LICENSE NO. 184.001397

GENERAL NOTES

- THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS. SEEDING CLASS 2A SHALL BE USED.
- FERTILIZER NUTRIENTS SHALL BE APPLIED AT THE RATE SPECIFIED IN SECTIONS 250 OF THE STANDARD SPECIFICATIONS. THIS SHALL BE INCLUDED IN THE COST OF THE SEEDING.
- REMOVAL OF EXISTING SEAL COAT ROADWAY WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE PAID FOR AS EARTH EXCAVATION.
- STRUCTURE EXCAVATION WILL BE PERFORMED AS REQUIRED TO THE LINES AND GRADES SHOWN IN THE PLANS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE STRUCTURE PER ARTICLE 502.13 OF THE STANDARD SPECIFICATIONS.
- ALL EMBANKMENT CONSTRUCTED OF COHESIVE SOIL SHALL BE CONSTRUCTED WITH NOT MORE THAN 110% OF OPTIMUM MOISTURE CONTENT, DETERMINED BY THE STANDARD PROCTOR TEST. COHESIVE SOIL SHALL BE DEFINED AS ANY SOIL WHICH CONTAINS GREATER THAN 10% PARTICLES BY WEIGHT PASSING THE #200 SIEVE. THE 110% OF OPTIMUM MOISTURE LIMIT MAY BE WAIVED OF FREE-DRAINING GRANULAR MATERIAL, WHEN APPROVED BY THE ENGINEER.
- THE NEW NUMBERS FOR THE CULVERT STRUCTURES ARE SN 101-3097 (EX SN 101-3010).
- STEEL PLATE BEAM GUARDRAIL, ATTACHED TO STRUCTURES SHALL BE MOUNTED PER STANDARD 630101-07, GUARDRAIL MOUNTED ON EXISTING CULVERTS.
- THE LOCATIONS OF THOSE BURIED AND ABOVEGROUND UTILITIES SHOWN ARE APPROXIMATE, ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE CONTRACTOR SHALL NOTIFY JULIE A MINIMUM OF 48 HOURS BEFORE CONSTRUCTION IS TO BEGIN. THE JULIE NUMBER IS 800-892-0123. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
- THE CONTRACTOR SHALL ONLY USE COUNTY ROUTES AND DETOUR ROUTES FOR HAULING MATERIALS AND EQUIPMENT. THERE WILL BE NO EXCEPTIONS UNLESS WRITTEN PERMISSION IS GIVEN FROM A JURISDICTION, TOWNSHIP OR COUNTY. A RECORD OF THIS AUTHORIZATION SHALL BE GIVEN TO THE RESIDENT ENGINEER.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON COUNTY PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- ALL DIMENSIONS SHOWN ARE IN FEET UNLESS OTHERWISE NOTED. PAVEMENT THICKNESS AND MARKING WIDTHS ARE SHOWN IN INCHES UNLESS NOTED.
- WHERE SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS OR OTHERWISE REFERENCE THEIR LOCATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUB-SECTION MONUMENTS DESTROYED BY HIS OPERATIONS.
- THE CONTRACTOR SHALL PROTECT ALL TREES FROM DAMAGE DUE TO HIS OPERATIONS. THIS WORK WILL NOT BE PAID SEPARATELY, BUT SHALL BE INCLUDED IN ALL UNIT PRICES BID.
- ALL SAW CUTTING OF EXISTING PAVEMENT SHALL BE CONSIDERED INCLUDED IN EARTH EXCAVATION. THE MINIMUM SAW CUT DEPTH IN THE PAVEMENT SHALL BE FULL DEPTH OF THE EXISTING PAVEMENT TO ASSURE A SMOOTH TRANSITION FROM EXISTING PAVEMENT TO PROPOSED PAVEMENT.
- THE FOLLOWING MIX REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

SUMMARY OF QUANTITIES
CONSTRUCTION TYPE CODE: X028-2A

NUMBER	DESCRIPTION	UNIT	QUANTITY
20200100	EARTH EXCAVATION	CU YD	257
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	671
25000210	SEEDING, CLASS 2A	ACRE	0.2
25100630	EROSION CONTROL BLANKET	SQ YD	670
28000400	PERIMETER EROSION BARRIER	FOOT	764
35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	615
40600100	BITUMINOUS PRIME COAT	GAL	542
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	87
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	54
48101200	AGGREGATE SHOULDERS, TYPE B	TON	33
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50300225	CONCRETE STRUCTURES	CU YD	74
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3320
51201105	FURNISHING METAL SHELL PILES 14"	FOOT	1260
51202305	DRIVING PILES	FOOT	1260
51203200	TEST PILE METAL SHELLS	EACH	3
63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	150
63000025	STEEL PLATE BEAM GUARD RAIL, ATTACHED TO STRUCTURES	FOOT	152
63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	4
63200310	GUARDRAIL REMOVAL	FOOT	302
67100100	MOBILIZATION	L SUM	1
70101700	TRAFFIC CONTROL & PROTECTION	L SUM	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	30
70501000	WORKZONE PAVEMENT MARKING REMOVAL	SQ FT	8
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	534
78200400	GUARDRAIL REFLECTORS	EACH	8
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
X0323330	PRECAST CONCRETE SUBSTRUCTURE	L SUM	1
X003551	THREE-SIDED PRECAST CONCRETE STRUCTURE - 36' SPAN	FOOT	60
20013798	CONSTRUCTION LAYOUT	L SUM	1

EARTHWORK SCHEDULE

STATION	DISTANCE	EARTH EXCAVATION			EARTH EXCAVATION TO BE USED AS EMBANKMENT ADJUSTED FOR SHRINKAGE		EMBANKMENT			EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
		END AREA	AVG OF END AREAS	TOTALS	END AREA	AVG OF END AREAS	TOTALS	END AREA	AVG OF END AREAS	
13+50.00	-	0.0	-	-	0.0	0.0	-	0.0	0.0	-
14+00.00	50.00	0.0	0.0	-	-	1.7	0.9	-	-	-
14+48.00	48.00	27.3	13.7	24.3	20.6	27.2	14.5	25.7	-5.1	
14+50.00	2.00	28.8	27.1	2.0	1.7	31.8	29.5	2.3	-0.5	
14+80.00	10.65	0.0	13.4	5.3	4.5	151.0	91.4	56.1	-31.6	
14+89.30	5.64	0.0	0.0	0.0	0.0	293.3	222.2	46.4	-46.4	
14+77.10	7.80	0.0	0.0	0.0	0.0	3.6	148.5	42.9	-42.9	
Bridge	-	0.0	0.0	0.0	0.0	0.0	1.8	0.0	0.0	
15+42.00	-	246.8	124.3	0.0	0.0	0.0	0.0	0.0	0.0	
15+50.00	7.00	240.8	244.7	63.6	54.1	0.0	0.0	0.0	54.1	
15+51.30	1.30	348.0	284.4	15.2	12.9	0.0	0.0	0.0	12.9	
15+55.00	3.60	71.9	210.0	28.1	23.9	3.8	1.9	0.3	23.6	
16+04.25	12.99	32.0	52.0	25.0	21.2	17.6	10.7	5.1	16.1	
16+00.00	45.00	37.7	34.9	58.1	49.4	0.0	0.0	1.1	15.2	
18+00.00	50.00	0.0	18.9	34.9	29.7	0.0	0.0	1.0	28.7	
17+00.00	50.00	0.0	0.0	0.0	0.0	0.0	0.3	0.5	-0.5	
TOTALS	-	-	-	257	218	-	-	176	43	

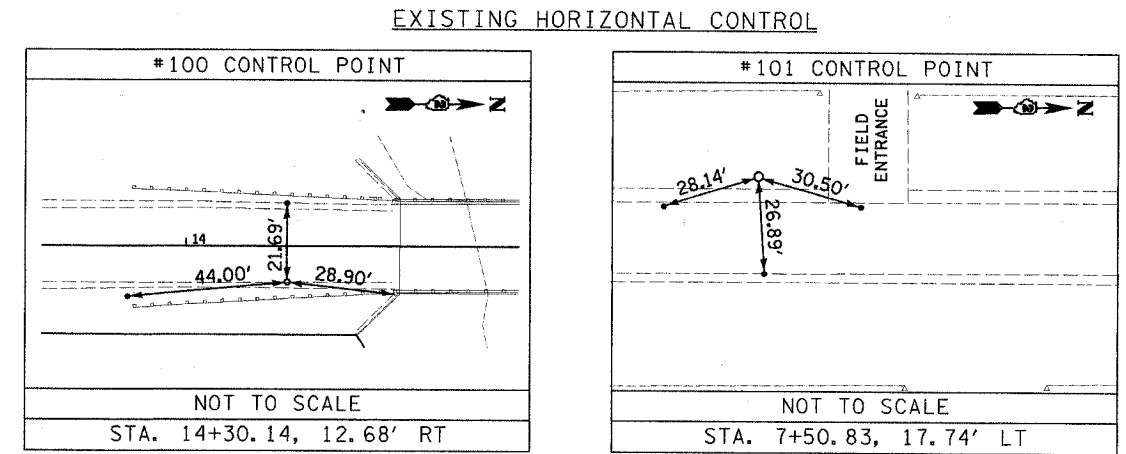
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23	06-00414-00-BR	WINNEBAGO	10	2
STA. 14+30	TO STA. 16+67			

CONTRACT: 85433

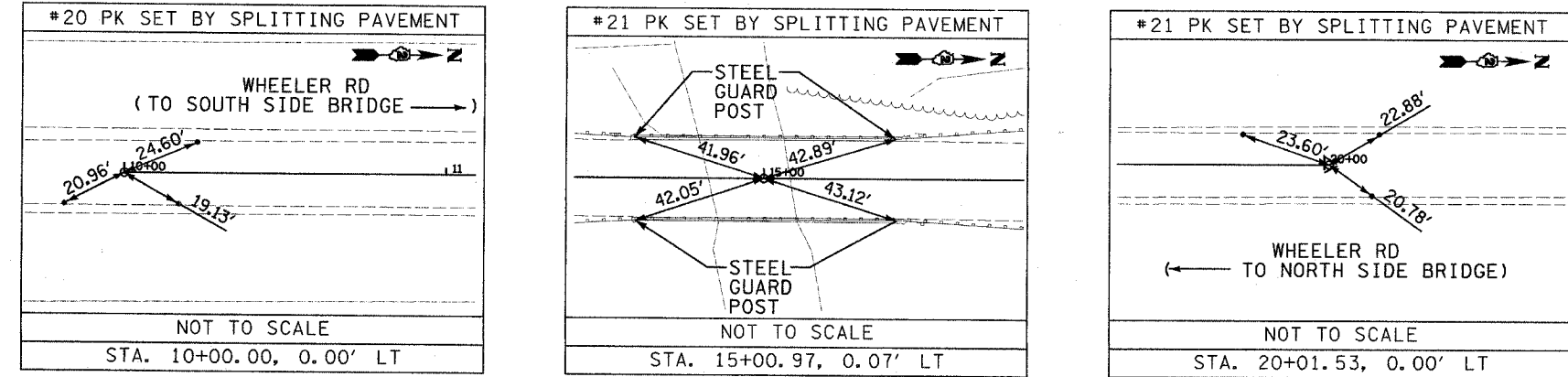
DATE: _____
BY: _____
SURVEYOR: _____
ALIGNMENT CHECKED: _____
NOTE BOOK NO.: _____
PLOT FILE NAME: _____

SURVEY DATA

SITE CONTROL POINTS & BENCHMARKS (WINNEBAGO COUNTY HORIZONTAL AND VERTICAL CONTROL DATUM, US FT.)				
NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
A99	2107761.503	2534772.512	748.488	COUNTY MONUMENT WIN 21.1N-05.5W A
100	2106933.402	2534834.22	749.65	IR W/CAP
101	2106253.457	2534826.602	747.63	IR W/CAP
20	2106503.082	2534835.977		NAIL IN CL PAVEMENT
21	2107003.769	2534819.099		NAIL IN CL PAVEMENT
22	2107504.044	2534802.377		NAIL IN CL PAVEMENT
BM10			750.23	"CHISELED BOX" ON TOP OF CONCRETE HEADWALL +/-3' SOUTH OF NORTHEAST CORNER OF BRIDGE, OTTER CREEK OVER WHEELER RD.
BM11			745.76	RR SPIKE IN WEST FACE OF UTILITY POLE, +/-15' NORTH OF OTTER CK BRIDGE AND +/-55' EAST OF CL WHEELER RD.



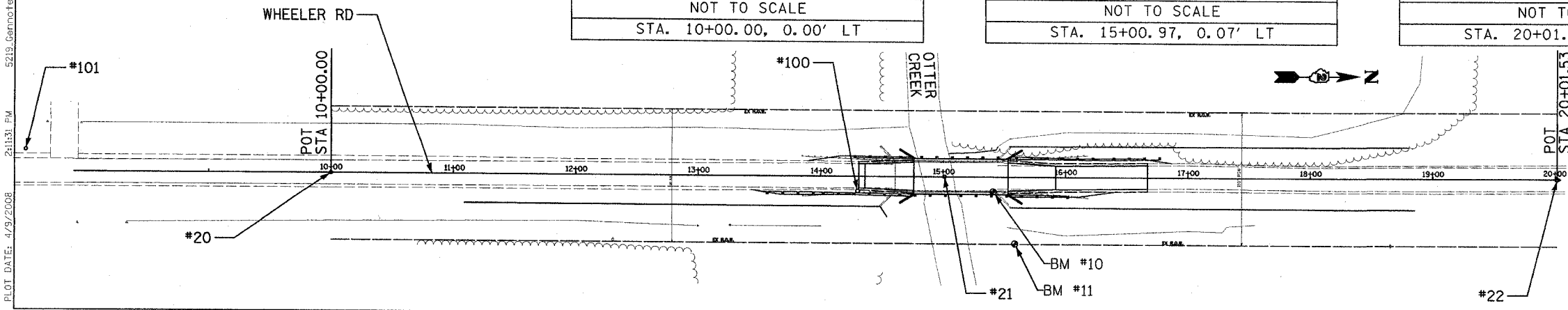
RECOVERY TIES



BITUMINOUS MIXTURE DESCRIPTION

MIX USES	SURFACE COURSE	BINDER COURSE
PG	58-28	58-28
DESIGN AIR VOIDS(%)	3.0 AT N50	3.0 AT N50
MIXTURE COMPOSITION	IL 9.5L OR IL 9.5'	IL 19.0
FRICTION AGGREGATE	C	N/A

PLOT DATE: 4/9/2008
5219.Germot.es.dgn



COMMITMENTS:
THE ILLINOIS DEPARTMENT OF NATURAL RESOURCES DETERMINED WETLANDS TO BE ADJACENT TO THE PROJECT LIMITS. THEY ARE LOCATED APPROXIMATELY 13 FEET FROM THE EDGE OF THE ROADWAY, NORTH AND SOUTH OF OTTER CREEK. PERIMETER EROSION BARRIER WILL BE INSTALLED ON THIS LINE AND ALL WORK MUST BE PERFORMED INSIDE THESE LIMITS.

REVISIONS

NAME	DATE

WINNEBAGO COUNTY HIGHWAY DEPARTMENT
WHEELER ROAD (CH 23)
SECTION 06-00414-00-BR
WINNEBAGO COUNTY
GENERAL NOTES
SUMMARY OF QUANTITIES
EARTHWORK SCHEDULE
ALIGNMENT & TIES
DRAWN BY: HLC

CITY HIGHWAY	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
23	06-00414-00-BR	WINNEBAGO	10	4
STA. 14+30		TO STA. 16+67		

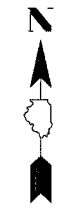
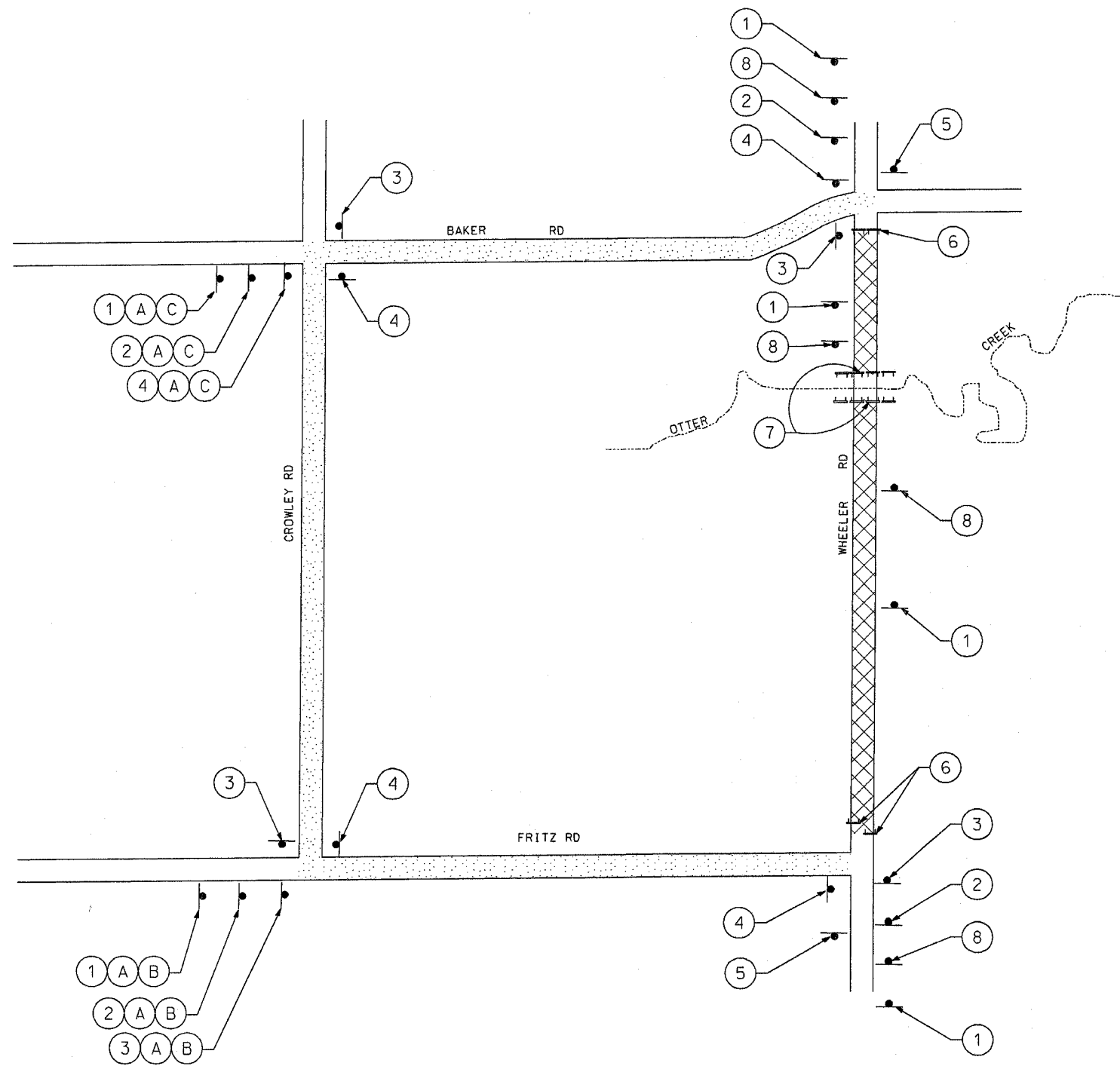
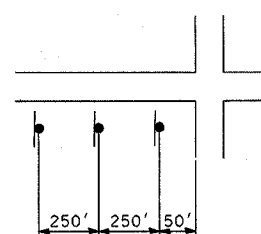
EXISTING CONDITIONS: CONTRACT: 85433

PLAN	BY	DATE
REVISIONS		
ALIGNMENT CHECKED		
NOTE BOOK		
NO.		

- ① W20-3
48" X 48"
- ② W20-2
48" X 48"
- ③ W17-1100
M4-9(L)
30" X 24"
- ④ M4-9(R)
30" X 24"
- ⑤ M4-8a
24" X 18"
- ⑥ R11-4
60" X 30"
(MOUNTED TO TYPE III BARRICADE)
- ⑦ R11-2
48" X 30"
(MOUNTED TO TYPE III BARRICADE)
- ⑧ W20-3(O)
48" X 48"
- A M3-3(O)
24" X 12"
- B M3-1(O)
24" X 12"
- C CUSTOM(O)
24" X 12"

LEGEND

- PROPOSED DETOUR ROUTE
- AREA OF CONSTRUCTION
- POST - MOUNTED SIGN (ANCHOR IN GROUND)
- TYPE III BARRICADE WITH STEADY BURN LIGHTS (NUMBER REQUIRED AS DIRECTED BY THE ENGINEER FOR PROPER CLOSURE)
- SIGN SPACING (TYP)



REVISIONS	
NAME	DATE

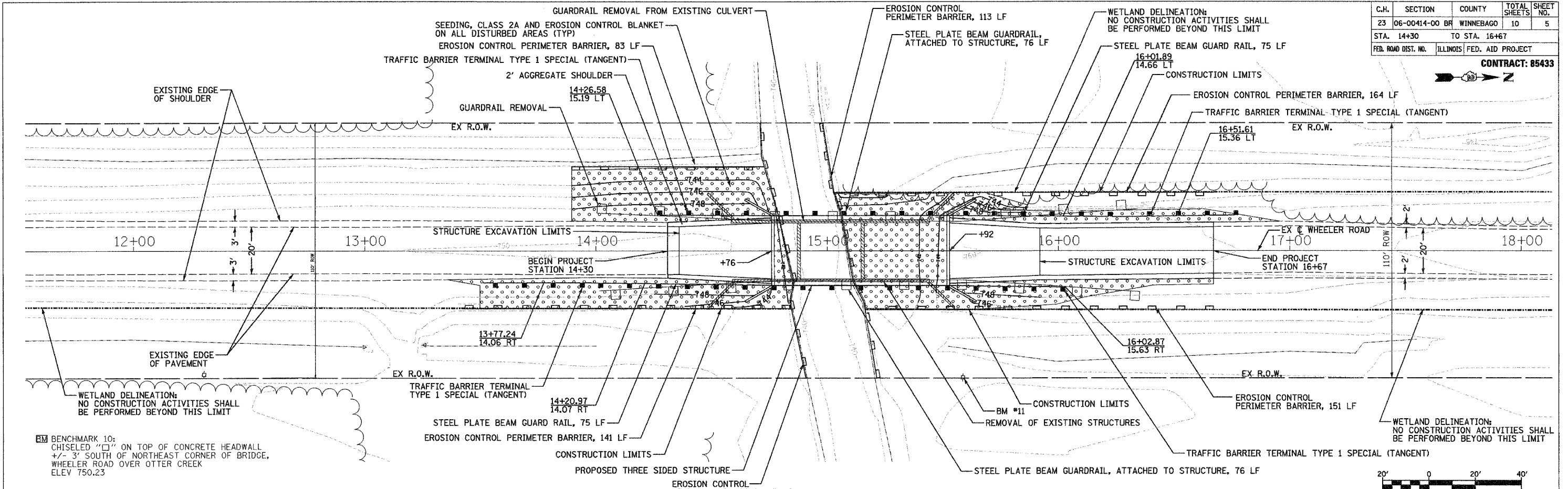
WINNEBAGO COUNTY HIGHWAY DEPARTMENT
 WHEELER ROAD (CH 23)
 SECTION 06-00414-00-BR
 WINNEBAGO COUNTY
 DETOUR PLAN
 DRAWN BY: HLC

PLOT DATE: 4/18/2008 11:17:35 AM 5219.detour.dgn

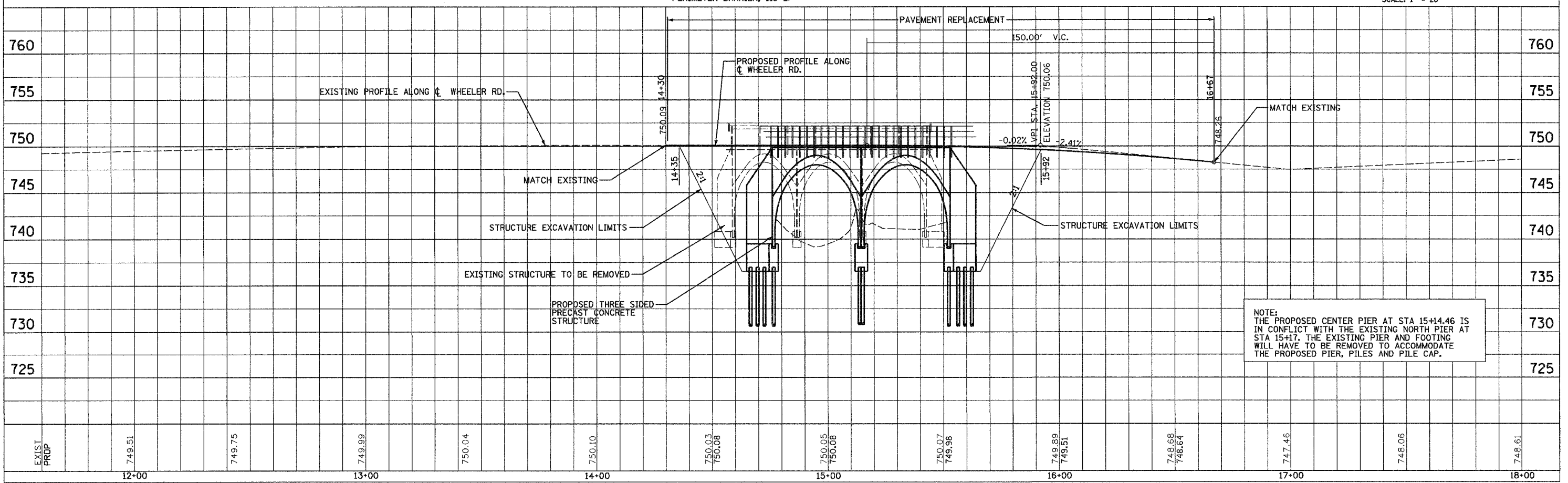
C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
23	06-00414-00 BR	WINNEBAGO	10	5
STA. 14+30		TO STA. 16+67		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT: 85433

PLAN	DATE
BY	
REVISIONS	
NO.	

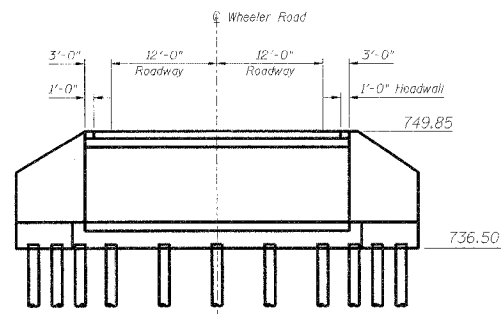


PROFILE	DATE
BY	
REVISIONS	
NO.	

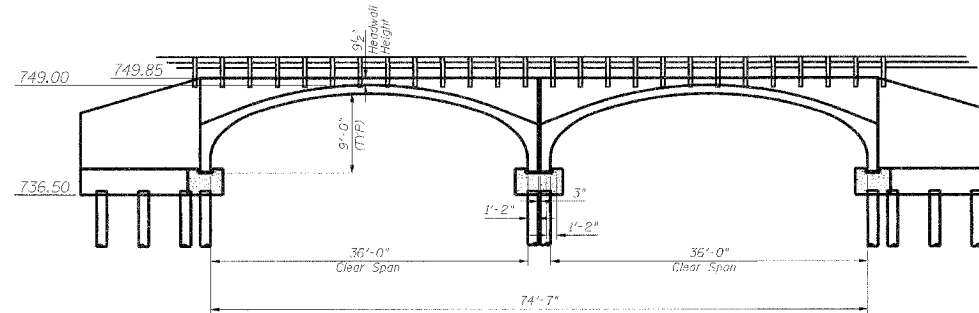


PLOT DATE: ##DATE## \$TIME\$

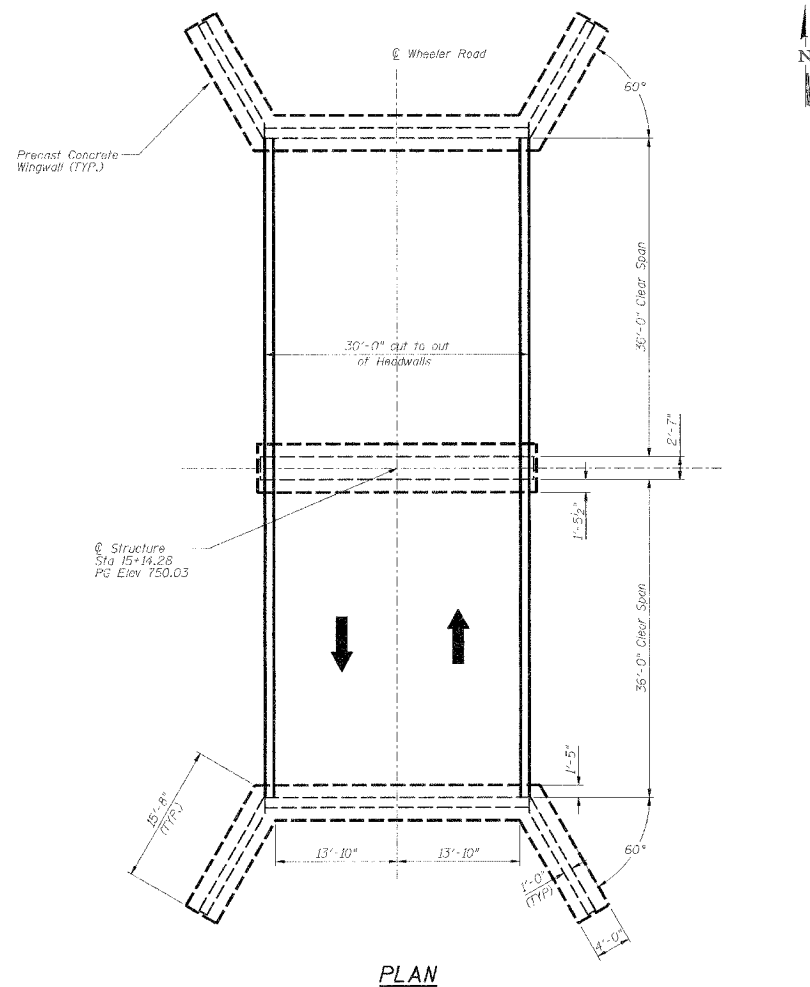
C.N.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
23	06-0084-00-08	WINNEBAGO	10	6
FEDERAL DIST. NO.		ILLINOIS	PROJECT	



LONGITUDINAL SECTION
Looking north at center of Clear Span



ELEVATION



PLAN

DESIGN SPECIFICATIONS

2002 AASHTO Bridge Design Specifications

LOADING HS-20

Allow 25#/sq. ft. for future wearing surface.

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)

PRECAST UNITS

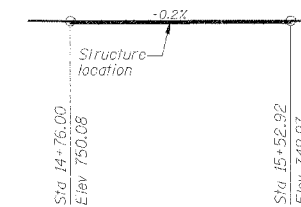
$f'_c = 5,000$ psi
 $f_y = 60,000$ psi (reinforcement)
 $f_y = 65,000$ psi (welded wire fabric)

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.04
Site Coefficient (S) = 1.5

PILES

Metal Shell Concrete Pile
Nominal required Bearing: 330 kips
Allowable Resistance Available: 110 kips
Estimated Length: 45 ft



PROFILE GRADE

GENERAL NOTES

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60.

All Construction joints shall be bonded.

The footing design for the precast structure is based on the following maximum service load reactions applied at the top of the footing:

Exterior Footing:
Vertical: 12.6 kips/ft @ + 3.5 kips/ft
Horizontal: 5.5 kips/ft @ + 1.5 kips/ft

Interior Footing:
Vertical: 25.2 kips/ft @ + 3.8 kips/ft
Horizontal: 0.0 kips/ft @ + 0.0 kips/ft

The Contractor shall verify that the selected structure meets these design parameters. If the design parameters are exceeded, a complete footing design with calculations, details and the required seals shall be submitted for review and approval.

After the keyways have been grouted and cured, the joints on all three sides of the structure shall be externally sealed using 12" wide external sealing bands conforming to Article 1057.01. Cost included with Three Sided Precast Concrete Structures.

The option of using precast footings is not allowed.

After the precast units are in place and the backfill has been placed to mid-height on each exterior side of the barrel, the space between adjacent units shall be filled with Class 51 Concrete. Cost included with Three Sided Precast Concrete Structures.

All details shown were developed assuming the use of precast wingwalls placed as shown. The Contractor has the option of using cast-in-place wingwalls. If the cast-in-place option is used, details for the wingwalls and revised footing details including calculations shall be submitted to the Engineer for approval.

TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Structures	Cu Yd	74.0
Reinforcement Bars, Epoxy Coated	Found	3320
Three Sided Precast Concrete Structure 36' Span	Foot	60
Precast Concrete Substructure	1 Sum	1
Furnishing Metal Shell Piles 14"	Foot	1260
Driving Piles	Foot	1260
Test Pile Metal Shells	Each	3
Removal of Existing Structures	Each	1
Steel Plate Beam Guard Rail, Attached to Structure	Foot	152

WATERWAY INFORMATION TABLE

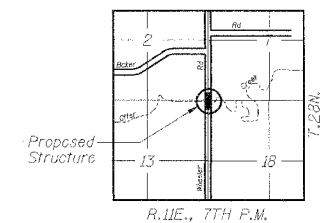
Drainage Area - 34.8 sq mi

Flood Yr.	Q C.F.S.	Opening Sq. Ft. Prop.	Wat. H.W.E.	Head - Ft. Prop.	Headwater E.L. Prop.	
Design	20	2641	377.8	746.57	0.37	746.94



Thomas E. Szokowicz 4-10-08
DATE: 4-10-08
EXP: 4/30/08

I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THIS BRIDGE DESIGN IS STRUCTURALLY ADEQUATE FOR THE DESIGN LOADING SHOWN ON THE PLANS. THE DESIGN IS AN ECONOMICAL ONE FOR THE STYLE OF STRUCTURE AND COMPLIES WITH THE REQUIREMENTS OF THE CURRENT "AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES."



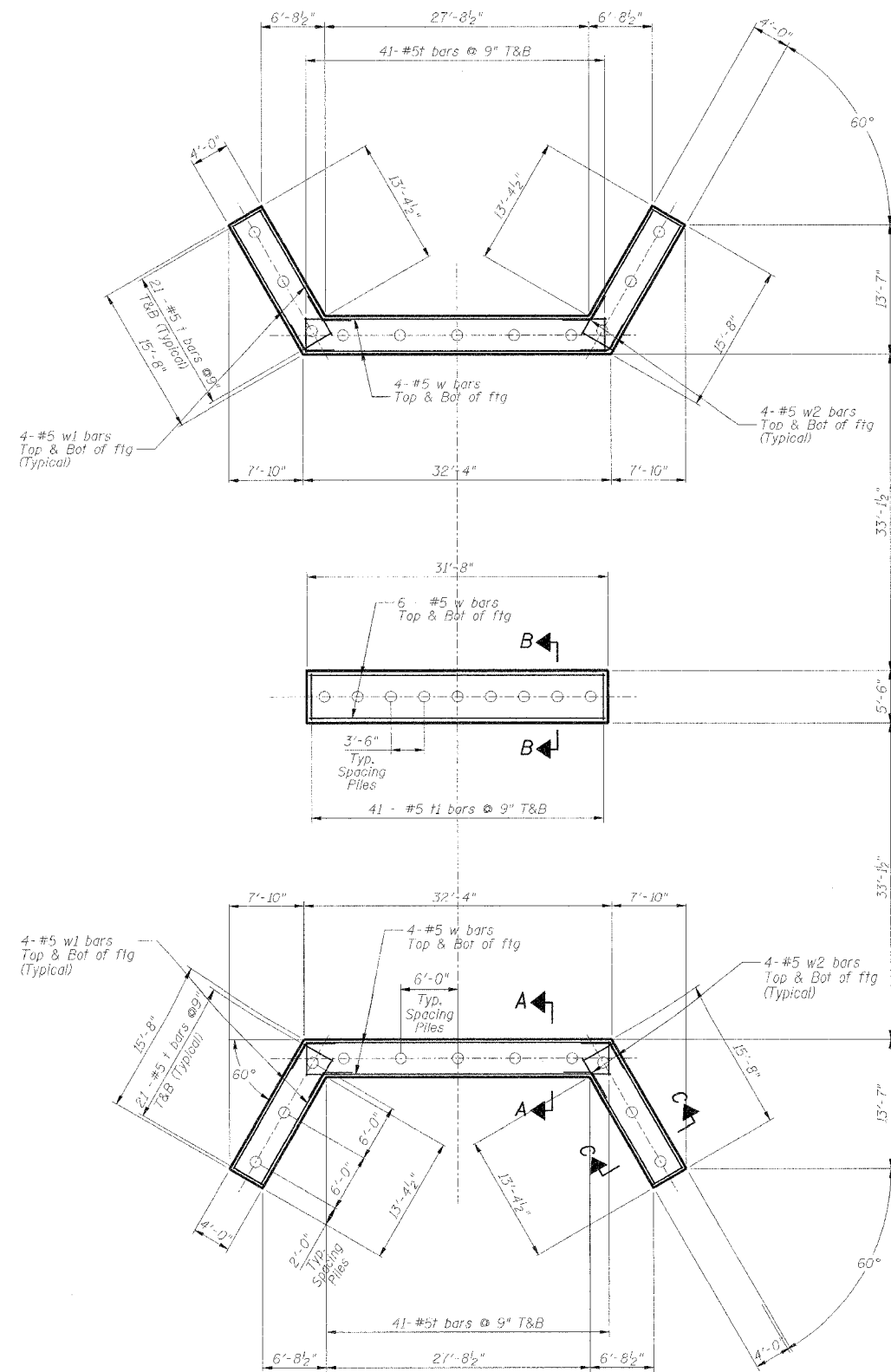
LOCATION SKETCH

GENERAL PLAN AND ELEVATION

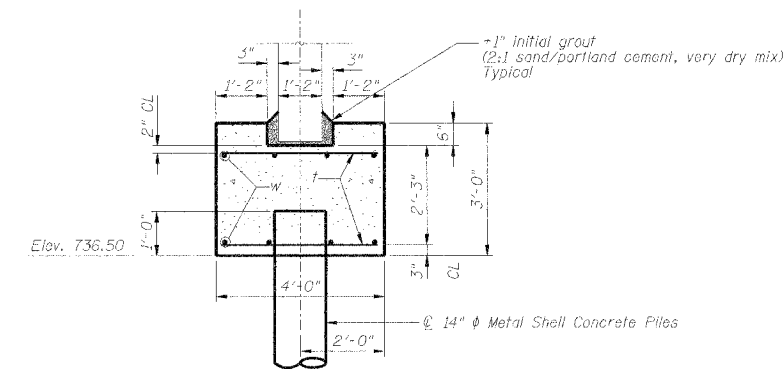
REVISIONS		WHEELER ROAD OVER OTTER CREEK		DRAWN BY DATE
NO.	DATE	INITIALS		DMN 08/07
1				
2				
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10				

WINNEBAGO	COUNTY	CHICAGO
HOMER L. CHASTAIN & ASSOCIATES, LLP CONSULTING ENGINEERS 184-001297		DECATUR (617) 222-8544 CHICAGO (773) 714-0050 ROCKFORD (815) 489-0050
PROJECT NO. 5219		SHEET NO.

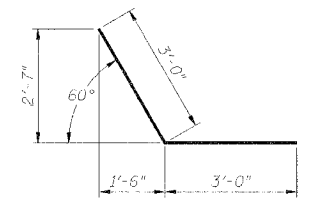
CAL.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
23	04-0004-02A	WINNEBAGO	10	7
FED. ROAD DIST. NO.		BLINDS	PROJECT	



FOUNDATION PLAN

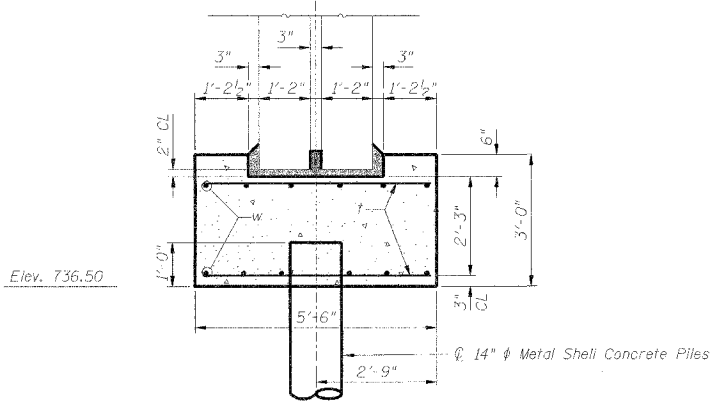


SECTION A-A

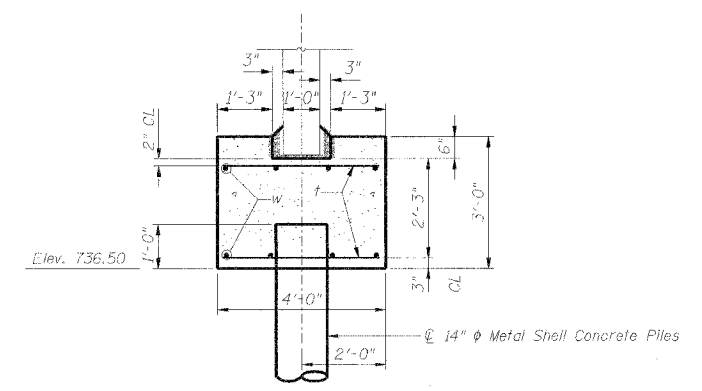


BAR w2

MIN BAR LAP
#5 bars = 2'-2"



SECTION B-B



SECTION C-C

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
f	332	#5	3'-8"	—
fl	82	#5	5'-2"	—
w	28	#5	31'-0"	—
w1	32	#5	15'-0"	—
w2	32	#5	6'-0"	—
Concrete Structures			Cu. Yd.	74.0
Reinforcement Bars			Pound	3320

NOTES

Structure footing is to be poured monolithically with wingwall footing.
 Bars indicated thus 8x3-#5 etc indicates 8 lines of bars with 3 lengths per line.
 Minor field variations may be required for three sided system selected. Major deviations shall be approved by the Engineer.
 Structure excavation is included with "Throo Sided Precast Concrete Structure 36' Span."
 Precast units shall be constructed and installed in accordance with manufacturer's specifications.

REVISIONS		WHEELER ROAD OVER OTTER CREEK		DRAWN BY	DATE
NO.	DATE	INITIALS		DMW	08/07
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					

WINNEBAGO	COUNTY	CHICAGO
HOMER L. CHASTAIN & ASSOCIATES, LLP		ROCKFORD
CONSULTING ENGINEERS		(815) 489-0050
184-00197		

PROJECT NO.	5219
SHEET NO.	

CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
23	98-0064-00-88	WINNEBAGO	10	8
STA. 13+00.00		TO STA. 14+60.66		
FED. RD. DIST. NO. 7		ILLINOIS PROJECT		

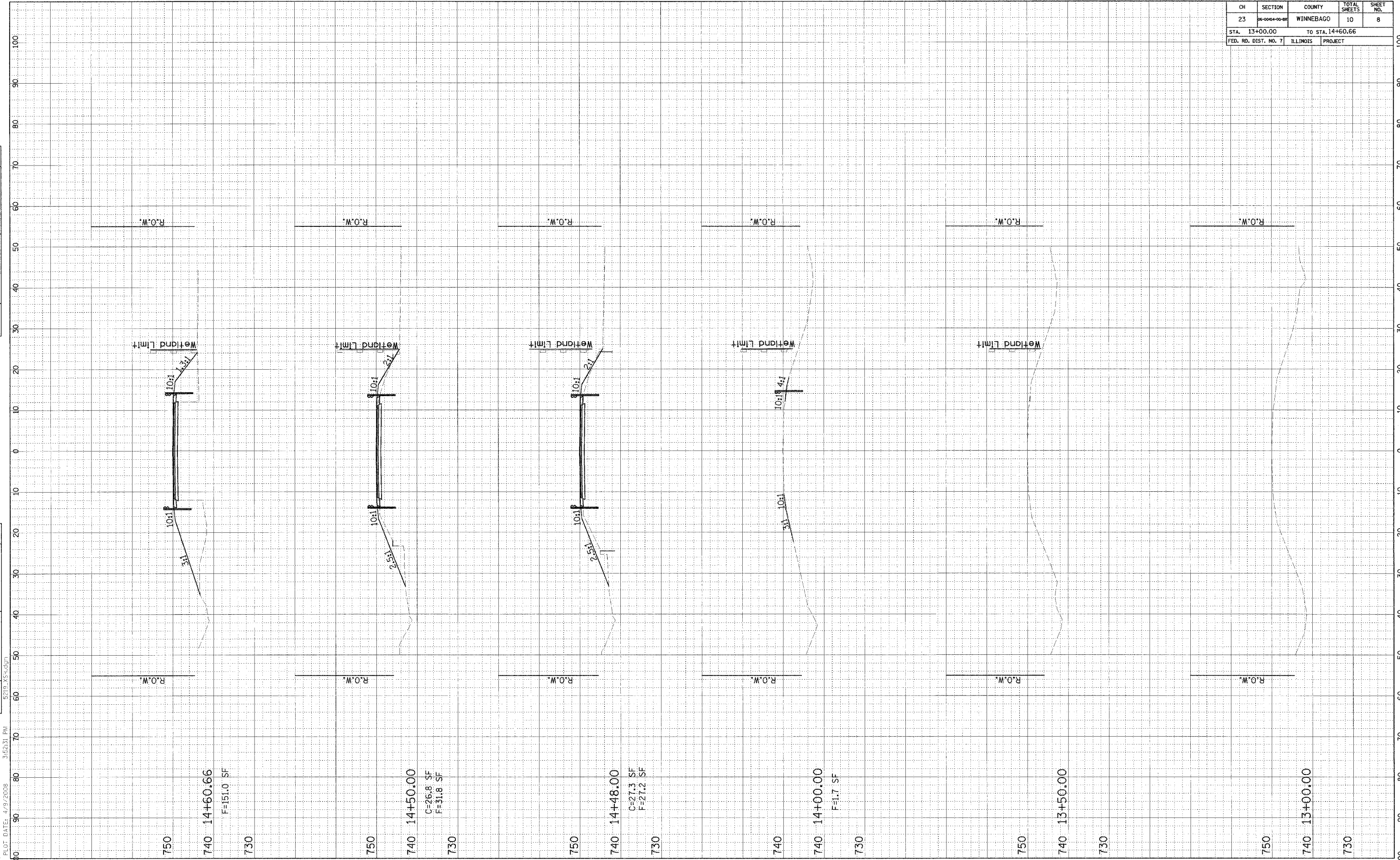
FINAL

SURVEYED	BY	DATE
PLOTTED		
NOTED		
RT. OF WAY CHECKED		
NO.		

ORIGINAL

SURVEYED	BY	DATE
PLOTTED		
NOTED		
RT. OF WAY CHECKED		
NO.		

PLOT DATE: 4/9/2008 3:52:31 PM



750
740 14+60.66
F=151.0 SF
730

750
740 14+50.00
C=26.8 SF
F=31.8 SF
730

750
740 14+48.00
C=27.3 SF
F=27.2 SF
730

740
740 14+00.00
F=1.7 SF
730

750
740 13+50.00
730

750
740 13+00.00
730

CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
23	08-0044-00-01	WINNEBAGO	10	9
STA. 14+66.30		TO STA. 15+55.00		
FED. RD. DIST. NO. 7		ILLINOIS PROJECT		

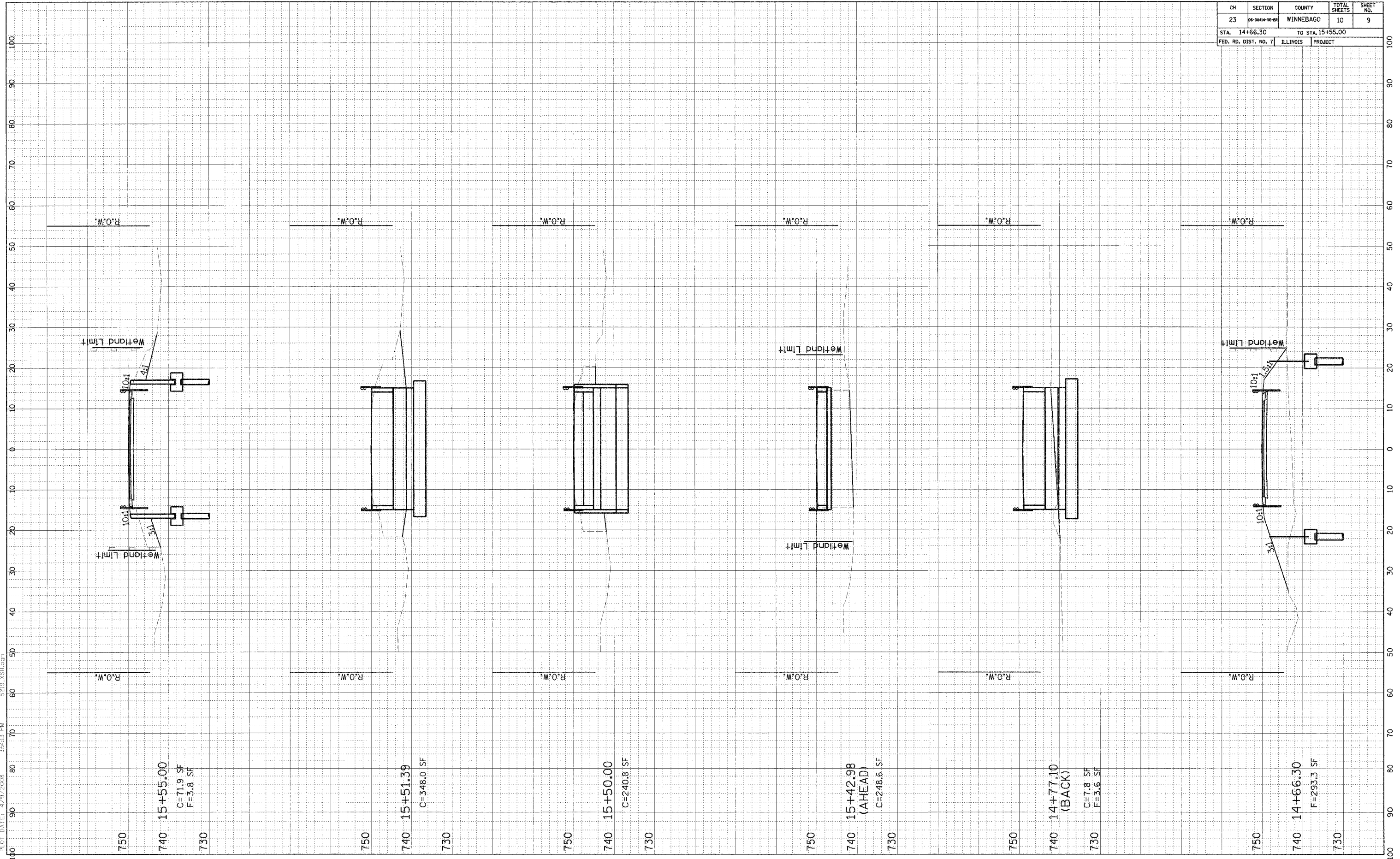
FINAL

CHECKED	DATE
PLOTTED	
ALIGNMENT CHECKED	
BY	
NO.	

ORIGINAL

CHECKED	DATE
PLOTTED	
GRADES CHECKED	
BY	
NO.	

PLOT DATE: 4/9/2008 3:54:13 PM 5219 USH-C03



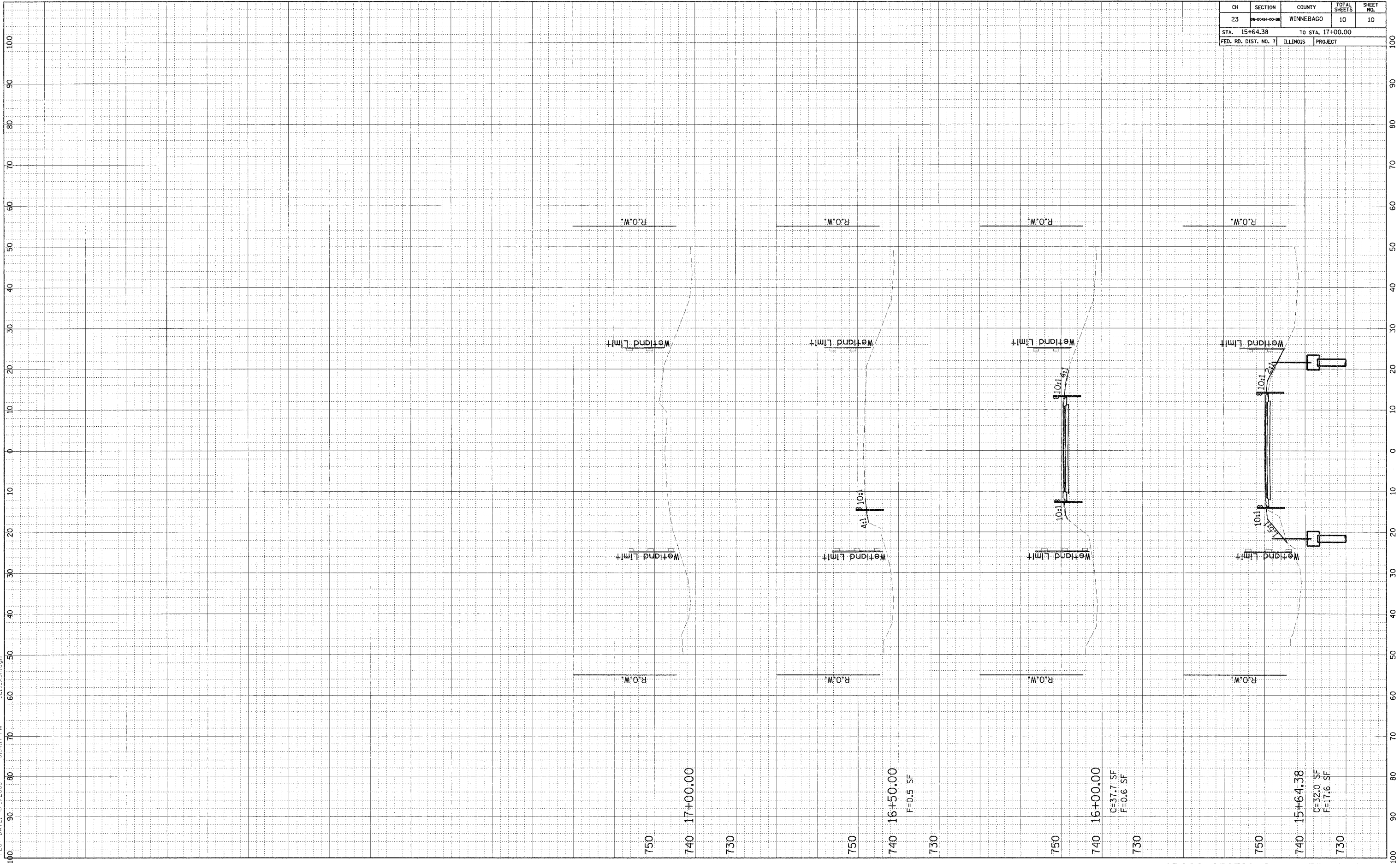
CROSS SECTIONS - WHEELER ROAD

CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
23	06-0044-00-08	WINNEBAGO	10	10
STA. 15+64.38		TO STA. 17+00.00		
FED. RD. DIST. NO. 7		ILLINOIS PROJECT		

FINAL	SURVEYED	BY	DATE
NOTED	PLOTTED		
NO.	NO.		

ORIGINAL	SURVEYED	BY	DATE
NOTED	PLOTTED		
NO.	NO.		

PLC DATE: 4/9/2008 3:54:17 PM



CROSS SECTIONS - WHEELER ROAD