

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

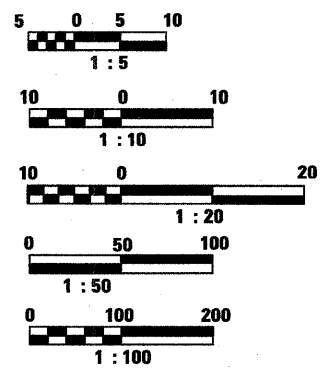
**LIST OF STANDARDS**

000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-04	TEMPORARY EROSION CONTROL SYSTEMS
630001-08	STEEL PLATE BEAM GUARDRAIL
630101-08	GUARDRAIL MOUNTED ON EXISTING CULVERTS
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
701006-03	OFF-ROAD OPERATIONS
701201-03	LANE CLOSURE, 2 LANE, 2 WAY: DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-03	LANE CLOSURE, 2 LANE, 2 WAY: SHORT TIME OPERATIONS
701306-02	LANE CLOSURE, 2 LANE, 2 WAY: SLOW MOVING OPERATIONS DAY ONLY FOR SPEEDS ≥ 45 MPH
701311-03	LANE CLOSURE, 2 LANE, 2 WAY: MOVING OPERATIONS- DAY ONLY
701901-01	TRAFFIC CONTROL DEVICES
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS AND MARKERS)
780001-02	TYPICAL PAVEMENT MARKINGS
BLR 21-8	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 22-6	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**



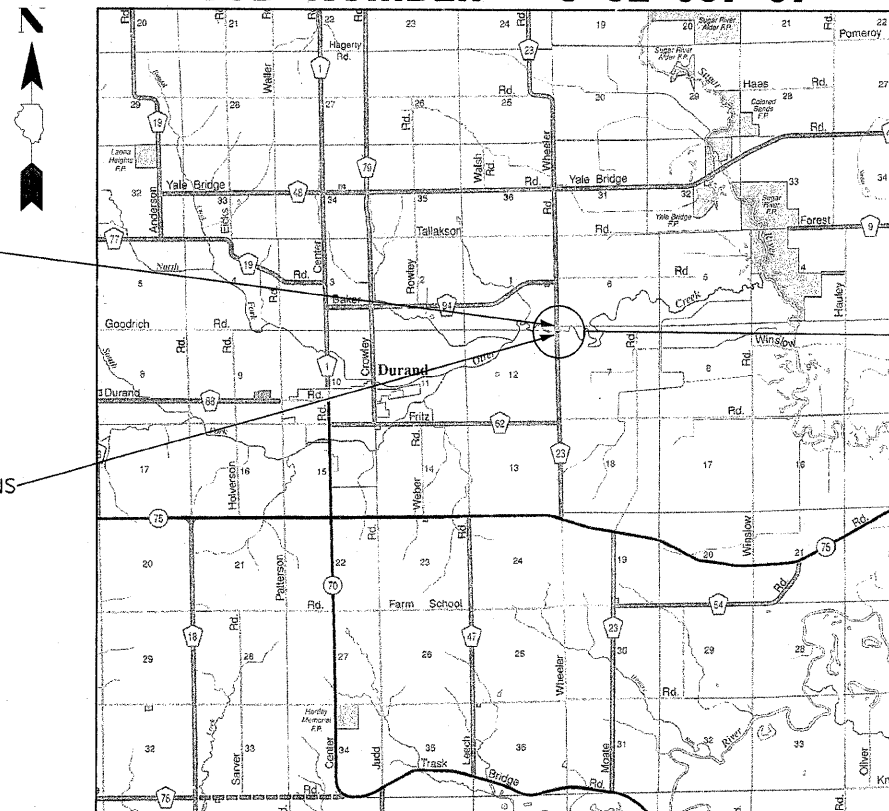
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

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

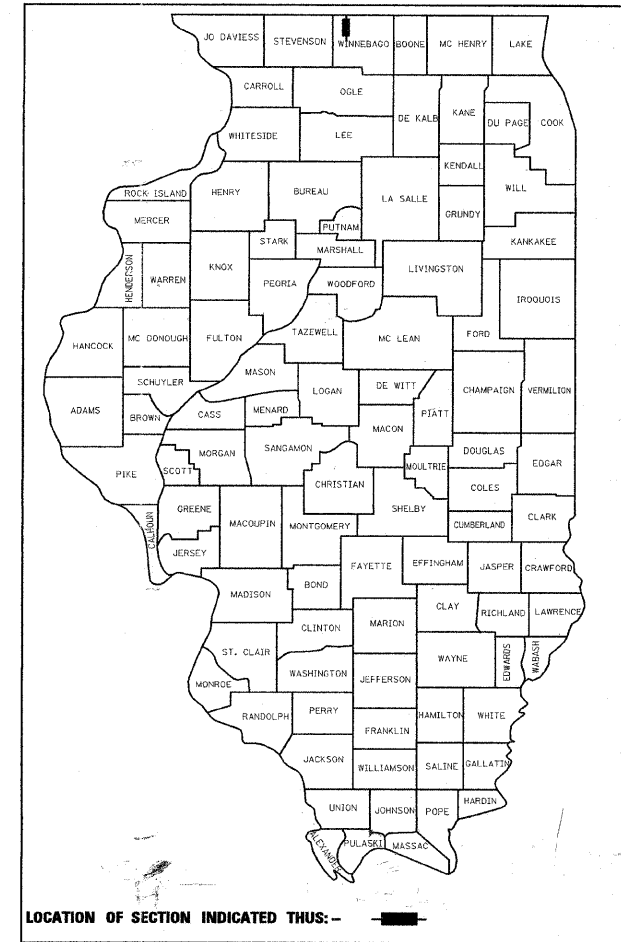
STRUCTURE NO. SN 101-3097  
 WINNEBAGO COUNTY  
 SECTION NO. 06-00414-00-BR  
 PROJECT BROS-201(23)  
 JOB NUMBER - C-92-067-07



IMPROVEMENT ENDS  
 STATION 16+67

IMPROVEMENT BEGINS  
 STATION 14+30

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



LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

Approved April 11, 2008  
*[Signature]*  
 Local Agency, Position

Passed April 22, 2008  
*[Signature]*  
 District Engineer of Local Roads & Streets

Releasing for Bid  
 Based on Limited  
 Review April 22, 2008  
*[Signature]*  
 Deputy Director of Highways, Regional Engineer

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

DICK M. TERBERG  
 PROFESSIONAL ENGINEER  
 062-059236/4-10-08  
 ROCKFORD, ILLINOIS  
 EXP. 11/30/09

HOMER L.  
**CHASTAIN & ASSOCIATES**  
 CONSULTING ENGINEERS

PHONE: 815-489-0050  
 FAX: 815-489-0055  
 LICENSE NO. 184.001397

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

**CONTRACT NO. 85433**

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:

DATE	BY
DATE	BY
DATE	BY
DATE	BY

SUMMARY OF QUANTITIES  
CONSTRUCTION TYPE CODE: X028-2A

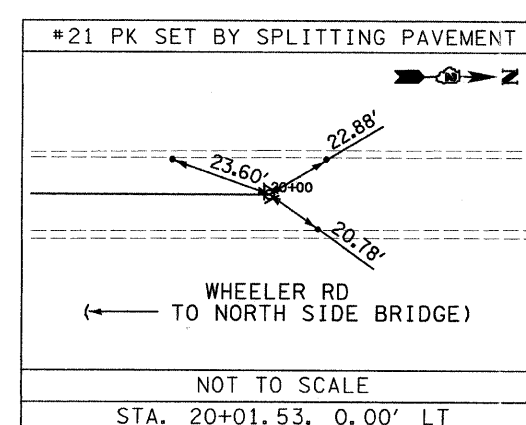
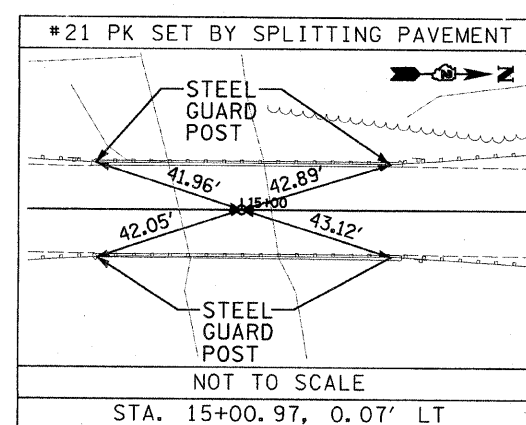
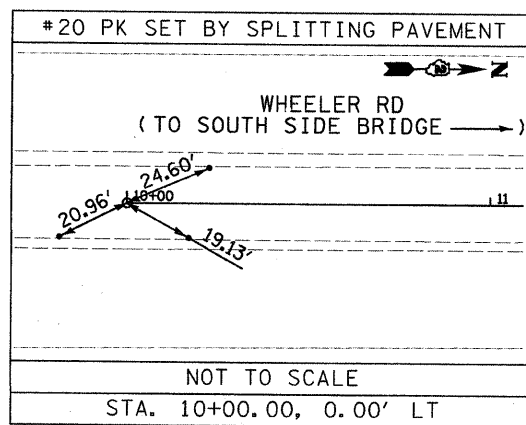
NUMBER	PAY ITEM DESCRIPTION	UNIT	QUANTITY
20200100	EARTH EXCAVATION	CU YD	257
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	671
25000210	SEEDING, CLASS 2A	ACRE	0.2
25100630	EROSION CONTROL BLANKET	SQ YD	670
28000400	PERIMETER EROSION BARRIER	FOOT	764
35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	615
40600100	BITUMINOUS PRIME COAT	GAL	542
40603060	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
50600205	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
70301000	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
X0013798	CONSTRUCTION LAYOUT	L SUM	1

\* SPECIALTY ITEMS

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	746.488	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



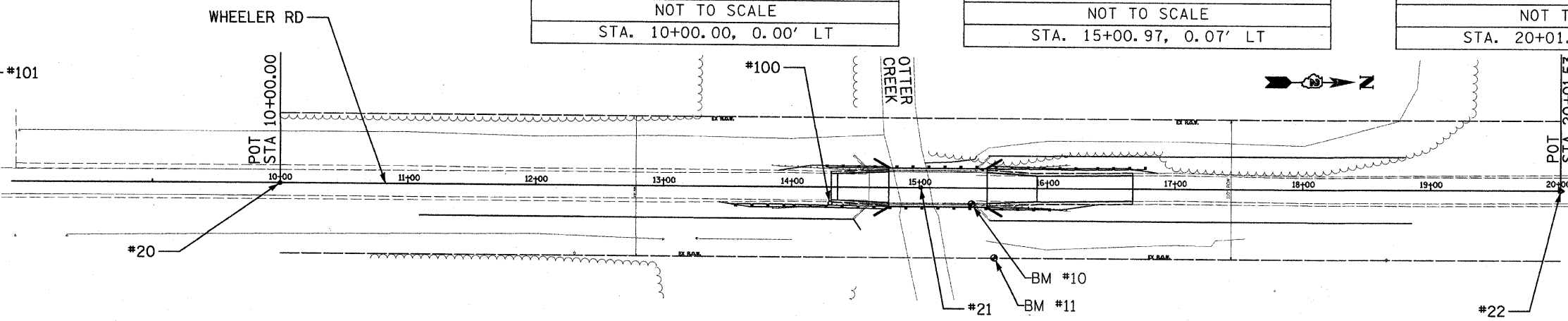
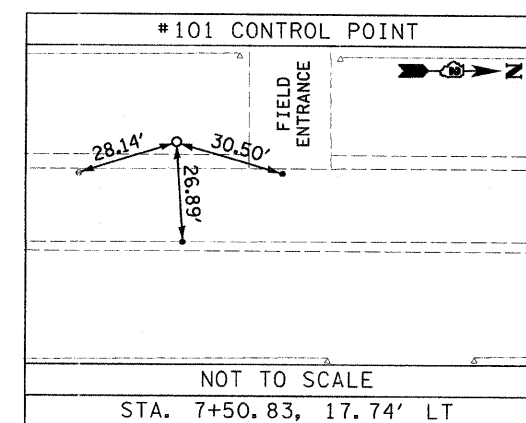
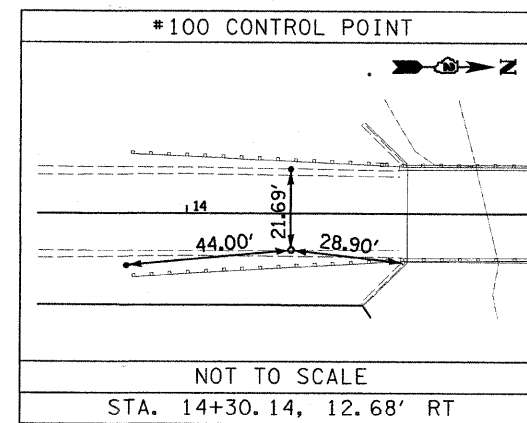
BITUMINOUS MIXTURE DESCRIPTION

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

EARTHWORK SCHEDULE

STATION	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		
	FT	CUT	CUT	CU YD	CU YD	SF (%)	15	FILL	FILL		CU YD
13+50.00	-	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	2.2	-0.5	-	
14+80.00	10.66	0.0	13.4	5.3	4.5	151.0	91.4	36.1	-31.6	-	
14+88.30	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	0.0	1.8	0.0	0.0	0.0	
15+42.00	-	248.8	124.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
15+50.00	7.02	240.8	243.7	63.6	54.1	0.0	0.0	0.0	54.1	-	
15+51.39	1.39	348.0	294.4	15.2	12.9	0.0	0.0	0.0	12.9	-	
15+55.00	3.61	71.9	210.0	28.1	23.9	3.8	1.9	0.3	23.6	-	
15+64.38	12.99	32.0	52.0	25.9	21.2	17.6	10.7	5.1	16.1	-	
16+00.00	45.00	37.7	34.9	58.1	49.4	0.6	9.1	15.2	34.2	-	
16+50.00	50.00	0.0	18.9	34.9	29.7	0.5	0.6	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		

EXISTING HORIZONTAL CONTROL



COMMITMENTS:  
THE ILLINOIS DEPARTMENT OF NATURAL RESOURCES HAS 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	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
23	06-00414-00-BR	WINNEBAGO	10	4
STA. 14+30		TO STA. 16+67		
EXISTING CONDITIONS:				

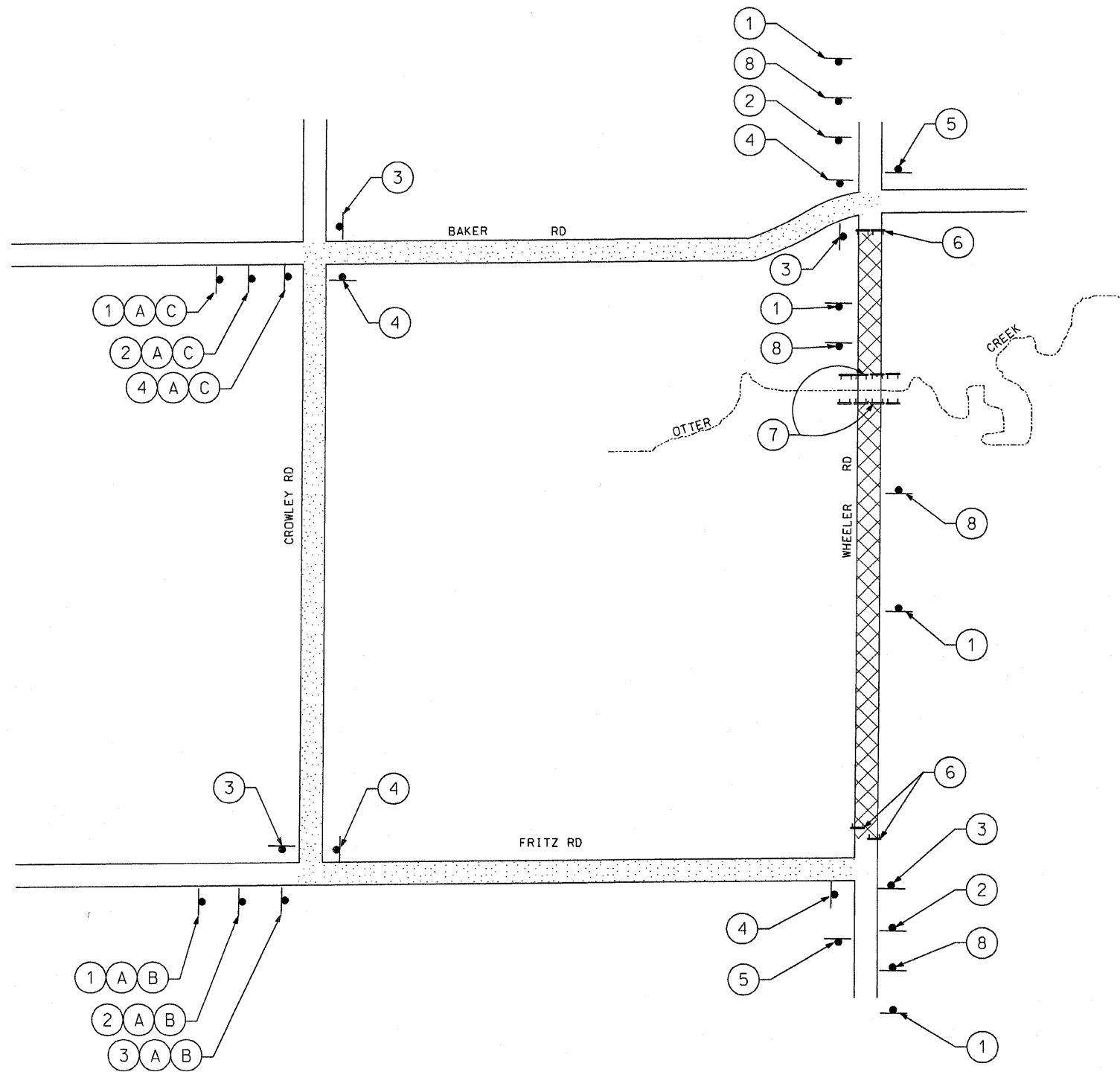
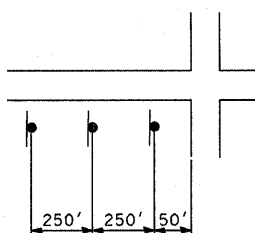
CONTRACT: 85433

- 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)



DATE	
BY	
DESIGNED	
PLANNED	
NOTED	
ALIGNED	
CHECKED	
NO.	
FILE NAME	

PLAN

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

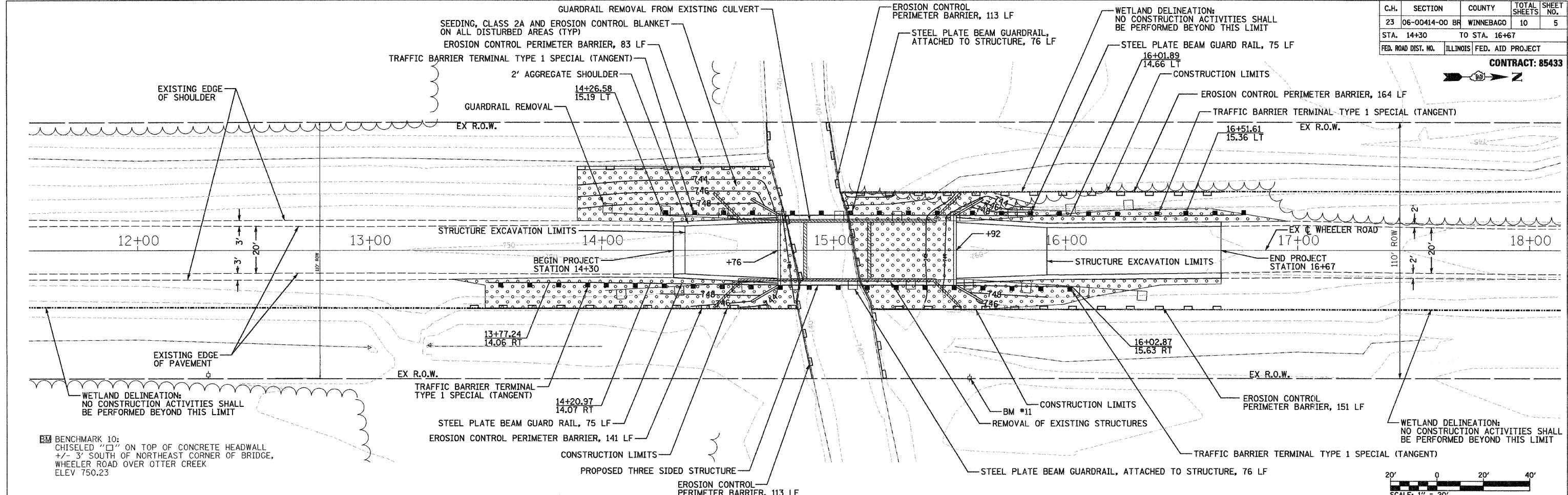
REVISIONS	
NAME	DATE

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

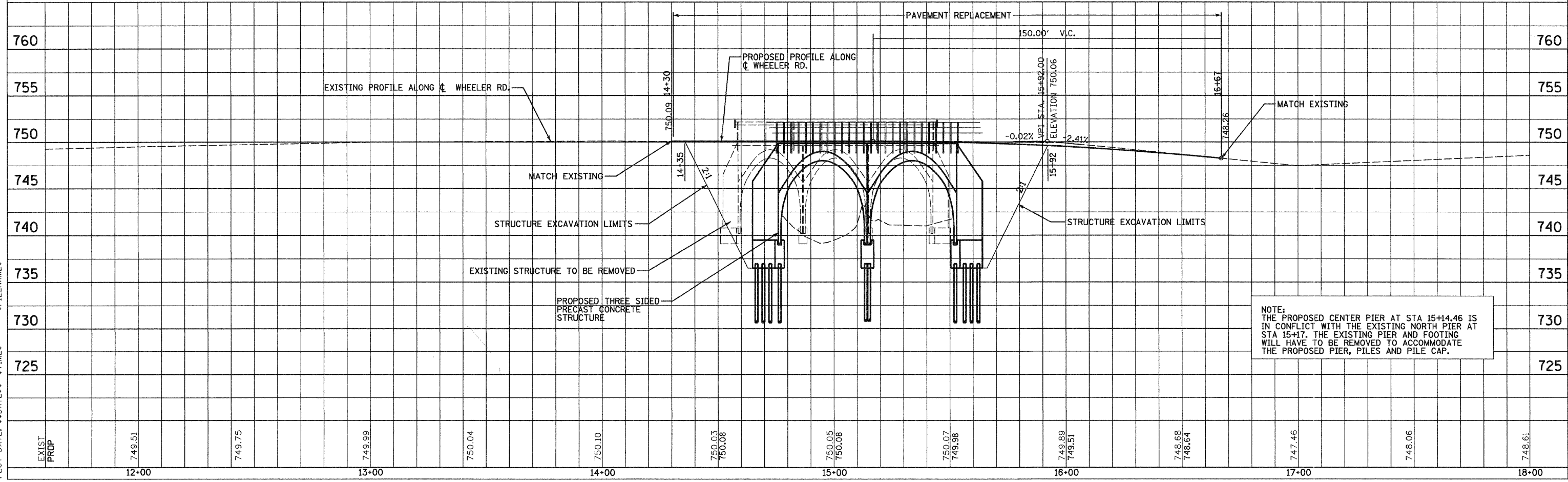
C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
23	06-00414-00 BR	WINNEBAGO	10	5
STA. 14+30		TO STA. 16+67		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT: 85433

PLAN	REVISIONS	DATE
NO.	NO.	
NO.	NO.	
NO.	NO.	



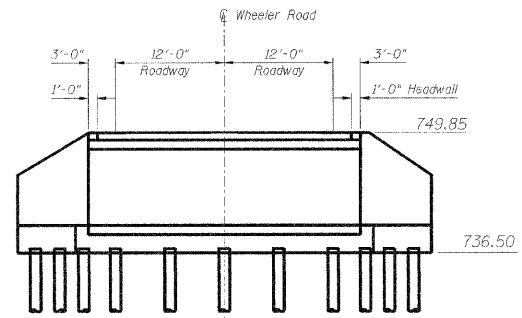
PROFILE	REVISIONS	DATE
NO.	NO.	
NO.	NO.	
NO.	NO.	



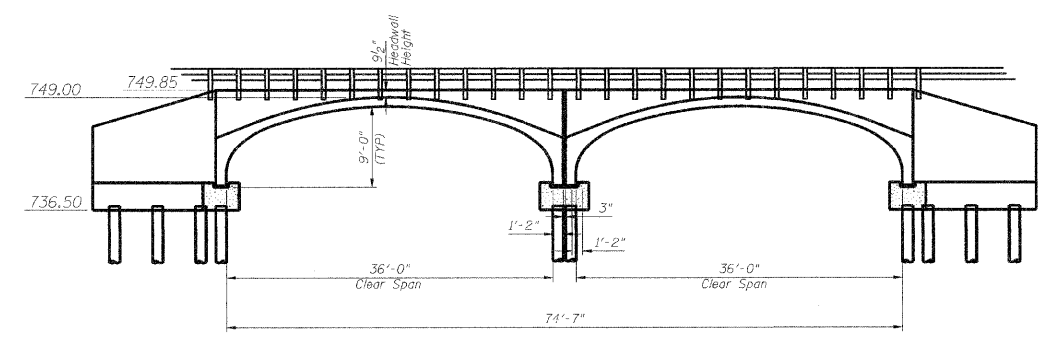
NOTE: THE PROPOSED CENTER PIER AT STA 15+14.46 IS IN CONFLICT WITH THE EXISTING NORTH PIER AT STA 15+17. THE EXISTING PIER AND FOOTING WILL HAVE TO BE REMOVED TO ACCOMMODATE THE PROPOSED PIER, PILES AND PILE CAP.

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

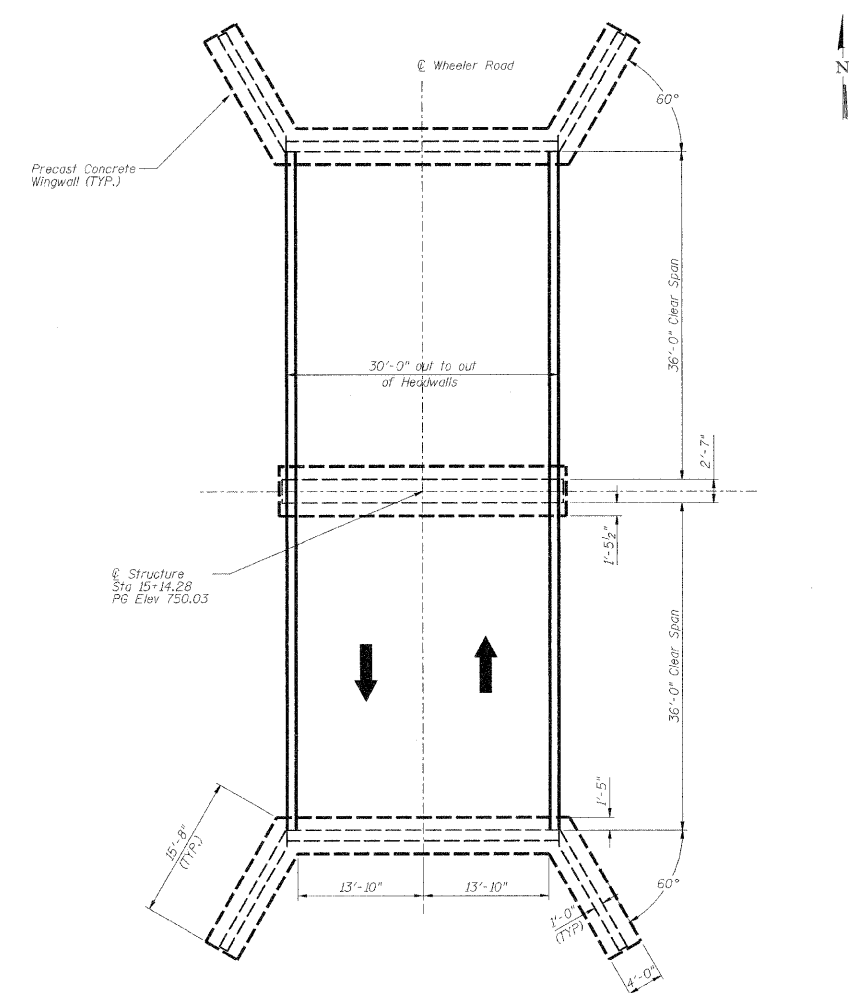
CAL.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
23	05-0001-00-08	WINNEBAGO	10	6
FED. ROAD DIST. NO.		ILL. NO.	PROJECT	



**LONGITUDINAL SECTION**  
Looking north at C 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**

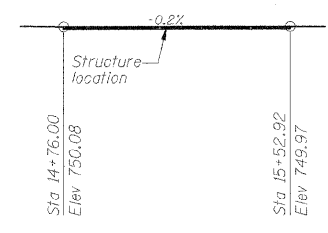
$f'_c = 5,000$  psi  
 $f_y = 60,000$  psi (reinforcement)  
 $f_y = 65,000$  psi (welded wire fabric)

**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**

**TOTAL BILL OF MATERIAL**

ITFM	UNIT	QUANTITY
Concrete Structures	Cu Yd	74.0
Reinforcement Bars, Epoxy Coated	Pound	3320
Three Sided Precast Concrete Structure 36' Span	Foot	60
Precast Concrete Substructure	L. 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**

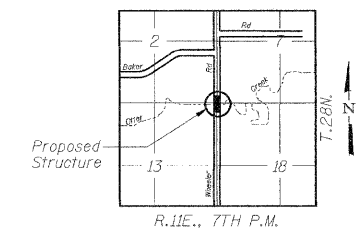
Drainage Area = 34.8 sq mi

Flood	Freq. Yr.	0 C.F.S.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Prop.	Headwater El. Prop.
Design	20	2641	377.8	746.57	0.37	746.94



*Thomas E. Spodyski* 4-10-08  
DATE: 4/30/08  
EXP 4/30/09

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**

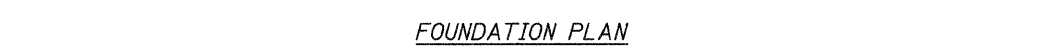
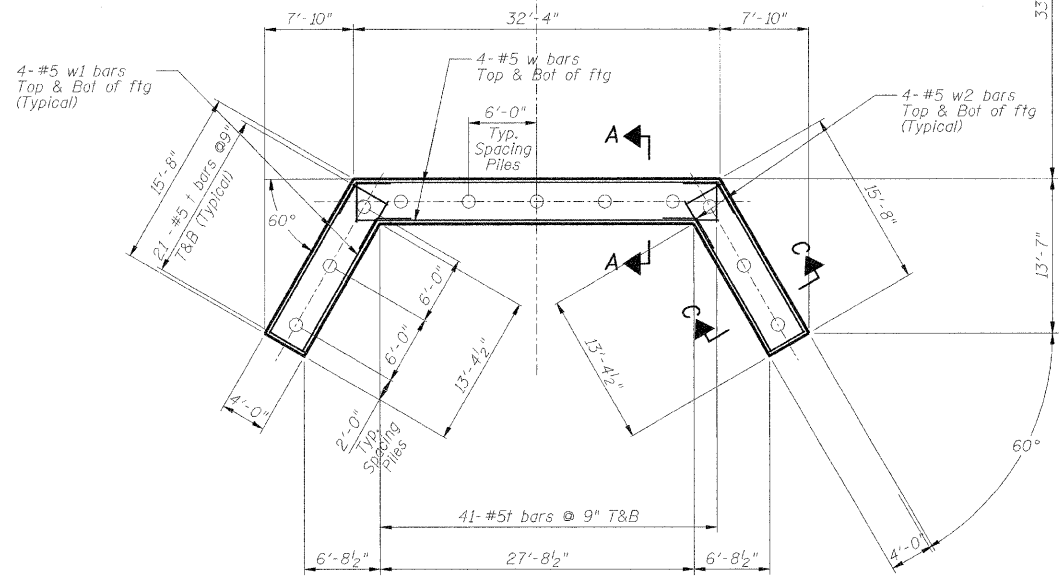
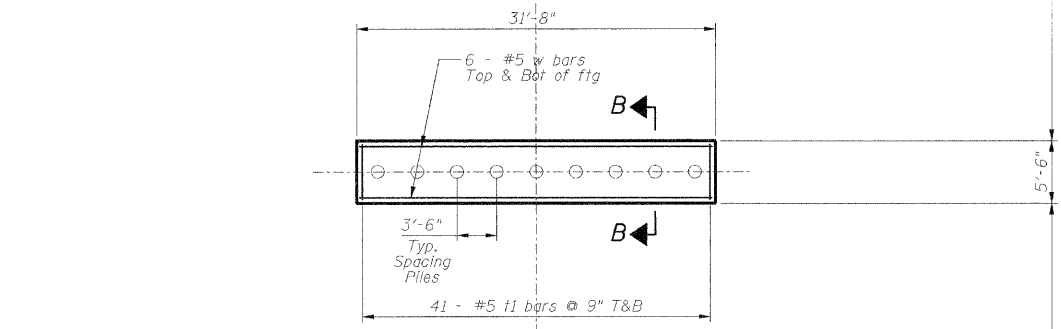
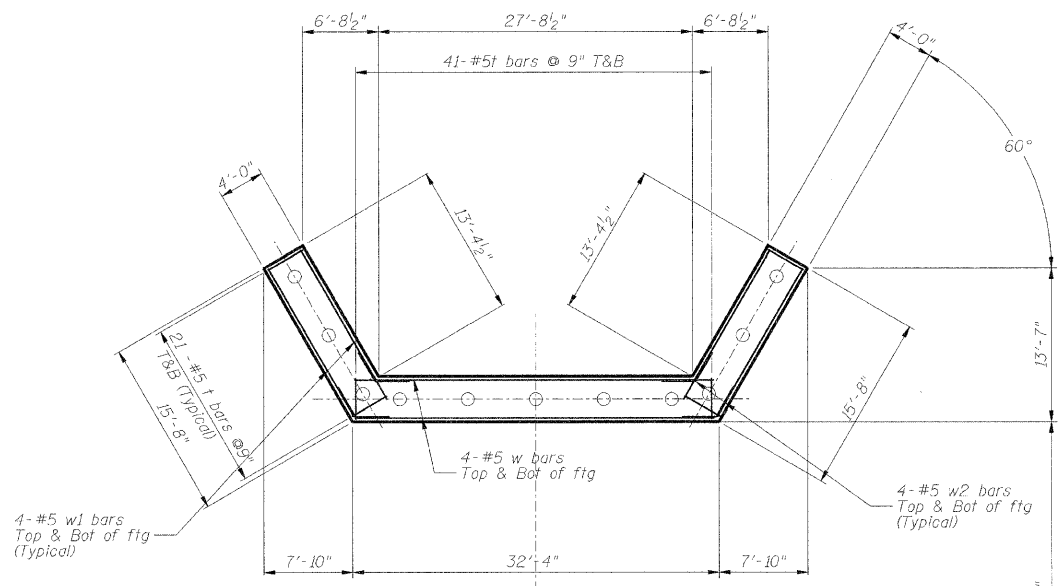
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**HOMER L. CHASTAIN & ASSOCIATES, LLP**  
CONSULTING ENGINEERS  
184-00197

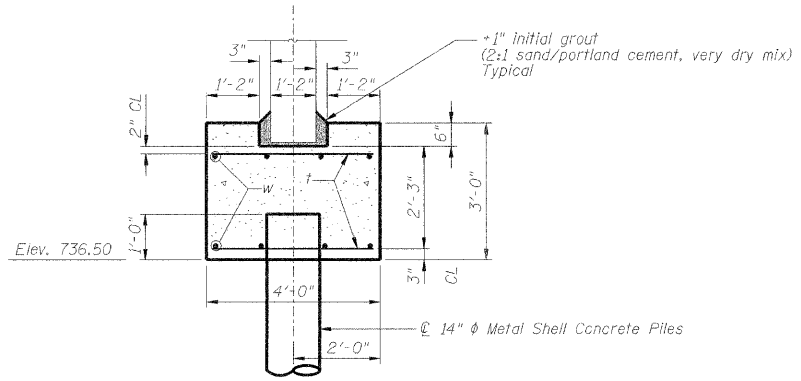
DECATUR CHICAGO  
 (317) 422-8544 (773) 714-0050  
 ROCKFORD  
 (815) 489-0050



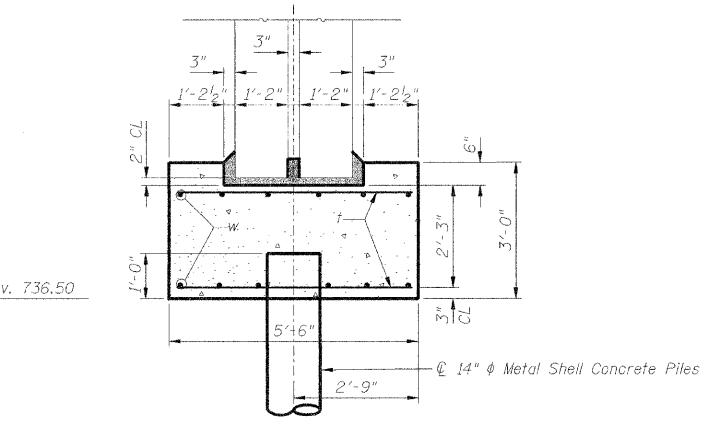
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FED. ROAD DIST. NO.		ILLINOIS	PROJECT	



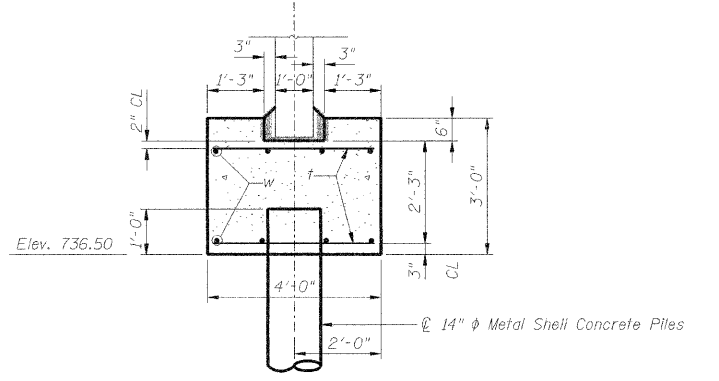
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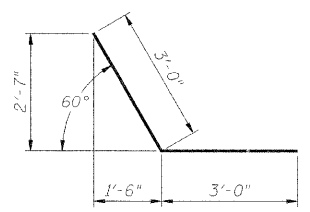
SECTION A-A



SECTION B-B



SECTION C-C



BAR w2

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

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
i	332	#5	3'-8"	—
i1	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 "Three Sided Precast Concrete Structure 36' Span."
- Precast units shall be constructed and installed in accordance with manufacturer's specifications.

FOOTING PLAN AND DETAILS

REVISIONS		WHEELER ROAD OVER OTTER CREEK		DRAWN BY DATE
No.	DATE	INITIALS	WINNEBAGO	DWN 08/07
1				CHECKED BY DATE
2				TS 08/07
3				BOOK NUMBER
4				PROJECT No.
5				5219
6				SHEET No.
7				
8				
9				
10				

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184-001397

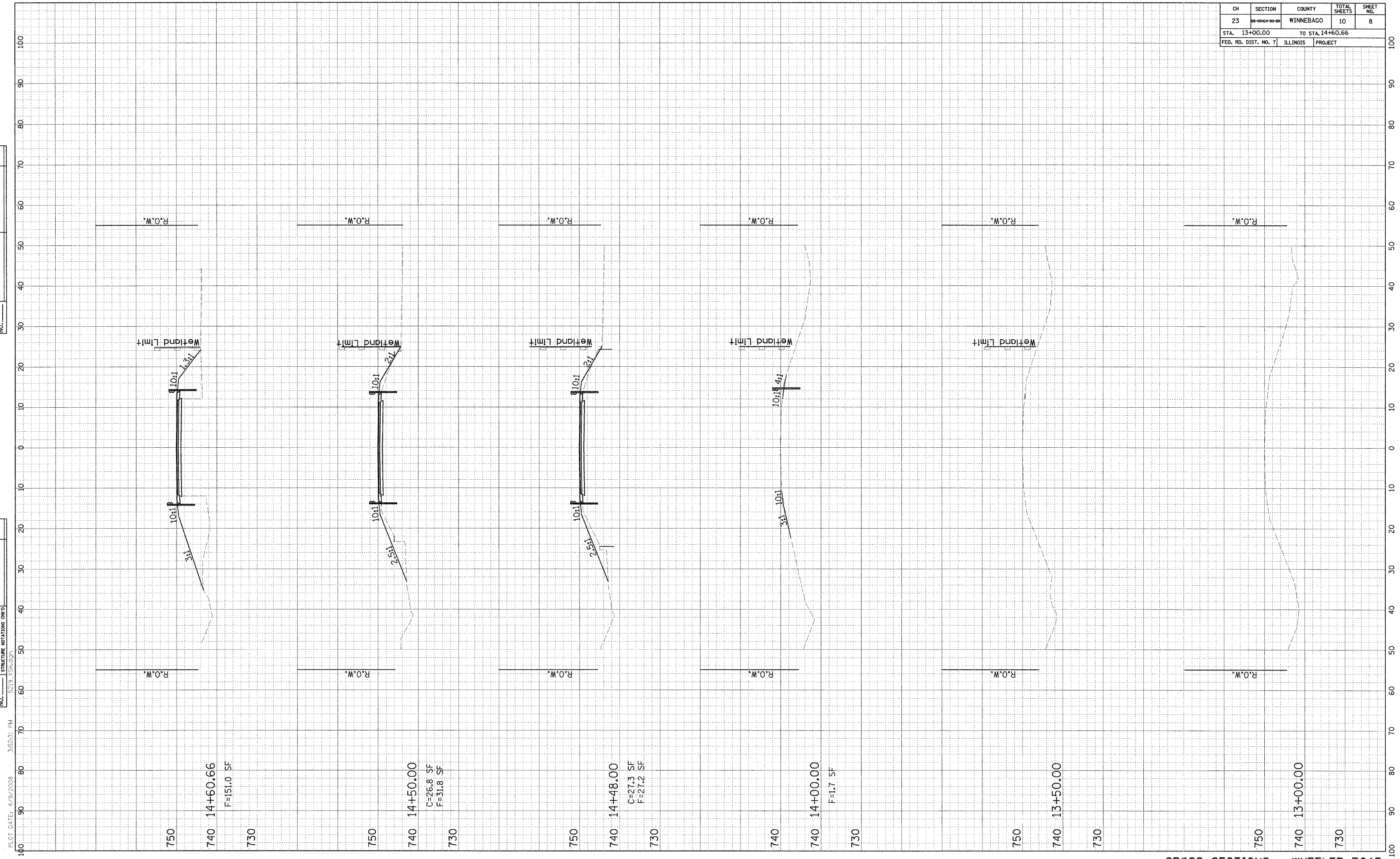
DECATUR CHICAGO  
(217) 422-8544 (773) 714-0050

ROCKFORD  
(815) 489-0050

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STA. 13+00.00		TO STA. 14+60.66		
FED. RD. DIST. NO. 7	ILLINOIS	PROJECT		

FINAL  
 SURVEYED  
 NOTEBOOK ALIGNMENT CHECKED  
 NO. RT. OF WAY CHECKED

ORIGINAL  
 SURVEYED  
 NOTEBOOK GRADES CHECKED  
 NO. BMS NOTED  
 STRUCTURE NOTATIONS CHD



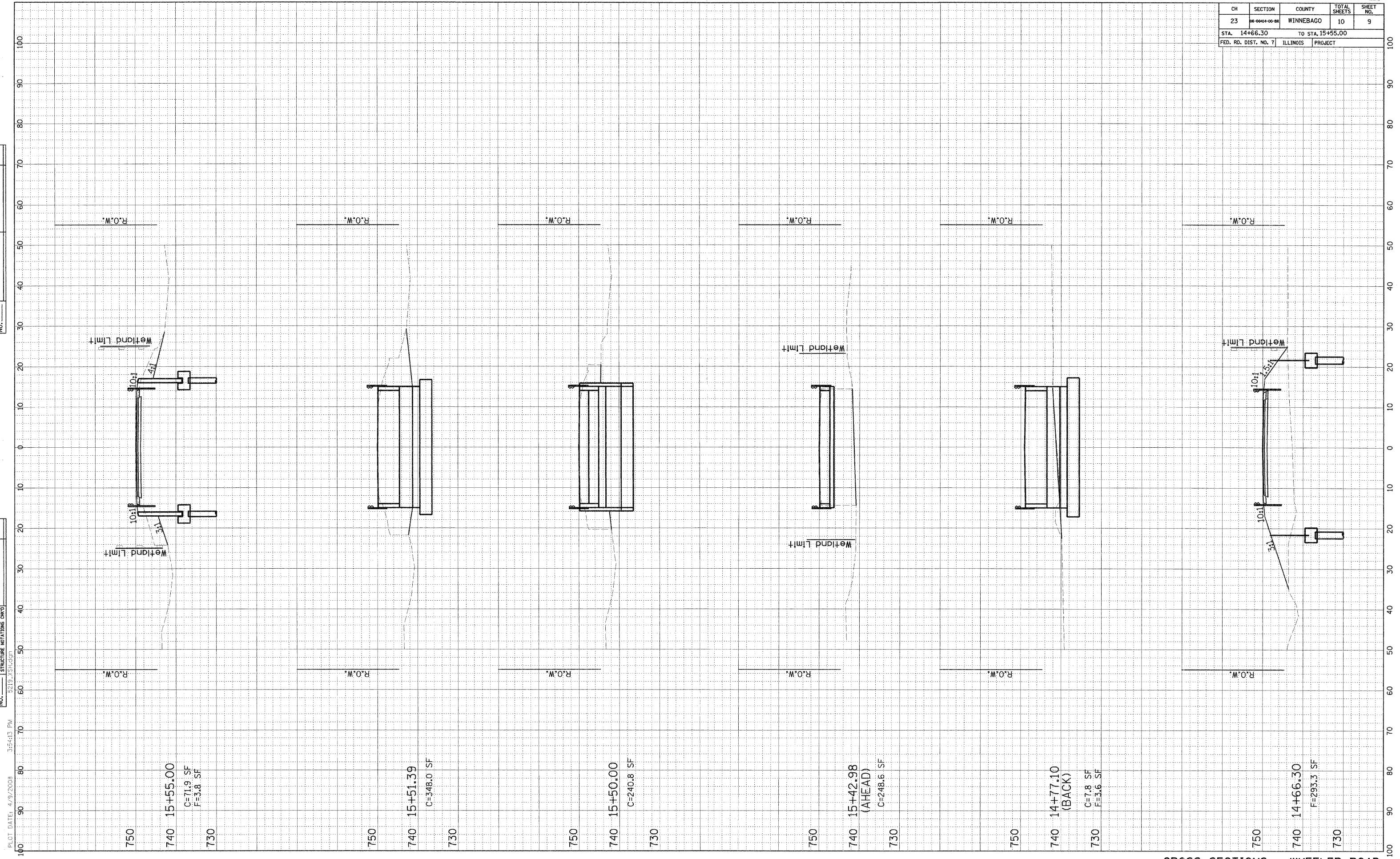
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FED. RD. DIST. NO. 7		ILLINOIS	PROJECT	

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ORIGINAL  
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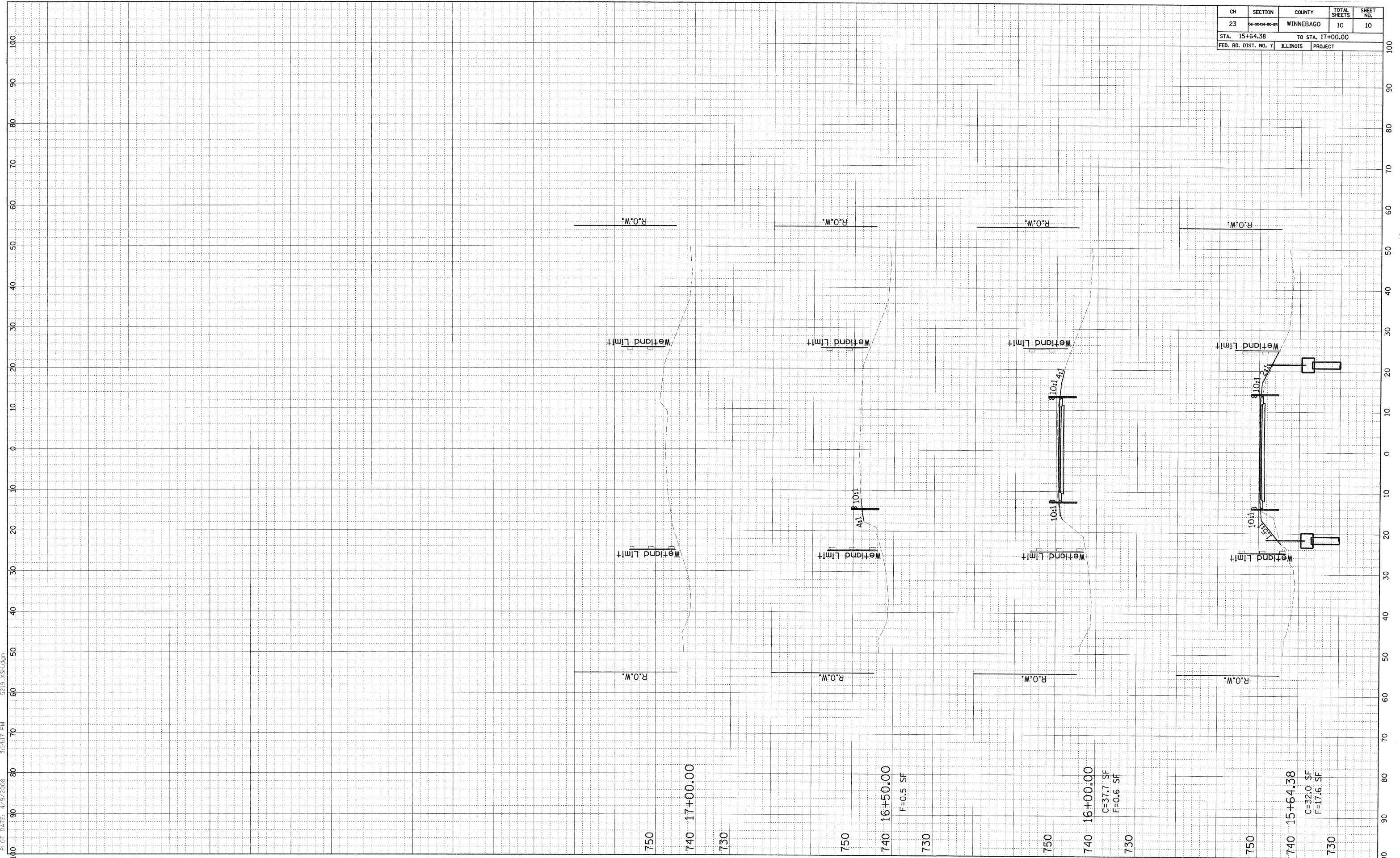
CROSS SECTIONS - WHEELER ROAD

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FED. RD. DIST. NO. 7		ILLINOIS	PROJECT	

FINAL	DATE
NO.	
BY	
CHECKED	
PLOTTED	
ALIGNMENT CHECKED	
RT. OF WAY CHECKED	

ORIGINAL	DATE
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BY	
CHECKED	
PLOTTED	
GRADES CHECKED	
BMS NOTED	
STRUCTURE NOTATIONS CHK'D	

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CROSS SECTIONS - WHEELER ROAD