

FOR INDEX OF SHEETS, SEE SHEET NO. 2

DESIGN DESIGNATION

900 (31) MAJOR COLLECTOR 3.81 (FD-20)

TRAFFIC DATA

FAP ROUTE 55 (IL-70)

2011 ADT = 3,850

2031 ADT = 8,975

9.8% TRUCKS; 2031 DHV: 900

POSTED SPEED LIMIT (40MPH)

PROJECT LOCATED IN:

VILLAGE OF DURAND

DURAND TOWNSHIP (SECTION 15)

WINNEBAGO COUNTY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

PROJECT RS-0055(105)

FAS ROUTE 55 (IL 70)

SECTION (W-1-15d)BR-1

IL. ROUTE 70 BRIDGE REPLACEMENT
AND ROADWAY RECONSTRUCTION
OVER SOUTH BRANCH OF OTTER CREEK
WINNEBAGO COUNTY

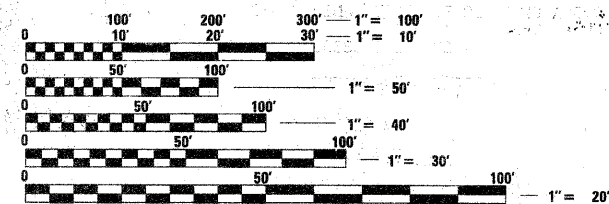
C-92-194-09

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(W-1-15d)BR-1	WINNEBAGO	59	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 64D22	

D-92-062-07



LOCATION OF SECTION INDICATED THUS: —



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

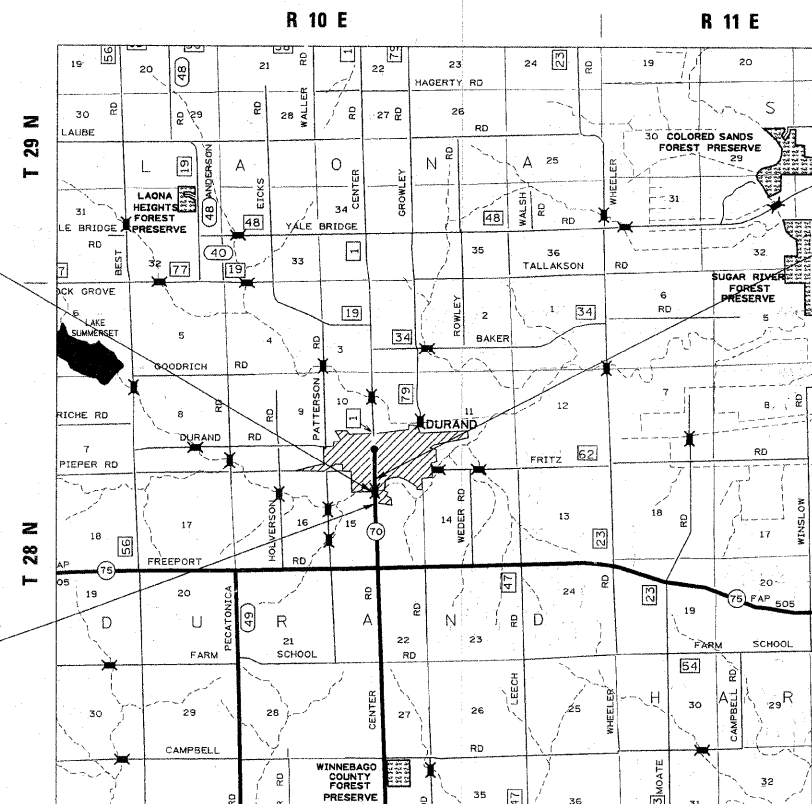
IDOT PROJECT MANAGER - MR. COREY CONDERMAN (815) 284-5936

HOH PROJECT MANAGER - MR. GERALD BERNER (312) 424-3650

CONTRACT NO. 64D22

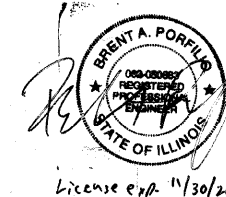
IL - 70 BRIDGE
OVER OTTER CREEK
STR. NO. 101-0086
REMOVAL AND REPLACEMENT OF
SUPERSTRUCTURE AND
ROADWAY RECONSTRUCTION

PROJECT ENDS
STA. 66 + 00



PROJECT BEGINS
STA. 57 + 65

FINAL
11-30-09



HOH	HARRY O. HEFTER-ASSOCIATES, INC. DESIGN AND CONSULTING ENGINEERS 55 East Jackson Blvd. Suite 600 Chicago, IL 60604 312-346-8131	PROJECT NUMBER 2944
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Dec. 4, 20 09

Chuan F. Poma
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Scott E. Stett P.E./RD
Acting ENGINEER OF DESIGN AND ENVIRONMENT

January 29, 2010
Christine M. Reed P.E./RD
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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

DISTRICT 2

SCALE: 1" = 1 MILE
LOCATION MAP

GROSS & NET LENGTH = 835 FT (0.158 MILES)

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	HIGHWAY STANDARDS

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
420001-07	PAVEMENT JOINTS
420401-08	BRIDGE APPROACH CONNECTOR
421001-02	BAR REINFORCEMENT FOR CRC PAVEMENT
515001-03	NAME PLATE FOR BRIDGES
542301-02	PRECAST REINFORCED CONCRETE FLARED END SECTION
542401-01	METAL END SECTIONS FOR PIPE CULVERT
601101-01	CONCRETE HEADWALL FOR PIPE DRAIN
602401-02	MANHOLE, TYPE A
604001-03	FRAME AND LIDS TYPE 1
606001-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-08	TRAFFIC BARRIER TERMINAL, TYPE 6
635001-01	DELINEATORS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701006-03	OFF-RD OPERATIONS, 2L, 2W, 4.5 m (15') TO 600 mm (24") FROM PAVEMENT EDGE
701011-02	OFF-RD OPERATIONS, 2L, 2W, DAY ONLY
701301-03	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
701321-10	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-03	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING FOR SPEEDS GREATER THAN OR EQUAL TO 45 MPH
701501-05	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701801-04	LANE CLOSURE, MULTI LANE, 1W, 2W, & CROSS WALK OR SW CLOSURE
701901-01	TRAFFIC CONTROL DEVICES
704001-06	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-02	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPE A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-02	TYPICAL PAVEMENT MARKINGS
781001-03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUTS FOR DETECTION LOOPS

COMMITMENTS

TWO OF THE EXISTING TREES ARE ORNAMENTAL CONIFERS NEAR A COMMERCIAL DRIVEWAY AT STA. 64+92 LT. CONSIDERATION SHOULD BE GIVEN TO SEEING WHAT THE PROPERTY OWNERS WANTS. THE PROPERTY OWNER IS:

MEDINA MANOR BLDG. INC.
C/O JOHS OKSNEVAD
3676 N. ALPINE RD.
ROCKFORD, IL. 61114

FILE NAME =	USER NAME = condermance	DESIGNED - AAE	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. ROUTE 70 OVER OTTER CREEK INDEX OF SHEETS, STATE STANDARDS, AND COMMITMENTS	SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A	F.A.P. RTE. 55 SECTION (W-1-15d)BB-1 COUNTY WINNEBAGO TOTAL SHEETS 59 SHEET NO. 2 CONTRACT NO. 64022	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT
C:\Documents and Settings\condermance\Local Settings\Temporary Internet Files\Content.I55\69\207.mxd	CRAWN\PURBYHID\AE	REVIEWED -						
PLOT SCALE = 28.0000' / 1" IN.	CHECKED - BAP	REVIEWED -						
PLOT DATE = Wed Dec 02 14:29:03 2009	DATE - Wed Dec 02 14:29:03 2009	REVIEWED -						

HOH

HARRY O. HIEFFER-ASSOCIATES, INC.
DESIGN AND CONSULTING ENGINEERS

55 East Jackson Blvd.
Suite 400
Chicago, IL 60604
312-565-8331

PROJECT
NUMBER
2944

GENERAL NOTES

SEE CROSS SECTIONS FOR SPECIAL DITCHES AND BACKSLOPES.

AT THE LOCATIONS WHERE EXCAVATION QUANTITIES ON THE PLANS ARE INDICATED AS HAVING BEEN ESTIMATED, THE ENGINEER WILL OBTAIN ORIGINAL AND FINAL CROSS SECTIONS TO DETERMINE PAY QUANTITIES.

THE REMOVAL OF BITUMINOUS SURFACING NOT ON A RIGID TYPE BASE REMOVED IN CONJUNCTION WITH THE BASE SHALL BE REMOVED AS EARTH EXCAVATION. THE REMOVAL OF BITUMINOUS SURFACING ON A RIGID TYPE BASE REMOVED IN CONJUNCTION WITH THE BASE SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR PAVEMENT REMOVAL OF THE TYPE SPECIFIED.

THE FINAL TOP 100 MM (FOUR INCHES) OF SOIL IN ANY RIGHT-OF-WAY AREA DISTURBED BY THE CONTRACTOR MUST BE CAPABLE OF SUPPORTING VEGETATION. THE SOIL MUST BE FROM THE A HORIZON (ZERO TO 2N DEEP) OF SOIL PROFILES OF LOCAL SOILS. THE CONTRACTOR MAY USE EXISTING TOPSOIL OR FURNISH AND PLACE TOPSOIL TO CONSTRUCT FINAL TOP 4" OF TOPSOIL AND SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

ALL BORROW/WASTE/USE SITES MUST BE APPROVED BY THE DEPARTMENT PRIOR TO REMOVING ANY MATERIAL FROM THE PROJECT OR INITIATING ANY EARTHMOVING ACTIVITIES, INCLUDING TEMPORARY STOCKPILING OUTSIDE THE LIMITS OF CONSTRUCTION

THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS. SEEDING CLASS 4 OR 2A SHALL BE USED, EXCEPT IN FRONT OF PROPERTIES WHERE THE GRASS WILL BE MOWED, THEN USE SEEDING, CLASS 1. CLASS 2A SHALL BE USED ON FRONT SLOPES AND DITCH BOTTOMS. CLASS 4 SHALL BE USED BEHIND TYPE A GUTTER, ON ALL BACKSLOPES AND AREAS BEHIND THE BACKSLOPE, AND BEYOND THE TOE OF FRONT SLOPE ON FILL SECTIONS WITHOUT DITCHES.

FERTILIZER NUTRIENTS SHALL BE APPLIED AT THE RATE SPECIFIED IN SECTIONS 250 AND 252 OF THE STANDARD SPECIFICATIONS. THIS SHALL BE INCLUDED IN THE COST OF THE SEEDING.

PREVIOUSLY PUGMILLED STOCKPILES OF "TYPE A" OLDER THAN 1 MONTH WILL NOT BE APPROVED FOR USE UNTIL A MOISTURE CHECK IS RUN TO VERIFY MOISTURE CONTENT. MATERIAL SHIPPED TO PROJECTS WITHOUT BEING TESTED WILL NOT BE ACCEPTED.

THE SUBGRADE ON THIS PROJECT, EXCLUSIVE OF ROCK CUT AREAS IS SCHEDULED TO BE IMPROVED TO A 600 MM (24") DEPTH ACCORDING TO MECHANISTIC PAVEMENT DESIGN. THE AREAS SCHEDULED TO BE IMPROVED TO A DEPTH GREATER THAN 600 MM (24") ARE ESTIMATED BASED ON THE ORIGINAL GEOTECHNICAL INVESTIGATION. THE SUBGRADE SHALL BE PROCESSED IN ACCORDANCE WITH ARTICLE 301.03 OF THE STANDARD SPECIFICATIONS. BEFORE THE ENGINEER SHALL DETERMINE THE LIMITS AND THE ADDITIONAL THICKNESS OF IMPROVEMENT REQUIRED, IF ANY. ANY ADDITIONAL UNDERCUTTING REQUIRED AFTER THIS EVALUATION SHALL BE PAID FOR AS EARTH EXCAVATION.

EXCEPT FOR THE TOP 75 MM (3"), ALL AGGREGATE BASES AND SUBBASES 300 MM (12") IN THICKNESS SHALL BE CONSTRUCTED OF AGGREGATE GRADATION CA-2. IF THE SPECIFIED THICKNESS EXCEEDS 300 MM (12"), THE BASES OR SUBBASES SHALL BE CONSTRUCTED OF TOPSIZE 150 MM (6") BREAKER-RUN CRUSHED STONE WITH 70% TO 90% BY WEIGHT, PASSING THE 4" SIEVE AND 15% TO 40% BY WEIGHT, PASSING THE 50 MM (2") SIZE SIEVE, EXCEPT FOR THE TOP 75 MM (3"). THE BREAKER-RUN CRUSHED STONE SHALL BE REASONABLY UNIFORMLY GRADED FROM COARSE TO FINE AND BE TAKEN FROM A QUARRY LEDGE CAPABLE OF PRODUCING CLASS "D" QUALITY AGGREGATE. THE TOP 75 MM (3") SHALL BE GRADATION CA-6 OR CA-10 REGARDLESS OF THICKNESS. THE WATER NECESSARY TO ACHIEVE COMPACTION IN ALL BUT THE TOP 75 MM (3") LAYER MAY BE ADDED AFTER THE SUBBASE OR BASE COURSE IS PLACED ON THE GRADE.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE TO THIS PROJECT:

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
MIXTURE USES	SURFACE COURSE, LANE	BINDER COURSE, LANE
PG	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL-9.5 OR 12.5	IL-19.0
FRICTION-AGGREGATE	MIX D	
20-YEAR ESAL	1.3	1.3

THE CONTRACTOR WILL BE REQUIRED TO FURNISH 140MM (5 1/2") HIGH BRASS STENCILS AS APPROVED BY THE ENGINEER AND INSTALL STATIONING AT 250' INTERVALS. STATIONING SHALL BE PLACED ON BOTH LANES OF 2-LANE HIGHWAYS AND ON THE OUTSIDE LANES IN BOTH DIRECTIONS ON 4-LANE HIGHWAYS. THE STATIONS SHALL BE PLACED 150MM (6") INSIDE THE PAVEMENT MARKING EDGE SO THEY CAN BE READ FROM THE SHOULDER. THIS WORK WILL BE INCLUDED IN THE COST OF THE FINAL PAVEMENT SURFACE.

THE EXISTING HOT-MIX ASPHALT ON PRIVATE AND COMMERCIAL ENTRANCES SHALL BE BLADED OFF OR MILLED AND DISPOSED OF OUTSIDE THE PROJECT LIMITS. THIS COULD BE THE ENTIRE ENTRANCE OR TAPERED AT THE END DEPENDING ON IF THE MAINLINE IS RESURFACED OR MILLED AND RESURFACED. THE COST OF THE BLADING, MILLING, ROLLING, AND DISPOSAL IS INCLUDED IN THE CONTRACT UNIT PRICE FOR INCIDENTAL HOT-MIX ASPHALT SURFACING.

THE AREA TO BE PRIMED SHALL BE LIMITED TO THAT WHICH CAN BE COVERED WITH HMA THE SAME DAY, UNLESS OTHERWISE PERMITTED BY THE ENGINEER.

BITUMINOUS AND AGGREGATE PRIME COAT SHALL BE PLACED IN ACCORDANCE WITH SECTION 406 OF THE STANDARD SPECIFICATIONS. THE COST OF THE PRIME COATS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER METRIC TON (TON) FOR BINDER COURSE AND INCIDENTAL HMA SURFACING OF THE TYPE SPECIFIED.

THE NEW NUMBER FOR THIS STRUCTURE WILL BE 101-0191.

THE THICKNESS FOR THE BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE) ADJACENT TO EXISTING PAVEMENT SHALL BE A MINIMUM OF 300 MM (12"). THE MATERIAL SHALL BE 50 MM (2") HOT-MIX ASPHALT SURFACE COURSE, AND THE REMAINING THICKNESS SHALL BE HOT-MIX ASPHALT BINDER COURSE.

REFLECTOR MARKERS TYPE B SHALL BE INSTALLED ON THE TOP OF BRIDGE PARAPET WALLS. THE MARKERS SHALL BE ACCORDING TO STANDARD 635011 AND THE COLOR AND SPACING ACCORDING TO STANDARD 635006, EXCEPT THE MINIMUM IS 2 PER SIDE.

CULVERT & BRIDGE FLOWS MUST BE MAINTAINED THROUGHOUT THE PROJECT. NORMAL FLOW SHALL BE ALLOWED TO PASS AT THE RATE IT ENTERS THE JOBSITE. HIGH FLOWS SHALL BE ALLOWED TO PASS WITHOUT CAUSING DAMAGE TO UPSTREAM PROPERTIES.

THE CONTRACTOR SHALL REMOVE ALL ENTRANCE CULVERTS IN CONDITION FOR REUSE WHICH ARE NOT TO BE LEFT IN PLACE. THEY SHALL BE CLEANED AND STORED ALONG THE RIGHT OF WAY AS DIRECTED. IN NO CASE SHALL THEY BE ROUGHLY HANDLED OR SHOVED BY HEAVY MACHINERY. UNUSABLE MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS EXPENSE. COST OF THE WORK TO BE INCLUDED IN THE CONTRACT UNIT PRICE FOR EARTH EXCAVATION.

CONNECTING BANDS FOR CORRUGATED METAL PIPES SHALL BE METAL AND SHALL BE COATED WITH THE SAME MATERIAL AS THE PIPE SECTIONS. THE CONNECTING BANDS SHALL BE A MINIMUM OF 18" WIDE.

THE COST OF REMOVING EXISTING STORM SEWER DURING THE INSTALLATION OF NEW STORM SEWERS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE STORM SEWER BEING INSTALLED.

THE NEW MANHOLE LIDS ON THIS PROJECT SHALL HAVE THE WORD "STORM", "SANITARY", OR "WATER" ON THE LID. THE WORD TO BE USED IS NOTED ON THE PLANS. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE WORD TO BE USED ON OTHER LIDS NOT NOTED ON THE PLANS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THIS WORK.

IF, DURING THE PAVING OPERATIONS, THE EXISTING MAILBOXES BECOME A HINDRANCE, THE CONTRACTOR SHALL BE REQUIRED TO CAREFULLY REMOVE AND REINSTALL THE MAILBOXES AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE INCIDENTAL HOT MIX ASPHALT SURFACING.

EMBANKMENT QUANTITIES FOR THE CONSTRUCTION OF THE TRAFFIC BARRIER TERMINALS AS SHOWN IN THE PLANS ARE INCLUDED IN QUANTITIES FOR EARTH EXCAVATION.

THE CONTRACTOR SHALL SUPPLY THE RESIDENT ENGINEER WITH THE MANUFACTURER'S INSTALLATION REQUIREMENTS FOR THE TYPE OF STEEL PLATE BEAM GUARDRAIL TERMINAL TYPE 1 SPECIAL (TANGENT) OR STEEL PLATE BEAM GUARDRAIL TERMINAL TYPE 1 SPECIAL (FLARED).

ONE 160 GALVANIZED NAIL SHALL BE USED TO TOE NAIL THE WOOD BLOCK OUT TO THE WOOD POST ON ALL TRAFFIC BARRIER TERMINAL TYPE 1 SPECIALS.

DELINEATORS SHALL BE INSTALLED AS SHOWN IN STANDARD 635001, EXCEPT THAT THE POST SHALL BE ROTATED 180° AND ONLY METAL-BACKED DELINEATORS SHALL BE PERMITTED.

DELINEATORS SHALL BE PLACED AT THE ENDS OF APPROACH GUARDRAIL TERMINAL SECTIONS, AND AT EACH HEADWALL OR END SECTION OF AR CULVERTS. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR DELINEATORS.

PAVEMENT MARKING SHALL BE DONE ACCORDING TO STANDARD 780001, EXCEPT AS FOLLOWS:

1. ALL WORDS, SUCH AS ONLY, SHALL BE 2.4 M (8 FEET) HIGH.
2. ALL NON-FREEWAY ARROWS SHALL BE THE LARGE SIZE.
3. THE DISTANCE BETWEEN YELLOW NO-PASSING LINES SHALL BE 200 MM (8"), NOT 180MM (7") AS SHOWN IN THE DETAIL OF TYPICAL LANE AND EDGE LINES.

PERMANENT SURVEY MARKERS, TYPE II, SHALL BE SET AT THE FOLLOWING LOCATIONS:

1. NORTH SIDE OF BRIDGE.
2. ON BRIDGE
3. SOUTH SIDE OF BRIDGE.

PERMANENT SURVEY MARKERS, TYPE II SHALL BE CAST-IN-PLACE AS SHOWN ON DISTRICT STANDARD 66.2. THE BOTTOM OF THE MARKER SHALL BE 5*-0* BELOW THE GROUND SURFACE.

THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A DESCRIPTION OF LOCATION, ELEVATION, AND COORDINATES FOR EACH PERMANENT SURVEY MARKER. THE ENGINEER SHALL SUBMIT THIS INFORMATION TO THE SURVEY CREW.

THE TEMPORARY CONCRETE BARRIER SHALL BE ANCHORED TO THE PAVEMENT WITH 6 ANCHORS PER SECTION FROM STA. 57+62.5 TO STA. 66+00.

TREE PLANTING LAYOUT SHALL BE PERFORMED BY THE DISTRICT LANDSCAPE ARCHITECT. MULCH SHALL BE PLACED 4" THICK AND TO THE DIAMETER AROUND THE TREE AS SHOWN ON DISTRICT STANDARD 92.1. THE MULCH SHALL BE HARDWOOD WOOD CHIPS PLACED ON WEED-BARRIER FABRIC. THIS WORK SHALL BE INCLUDED IN THE COST OF THE TREE.

WORK ON THIS PROJECT WILL BE IN PROGRESS AT THE SAME TIME AS WORK ON THE IL 70 / IL 75 PROJECT. WORK ON THESE PROJECTS SHALL BE SCHEDULED TO KEEP INTERFERENCE BETWEEN ALL THE PROJECTS TO A MINIMUM. THE CONTRACTORS SHALL INFORM EACH OTHER OF PROGRESS OF THE PROJECTS AND GIVE FAIR WARNING TO THE OTHER CONTRACTORS WHEN A PROBLEM MIGHT BE ENCOUNTERED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123. THE FOLLOWING LISTED UTILITIES LOCATED WITHIN THE PROJECT LIMITS OR IMMEDIATELY ADJACENT TO THE PROJECT CONSTRUCTION LIMITS ARE MEMBERS OF JULIE:

COMMONWEALTH EDISON - MR. MIKE LENOX	(815) 490-2869
VERIZON - MR. KALIN HINSHAW	(815) 895-1515
NICOR GAS CO. - MS. CONSTANCE LANE	(630) 983-8676
MEDIA.COM - MR. MATT FORGAS	(630) 365-0045
VILLAGE OF DURAND (WATER & SEWER) - MR. MIKE SWEET	(815) 248-2201

THE APPLICABLE PORTIONS OF ARTICLE 105.07 OF THE STANDARD SPECIFICATION SHALL APPLY EXCEPT FOR THE FOLLOWING: THE CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE THE VERTICAL DEPTHS OF THE UNDERGROUND UTILITIES WHICH MAY INTERFERE WITH CONSTRUCTION OPERATIONS. THIS WORK WILL NOT BE MEASURED OR PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICE FOR THE ITEM OF CONSTRUCTION INVOLVED.

PER SB 699 (90 DAY UTILITY RELOCATION LAW), ONCE RIGHT-OF-WAY IS CLEAR TO AWARD THE PROJECT, A NOTICE WILL BE SENT TO THE UTILITY COMPANIES INSTRUCTING THEM TO HAVE THEIR FACILITIES RELOCATED WITHIN 90 DAYS. ESTIMATED DATE RELOCATION COMPLETE = LETTING DATE + 135 DAYS.

CADD DATA WILL BE AVAILABLE TO CONTRACTORS AND CONSULTANTS WORKING ON THIS PROJECT. THIS INFORMATION WILL BE PROVIDED UPON REQUEST AS MICROSTATION CADD FILES AND GEOPAK COORDINATE GEOMETRY FILES ONLY. IF DATA IS REQUIRED IN OTHER FORMATS IT WILL BE YOUR RESPONSIBILITY TO MAKE THESE CONVERSIONS. IF ANY DISCREPANCY OR INCONSISTENCY ARISES BETWEEN THE ELECTRONIC DATA AND THE INFORMATION ON THE HARD COPY, THE INFORMATION ON THE HARD COPY SHOULD BE USED. CONTACT THE DISTRICT'S PROJECT ENGINEER TO REQUEST THESE FILES.

THE CONTRACTOR SHALL SUBMIT A DEMOLITION PLAN TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.

ALL TREES REMOVED FROM THE PROJECT AREA (3 TREES, MAX.) FOR CONSTRUCTION OR MAINTENANCE PURPOSES WILL BE REPLACED WITH DECIDUOUS TREE SPECIES WHICH ARE NATIVE TO THE DISTRICT 2 AREA. TREES WILL BE REPLACED ACCORDING TO IDOT DEPARTMENTAL POLICY D&E-18 (SEPTEMBER 18, 2002). THE LOCATION OF THE REPLACEMENT TREES SHALL BE DETERMINED BY DISTRICT 2 LANDSCAPE ARCHITECT.

FILE NAME = H:\Projects\2944\06NS\206207GEN.dgn	USER NAME = \$USER\$	DESIGNED - AAF	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 70 OVER OTTER CREEK GENERAL NOTES				F.A.P RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.		PROJECT NUMBER 2944
	PLOT SCALE = 1/20,000" = 1" IN.	DRAWN - AAF	REVISED -						55 (W-1-15)BR-1 WINNEBAGO 59 3		
	PLOT DATE = 11/30/2009	CHECKED - BAP	REVISED -						CONTRACT NO. 64D22		
	DATE - 11/30/2009	REVISED -									
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT						

SUMMARY OF QUANTITIES			TOTAL QUANTITY	ROADWAY QUANTITY 80% FEDERAL 20% STATE	BRIDGE QUANTITY 80% FEDERAL 20% STATE
CODE	ITEM	UNIT		I000	X020-2A
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	24	24	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	18	18	
20200100	EARTH EXCAVATION	CU YD	2,200	2,200	
20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	50		50
* 25000100	SEEDING, CLASS 1	ACRE	0.25	0.25	
* 25000210	SEEDING, CLASS 2A	ACRE	0.75	0.75	
* 25000310	SEEDING, CLASS 4	ACRE	0.75	0.75	
* 25000750	MOWING	ACRE	1.5	1.50	
* 25100115	MULCH, METHOD 2	ACRE	0.50	0.50	
* 25100630	EROSION CONTROL BLANKET	SQ YD	4,647	4,647	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	552	552	
28000305	TEMPORARY DITCH CHECKS	FOOT	105	105	
28000400	PERIMETER EROSION BARRIER	FOOT	718	718	
28000500	INLET AND PIPE PROTECTION	EACH	3	3	
28100109	STONE RIPRAP, CLASS A5	SQ YD	712		712
28200200	FILTER FABRIC	SQ YD	712		712
31100965	SUB-BASE GRANULAR MATERIAL, TYPE A 24"	SQ YD	2,528	2,528	
35101400	AGGREGATE BASE COURSE, TYPE B	TON	93	93	
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	273	273	
40600990	TEMPORARY RAMP	SQ YD	874	874	
40603080	HOT-MIX ASPHALT BINDER COURSE IL-19.0, N50	TON	1,144	1,144	
40603335	HOT-MIX ASPHALT SURFACE COURSE MIX "D", N50	TON	230	230	
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	22	22	
42001300	PROTECTIVE COAT	SQ YD	678	678	
42300300	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH	SQ YD	254	254	

SUMMARY OF QUANTITIES			TOTAL QUANTITY	ROADWAY QUANTITY 80% FEDERAL 20% STATE	BRIDGE QUANTITY 80% FEDERAL 20% STATE
CODE	ITEM	UNIT		I000	X020-2A
44000100	PAVEMENT REMOVAL	SQ YD	2,176	2,176	
44000600	SIDEWALK REMOVAL	SQ FT	62	62	
48100100	AGGREGATE SHOULDERS, TYPE A	TON	36	36	
50105200	REMOVE EXISTING CULVERTS	EACH	1	1	
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1		1
50200100	STRUCTURE EXCAVATION	CU YD	65		65
50300100	FLOOR DRAINS	EACH	8		8
50300225	CONCRETE STRUCTURES	CU YD	97.4		97.4
50300255	CONCRETE SUPERSTRUCTURE	CU YD	285.5		285.5
50300260	BRIDGE DECK GROOVING	SQ YD	534		534
50300280	CONCRETE ENCASEMENT	CU YD	8.7		8.7
50300300	PROTECTIVE COAT	SQ YD	755		755
50800515	BAR SPLICERS	EACH	396		396
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	81,240		81,240
50901720	BICYCLE RAILING	FOOT	128		128
50901750	PARAPET RAILING	FOOT	128		128
51201600	FURNISHING STEEL PILES HP12X53	FOOT	1,508		1,508
51202305	DRIVING PILES	FOOT	1,508		1,508
51203600	TEST PILE STEEL HP12X53	EACH	2		2
51205200	TEMPORARY SHEET PILING	SQ FT	496		496
51500100	NAME PLATES	EACH	1		1
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	158	158	
54213453	END SECTIONS 18"	EACH	4	4	
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	5	5	
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	1	1	

† NON-PARTICIPATING
* SPECIALTY ITEMS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 70 OVER OTTER CREEK
SUMMARY OF QUANTITIES

F.A.P. RTE.		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55		(W-1-15)BR-1	WINNEBAGO	59	4
CONTRACT NO. 64D22					
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT					

FILE NAME =	USER NAME = condermanca	DESIGNED - AAF	REVISED -
C:\Documents and Settings\condermanca\Local Settings\Temporary Internet Files\Content.IE5\...DRAWING\PURB\H10\AF207.ssq (2)vdgn		CHECKED - BAP	REVISED -
	PLOT SCALE = 20.0000' / 1"	DATE - Wed Dec 02 14:27:36 2009	REVISED -

SUMMARY OF QUANTITIES			TOTAL QUANTITY	ROADWAY QUANTITY 80% FEDERAL 20% STATE	BRIDGE QUANTITY 80% FEDERAL 20% STATE
CODE	ITEM	UNIT		I000	X020-2A
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	179	179	
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	55	55	
56109210	WATER VALVES TO BE ADJUSTED	EACH	2	2	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	81		81
60107600	PIPE UNDERDRAINS 4"	FOOT	60	60	
60109580	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	150		150
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1	
60242400	INLETS, SPECIAL	EACH	2	2	
60242801	INLETS, SPECIAL, NO. 5	EACH	4	4	
60255500	MANHOLES TO BE ADJUSTED	EACH	2	2	
60600095	CLASS SI CONCRETE (OUTLET)	CU YD	5.0	5.0	
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	1,404	1,404	
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	395	395	
63300705	RUB RAIL	FOOT	192	192	
63500105	DELINEATORS	EACH	8	8	
66411900	TEMPORARY FENCE	FOOT	597	597	
66700305	PERMANENT SURVEY MARKERS, TYPE II	EACH	3	3	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	8	8	
67100100	MOBILIZATION	L SUM	1	1	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1	
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1	
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1	

SUMMARY OF QUANTITIES			TOTAL QUANTITY	ROADWAY QUANTITY 80% FEDERAL 20% STATE	BRIDGE QUANTITY 80% FEDERAL 20% STATE
CODE	ITEM	UNIT		I000	X020-2A
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	5	5	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	284	284	
70300625	TEMPORARY PAINT PAVEMENT MARKING LINE 4"	FOOT	4,745	4,745	
70300660	TEMPORARY PAINT PAVEMENT MARKING LINE 24"	FOOT	63	63	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1,133	1,133	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1,088	1,088	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1,063	1,063	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	11,592	11,592	
* 78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	74	74	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	11	11	
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	4	4	
* 78200520	BARRIER WALL MARKERS, TYPE B	EACH	4	4	
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
78300100	PAVEMENT MARKING REMOVAL	SQ FT	198	198	
* A2006514	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 1-3/4" CALIPER, BALLED AND BURLAPPED	EACH	3	3	
X0712400	TEMPORARY PAVEMENT	SQ YD	404	404	
X0919000	TEMPORARY PAVEMENT REMOVAL	SQ YD	404	404	
X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 1	EACH	1		1
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	

△ NON-PARTICIPATING
* SPECIALTY ITEMS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 70 OVER OTTER CREEK
SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. 2 OF 2 SHEETS STA. N/A TO STA. N/A

HOH		HARRY O. HEFFER ASSOCIATES, INC. DESIGN AND CONSULTING ENGINEERS		15 East Jackson Blvd. Suite 600 Chicago, IL 60604 312-366-8131		PROJECT NUMBER 2944
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
55	(W-15d)BR-1	WINNEBAGO	59	5		
			CONTRACT NO. 64D22			
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITES

EARTHWORK SCHEDULE

LOCATION			EARTH EXCAVATION	EARTH EXCAVATION EXCAVATION (ADJ. FOR 25% SHRINK)	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
STATION	TO	STATION	CU YD	CU YD	CU YD	CU YD
57+65	TO	61+00	884	663	447	216
61+00	TO	62+20	323	242	224	18
62+88	TO	66+00	993	745	560	185
TOTALS			2,200	1,650	1,231	419

CURB & GUTTER SCHEDULE

CURB & GUTTER SCHEDULES				60605000 CONCRETE CURB & GUTTER TYPE B-6.24	60600095 CLASS SI CONCRETE (OUTLET)	42001300 PROTECTIVE COAT
LOCATION				LENGTH	VOLUME	AREA
STATION	TO	STATION	OFFSET	(FOOT)	(CU YD)	(SQ YD)
57 + 57	TO	57 + 69	LT		1.23	5.3
57 + 65	TO	57 + 77	RT		1.23	5.3
57 + 69	TO	61 + 91	LT	421.5		120.8
57 + 77	TO	61 + 91	RT	413.5		118.5
63 + 18	TO	66 + 17	LT	299		85.7
63 + 18	TO	65 + 88	RT	270		77.4
66 + 17	TO	66 + 29	LT		1.23	5.3
65 + 88	TO	66 + 00	RT		1.23	5.3
TOTAL				1,404	5.0	424

LANDSCAPING SCHEDULE

LANDSCAPING SCHEDULES				25000100 SEEDING CLASS 1 (ACRES)	25000210 SEEDING CLASS 2A (ACRES)	25000310 SEEDING CLASS 4 (ACRES)	28000250 TEMPORARY E.C. SEEDING (POUNDS)	25100115 MULCH METHOD 2 (ACRE)	25100630 EROSION CONTROL BLANKET (SQ YD)	25000750 MOWING (ACRE)
LOCATION										
STATION	TO	STATION	OFFSET							
57 + 65	TO	62 + 52	LT	0.06	0.22	0.12	160	0.22	871	0.40
57 + 51	TO	62 + 56	RT		0.17	0.22	156	0.04	1694	0.39
62 + 75	TO	66 + 00	LT		0.19	0.19	152	0.06	1549	0.38
62 + 75	TO	66 + 00	RT	0.07	0.06	0.08	84	0.10	532	0.21
TOTAL				0.13	0.64	0.61	552	0.42	4,647	1.38

NOTES:

1. FERTILIZER IS INCLUDED IN THE COST OF SEEDING, SEE GENERAL NOTES.

ROADWAY PAVEMENT SCHEDULE

ROADWAY PAVEMENT SCHEDULES					40603335 HMA SURF. CSE. MIX D, N 50	40603080 HMA BIND. CSE. IL 19.0, N50	31100965 SUB-BASE GRAN. MAT. TYPE A, 24"
LOCATION					WEIGHT (TONS)	WEIGHT (TONS)	AREA (SQ YD)
STATION	TO	STATION	OFFSET	DESCRIPTION			
57 + 65	TO	61 + 90	LT	LEFT LANE	69	344	760
57 + 65	TO	61 + 90	RT	RIGHT LANE	69	344	760
63 + 18	TO	66 + 00	LT	LEFT LANE	46	228	504
63 + 18	TO	66 + 00	RT	RIGHT LANE	46	228	504
TOTAL					230	1,144	2,528

DRIVEWAY SCHEDULE

DRIVEWAY SCHEDULE			35101400 AGG. BASE COURSE TYPE B	40800050 INCIDENTAL HMA SURF.	42300300 PCC CONC DRIVEWAY, 7"	42001300 PROTECTIVE COAT
LOCATION			WEIGHT (TONS)	WEIGHT (TONS)	AREA (SQ YD)	AREA (SQ YD)
STATION	OFFSET	DESCRIPTION				
57 + 87	LT	PE	19.0	5.1	43.6	43.6
58 + 41	LT	PE & MAILBOX RETURN	41.0	11.6	51.4	51.4
64 + 58	RT	FE	12.2		37.0	37.0
64 + 66	LT	PE & MAILBOX RETURN	14.9	3.9	98.10	98.1
65 + 13	RT	PE	5.3	1.4	24.2	24.2
TOTAL			93	22	254	254

HOH

HARRY O. HOFFER-ASSOCIATES, INC.
DESIGN AND CONSULTING ENGINEERS
55 East Jackson Blvd.
Suite 600
Chicago, IL 60604
312-516-9121

PROJECT
NUMBER
2944

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(W-1-15d)BR-1	WINNEBAGO	59	6
CONTRACT NO. 64D22				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

FILE NAME =	USER NAME = @USER*	DESIGNED - AAF	REVISED -
H:\Projects\2944\DGNS\206207SCH1.dgn		DRAWN - AAF	REVISED -
	PLOT SCALE = 20.0000' / IN.	CHECKED - BAP	REVISED -
	PLOT DATE = 11/30/2009	DATE - 11/30/2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 70 OVER OTTER CREEK
SCHEDULE OF QUANTITIES

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A

SCHEDULE OF QUANTITES

DRAINAGE STRUCTURE SCHEDULE

STRUCTURE SCHEDULE														
TAG	RIM ELEV.			STRU. DESC.	FRAME & LID TYPE	PIPE CONNECTIONS								COMMENTS
		STA.	OFFSET			NORTH DIA.	NORTH INVERT	SOUTH DIA.	SOUTH INVERT	EAST DIA.	EAST INVERT	WEST DIA.	WEST INVERT	
DRAINAGE STRUCTURES														
100	765.93	59+65	16' LT	INLET SPECIAL, NO 5								12"	765.50	
101	765.89	59+80	16' LT	INLET SPECIAL, NO 5								12"	765.50	
102	765.93	59+65	16' RT	INLET SPECIAL, NO 5						12"	765.20	12"	765.10	
103	765.89	59+80	16' RT	INLET SPECIAL, NO 5						12"	765.20	12"	765.10	
104		59+65	30' RT	12" CONC. FLARED END SECTION								12"	762.59	
105		59+80	30' RT	12 "CONC. FLARED END SECTION						12"	762.83			
106	766.15	61+75	28' LT	MH, TYPE A, 4' DIA	TYPE 1,CL	24"	759.35	24"	759.25					REDIRECT EXIST. SEWER
107		62+28	42' LT	24" CONC. FLARED END SECTION		24"	759.00							REDIRECT EXIST. SEWER
108	766.72	63+30	13' LT	INLET, SPECIAL						12"	763.70			
109	766.72	63+30	13' RT	INLET, SPECIAL								12"	763.70	
110		63+30	52' LT	12" CONC. FLARED END SECTION								12"	761.80	
111		63+30	37' RT	12" CONC. FLARED END SECTION						12"	761.80			
112		64+52	44' LT	18" END SECTION				18"	766.27					AT DRIVEWAY CULVERT
113		64+78	44' LT	18" END SECTION		18"	767.15							AT DRIVEWAY CULVERT
114		64+38	28' RT	18" END SECTION				18"	766.5					AT DRIVEWAY CULVERT
115		65+70	24' RT	18" END SECTION		18"	771.41							AT DRIVEWAY CULVERT

NOTE: A 12" CONC. FLARED END SECTION HAS BEEN ADDED TO THE SUMMARY OF QUANTITIES TO BE USED AS A CONTINGENCY ITEM FOR THE 12" PVC STORM PIPE LOCATED AT STA. 62+47, 62' RT.

PIPE SCHEDULE

PIPE SCHEDULE						
TAG	FROM	TO	LENGTH (FOOT)	DIA.	TYPE	SLOPE (%)
STORM SEWER						
1	100	102	34	12"	STORM SEWER, CL A, TYPE 1	1.0%
2	101	103	34	12"	STORM SEWER, CL A, TYPE 1	1.0%
3	102	104	14	12"	STORM SEWER, CL A, TYPE 1	7.4%
4	103	105	14	12"	STORM SEWER, CL A, TYPE 1	6.7%
5	106	107	55	24"	STORM SEWER, CL A, TYPE 1	0.5%
6	108	110	39	12"	STORM SEWER, CL A, TYPE 1	4.9%
7	109	111	24	12"	STORM SEWER, CL A, TYPE 1	7.9%
8	112	113	26	18"	CULVERT, CL D, TYPE 1	3.4%
9	114	115	132	18"	CULVERT, CL D, TYPE 1	5.1%

NOTE: 20 FEET OF 12" STORM SEWER, CL A, TYPE 1 HAS BEEN ADDED TO THE SUMMARY OF QUANTITIES TO BE USED AS A CONTINGENCY ITEM FOR THE 12" PVC STORM PIPE LOCATED AT STA. 62+47, 62' RT.

H O H		HARRY G. HEFFER-ASSOCIATES, INC. DESIGN AND CONSULTING ENGINEERS		55 East Jackson Blvd. Suite 800 Chicago, IL 60604 312-366-8131		PROJECT NUMBER 2944	
F.A.P RTE.	SECTION		COUNTY	TOTAL SHEETS		SHEET NO.	
55	(W-1-15d)BR-1		WINNEBAGO	59		7	
				CONTRACT NO. 64D22			
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT					

FILE NAME = H:\Projects\2944\DGNS\206207SCH1.dgn	USER NAME = \$USER\$	DESIGNED - AAF	REVISED -
		DRAWN - AAF	REVISED -
	PLOT SCALE = 20.0000 ' / IN.	CHECKED - BAP	REVISED -
	PLOT DATE = 11/30/2009	DATE - 11/30/2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 70 OVER OTTER CREEK
SCHEDULE OF QUANTITIES

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A

20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)					REMARKS
	UNITS	LOCATION		OFFSET		
	12	64+92		36' LT		
	12	64+93		43' LT		
	24	TOTAL				
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)					REMARKS
	UNITS	LOCATION		OFFSET		
	18	65+71		34' LT		
	18	TOTAL				
28000305	TEMPORARY DITCH CHECKS					REMARKS
	FOOT	LOCATION		OFFSET		
	17.5	58+28		RT		
	17.5	60+28		RT		
	17.5	62+28		RT		
	17.5	62+97		LT		
	17.5	62+98		RT		
	17.5	64+97		LT		
	105	TOTAL				
28000400	PERIMETER EROSION BARRIER					REMARKS
	FOOT	LOCATION		OFFSET		
	27	57+66	TO	57+79	LT	
	425	57+98	TO	62+50	LT	
	166	62+82	TO	64+48	RT	
	30	64+72	TO	65+02	RT	
	34	65+24	TO	65+58	RT	
	36	65+64	TO	66+00	RT	
	718	TOTAL				
28000500	INLET AIND PIPE PROTECTION					REMARKS
	EACH	LOCATION		OFFSET		
	1	64+82		26' LT		
	1	64+75		23' RT		
	1	65+28		24' RT		
	3	TOTAL				
40201000	AGGREGATE FOR TEMPORARY ACCESS					REMARKS
	TONS	LOCATION		OFFSET		
	106	64+50	TO	66+00	RT	
	84	57+65	TO	58+50	LT	
	83	64+60	TO	66+00	LT	
	273	TOTAL				
40600990	TEMPORARY RAMP					REMARKS
	SQ YD	LOCATION		OFFSET		
	497	57+65	TO	61+91	RT	
	329	63+18	TO	66+00	RT	
	12	57+65		LT		
	12	61+91		LT		
	12	63+18		LT		
	12	66+00		LT		
	874	TOTAL				
44000100	PAVEMENT REMOVAL					REMARKS
	SQ YD	LOCATION		OFFSET		
	660	57+65	TO	62+25	LT	
	660	57+65	TO	62+25	RT	
	428	63+06	TO	66+00	LT	
	428	63+06	TO	66+00	RT	
	2,176	TOTAL				
44000600	SIDEWALK REMOVAL					REMARKS
	SQ FT	LOCATION		OFFSET		
	45	57+94	TO	58+08	LT	
	17	65+61	TO	65+63	RT	
	62	TOTAL				

48100100	AGGREGATE SHOULDERS, TYPE A					REMARKS
	TON	LOCATION		OFFSET		
	8.8	56+65	TO	57+58	LT	
	9.5	56+65	TO	57+65	RT	
	7.7	66+29	TO	67+10	LT	
	9.5	66+00	TO	67+00	RT	
	36	TOTAL				
50105200	REMOVE EXISTING CULVERTS					REMARKS
	EACH	LOCATION		OFFSET		
	1	65+13		RT		
	1	TOTAL				INCLUDES HEADWALL REMOVAL (2 EACH)
56109210	WATER VALVES TO BE ADJUSTED					REMARKS
	EACH	LOCATION		OFFSET		
	1	60+88		47' LT		
	1	65+12		28' LT		
	2	TOTAL				
60107600	PIPE UNDERDRAINS 4"					REMARKS
	FOOT	LOCATION		OFFSET		
	16	59+80		LT		
	16	59+80		RT		
	14	63+30		LT		
	14	63+30		RT		
	60	TOTAL				
60255500	MANHOLES TO BE ADJUSTED					REMARKS
	EACH	LOCATION		OFFSET		
	1	58+61		28' LT		
	1	60+17		28' LT		
	2	TOTAL				
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6					REMARKS
	EACH	LOCATION		OFFSET		
	1	61+45	TO	61+90	LT	
	1	61+59	TO	62+05	RT	
	1	63+18	TO	63+64	LT	
	1	63+03	TO	63+49	RT	
	4	TOTAL				
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT					REMARKS
	EACH	LOCATION		OFFSET		
	1	60+95	TO	61+45	LT	
	1	61+09	TO	61+59	RT	
	1	63+64	TO	64+14	LT	
	1	63+49	TO	63+99	RT	
	4	TOTAL				
63200310	GUARDRAIL REMOVAL					REMARKS
	FOOT	LOCATION		OFFSET		
	98	61+27	TO	62+25	LT	
	99	61+26	TO	62+25	RT	
	99	63+06	TO	64+05	LT	
	99	63+06	TO	64+05	RT	
	395	TOTAL				
63300705	RUB RAIL					REMARKS
	FOOT	LOCATION		OFFSET		
	96	60+95	TO	61+90	LT	
	96	63+18	TO	64+14	LT	
	192	TOTAL				
63500105	DELINEATORS					REMARKS
	EACH	LOCATION		OFFSET		
	1	57+55		LT		
	1	57+65		RT		
	1	60+94		LT		
	1	61+08		RT		
	1	64+00		RT		
	1	64+13		LT		
	1	66+01		LT		
	1	66+02		RT		
	8	TOTAL				

H O H		HARRY G. HEFFER ASSOCIATES, INC. DESIGN AND CONSULTING ENGINEERS 312-344-9131		38 East Jackson Blvd. Suite 600 Chicago, IL 60604		PROJECT NUMBER 2944	
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	CONTRACT NO. 64022		FED. ROAD DIST. NO.
55	(W-1-15d)BR-1	WINNEBAGO	59	8			
SCALE:		SHEET NO.	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -
H:\Projects\2944\DGNS\206207SCH1.dgn		DRAWN -	REVISED -
	PLOT SCALE = 20.0000' / 1" =	CHECKED -	REVISED -
	PLOT DATE = 12/16/2009	DATE - 12/16/2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 70 OVER OTTER CREEK
SCHEDULE OF QUANTITIES

66411900	TEMPORARY FENCE						
	FOOT	LOCATION		OFFSET	REMARKS		
	479	57+66	TO	62+45	RT	PLACE ALONG TEMP. ESMT WITHIN SCHOOL PROPERTY	
	118	62+82	TO	64+00	RT	PLACE ALONG TEMP. ESMT WITHIN SCHOOL PROPERTY	
	597	TOTAL					
66700305	PERMANENT SURVEY MARKERS, TYPE II						
	EACH	LOCATION		OFFSET	REMARKS		
	1	57+60				EXACT LOCATION TBD BY RESIDENT ENGINEER	
	1	BRIDGE				EXACT LOCATION TBD BY RESIDENT ENGINEER	
	1	66+00				EXACT LOCATION TBD BY RESIDENT ENGINEER	
	3	TOTAL					
70300100	SHORT-TERM PAVEMENT MARKING						
	FOOT	LOCATION		OFFSET	REMARKS		
	284	54+74	TO	68+91		2 APPLICATIONS	
	284	TOTAL					
70300625	TEMPORARY PAINT PAVEMENT MARKING - LINE 4"						
	FOOT	LOCATION		OFFSET	REMARKS		
	1364	54+69	TO	68+33	LT	STAGE 1, WHITE LEFT EDGE	
	1040	56+61	TO	67+01	RT/LT	STAGE 1, WHITE RIGHT EDGE	
	1329	55+45	TO	68+74	RT/LT	STAGE 2, WHITE LEFT EDGE	
	1012	56+75	TO	66+87	LT	STAGE 2, WHITE RIGHT EDGE	
	4,745	TOTAL					
	70300660	TEMPORARY PAINT PAVEMENT MARKING - LINE 24"					
FOOT		LOCATION		OFFSET	REMARKS		
13		53+73			RT	USE FOR STAGES 1&2	
17		53+92	TO	54+09	LT	USE FOR STAGES 1&2 @ SOUTH ST.	
20		54+09	TO	55+29	RT	USE FOR STAGES 1&2 @ SOUTH ST.	
13		68+97			LT	USE FOR STAGES 1&2	
63		TOTAL					
70301000		WORK ZONE PAVEMENT MARKING REMOVAL					
	SQ.FT	LOCATION		OFFSET	REMARKS		
	35	56+61	TO	57+65	LT LINE	STAGE 1, LEFT EDGE LINE	
	99	54+69	TO	57+65	RT LINE	STAGE 1, RIGHT EDGE LINE	
	34	66+00	TO	67+01	LT LINE	STAGE 1, LEFT EDGE LINE	
	78	66+00	TO	68+33	RT LINE	STAGE 1, RIGHT EDGE LINE	
	443	55+45	TO	68+74	LT LINE	STAGE 2, LEFT EDGE LINE	
	333	56+75	TO	66+75	RT LINE	STAGE 2, RIGHT EDGE LINE	
	48	54+69	TO	68+75	CENTER	STOP BAR	
	13	53+74			LT	STOP BAR	
	17	53+92	TO	54+09	LT	SOUTH ST. STOP BAR	
	20	54+09	TO	55+29	RT	SOUTH ST. STOP BAR	
	13	68+97			RT LINE	SHORT TERM PAVEMENT MARKINGS ON TOP LIFT	
	1,133	TOTAL					
	70400100	TEMPORARY CONCRETE BARRIER					
		FOOT	LOCATION		OFFSET	REMARKS	
		1087.5	56+37.5	TO	67+25.0		STAGE 1 MOT
		1,087.5	TOTAL				
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER					
		FOOT	LOCATION		OFFSET	REMARKS	
		1062.5	56+50.0	TO	67+12.5		STAGE 2 MOT
		1,062.5	TOTAL				
	78001110	PAINT PAVEMENT MARKING - LINE 4"					
		FOOT	LOCATION		OFFSET	REMARKS	
		2728	54+69	TO	68+33	LT	WHITE EDGE LINE-2 APPLICATIONS
2728		54+69	TO	68+33	RT	WHITE EDGE LINE-2 APPLICATIONS	
5456		54+69	TO	68+33	CENTER	DOUBLE YELLOW-2 APPLICATIONS	
680		54+69	TO	68+33	CENTER	SKIP DASH-YELLOW-2 APPLICATIONS	
11,592		TOTAL					

78001180	PAINT PAVEMENT MARKING - LINE 24"					
	<u>FOOT</u>	<u>LOCATION</u>		<u>OFFSET</u>	<u>REMARKS</u>	
	34	53+92	TO	54+09	LT	WHITE STOP BAR @ SOUTH ST.-2 APPLICATIONS
	40	54+09	TO	54+29	RT	WHITE STOP BAR @ SOUTH ST.-2 APPLICATIONS
	74	TOTAL				
78100100	RAISED REFLECTIVE PAVEMENT MARKER					
	<u>EACH</u>	<u>LOCATION</u>		<u>OFFSET</u>	<u>REMARKS</u>	
	11	57+65	TO	66+00		2 WAY AMBER 80' C-C
	11	TOTAL				
78200410	GUARDRAIL MARKERS, TYPE A					
	<u>EACH</u>	<u>LOCATION</u>		<u>OFFSET</u>	<u>REMARKS</u>	
	1	61+60		RT		
	1	61+70		LT		
	1	63+40		RT		
	1	62+50		LT		
	4	TOTAL				
78200520	BARRIER WALL MARKERS, TYPE B					
	<u>EACH</u>	<u>LOCATION</u>		<u>OFFSET</u>	<u>REMARKS</u>	
	1	62+20		RT		
	1	62+30		LT		
	1	62+80		RT		
	1	62+90		LT		
	4	TOTAL				
78201000	TERMINAL MARKER - DIRECT APPLIED					
	<u>EACH</u>	<u>LOCATION</u>		<u>OFFSET</u>	<u>REMARKS</u>	
	1	60+95		LT		
	1	61+09		RT		
	1	64+14		LT		
	1	63+99		RT		
	4	TOTAL				
78300100	PAVEMENT MARKING REMOVAL					
	<u>SQ.FT</u>	<u>LOCATION</u>		<u>OFFSET</u>	<u>REMARKS</u>	
	181	54+69	TO	57+40	CENTER	DOUBLE YELLOW CENTER LINE
	17	66+25	TO	68+33	CENTER	SKIP-DASH YELLOW CENTER LINE
	198	TOTAL				
X0712400	TEMPORARY PAVEMENT					
	<u>SQ.YD</u>	<u>LOCATION</u>		<u>OFFSET</u>	<u>REMARKS</u>	
	192	56+50	TO	62+25	LT	STAGE 1
	136	63+06	TO	67+10	LT	STAGE 1
	38	56+65	TO	57+77	RT	STAGE 2
	38	65+88	TO	67+00	RT	STAGE 2
	404	TOTAL				
X0919000	TEMPORARY PAVEMENT REMOVAL					
	<u>SQ.YD</u>	<u>LOCATION</u>		<u>OFFSET</u>	<u>REMARKS</u>	
	192	56+50	TO	62+25	LT	STAGE 1
	136	63+06	TO	67+10	LT	STAGE 1
	38	56+65	TO	57+77	RT	STAGE 2
	38	65+88	TO	67+00	RT	STAGE 2
	404	TOTAL				
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3					
	<u>EACH</u>	<u>LOCATION</u>		<u>OFFSET</u>	<u>REMARKS</u>	
	1	56+37.5		RT	STAGE 1 MOT (USE NARROW DEVICE)	
	1	67+25		RT	STAGE 1 MOT (USE NARROW DEVICE)	
	2	TOTAL				
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3					
	<u>EACH</u>	<u>LOCATION</u>		<u>OFFSET</u>	<u>REMARKS</u>	
	1	56+50		LT	STAGE 2 MOT	
	1	67+12.5		LT	STAGE 2 MOT	
	2	TOTAL				

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	DRAWN -	REVISED -	55						(W-1-15)BR-1	WINNEBAGO	59	9		
	PLOT SCALE = 28.8888' / IN.	CHECKED -	REVISED -						CONTRACT NO. 64D22					
	PLOT DATE = 11/30/2009	DATE = 11/30/2009	REVISED -						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
				SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.					

HOH

HARRY G. HEFFER ASSOCIATES, INC.

DESIGN AND CONSULTING ENGINEERS

95 East Jackson Blvd.

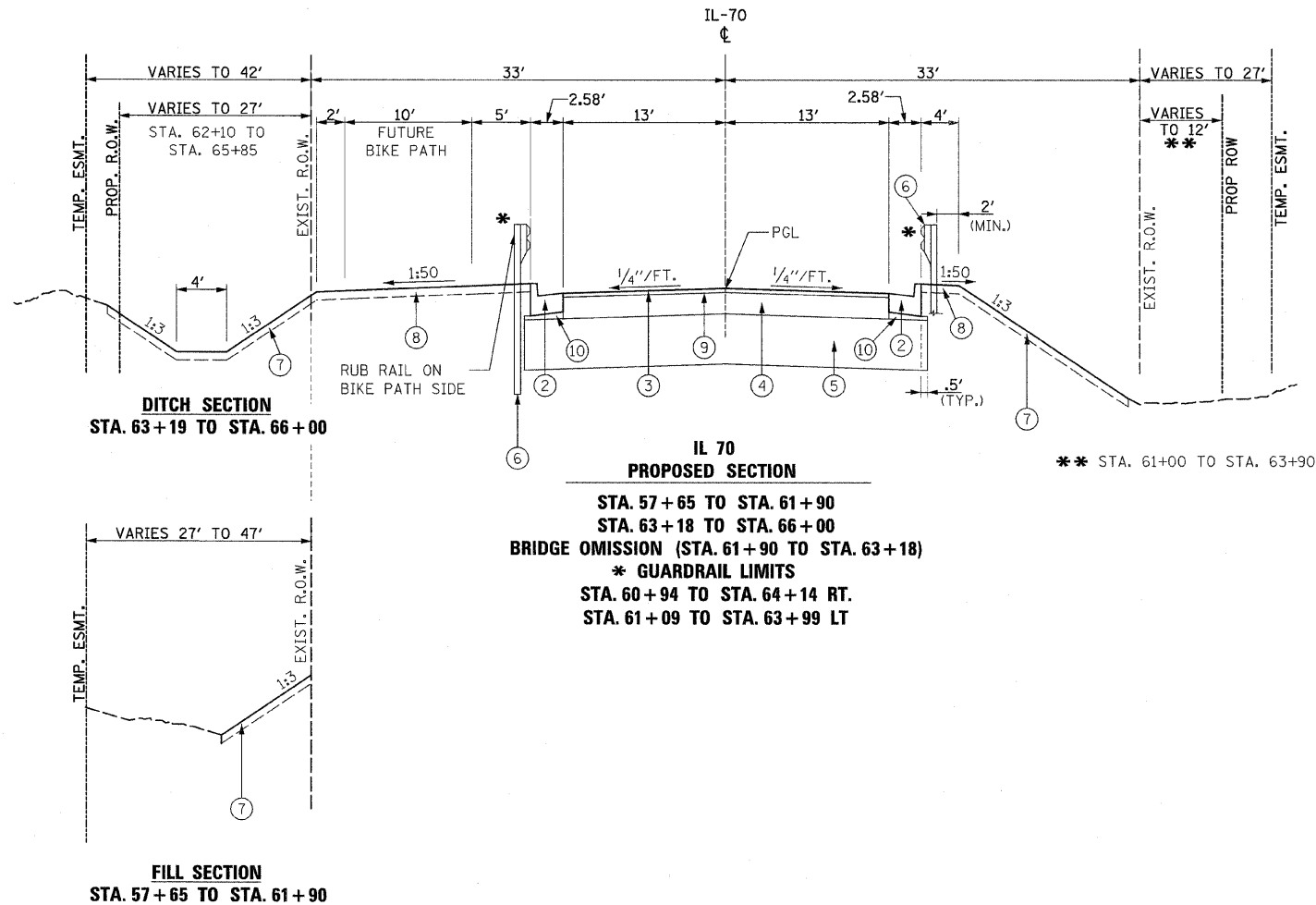
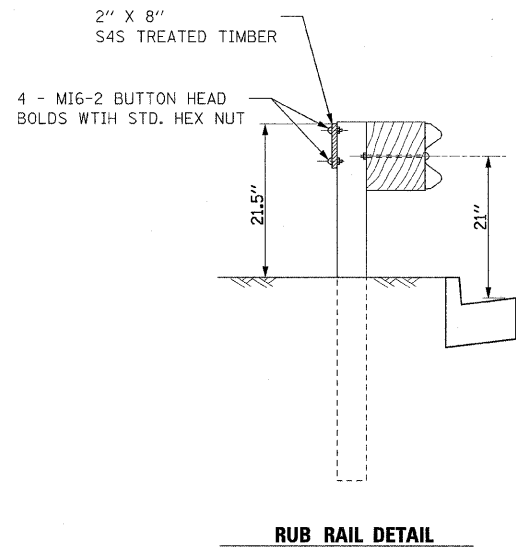
Suite 600

Chicago, IL 60604

312-546-9131

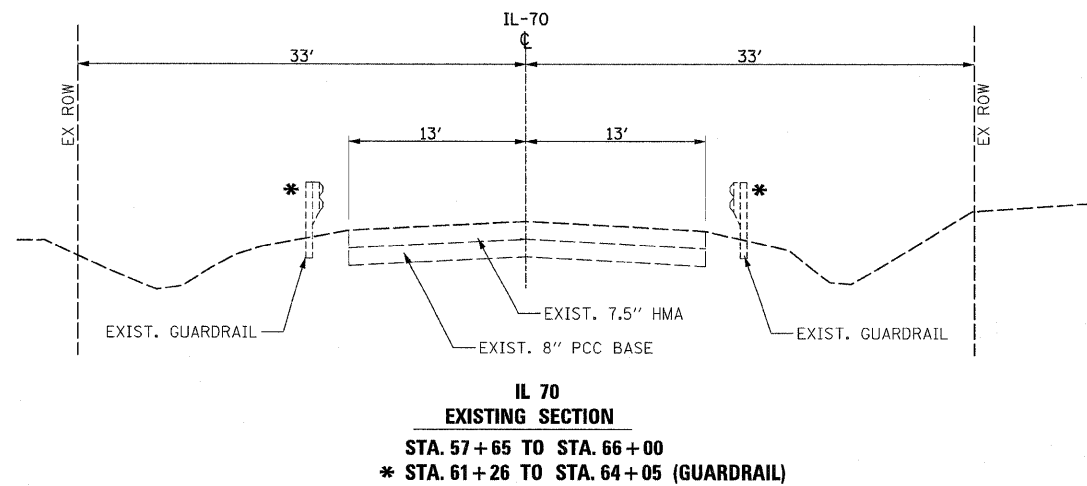
PROJECT NUMBER

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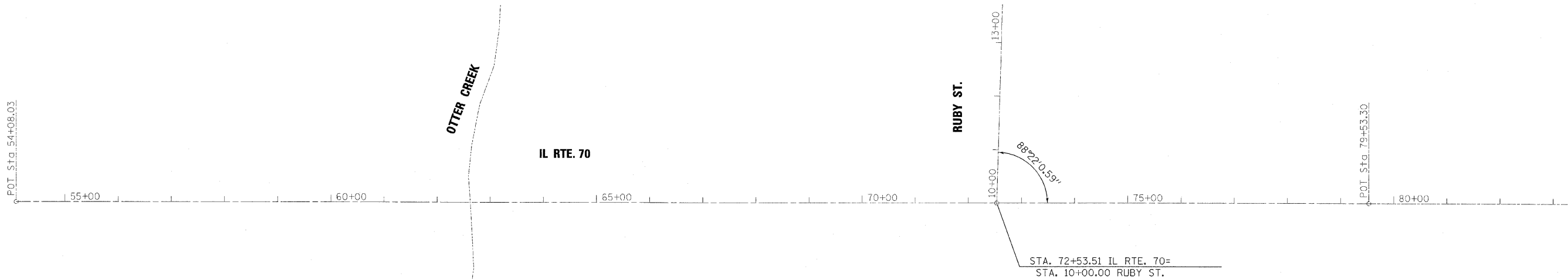


LEGEND

- ① NOT USED
- ② COMB. CONCRETE CURB & GUTTER, TYPE B-6.24
- ③ HMA SURFACE COURSE, MIX "D", N50 (2")
- ④ HMA BINDER COURSE, IL 19.0, N50 (10.25")
- ⑤ SUBBASE GRANULAR MATERIAL, TYPE A (24")
- ⑥ STEEL PLATE BEAM GUARDRAIL
- ⑦ SEEDING, FERTILIZER AND EROSION CONTROL BLANKET
- ⑧ SEEDING, FERTILIZER AND MULCH, METHOD 2
- ⑨ BITUMINOUS MATERIALS (PRIME COAT)
(INCLUDED IN COST OF SURFACE COURSE)
- ⑩ CA6-CA10 (COST INCLUDED IN SUB-BASE GRANULAR MATERIAL, TYPE A)



FILE NAME =	USER NAME = @USER@	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		IL 70 OVER OTTER CREEK TYPICAL SECTION		HOH HARRY D. HEFTER ASSOCIATES, INC. DESIGN AND CONSULTING ENGINEERS 55 East Jackson Blvd. Suite 800 Chicago, IL 60604 312-346-4131		PROJECT NUMBER 2944	
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	PLOT DATE = 11/30/2009	DATE = 11/30/2009	REVISED -								
				SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA. N/A TO STA. N/A		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	



BENCH MARKS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
400	2098082.9958	2522126.5787	794.5820	IL70	89+12.5193	70.3488 LT	CONC TRANS PAD
401	2100506.3070	2522046.0570	772.4980	IL70	64+87.8720	67.8934 LT	ON CONC W SIDE SE OF BRIDGE LIFT STATION FOR SANITARY SEWER
402	2101014.6110	2522009.6346	763.8210	IL70	59+78.6588	47.8560 LT	ON W SIDE OF LIGHT BASE @ PARK LP
404	2099764.4506	2522398.9801	806.7610	IL70	72+40.7070	396.7476 LT	O IN OPEN ACROSS FROM HOUSE #14941 FIRE HYDRANT

REFERENCE TIES

POINT	CHAIN	STATION	OFFSET	DESCRIPTION
692	IL70	106+61.2556	25.4105' RT	HEADWALL
693	IL70	107+32.9979	110.4948' RT	POWER POLE, SHINER
694	IL70	107+38.7088	98.3867' LT	POWER POLE, SHINER
695	IL70	106+79.6116	483.0311' LT	POWER POLE, SHINER
696	IL70	107+46.8903	607.6618' LT	POWER POLE WITH TRANSFORMER, SHINER
697	IL70	106+85.1474	741.3398' LT	POWER POLE, SHINER
698	IL70	107+34.8355	438.9623' LT	POWER POLE, SHINER
699	IL70	107+35.3293	669.772' LT	POWER POLE WITH TRANSFORMER, SHINER

APPARENT PROPERTY CORNERS

POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
700	2096289.2178	2522113.9783	847.1878	IL70	107+04.9613	0.0520 RT	Desc=P.K. NAIL SECTION CORNER
702	2101583.3990	2521943.4305	769.0948	IL70	54+08.0343	0.0003 RT	Desc=NAIL SECTION CORNER
703	2099770.4086	2522747.9659	805.1500	IL70	72+45.9885	745.7443 LT	5/8 PIN
704	2099703.0605	2522621.2528	807.6600	IL70	73+09.2218	616.9284 LT	5/8 PIN BENT
705	2099701.6325	2522510.9139	807.0300	IL70	73+07.0965	506.6008 LT	5/8 PIN BENT
706	2099766.3648	2522398.0036	803.4700	IL70	72+38.7623	395.8332 LT	PIN
707	2099698.4525	2522218.5914	806.5200	IL70	73+00.8628	214.3274 LT	PIN
708	2099366.3268	2522046.6670	797.7722	IL70	76+27.2807	31.7986 LT	SURVEY NAIL
709	2099333.3600	2522048.3662	797.6143	IL70	76+60.2852	32.4354 LT	5/8 PIN
710	2099300.3843	2522050.0213	797.0480	IL70	76+93.2971	33.0279 LT	SURVEY NAIL
711	2098700.9518	2522069.2113	787.2739	IL70	82+93.0366	32.9078 LT	5/8 PIN

Chain IL70 contains:
1230 98 1220 S100

Beginning chain IL70 description
Feature: 111

Point 1230 N 2,101,583.3988 E 2,521,943.4308 Sta 54+08.03

Course from 1230 to 98 S 1° 50' 42.36" E Dist 2,545.2669'

Point 98 N 2,099,039.4515 E 2,522,025.3820 Sta 79+53.30

Course from 98 to 1220 S 1° 50' 42.36" E Dist 2,746.6988'

Point 1220 N 2,096,294.1769 E 2,522,113.8188 Sta 107+00.00

Course from 1220 to S100 S 2° 26' 34.80" E Dist 2,055.1367'

Point S100 N 2,094,240.9080 E 2,522,201.4200 Sta 127+55.14

Ending chain IL70 description

HOH		HARRY O. HEFTEN-ASSOCIATES, INC. DESIGN AND CONSULTING ENGINEERS		51 East Jackson Blvd. Suite 800 Chicago, IL 60604 312-516-8131		PROJECT NUMBER 2944
F.A.P RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
55	(W-1-15d)BR-1		WINNEBAGO	59	11	
CONTRACT NO. 64D22						
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT				

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		DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 11/30/2009	DATE = 11/30/2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 70 OVER OTTER CREEK
EXISTING HORIZONTAL & VERTICAL CONTROL

SCALE: 1" = 100' SHEET NO. 1 OF 2 SHEETS STA. 57+65 TO STA. 66+00

HORIZONTAL CONTROL POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
1052	2096779.2000	2522075.0100	830.9700	IL70	102+13.9788	23.1721' RT	WINNEBAGE CO. GPS MON. (108A)
1053	2096338.9330	2522718.9460	862.7730	IL70	106+74.7506	606.2545' LT	GPS CONTROL POINT, DISK
900143	2096323.8920	2522078.9520	844.6730	IL70	106+69.1776	33.8919' RT	GPS CONTROL POINT, PIN

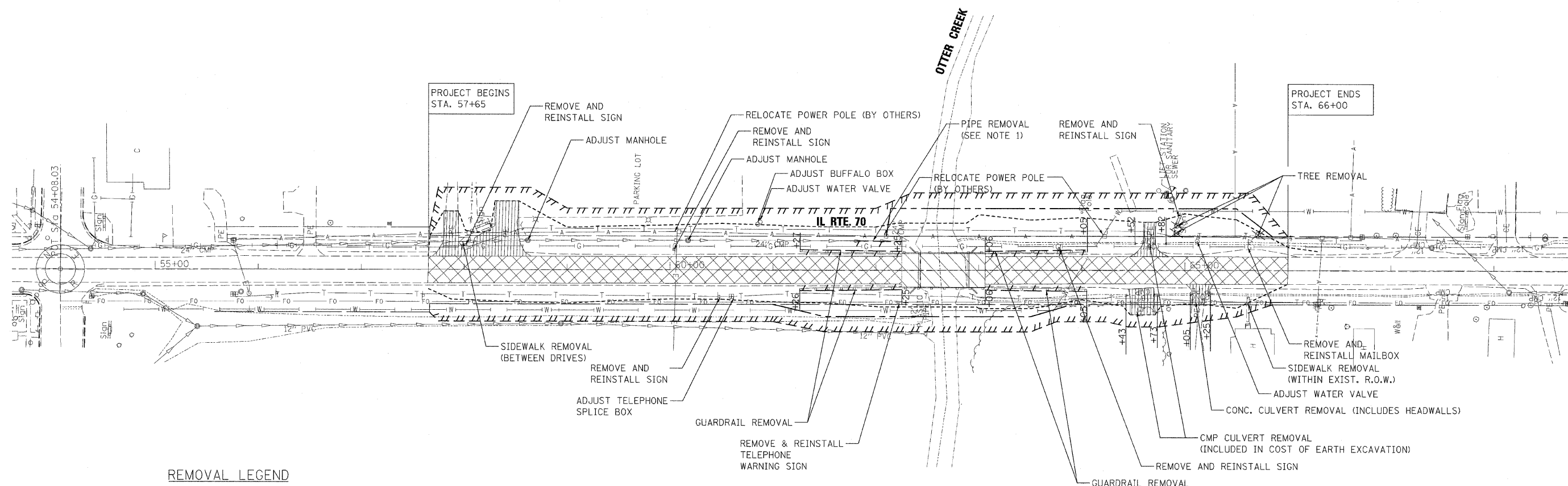
SURVEY WORK POINTS							
POINT	NORTH	EAST	ELEVATION	CHAIN	STATION	OFFSET	DESCRIPTION
100	2099680.7142	2521986.6755	797.6590	IL 70	73+11.1248	18.0394' RT	5/8 WITH CAP
101	2100554.9900	2521993.7400	768.0750	IL 70	64+37.5297	17.1710' LT	5/8 WITH CAP
102	2100983.4100	2521937.0300	763.3450	IL 70	60+07.5059	25.7156' RT	5/8 WITH CAP
103	2102048.0836	2521958.5778	771.1280	IL 70	OffChain	OffChain	5/8 WITH CAP
104	2101560.1052	2521973.9623	768.3510	IL 70	54+32.2988	29.7657' LT	SURVEY PK NAIL
105	2099759.7703	2522296.8645	805.4360	IL 70	72+42.0970	294.5342 LT	5/8 WITH CAP
106	2096294.3806	2522114.8102	847.3038	IL 70	106+99.8283	0.9975' LT	SURVEY PK NAIL
110	2100890.3085	2521697.4628	762.3469	IL 70	60+92.8457	268.1562' RT	GPS WP
111	2100878.0137	2521229.8749	762.7400	IL 70	60+90.0790	735.8975' RT	GPS WP

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	PLOT SCALE = 100.0000' / IN.	DRAWN -	REVISED -						55	(W-1-15d)BR-1	WINNEBAGO	59	12
	PLOT DATE = 11/30/2009	CHECKED -	REVISED -						CONTRACT NO. 64D22				
	DATE = 11/30/2009	DATE = 11/30/2009	REVISED -						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

HOH

HARRY O. HETTER-ASSOCIATES, INC.
DESIGN AND CONSULTING ENGINEERS
55 East Jackson Blvd.
Suite 800
Chicago, IL 60604
312-516-9191

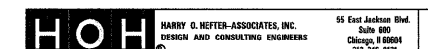
PROJECT NUMBER
2944



	PAVEMENT REMOVAL (HMA)
	SIDEWALK REMOVAL
	DRIVEWAY REMOVAL (INCLUDED IN EARTH EX.)
	BRIDGE WORK ZONE
	GUARDRAIL REMOVAL
	TREE REMOVAL

NO ITEM 3

1. COST OF REMOVING THE EXISTING PIPE AND ANY MATERIAL MAKING THE CONNECTION WILL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE VARIOUS ITEMS OF WORK.
2. THE COST OF REMOVING AND REINSTALLING SIGNS SHALL BE INCLUDED IN THE COST FOR EARTH EXCAVATION.
3. THE COST OF ADJUSTING BUFFALO BOX SHALL BE INCLUDED IN THE COST FOR VALVE VAULT ADJUSTMENT.



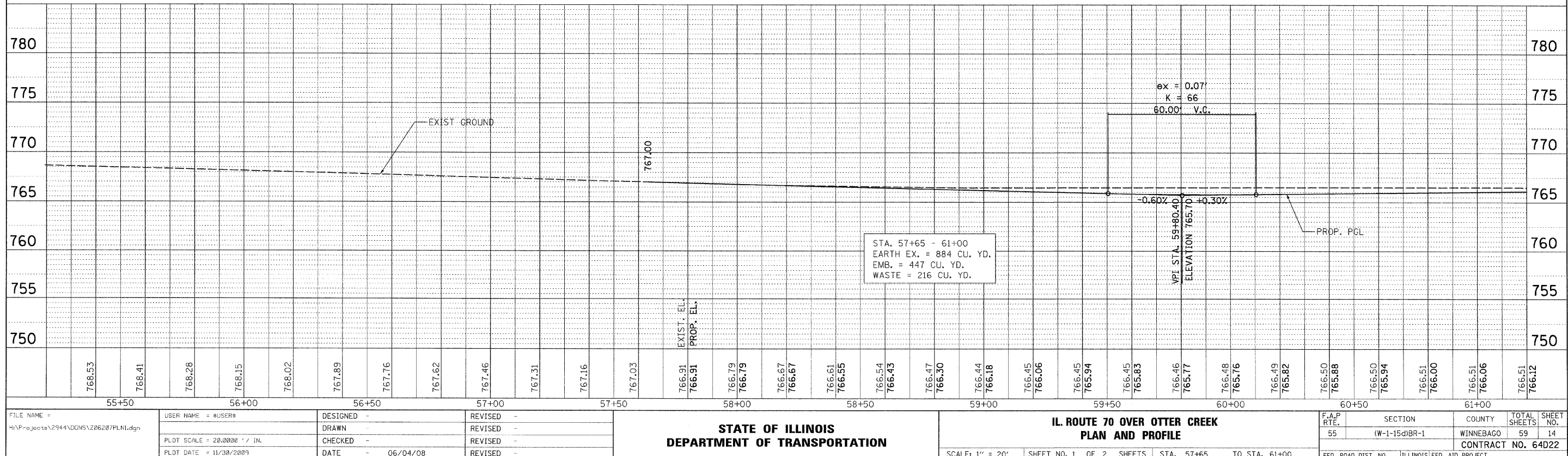
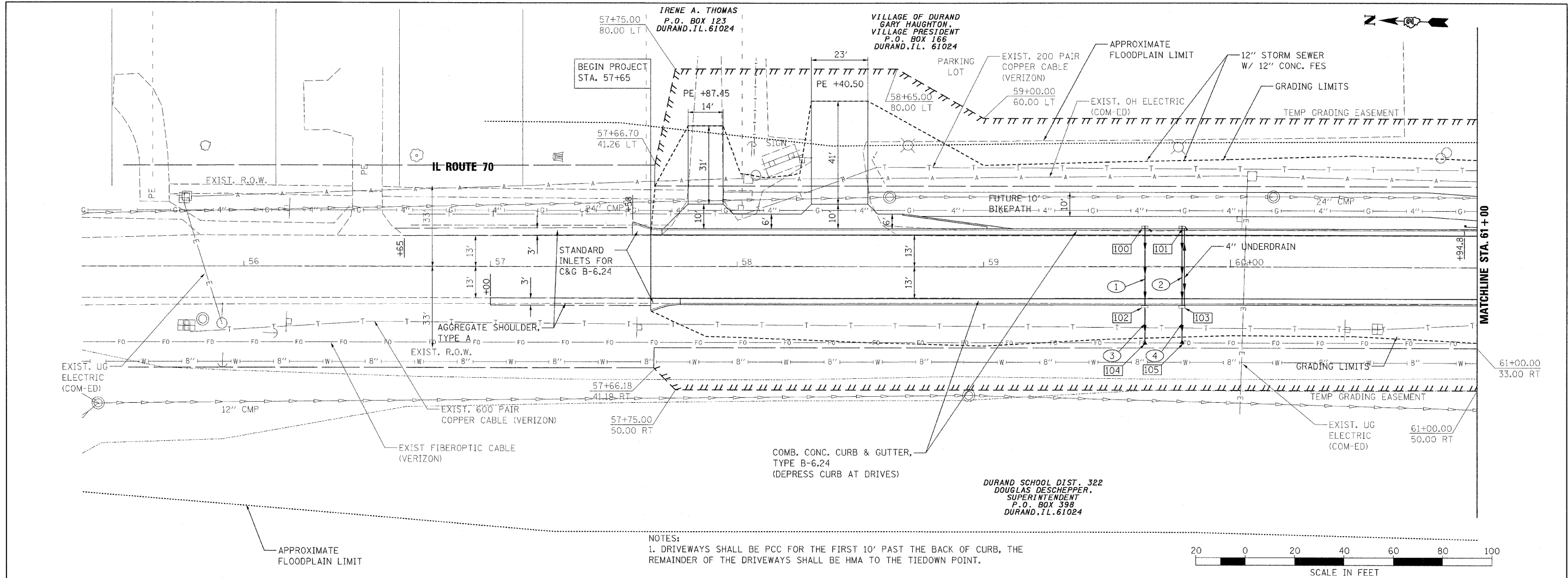
REM1

PLAN	DATE	BY
SURVEYED		
DESIGNED		
CHECKED		
ALIGNED		
RT. OF WAY		
CHECKED		
NO.		

PROFILE	DATE	BY
SURVEYED		
DESIGNED		
CHECKED		
ALIGNED		
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NO.		

HOH

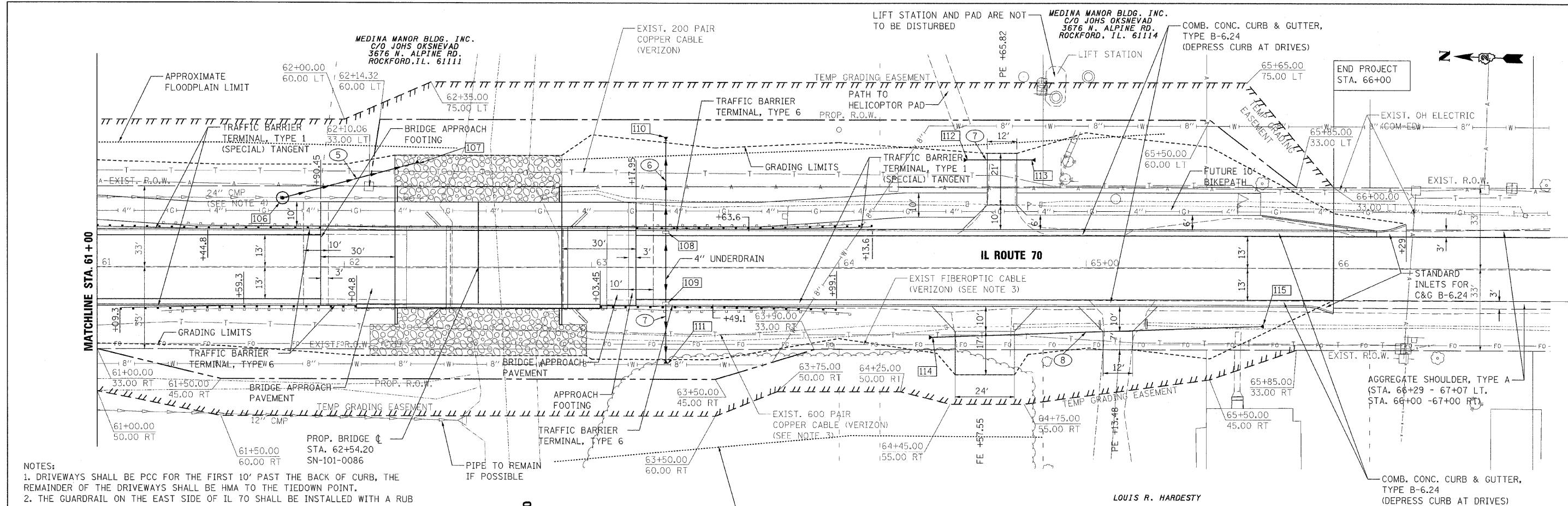
HOH & ASSOCIATES, INC.
SURVEYING, ENGINEERING, ARCHITECTURE
2944
111-364-3111



PLAN
SURVEYED BY
DRAWN BY
CHECKED BY
DATE
NOTE BOOK NO.
RT. OF WAY CHECKED
CADD FILE NAME

PROFILE
SURVEYED BY
DRAWN BY
CHECKED BY
DATE
NOTE BOOK NO.
STRUCTURE NOTATION OK'D

HOH
15 East Jackson Blvd.
Suite 100
Chicago, IL 60604
312-354-8471
FAX 312-354-8472
PROJECT NO. 2944
DATE 06/04/08

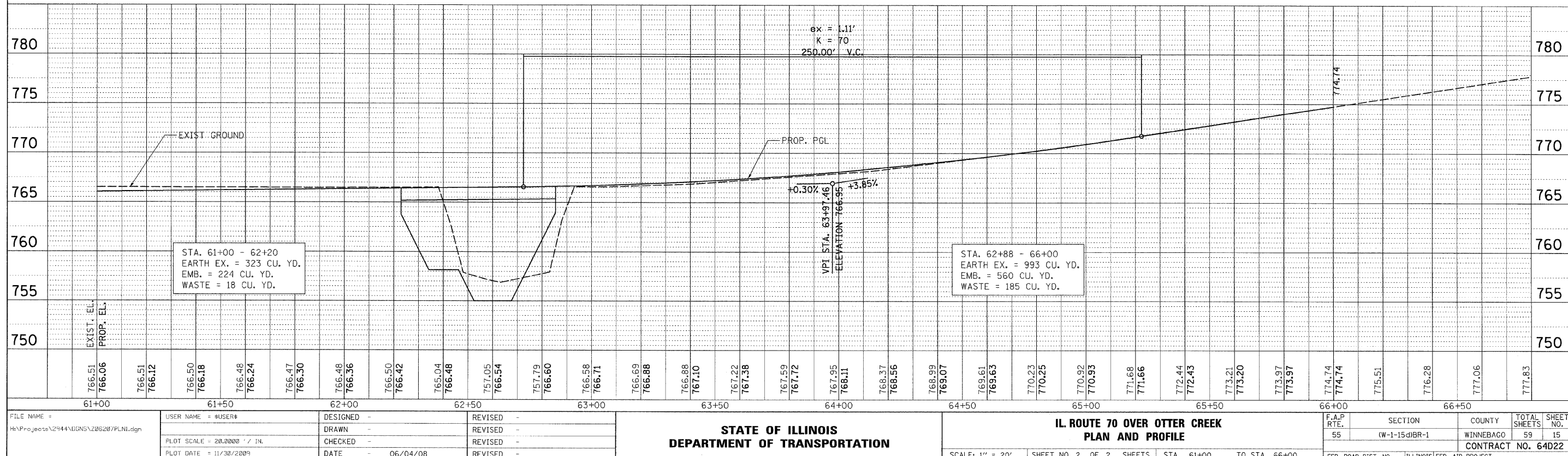
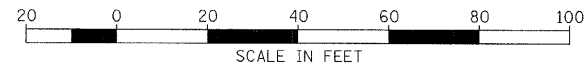


- NOTES:
1. DRIVEWAYS SHALL BE PCC FOR THE FIRST 10' PAST THE BACK OF CURB, THE REMAINDER OF THE DRIVEWAYS SHALL BE HMA TO THE TIEDOWN POINT.
 2. THE GUARDRAIL ON THE EAST SIDE OF IL 70 SHALL BE INSTALLED WITH A RUB RAIL ON THE BACK OF THE GUARDRAIL ALONG THE FUTURE BIKEPATH.
 3. VERIZON PLACING CREWS CAN WORK ALONGSIDE THE CONTRACTOR IF REQUIRED TO ADJUST THE CABLES NEAR THE DRIVEWAY CULVERT & BRIDGE TO AVOID REPLACING THE CABLE.
 4. COST OF REMOVING THE EXISTING PIPE AND ANY MATERIAL MAKING THE CONNECTION WILL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE VARIOUS ITEMS OF WORK.

DURAND SCHOOL DIST. 322
DOUGLAS DESCHIEPPER,
SUPERINTENDENT
P.O. BOX 398
DURAND, IL 61024

SHIRL W. &
DARLENE LANGLEY
TRUSTEES
15113 FREEPORT RD.
DURAND, IL 61024

LOUIS R. HARDESTY
12290 CENTER RD.
DURAND, IL 61024



IL ROUTE 70 MAINTENANCE OF TRAFFIC NOTES

PRE-STAGE

EXISTING: ONE LANE IN EACH DIRECTION

PROPOSED: ONE LANE IN EACH DIRECTION

TRAFFIC CONTROL AND PROTECTION
INSTALL IDOT STANDARD 701326

INSTALL TEMPORARY PAVEMENT ON EASTBOUND AND WESTBOUND LANES.

STAGE 1

EXISTING: ONE LANE IN EACH DIRECTION

PROPOSED: ONE LANE, ONE WAY TRAFFIC IN
CONSTRUCTION AREA CONTROLLED BY IDOT STANDARD
701201.

TRAFFIC CONTROL AND PROTECTION

1. INSTALL TEMPORARY TRAFFIC CONTROL DEVICES ACCORDING TO IDOT STANDARD 701321.
2. INSTALL ADVANCE WARNING SIGNS ALONG SOUTH ST.
3. INSTALL TEMPORARY PAVEMENT MARKINGS, INFORMATIONAL WARNING SIGNS (D2 STD. 39.2), DRIVEWAY STAGING SIGNS (D2 STD. 75.2) AND STOP LINE FOR TEMPORARY SIGNALS (D2 STD. 99.4).
4. SHIFT LT 70 TRAFFIC TO THE EAST SIDE OF THE EXISTING BRIDGE (SEE BRIDGE PLAN FOR DETAILS)

1. REMOVE WEST 15' OF EXISTING BRIDGE AND APPROACH PAVEMENT AS REQUIRED.
2. CONSTRUCT WEST 15' OF PROPOSED BRIDGE AND ROADWAY PAVEMENT AS REQUIRED.
3. CONSTRUCT CURB & GUTTER ON WEST SIDE OF ROADWAY (EXCLUDING INLETS)
3. CONSTRUCT PROPOSED GUARDRAIL ALONG WEST SIDE OF ROADWAY.
4. EXISTING DRIVEWAY ACCESS SHALL BE MAINTAINED BY THE CONTRACTOR WITHIN THE WORK ZONE USING TEMPORARY AGGREGATE.

SHIFT TEMPORARY TRAFFIC CONTROL DEVICES (IE STRIPING, BARRIERS AND ATTENUATORS)

STAGE 2

EXISTING: ONE LANE, ONE WAY TRAFFIC IN
CONSTRUCTION AREA CONTROLLED BY TEMPORARY TRAFFIC
SIGNAL AND IDOT STANDARD 701321

PROPOSED: ONE LANE, ONE WAY TRAFFIC IN
CONSTRUCTION AREA CONTROLLED BY TEMPORARY TRAFFIC
SIGNAL AND IDOT STANDARD 701321.

TRAFFIC CONTROL AND PROTECTION
1. REMOVE AND REINSTALL TEMPORARY TRAFFIC CONTROL DEVICES AND SIGNS USING IDOT STANDARD 701321 FOR TRAFFIC RELOCATION. PAY ITEM AND SPEC STIPULATES RELOCATION OF STANDARD 701321 AS INCIDENTAL AND INCLUDED IN EACH FOR STAGE 1.
2. INSTALL DRIVEWAY STAGING SIGNS (D2 STANDARD 39.2)

- CONSTRUCTION
1. REMOVE EAST 15' OF EXISTING BRIDGE AND APPROACH PAVEMENT AS REQUIRED.
2. CONSTRUCT EAST 27' OF PROPOSED BRIDGE AND ROADWAY PAVEMENT AS REQUIRED.
3. CONSTRUCT CURB & GUTTER ON EAST SIDE OF ROADWAY.
4. CONSTRUCT BIKE TRAIL EMBANKMENT ALONG EAST PARKWAY.
5. CONSTRUCT PROPOSED GUARDRAIL ALONG EAST SIDE OF ROADWAY.
6. EXISTING DRIVEWAY ACCESS SHALL BE MAINTAINED BY THE CONTRACTOR WITHIN THE WORK ZONE USING TEMPORARY AGGREGATE.

REMOVE STANDARD 701321

STAGE 3

EXISTING: ONE LANE, ONE WAY TRAFFIC IN
CONSTRUCTION AREA CONTROLLED BY TRAFFIC SIGNAL.

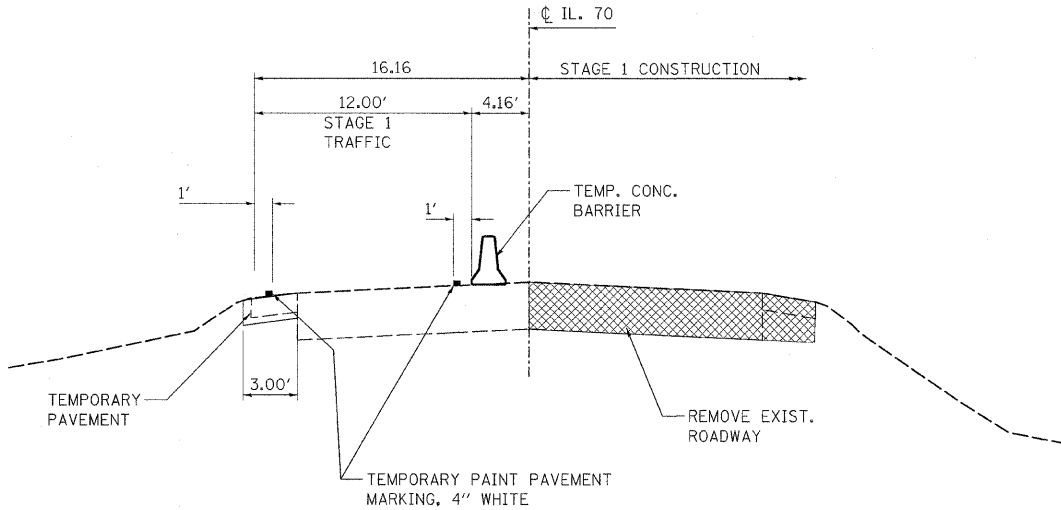
PROPOSED: ONE LANE IN EACH DIRECTION

TRAFFIC CONTROL AND PROTECTION

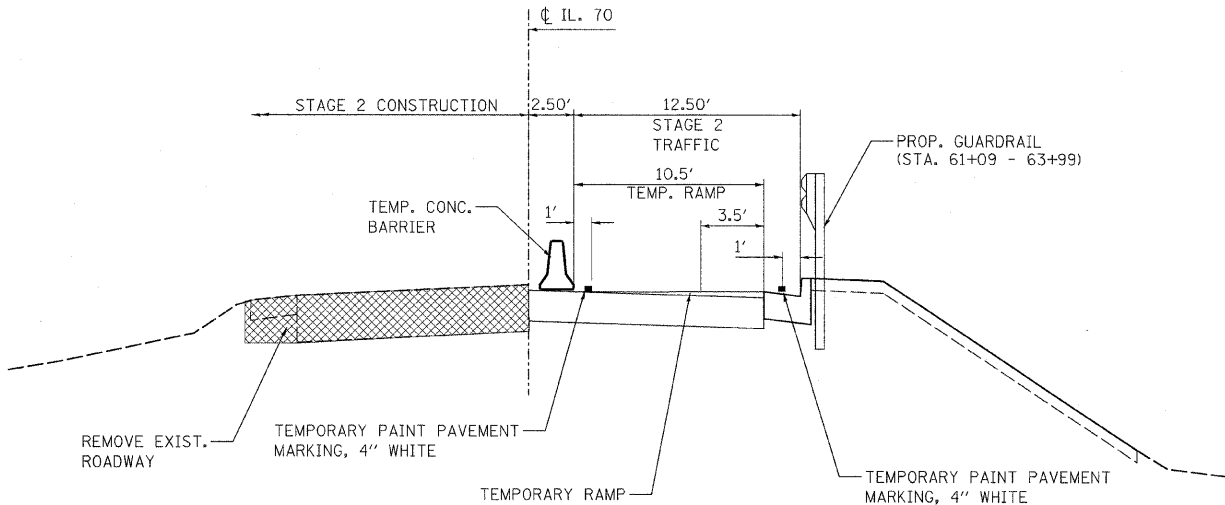
1. INSTALL IDOT STANDARD 701501.

CONSTRUCTION

1. PLACE SURFACE COURSE.
2. INSTALL PERMANENT PAVEMENT MARKINGS ON ROADWAY AND BRIDGE.
3. CONSTRUCT INLETS ON EAST SIDE OF ROADWAY.
4. PERFORM LANDSCAPING OPERATIONS.

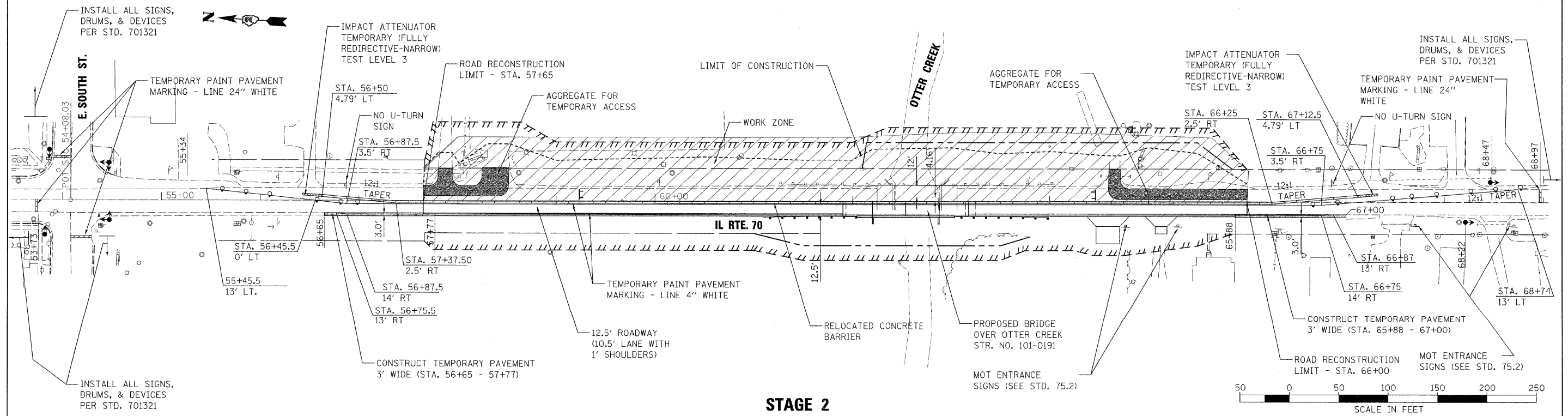
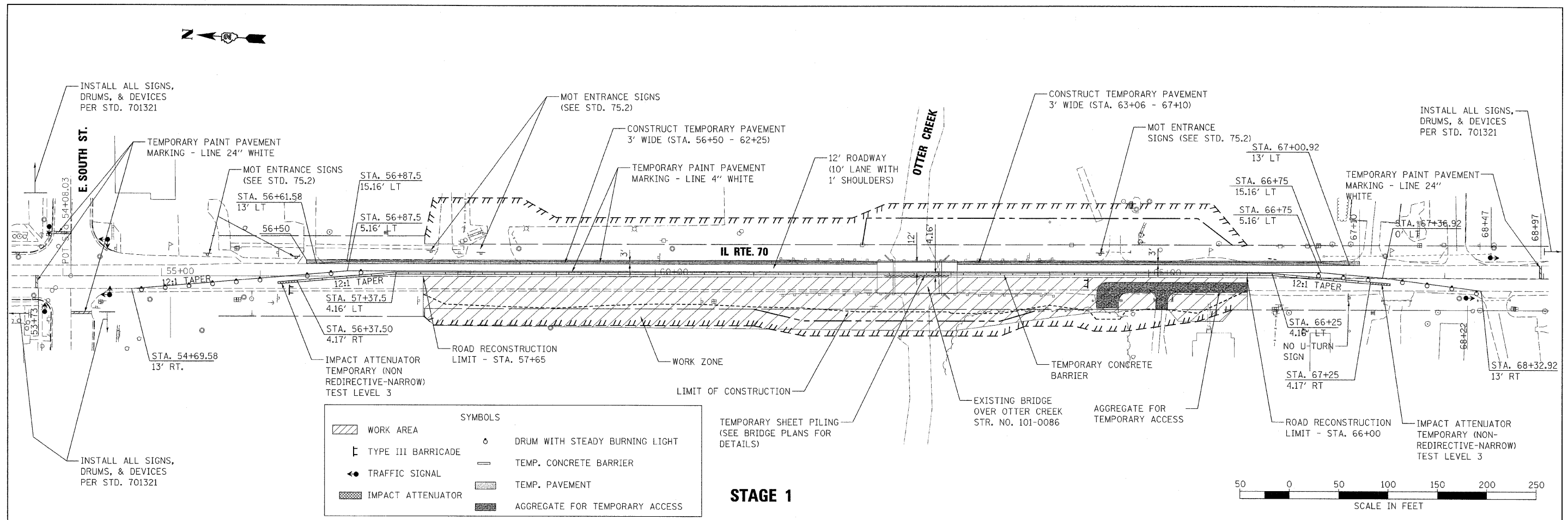


TYPICAL SECTION
STAGE 1



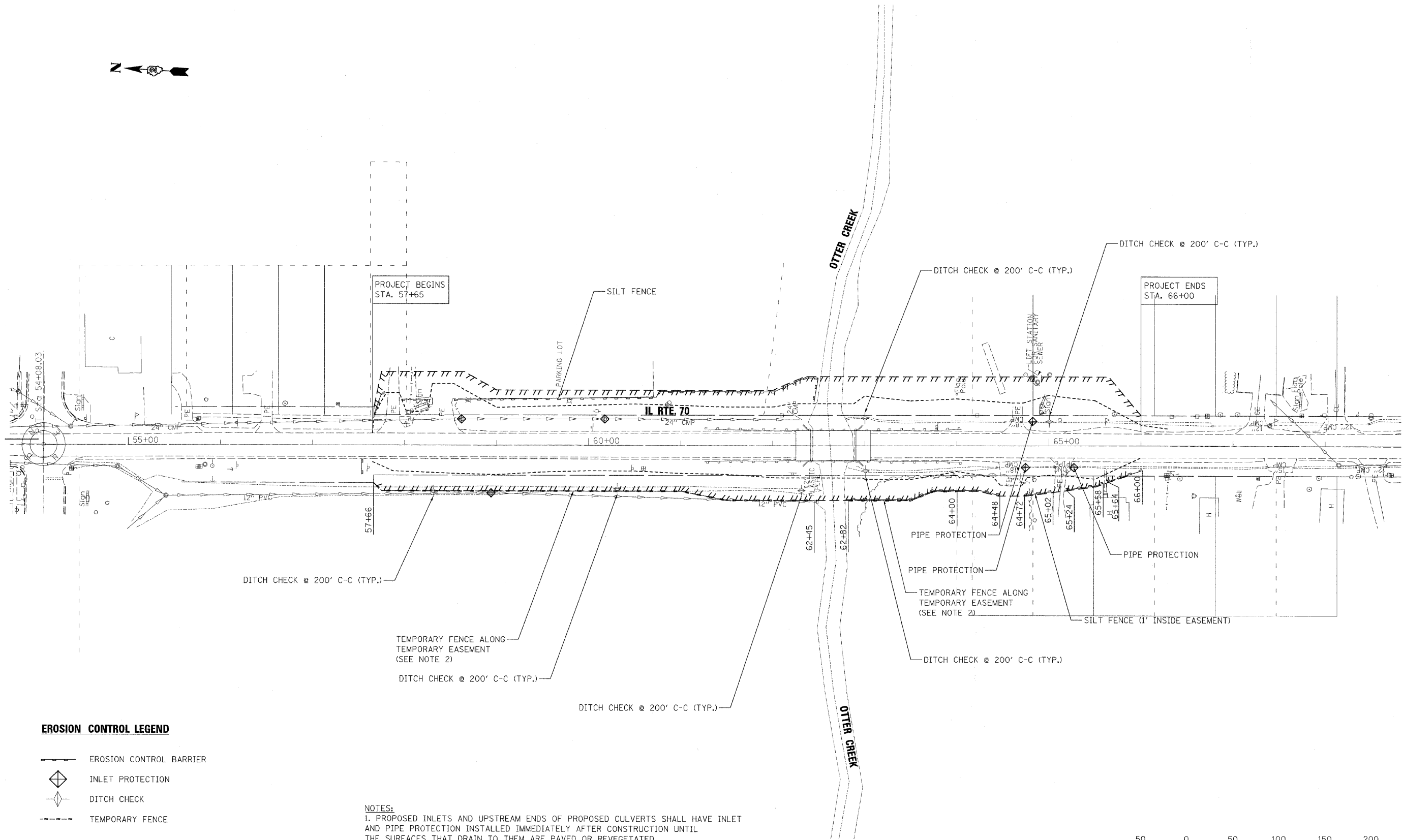
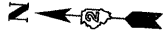
TYPICAL SECTION
STAGE 2

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		DRAWN - AAF	REVISED -			55	(W-1-15)BR-1	WINNEBAGO	59	16				
	PLOT SCALE = 5.0000' / IN.	CHECKED - BAP	REVISED -			CONTRACT NO. 64D22								
	PLOT DATE = 11/30/2009	DATE = 11/30/2009	REVISED -			SCALE: NONE	SHEET NO. 1 OF 2 SHEETS	STA. N/A TO STA. N/A	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					



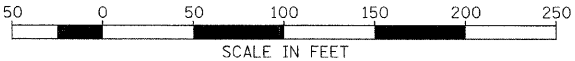
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		DRAWN -	REVISED -												
		CHECKED -	REVISED -												
		DATE - 11/30/2009	REVISED -												

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DESIGN AND CONSULTING ENGINEERS
55 East Jackson Blvd.
Suite 800
Chicago, IL 60604
312-346-4131



- EROSION CONTROL LEGEND**
- EROSION CONTROL BARRIER
 - INLET PROTECTION
 - DITCH CHECK
 - TEMPORARY FENCE

NOTES:
1. PROPOSED INLETS AND UPSTREAM ENDS OF PROPOSED CULVERTS SHALL HAVE INLET AND PIPE PROTECTION INSTALLED IMMEDIATELY AFTER CONSTRUCTION UNTIL THE SURFACES THAT DRAIN TO THEM ARE PAVED OR REVEGETATED.
2. INSTALL TEMPORARY FENCE ALONG THE TEMPORARY EASEMENT WITHIN THE DURAND SCHOOL DISTRICT PROPERTY. SEE THE PLAN AND PROFILE SHEETS FOR THE TEMPORARY EASEMENT LOCATIONS.

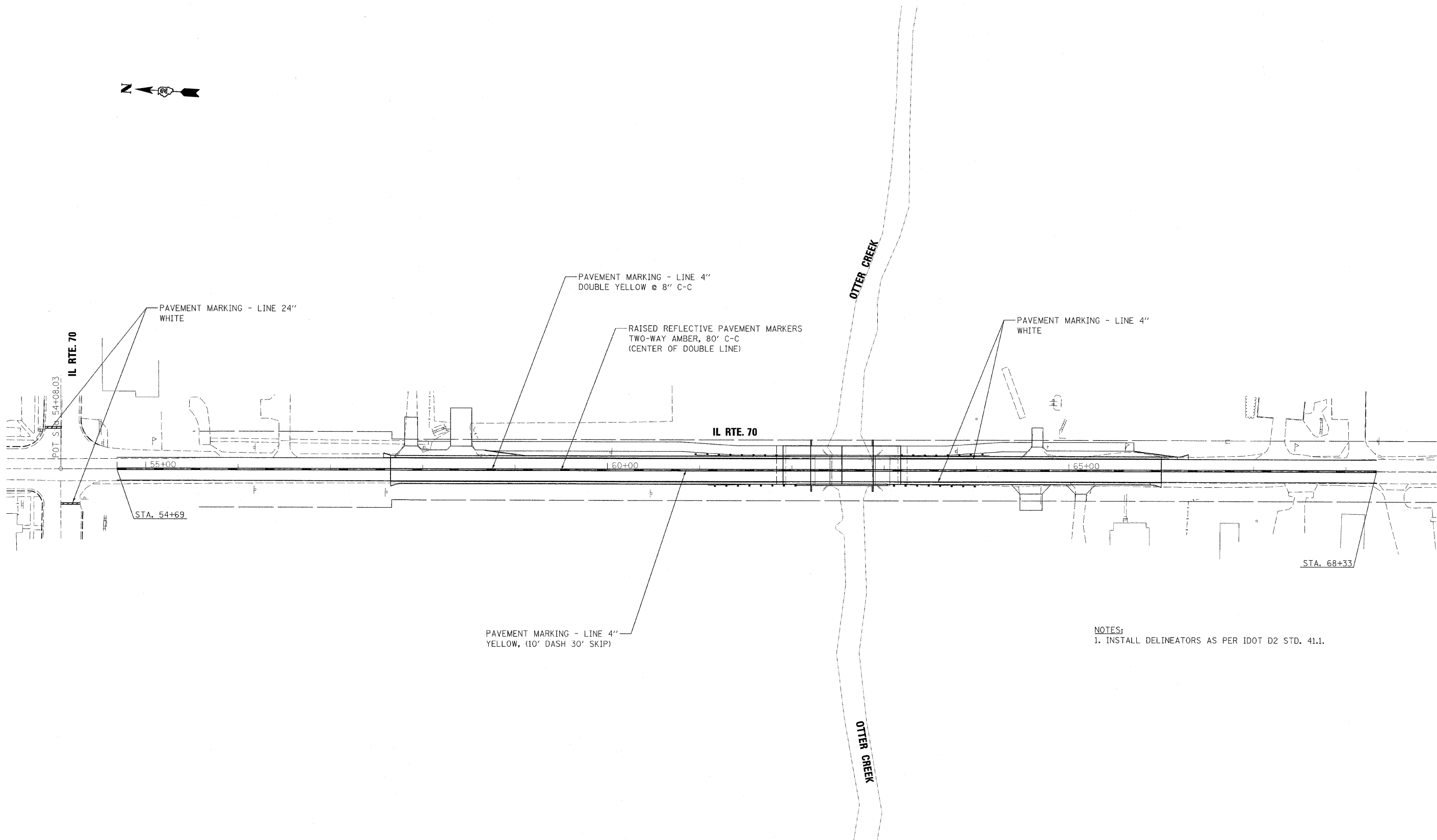


HOH HARRY O. HEFFER ASSOCIATES, INC. DESIGN AND CONSULTING ENGINEERS 85 East Jackson Blvd. Suite 800 Chicago, IL 60604 312-546-4131		PROJECT NUMBER 2944	
F.A.P. RTE. 55	SECTION (W-1-15d)BR-1	COUNTY WINNEBAGO	TOTAL SHEETS 59
SCALE: 1" = 50'		SHEET NO. 18	
SHEET NO. 1 OF 1 SHEETS		CONTRACT NO. 64D22	
STA. 57+65 TO STA. 66+00		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

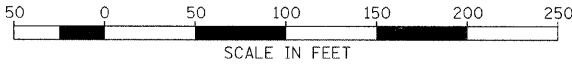
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	PLOT DATE = 11/30/2009	DATE = 11/30/2009	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL. ROUTE 70 OVER OTTER CREEK
EROSION AND SEDIMENT CONTROL PLAN**



NOTES:
1. INSTALL DELINEATORS AS PER IDOT D2 STD. 41.1.



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PROJECT
NUMBER
2944

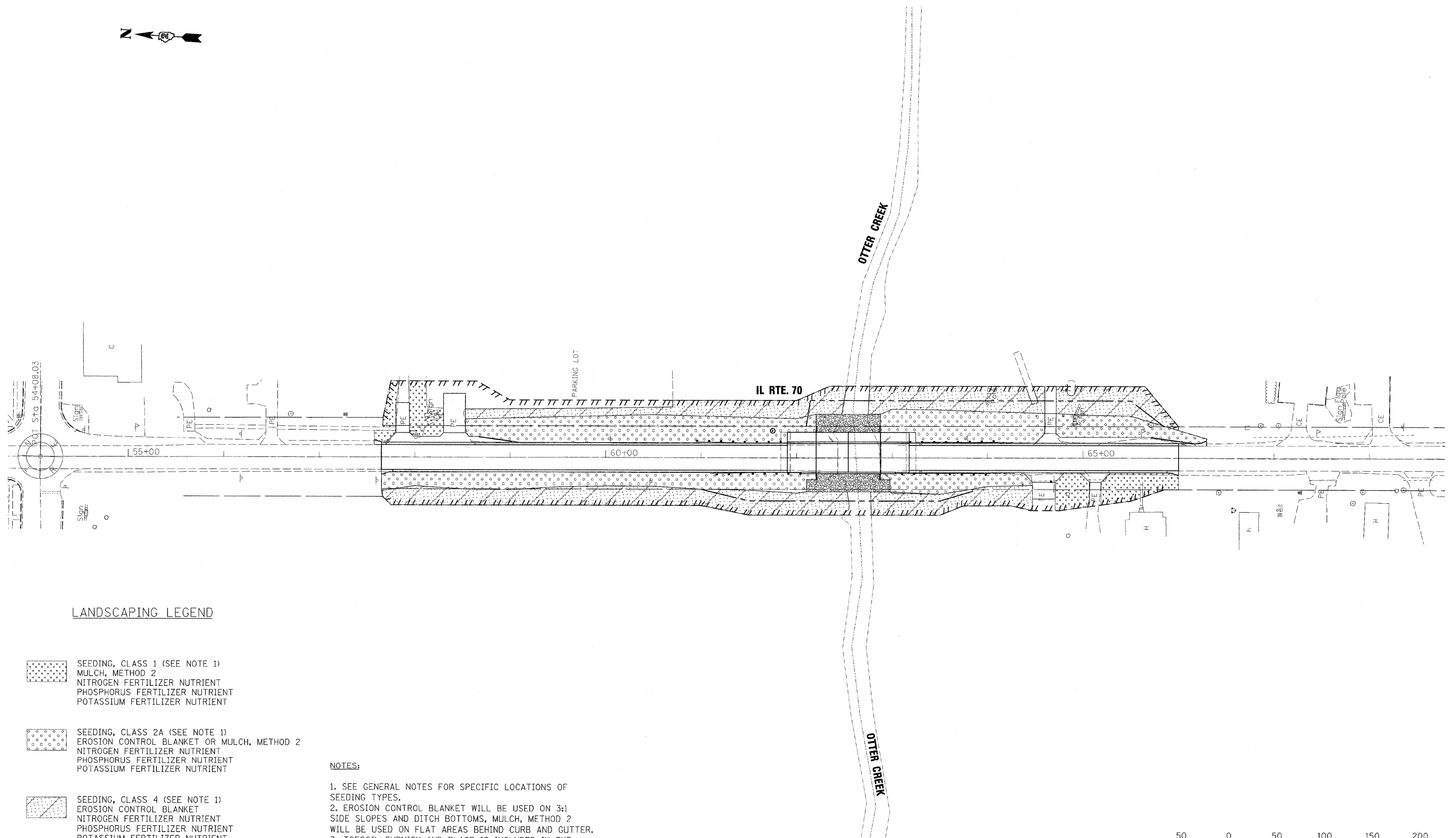
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	PLOT DATE = 11/30/2009	DATE = 11/30/2009	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 70 OVER OTTER CREEK
PAVEMENT MARKING PLAN

SCALE: 1" = 50' SHEET NO. 1 OF 1 SHEETS STA. 57+65 TO STA. 66+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(W-1-15d)BR-1	WINNEBAGO	59	19
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 64D22		



LANDSCAPING LEGEND



SEEDING, CLASS 1 (SEE NOTE 1)
MULCH, METHOD 2
NITROGEN FERTILIZER NUTRIENT
PHOSPHORUS FERTILIZER NUTRIENT
POTASSIUM FERTILIZER NUTRIENT



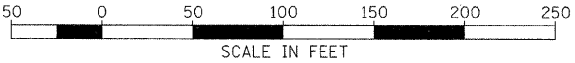
SEEDING, CLASS 2A (SEE NOTE 1)
EROSION CONTROL BLANKET OR MULCH, METHOD 2
NITROGEN FERTILIZER NUTRIENT
PHOSPHORUS FERTILIZER NUTRIENT
POTASSIUM FERTILIZER NUTRIENT



SEEDING, CLASS 4 (SEE NOTE 1)
EROSION CONTROL BLANKET
NITROGEN FERTILIZER NUTRIENT
PHOSPHORUS FERTILIZER NUTRIENT
POTASSIUM FERTILIZER NUTRIENT

NOTES:

1. SEE GENERAL NOTES FOR SPECIFIC LOCATIONS OF SEEDING TYPES.
2. EROSION CONTROL BLANKET WILL BE USED ON 3:1 SIDE SLOPES AND DITCH BOTTOMS. MULCH, METHOD 2 WILL BE USED ON FLAT AREAS BEHIND CURB AND CUTTER.
3. TOPSOIL FURNISH AND PLACE IS INCLUDED IN THE COST OF EARTH EXCAVATION (SEE GENERAL NOTES).
4. FERTILIZER NUTRIENTS ARE INCLUDED IN THE COST OF SEEDING (SEE GENERAL NOTES).



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PROJECT
NUMBER
2944

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(W-1-15d)BR-1	WINNEBAGO	59	20
CONTRACT NO. 64D22				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

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	PLOT DATE = 11/30/2009	DATE = 11/30/2009	REVISED -

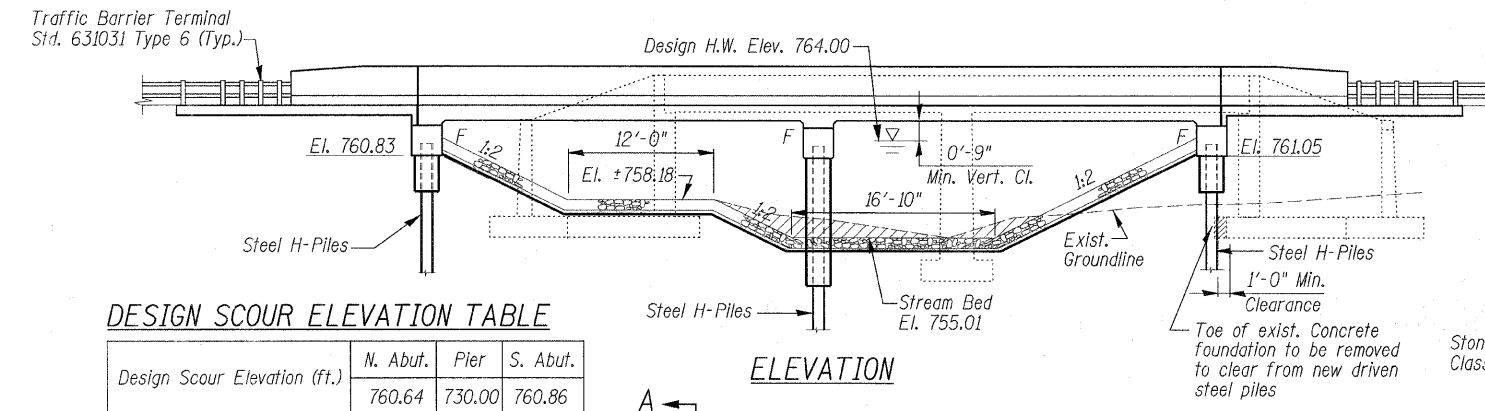
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. ROUTE 70 OVER OTTER CREEK
LANDSCAPING PLAN

SCALE: 1" = 50' SHEET NO. 1 OF 1 SHEETS STA. 57+65 TO STA. 66+00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

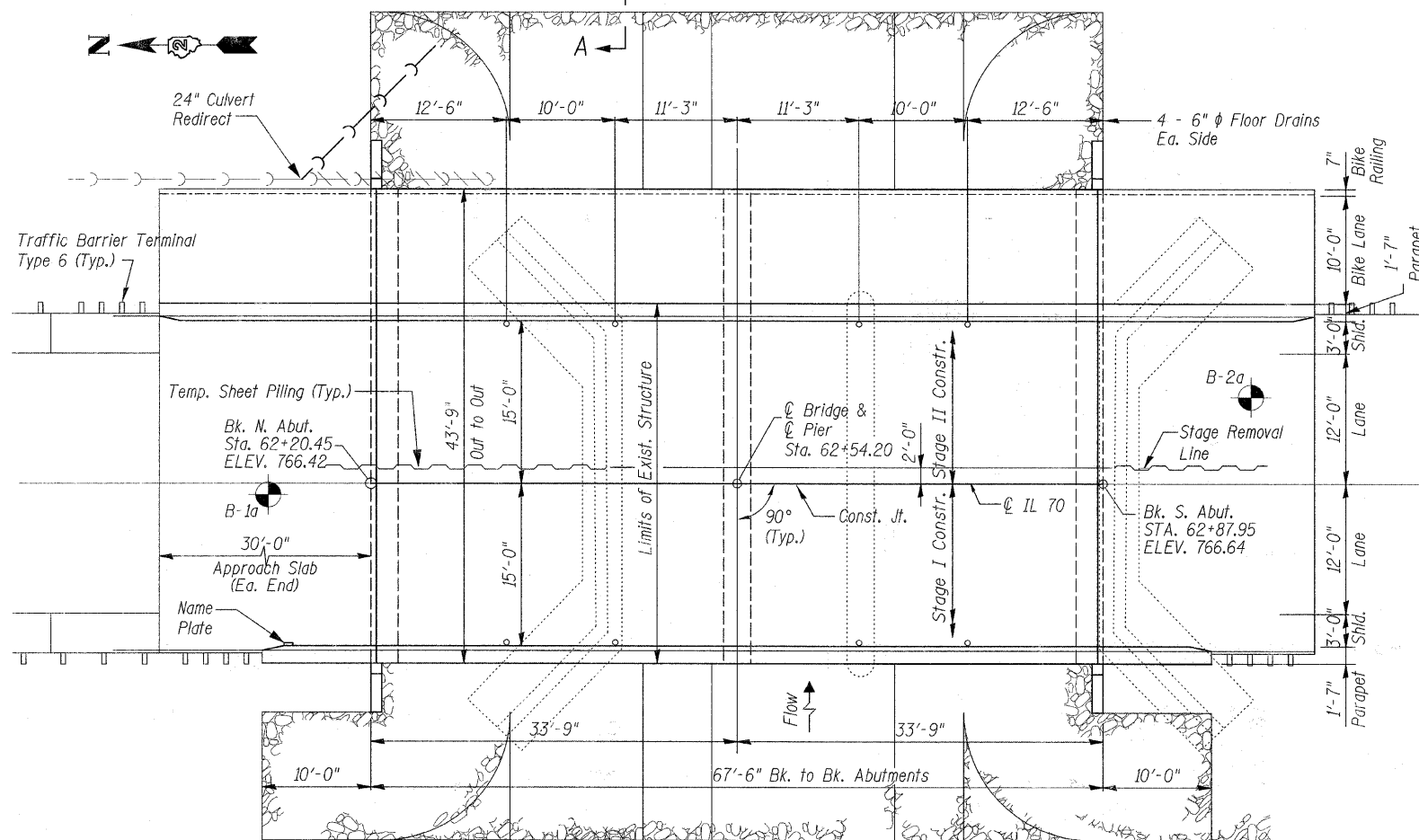
B.M. #401: Chiseled square on concrete lift station west side of manhole located S.E. of bridge, El. 772.498
Existing Structure: S.N. 101-0086 originally constructed in 1923. The bridge was reconstructed in 1971 and resurfaced in 1996. The existing structure is a two span 17" PPC deck bridge with a length of 49'-2 1/2"
B-B of abutments and a width of 32'-4" F-F of steel railings. The bridge structure will be removed and replaced utilizing stage construction.
No Salvage.



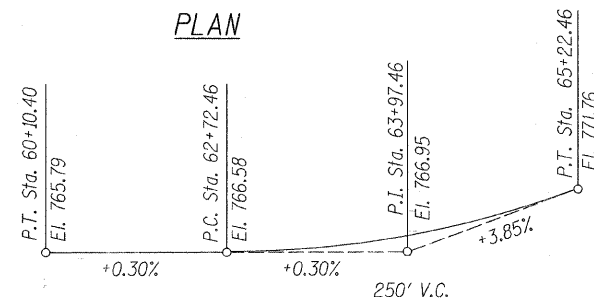
DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	N. Abut.	Pier	S. Abut.
	760.64	730.00	760.86

ELEVATION



PLAN



PROFILE GRADE

WATERWAY INFORMATION

Flood		Freq. Yr.	Discharge C.F.S.	Opening Sq. ft	Nat. H.W.E. ft.	Head - ft.	Headwater Elev. - El.
				Exist. Prop.	Exist. Prop.	Exist. Prop.	Exist. Prop.
Design		50	3240	329 344	764.0	3.7 3.4	767.7 767.4
Base		100	3800	343 344	764.3	3.0 3.1	767.3 767.4
Exist. Overtop		15	2200	301	763.4	3.0	766.4
Prop. Overtop		20	2300	321	763.6	2.8	766.4

SECTION THRU INTEGRAL ABUTMENT

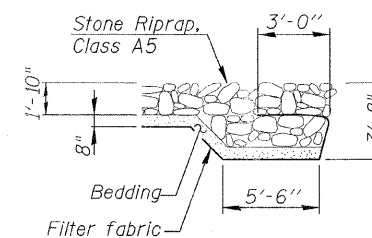
* Included in the cost of Pipe Underdrains for Structures.

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

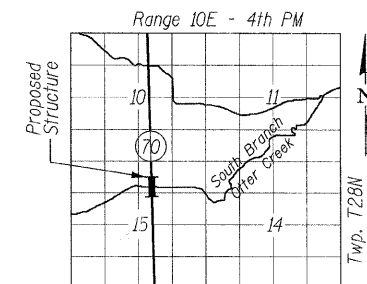
STATION 62+54.20
BUILT 2009 BY
STATE OF ILLINOIS
F.A.S. 55 - SEC. W-1-15d-BR-1
LOADING HL93
STR. NO. 101-0191

NAME PLATE

See Std. 515001



SECTION A-A



LOCATION SKETCH

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 Sec. (S_{D1}) = 0.075g
Design Spectral Acceleration at 0.2 Sec. (S_{D5}) = 0.119g
Soil Site Class = D

DESIGN SPECIFICATIONS

2007 AASHTO LRFD Bridge Design Specifications
4th Edition with 2008 Interims

LOADING HL-93

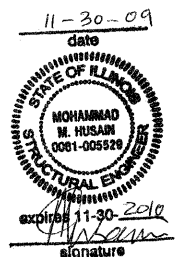
Allow 50#/sq. ft. for future wearing surface

DESIGN STRESSES

Field Units
New Construction
f'c = 3,500 psi
fy = 60,000 psi (Reinf.)

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

Relax E. Anderson (T)P
ENGINEER OF BRIDGES AND STRUCTURES



GENERAL PLAN
AND ELEVATION
IL 70 OVER SOUTH BRANCH
OF OTTER CREEK
FAS ROUTE 55 (IL 70)
SEC. (W-1-15d)BR-1
WINNEBAGO COUNTY
STA. 62+54.20
STRUCTURE NO. 101-0191

LEGEND:

B-1a = Boring No. 1 a

DESIGNED	MMH
CHECKED	RAD
DRAWN	R.VEJAR
CHECKED	RAD

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Chicago, Illinois 60604
312.346.8131
PROJECT # 2945

SHEET NO.	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	55	(W-1-15d)BR-1	WINNEBAGO	59	21
CONTRACT NO. 64D22					
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
4. The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.
5. Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure. The Contractor shall sawcut the upper portion of the existing abutment at the stage removal line before Stage I removal to ensure the remaining portion will not be prematurely damaged.
6. The removal of superstructure, abutments, wingwalls, sidewalks, parapets, fence, Pier, rail and all other attached appurtenances shall be included in "Removal of Existing Structures".
7. The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of false work, in addition to allowance for dead load deflection. Forms for deck slab shall be removed prior to placement of bridge approach pavement.
8. If a portion of the pier wall or concrete encasement is underwater, reinforcement may be placed underwater in to forms. Concrete shall be tremied according to Article 503.08 of the Standard Specifications to an elevation of 1'-0" above the water line at the time of construction.
9. Slip forming of the parapets is not allowed.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures No. 1	Each	-	-	1
Structure Excavation	Cu. Yd.	-	65	65
Concrete Structures	Cu. Yd.	-	97.4	97.4
Concrete Encasement	Cu. Yd.	-	8.7	8.7
Temporary Sheet Piling	Sq. Ft.	-	496	496
Concrete Superstructure	Cu. Yd.	285.5	-	285.5
Name Plates	Each	1	-	1
Bridge Deck Grooving	Sq. Yd.	534	-	534
Protective Coat	Sq. Yd.	755	-	755
Reinforcement Bars, Epoxy Coated	Pound	37,550	43,690	81,240
Furnishing Steel Piles HP-12x53	Foot	-	1,508	1,508
Driving Piles	Foot	-	1,508	1,508
Test Piles HP-12x53	Each	-	2	2
Bar Splacers	Each	122	274	396
Stone Riprap, Class A5	Sq. Yd.	-	712	712
Porous Granular Embankment (Special)	Cu. Yd.	-	50	50
Pipe Underdrains for Structures, 4"	Foot	-	150	150
Filter Fabric	Sq. Yd.	-	712	712
Geocomposite Wall Drain	Sq. Yd.	-	81	81
Floor Drains	Each	8	-	8
Bicycle Railing	Foot	128	-	128
Parapet Railing	Foot	128	-	128
Underwater Structure Excavation Protection - Location 1	Each	-	1	1

INDEX OF SHEETS

1. General Plan and Elevation
2. General Notes, Index of Sheets & Total Bill of Material
3. Stage Construction Details
4. Temporary Concrete Barrier for Stage Construction
5. Top of Slab Elevations - Sheet 1
6. Top of Slab Elevations - Sheet 2
7. Top of North Approach Slab Elevations
8. Top of South Approach Slab Elevations
9. Bridge Approach Slab Details - Sheet 1
10. Bridge Approach Slab Details - Sheet 2
11. Superstructure
12. Superstructure Details - Sheet 1
13. Superstructure Details - Sheet 2
14. Bicycle Railing
15. North Abutment
16. South Abutment
17. Pier
18. Bar Splicer Assembly Details
19. HP Pile Details
20. Soil Borings - Sheet 1
21. Soil Borings - Sheet 2

GENERAL NOTES,
INDEX OF SHEETS AND
TOTAL BILL OF MATERIAL
STRUCTURE NO. 101-0191

DESIGNED	MMH
CHECKED	RAD
DRAWN	R.VEJAR
CHECKED	RAD

HOH

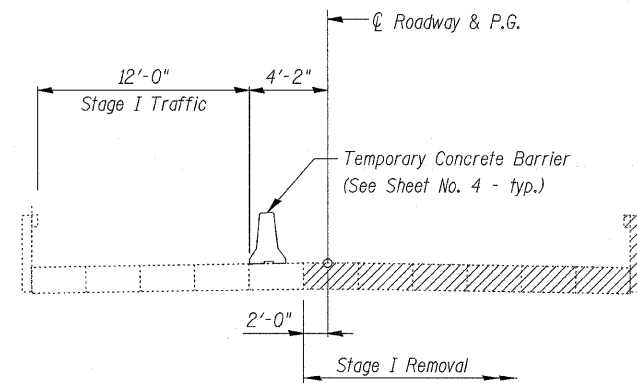
ENGINEER, INC.

55 E. Jackson Blvd.
Chicago, Illinois 60604
312.346.8131

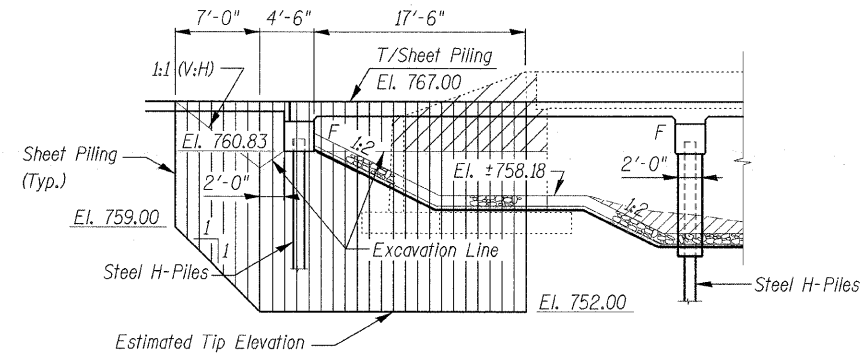
PROJECT # 2945

SHEET NO. 2	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	55	(W-1-15d)BR-1	WINNEBAGO	59	22
21 SHEETS			CONTRACT NO. 64D22		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT		

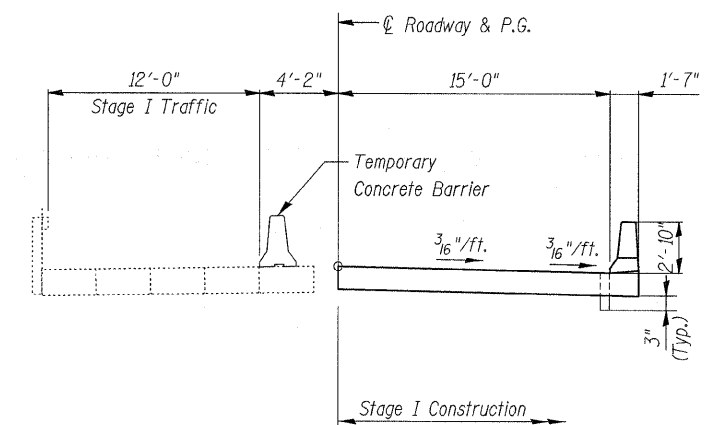
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



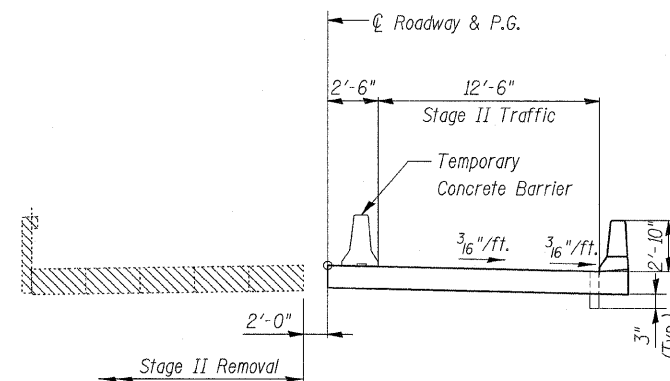
STAGE I REMOVAL
(Looking South)



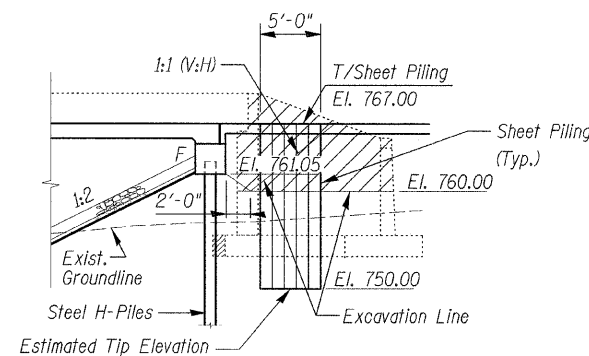
**NORTH ABUTMENT
TEMPORARY SHEET PILING**



STAGE I CONSTRUCTION



STAGE II REMOVAL



**SOUTH ABUTMENT
TEMPORARY SHEET PILING**

NOTE:
Hatched areas indicate removal
of Existing Structure.

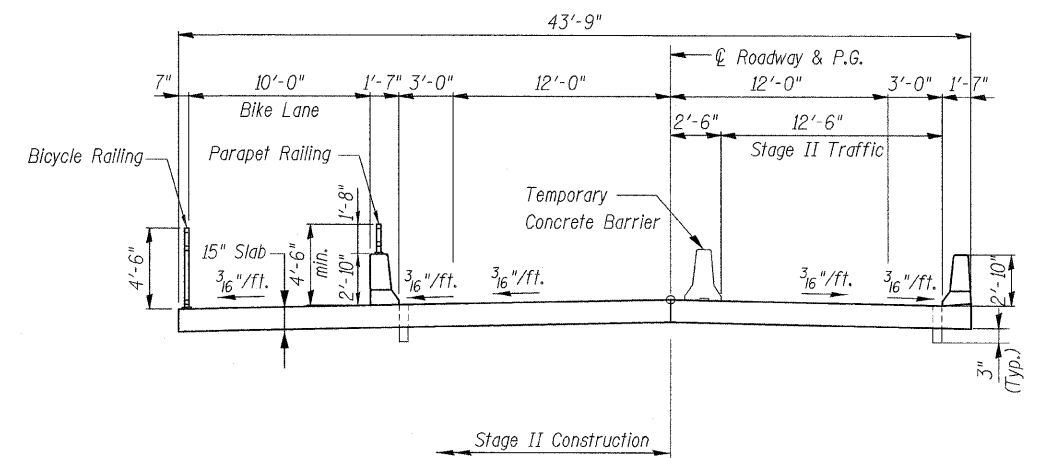
Min. Section Modulus of Sheet Piling = 4.50 in³/ft.
Min. Embedment depth - N. Abut. = 9'-0"
Min. Embedment depth - S. Abut. = 10'-0"
Required Temporary Sheet Piling = 496 Sq.Ft.
(Total for both Abutments)

NOTES

1. If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.
2. The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.

DESIGNED	MMH
CHECKED	RAD
DRAWN	R.VEJAR
CHECKED	RAD

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PROJECT # 2945

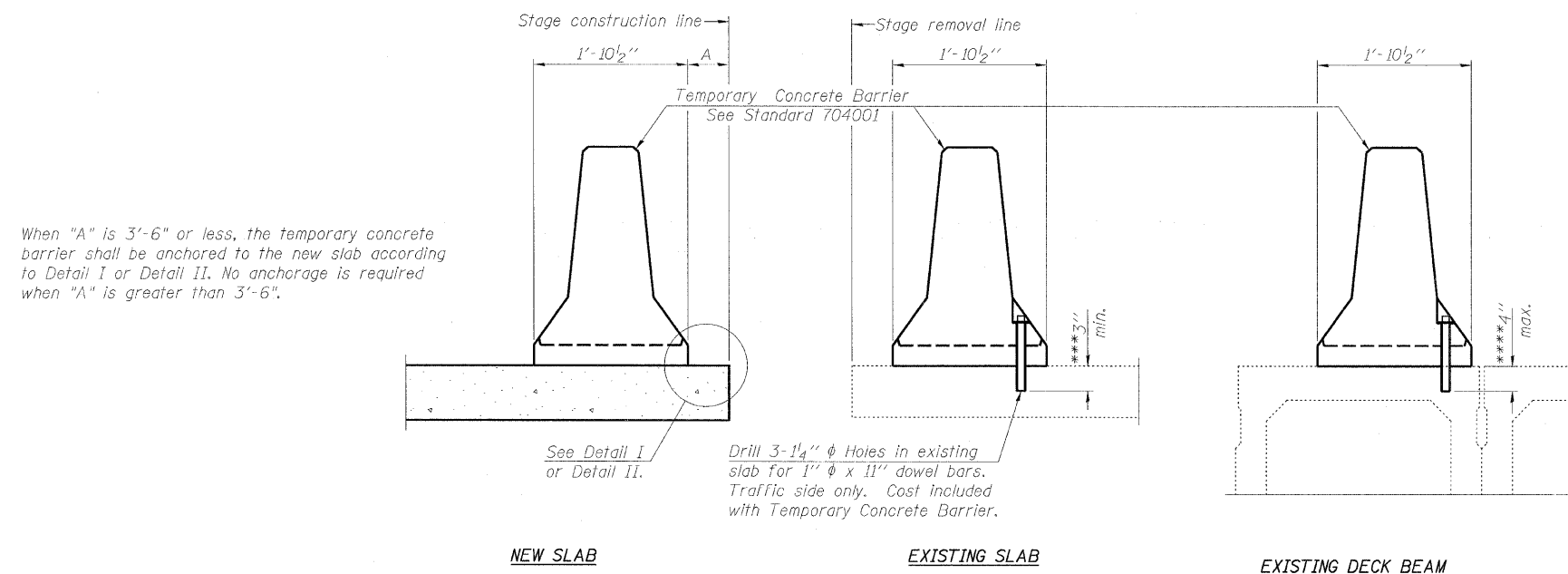


STAGE II CONSTRUCTION

**STAGE CONSTRUCTION
DETAILS
STRUCTURE NO. 101-0191**

SHEET NO. 3	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	55	(W-1-15d)BR-1	WINNEBAGO	59	23
CONTRACT NO. 64D22					
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

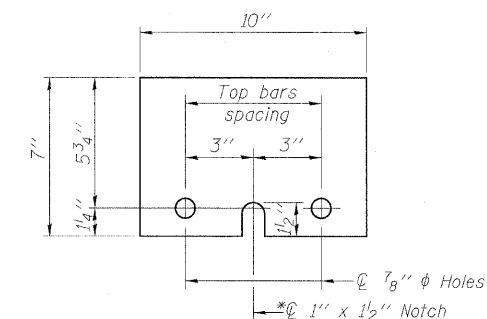
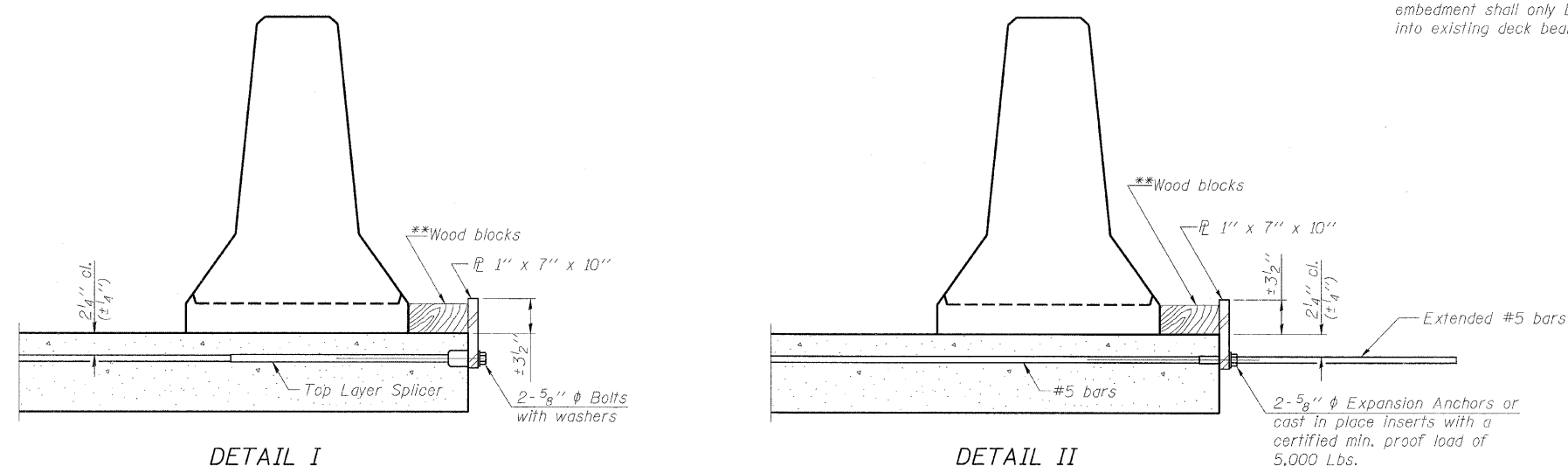


SECTIONS THRU SLAB OR DECK BEAM

- NOTES**
- Detail I - With Bar Splicer or Couplers:
Connect one (1) 1"x7"x10" steel $\bar{P}$ to the top layer of couplers with 2-5/8" ϕ bolts screwed to coupler at approximate $\bar{C}$ of each barrier panel.
- Detail II - With Extended Reinforcement Bars:
Connect one (1) 1"x7"x10" steel $\bar{P}$ to the concrete slab or concrete wearing surface with 2-5/8" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate $\bar{C}$ of each barrier panel.
- Cost of anchorage is included with Temporary Concrete Barrier. The 1" x 7" x 10" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



STEEL RETAINER $\bar{P}$ 1" x 7" x 10"

* Required only with Detail II

**Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

TEMPORARY CONCRETE BARRIER
FOR STAGE CONSTRUCTION
STRUCTURE NO. 101-0191

DESIGNED	MMH
CHECKED	RAD
DRAWN	R.VEJAR
CHECKED	RAD

R-27

10-1-08

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Chicago, Illinois 60604
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PROJECT # 2845

SHEET NO. 4	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	55	(W-1-15d)BR-1	WINNEBAGO	59	24
			CONTRACT NO. 64D22		
			FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST EDGE OF DECK SLAB

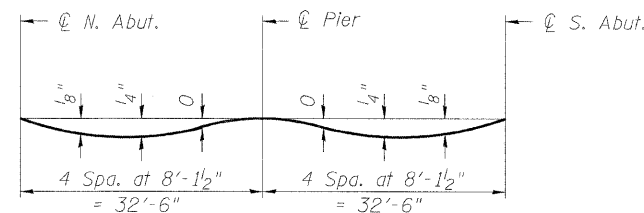
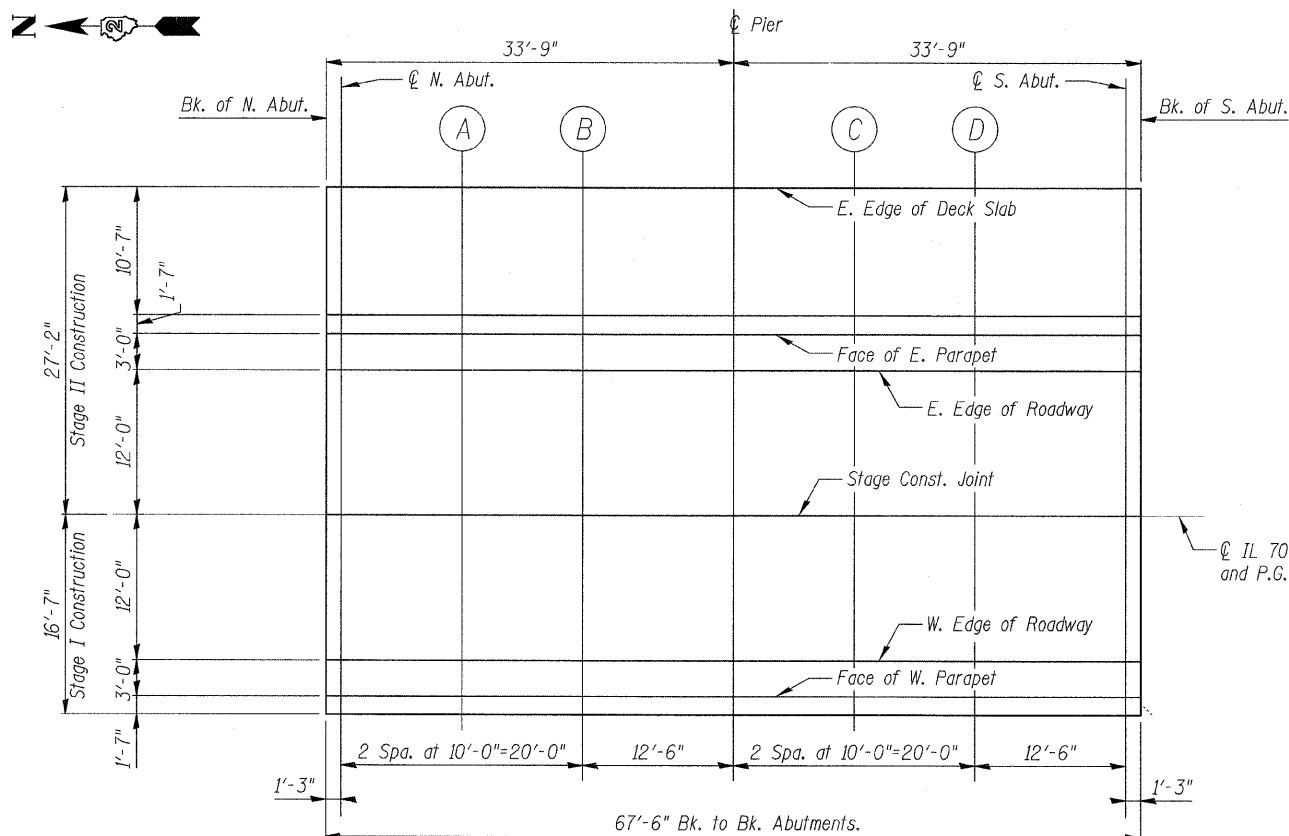
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade El. Adj. for D.L. Deflection
Bk. of N. Abut.	6220.45	-27.17	765.99	765.99
Cl. N. Abutment	6221.70	-27.17	765.99	765.99
A	6231.70	-27.17	766.02	766.04
B	6241.70	-27.17	766.05	766.07
Cl. of Pier	6254.20	-27.17	766.09	766.09
C	6264.20	-27.17	766.12	766.13
D	6274.20	-27.17	766.15	766.17
Cl. S. Abutment	6286.70	-27.17	766.20	766.20
Bk. of S. Abut.	6287.95	-27.17	766.21	766.21

FACE OF E. PARAPET

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade El. Adj. for D.L. Deflection
Bk. of N. Abut.	6220.45	-15.00	766.18	766.18
Cl. N. Abutment	6221.70	-15.00	766.18	766.18
A	6231.70	-15.00	766.21	766.23
B	6241.70	-15.00	766.24	766.26
Cl. of Pier	6254.20	-15.00	766.28	766.28
C	6264.20	-15.00	766.31	766.32
D	6274.20	-15.00	766.34	766.36
Cl. S. Abutment	6286.70	-15.00	766.39	766.39
Bk. of S. Abut.	6287.95	-15.00	766.40	766.40

E. EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade El. Adj. for D.L. Deflection
Bk. of N. Abut.	6220.45	-12.00	766.23	766.23
Cl. N. Abutment	6221.70	-12.00	766.23	766.23
A	6231.70	-12.00	766.26	766.28
B	6241.70	-12.00	766.29	766.30
Cl. of Pier	6254.20	-12.00	766.33	766.33
C	6264.20	-12.00	766.36	766.36
D	6274.20	-12.00	766.39	766.41
Cl. S. Abutment	6286.70	-12.00	766.44	766.44
Bk. of S. Abut.	6287.95	-12.00	766.45	766.45



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:

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

TOP OF SLAB ELEVATIONS
SHEET 1
STRUCTURE NO. 101-0191

DESIGNED	MMH
CHECKED	RAD
DRAWN	R.VEJAR
CHECKED	RAD

HOH
ENGINEERS, INC.
PROJECT # 2945

PLAN

SHEET NO.	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	55	(W-1-15d)BR-1	WINNEBAGO	59	25
CONTRACT NO. 64D22					
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

P.G. IL. 70 AND STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade El. Adj. for D.L. Deflection
Bk. of N. Abut.	6220.45	0.00	766.41	766.41
Cl. N. Abutment	6221.70	0.00	766.42	766.42
A	6231.70	0.00	766.45	766.46
B	6241.70	0.00	766.48	766.49
Cl. of Pier	6254.20	0.00	766.52	766.52
C	6264.20	0.00	766.55	766.55
D	6274.20	0.00	766.58	766.60
Cl. S. Abutment	6286.70	0.00	766.63	766.63
Bk. of S. Abut.	6287.95	0.00	766.63	766.63

W. EDGE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade El. Adj. for D.L. Deflection
Bk. of N. Abut.	6220.45	12.00	766.23	766.23
Cl. N. Abutment	6221.70	12.00	766.23	766.23
A	6231.70	12.00	766.26	766.28
B	6241.70	12.00	766.29	766.30
Cl. of Pier	6254.20	12.00	766.33	766.33
C	6264.20	12.00	766.36	766.36
D	6274.20	12.00	766.39	766.41
Cl. S. Abutment	6286.70	12.00	766.44	766.44
Bk. of S. Abut.	6287.95	12.00	766.45	766.45

FACE OF W. PARAPET

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade El. Adj. for D.L. Deflection
Bk. of N. Abut.	6220.45	15.00	766.18	766.18
Cl. N. Abutment	6221.70	15.00	766.18	766.18
A	6231.70	15.00	766.21	766.23
B	6241.70	15.00	766.24	766.26
Cl. of Pier	6254.20	15.00	766.28	766.28
C	6264.20	15.00	766.31	766.32
D	6274.20	15.00	766.34	766.36
Cl. S. Abutment	6286.70	15.00	766.39	766.39
Bk. of S. Abut.	6287.95	15.00	766.40	766.40

DESIGNED MMH
CHECKED RAD
DRAWN R.VEJAR
CHECKED RAD

HOH

ENGINEERS, INC.

55 E. Jackson Blvd.
Chicago, Illinois 60604
312.346.8131

PROJECT # 2945

TOP OF SLAB ELEVATIONS
SHEET 2
STRUCTURE NO. 101-0191

SHEET NO. 6	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	55	(W-1-15d)BR-1	WINNEBAGO	59	26
			CONTRACT NO. 64D22		
		FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

E. EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
End of N. Appr. Slab	6190.95	-27.16	765.90
A	6200.95	-27.16	765.93
B	6210.95	-27.16	765.96
End of Appr. Slab N. Abutment	6220.95	-27.16	765.99

FACE OF N.E. PARAPET

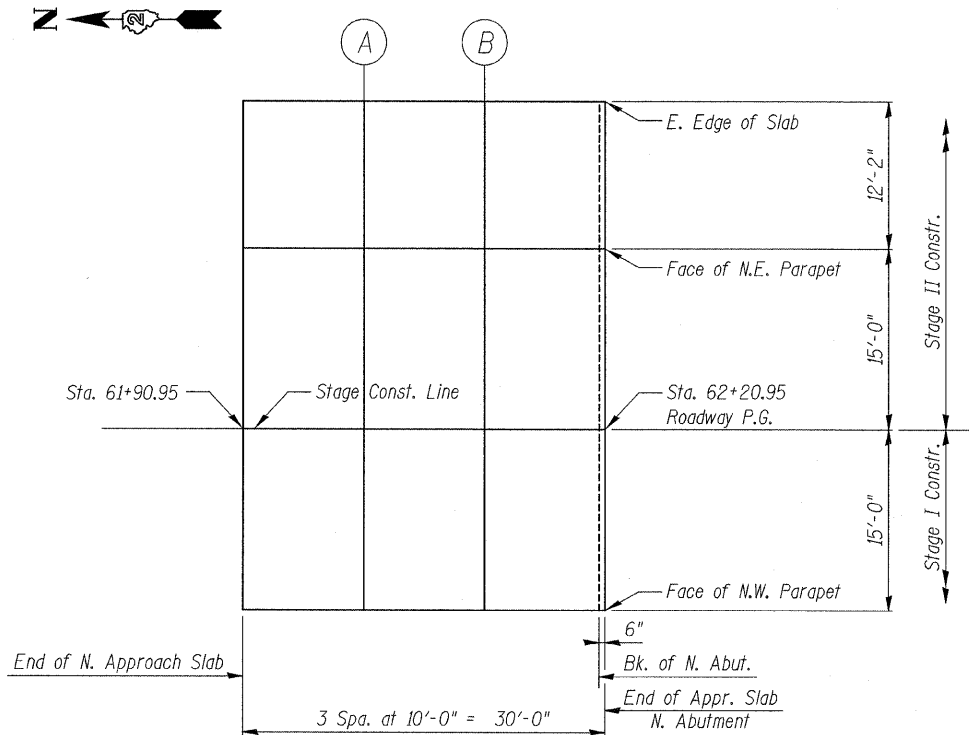
Location	Station	Offset	Theoretical Grade Elevations
End of N. Appr. Slab	6190.95	-15.00	766.09
A	6200.95	-15.00	766.12
B	6210.95	-15.00	766.15
End of Appr. Slab N. Abutment	6220.95	-15.00	766.18

ROADWAY P.G. & STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations
End of N. Appr. Slab	6190.95	0.00	766.33
A	6200.95	0.00	766.36
B	6210.95	0.00	766.39
End of Appr. Slab N. Abutment	6220.95	0.00	766.42

FACE OF N.W. PARAPET

Location	Station	Offset	Theoretical Grade Elevations
End of N. Appr. Slab	6190.950	15.000	766.096
A	6200.950	15.000	766.126
B	6210.950	15.000	766.156
End of Appr. Slab N. Abutment	6220.950	15.000	766.186



PLAN

TOP OF NORTH APPROACH
SLAB ELEVATIONS
STRUCTURE NO. 101-0191

DESIGNED	MMH
CHECKED	RAD
DRAWN	R.VEJAR
CHECKED	RAD

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PROJECT # 2945

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312.346.8131

SHEET NO. 7	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	55	(W-1-15d)BR-1	WINNEBAGO	59	27
CONTRACT NO. 64D22					
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

E. EDGE OF SLAB

Location	Station	Offset	Theoretical Grade Elevations
End of Appr. Slab S. Abutment	6287.45	-27.16	766.21
A	6297.45	-27.16	766.26
B	6307.45	-27.16	766.34
End of S. Appr. Slab	6317.45	-27.16	766.42

FACE OF S.E. PARAPET

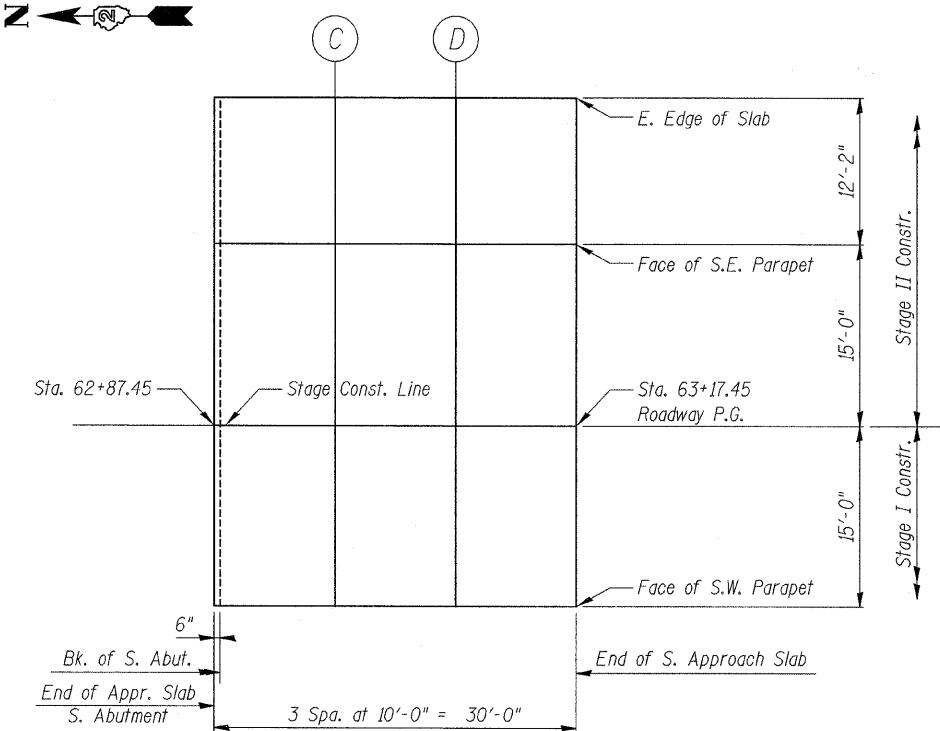
Location	Station	Offset	Theoretical Grade Elevations
End of Appr. Slab S. Abutment	6287.45	-15.00	766.40
A	6297.45	-15.00	766.45
B	6307.45	-15.00	766.53
End of S. Appr. Slab	6317.45	-15.00	766.61

ROADWAY P.G. & STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations
End of Appr. Slab S. Abutment	6287.45	0.00	766.63
A	6297.45	0.00	766.69
B	6307.45	0.00	766.76
End of S. Appr. Slab	6317.45	0.00	766.85

FACE OF S.W. PARAPET

Location	Station	Offset	Theoretical Grade Elevations
End of Appr. Slab S. Abutment	6287.45	15.00	766.40
A	6297.45	15.00	766.45
B	6307.45	15.00	766.53
End of S. Appr. Slab	6317.45	15.00	766.61



PLAN

TOP OF SOUTH APPROACH
SLAB ELEVATIONS
STRUCTURE NO. 101-0191

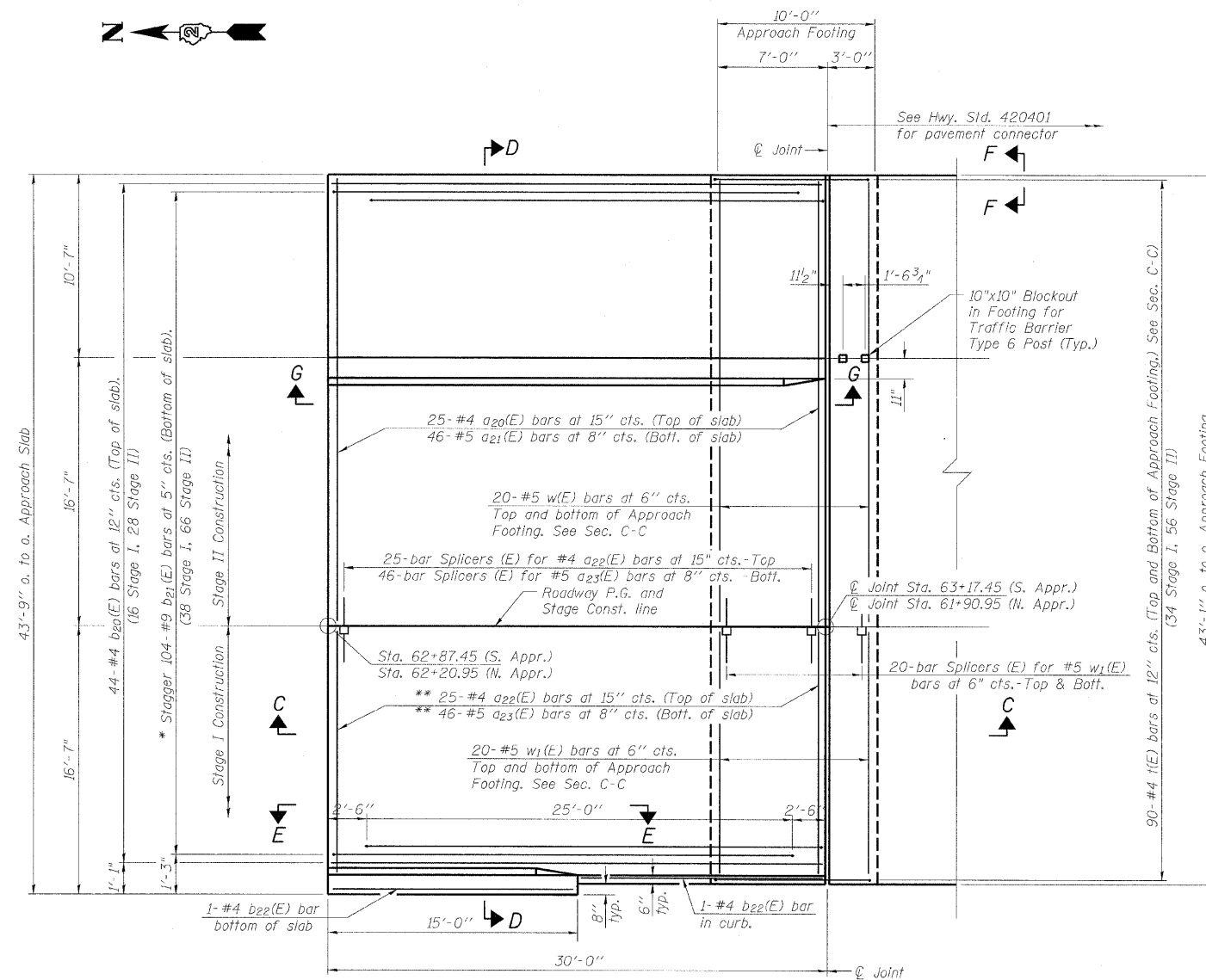
DESIGNED	MMH
CHECKED	RAD
DRAWN	R.VEJAR
CHECKED	RAD

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Chicago, Illinois 60604
312.346.8131
PROJECT # 2045

SHEET NO. 8	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	55	(W-1-15d)BR-1	WINNEBAGO	59	28
CONTRACT NO. 64D22					
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NOTE:
See sheet 10 of 21 for Sections C-C & D-D, View E-E and G-G.



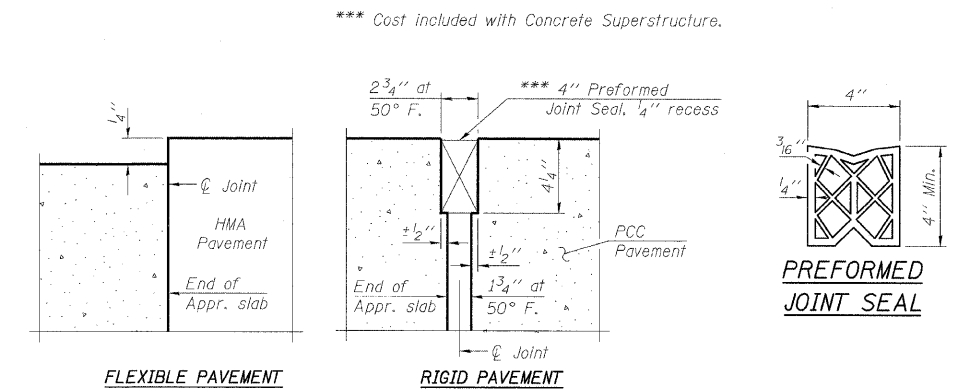
PLAN

* Tilt #9 b₂₁(E) bars as required to maintain clearance.
** Cut to fit at curb.

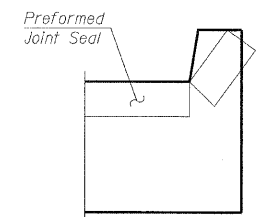
South Approach Slab as shown
North Approach Slab similar
and opposite hand.

DESIGNED	MMH
CHECKED	RAD
DRAWN	R.VEJAR
CHECKED	RAD

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PROJECT # 2945



DETAIL A



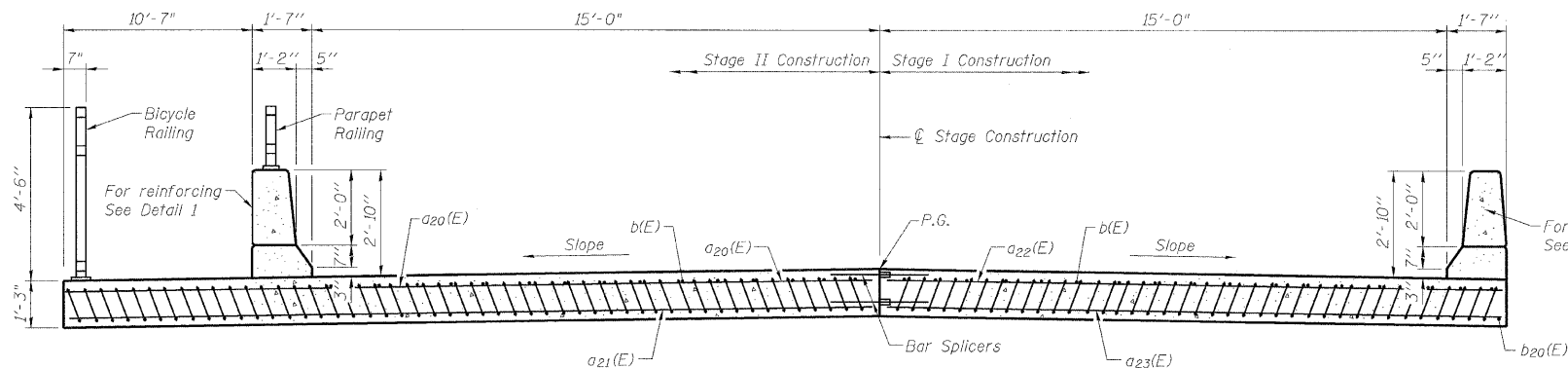
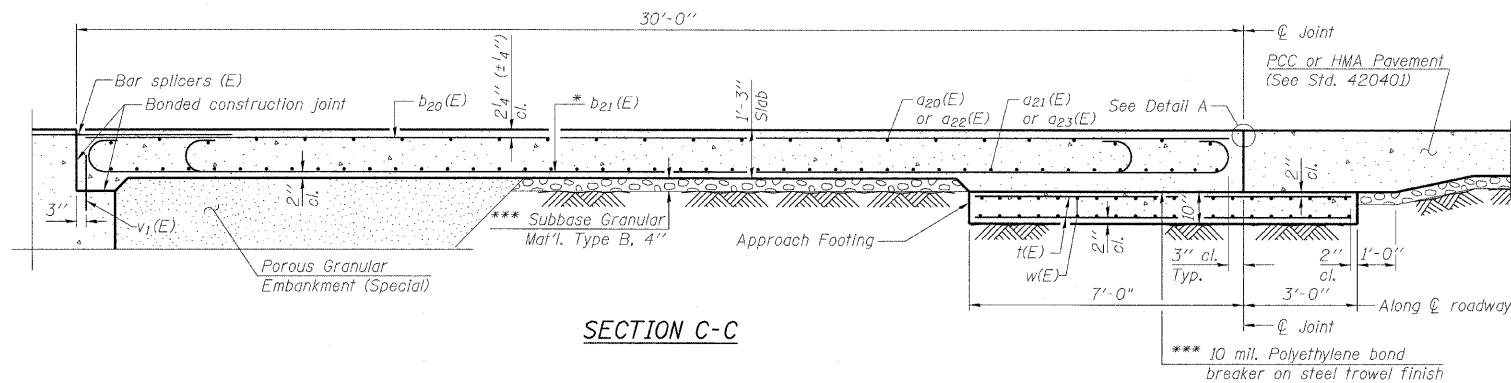
VIEW F-F

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

BRIDGE APPROACH SLAB
DETAILS SHEET 1
STRUCTURE NO. 101-0191

SHEET NO.	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	55	(W-1-15d)BR-1	WINNEBAGO	59	29
CONTRACT NO. 64D22					
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

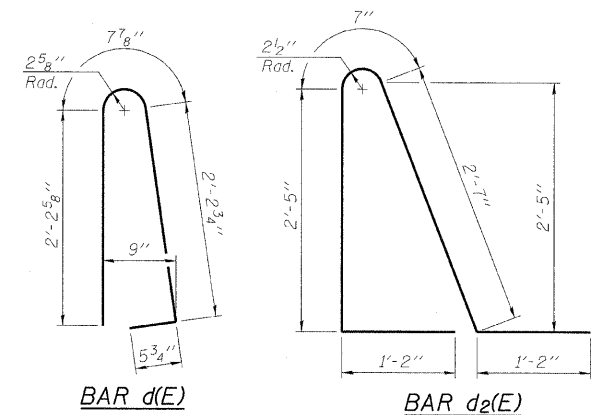


* Tilt #9 $b_1(E)$ bars as required to maintain clearance.

*** Cost included with Concrete Superstructure.

NOTES:

Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
Approach footing concrete shall be paid for as Concrete Structures.
Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
For $v_1(E)$ bar details, see sheet 13 of 21.
The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
For bar splicer details, see sheet 18 of 21.
Cost of excavation for approach footing included with Concrete Structures.
For Porous Granular Embankment (Special) and drainage treatment details, see sheet 1 of 21.

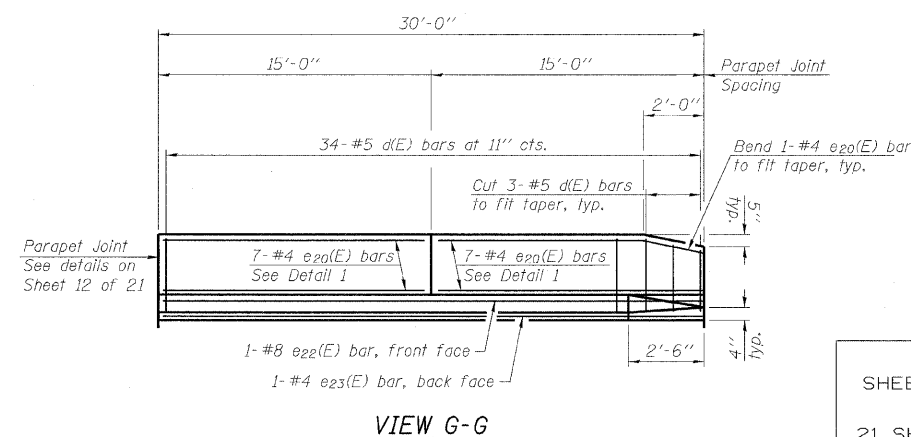
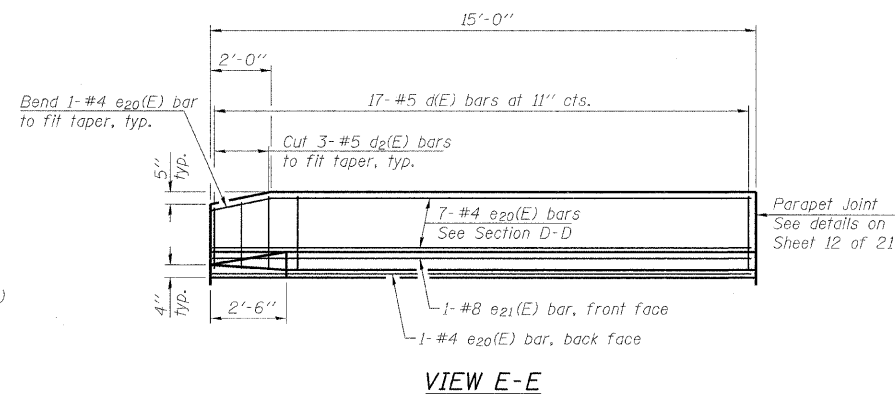
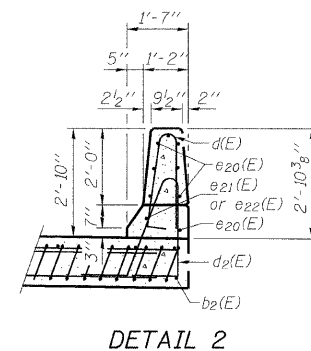
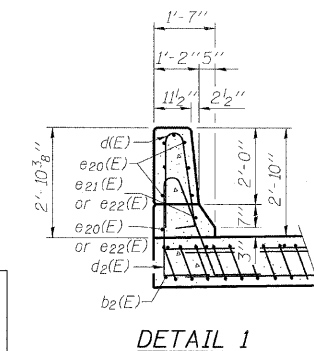
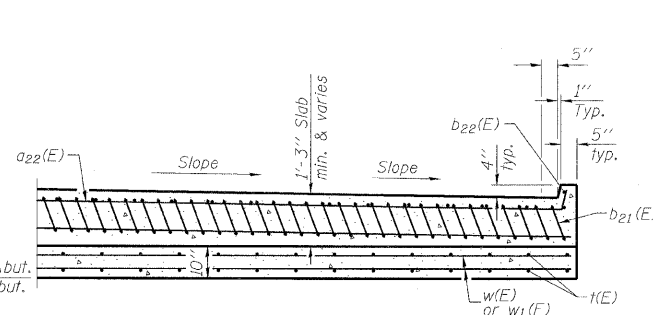
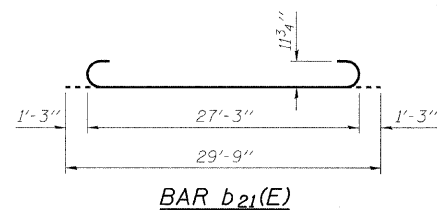
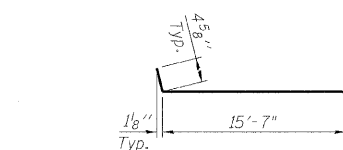


TWO APPROACHES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$a_{20}(E)$	50	#4	26'-10"	
$a_{21}(E)$	92	#5	26'-10"	
$a_{22}(E)$	50	#4	15'-11"	
$a_{23}(E)$	92	#5	15'-7"	
$b_{20}(E)$	88	#4	29'-8"	
$b_{21}(E)$	208	#9	29'-9"	
$b_{22}(E)$	4	#4	14'-8"	
$d(E)$	102	#5	5'-7"	
$d_2(E)$	102	#5	7'-11"	
$e_{20}(E)$	42	#4	14'-8"	
$e_{21}(E)$	2	#8	14'-8"	
$e_{22}(E)$	2	#8	29'-8"	
$e_{23}(E)$	2	#4	29'-8"	
$t(E)$	180	#4	9'-8"	
$w(E)$	80	#5	26'-2"	
$w_1(E)$	80	#5	15'-7"	
Concrete Superstructure		Cu. Yd.	120.1	
Concrete Structures		Cu. Yd.	26.2	
Reinforcement Bars, Epoxy Coated		Pound	35,120	

For Bar Splicers, see Sheet 18 Of 21.

BRIDGE APPROACH SLAB
DETAILS SHEET 2
STRUCTURE NO. 101-0191



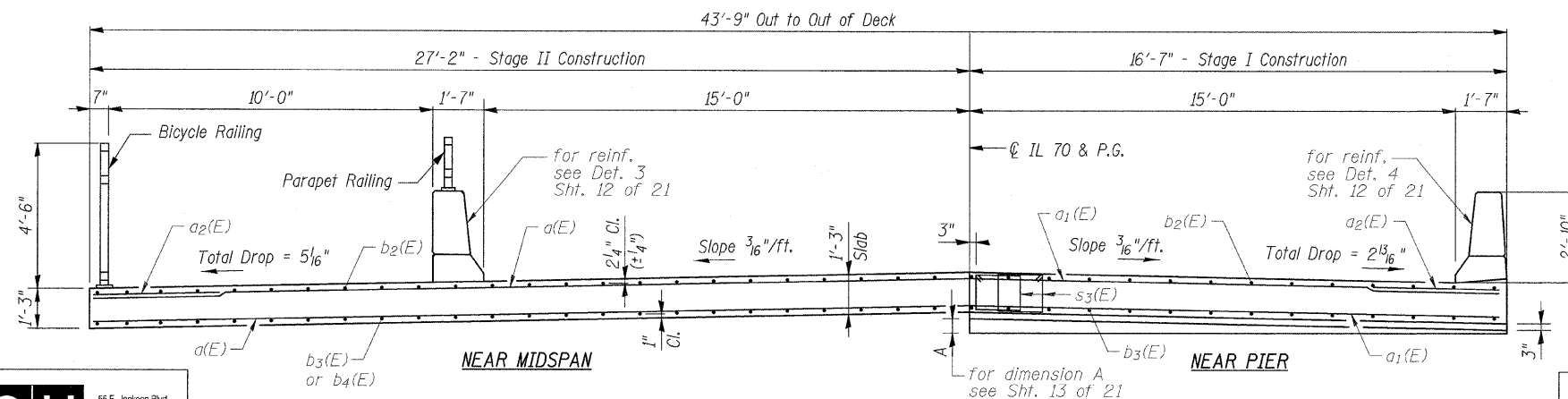
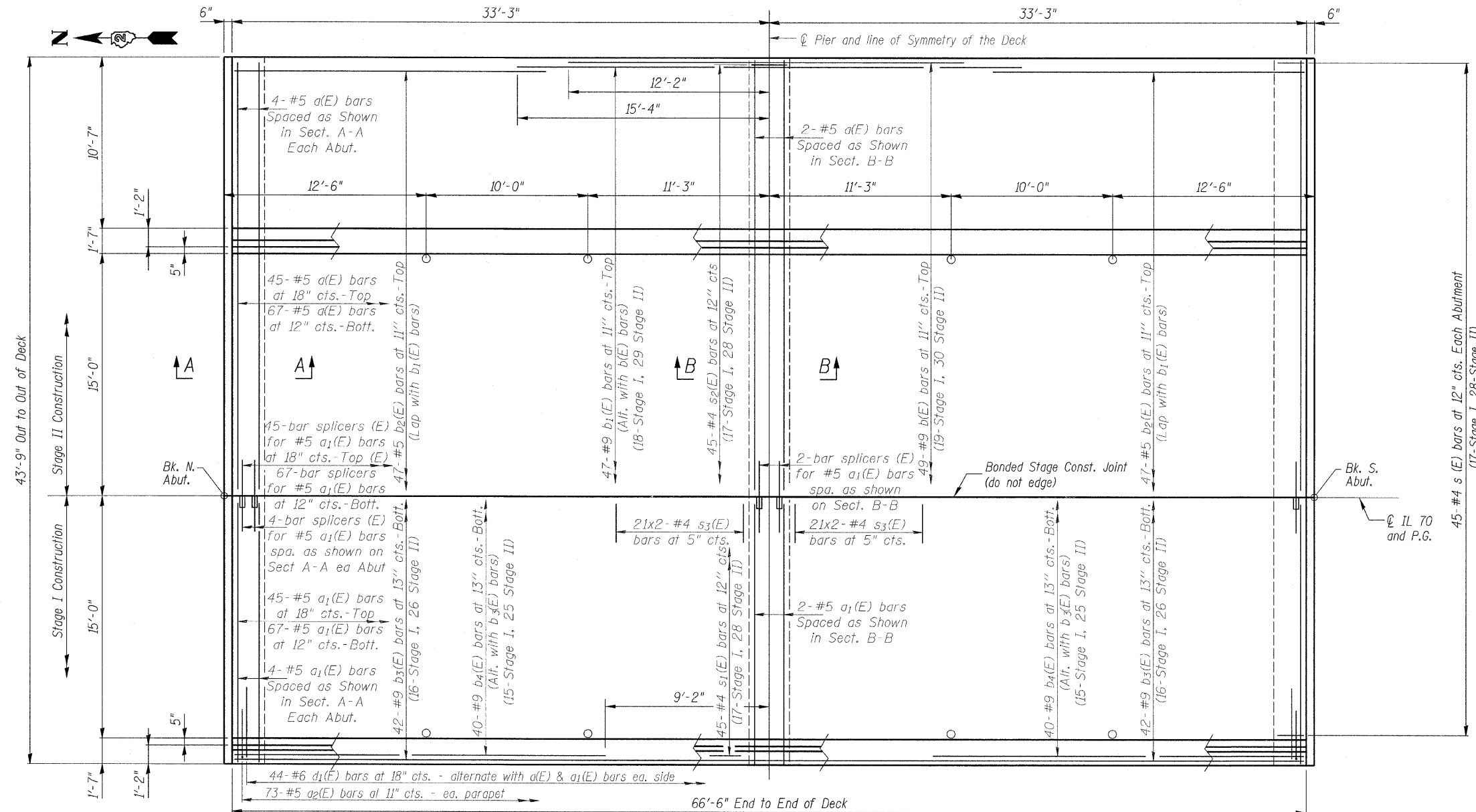
DESIGNED	MMH
CHECKED	RAD
DRAWN	R.VEJAR
CHECKED	RAD

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PROJECT # 2945

SHEET NO.	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	55	(W-1-15d)BR-1	WINNEBAGO	59	30
			CONTRACT NO. 64D22		
			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NOTE:
for Section A-A & Section B-B
see Sht. 13 of 21.



DESIGNED	MMH
CHECKED	RAD
DRAWN	R.VEJAR
CHECKED	RAD

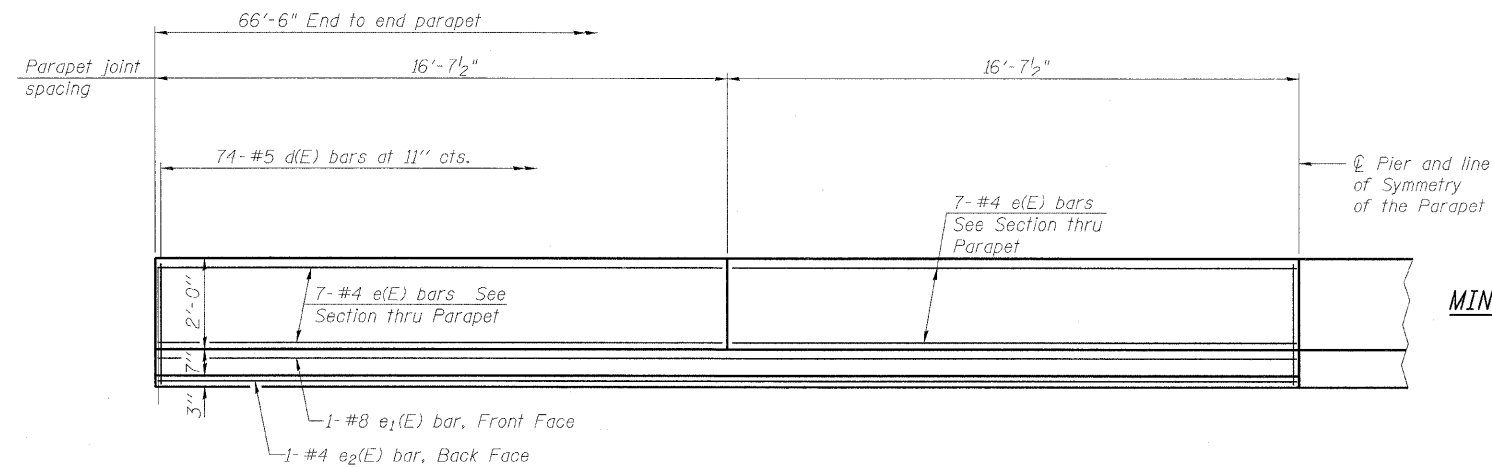
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PROJECT # 2945

SUPERSTRUCTURE
STRUCTURE NO. 101-0191

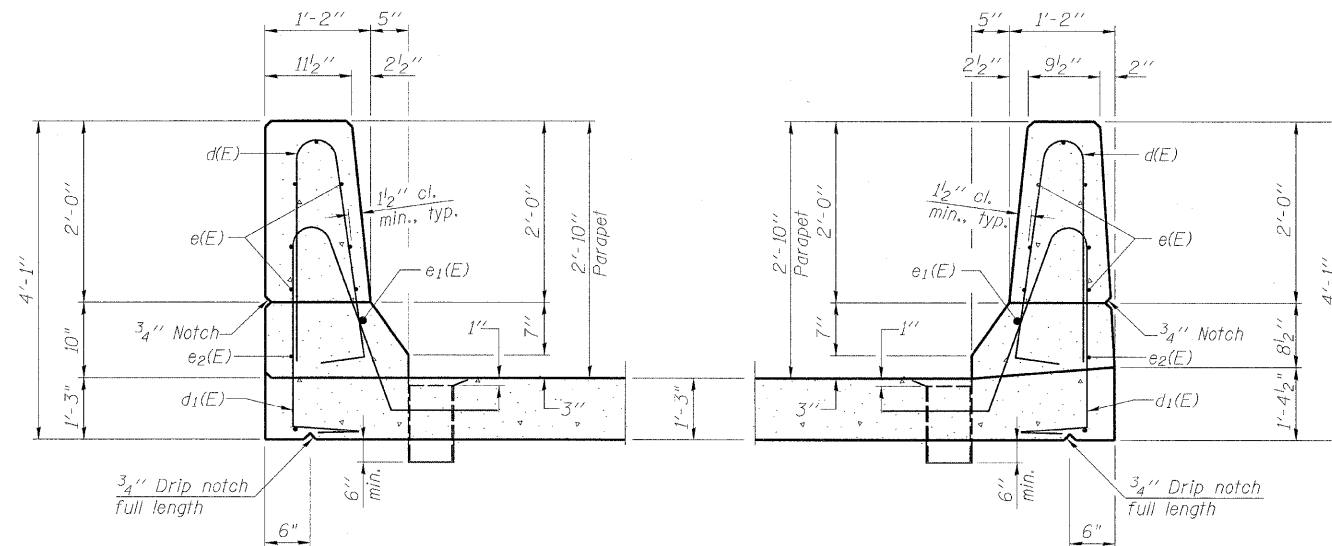
SHEET NO.	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	55	(W-1-15d)BR-1	WINNEBAGO	59	31
CONTRACT NO. 64D22					
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



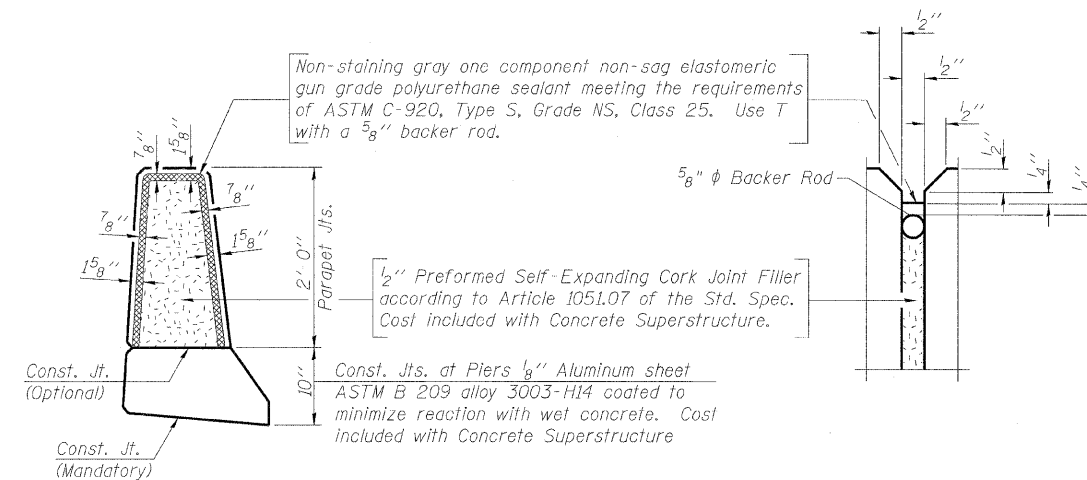
MINIMUM BAR LAP
(Parapet)
#4 bar = 1'-4"
#8 bar = 3'-5"

INSIDE ELEVATION OF PARAPET
(East Parapet is shown, West Parapet similar, opposite hand)



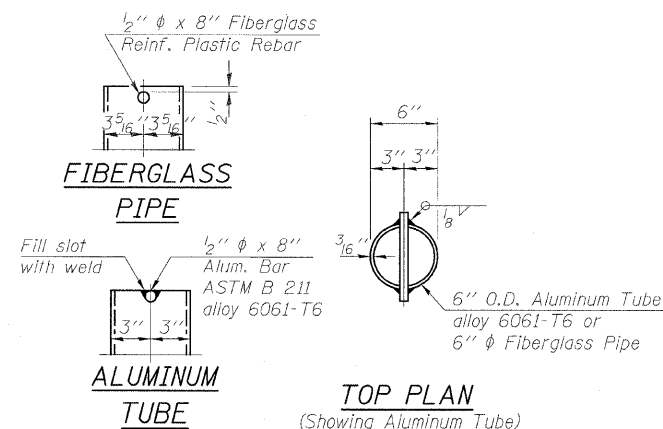
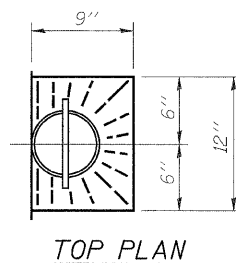
DETAIL 3
SECTION THRU PARAPET

DETAIL 4
SECTION THRU PARAPET



PARAPET JOINT DETAILS

Note:
The exterior surfaces of the floor drains shall be coated or pigmented by the manufacturer with a color that matches the concrete. Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.



SUPERSTRUCTURE DETAILS
SHEET 1
STRUCTURE NO. 101-0191

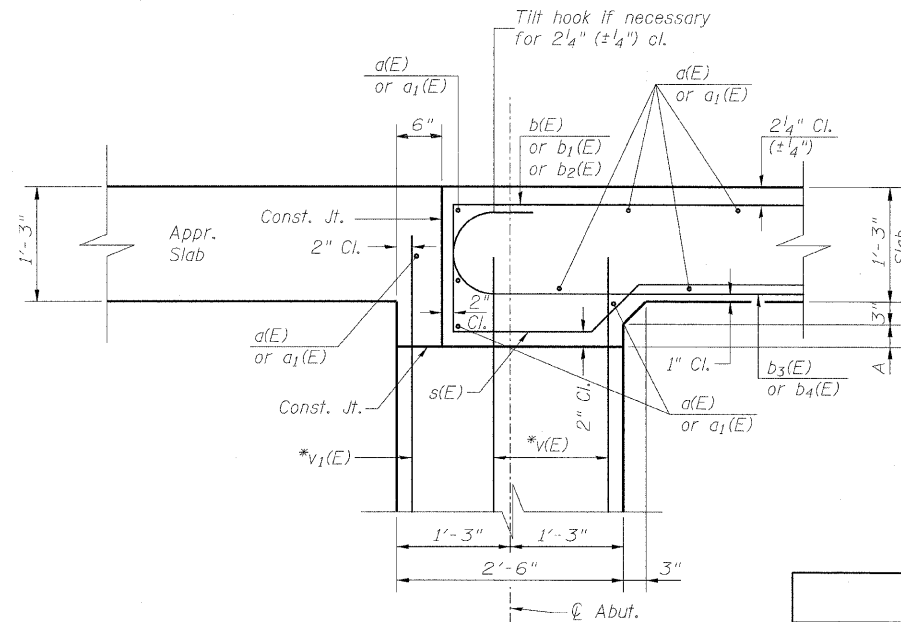
DESIGNED	MMH
CHECKED	RAD
DRAWN	R.VEJAR
CHECKED	RAD

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Chicago, Illinois 60604
312.346.8131
PROJECT # 2945

S-I-D 10-1-08

SHEET NO. 12	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	55	(W-1-15d)BR-1	WINNEBAGO	59	32
			CONTRACT NO. 64D22		
			FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

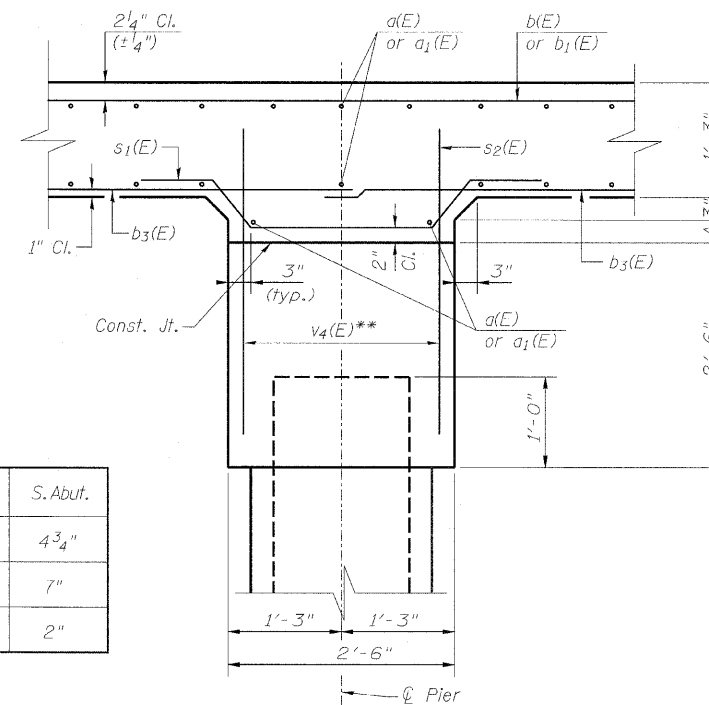


SECTION A-A

* $v(E)$ and $v_1(E)$ bars billed with abutments,
See sheet 15 of 21.

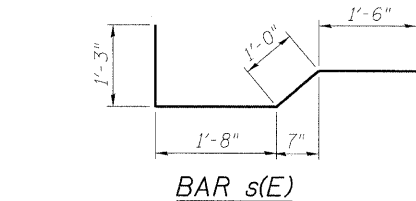
DIMENSION "A"

	N. Abut.	Pier	S. Abut.
West edge of Bridge	4' 7/8"	4' 7/8"	4' 3/4"
Cl. Roadway & P.G.	7' 6"	7' 6"	7"
East edge of Bridge	2"	2"	2"

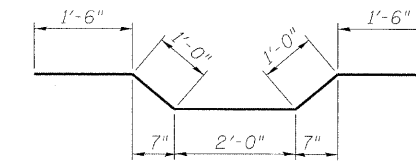


SECTION B-B

** $v_4(E)$ bars billed with pier,
See sheet 17 of 21.



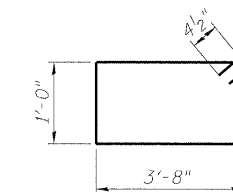
BAR s(E)



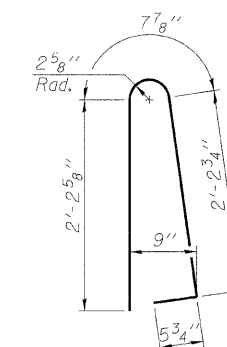
BAR s1(E)



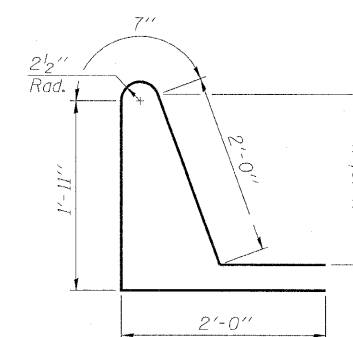
BAR s2(E)



BAR s3(E)



BAR d(E)



BAR d1(E)

SUPERSTRUCTURE
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	122	#5	26'-10"	
a1(E)	122	#5	16'-3"	
a2(E)	90	#6	6'-0"	
b(E)	49	#9	24'-4"	
b1(E)	47	#9	30'-8"	
b2(E)	94	#5	19'-5"	
b3(E)	84	#9	33'-7"	
b4(E)	80	#9	23'-9"	
d(E)	148	#5	5'-7"	
d1(E)	148	#5	7'-8"	
e(E)	56	#4	16'-3"	
e1(E)	4	#8	32'-11"	
e2(E)	4	#4	32'-11"	
s(E)	90	#4	5'-5"	
s1(E)	45	#4	7'-0"	
s2(E)	45	#4	5'-2"	
s3(E)	84	#4	10'-1"	
Reinforcement Bars, Epoxy Coated		Pound	37,550	
Concrete Superstructure		Cu. Yds.	165.4	

Bars indicated thus 1 x 3-#5 etc. indicates
1 line of bars with 3 lengths per line.
For Bar Splicers see Sheet 18 of 21.

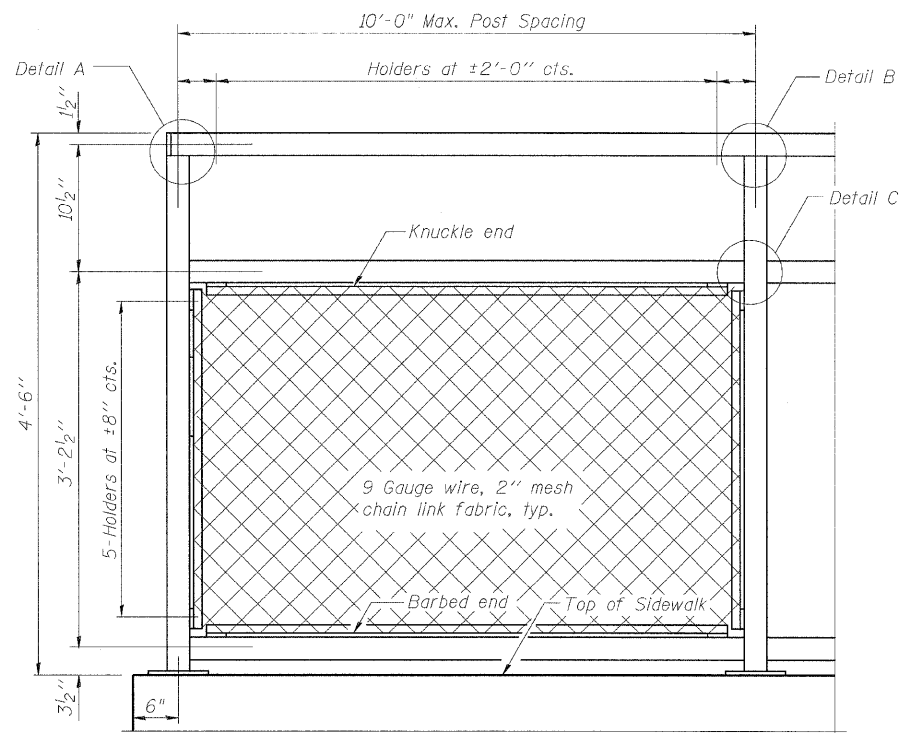
DESIGNED	MMH
CHECKED	RAD
DRAWN	R.VEJAR
CHECKED	RAD

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PROJECT # 2045

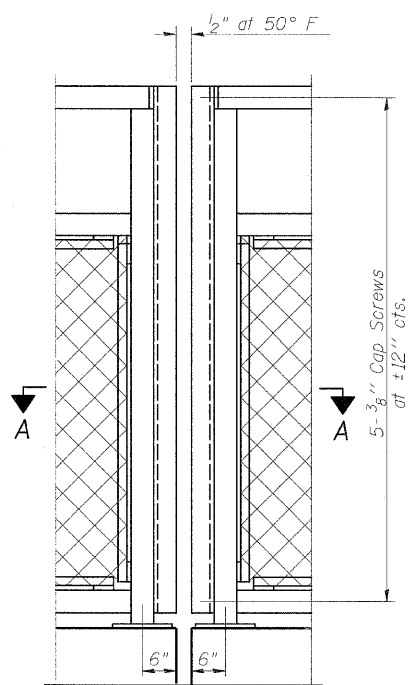
SUPERSTRUCTURE DETAILS
SHEET 2
STRUCTURE NO. 101-0191

SHEET NO. 13	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	55	(W-1-15d)BR-1	WINNEBAGO	59	33
CONTRACT NO. 64D22					
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

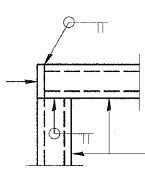


BICYCLE RAILING

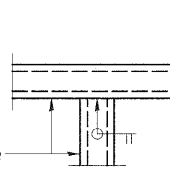


BICYCLE RAILING

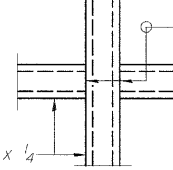
DETAIL A



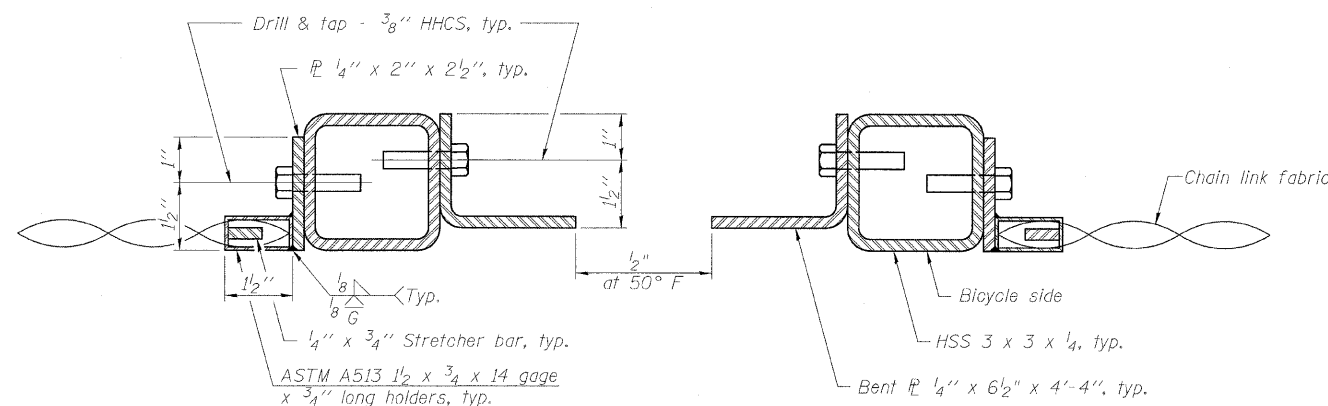
DETAIL B



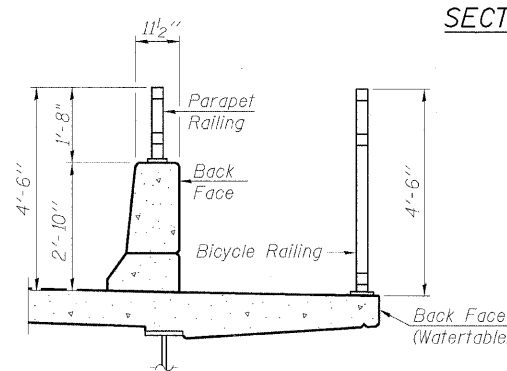
DETAIL C



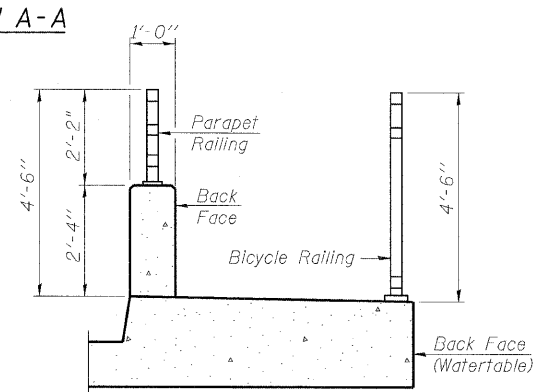
NOTE:
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.



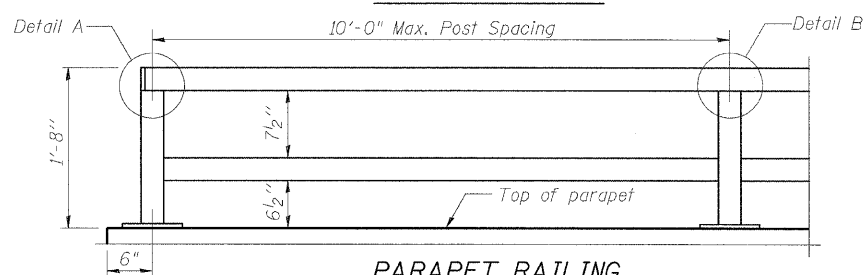
SECTION A-A



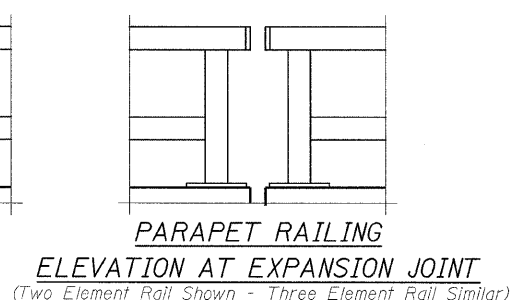
SECTION THRU DECK



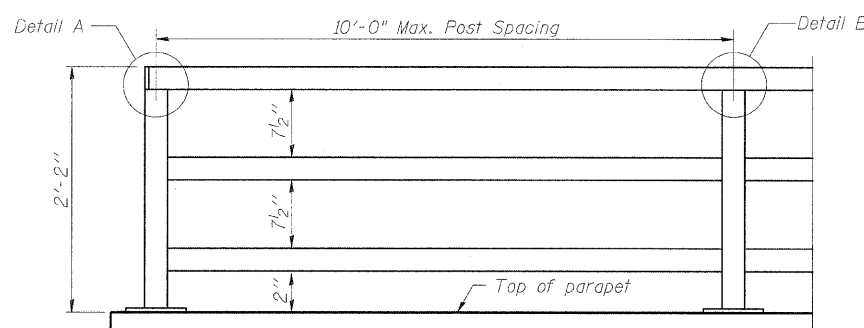
SECTION THRU SIDEWALK



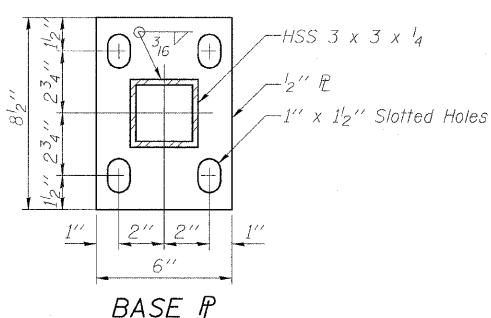
**PARAPET RAILING
ELEVATION**
(Inside Face of Two Element Rail)



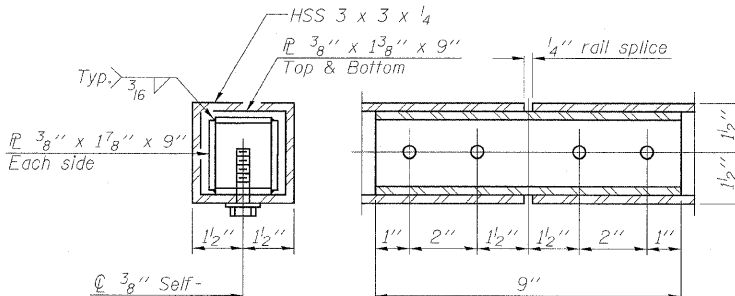
**PARAPET RAILING
ELEVATION AT EXPANSION JOINT**
(Two Element Rail Shown - Three Element Rail Similar)



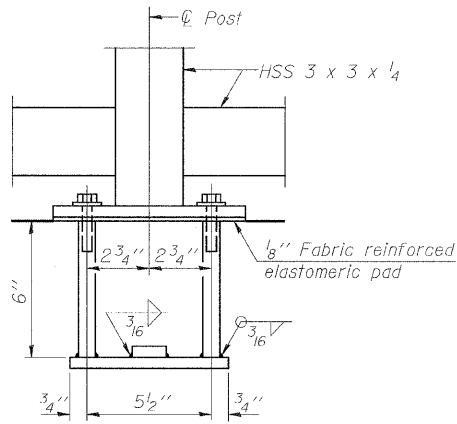
**PARAPET RAILING
ELEVATION**
(Inside Face of Three Element Rail)



BASE PLATE

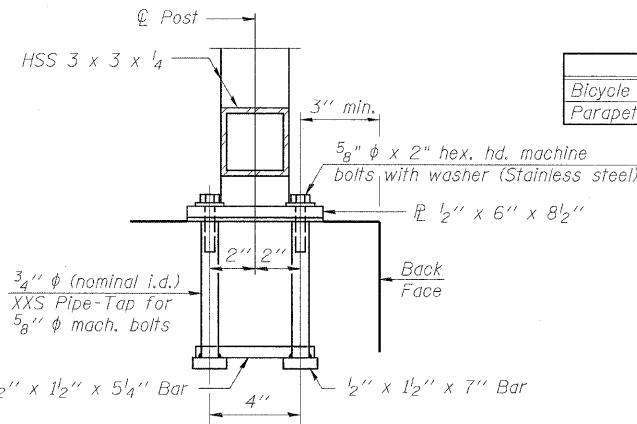


RAIL SPLICE



ANCHOR BOLT DETAILS

In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



BILL OF MATERIAL

Item	Unit	Quantity
Bicycle Railing	Foot	128
Parapet Railing	Foot	128

DESIGNED	MMH
CHECKED	RAD
DRAWN	R.VEJAR
CHECKED	RAD

R-29 10-1-08

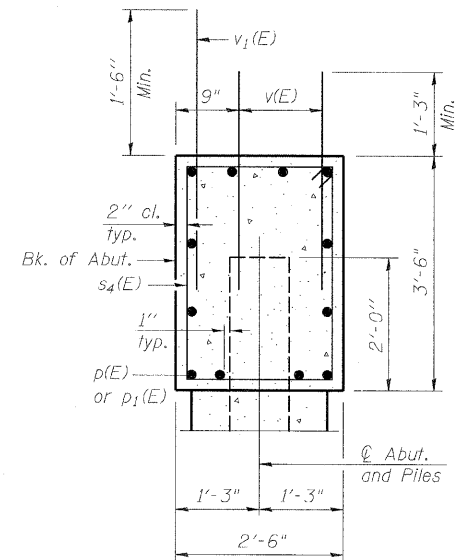
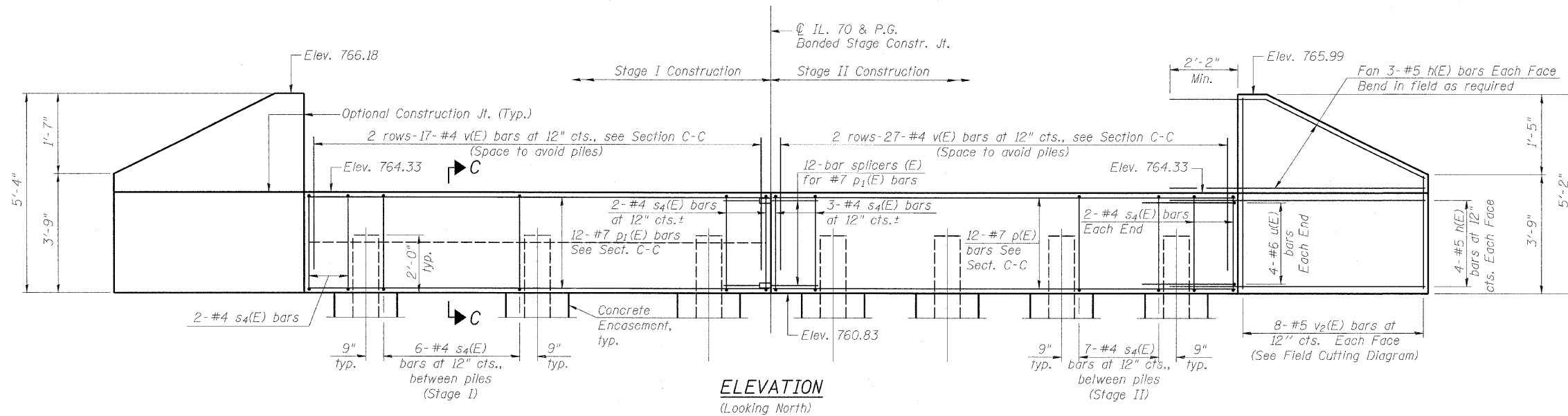
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PROJECT # 2045

(10'-0" Maximum Post Spacing)

SHEET NO.	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	55	(W-1-15d)BR-1	WINNEBAGO	59	34
CONTRACT NO. 64D22					
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

**BICYCLE RAILING
STRUCTURE NO. 101-0191**

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



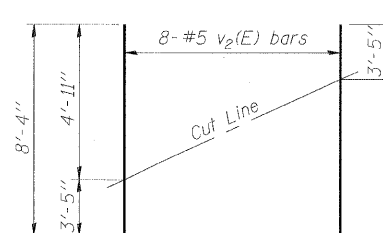
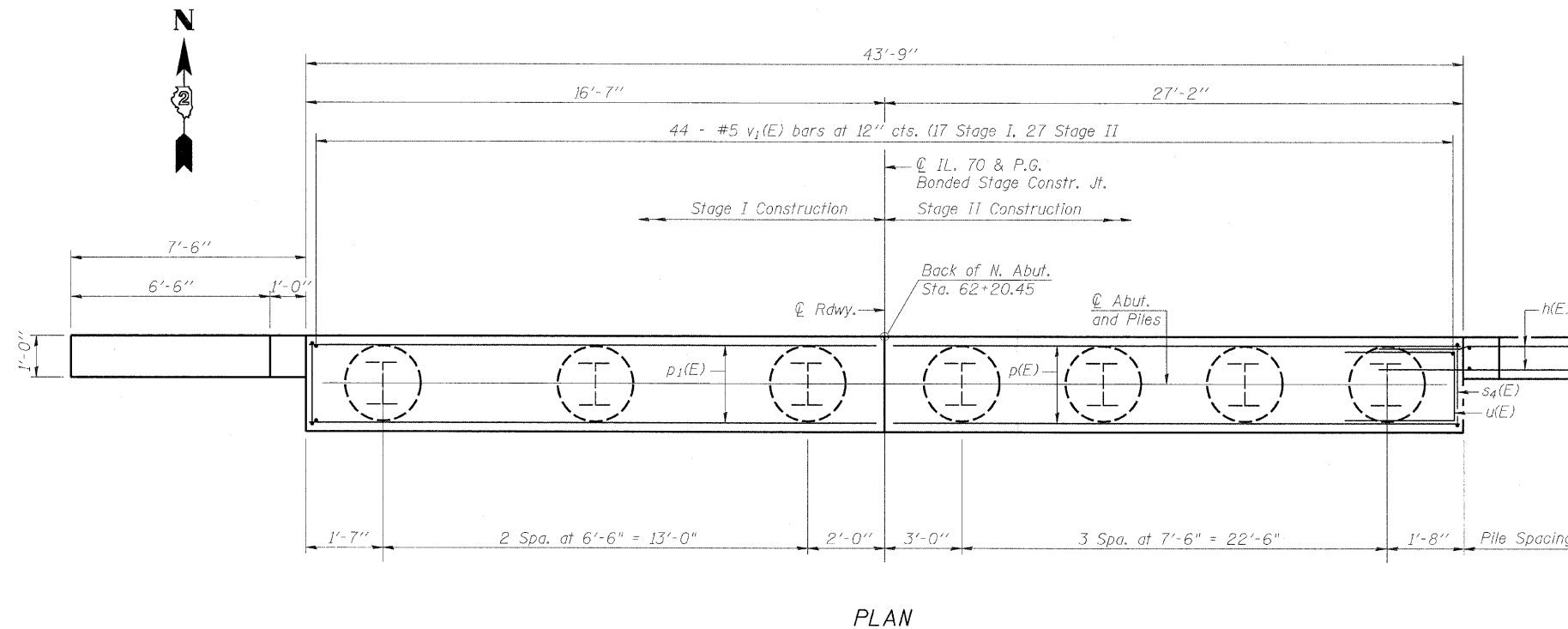
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	56	#5	9'-6"	—
p(E)	24	#7	26'-10"	—
p ₁ (E)	24	#7	16'-3"	—
s ₄ (E)	82	#4	11'-5"	□
u(E)	16	#6	11'-1"	—
v(E)	176	#5	2'-9"	—
v ₁ (E)	88	#5	4'-4"	—
v ₂ (E)	64	#5	8'-4"	—
Structure Excavation		Cu. Yd.	58	
Concrete Structures		Cu. Yd.	33.5	
Reinforcement Bars, Epoxy Coated		Pound	5,020	
Furnishing Steel Piles HP12x53		Foot	896	
Driving Piles		Foot	896	
Test Pile HP12x53		Each	1	
Concrete Encasement		Cu. Yd.	5.2	

For Bar Splicers, see sheet 18 of 21.
For details of piles and Concrete Encasement, see sheet 19 of 21.
Bill of material shown includes both abutments.

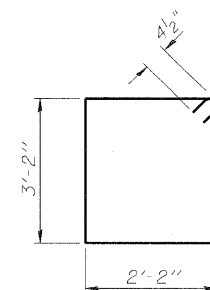
PILE DATA

Pile Type & Size: Steel - HP12X53
Nominal Required Bearing: RN = 404 kips
Factored Resistance Available: RF = 156 kips
Estimated Pile Length: 79'-0"
Number of Production Piles: 7

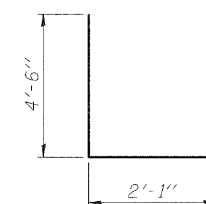


FIELD CUTTING DIAGRAM

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



BAR s₄(E)



BAR u(E)

DESIGNED	MMH
CHECKED	RAD
DRAWN	R.VEJAR
CHECKED	RAD

AI-0

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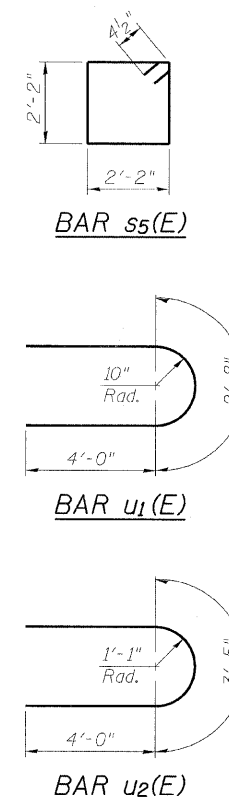
PROJECT # 2945

**NORTH ABUTMENT
STRUCTURE NO. 101-0191**

SHEET NO.	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	55	(W-1-15d)BR-1	WINNEBAGO	59	35
CONTRACT NO. 64D22					
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

For bill of material, Section C-C
and field cutting diagram for bar
v2(E) see Sheet 15 of 21.

Note:
Reinforcement bars designated (E) shall be epoxy coated
all edges shall have $\frac{3}{4}$ " chamfers unless otherwise noted.



Bar	No.	Size	Length	Shape
$h_1(E)$	18	#5	27'-0"	_____
$h_2(E)$	18	#5	16'-5"	_____
$p_2(E)$	10	#7	16'-5"	_____
$p_3(E)$	10	#7	27'-0"	_____
$s_5(E)$	40	#4	9'-5"	□
$u_1(E)$	18	#6	10'-8"	⌋
$u_2(E)$	6	#6	11'-5"	⌋
$v_3(E)$	94	#5	9'-9"	_____
$v_4(E)$	86	#5	2'-9"	_____

Structure Excavation	Cu. Yd.	7
Concrete Structures	Cu. Yd.	37.
Reinforcement Bars, Epoxy Coated	Pound	3,550
Furnishing Steel Piles HP12x53	Foot	612
Driving Piles	Foot	612
Test Pile HP12x53	Each	1
Concrete Encasement	Cu. Yd.	3.5

Pile Type & Size: Steel - HP12X53
Nominal Required Bearing: $R_N = 372$ kips
Factored Resistance Available: $R_F = 148$ kips
Estimated Pile Length: 68'-0"
Number of Production Piles: 9
Number of Test Piles: 1

DESIGNED	MMH
CHECKED	RAD
DRAWN	R.VEJAR
CHECKED	RAD



NOTE:
If a portion of the pier wall or concrete encasement is under water, reinforcement may be placed underwater into forms. Concrete shall be tremied according to article 503.08 of the Standard Specifications on an elevation of 1'-0" above the water line at the time of construction.

PIER
STRUCTURE NO. 101-0191

SHEET NO. 17 21 SHEETS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
	55	(W-1-15d)BR-1	WINNEBAGO	59	37
	CONTRACT NO. 64D22				
	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NOTES

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

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

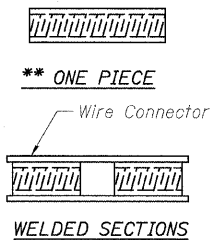
BAR SPLICER ASSEMBLIES

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

The diameter of this part is equal or larger than the diameter of bar spliced.

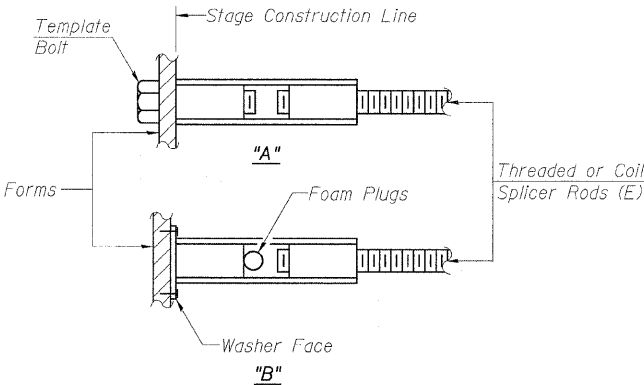
The diameter of this part is the same as the diameter of the bar spliced.

ROLLED THREAD DOWEL BAR



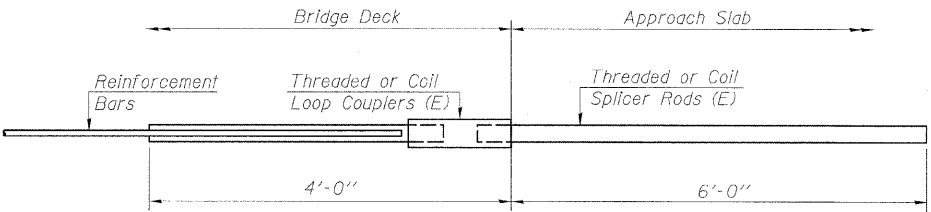
BAR SPLICER ASSEMBLY ALTERNATIVES

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



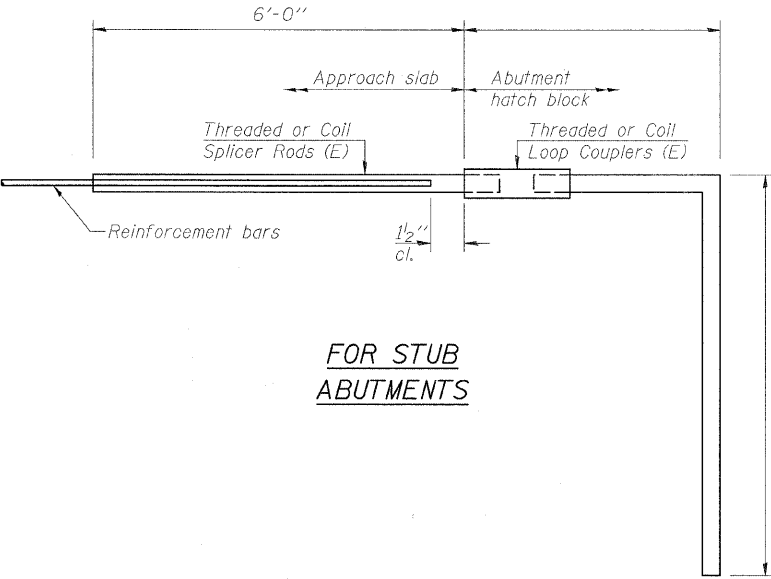
INSTALLATION AND SETTING METHODS

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



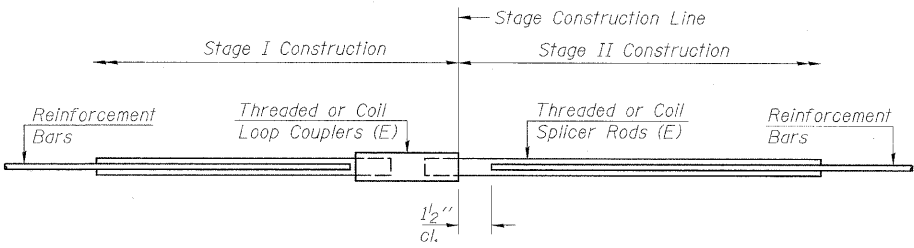
FOR INTEGRAL OR
SEMI-INTEGRAL ABUTMENTS

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



FOR STUB
ABUTMENTS

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



STANDARD

Bar Size	No. Assemblies Required	Location
#4	50	Appr. Slab
#5	122	Deck
#5	172	Appr. Slab
#5	18	Pier
#7	24	Abutments
#7	10	Pier

BAR SPLICER ASSEMBLY
DETAILS
STRUCTURE NO. 101-0191

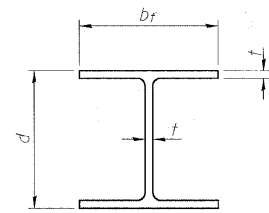
DESIGNED MMH
CHECKED RAD
DRAWN R.VEJAR
CHECKED RAD

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Chicago, Illinois 60604
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PROJECT # 2945

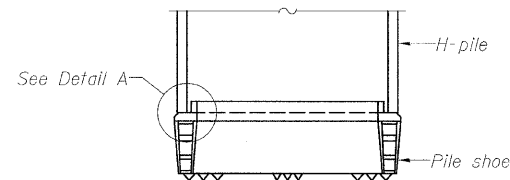
SHEET NO. 18	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	55	(W-1-15d)BR-1	WINNEBAGO	59	38
CONTRACT NO. 64D22					
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

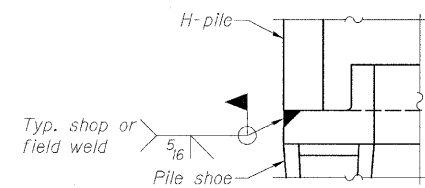


STEEL PILE TABLE

Designation	Depth d	Flange width b _f	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 7/8"	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"

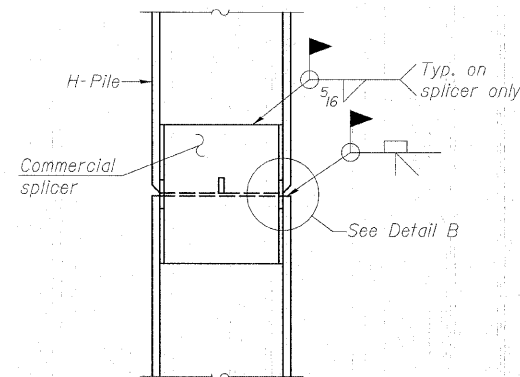


ELEVATION

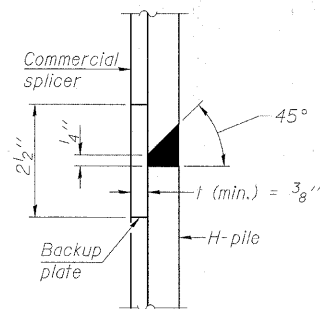


DETAIL A

H-PILE SHOE ATTACHMENT

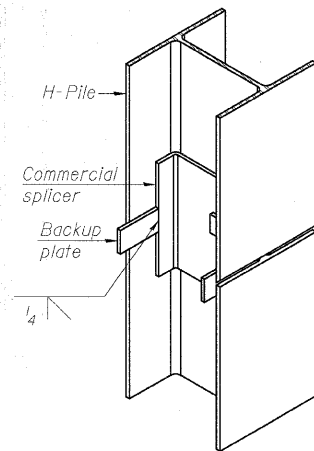


ELEVATION

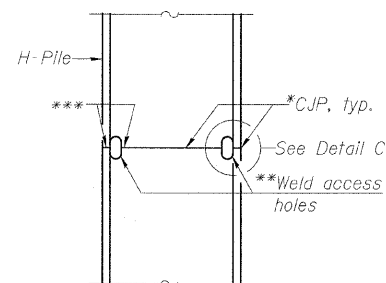


DETAIL "B"

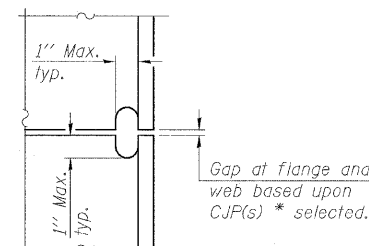
WELDED COMMERCIAL SPLICE



ISOMETRIC VIEW

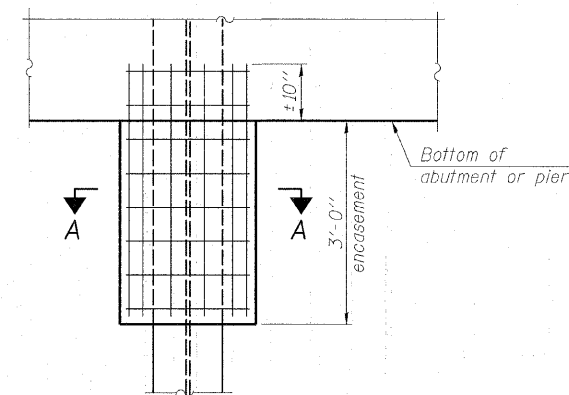


ELEVATION



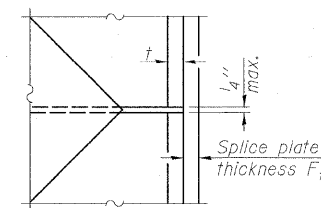
DETAIL C

COMPLETE PENETRATION WELD SPLICE

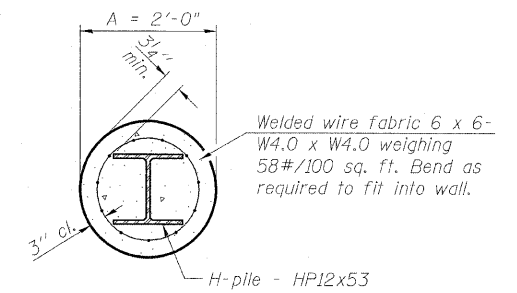


ELEVATION

PILE ENCASEMENT



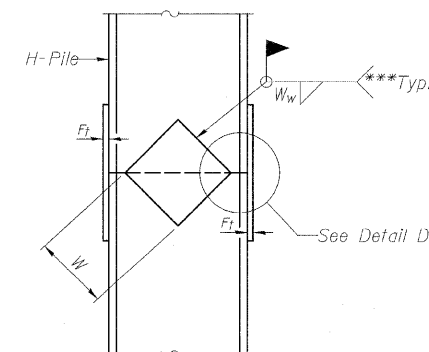
DETAIL D



Note:
Forms for encasement may be omitted when soil conditions permit.
The cost of Excavation and Reinforcement is Included with Concrete Encasement.

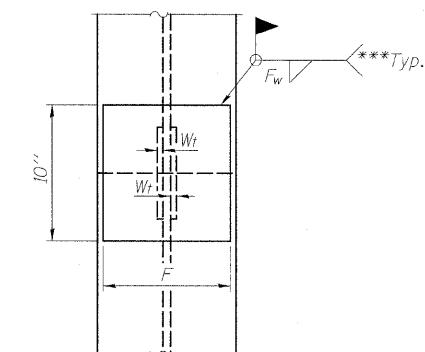
SECTION A-A

Designation	F	F _t	F _w	W	W _t	W _w
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"	1/2"	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"	1/2"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1/2"	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"	5/8"
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"



ELEVATION

WELDED PLATE FIELD SPLICE



END VIEW

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

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

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

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

DESIGNED MMH
CHECKED RAD
DRAWN R.VEJAR
CHECKED RAD
F-HP

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Chicago, Illinois 60604
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PROJECT # 2945

10-01-08

HP PILE DETAILS
STRUCTURE NO. 101-0191

SHEET NO.	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	55	(W-1-15d)BR-1	WINNEBAGO	59	39
CONTRACT NO. 64D22					
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



Illinois Department
of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 1 of 3

ROUTE IL 70 DESCRIPTION P92-062-07 Bridge over Otter Creek, .8 m. N. of IL 75 LOGGED BY W. Garza

SECTION (W-1-15D)BR LOCATION Durand Twp. - 15NE, SEC. , TWP. 28N, RNG. 10E

COUNTY Winnebago DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. 101-0086	D E P T H	B L O W S	U C S	M O I S T	Surface Water Elev. ft	D E P T H	B L O W S	U C S	M O I S T
Station 62+66	P O S I T I O N	W I D T H	Q U A L I T Y	Groundwater Elev. ft	756.70	H I S T O R Y	S O I L T Y P E	Q U A L I T Y	W A S H
BORING NO. B-1a	1	1.0	18.0	First Encounter 755.2 ft		1	1.0	18.0	1
Station 62+14	2	1.5	36.0	Upon Completion Wash ft		2	1.5	36.0	2
Offset 1.00ft Rt CL	3	5		After Hrs. ft		3	5		3
Ground Surface Elev. 766.20 ft	4					4			4
	5					5			5
11" Asphalt	6					6			6
STIFF dark brown SILTY CLAY LOAM	7					7			7
763.70	8					8			8
STIFF dark brown SILTY CLAY	9					9			9
762.20	10					10			10
MEDIUM dark brown SILTY CLAY	11					11			11
759.70	12					12			12
SOFT black SILTY CLAY LOAM with ORGANICS	13					13			13
756.70	14					14			14
MEDIUM gray fine SAND	15					15			15
754.20	16					16			16
MEDIUM gray SILTY LOAM	17					17			17
752.20	18					18			18
MEDIUM gray SANDY LOAM	19					19			19
749.70	20					20			20
MEDIUM gray clean medium coarse SAND with CLAY LOAM TILL lens	21					21			21
747.20	22					22			22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



Illinois Department
of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 2 of 3

ROUTE IL 70 DESCRIPTION P92-062-07 Bridge over Otter Creek, .8 m. N. of IL 75 LOGGED BY W. Garza

SECTION (W-1-15D)BR LOCATION Durand Twp. - 15NE, SEC. , TWP. 28N, RNG. 10E

COUNTY Winnebago DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. 101-0086	D E P T H	B L O W S	U C S	M O I S T	Surface Water Elev. ft	D E P T H	B L O W S	U C S	M O I S T
Station 62+66	P O S I T I O N	W I D T H	Q U A L I T Y	Groundwater Elev. ft	756.70	H I S T O R Y	S O I L T Y P E	Q U A L I T Y	W A S H
BORING NO. B-1a	1	1.0	18.0	First Encounter 755.2 ft		1	1.0	18.0	1
Station 62+14	2	1.5	36.0	Upon Completion Wash ft		2	1.5	36.0	2
Offset 1.00ft Rt CL	3	5		After Hrs. ft		3	5		3
Ground Surface Elev. 766.20 ft	4					4			4
	5					5			5
MEDIUM gray LOAM TILL	6					6			6
724.70	7					7			7
SOFT gray LOAM TILL	8					8			8
722.20	9					9			9
STIFF gray LOAM TILL	10					10			10
719.20	11					11			11
MEDIUM gray dirty SAND & GRAVEL	12					12			12
716.70	13					13			13
STIFF gray LOAM TILL	14					14			14
714.70	15					15			15
HARD gray SILTY CLAY TILL	16					16			16
712.20	17					17			17
STIFF gray LOAM TILL	18					18			18
709.70	19					19			19
STIFF gray LOAM TILL	20					20			20
706.70	21					21			21

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



Illinois Department
of Transportation
Division of Highways
Illinois Department of Transportation/D-2

SOIL BORING LOG

Page 3 of 3

ROUTE IL 70 DESCRIPTION P92-062-07 Bridge over Otter Creek, .8 m. N. of IL 75 LOGGED BY W. Garza

SECTION (W-1-15D)BR LOCATION Durand Twp. - 15NE, SEC. , TWP. 28N, RNG. 10E

COUNTY Winnebago DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. 101-0086	D E P T H	B L O W S	U C S	M O I S T	Surface Water Elev. ft	D E P T H	B L O W S	U C S	M O I S T
Station 62+66	P O S I T I O N	W I D T H	Q U A L I T Y	Groundwater Elev. ft	756.70	H I S T O R Y	S O I L T Y P E	Q U A L I T Y	W A S H
BORING NO. B-1a	1	1.0	18.0	First Encounter 755.2 ft		1	1.0	18.0	1
Station 62+14	2	1.5	36.0	Upon Completion Wash ft		2	1.5	36.0	2
Offset 1.00ft Rt CL	3	5		After Hrs. ft		3	5		3
Ground Surface Elev. 766.20 ft	4					4			4
	5					5			5
VERY STIFF gray SILTY CLAY	6					6			6
684.70	7					7			7
Wash	8					8			8
HARD gray CLAY LOAM	9					9			9
682.20	10					10			10
End of Boring	11					11			11
	12					12			12
	13					13			13
	14					14			14
	15					15			15
	16					16			16
	17					17			17
	18					18			18
	19					19			19
	20					20			20
	21					21			21
	22					22			22

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

DESIGNED MMH
CHECKED RAD
DRAWN R.VEJAR
CHECKED RAD

HOH
ENGINEERS, INC.
55 E. Jackson Blvd.
Chicago, Illinois 60604
312.346.8131
PROJECT # 2945

SOIL BORINGS - SHEET 1
STRUCTURE NO. 101-0191

SHEET NO. 20	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
21 SHEETS	55	(W-1-15d)BR-1	WINNEBAGO	59	40
CONTRACT NO. 64D22					
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



SOIL BORING LOG

Page 1 of 2

Date 9/27/06

ROUTE	IL 70	DESCRIPTION	IL 75	LOGGED BY	W. Garza
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SECTION (W-1-15D)BR LOCATION Durand Twp. - 15NE, SEC. , TWP. 28N, RNG. 10E

COUNTY Winnebago DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. <u>101-0086</u>	D	B	U	M	Surface Water Elev. _____ ft	D	B	U	M
Station <u>62+66</u>	E	L	C	O	Stream Bed Elev. <u>756.70</u> ft	E	L	C	O
	P	O	S	I		P	O	S	I
BORING NO. <u>B-2g</u>	T	W	S	T	Groundwater Elev.: _____	T	W	S	T
Station <u>63+14</u>	H	S	Qu	T	First Encounter <u>753.6</u> ft▼	H	S	Qu	T
Offset <u>8.00ft L CL</u>					Upon Completion <u>727.6</u> ft▼				
Ground Surface Elev. <u>756.10</u> ft	(ft) (1/6")	(1st) (%)			After _____ Hrs. _____ ft	(ft) (1/6")	(1st) (%)		

7.5" Asphalt, 8" Concrete			STIFF gray SILTY CLAY LOAM TILL		
		0.6 P 17.0			1
MEDIUM brown SILTY CLAY LOAM					2 1.6 12.0
					5 B
	763.60			744.10	
MEDIUM brown SILTY CLAY					4
		0.6 P 21.0			11
	762.10				13
				741.60	
MEDIUM dark brown SILTY CLAY LOAM	-5				25
		0.5 B 34.0	HARD gray SILTY CLAY with fine SAND lens		9
	759.60				12 4.0 18.0
				739.60	17 S
SOFT dark gray SANDY LOAM					
		0.3 P 34.0	STIFF gray SILTY LOAM		15
	757.10				9 1.1 18.0
					P
				736.60	
	-10				30
MEDIUM gray SILTY CLAY with dirty SAND lens		0.8 P 26.0	LOOSE/MEDIUM gray fine SAND, very moist		0
					4
				734.60	6
	754.10				
MEDIUM gray dirty SAND & GRAVEL ▼					
			MEDIUM gray fine SAND		3
					9
				732.10	10
	751.60				
	-15				35
MEDIUM gray LOAM TILL			MEDIUM gray fine SAND		0
		0.5 B			7
	749.60			729.60	13
MEDIUM gray SILTY CLAY LOAM TILL			DENSE gray SAND & GRAVEL		9
		0.9 B 12.0		▽	12
	747.10				50
				725.60	
	-20				40

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T205)



SOIL BORING LOG

Page 2 of 2

Date 9/27/06

ROUTE	IL 70	DESCRIPTION	IL 75	LOGGED BY
		192-062-07 Bridge over Otter Creek, .8 mi. N. of		W. Garza

SECTION (W-1-15D)BR LOCATION Durand Twp. - 15NE, SEC. , TWP. 28N, RNG. 10E

COUNTY Winnebago DRILLING METHOD Hollow Stem Auger HAMMER TYPE B-53 Diedrich Automatic

STRUCT. NO. 101-0086 D B U M
 Station 62+66 E L C O Surface Water Elev. ft
 P O S Stream Bed Elev. 756.70 ft
 T W I
 BORING NO. B-2g H S Ou T Groundwater Elev.:
 Station 63+14 First Encounter 753.6 ft ∇
 Offset 8.00 ft Lt CL Upon Completion 727.6 ft ∇
 Ground Surface Elev. 766.10 ft (ft) (1/8") (tsf) (X) After Hrs. ft

MEDIUM gray LOAM TILL		2		
	724.60	5 8	0.6 B	10.0
VERY DENSE gray SILTY LOAM TILL		32		
		35		18.0
		38		
	721.60			
	-45			
VERY DENSE gray SILTY LOAM TILL		100/10	5"	
	719.60			
STIFF gray SILTY LOAM with fine SAND lens		9		
		20	1.8	17.0
	717.10	21	S	
	-50			
HARD gray CLAY LOAM		11		
		15	5.0	21.0
	714.60	22	B	
HARD gray CLAY LOAM with SILT lens		8		
		11	4.7	20.0
	712.10	17	S	
End of Boring				
	-55			
	-60			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

DESIGNED	MMH
CHECKED	RAD
DRAWN	R.VEJAR
CHECKED	RAD



PROJECT # 2945

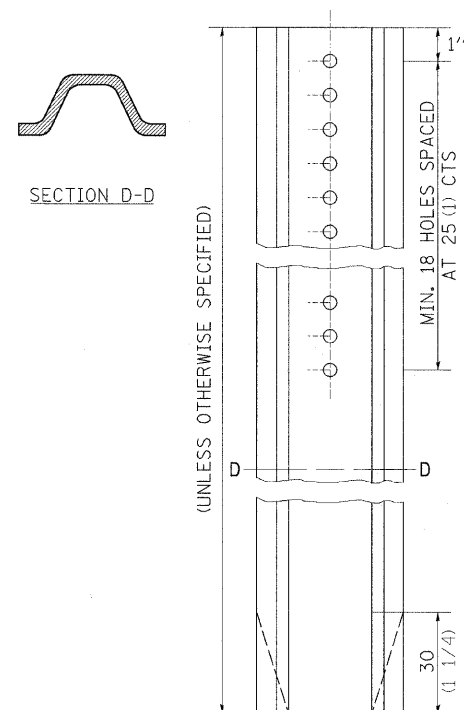
SOIL BORINGS - SHEET 2
STRUCTURE NO. 101-0191

SHEET NO. 21	F.A.S. RTE.	SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
	55	(W-1-15d)BR-1			WINNEBAGO	59	41
	21 SHEETS				CONTRACT NO. 64D22		
	FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT			

Diagram illustrating a post-and-rail delineator. The diagram shows a cross-section of a road with a raised delineator. A vertical line labeled "POST" is in the center. A horizontal line labeled "DELINEATOR" is at the base. An arrow labeled "DIRECTION OF TRAFFIC" points upwards from the left.

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

REVISÉ - 11-01-07



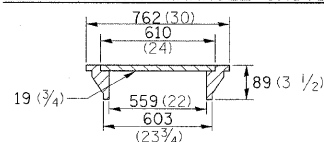
37.4

STEPS AT 300 (12) TO 400 (16) CTS.
* THE WALL ADJUSTMENTS SHALL BE
MADE WITH CONCRETE BUILDING BRICK
OR CLASS SI CONCRETE.
THE HEIGHT OF THE BOX MAY BE
CONSTRUCTED 150 (6) SHORT TO ALLOW
FOR FIELD ADJUSTMENTS.

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

LIGHT WEIGHT MANHOLE CASTING

LIGHT WEIGHT MANHOLE CASTING



TOTAL WEIGHT 73 KG. (160 LBS.)

NOTES

THE CURB AND GUTTER ADJACENT TO AND 1.8m (6 FT) ON EITHER SIDE OF THE INLET SHALL BE CONSTRUCTED AS SHOWN WITH NO ADDITIONAL COMPENSATION FOR THE TRANSITION.

** WHEN INLET IS CONSTRUCTED IN RETURN,
THE TOP OF SLAB SHALL CONFORM TO THE
RADIUS OF THE RETURN.

79.4b

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -
H:\Projects\2944\DGNS\Z062075T02.dgn		DRAWN -	REVISED -
	PLOT SCALE = 1.000' / IN.	CHECKED -	REVISED -
	PLOT DATE = 11/30/2009	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

Diagram illustrating the proposed finished grade and existing ground. The diagram shows a cross-section of a slope with a dashed line representing the existing ground and a solid line representing the proposed finished grade. The proposed finished grade is shown with a series of steps or benches, labeled "PROPOSED BENCHING". The vertical distance between the existing ground and the proposed finished grade is labeled "VARIES". The horizontal distance between the existing ground and the proposed finished grade is also labeled "VARIES".

REVISÉ - 2-22-06

50.4

BARRIER CURB
Use Type "A"
Nose for Inlet
Top Slab

150 (6)

25 (1)

600 (24) for Type
B-15.60 (B-6.24)

25 R (1)

150 (6)

Slope 6%

Pavement

NO. 20 (NO. 6) tie bars
@ 600 (24) ctrs.

50 (2)

$T/2$

$T/2$

Diagram illustrating the structure and dimensions of a weir. The top view shows a rectangular weir with a width of 150 (6). The side view shows the weir structure with a height of 113 (4 1/2) and a sloped downstream face. The weir is labeled "WIER ELEV." and "113 (4 1/2) OPENING". The bottom right corner is labeled "ALL".

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

MOUNTABLE CURB

Use Type "B" Nose for Inlet Top Slab

75 (3) 100 (4)

50 R(2)

150 (6)

600 (24) for Type M-15.60 (M-6.24)

Slope 6%

Pavement

NO. 20 (NO. 6) tie bars @ 600 (24) ctrs.

50 (2)

T

$\frac{T}{2}$

$\frac{T}{2}$

Technical drawing of a weir structure. The drawing shows a cross-section of the weir with a sloped right side. Key dimensions and labels include:

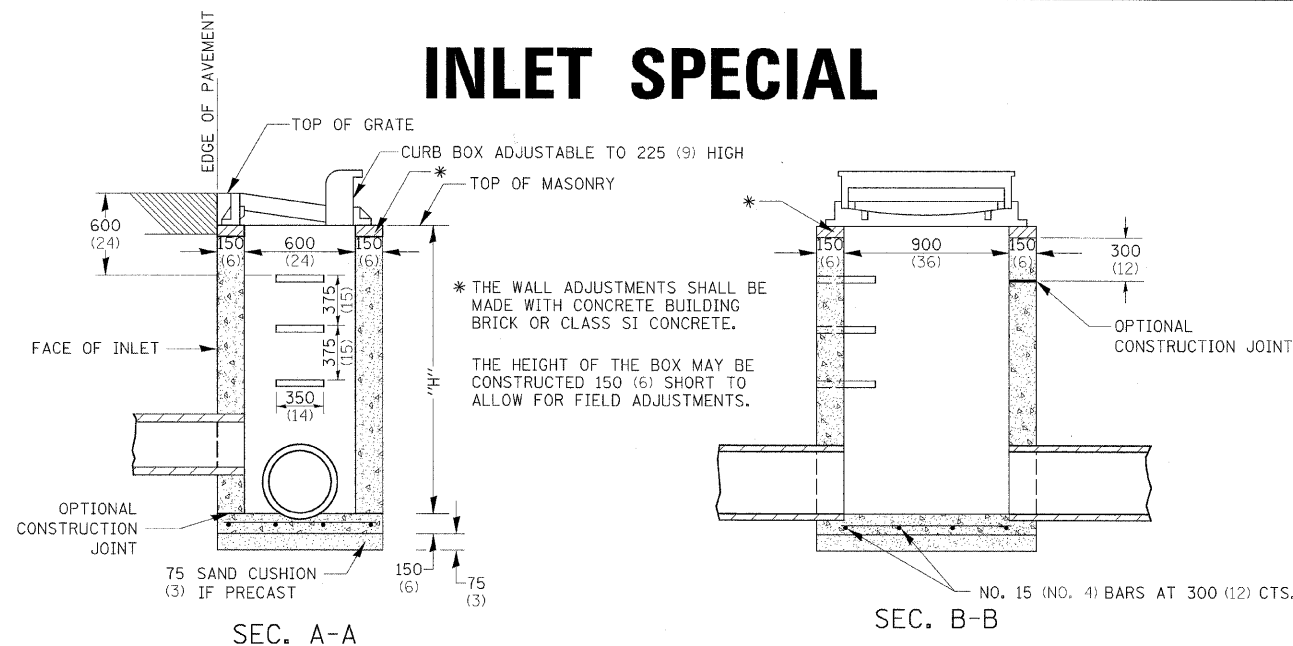
- 150 (6)**: Vertical dimension on the left side of the weir structure.
- 25 R (1)**: Dimension indicating a 25-foot radius on the right side of the weir structure.
- 113 (4 1/2) OPENING**: Dimension indicating the height of the opening in the weir structure.
- WIER ELEV.**: Label pointing to the elevation of the weir structure.
- 25 (1)**: Dimension indicating a 25-foot radius on the right side of the weir structure.
- (2)**: Label pointing to the top right corner of the weir structure.
- WATER (INCHES)**: Label at the bottom left of the drawing.

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

79.4d

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(W-1-15d)BR-1	WINNEBAGO	59	42
CONTRACT NO. 64D22				

INLET SPECIAL



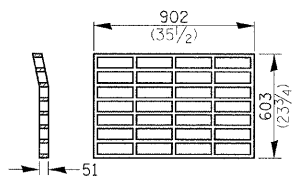
NOTES

SEE STANDARD 602701 FOR DETAILS OF STEPS.
EXCEPT AS NOTED HEREON INLET SPECIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.
THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTED SECTIONS.
ALL VOIDS AROUND PIPE ENTRANCE, BOTH INSIDE AND OUTSIDE, SHALL BE SEALED WITH MORTAR.
WEIGHT OF CAST IRON FRAME & GRATE = 240 kg (530 lbs.) ± .
STEPS SHALL BE OMITTED WHEN DEPTH OF "H" IS LESS THAN 1.5 m (5 ft).

DETAIL OF FRAME & GRATE

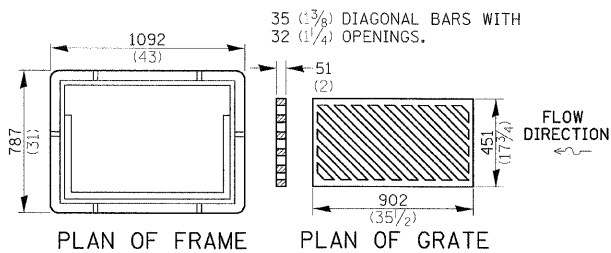
NOTES

CLASS SI CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT. PRECAST CONCRETE SHALL BE IN ACCORDANCE WITH SECTION 504.01 THRU 504.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT CONCRETE STRENGTH SHALL BE 27.5 MPa (4,000 psi) AFTER 28 DAYS.
THE CONTRACT UNIT PRICE EACH FOR INLET SPECIAL SHALL INCLUDE THE COST OF CONSTRUCTING THE INLET BOX, FURNISHING AND INSTALLING THE FRAME AND GRATE, THE CAST IRON STEPS (IF USED), THE PRECAST FLOOR SLABS, SAND CUSHION (WHEN USED) AND REINFORCEMENT BARS.



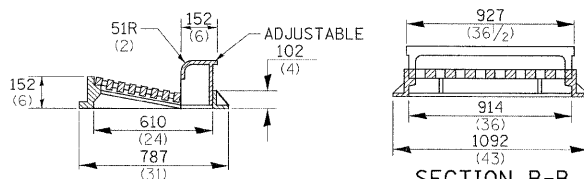
PLAN OF GRATE *

* THIS GRATE TO BE USED WITHOUT CURB BOX WHEN INLET IS IN DRIVEWAY.



PLAN OF FRAME

PLAN OF GRATE

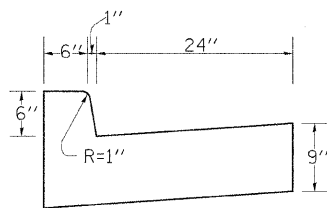
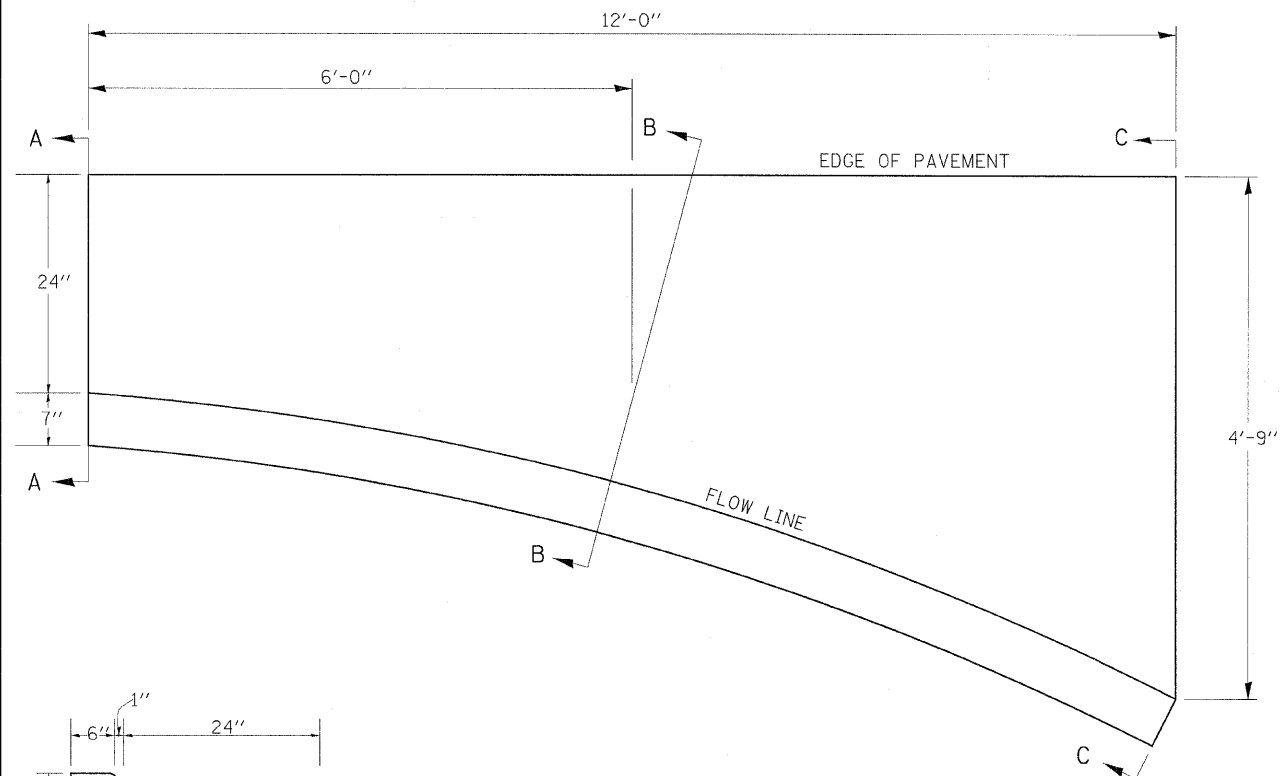


SECTION A-A

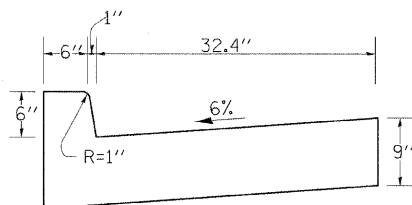
SECTION B-B

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

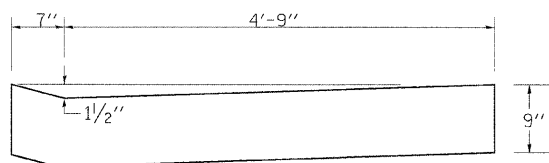
STANDARD INLET FOR CURB & GUTTER TYPE B-6.24



SECTION A-A



SECTION B-B



SECTION C-C

NOTES

Class SI Concrete shall be used throughout.
The Curb and Gutter Inlet will be paid for at the contract unit price per cubic yard for Class SI Concrete (OUTLETS).
Joints shall be constructed in accordance with the requirements of Article 606.07 of the Standard Specifications.
When curb and gutter is constructed adjacent to flexible pavement, a 1" expansion joint shall be installed at construction joints.

- QUANTITY -

Section A-A to C-C
(1.23 Cu. Yds.)
Class SI Concrete

INLET SPECIAL

10.2

STANDARD INLET FOR CURB & GUTTER TYPE B-6.24

21.2

REVISED - 11-10-94

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -
H:\Projects\2944\DCNS\206267STD2.dgn		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REVISED - 10-10-06

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(W-1-15d)BR-1	WINNEBAGO	59	44
CONTRACT NO. 64D22				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

ROADWAY

SHOULDER

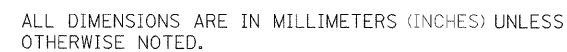
FORESLOPE

BACKSLOPE

SILT FENCE

3m (10') MIN.

9m (30') MIN.



EROSION CONTROL DETAILS FOR SILT FENCE 29.2

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

Technical drawing of a diamond-shaped traffic sign with the text "XX'-X''" and arrows. The drawing includes detailed dimensions for the sign's overall size and internal components.

Overall Dimensions:

- Overall width: 66.3
- Overall height: 66.3

Internal Dimensions (from left to right):

- Left arrow: 2.4 (width), 10.4 (height), 2 (thickness)
- Text "XX'-X''": 16 (width), 6 (height), 1.5 (thickness), 8 (width), 1 (height), 2.3 (thickness), 10.3 (width), 2.4 (thickness)
- Right arrow: 2.4 (width), 10.4 (height), 2 (thickness)

Internal Dimensions (from top to bottom):

- Top arrow: 26.5 (width), 13 (height), 26.8 (width), 26.8 (height), 26 (width), 32.4 (height), 26.8 (width), 26.7 (height), 26.7 (width), 2.3 (height), 13 (width), 26.6 (height)
- Text "XX'-X''": 27.5 (width), 12 (height), 37.3 (width), 32.4 (height), 27.5 (width), 37.3 (height), 27.5 (width), 2.3 (height), 13 (width), 26.6 (height)
- Bottom arrow: 26.5 (width), 13 (height), 26.8 (width), 26.8 (height), 26 (width), 32.4 (height), 26.8 (width), 26.7 (height), 26.7 (width), 2.3 (height), 13 (width), 26.6 (height)

Technical drawing of a rectangular sign with dimensions and text. The sign is divided into three horizontal sections. The top section contains the text "MAX WIDTH" in large, bold, black capital letters. The middle section contains the text "XX' - XX'" in large, bold, black capital letters. The bottom section contains the text "X MILES" in large, bold, black capital letters, followed by "AHEAD" in large, bold, black capital letters. The sign is surrounded by a white border. Dimensions are indicated by arrows and numbers: the total width is 48, the total height is 30, and the text area is 34.8 wide and 22 high. The text "MAX WIDTH" is 15.9 wide and 6 high. The text "XX' - XX'" is 22.7 wide and 8 high. The text "X MILES" is 10.9 wide and 6 high. The text "AHEAD" is 10.9 wide and 6 high. The sign is labeled "MAX WIDTH" and "XX' - XX'" and "X MILES AHEAD".

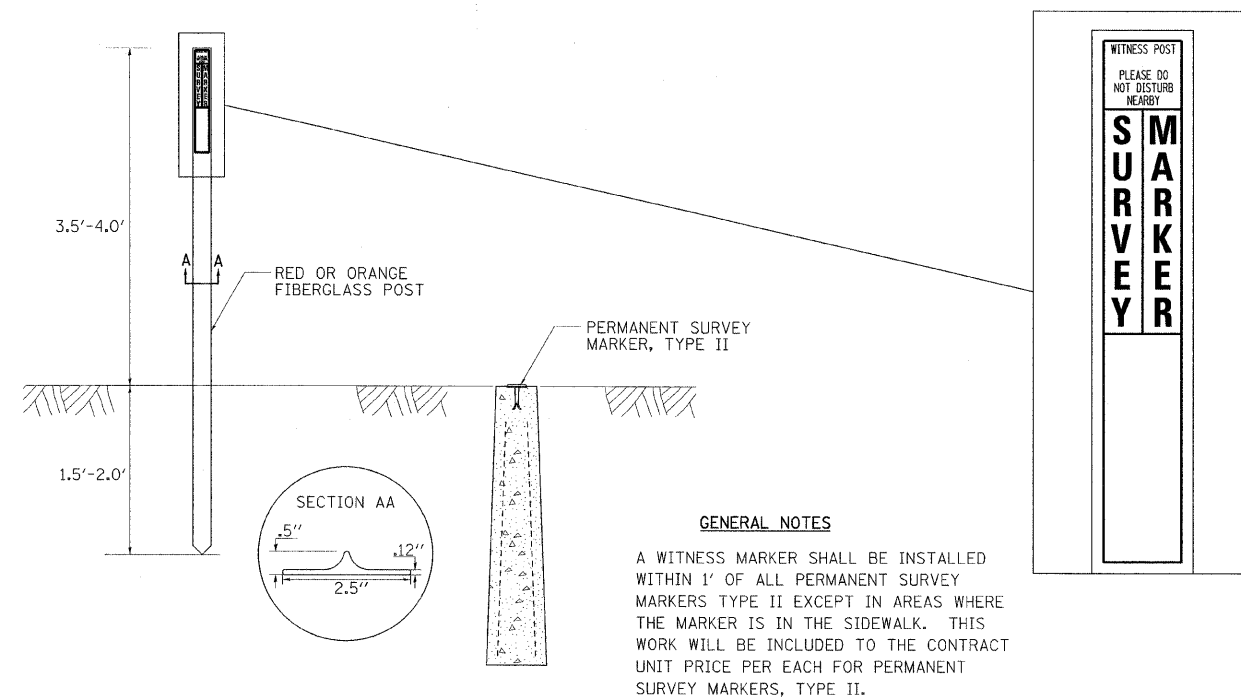
Section	Text	Width (inches)	Height (inches)
Top	MAX WIDTH	15.9	6
Middle	XX' - XX'	22.7	8
Bottom	X MILES AHEAD	10.9	6

Overall dimensions: 48 inches wide by 30 inches high. Text area dimensions: 34.8 inches wide by 22 inches high.

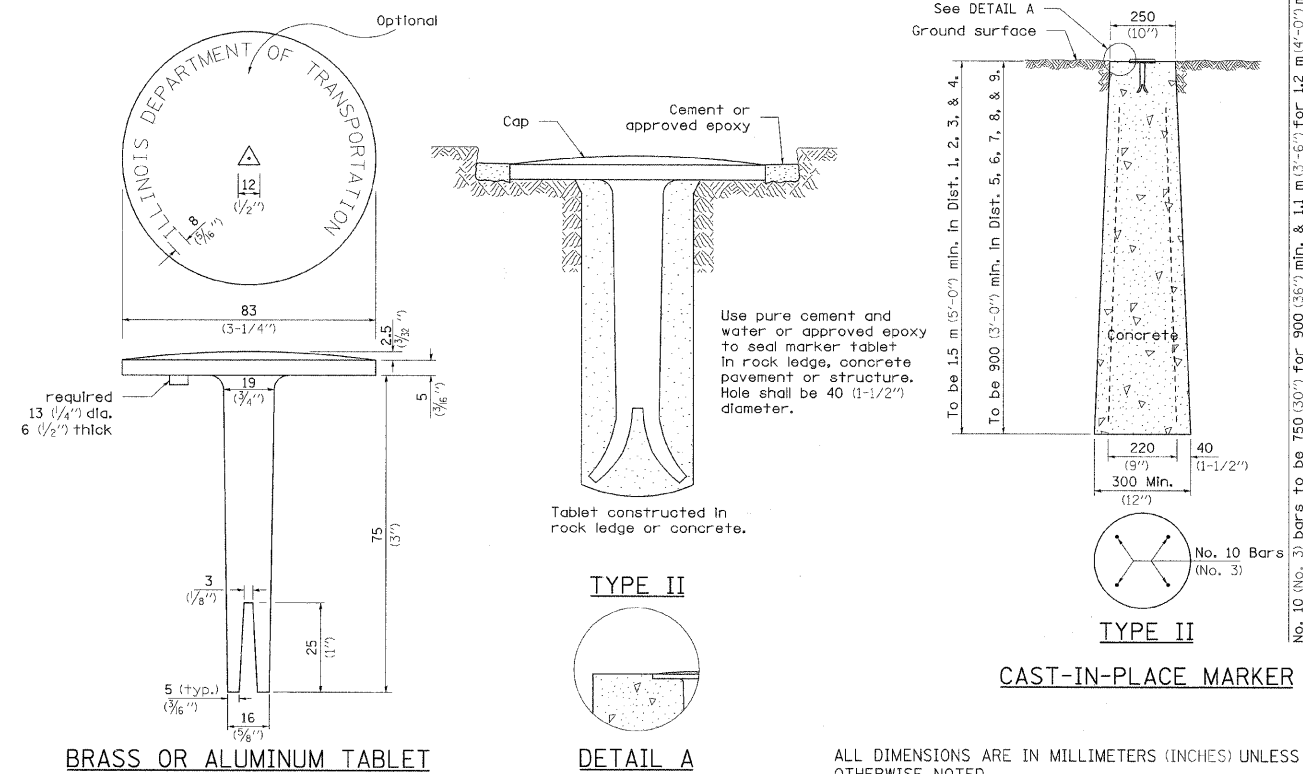
All work to furnish and install these signs shall be included in the cost of the Traffic Control Standards and shall not be paid for separately.

INFORMATIONAL WARNING SIGNS (FOR NARROW TRAVEL LANES) 39.2

REGION 2 / DISTRICT 2 STANDARD					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
					55	(W-1-15d)BR-1	WINNEBAGO	59	45
SCALE:					CONTRACT NO.				
SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

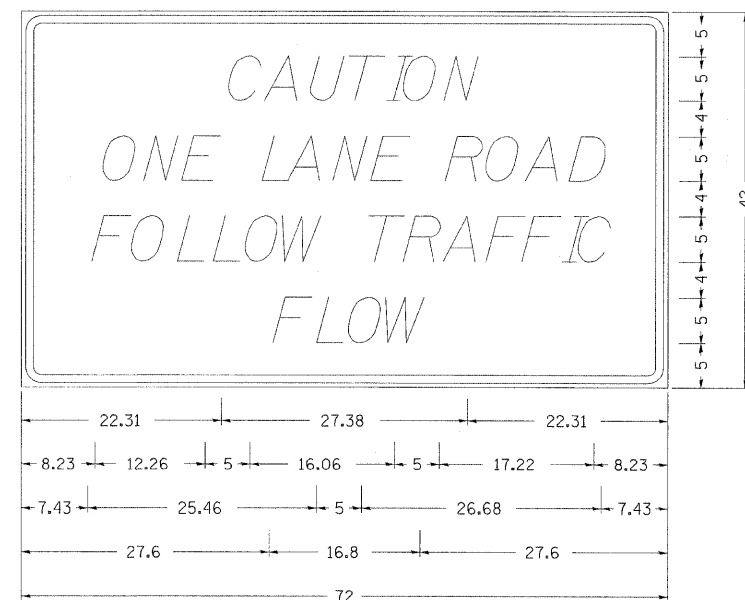


PERMANENT SURVEY MARKERS, TYPE II



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

ENTRANCE SIGN FOR USE WITH TEMPORARY SIGNALS



Type AA Fluorescent Orange Sheeting ;
2.25" Radius, 0.88" Border, 0.50" Indent, Black on Orange;
[CAUTION] D; [ONE LANE ROAD] D;
[FOLLOW TRAFFIC] D; [FLOW] D

Table Of Widths And Spaces

22.31	C 3.36	0.62	A 4.18	0.94	U 3.36	0.94	T 3.04	0.94	I 0.78	1.17	O 3.52	1.17	N 3.36	22.31	
8.23	O 3.51	1.17	N 3.36	1.18	E 3.04										
	L 5.00	3.05	0.31	A 4.18	0.94	N 3.36	1.17	E 3.05							
	R 5.00	3.36	0.93	O 3.52	0.94	A 4.18	0.93	D 3.36	8.23						
7.43	F 3.04	0.94	O 3.52	1.17	L 3.04	0.94	L 3.05	0.94	O 3.51	0.94	W 4.37				
	T 5.00	3.05	0.94	R 3.36	0.94	A 4.18	0.93	F 3.05	0.94	F 3.04	0.94	I 0.78	1.18	C 3.35	7.43
27.60	F 3.05	0.94	L 3.04	0.94	O 3.52	0.93	W 4.38	27.60							

GENERAL NOTES

THIS SIGN SHALL BE INSTALLED AT ENTRANCES LOCATED
BETWEEN THE TEMPORARY SIGNALS AS DIRECTED BY
THE ENGINEER.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

THE COST TO FURNISH, INSTALL AND REMOVE THIS SIGN AT THE REQUIRED LOCATIONS SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION STANDARD 701321.

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

REVISÉD- 10-21-08

WITNESS MARKER & PERMANENT SURVEY MARKERS, TYPE II 66.2

REVISÉD - 10-28-05

ENTRANCE SIGN FOR USE WITH TEMPORARY SIGNALS 75.2

FILE NAME =	USER NAME = \$USER\$	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD										
H:\Projects\2944\DGNS\2052075T02.dgn		DRAWN -	REVISED -			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.					
PLOT SCALE = 1:200' / IN.	CHECKED -	REVISED -				55	(W-1-15d)BR-1	WINNEBAGO	59	46					
PLOT DATE = 11/30/2009	DATE -	REVISED -				CONTRACT NO.									
				SCALE:		SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.		ILLINOIS LEED AND PROJECT		

STORM WATER POLLUTION PREVENTION PLAN

EROSION CONTROL PLAN

THE FOLLOWING PLAN WAS ESTABLISHED AND INCLUDED IN THESE PLANS TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES.

THE PURPOSE OF THIS PLAN IS TO MINIMIZE SILTATION WITHIN THE CONSTRUCTION ZONE AND TO ELIMINATE SEDIMENTS FROM ENTERING AND LEAVING THE CONSTRUCTION ZONE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME.

CERTAIN ITEMS, AS SHOWN IN THIS PLAN AND REFERENCED BY THE LEGEND, SHALL BE PLACED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE PLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE SITUATION RESULTING FROM THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL PLACE PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A REASONABLE AMOUNT OF TIME: THEREFORE, REDUCING THE AMOUNT OF AREA BEING OPEN TO THE POSSIBILITY OF EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING. THE RESIDENT ENGINEER WILL DETERMINE IF TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED, THE SIZE OF THE PROPOSED DITCH CHECKS, THE PROPER METHOD OF INSTALLATION, AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS SHALL BE ADDED WHICH ARE NOT INCLUDED IN THE PLANS. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN STANDARD 280001 OF THE PLANS.

SITE DESCRIPTION

DESCRIPTION OF CONSTRUCTION ACTIVITY:

THIS PROJECT CONSISTS OF REMOVING AND REPLACING EXISTING BRIDGE, SLIGHTLY LOWERING PROFILE OF ROADWAY TO MATCH PROPOSED BRIDGE AND APPROACH SLABS.

DESCRIPTION OF INTENDED SEQUENCE OF ACTIVITIES:

THE SEQUENCE OF EVENTS ARE AS FOLLOW: CLEARING, EMBANKMENT, EXCAVATION, GRADING AND PAVING. THIS PROJECT WILL BE CONSTRUCTED IN SEGMENTS AS SHOWN IN THE "STAGING PLANS".

TOTAL CONSTRUCTION SITE (CONSTRUCTION LIMIT TO CONSTRUCTION LIMIT) 1.75 ACRES
PROPOSED R.O.W (TOTAL PARCEL AREA) 0.29 ACRES
DISTURBED BY EXCAVATION (E.O.P TO CONSTRUCTION LIMIT) 1.75 ACRES

SUPPORTING REPORTS AND PLANS

THE FOLLOWING ASSISTED IN DEVELOPING THE EROSION CONTROL PLAN AS REFERENCED DOCUMENTS:

SOIL PROFILE SHEETS, SOILS REPORTS, BORING LOGS
USGS DRAINAGE MAPS, PROJECT PLAN DOCUMENTS

DRAINAGE TRIBUTARIES RECEIVING WATER FROM CONSTRUCTION SITE

SOUTH BRANCH OTTER CREEK IS RECEIVING WATER

PECATONICA RIVER IS ULTIMATE RECEIVING WATER

EROSION CONTROLS AND SEDIMENT CONTROL PROCEDURES

STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION:

PERIMETER EROSION CONTROL SHALL BE PLACED PRIOR TO BEGINNING EARTHWORK.

STABILIZATION PRACTICES DURING CONSTRUCTION:

AS EARTH EXCAVATION AND EMBANKMENT ARE BEING COMPLETED THE CONTRACTOR SHALL PLACE DITCH CHECKS, INLET AND PIPE PROTECTION, EROSION CONTROL BLANKET, AND SEEDING AS STAGES OF THE PROJECT ARE COMPLETED. PERIMETER EROSION BARRIER WILL BE INSTALLED AT ADDITIONAL LOCATIONS AS THE PROJECT PROGRESSES. SEEDING SHALL BE COMPLETED AS SPECIFIED IN THE EROSION CONTROL/SEEDING MOBILIZATION AND TEMPORARY SEEDING SPECIAL PROVISION.

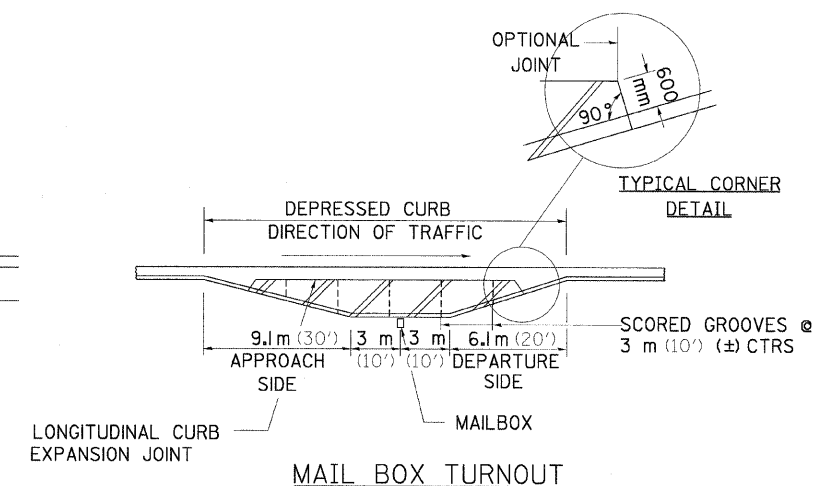
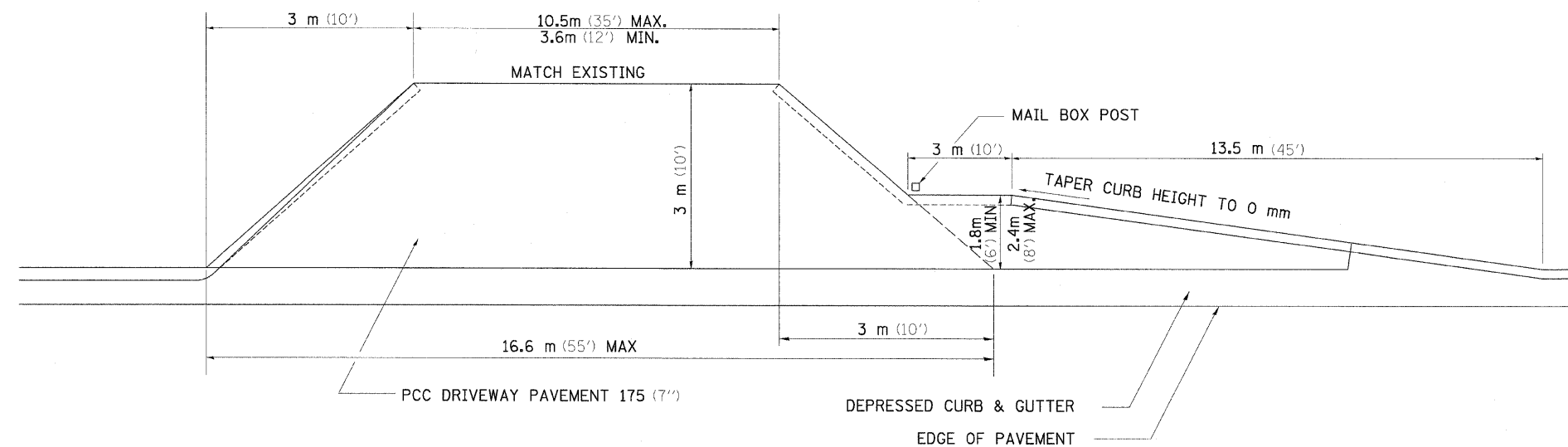
MAINTENANCE AFTER FINAL GRADING

TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS SEEDED AND ESTABLISHED WITH THE PROPER STAND. ONCE PERMANENT EROSION CONTROL SYSTEMS AS PROPOSED IN THE PLANS ARE FUNCTIONAL AND ESTABLISHED, TEMPORARY ITEMS SHALL BE REMOVED, CLEANED UP AND DISTURBED TURF RESEEDED.

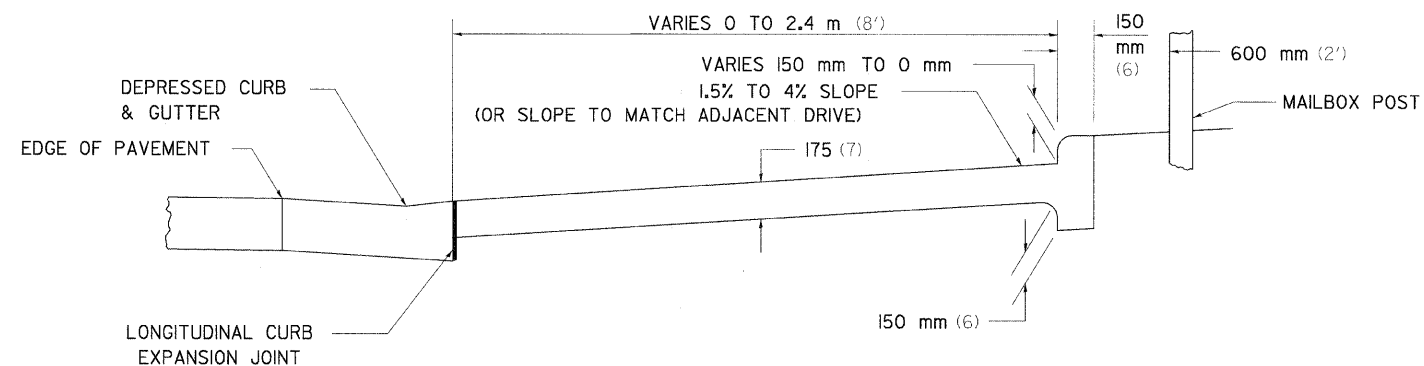
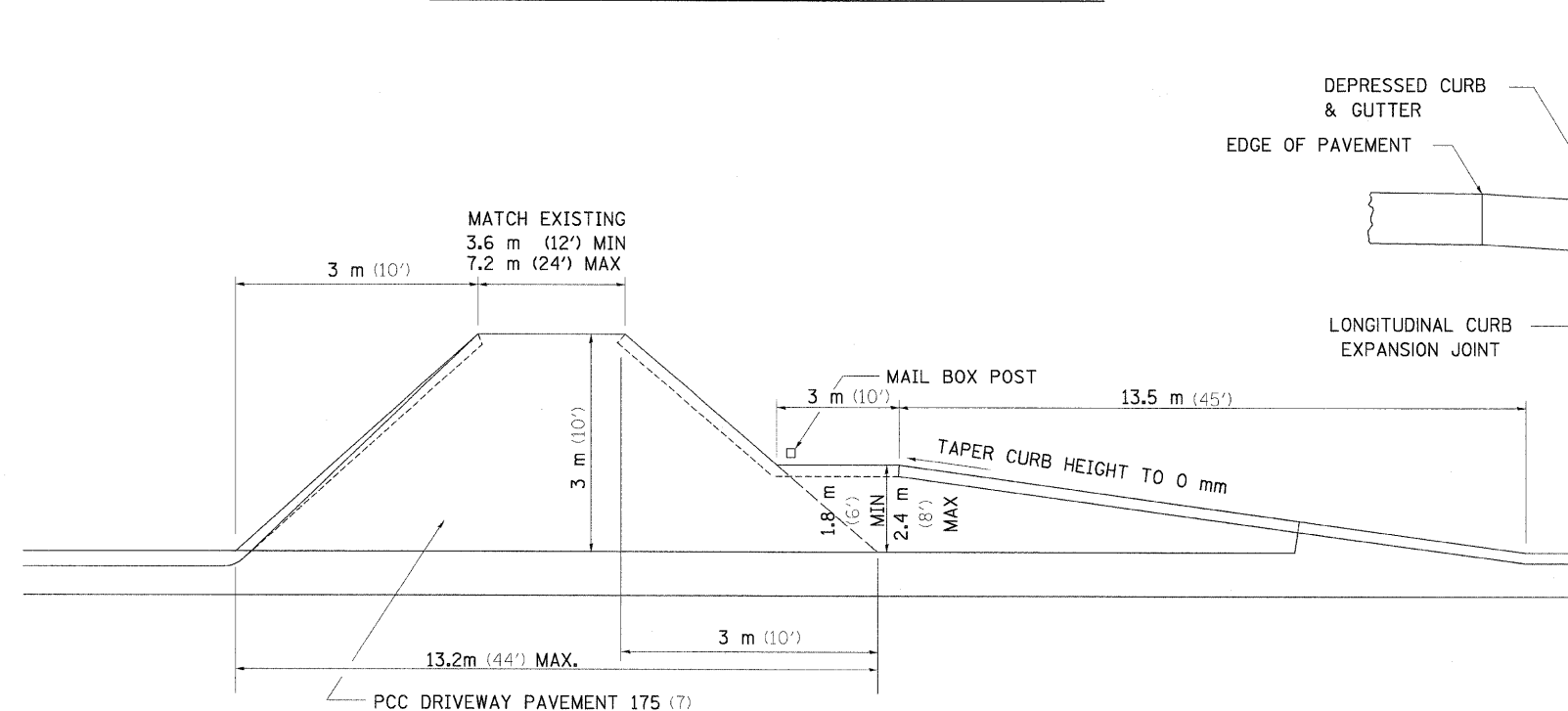
STORM WATER POLLUTION PREVENTION PLAN 2.1

FILE NAME = H:\Projects\2944\DGNS\206207STD2.dgn	USER NAME = @USER@	DESIGNED -	REVISED - 5-12-04	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -							55	(W-1-15d)BR-1	WINNEBAGO	59	47
	PLOT SCALE = 1.000' / IN.	CHECKED -	REVISED -		CONTRACT NO.									
	PLOT DATE = 11/30/2009	DATE -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

MAILBOX TURNOUT IN CURB AND GUTTER SECTION



COMMERCIAL ENTRANCE WITH MAIL BOX TURNOUT



TYPICAL CROSS SECTION

GENERAL NOTES

- 1.) THE LONGITUDINAL CURB EXPANSION JOINT SHALL CONFORM TO SECTION 1051 OF THE STANDARD SPECIFICATIONS.
- 2.) THE MAILBOX TURNOUT CROSS SLOPE WILL BE AS SHOWN ABOVE, AS SHOWN ON THE STATION CROSS SECTIONS OR AS DIRECTED BY THE ENGINEER.
- 3.) THE MAILBOX TURNOUT SHALL BE CONSTRUCTED WITH SCORED GROOVES, AS SPECIFIED IN ARTICLE 423.06 OF THE STANDARD SPECIFICATIONS, AT APPROXIMATELY 3.05 m (10') CENTERS. IN THE EVENT THERE IS EXISTING OR PROPOSED SIDEWALK PRESENT, THESE SCORED GROOVES SHALL BE PLACED IN LINE WITH EVERY OTHER JOINT IN THE ADJACENT SIDEWALK.
- 4.) THE WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD FOR P.C. CONCRETE DRIVEWAY PAVEMENT OF THE THICKNESS SPECIFIED IN THE PLANS WHICH PRICE SHALL INCLUDE THE LONGITUDINAL CURB EXPANSION JOINT, MONOLITHIC CURB AS SHOWN, SCORED GROOVES, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 5.) SEE THE DISTRICT STANDARD 25.1 FOR ADDITIONAL DETAILS.

PRIVATE ENTRANCE WITH MAIL BOX TURNOUT

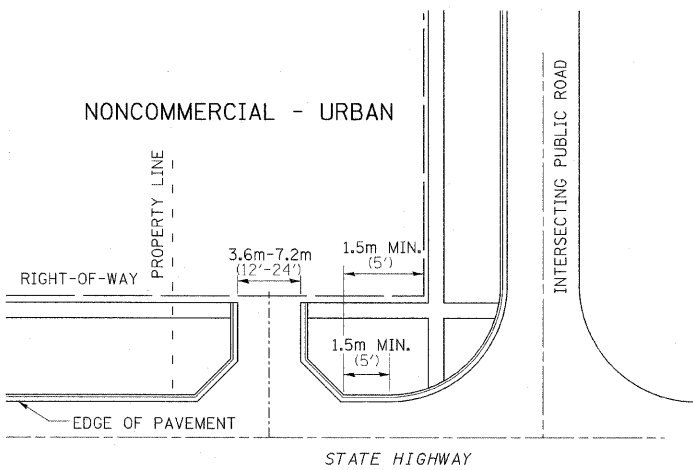
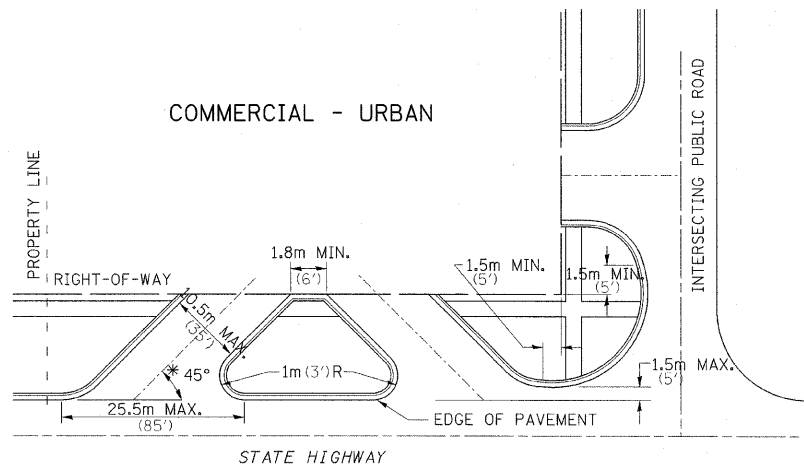
MAILBOX TURNOUT IN CURB AND GUTTER SECTION 3.1

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

FILE NAME =	USER NAME = *USER*	DESIGNED -	REVISED - 1-15-08	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
H:\Projects\2944\DGNS\2062075TD2.dgn		DRAWN -	REVISED -			55	(W-1-15d)BR-1	WINNEBAGO	59	48	
PLOT SCALE = 1.000' / IN.	CHECKED -	REVISED -				CONTRACT NO.					
PLOT DATE = 11/30/2009	DATE -	REVISED -				SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FEED, ROAD DIST. NO.

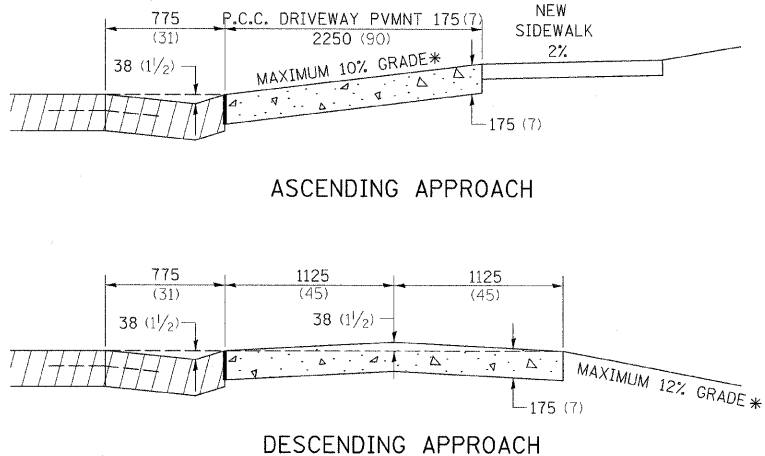
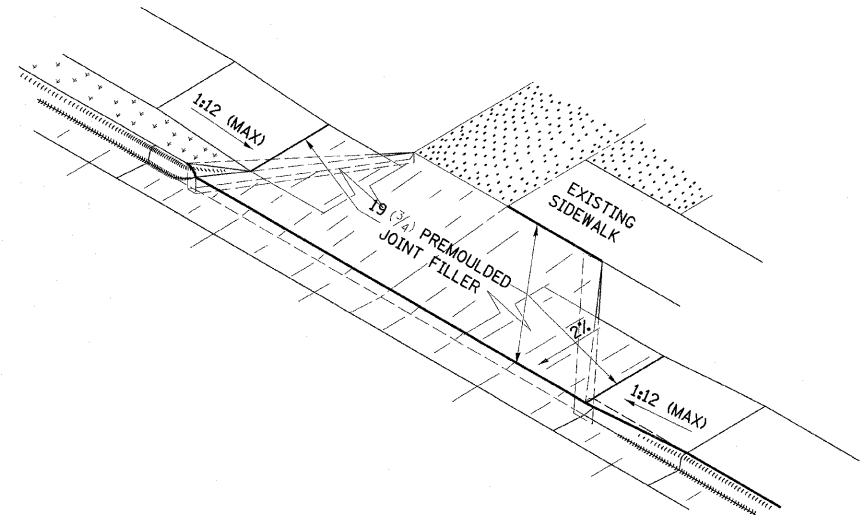
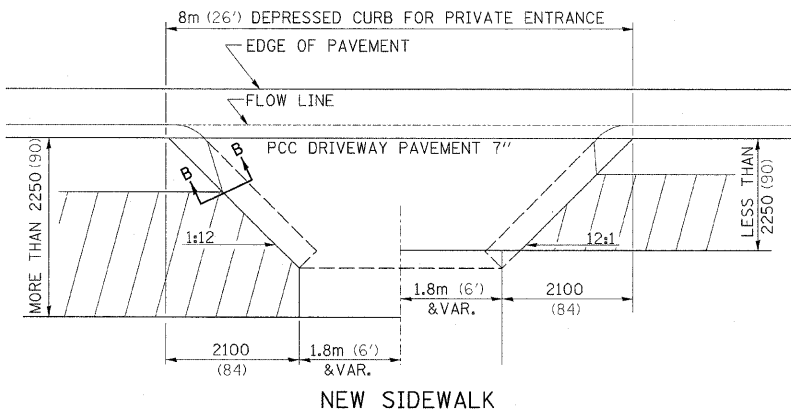
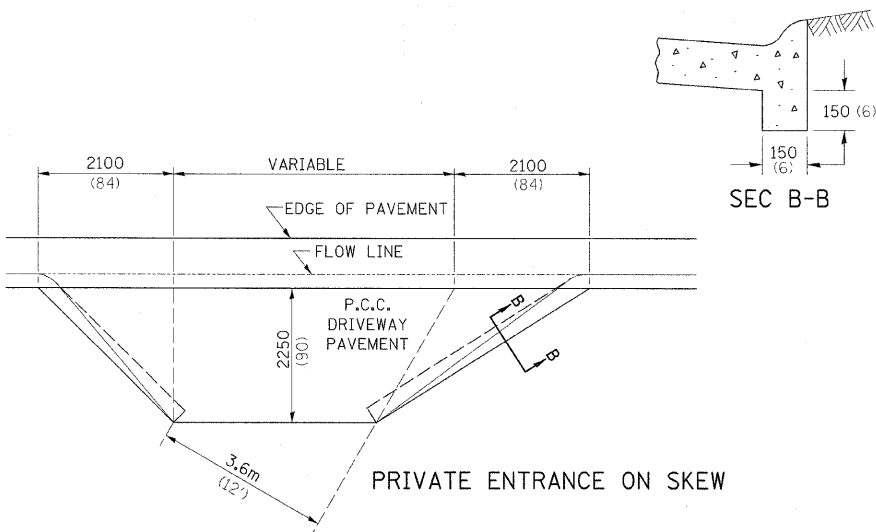
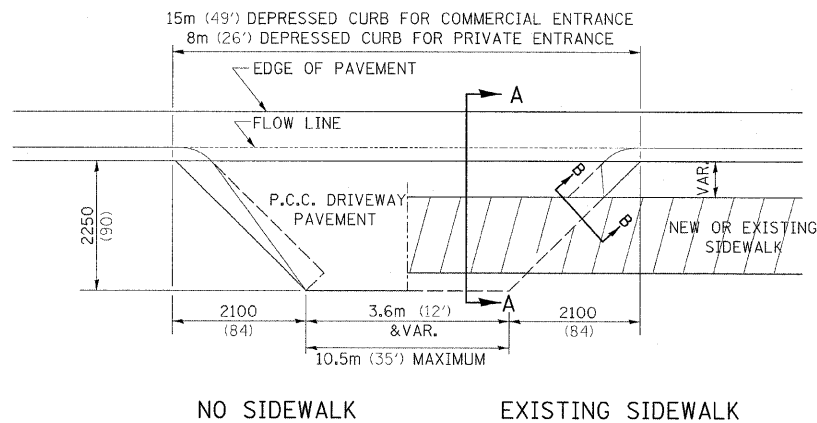
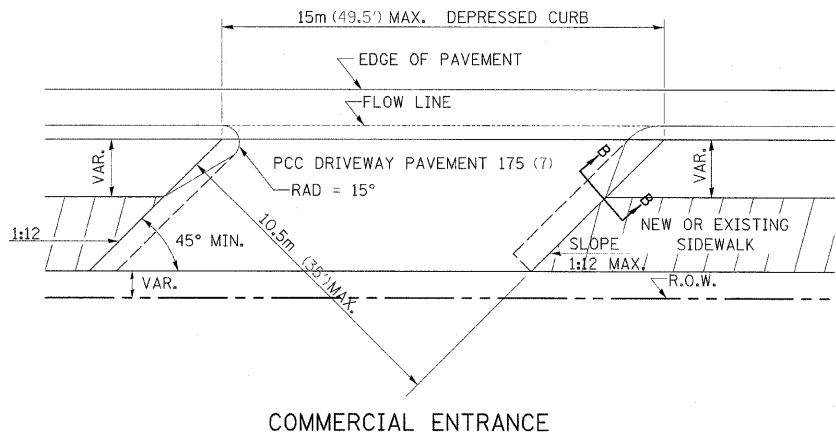
ENTRANCE APPROACHES – URBAN AREA

TYPICAL APPLICATION OF ENTRANCES

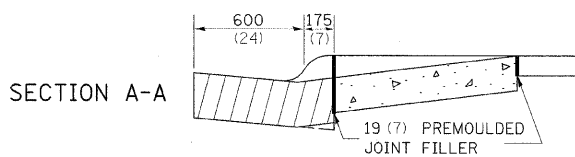


WHEN THE ISLAND BETWEEN DRIVES IS LESS THAN 7.5m (25') LONG OR LESS THAN 10 FEET WIDE, IT SHALL BE DEFINED BY CURBS, MASONRY, OR OTHER DEVICES.

* 45° MIN. ANGLE PERMITTED ONLY FOR ONE-WAY DRIVEWAYS. 60° MIN. ANGLE FOR TWO-WAY DRIVEWAYS.



* IN CASES WHERE GRADE EXCEEDS 10%, THE RESIDENT ENGINEER SHALL CHECK WITH DISTRICT DESIGN OFFICE TO DETERMINE NEW APPROACH GRADE. PARTICULAR ATTENTION SHALL BE PAID TO THE NEGATIVE GRADE TO PREVENT DRAINAGE FROM OVER FLOWING INTO THE PRIVATE ENTRANCE.



THE VARIABLE HEIGHT INTEGRAL CURB AND PREMOULDED JOINT FILLER WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE OF DRIVEWAY PAVEMENT OF THE THICKNESS SPECIFIED.

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

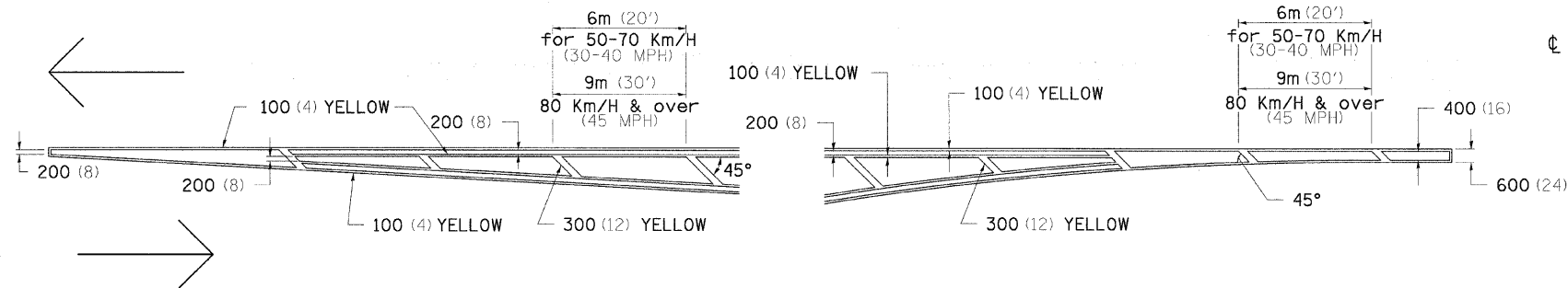
ENTRANCE APPROACHES – URBAN AREA

25.1

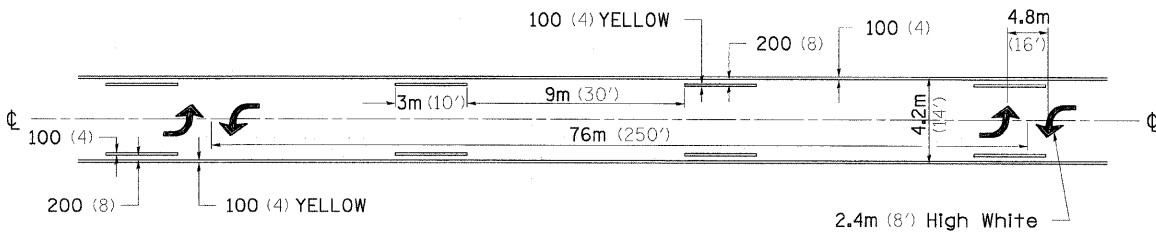
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H:\Projects\2944\DCNS\2062075102.dgn		DRAWN -	REVISED -			55	(W-1-15d)BR-1	WINNEBAGO	59	49
PLOT SCALE = 1:800' / IN.		CHECKED -	REVISED -			CONTRACT NO.				
PLOT DATE = 11/30/2009		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

TYPICAL PAVEMENT MARKINGS

TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN AT LEFT TURN LANE

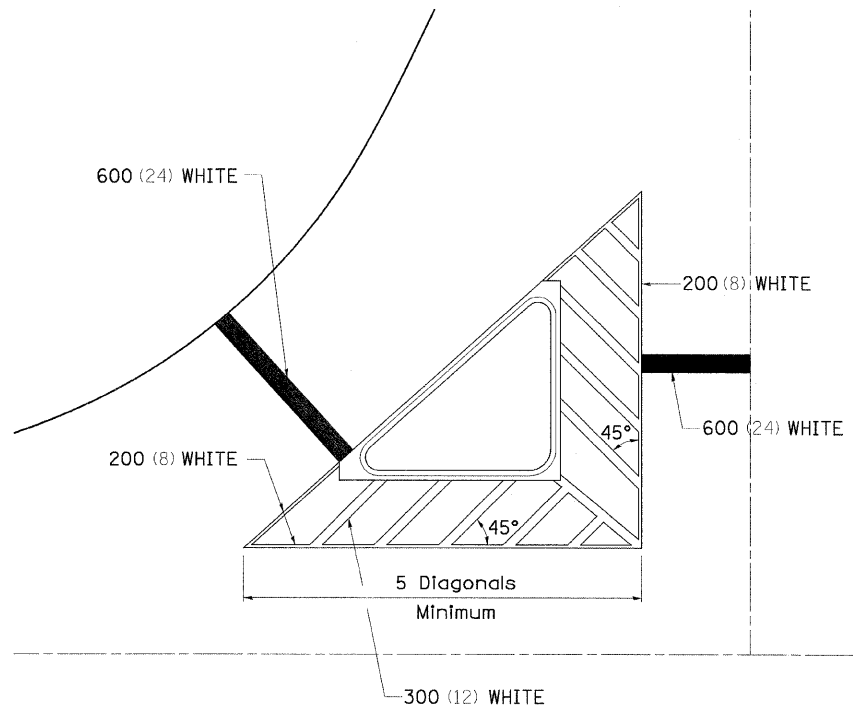


MEDIAN PAVEMENT MARKING

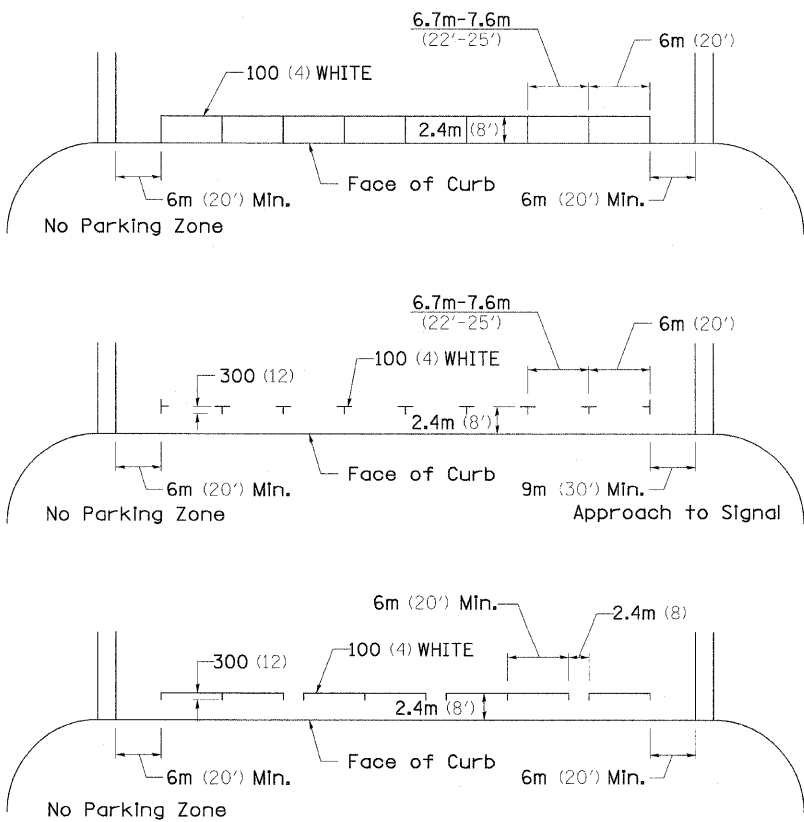


** ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

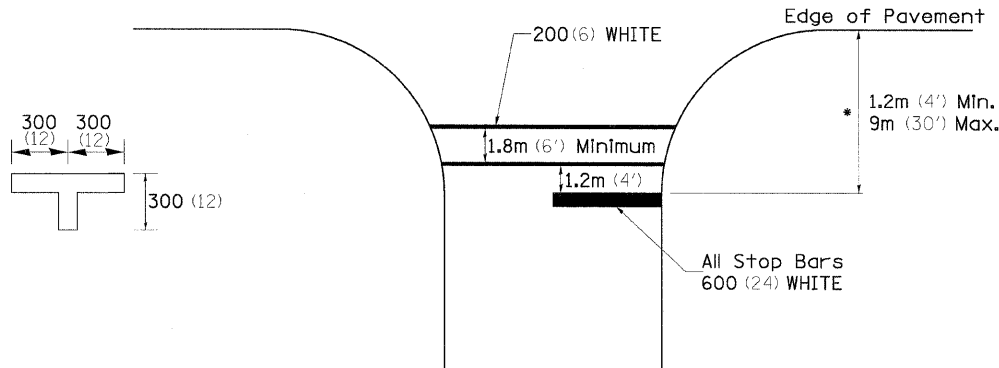
TYPICAL ISLAND OFFSET SHOULDER WIDTH



TYPICAL PARKING SPACING



STANDARD CROSSWALK MARKING See Schedules for Locations

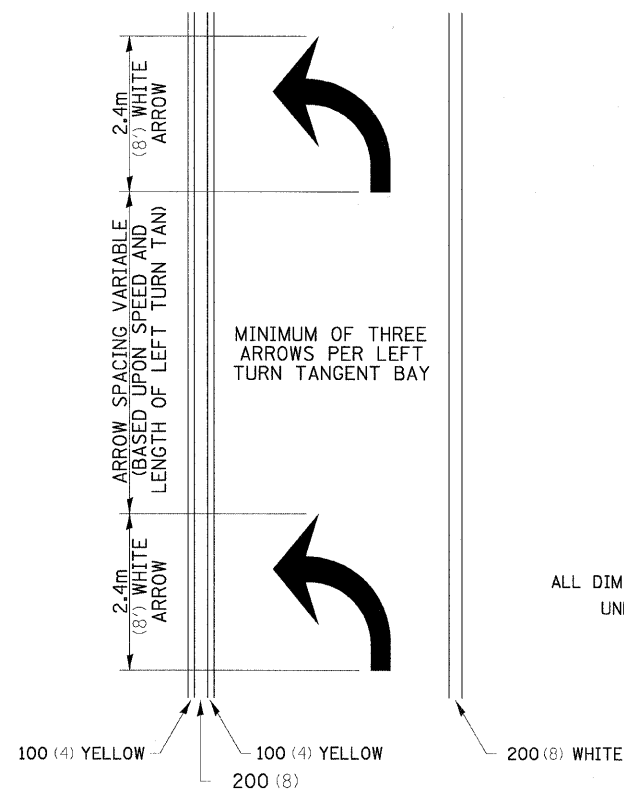


* Distance to the nearest edge of the intersecting roadway in the absence of a marked crosswalk.

FILE NAME =	USER NAME = @USER@	DESIGNED -	REVISED - 10-21-08	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REGION 2 / DISTRICT 2 STANDARD	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
H:\Projects\2944\DNS\Z662075D2.dgn		DRAWN -	REVISED -			55	(W-1-15)BR-1	WINNEBAGO	59	50
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	PLOT DATE = 11/30/2009	DATE -	REVISED -			FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

TYPICAL PAVEMENT MARKINGS

ARROW LAYOUT



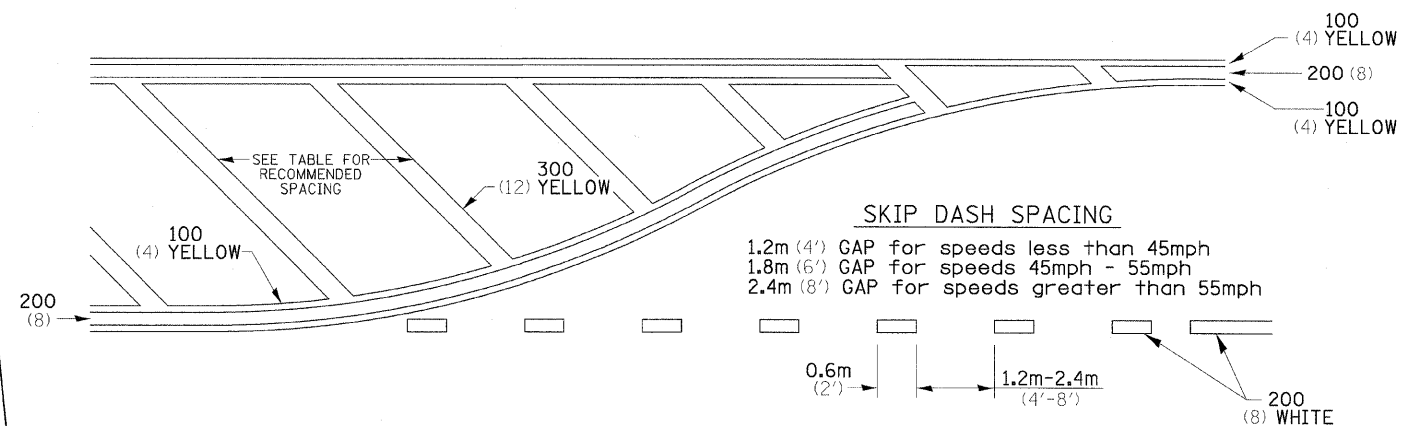
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES)
UNLESS OTHERWISE NOTED.

- ◀ ONE-WAY
AMBER MARKER
- ◁ ONE-WAY
CRYSTAL MARKER
- ◆ TWO-WAY
AMBER MARKER

12.2m
6 at (40') O.C.
APPROACH SIDE ONLY

See Typical —
Drawing at right

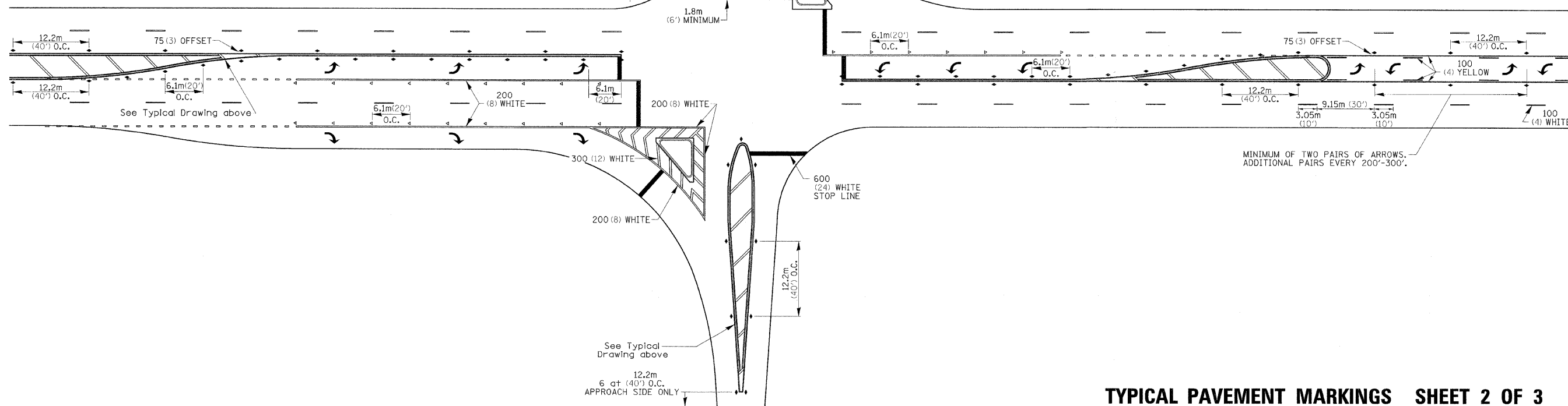
TYPICAL PAVEMENT MARKING FOR FLUSH MEDIAN



RECOMMENDED SPACING BETWEEN DIAGONALS (IN FEET)

Speed Limit Range	Continuous Median Area	Intersection Channelization	Objects (Islands)
less than 50Km/H (30MPH)	15.3m (50')	4.53m (15')	3.05m (10')
50-60Km/H (30-40MPH)	22.9m (75')	6.1m (20')	4.53m (15')
70Km/H (45MPH) & over	22.9m (75')	9.05m (30')	6.1m (20')

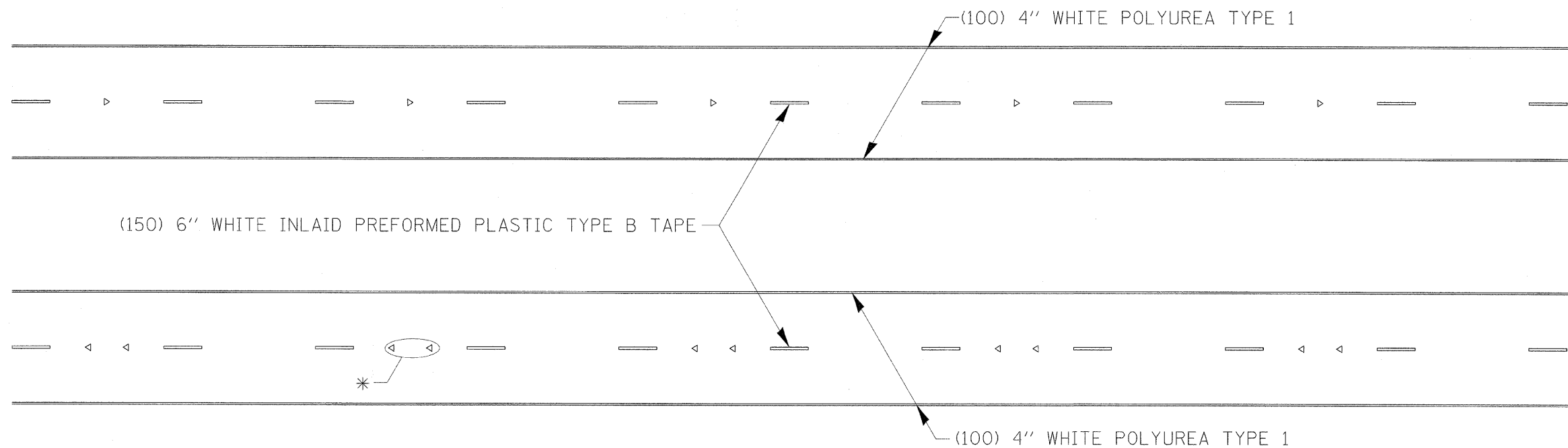
NOTE: If the spacing recommended in the Table does not permit at least five diagonal lines in the area being marked, the spacing from the next lowest speed range should be used. The recommended spacing is measured parallel to the pavement center line.



TYPICAL PAVEMENT MARKINGS SHEET 2 OF 3 41.1

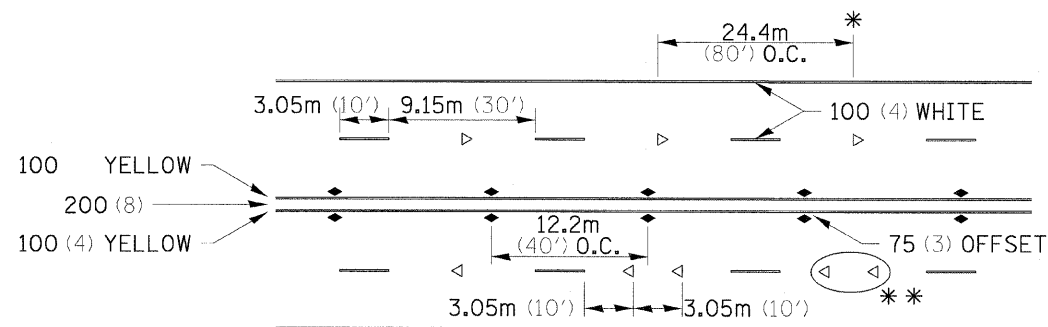
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	PLOT DATE = 11/30/2009	DATE -	REVISED -										
					SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	EED ROAD DIST. NO. ILLINOIS EED AND PROJECT		

TYPICAL PAVEMENT MARKINGS



* SEE HIGHWAY STANDARD 781001 FOR SPACING DETAILS.
USE DOUBLE MARKERS WHEN ADT $\geq$ 25,000.

MULTI-LANE / DIVIDED

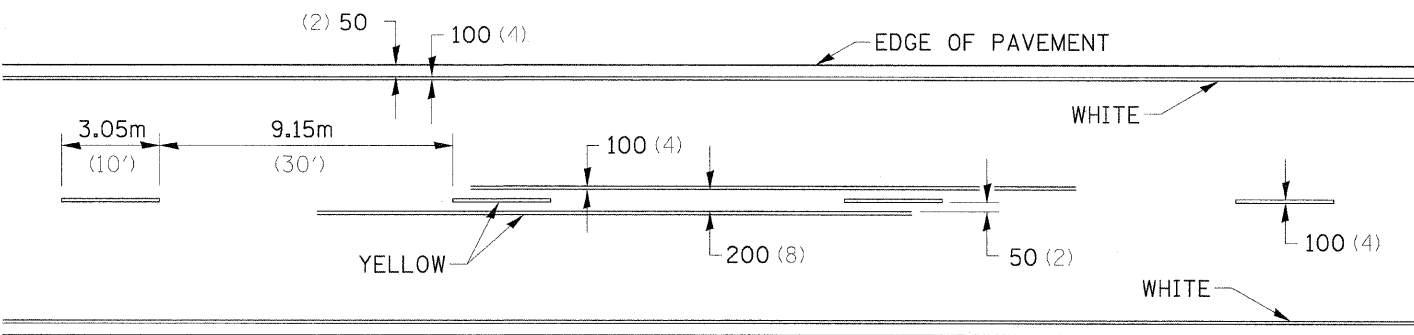


* REDUCE TO 12.2m (40') O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 15Km/H (10MPH) LOWER THAN POSTED SPEEDS.
** USE DOUBLE MARKERS WHEN ADT $\geq$ 25,000

MULTI-LANE / UNDIVIDED

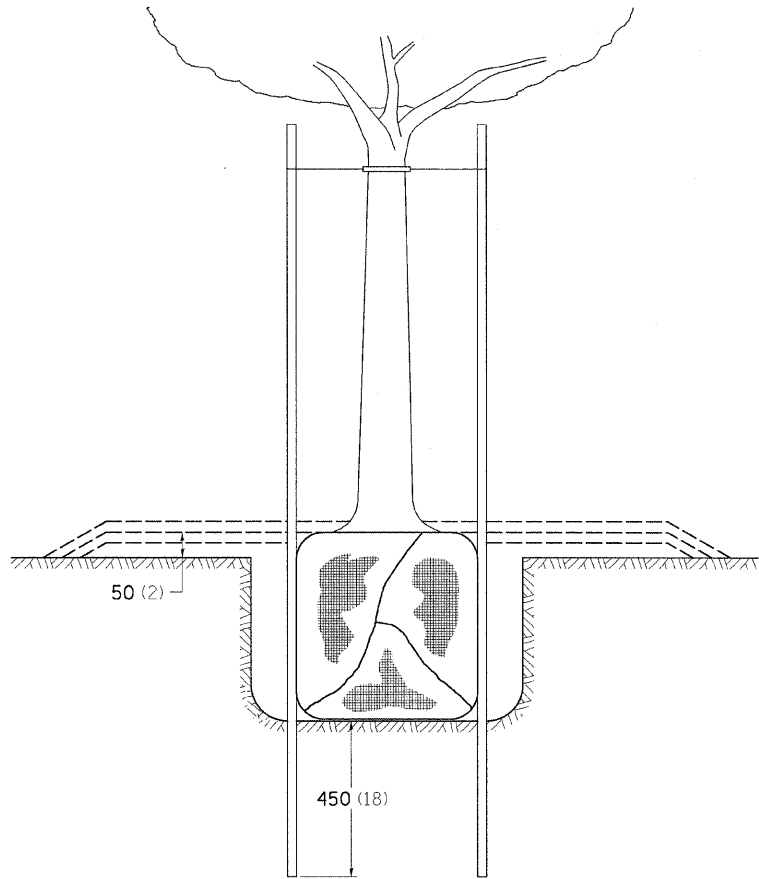
SYMBOLS

TYPICAL PAVEMENT MARKING FOR TWO LANE SECTION – NO PASSING ZONES

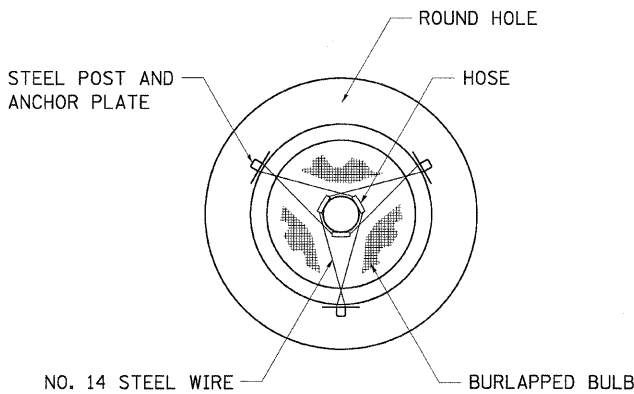


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	PLOT DATE = 11/30/2009	DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
				SCALE:		SHEET NO. OF SHEETS		STA. TO STA.		

DETAILS OF PLANTING AND BRACING TREES

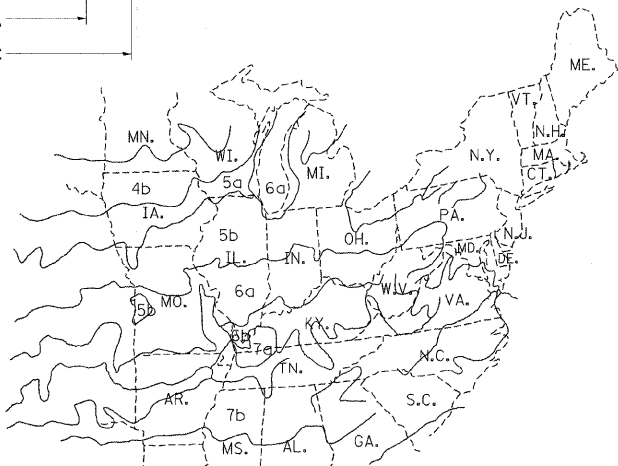
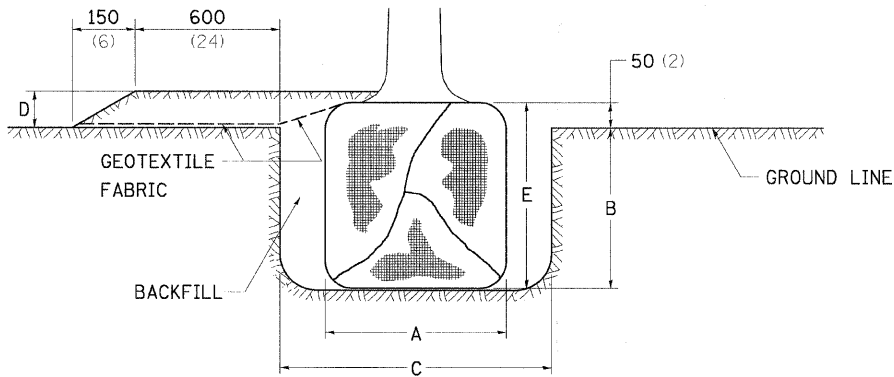


TREES SMALLER THAN 115 (4 1/2) IN DIAMETER



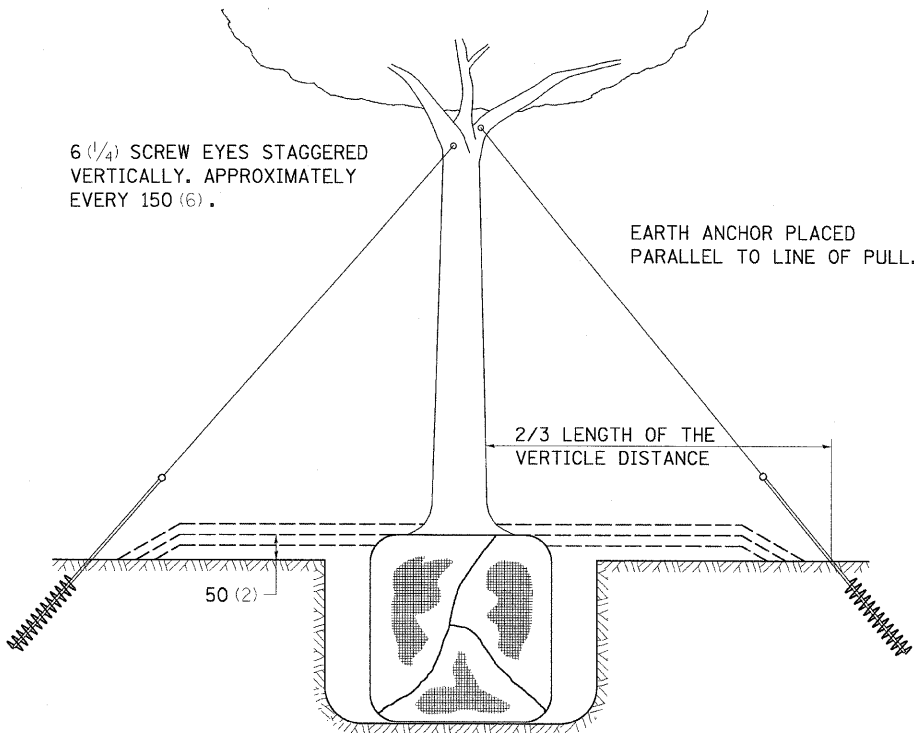
SMALL	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER m ³ (CU. YDS.)
1.5-1.8m (5'-6')	400 (16)	250 (10)	750 (30)	100 (4)	300 (12)	0.41 (0.54)
1.5-1.8m (5'-6') BB	400 (16)	250 (10)	750 (30)	100 (4)	300 (12)	0.41 (0.54)
1.8-2.0m (6'-7') BB	450 (18)	300 (12)	750 (30)	100 (4)	350 (14)	0.41 (0.54)
2.0-2.4m (7'-8') BB	500 (20)	275 (11)	750 (30)	100 (4)	325 (13)	0.41 (0.54)
2.4-3.0m (8'-10') BB	600 (24)	350 (14)	900 (36)	100 (4)	400 (16)	0.47 (0.61)
3.0-3.6m (10'-12') BB	650 (26)	375 (15)	900 (36)	100 (4)	425 (17)	0.47 (0.61)

LARGE	A	B	C	D	E	F
TREE SIZE	DIAMETER OF BALL OR ROOT SYS.	DEPTH OF HOLE EXCAVATION	WIDTH OF HOLE EXCAVATION	THICKNESS OF MULCH COVER	DEPTH OF BALL OR ROOT SYS.	VOLUME OF MULCH COVER m ³ (CU. YDS.)
0-50 (0-2)	500 (20)	275 (11)	900 (36)	100 (4)	325 (13)	0.47 (0.61)
50-65 (2-2 1/2) BB	600 (24)	350 (14)	1200 (48)	100 (4)	400 (16)	0.60 (0.78)
65-75 (2 1/2-3) BB	700 (28)	425 (17)	1200 (48)	100 (4)	475 (19)	0.60 (0.78)
75-90 (3-3 1/2) BB	800 (32)	425 (17)	1500 (60)	100 (4)	475 (19)	0.73 (0.96)
90-100 (3 1/2-4) BB	900 (36)	500 (20)	1500 (60)	100 (4)	550 (22)	0.73 (0.96)
100-115 (4-4 1/2) BB	1000 (40)	550 (22)	1800 (72)	100 (4)	600 (24)	0.89 (1.16)
115-125 (4 1/2-5) BB	1100 (44)	600 (24)	1800 (72)	100 (4)	650 (26)	0.89 (1.16)
125-140 (5-5 1/2) BB	1200 (48)	675 (27)	2100 (84)	100 (4)	725 (29)	1.06 (1.38)

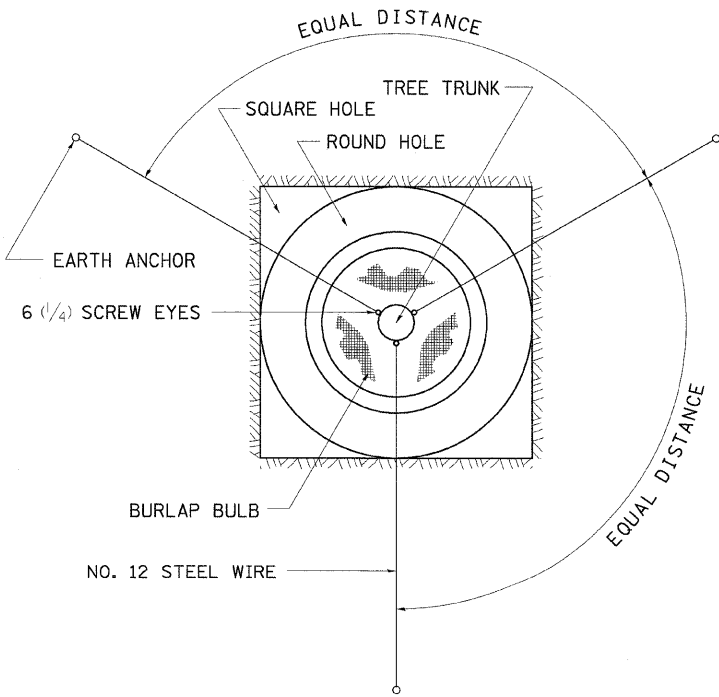


PLANT HARDINESS ZONE MAP

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE
PUBLICATION NO. 814



TREES OVER 115 (4 1/2) IN DIAMETER



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

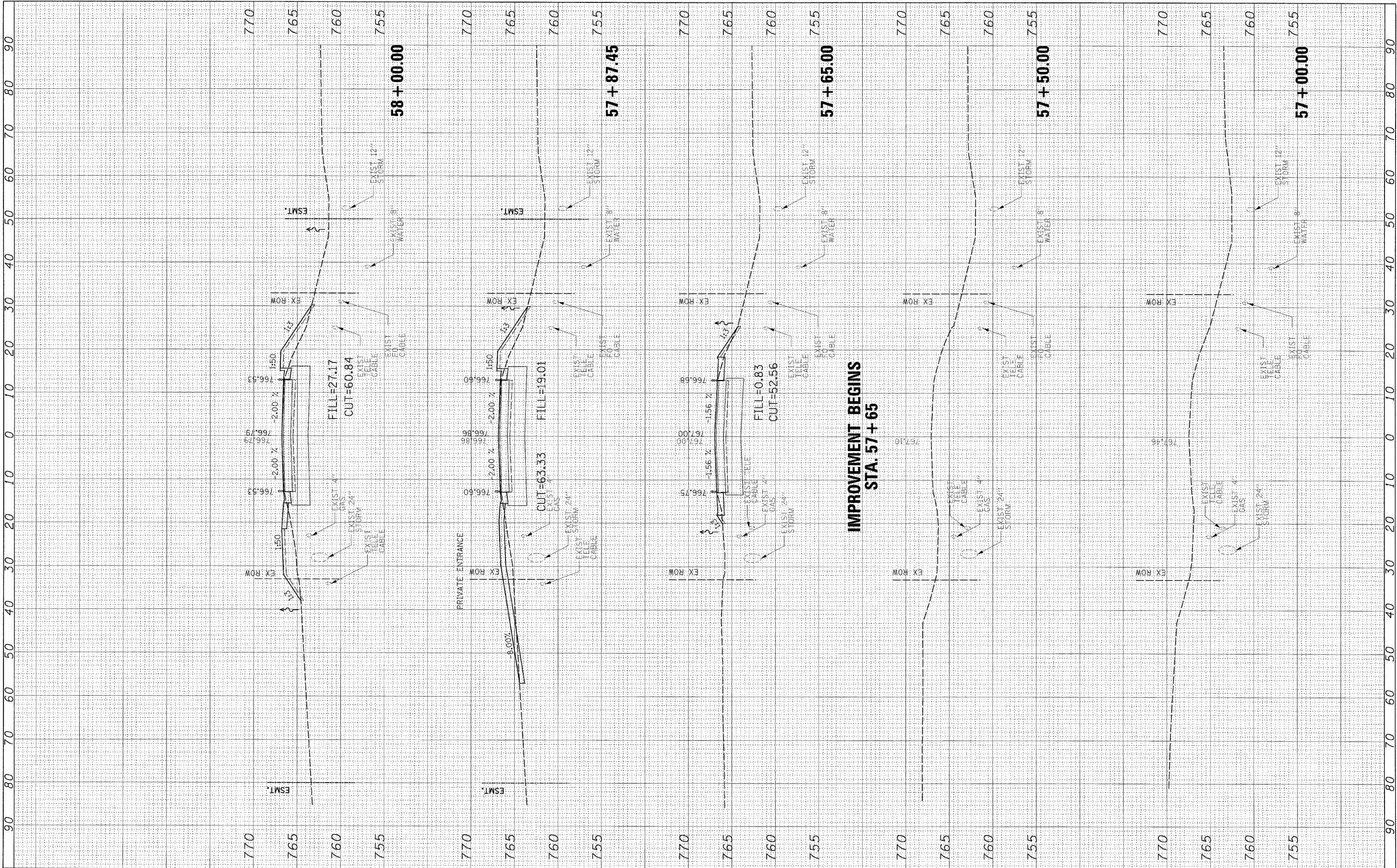
DETAILS OF PLANTING AND BRACING TREES

92.1

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	PLOT SCALE = 1.000 "/ IN.	DRAWN -	REVISED -							
	PLOT DATE = 11/30/2009	CHECKED -	REVISED -							
		DATE -	REVISED -							

ORIGINAL SURVEY	BY	DATE
NO. _____	_____	_____
NO. _____	_____	_____
NO. _____	_____	_____

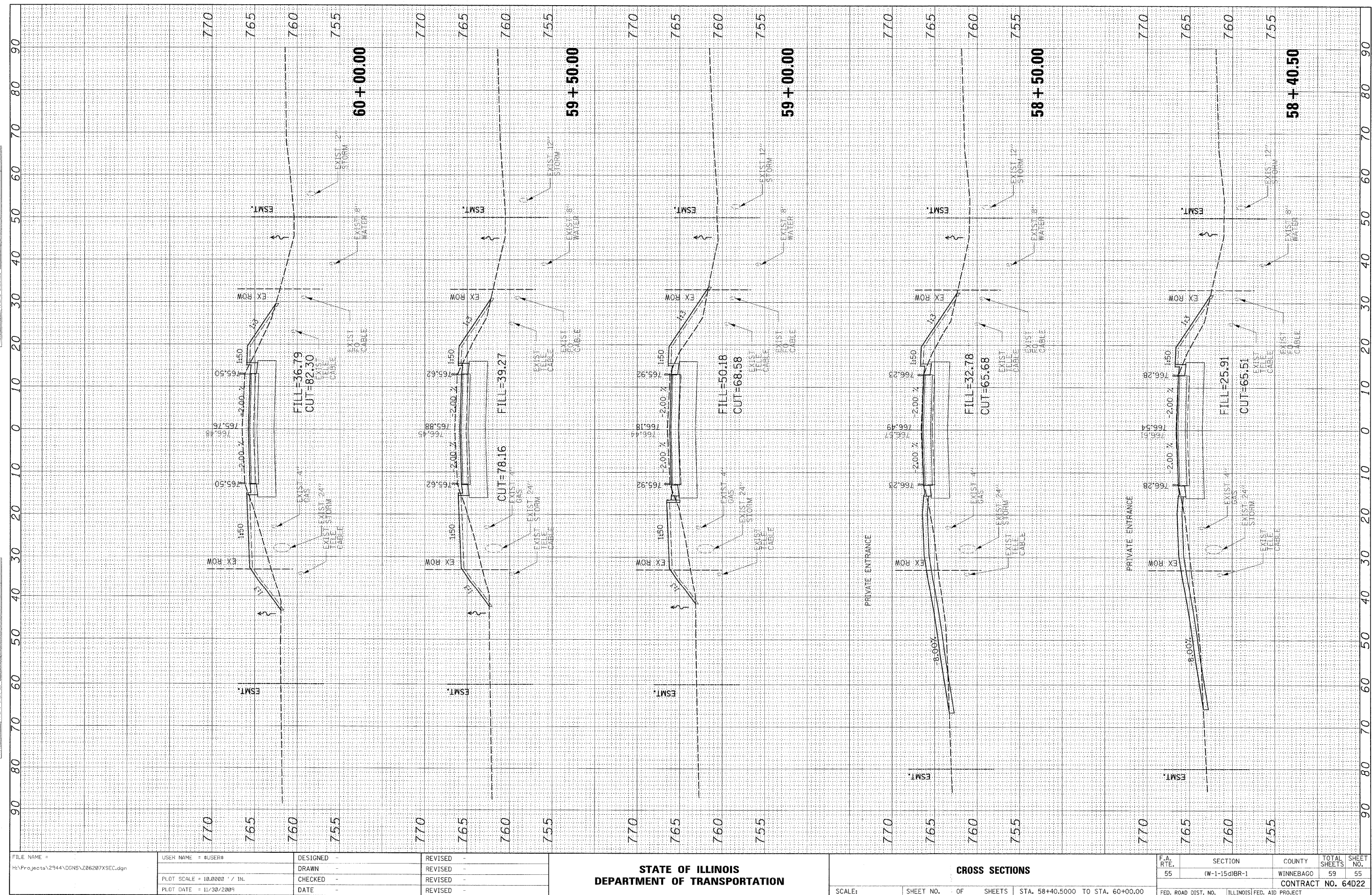
FINAL SURVEY	BY	DATE
NO. _____	_____	_____
NO. _____	_____	_____
NO. _____	_____	_____



FILE NAME = H:\Projects\2944\06NS\206207XSEC.dgn	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS	SCALE: SHEET NO. OF SHEETS STA. 57+00.00 TO STA. 58+00.00	F.A. RTE. 55	SECTION (W-1-15d)BR-1	COUNTY WINNEBAGO	TOTAL SHEETS 59	SHEET NO. 54
	PLOT SCALE = 10.0000' / IN.	DRAWN -	REVISED -								
	PLOT DATE = 11/30/2009	CHECKED -	REVISED -								
		DATE -	REVISED -								

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NOTE BOOK	PLOTTED		
	TEMPLATE		
	AREAS		
NO. _____	AREAS CHECKED		

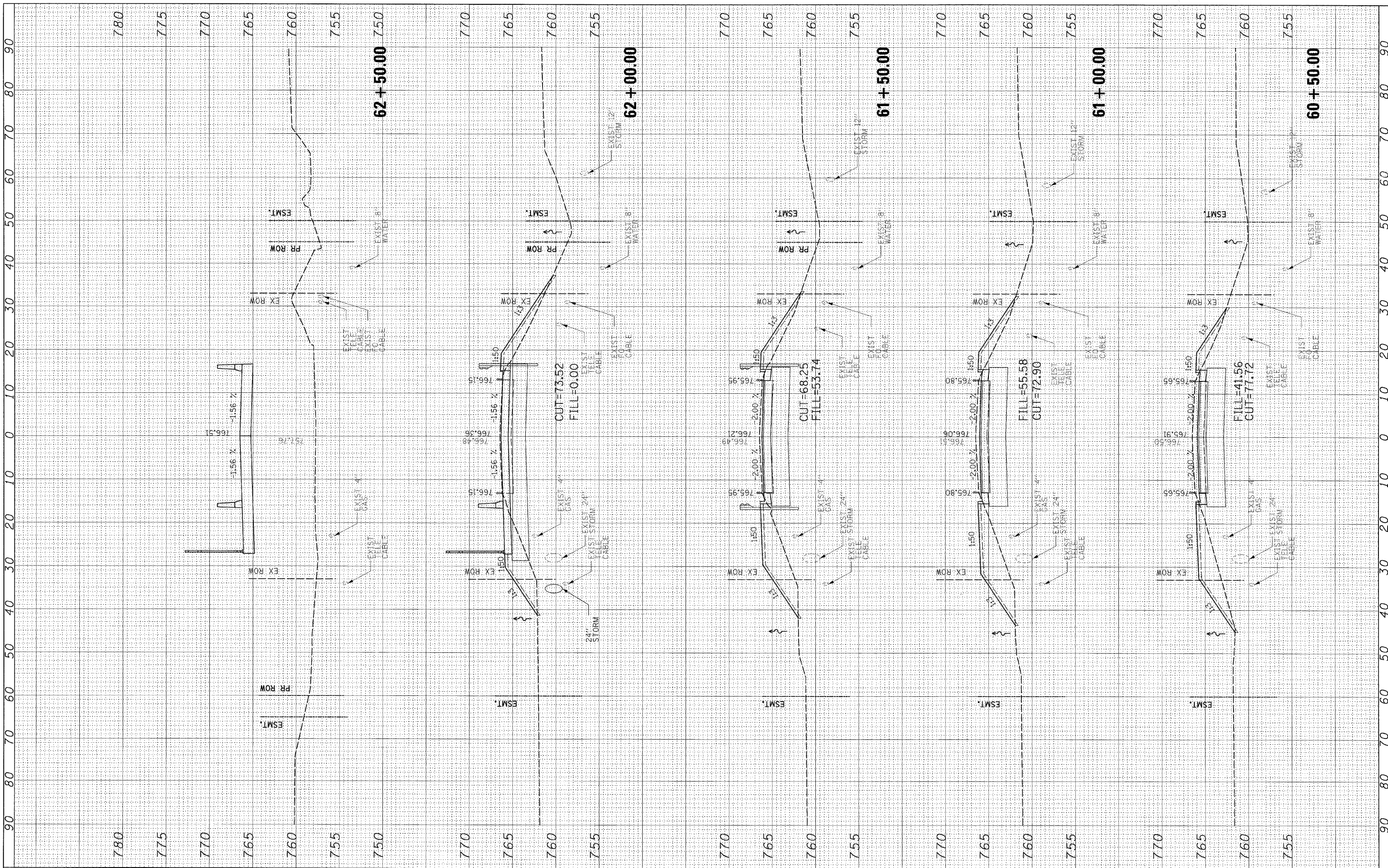
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NOTE BOOK	PLOTTED _____	TEMPLATE _____	
NO. _____	AREAS _____	AREAS CHECKED _____	



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	(W-1-15d)BR-1	WINNEBAGO	59	55
CONTRACT NO. 64D22				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

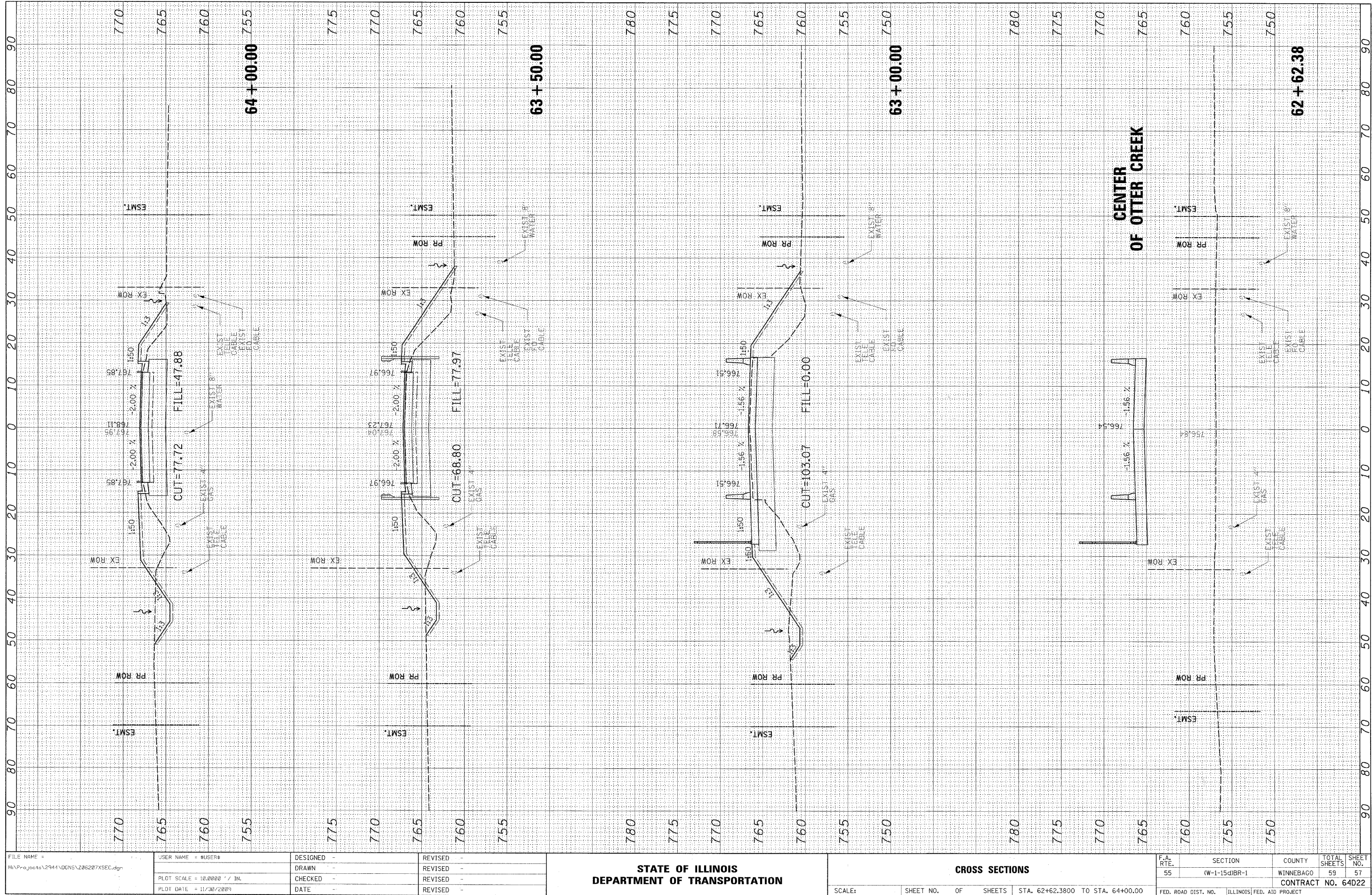
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SURVEY	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		

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



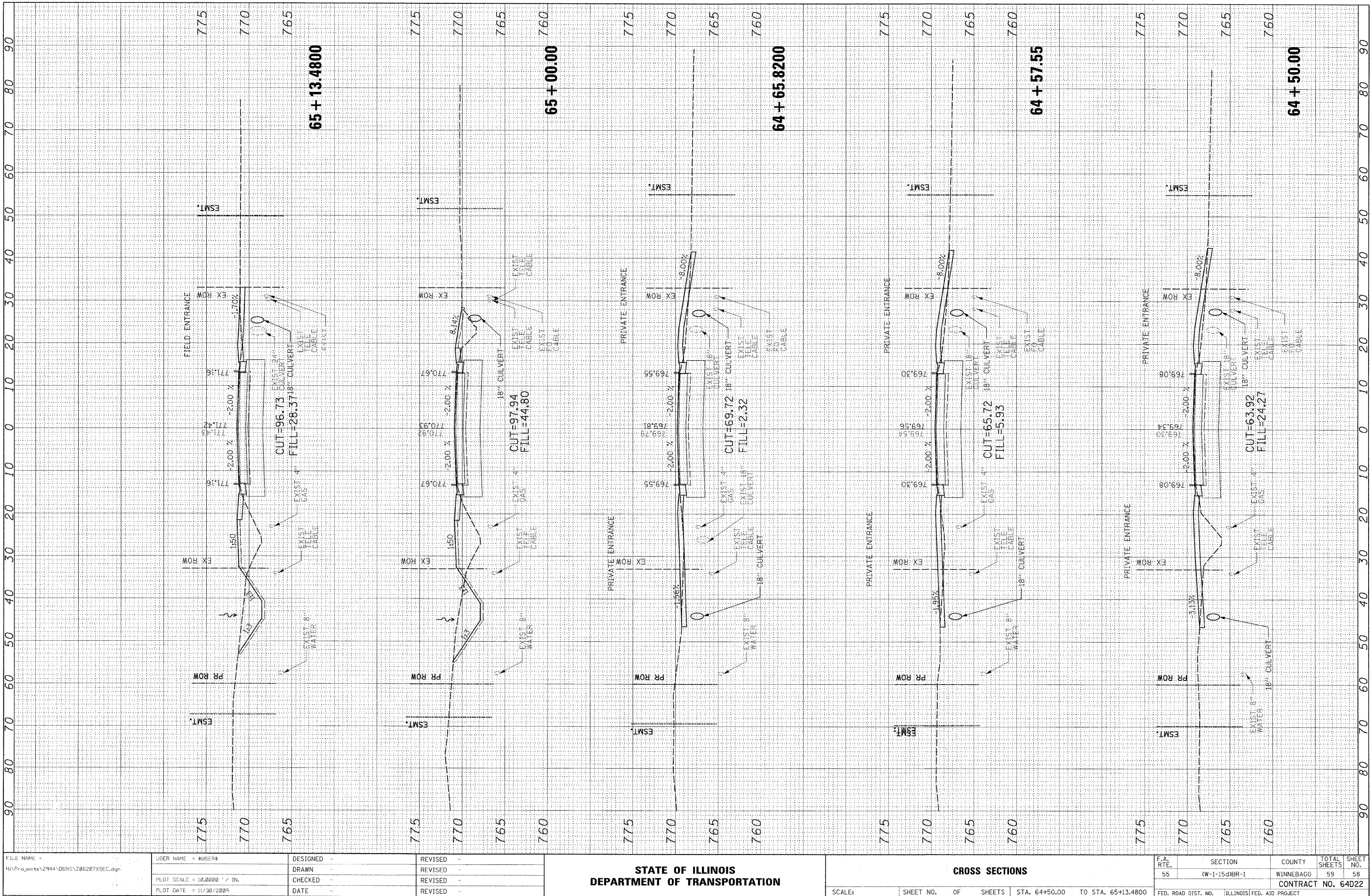
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NOTE BOOK	PLOTTED		
NO.	DATE		
	AREAS CHECKED		

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



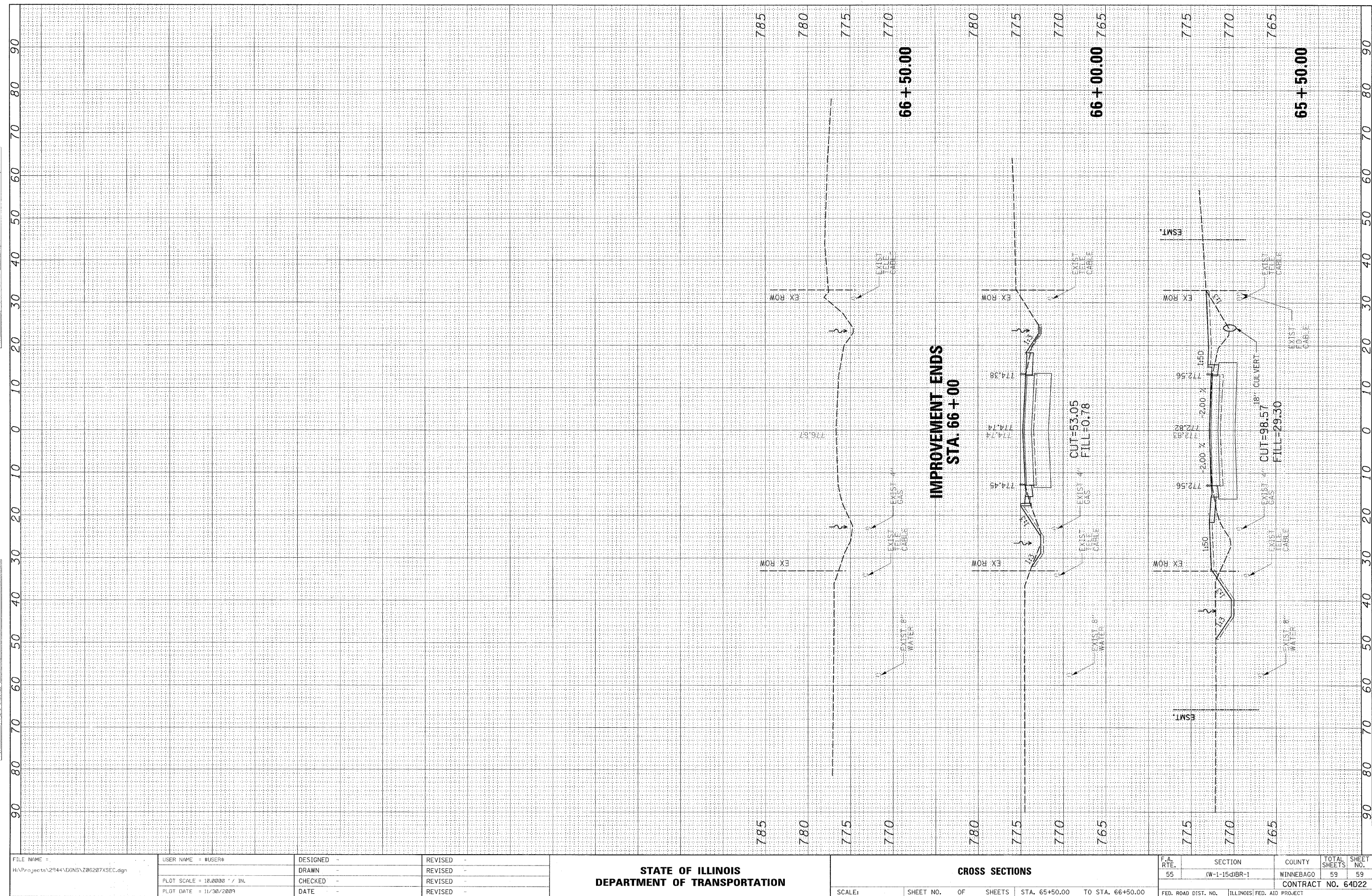
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SURVEY	PLOTTED		
NOTE BOOK	REMARKS		
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ORIGINAL	SURVEY	BY	DATE
SURVEY	PLOTTED		
NOTE BOOK	REMARKS		
NO.	AREAS CHECKED		



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PLOT SCALE = 10.0000' / IN.	PLOT DATE = 11/30/2009	DRAWN -	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA. 64+50.00	TO STA. 65+13.4800	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 64022
		CHECKED -	REVISED -									
		DATE -	REVISED -									

ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
	AREAS		
	CHECKED		
NO.			



FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
H:\Projects\2944\DDNS\Z05207XSEC.dgn		DRAWN	REVISED							55	(W-1-15d)BR-1	WINNEBAGO	59	59
	PLOT SCALE = 10.0000' / IN.	CHECKED -	REVISED -							CONTRACT NO. 64D22				
	PLOT DATE = 11/30/2009	DATE	REVISED		SCALE:	SHEET NO.	OF	SHEETS	STA. 65+50.00	TO STA. 66+50.00	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		