8-4-06 Letting, Item 045

CONTRACT NO. 60A70

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	1

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

F.A.I. ROUTE 55 (INTERSTATE 55)
SIGNING
FROM SOUTH OF I-80 TO NORTH OF US ROUTE 52

SECTION: 2005-062 I
PROJECT NO.: IM-055-6(223)250

WILL COUNTY
C-91-095-06

FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA

ADT (2030) :
US 6 to I-80 = 64,000
I-80 to IL 59 = 83,000
IL 59 to U.S. 52 = 56,000
U.S. 52 to U.S. 30 = 60,000

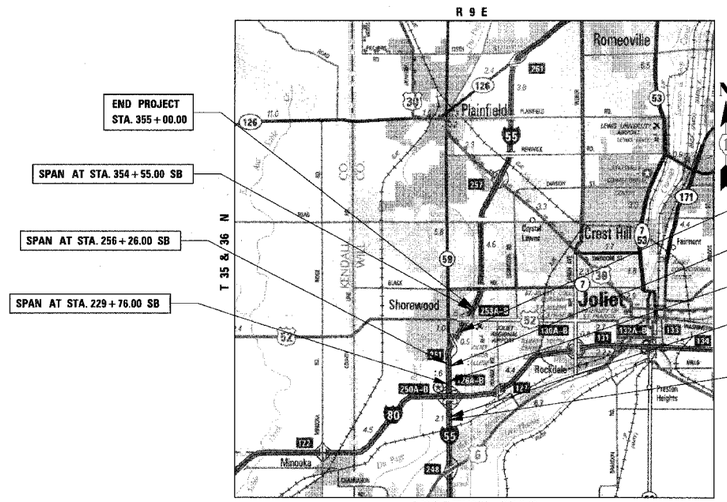
POSTED SPEED :
I-55 = 65 mph

DESIGN DESIGNATION :
N/A

MICROFILMED _____
REEL NUMBER _____
AWARDED _____
RESIDENT ENGINEER _____
AS BUILT CHANGES WERE MADE
ON THE FOLLOWING SHEETS _____

D-91-093-05

LOCATION OF SECTION INDICATED THUS: -



LOCATION MAP
NOT TO SCALE

100' 200' 300' — 1" = 100'
0 10' 20' 30' — 1" = 10'
0 50' 100' — 1" = 50'
0 50' 100' — 1" = 40'
0 50' 100' — 1" = 30'
0 50' 100' — 1" = 20'

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

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

CONTRACT NO. 60A70

DISTRICT 1 - DESIGN /CONSULTANT SERVICES
PROJECT MANAGER: RAJENDRA SHAH 847-705-4555

DOUGLAS D. HANSEN
062-45293
REGISTERED PROFESSIONAL ENGINEER
ILLINOIS

DOUGLAS D. HANSEN, P.E.
IL. REG. NO. 062-045293
EXPIRES: 11/30/2007
DATE: 5/9/06

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED May 12 20 06
Diane M. O'Keefe /cd
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
June 30, 20 06
Mike Hine /cd
ENGINEER OF DESIGN AND ENVIRONMENT
June 30, 20 06
Milton R. Sees, P.E. /cd
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	2
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

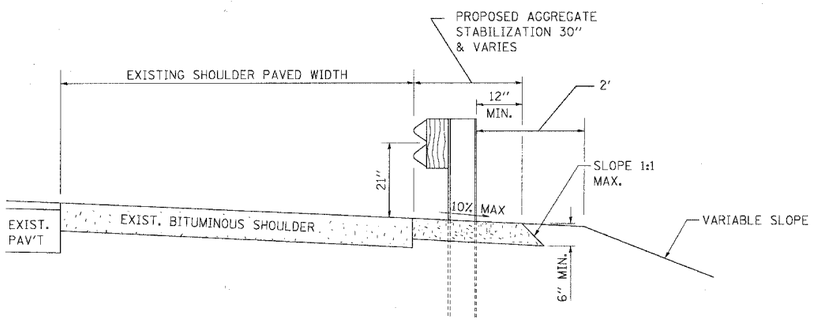
INDEX OF SHEETS

HIGHWAY STANDARDS

STD. NO.	DESCRIPTION
000001-04	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-02	TEMPORARY EROSION CONTROL SYSTEMS
630001-06	STEEL PLATE BEAM GUARDRAIL
630201-03	PCC/BITUMINOUS STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-03	SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TERMINALS
631011-02	TRAFFIC BARRIER TERMINAL TYPE 2
635006-02	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-01	REFLECTOR MARKER AND MOUNTING DETAILS
701101-01	OFF-ROAD OPERATIONS, MULTILANE LESS THAN 4.5M (15') AWAY FROM PAVEMENT EDGE
701400-02	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-03	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-03	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS => 45MPH
702001-00	TRAFFIC CONTROL DEVICES

DISTRICT ONE DETAILS (INCLUDED IN PLANS)

STD. NO.	DESCRIPTION
TC17	TRAFFIC CONTROL FOR SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES



NOTES

1. BACKFILL VOIDS AROUND POSTS DRIVEN THROUGH THE AGGREGATE STABILIZATION WITH THE SAME MATERIAL USED FOR THE SHOULDER STABILIZATION.
2. REFER TO STANDARD 630201 FOR DETAILS NOT SHOWN.

PROPOSED AGGREGATE STABILIZATION AT PROPOSED GUARDRAIL
DETAIL A

GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOURS NOTIFICATION REQUIRED)
2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
4. BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS ON EACH TYPE I OR TYPE II BARRICADE USED - ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL.
5. WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
6. THE COST OF EARTH EXCAVATION REQUIRED FOR THE CONSTRUCTION OF PROPOSED AGGREGATE SHOULDERS, TYPE B 6" SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER SQ YD FOR AGGREGATE SHOULDERS, TYPE B 6".
7. RESTORATION OF EXISTING GROUND AT CONCRETE FOUNDATION REMOVAL LOCATIONS SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE SPECIAL PROVISION FOR TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH, SPECIAL. THE COST OF RESTORATION OF EXISTING GROUND AT CONCRETE FOUNDATION REMOVAL LOCATIONS WILL NOT BE PAID FOR SEPERATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR REMOVE CONCRETE FOUNDATION - OVERHEAD.
8. THE RESTORATION OF EXISTING GROUND WITH SEEDING CL 2A AND EROSION CONTROL BLANKET AT DRILLED SHAFT CONCRETE FOUNDATION LOCATIONS OUTSIDE THE MEDIAN WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED THE CONTRACT UNIT PRICE PER CU. YD. FOR DRILLED SHAFT CONCRETE FOUNDATIONS.
9. DISTURBED AREAS ARE TO BE PROTECTED FROM EROSION IN A TIMELY MANNER. UPON COMPLETION OF GRADING OR CONSTRUCTION, THE AREA WILL BE STABILIZED (USING PERMANENT MEASURES WHEN POSSIBLE) WITHIN 7 CALENDER DAYS. TEMPORARY STABILIZATION THROUGH USE OF TEMPORARY EROSION CONTROL SEEDING OR OTHER APPROVED MEASURES WILL BE INSTALLED WHENEVER SITE DEVELOPMENT WORK, GRADING OR OTHER EARTH DISTURBING ACTIVITIES CEASE TO BE CONTINUOUS FOR A PERIOD EXCEEDING 14 CALENDER DAYS. THE 7/14 DAY REQUIREMENT IS TAKEN TO MEAN THAT THE STABILIZATION OPERATION IS COMPLETE OR NEARING COMPLETION IN THE DEFINED TIME.

REQUIRED STAGES OF CONSTRUCTION

STAGE I

1. ALL LANE CLOSURES SHALL USE STANDARDS 701400, 701401 & 701411. THESE LANE CLOSURES WILL ONLY BE ALLOWED DURING THE OFF PEAK HOURS AS DETAILED IN THE SPECIAL PROVISION FOR "KEEPING THE EXPRESSWAY OPEN TO TRAFFIC".
2. CONSTRUCT GUARDRAIL AND AGGREGATE STABILIZATION AS SHOWN ON PLANS.

STAGE II

3. CONSTRUCT PROPOSED OVERHEAD SIGN STRUCTURES.
4. REMOVE EXISTING SIGN STRUCTURES AS SHOWN ON PLANS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING

**INDEX OF SHEETS
STATE STANDARDS
GENERAL NOTES**

SCALE: N.T.S. DRAWN BY AG
DATE 05/19/06 CHECKED BY DDH

Rev.

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

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CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	3
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

URBAN
90% FED.
10% STATE

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	Y002-1C
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	61	61
	28000300	TEMPORARY DITCH CHECKS	EACH	7	7
	28000500	INLET AND PIPE PROTECTION	EACH	2	2
	48101500	AGGREGATE SHOULDERS, TYPE B 6"	SQ YD	823	823
*	50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD	31.5	31.5
*	63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	1825	1825
*	63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	4	4
*	63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	4	4
*	63302000	REMOVE AND RE-ERECT TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	5	5
	67100100	MOBILIZATION	L SUM	1	1
	72000200	SIGN PANEL - TYPE 2	SQ FT	20	20
	72000300	SIGN PANEL - TYPE 3	SQ FT	1226	1226
	72400320	REMOVE SIGN PANEL - TYPE 2	SQ FT	20	20
	72400330	REMOVE SIGN PANEL - TYPE 3	SQ FT	1031	1031
	72400730	RELOCATE SIGN PANEL - TYPE 3	SQ FT	1288	1288
	73300100	OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (4'-0" X 4'-6")	FOOT	414	414
	73300200	OVERHEAD SIGN STRUCTURE - SPAN, TYPE II-A (4'-6" X 5'-3")	FOOT	104	104
	73302210	OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE III-C-A (36" X 7'-0")	FOOT	40	40
	73400200	DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	192.9	192.9
	73600100	REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	6	6
	73700300	REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	12	12
*	78200410	GUARDRAIL MARKERS, TYPE A	EACH	21	21
*	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4
*	X6330103	REMOVE AND RE-ERECT TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL, TANGENT	EACH	3	3
	X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1
	X7330105	OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	273.75	273.75
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
	~~Z0076600~~	~~TRAINEES~~	~~HOUR~~		
	X0325336	TOPSOIL FURNISH AND PLACE, VARIABLE DEPTH, SPECIAL	SQ YD	1878	1878

* SPECIALTY ITEMS

EARTHWORK SCHEDULE

ITEM	UNIT	QUANTITY AT SIGN STRUCTURES							TOTAL QUANTITY
		189+70.00	229+76.00	248+22.00	256+26.00	277+45.00	333+75.00	354+55.00	
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	14.7	6.5	10.6	13.3	0.9	8.1	7.1	61.2
EARTH EXCAVATION (FOR INFORMATION ONLY) **	CU YD	19.7	9.8	82.8	16.5	3.1	2.5	10.4	144.8
TOPSOIL (FOR INFORMATION ONLY)	CU YD	42.4	9.6	42.7	14.6	0.0	13.7	12.5	135.4

**EARTH EXCAVATION REQUIRED FOR THE CONSTRUCTION OF THE PROPOSED AGGREGATE SHOULDERS IS INCLUDED IN THE CONTRACT UNIT PRICE FOR AGGREGATE SHOULDERS, TYPE B 6".

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING

SUMMARY OF QUANTITIES

SCALE: N.T.S
DRAWN BY AG
DATE 05/19/06
CHECKED BY DDH

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

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CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	4
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SCHEDULE OF QUANTITIES - SIGNING

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
72000200	SIGN PANEL - TYPE 2	SQ FT	20
72000300	SIGN PANEL - TYPE 3	SQ FT	1226
72400720	REMOVE SIGN PANEL - TYPE 2	SQ FT	20
72400830	REMOVE SIGN PANEL - TYPE 3	SQ FT	1031
72400730	RELOCATE SIGN PANEL - TYPE 3	SQ FT	1288
73300100	OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (4'-0" X 4'-6")	FOOT	414
73300200	OVERHEAD SIGN STRUCTURE - SPAN, TYPE II-A (4'-6" X 5'-3")	FOOT	104
73301210	OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE III-C-A (36" X 7'-0")	FOOT	40
73400200	DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	192.9
73600100	REMOVE OVERHEAD SIGN STRUCTURE - SPAN	EACH	6
72700300	REMOVE CONCRETE FOUNDATION - OVERHEAD	EACH	12
X7330106	OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	FOOT	273.75

SIGN PANEL - TYPE 3 AND RELATED STRUCTURES - INSTALLATION AND REMOVAL

PAY ITEM	1S099I055R249.90 189+70 12'-6" x 12'-6" 12'-6" x 12'-6" 14'-0" x 12'-6" QUANTITY	1S099I055L250.67 229+76 12'-6" x 12'-6" 12'-6" x 12'-6" 14'-0" x 12'-6" QUANTITY	1S099I055R251.02 248+22 13'-0" x 14'-6" 16'-0" x 14'-6" QUANTITY	1S099I055L251.17 256+26 12'-6" x 12'-6" 12'-6" x 12'-6" QUANTITY	1C099I055R251.56 277+45 12'-6" x 12'-6" 12'-6" x 12'-6" QUANTITY	1S099I055R252.64 333+75 11'-6" x 12'-6" 16'-0" x 12'-6" QUANTITY	1S099I055L253.03 354+55 14'-6" x 12'-6" 16'-0" x 12'-6" QUANTITY	TOTAL QUANTITY	UNIT
SIGN PANEL - TYPE 2					20			20	SQ FT
SIGN PANEL - TYPE 3			188.5		312.5	343.75	381.25	1226	SQ FT
REMOVE SIGN PANEL - TYPE 2					20			20	SQ FT
REMOVE SIGN PANEL - TYPE 3					325	325	381.25	1031	SQ FT
RELOCATE SIGN PANEL - TYPE 3	487.5	487.5		312.5				1288	SQ FT
OVERHEAD SIGN STRUCTURE - SPAN, TYPE I-A (4'-0" X 4'-6")		77	75	82		91	89	414	FOOT
OVERHEAD SIGN STRUCTURE - SPAN, TYPE II-A (4'-6" X 5'-3")	104							104	FOOT
OVERHEAD SIGN STRUCTURE - CANTILEVER, TYPE III-C-A (36" X 7'-0")					40			40	FOOT
DRILLED SHAFT CONCRETE FOUNDATIONS	33.4	29.3	31.6	30.6	12.6	25.7	29.7	192.9	CU YD
REMOVE OVERHEAD SIGN STRUCTURE - SPAN	1	1		1	1	1	1	6	EACH
REMOVE CONCRETE FOUNDATION - OVERHEAD	2	2		2	2	2	2	12	EACH
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	46.08	46.83	40.83	37.17	25.42	38.75	38.67	273.75	FOOT

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REVISIONS	
NAME	DATE

Rev.

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING

SCHEDULE OF QUANTITIES

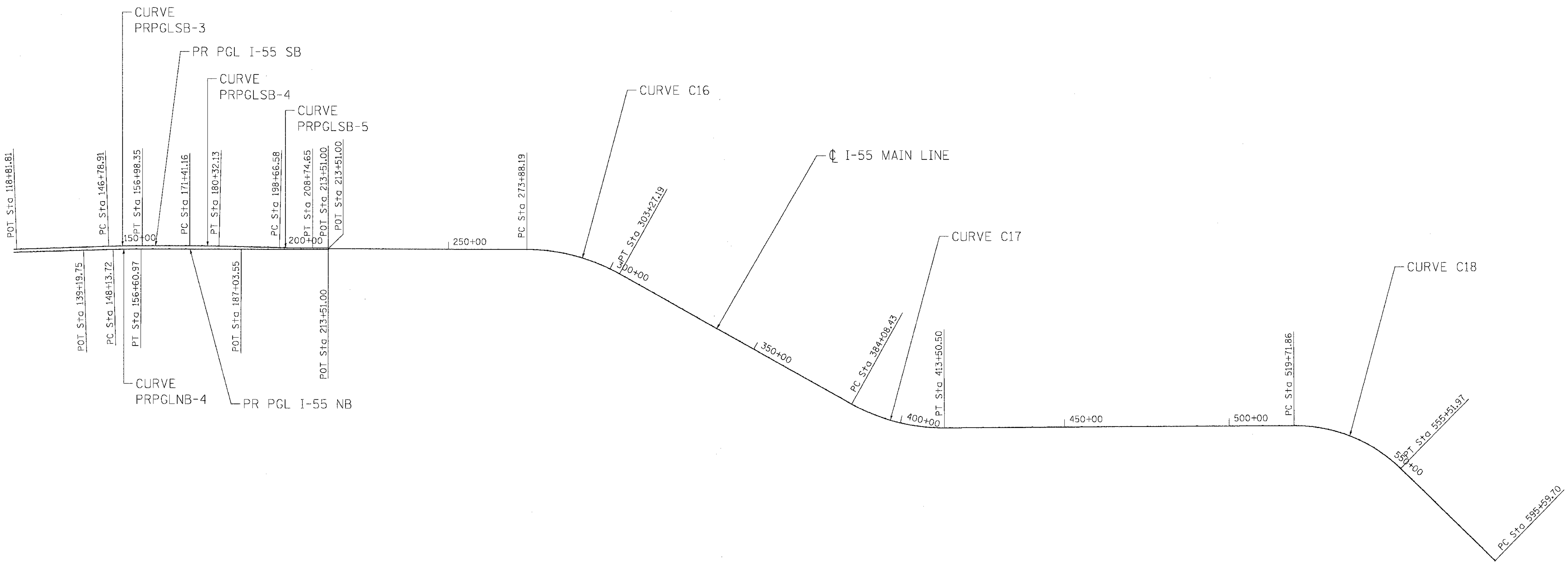
SCALE: N.T.S. DRAWN BY AG
DATE 05/19/06 CHECKED BY DDH

TENG

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	5
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PR PGLSB		
CURVE PGLSB-3	CURVE PGLSB-4	CURVE PGLSB-5
PROP. CURVE PRSBPGL-3 PI STA. = 151+11.11 Δ = 1° 57′ 14″ (RT) D = 0° 12′ 00″ R = 28,634.00′ T = 488.29′ L = 976.48′ E = 4.16′	PROP. CURVE PRSBPGL-4 PI STA. = 177+75.86 Δ = 1° 31′ 58″ (RT) D = 0° 08′ 07″ R = 42,372.00′ T = 566.82′ L = 1,133.58′ E = 3.79′	PROP. CURVE PRSBPGL-5 PI STA. = 201+40.76 Δ = 1° 31′ 47″ (LT) D = 0° 07′ 48″ R = 44,081.27′ T = 588.47′ L = 1,176.86′ E = 3.93′
PR I-55ML		
CURVE C16	CURVE C17	CURVE C18
PROP. CURVE C16 PI STA. = 288+90.31 Δ = 29° 11′ 03″ (RT) D = 0° 59′ 35″ R = 5,770.00′ T = 1,502.12′ L = 2,939.00′ E = 192.32′	PROP. CURVE C17 PI STA. = 399+12.72 Δ = 29° 26′ 39″ (LT) D = 1° 00′ 03″ R = 5,725.00′ T = 1,504.28′ L = 2,942.06′ E = 194.33′	PROP. CURVE C18 PI STA. = 538+58.11 Δ = 44° 35′ 33″ (RT) D = 1° 14′ 44″ R = 4,600.00′ T = 1,886.24′ L = 3,580.11′ E = 371.71′

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING

ALIGNMENT, TIES AND BENCHMARKS I

SCALE: DRAWN BY OP
DATE 05/19/06 CHECKED BY DDH

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

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CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	6
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

COORDINATES

DESCRIPTION	NORTHING	EASTING	STATION	OFFSET
PGL I-55 NB				
P.T. PNBPGL1-4	1,750,141.457	1,021,663.206	156+60.97	0.00 FT
P.O.T. PNB103	1,753,182.728	1,021,573.620	187+03.55	0.00 FT
P.O.T. PNB104	1,755,828.873	1,021,490.797	213+51.00	0.00 FT
PGL I-55 SB				
P.T. PSBPGL1-2	1,746,366.92	1,021,790.50	118+81.85	0.00 FT
P.C. PSBPGL1-3	1,749,158.07	1,021,608.68	146+78.91	0.00 FT
P.I. PSBPGL1-3	1,749,666.76	1,021,575.54	151+88.69	0.00 FT
P.T. PSBPGL1-3	1,750,176.31	1,021,560.53	156+98.35	0.00 FT
P.C. PSBPGL1-4	1,751,618.50	1,021,518.05	171+41.16	0.00 FT
P.I. PSBPGL1-4	1,752,063.80	1,021,504.93	175+86.66	0.00 FT
P.T. PSBPGL1-4	1,752,509.29	1,021,501.18	180+32.13	0.00 FT
P.C. PSBPGL1-5	1,754,343.67	1,021,485.73	198+66.58	0.00 FT
P.I. PSBPGL1-5	1,754,847.71	1,021,481.49	203+70.64	0.00 FT
P.T. PSBPGL1-5	1,755,351.53	1,021,465.72	208+74.65	0.00 FT
P.O.T. PSB102	1,755,827.64	1,021,450.82	213+51.00	0.00 FT
CL I-55				
P.O.T. I-5501	1755828.255	1021470.806	213+51.00	0.00 FT
P.C. C16	1761862.568	1021284.330	273+88.19	0.00 FT
P.I. C16	1763363.968	1021237.933	288+90.31	0.00 FT
P.T. C16	1764697.401	1021929.534	303+27.19	0.00 FT
P.C. C17	1771871.139	1025650.280	384+08.43	0.00 FT
P.I. C17	1773206.496	1026342.879	399+12.72	0.00 FT
P.T. C17	1774709.836	1026289.590	413+50.50	0.00 FT
P.C. C18	1785324.534	1025913.333	519+71.86	0.00 FT
P.I. C18	1787209.594	1025846.513	538+58.11	0.00 FT
P.T. C18	1788598.891	1027122.354	555+51.97	0.00 FT

BENCHMARKS

B.M. 3069 SQUARE CUT AT N END OF E PIER AND E EDGE OF I-80 WB PIER AND UNDER LIGHT BOX #PA8, EL. 590.48 (N 1755516.67, E 1021480.72)

B.M. 3070 PK NAIL IN E EDGE BIT. SHOULDER 100' N OF GORE OF I-55 NB TO WB I-80, EL. 589.80 (N 1755959.92, E 1021521.02)

B.M. 3071 SQUARE CUT ON SW CORNER OF 2' x 2' CONC LP BASE, LP #PC4 IN THE NE QUADRANT OF I-55 NB AND I-80 WB, EL. 589.44 (N 1756078.95, E 1021524.49)

B.M. 3072 FND PK NAIL #9 IN E EDGE BIT SHOULDER 10' W OF GORE OF I-80 BW TO I-55 NB, EL.589.82 (N 1756320.54, E 1021510.64)

B.M. 3073 PK NAIL SET IN E EP OF E FRONTAGE RD NEAR N ℄ OF #21607, EL. 589.57

B.M. 3074 PK NAIL SET E EP OF E FRONTAGE RD 10' N OF MAILBOX FOR #21525, EL. 589.40

B.M. 3075 FND REBAR #8 2' E OF E EP OF E FRONTAGE RD AND ABOUT 200' S OF GRAVEL DR TO #, OPPOSITE PP W/TRANSFORMER, EL. 589.89

B.M. 3076 PK NAIL IN E EP OF E FRONTAGE RD AND 7' N OF MAIL BOX #21363, EL. 590.80

B.M. 3077 PK NAIL SET IN E EP OF E FRONTAGE RD OPPOSITE PP, 1ST PP S OF LARGE SIGN W/3 SUPPORT POST, EL. 591.38

B.M. 3078 PK NAIL IN E EP OF E FRONTAGE RD OPPOSITE GREEN MAIL BOX AND 10' N OF LAST GRAVEL DR BEFORE RTE 59, EL. 590.64

B.M. 3079 SQUARE CUT ON W SIDE S OF 2' DIA. CONC BASE FOR SIGN EXIT 251 (IL 59 SHOREWOOD-PLAINFIELD 1/2 MILE), EL. 587.76

B.M. 3080 FND REBAR 2' E OF E EP OF E FRONTAGE RD AND 100' N OF ABOVE SIGN, EL. 588.13

B.M. 3081 SQUARE CUT ON HEADWALL OF 24" CMP ON E SIDE OF E FRONTAGE RD IN LOW WET AREA. 24" CMP RUNS UNDER FRONTAGE RD BUT NOT I-55, EL. 584.90

B.M. 3082 FND PK NAIL W EP OF E FRONTAGE RD "TENG #410" AND ABOUT 100' S OF "NATURAL GAS LINE CROSSING", EL. 587.96

B.M. 3083 FND PK NAIL "TENG #412" W EP OF E FRONTAGE RD AND ABOUT 150' N OF "NATURAL GAS LINE CROSSING", EL. 591.43

B.M. 3084 FND PK NAIL "TENG #414" IN W EP OF E FRONTAGE RD AND IN MIDDLE OF 4" GAS LINE CROSSING AND ABOUT 500' S OF RTE 54 RTE 59 OVERHEAD SIGN, EL. 594.57

B.M. 3085 SQUARE CUT ON W SIDE 4' DIA LP CONC BASE ABOUT 200' S OF OVERHEAD SIGN "RT 30" 1 MILE RTE 59, EL. 594.95 (N 1761950.005, E 1021365.626)

B.M. 3086 SQUARE CUT TOP AND CENTER OF S EDGE OF 2' x 10' CONC FD OF OVERHEAD SIGN "EXIT 253 RTE 52 1 MILE / EXIT 251 RTE 59" AT RTE 59 EXIT RAMP, EL. 597.03 (N 1762196.801, E 1021370.072)

B.M. 3087 FND REBAR "CP #2" ON W. ROW I-55 AND ABOUT 50' S OF OVERHEAD SIGN W AND ABOUT 150' N OF MP 97.9 SIGN OF NATURAL GAS LINE, EL. 593.68

B.M. 3088 PK NAIL E EP OF W FRONTAGE RD OPPOSITE 33087, EL. 596.13

B.M. 3089 PK NAIL W EP OF W FRONTAGE RD I-55 AND ABOUT 100' N OF LP #3-OCD1 ABOUT 400' S OF WILL 621, EL. 594.86

B.M. 3090 SQUARE CUT ON S EDGE 4' DIA. CONC LP BASE #4-OCD2 BETWEEN RTE 59 ENTRANCE RAMP AND SB I-55 AND 1ST LP S OF RTE 59, EL. 593.72 (N 1763233.649, E 1021321.982)

B.M. 3091 PK NAIL W BIT SHOULDER OF I-55 SB AND ABOUT 400' S OF RTE 59 BRIDGE, EL. 597.11

B.M. 3092 SQUARE CUT ON TOP AND MIDDLE AND N EDGE OF S 1/2 OF CENTER PIER OF RTE 59 FLYOVER BRIDGE AND AT "TENG STA. 1140+00", EL. 599.15 (N 1764024.646, E 1021631.306)

B.M. 3093 PK NAIL E EP SHOULDER OF I-55 NB, 300 N OF RTE 59 BRIDGE AND AT MP 252 SIGN, EL. 597.52 (N 1764353.512, E 1021824.719)

B.M. 3094 SQUARE CUT TOP HEADWALL OF 18" P CULVERT ON E SIDE OF E FRONTAGE RD ABOUT 600' N RTE 59 FLYOVER BRIDGE, EL. 596.09 (N 1764429.128, E 1021942.974)

B.M. 3095 SQUARE CUT S EDGE OF E 2' DIA CONC BASE SIGN FOR "EXIT 253 SHORE WOOD-JOLIET 1/2 MILE", EL. 598.47 (N 1764879.556, E 1022121.727)

B.M. 3096 PK NAIL E EP OF E FRONTAGE RD OPPOSITE OLD GRAVEL DR TO E AND I-55 NB SIGN "OFF-TRACK WAGERING FACILITY EXIT 253", EL. 599.84

B.M. 3097 SQUARE CUT E EDGE OF 2' DIA CONC BASE SIGN "GAS-EXIT 253 PHILLIPS 66- SHELL- AMOCO", EL. 601.00 (N 1765612.170, E 1022501.210)

B.M. 3098 PK NAIL E EP OF E FRONTAGE RD AND ABOUT 200' S OF OLD BIT DR WITH CURBS AND W OF 2 TALL CELL PHONE TOWERS, EL.601.49

B.M. 3099 PK NAIL E EP OF FRONTAGE RD AT RISE IN HILL AND WITH 2 TALL CELL TOWERS TO EAST, EL. 601.30

B.M. 3100 FND SQUARE CUT TOP AND E END OF S HEADWALL 15" CMP UNDER BIT DR TO ELKS MOTOR INN LODGE ON E FRONTAGE RD, EL. 599.28

B.M. 3101 PK NAIL E EP OF E FRONTAGE RD 150' N OF ELKS DR., EL 593.76

B.M. 3102 PK NAIL E EP OF E FRONTAGE RD 400' OF ELKS DR, EL. 586.62

B.M. 3103 PK NAIL E EP OF BIT SHOULDER OF I-55, 300' S OF RTE 52 EXIT RAMP AT S END OF GR AND 50' N OF LP #NO8 AND MP 252.58, EL. 583.24 (N 1767096.33, E 1023252.907)

D247 1960 USGS (NAVD 88) EL. 543.27
BRASS DISC ON TOP OF W END OF CONC ABUT., AT THE N END OF NB LANES, I-55 BRIDGE OVER DES PLAINES RIVER

MC11 USGS, 1952 RESET 1990, EL. 584.503
BRASS CAP ON TOP AT N END OF SOUTHERLY PARAPHET WALL ON THE W SIDE OF US RTE 52 BRIDGE OVER DUPAGE RIVER

NOTE:
THE LOCATION AND DESCRIPTION OF ADDITIONAL BENCHMARKS ARE PRESENTED AS CONTROL POINTS (TP1 - TP40) ON ATTACHED SHEETS 10 TO 13

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING

ALIGNMENT, TIES AND BENCHMARKS II

SCALE: DRAWN BY OP
DATE 05/19/06 CHECKED BY DDH

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

PLOT DATE = $DATE$
FILE NAME = $FILEL$
PLOT SCALE = $SCALE$
USER NAME = $USER$

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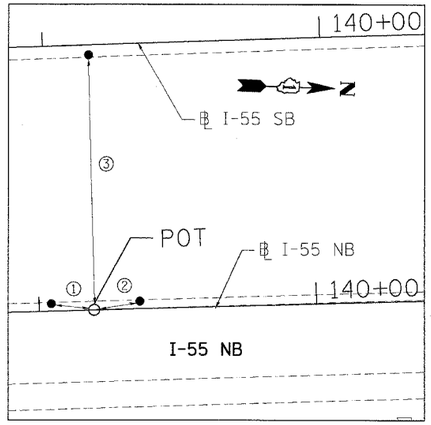
5-17-2286.1424\05 GARCIAAZ S:\DOCUMENT\M2285\01\CIVIL\DGN\TB071A002.SHT

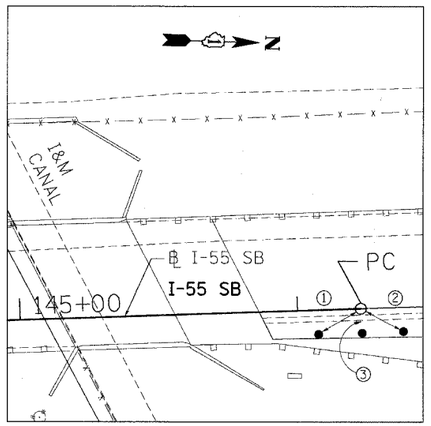
CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	7
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



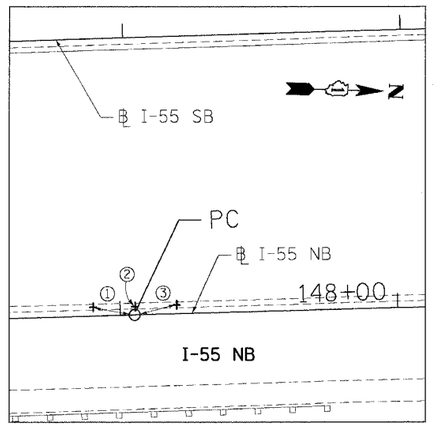
POT STA. 139+19.80

① MAG NAIL, 15.54'
② MAG NAIL, 16.78
③ MAG NAIL, 91.81'



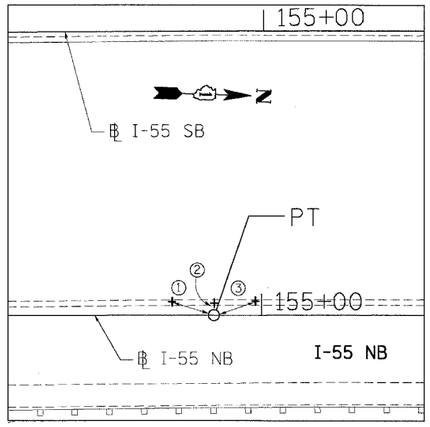
PC STA. 146+22.82

① MAG NAIL, 15.54'
② MAG NAIL, 16.78
③ MAG NAIL, 91.81'



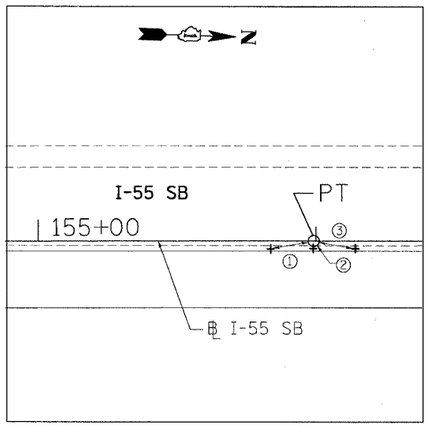
PC STA. 147+05.16

① SET +, 15.21'
② SET +, 2.99'
③ SET +, 15.55'



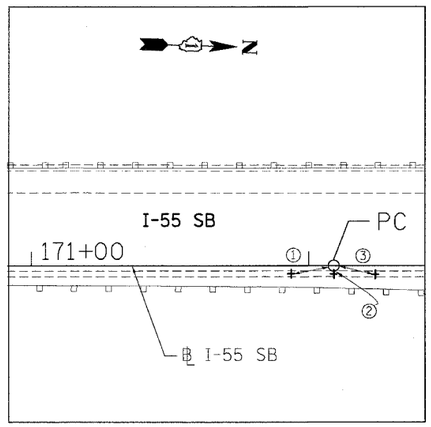
PT STA. 154+82.89

① SET +, 15.78'
② SET +, 4.37'
③ SET +, 15.84'



PT STA. 155+99.30

① SET +, 15.27'
② SET +, 2.80'
③ SET +, 15.84'



PT STA. 172+09.04

① SET +, 15.57'
② SET +, 3.02'
③ SET +, 15.35'

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING

ALIGNMENT, TIES AND BENCHMARKS III

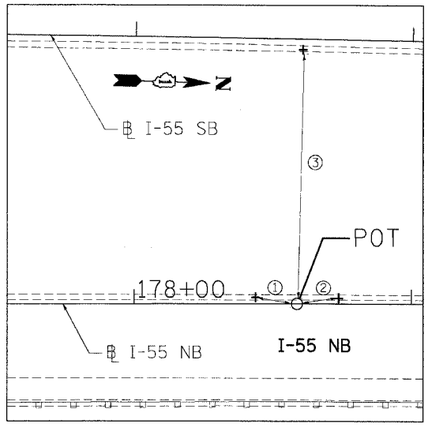
SCALE: N.T.S. DRAWN BY SB
DATE 05/19/06 CHECKED BY DDH

TENG

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

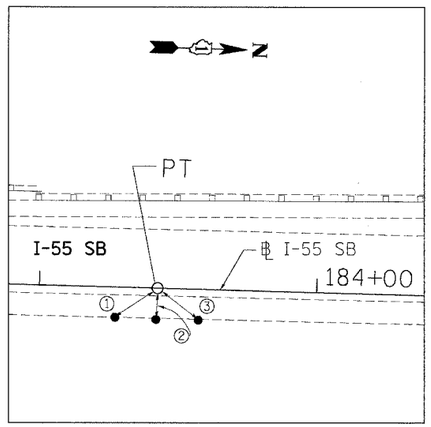
CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	8
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



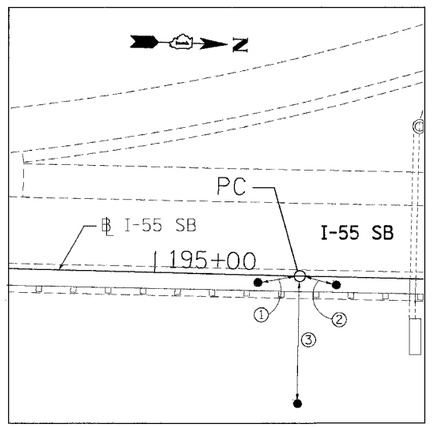
POT STA. 178+58.72

① SET +, 15.09'
② SET +, 15.21'
③ SET +, 91.63'



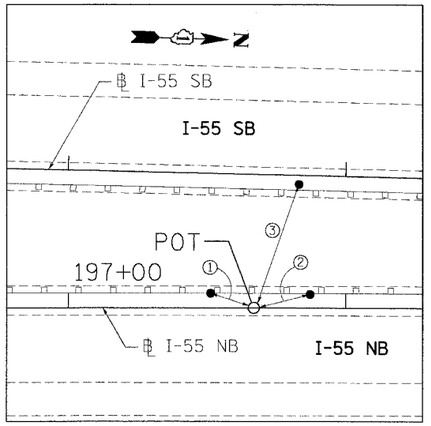
PT STA. 183+42.62

① MAG NAIL, 18.62'
② MAG NAIL, 11.27'
③ MAG NAIL, 18.61'



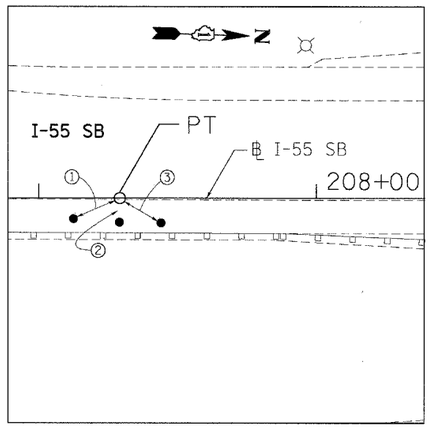
PC STA. 195+52.29

① MAG NAIL, 15.39'
② MAG NAIL, 13.34'
③ MAG NAIL, 46.13'



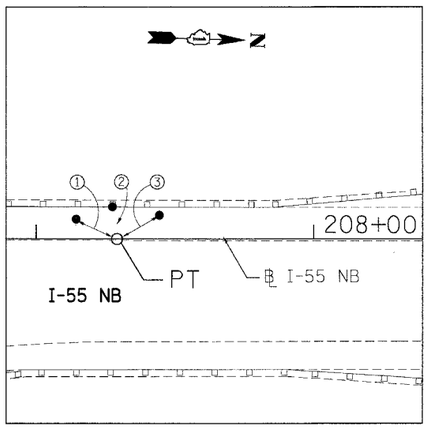
POT STA. 197+66.89

① MAG NAIL, 16.49'
② MAG NAIL, 20.86'
③ MAG NAIL, 47.26'



PT. STA. 207+29.16

① MAG NAIL, 18.31'
② MAG NAIL, 8.71'
③ MAG NAIL, 17.35'



PT. STA. 207+29.16

① MAG NAIL, 16.32'
② MAG NAIL, 11.52'
③ MAG NAIL, 17.45'

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING

ALIGNMENT, TIES AND BENCHMARKS IV

SCALE: N.T.S. DRAWN BY SB
DATE 05/19/06 CHECKED BY DDH

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

PLOT DATE = $DATE$
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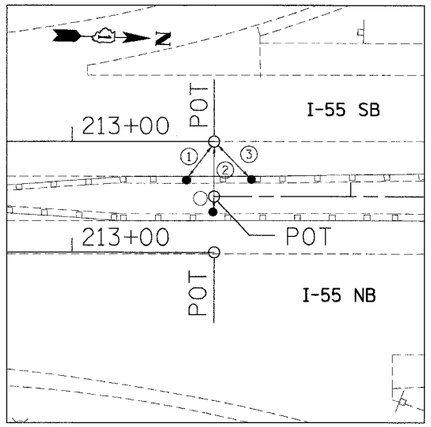
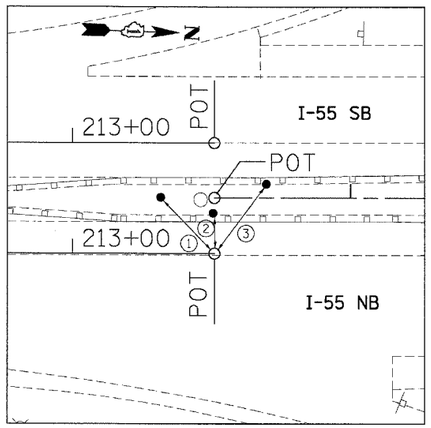
CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	9
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



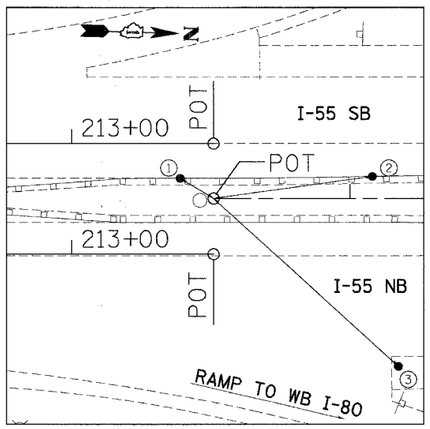
POT STA. 213+51.00

① PK NAIL, NW'LY OF FOUND MAG NAIL, 17.17'
② PK NAIL, W. OF FOUND MAG NAIL, 25.52'
③ PK NAIL, SW'LY OF FOUND MAG NAIL, 19.27'



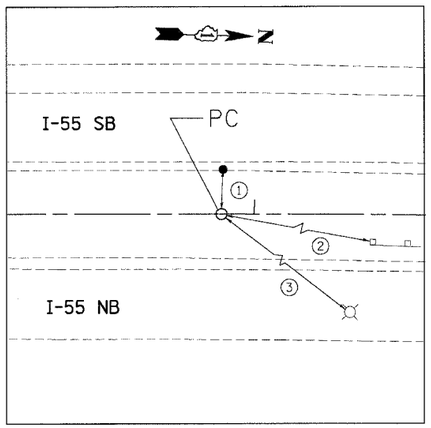
POT STA. 213+51.00

① PK NAIL, NE'LY OF FOUND MAG NAIL, 27.85'
② PK NAIL, E. OF FOUND MAG NAIL, 14.49'
③ PK NAIL, SE'LY OF FOUND MAG NAIL, 29.39'



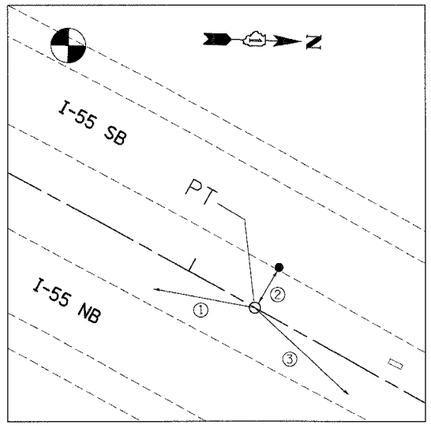
POT STA. 213+51.00

① PK NAIL, ON TOP OF GR SPACE TO I-BEAM, 14.02'
② PK NAIL, TOP OF GR SPACER TO I-BEAM OPP. MERGE SIGN ON SB, 57.63'
③ PK NAIL, AT GORE FOR I-80 RAMP WB, 67.37'



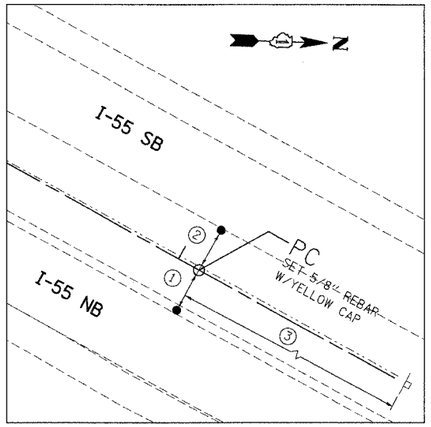
PC STA. 273+88.19

① PK NAIL, EDGE OF E. SHLDR OF I-55 SB, 15.97'
② PK NAIL, GR POST ALONG W. SHLDR. OF NB I-55, 139.33'
③ 'X' CUT ON W. SIDE OF CONC. BASE OF LP, 119.43'



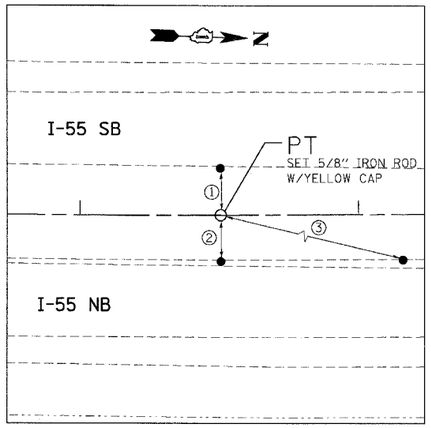
PT STA. 303+27.19

① PK NAIL, TOP OF WD. SPACER TO GR, 36.22'
② PK NAIL, E. EDGE OF SB I-55 SHLDR, 16.26'
③ PK NAIL, TOP OF WD. SPACER S. OF TIE #1, 45.48'



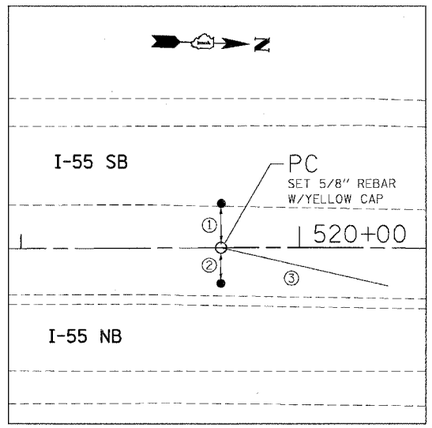
PC STA. 384+08.43

① PK NAIL, W. E.P. SHLDR ON NB, 16.39'
② PK NAIL, E. E.P. SHLDR ON SB, 16.44'
③ PK NAIL, E. FACE OF WD POST, 160.77'



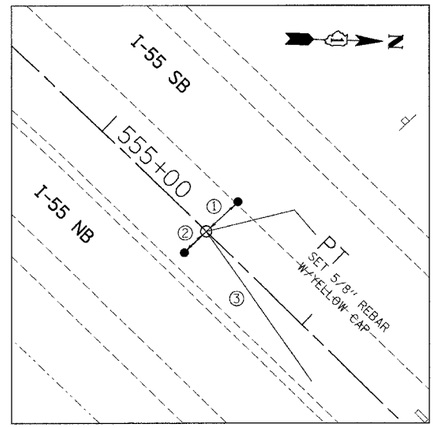
PT STA. 413+50.50

① PK NAIL, E. E.P. OF SHLDR ON SB I-55 OPPOSITE P.T., 17.305'
② PK NAIL, W. E.P. OF SHLDR ON NB I-55 OPPOSITE P.T., 16.747'
③ PK NAIL, W. E.P. OF SHLDR ON NB I-55 OPPOSITE SURFACE DRAIN TO CENTER MEDIAN, 130.54'



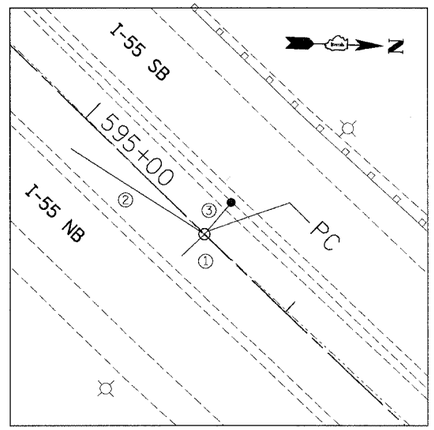
PC STA. 519+71.86

① PK NAIL, SHLDR E.P. OF SB I-55, 15.964'
② PK NAIL, ON TOP OF POST SPACER TO GR W, 12.796'
③ PK NAIL, ON 10TH I-BEAM N. OF TIE# 2, 61.467'



PT STA. 555+51.97

① PK NAIL, E. E.P. SB I-55 OPP. P.T, 15.601'
② PK NAIL, TOP OF WD. POST SPACER ON GR., 11.095'
③ PK NAIL, ON 10TH WD. POST SPACER ON GR NE'LY OF TIE # 2, 65.809'



PC STA. 595+59.70

① PK NAIL, ON TOP OF WD. SPACER TO GR. W. SIDE OF NB I-55, 11.215'
② PK NAIL, ON TOP OF WD. SPACER TO GR ON 10TH POST S. OF TIE# 1, 56.874'
③ PK NAIL, E.P. TO SHLDR OF SB I-55, 15.493'

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING

ALIGNMENT, TIES AND BENCHMARKS
V

SCALE: N.T.S. DRAWN BY SB
DATE 05/19/06 CHECKED BY DDH

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

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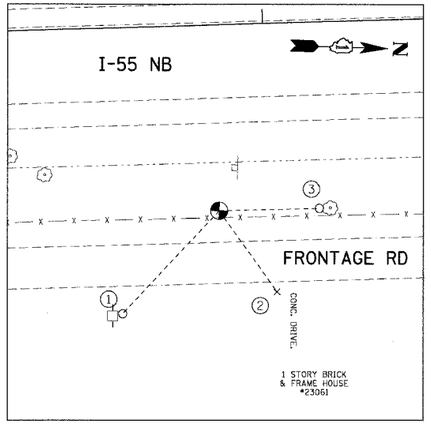
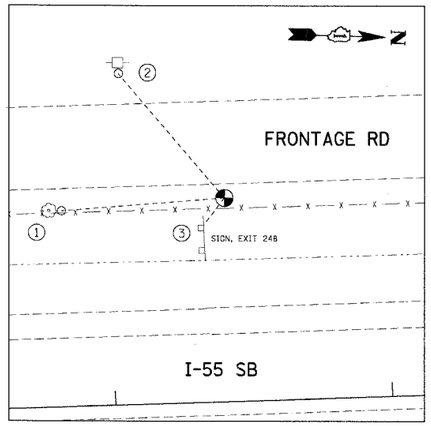
CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	10
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



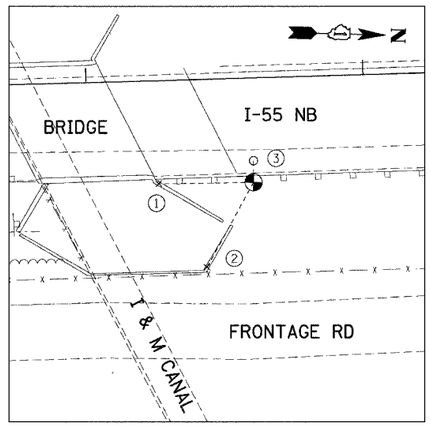
TP1

(N 1747171.665, E 1021895.312, ELEV. 537.694)
① PK NAIL ON WEST FACE OF POWER POLE, 70.70'
② CUT CROSS IN CONC. DRIVEWAY, 52.12'
③ PK NAIL ON SOUTH FACE OF 12" TREE, 36.18'



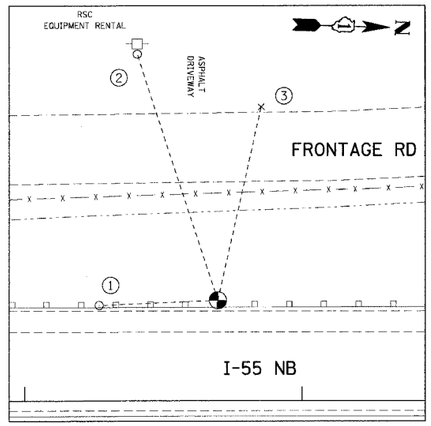
TP2

(N 1748118.259, E 1021602.430, ELEV. 527.049)
① PK NAIL ON EAST FACE OF 10" TREE, 44.45'
② PK NAIL ON WEST FACE OF POWER POLE, 59.00'
③ NEAREST CORNER OF SIGN POST, 12.30'



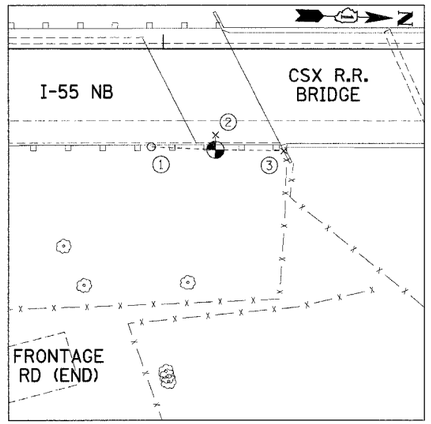
TP3

(N 1749143.319, E 1021747.490, ELEV. 536.290)
① CUT CROSS ON TOP OF CONC. WALL, 34.20'
② CUT CROSS ON TOP OF CONC. WALL, 35.25'
③ PK NAIL IN ASPH. SHOULDER, 7.86'



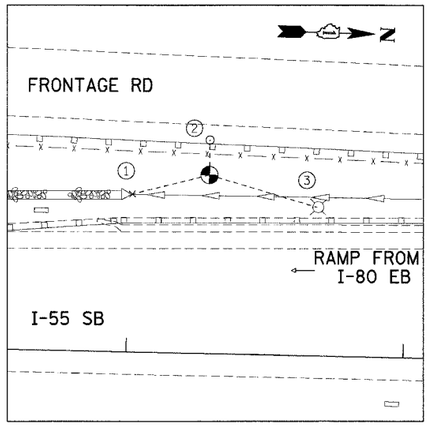
TP4

(N 1750146.468, E 1021525.206, ELEV. 558.007)
① PK NAIL IN ASPHALT, 42.86'
② PK NAIL ON EAST FACE OF POWER POLE, 93.72'
③ CUT CROSS ON TOP OF CONC. CURB, 71.98'



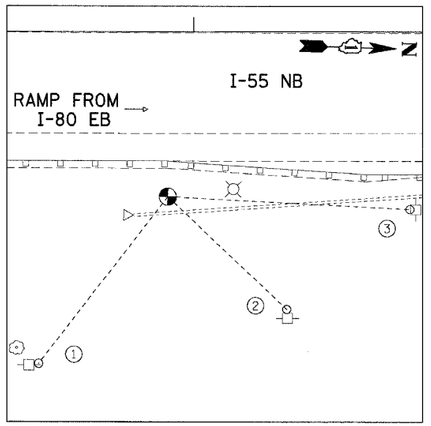
TP5

(N 1751199.973, E 1021668.568, ELEV. 577.182)
① PK NAIL IN ASPHALT, 23.15'
② CUT CROSS IN BRIDGE DECK, 5.35'
③ CUT CROSS ON TOP OF WINGWALL, 24.65'



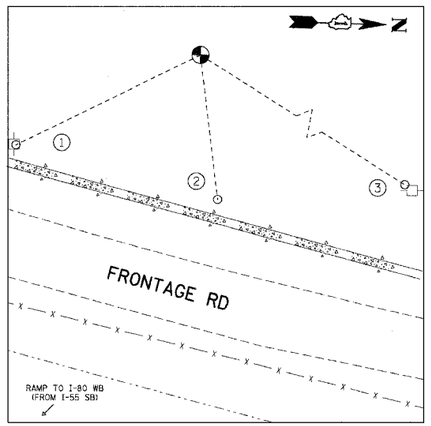
TP6

(N 1753305.294, E 1021429.772, ELEV. 573.834)
① CUT CROSS ON TOP OF RCP 40", 28.60'
② PK NAIL IN ASPHALT, 12.50'
③ SOUTH FACE OF LIGHT POLE, 40.50'



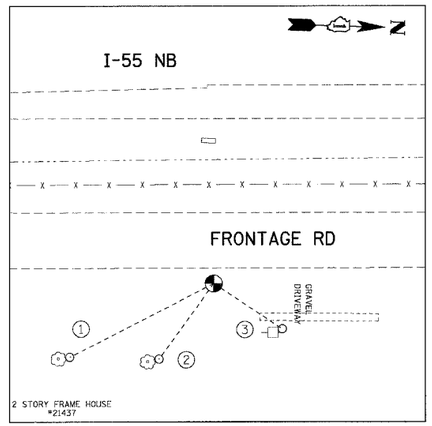
TP7

(N 1755270.636, E 1021567.644, ELEV. 585.682)
① PK NAIL ON NORTH FACE OF POWER POLE, 76.45'
② PK NAIL ON WEST FACE OF POWER POLE, 59.20'
③ PK NAIL ON SOUTH FACE OF POWER POLE, 87.50'



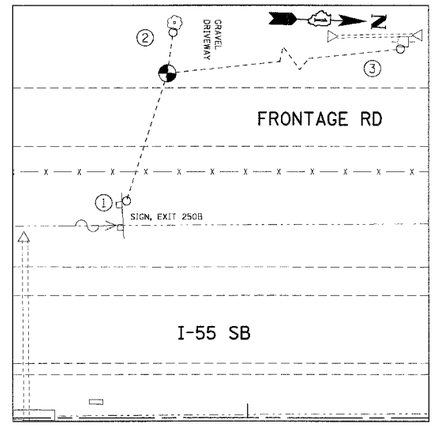
TP8

(N 1757027.413, E 1021155.818, ELEV. 595.624)
① PK NAIL ON NORTH FACE OF POWER POLE, 74.05'
② WILLTEL STAND. PIPE, 52.34'
③ PK NAIL ON SOUTH FACE OF POWER POLE, 139.20'



TP9

(N 1758081.471, E 1021528.564, ELEV. 589.434)
① PK NAIL ON NORTH FACE OF 14" TREE, 58.37"
② PK NAIL ON NORTH FACE OF 24" TREE, 33.75'
③ PK NAIL ON NORTH FACE OF POWER POLE, 29.65'



TP10

(N 1759043.088, E 1021247.156, ELEV. 591.034)
① NEAREST CORNER OF SIGN POST, 48.17'
② PK NAIL ON EAST FACE OF 26" TREE, 14.90'
③ PK NAIL ON EAST FACE OF POWER POLE, 161.26'

NOTE:
ALL CONTROL POINTS ON THIS SHEET WERE SET WITH 2" IRON ROD WITH YELLOW CAP

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING

ALIGNMENT, TIES AND BENCHMARKS VI

SCALE: N.T.S. DRAWN BY SB
DATE 05/19/06 CHECKED BY DDH

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

PLOT DATE = $DATE$
FILE NAME = $FILE$
PLOT SCALE = $SCALE$
USER NAME = $USER$

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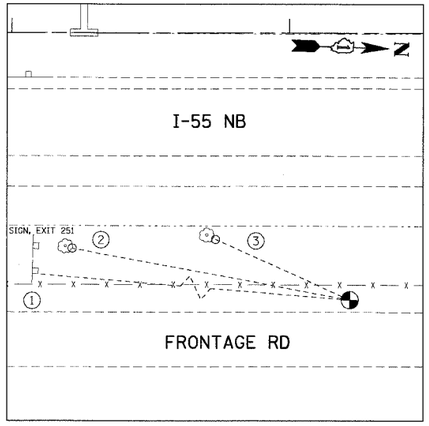
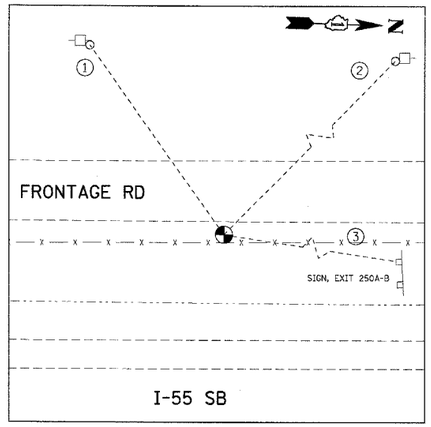
5/17/2006, 14:29:16 GARC/042 S:\DOD\PRN\XR2851B\CIVIL\SIGN\T5B71HAN05.SHT

CONTRACT NO. 60A70

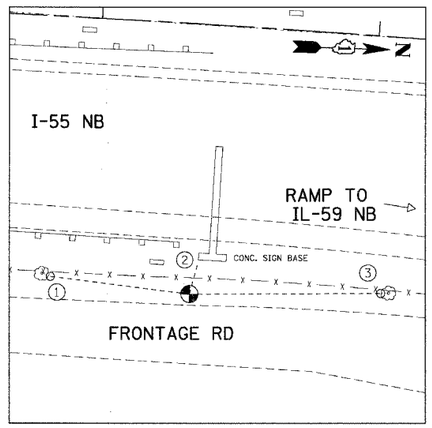
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	11
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



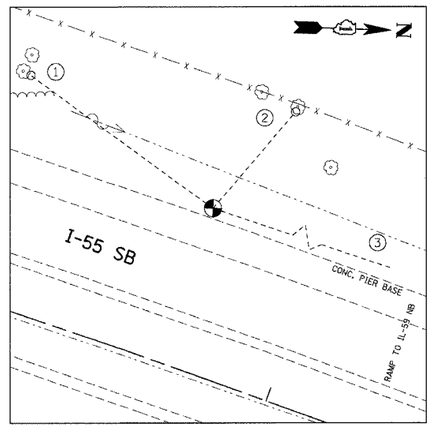
TP11
(N 1760200.014, E 1021431.801, ELEV. 586.597)
① NEAREST CORNER OF SIGN POST, 318.80'
② PK NAIL ON NORTH FACE OF 10" TREE, 101.80'
③ PK NAIL ON NORTH FACE OF 12" TREE, 53.14'



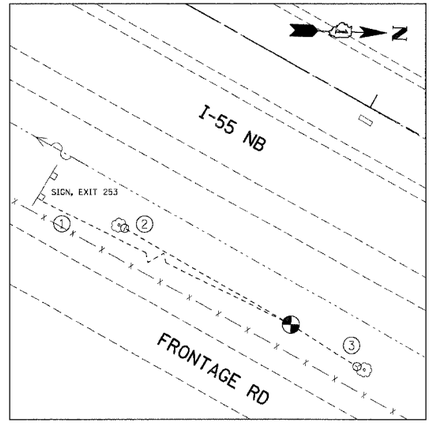
TP12
(N 1761145.966, E 1021213.588, ELEV. 590.855)
① PK NAIL ON NORTH FACE OF POWER POLE, 83.45'
② PK NAIL ON SOUTH FACE OF POWER POLE, 179.20'
③ NEAREST CORNER OF SIGN POST, 227.45'



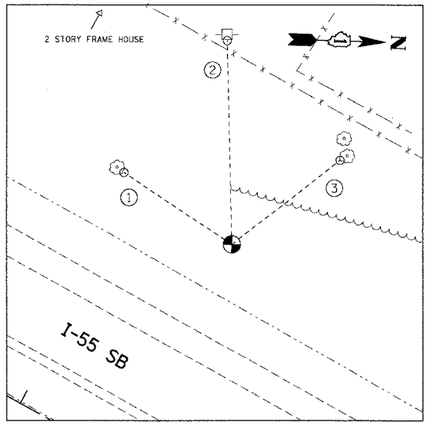
TP13
(N 1762208.792, E 1021381.377, ELEV. 596.094)
① PK NAIL ON NORTH FACE OF 14" TREE, 50.53'
② NEAREST CORNER OF CONC. SIGN BASE, 12.20'
③ PK NAIL ON EAST FACE OF 16" TREE, 68.97'



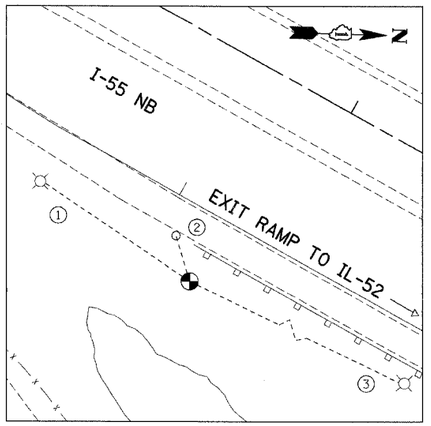
TP14
(N 1763822.452, E 1021501.351, ELEV. 596.851)
① PK NAIL ON NORTH FACE OF 12" TREE, 81.23'
② PK NAIL ON EAST FACE OF 12" TREE, 45.72'
③ CORNER OF CONC. PIER BASE, 274.15'



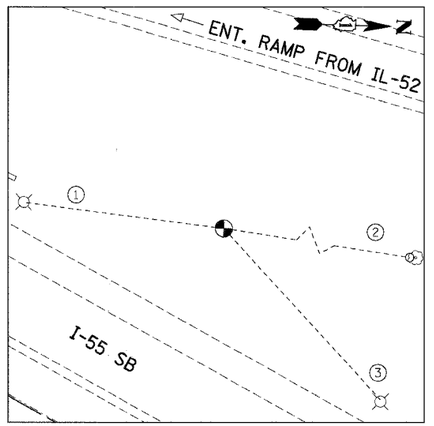
TP15
(N 1765002.134, E 1022180.735, ELEV. 597.966)
① NEARES CORNER OF SIGN POST, 134.40'
② PK NAIL ON NORTH FACE OF 10" TREE, 69.33'
③ PK NAIL ON SOUTH FACE OF 6" TREE, 28.16'



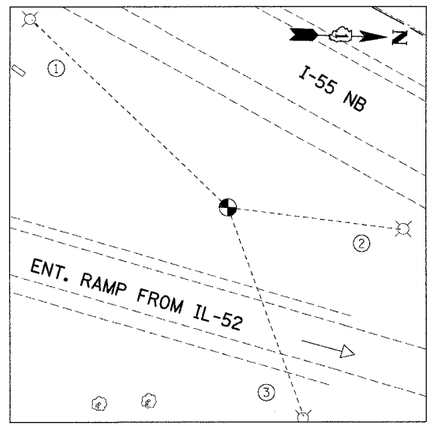
TP16
(N 1766079.260, E 1022548.112, ELEV. 601.281)
① PK NAIL ON NORTH FACE OF 12" TREE, 46.70'
② PK NAIL ON EAST FACE OF POWER POLE, 73.70'
③ PK NAIL ON EAST FACE OF 48" TREE, 49.40'



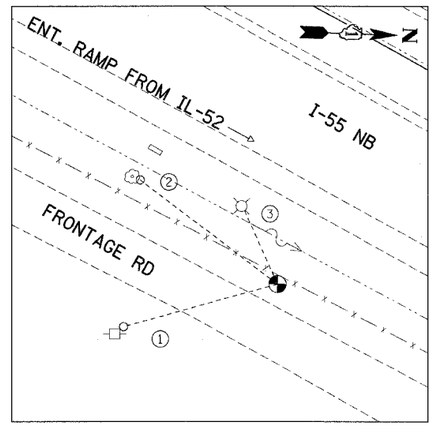
TP17
(N 1767102.532, E 1023268.763, ELEV. 580.810)
① NEAREST FACE OF LIGHT POLE, 62.45'
② PK NAIL IN ASPHALT, 17.10'
③ NEAREST FACE OF LIGHT POLE, 109.30'



TP18
(N 1768066.661, E 1023574.931, ELEV. 582.146)
① NEAREST FACE OF LIGHT POLE, 72.60'
② PK NAIL ON SOUTH FACE OF 32" TREE, 128.60'
③ NEAREST FACE OF LIGHT POLE, 83.55'



TP19
(N 1768709.630, E 1024110.251, ELEV. 580.954)
① NEAREST FACE OF LIGHT POLE, 97.90'
② NEAREST FACE OF LIGHT POLE, 63.85'
③ NEAREST FACE OF LIGHT POLE, 80.10'



TP20
(N 1769655.699, E 1024607.111, ELEV. 580.554)
① PK NAIL ON NW FACE OF POWER POLE, 57.60'
② PK NAIL ON NORTH FACE OF 14" TREE, 62.10'
③ NEAREST FACE OF LIGHT POLE, 30.40'

NOTE:
ALL CONTROL POINTS ON THIS SHEET WERE SET WITH 2" IRON ROD WITH YELLOW CAP

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING

ALIGNMENT, TIES AND BENCHMARKS VII

SCALE: N.T.S. DRAWN BY SB
DATE 05/19/06 CHECKED BY DDH

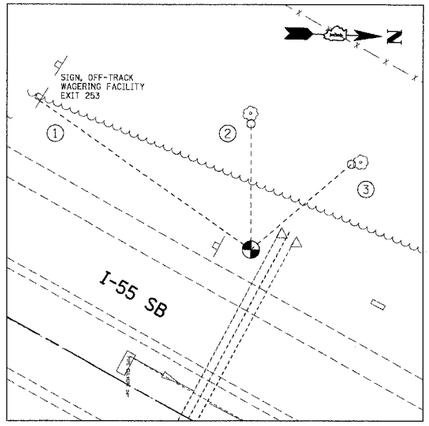
TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

PLOT DATE = $DATE$
FILE NAME = $FILE$
PLOT SCALE = $SCALE$
USER NAME = $USER$

S:\SPP\914\02\DGN\...\VP2B514A02.DGN...\ALIGNMENT.DGN...\SUP914A04.DGN
S:\SPP\2006\...\2B514A02 SHEETS.DGN S:\GDOT\DGN\...\DESIGN\UTILITIES.DGN\TEXT\TIA07.SHT

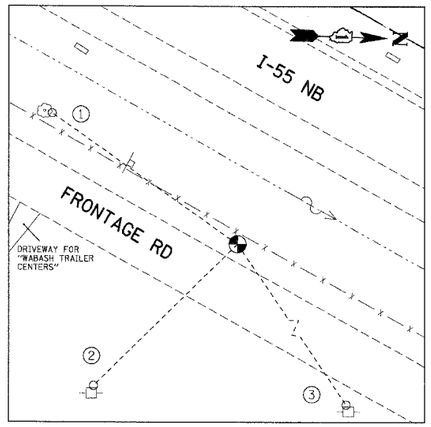
CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	12
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



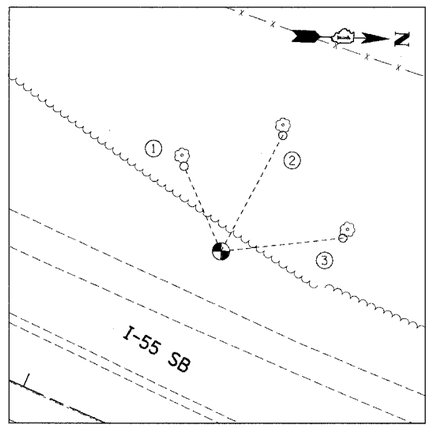
TP21

(N 1770894.475, E 1025071.461, ELEV. 580.457)
(1) NEAREST CORNER OF SIGN POST, 94.35'
(2) PK NAIL ON WEST FACE OF 12" TREE, 45.05'
(3) PK NAIL ON SOUTH FACE OF 14" TREE, 47.50'



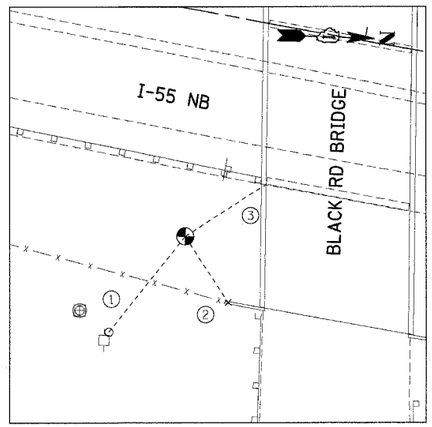
TP22

(N 1771524.797, E 1025577.049, ELEV. 581.842)
(1) PK NAIL ON NORTH FACE OF 16" TREE, 81.65'
(2) PK NAIL ON WEST FACE OF POWER POLE, 72.95'
(3) PK NAIL ON WEST FACE OF POWER POLE, 143.05'



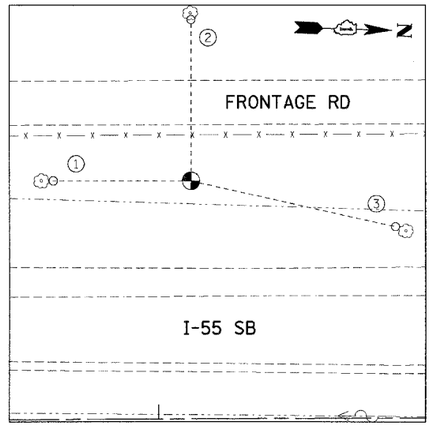
TP23

(N 1772386.338, E 1025806.470, ELEV. 579.479)
(1) PK NAIL ON EAST FACE OF 16" TREE, 33.30'
(2) PK NAIL ON EAST FACE OF 12" TREE, 47.20'
(3) PK NAIL ON EAST FACE OF 28" TREE, 44.20'



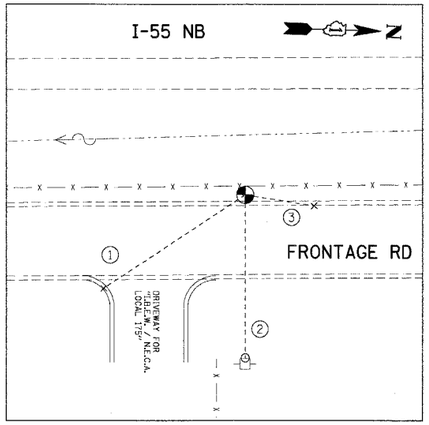
TP24

(N 1773599.891, E 1026302.676, ELEV. 588.101)
(1) PK NAIL ON WEST FACE OF POWER POLE, 44.20'
(2) CUT CROSS ON TOP OF BRIDGE WING WALL, 28.60'
(3) NEAREST CORNER OF CONCRETE PIER BASE, 34.80'



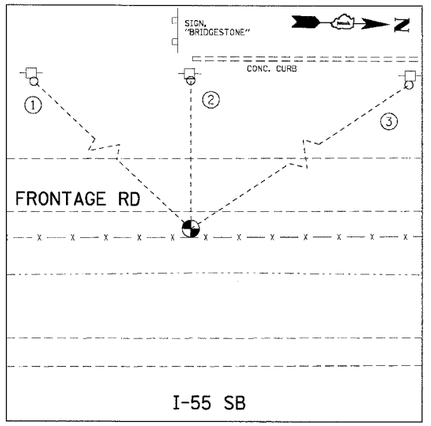
TP25

(N 1774768.339, E 1026201.638, ELEV. 581.191)
(1) PK NAIL ON NORTH FACE OF 26" TREE, 49.70'
(2) PK NAIL ON WEST FACE OF 24" TREE, 60.70'
(3) PK NAIL ON SOUTH FACE OF 14" TREE, 75.50'



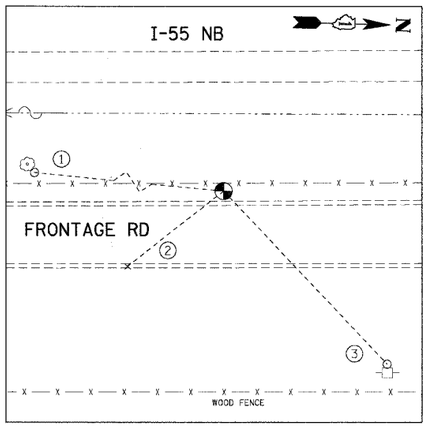
TP26

(N 1775767.608, E 1026345.581, ELEV. 590.522)
(1) CUT CROSS SET ON TOP OF CURB, 61.10'
(2) PK NAIL ON WEST FACE OF POWER POLE, 58.80'
(3) CUT CROSS SET ON TOP OF CURB, 25.10'



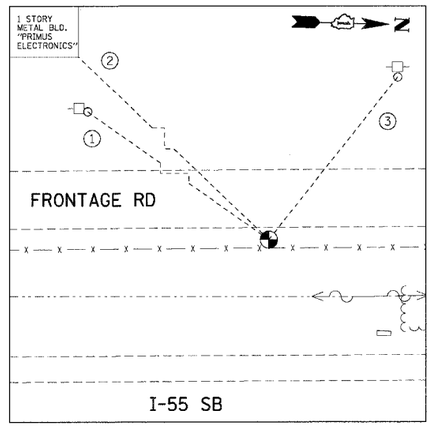
TP27

(N 1776768.806, E 1026122.916, ELEV. 591.174)
(1) PK NAIL ON EAST FACE OF POWER POLE, 99.90'
(2) PK NAIL ON EAST FACE OF POWER POLE, 53.50'
(3) PK NAIL ON EAST FACE OF POWER POLE, 121.63'



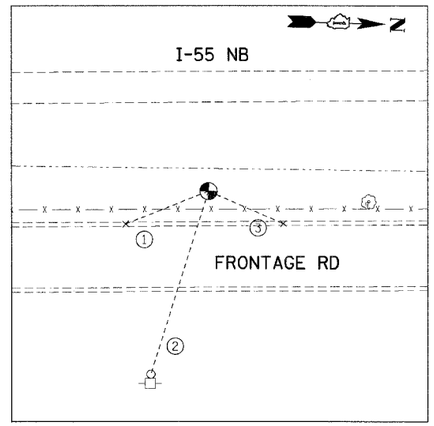
TP28

(N 1777544.478, E 1026283.640, ELEV. 598.777)
(1) PK NAIL ON EAST FACE OF 22" TREE, 117.40'
(2) CUT CROSS ON TOP OF CURB, 44.00'
(3) PK NAIL ON WEST FACE OF POWER POLE, 85.90'



TP29

(N 1778396.107, E 1026063.864, ELEV. 595.111)
(1) PK NAIL ON NORTH FACE OF POWER POLE, 161.41'
(2) NEAREST CORNER OF BUILDING, 260.10'
(3) PK NAIL ON SURFACE OF POWER POLE, 74.90'



TP30

(N 1779803.620, E 1026196.284, ELEV. 590.699)
(1) CUT CROSS ON TOP OF CURB, 32.10'
(2) PK NAIL ON WEST FACE OF POWER POLE, 69.30'
(3) CUT CROSS ON TOP OF CURB, 29.40'

NOTE:
ALL CONTROL POINTS ON THIS SHEET WERE SET WITH 2" IRON ROD WITH YELLOW CAP

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING

ALIGNMENT, TIES AND BENCHMARKS VIII

SCALE: N.T.S. DRAWN BY SB
DATE 05/19/06 CHECKED BY DDH

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

PLOT DATE = $DATE$
FILE NAME = $FILE$
PLOT SCALE = $SCALE$
USER NAME = $USER$

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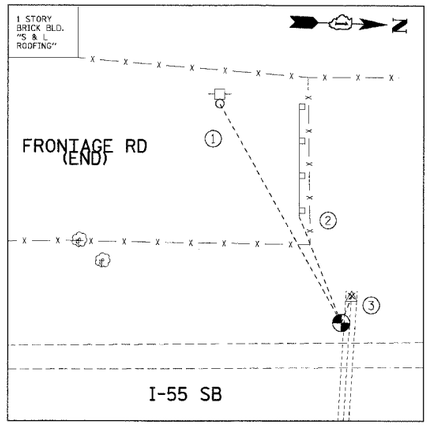
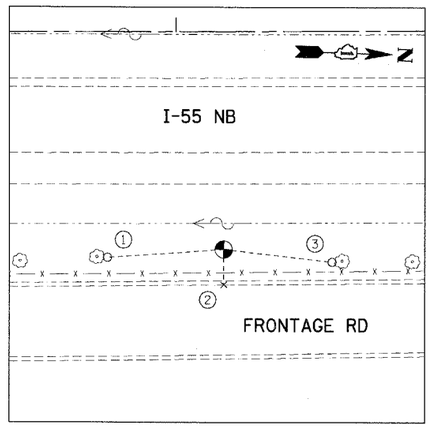
CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	13
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



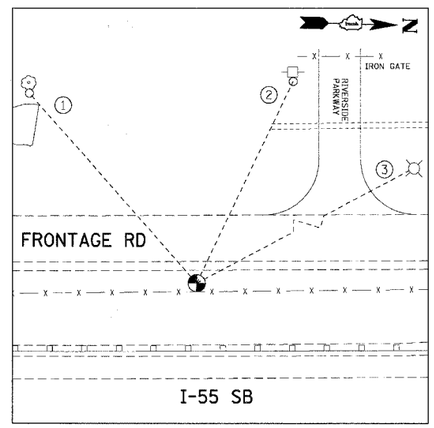
TP31

(N 1780473.889, E 1026024.869, ELEV. 590.948)
① PK NAIL ON EAST FACE OF POWER POLE, 90.30'
② EAST END OF GUARDRAIL, 40.90'
③ CROSS CUT ON TOP OF CULVERT (48" RCP), 10.30'



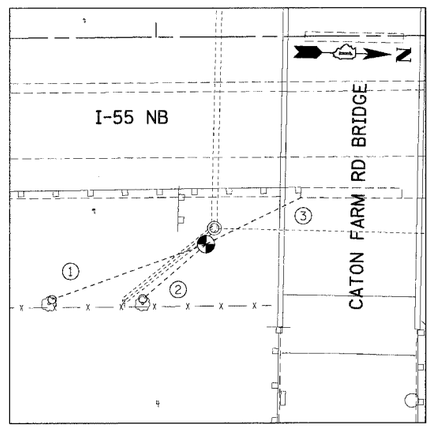
TP32

(N 1781774.617, E 1026117.977, ELEV. 590.111)
① PK NAIL ON NORTH FACE OF 14" TREE, 42.10'
② CROSS CUT ON TOP OF CURB, 12.70'
③ PK NAIL ON SOUTH FACE OF 14" TREE, 39.35'



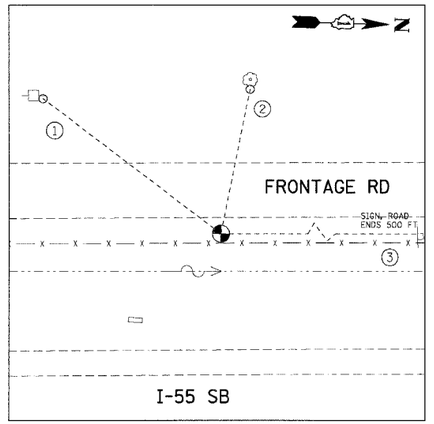
TP33

(N 1782710.684, E 1025927.485, ELEV. 593.501)
① PK NAIL ON EAST FACE OF 14" TREE, 91.21'
② PK NAIL ON EAST FACE OF POWER POLE, 80.63'
③ NEAREST FACE OF LIGHT POLE, 123.90'



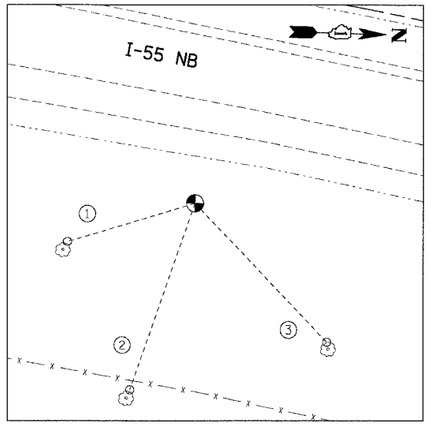
TP34

(N 1784173.688, E 1026029.171, ELEV. 594.050)
① PK NAIL ON WEST FACE OF 10" TREE, 58.95'
② PK NAIL ON WEST FACE OF 16" TREE, 30.10'
③ NEAREST CORNER OF CONC. PIER BASE, 38.40'



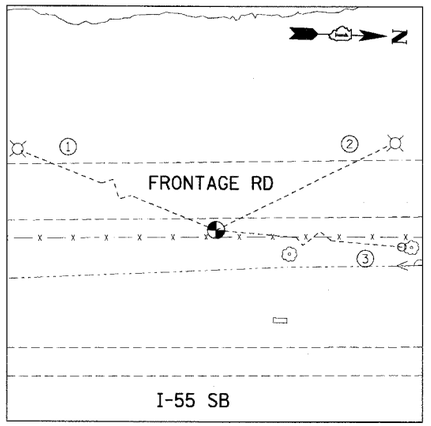
TP35

(N 1779556.639, E 1026022.677, ELEV. 591.351)
① PK NAIL ON NORTH FACE OF POWER POLE, 80.45'
② PK NAIL ON EAST FACE OF 8" TREE, 63.00'
③ NEAREST CORNER OF SIGN POST, 232.20'



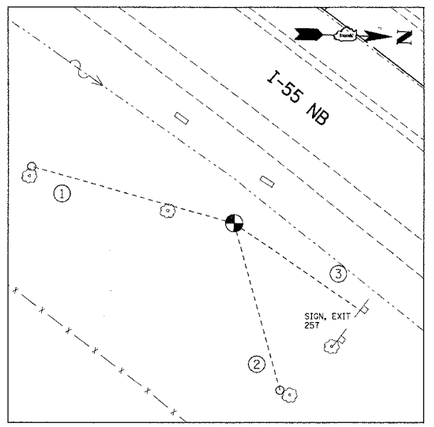
TP36

(N 1786210.447, E 1026049.592, ELEV. 613.010)
① PK NAIL ON WEST FACE OF 12" TREE, 48.10'
② PK NAIL ON WEST FACE OF 16" TREE, 71.30'
③ PK NAIL ON WEST FACE OF 20" TREE, 69.00'



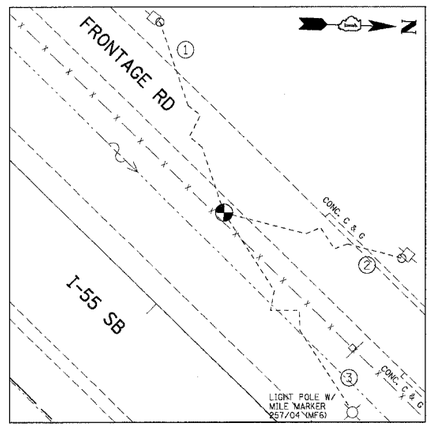
TP37

(N 178505.820, E 1025826.282, ELEV. 591.733)
① PK NAIL ON NEAREST FACE OF LIGHT POLE, 115.26'
② PK NAIL ON NEAREST FACE OF LIGHT POLE, 70.05'
③ PK NAIL ON SOUTH FACE OF 8" TREE, 85.00'



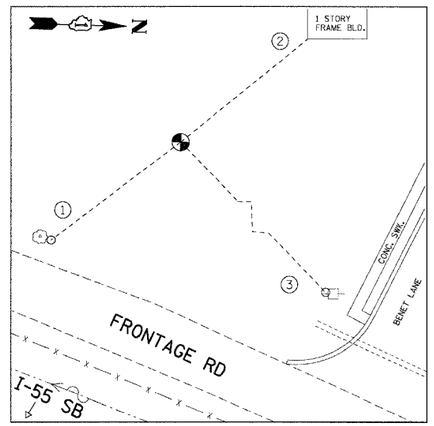
TP38

(N 1788140.673, E 1026852.265, ELEV. 622.426)
① PK NAIL ON WEST FACE OF 12" TREE, 75.80'
② PK NAIL ON SOUTH FACE OF 40" TREE, 62.60'
③ NEAREST CORNER OF SIGN POST, 56.70'



TP39

(N 1789328.938, E 1027661.770, ELEV. 615.232)
① PK NAIL ON NORTH FACE OF POWER POLE, 107.75'
② PK NAIL ON EAST FACE OF POWER POLE, 93.25'
③ NEAREST FACE OF LIGHT POLE, 119.10'



TP40

(N 1787188.516, E 102604.155, ELEV. 627.130)
① PK NAIL ON NORTH FACE OF 12" TREE, 58.60'
② NEAREST CORNER OF BUILDING, 59.00'
③ PK NAIL ON SOUTH FACE OF POWER POLE, 101.50'

NOTE:
ALL CONTROL POINTS ON THIS SHEET WERE SET WITH 2" IRON ROD WITH YELLOW CAP

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING

ALIGNMENT, TIES AND BENCHMARKS IX

SCALE: N.T.S. DRAWN BY SB
DATE 05/19/06 CHECKED BY DDH

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

PLOT DATE = $DATE$
FILE NAME = $FILE$
PLOT SCALE = $SCALE$
USER NAME = $USER$

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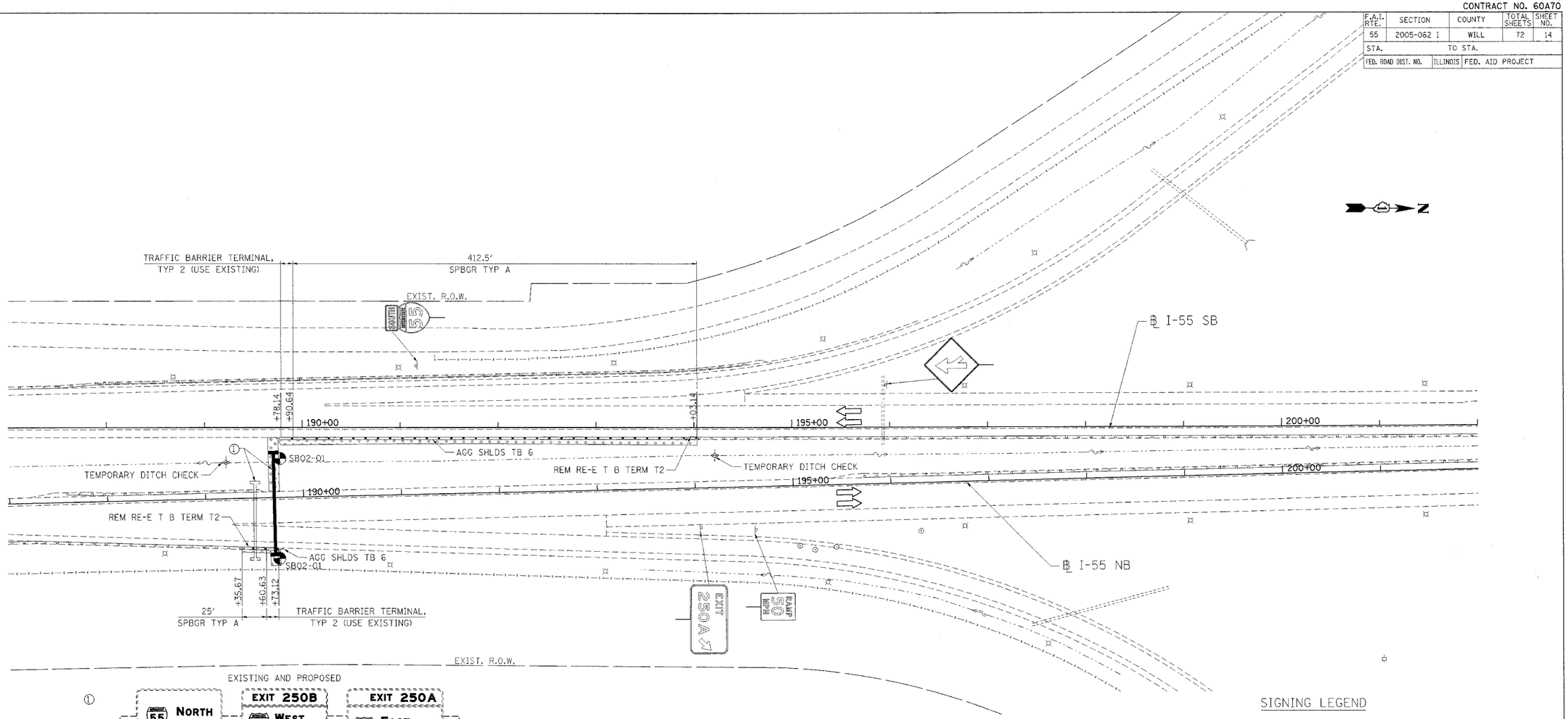
S:\T-ZOBS\1412561.DWG DWG.DWG S:\DOCS\DMEN\NE2\SIB01\1171-1\SIGN\TB077A029.SHT

CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	14
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SIGNING LEGEND

- EXISTING OVERHEAD TRUSS MOUNTED SIGN
- PROPOSED OVERHEAD TRUSS MOUNTED SIGN
- PROPOSED DYNAMIC MESSAGE SIGN
- EXISTING OVERHEAD CANTILEVER SIGN
- PROPOSED OVERHEAD CANTILEVER SIGN
- EXISTING GROUND MOUNTED SIGN (1 POSTS)
- EXISTING GROUND MOUNTED SIGN (2 POSTS)
- PROPOSED GROUND MOUNTED SIGN (2 POSTS)

LEGEND

- SEEDING CLASS 2A, TOPSOIL FURNISH AND PLACE, (VAR. DEPTH) AND EROSION CONTROL
- DIRECTION OF TRAFFIC
- SOIL BORING

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING

SIGNING AND ROADWAY PLAN
SIGN TRUSS AT STA. 189+70.00 (NB)

SCALE: 1"=50'
DRAWN BY MW
DATE 05/19/06
CHECKED BY DDH

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

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FILE NAME = $FILEL$
PLOT SCALE = $SCALE$
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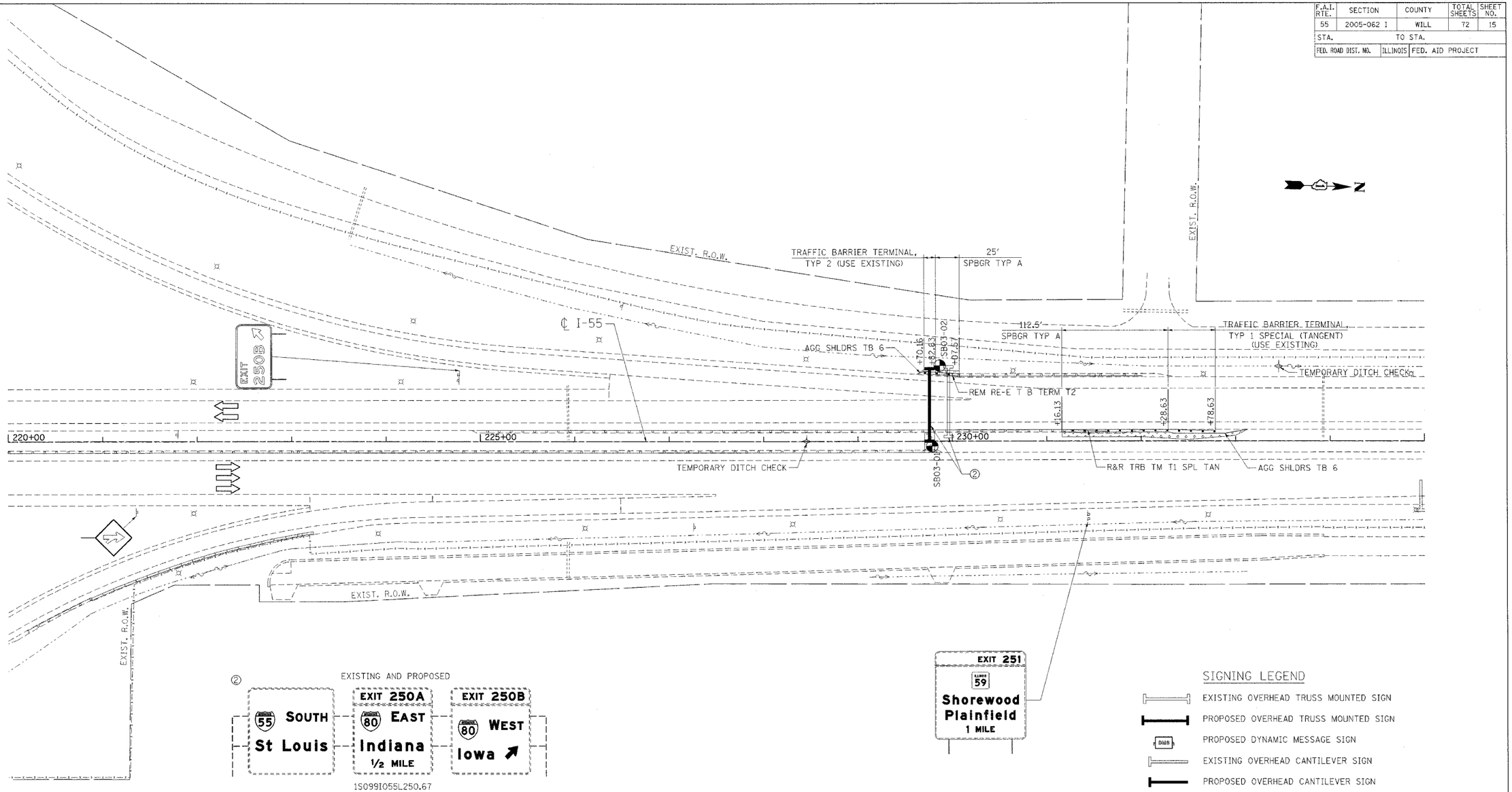
CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	15
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



② EXISTING AND PROPOSED

1S099I055L250.67
EXISTING STA. 229+96.00
PROPOSED STA. 229+76.00

° ERECT OVHD SIN STR-SPAN T1A 20 FT SOUTH OF EXISTING
° REL SIGN PANEL T3 FROM EXISTING TRUSS TO NEW TRUSS
° REMOV OH SIN STR-SPN
° REM CONC FDN-OVHD

SIGNING LEGEND

- EXISTING OVERHEAD TRUSS MOUNTED SIGN
- PROPOSED OVERHEAD TRUSS MOUNTED SIGN
- PROPOSED DYNAMIC MESSAGE SIGN
- EXISTING OVERHEAD CANTILEVER SIGN
- PROPOSED OVERHEAD CANTILEVER SIGN
- EXISTING GROUND MOUNTED SIGN (1 POSTS)
- EXISTING GROUND MOUNTED SIGN (2 POSTS)
- PROPOSED GROUND MOUNTED SIGN (2 POSTS)

LEGEND

- SEEDING CLASS 2A, TOPSOIL FURNISH AND PLACE, (VAR. DEPTH) AND EROSION CONTROL
- DIRECTION OF TRAFFIC
- SOIL BORING

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING

SIGNING AND ROADWAY PLAN SIGN TRUSS AT STA. 229+76.00 (SB)

SCALE: 1"=50'
DRAWN BY MW
DATE 05/19/06
CHECKED BY DDH

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

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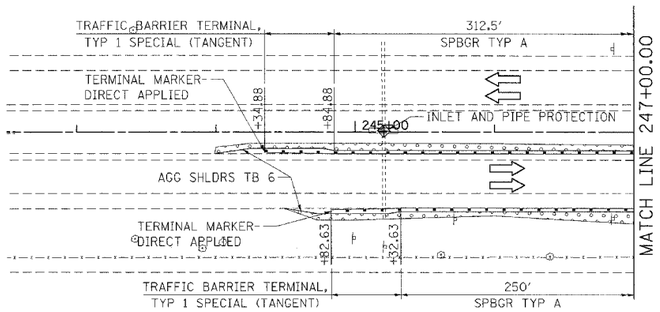
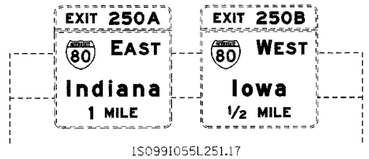
CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	16
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

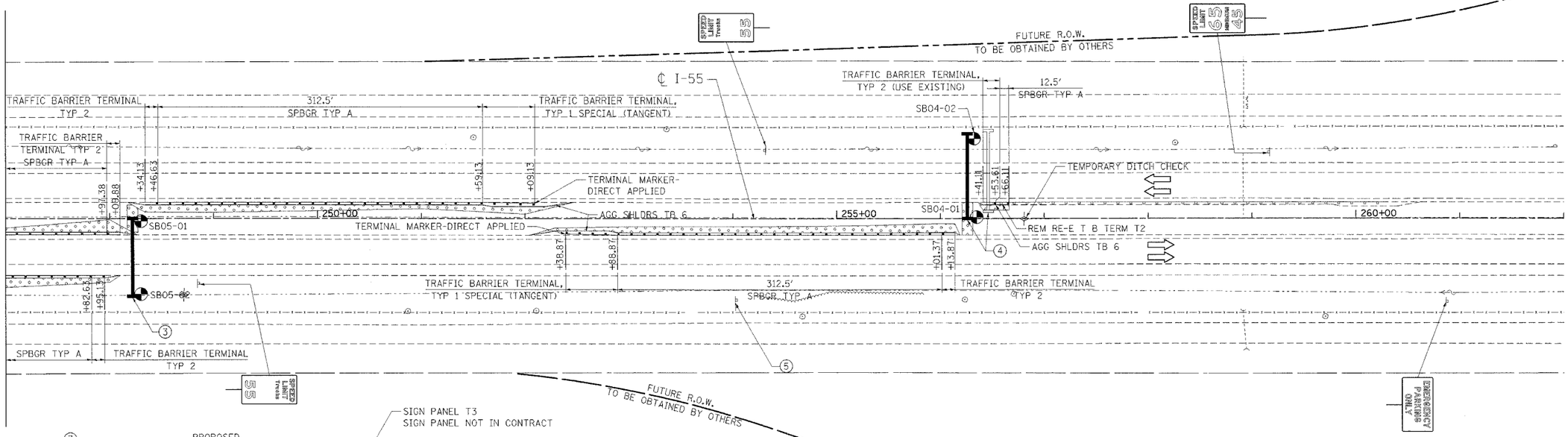


④ EXISTING AND PROPOSED

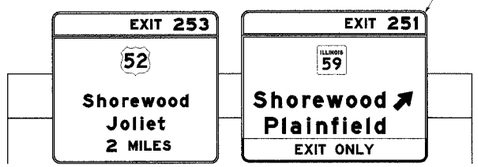


1S099I055L251.17
EXISTING STA 256+46
PROPOSED STA 256+26

- ERECT OVHD SIN STR-SPAN T1A 20 FT SOUTH OF EXISTING
- REL SIGN PANEL T3 FROM EXISTING TRUSS TO NEW TRUSS
- REMOV OH SIN STR-SPN
- REM CONC FDN-OVHD



③ PROPOSED



SIGN PANEL T3

1S099I055R251.02
STA. 248+22.00

- ERECT OVHD SIN STR-SPAN T1A
- INSTALL SIGN PANEL T3

⑤

STA. 254+02
EXISTING - TO REMAIN

SIGNING LEGEND

- EXISTING OVERHEAD TRUSS MOUNTED SIGN
- PROPOSED OVERHEAD TRUSS MOUNTED SIGN
- PROPOSED DYNAMIC MESSAGE SIGN
- EXISTING OVERHEAD CANTILEVER SIGN
- PROPOSED OVERHEAD CANTILEVER SIGN
- EXISTING GROUND MOUNTED SIGN (1 POSTS)
- EXISTING GROUND MOUNTED SIGN (2 POSTS)
- PROPOSED GROUND MOUNTED SIGN (2 POSTS)

LEGEND

- SEEDING CLASS 2A, TOPSOIL FURNISH AND PLACE, (VAR. DEPTH) AND EROSION CONTROL
- DIRECTION OF TRAFFIC
- SOIL BORING

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING

SIGNING AND ROADWAY PLAN SIGN TRUSS AT STA. 248+22.00 (NB) AND STA. 256+26.00 (SB)

SCALE: 1"=50'
DRAWN BY MW
DATE 05/19/06
CHECKED BY DDH

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

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PLOT SCALE = $SCALE$
USER NAME = $USER$

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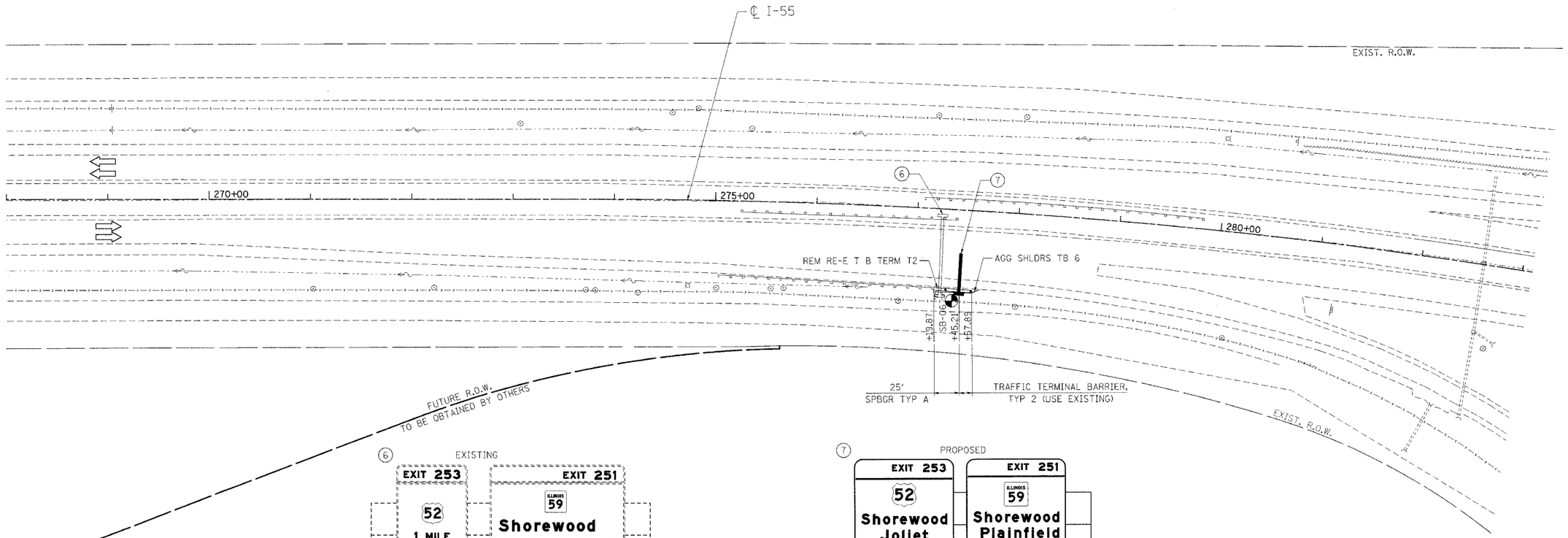
CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	17
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SIGNING LEGEND

- EXISTING OVERHEAD TRUSS MOUNTED SIGN
- PROPOSED OVERHEAD TRUSS MOUNTED SIGN
- PROPOSED DYNAMIC MESSAGE SIGN
- EXISTING OVERHEAD CANTILEVER SIGN
- PROPOSED OVERHEAD CANTILEVER SIGN
- EXISTING GROUND MOUNTED SIGN (1 POSTS)
- EXISTING GROUND MOUNTED SIGN (2 POSTS)
- PROPOSED GROUND MOUNTED SIGN (2 POSTS)



6 EXISTING

EXISTING STA. 277+25

W13-3
EXISTING SIGN
STA. 277+25
REMOV SIGN PANEL T2

7 PROPOSED

SIGN PANEL T3 SIGN PANEL T3

W13-3
STA. 277+45
SIGN PANEL T2

1C099I055R251.56
STA. 277+45

- ERECT OSS CANT 3CA 20 FT NORTH OF EXISTING TRUSS
- INSTALL PROPOSED SIGN PANEL T3 ON NEW TRUSS
- REMOV SIGN PANEL T3 FROM EXISTING TRUSS
- REMOV OH SIN STR-SPN
- REM CONC FDN-OVHD

LEGEND

- SEEDING CLASS 2A, TOPSOIL FURNISH AND PLACE, (VAR. DEPTH) AND EROSION CONTROL
- DIRECTION OF TRAFFIC
- SOIL BORING

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING

SIGNING AND ROADWAY PLAN
SIGN TRUSS AT STA. 277+45.00 (NB)

SCALE: 1"=50' DRAWN BY MW
DATE 05/19/06 CHECKED BY DDH

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

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FILE NAME = $FILEL$
PLOT SCALE = $SCALE$
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CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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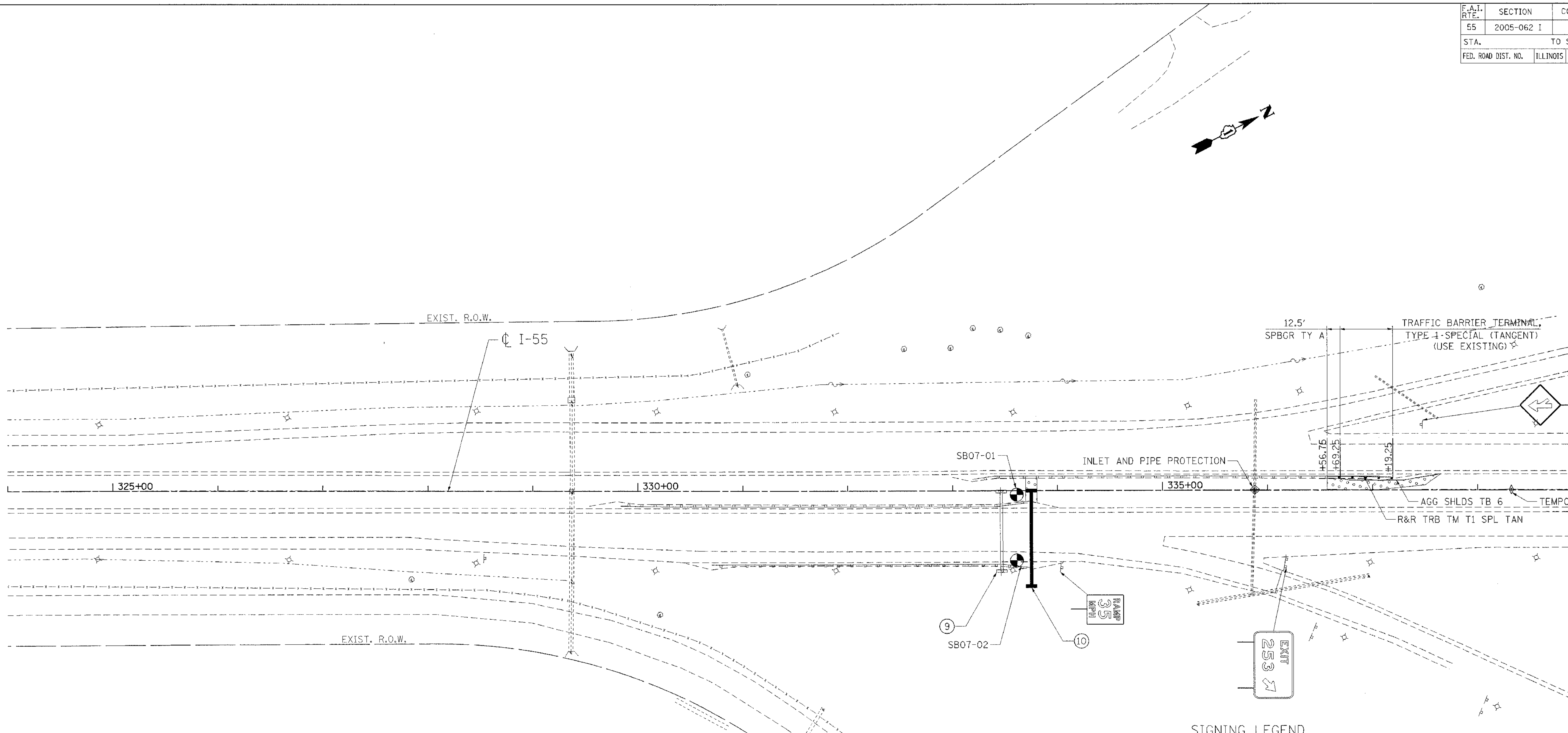
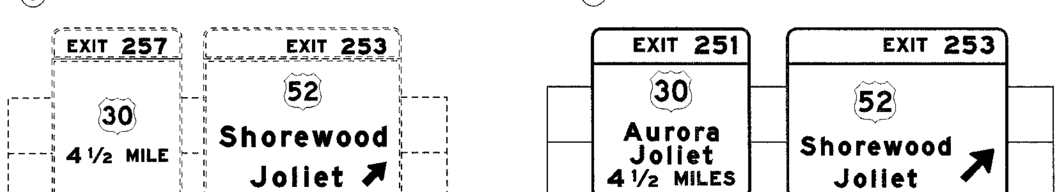
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



(9) EXISTING

(10) PROPOSED



STA. 333+47.00

SIGN PANEL T3 SIGN PANEL T3

1S099I055R252.64
STA. 333+75.00

° ERECT OVHD SIN STR-SPAN T1A 28 FT NORTH OF EXISTING
° INSTALL PROPOSED SIGN PANEL T3 ON NEW TRUSS
° REMOV SIGN PANEL T3 FROM EXISTING TRUSS
° REMOV OH SIN STR-SPN
° REM CONC FDN-OVHD

SIGNING LEGEND

- EXISTING OVERHEAD TRUSS MOUNTED SIGN
- PROPOSED OVERHEAD TRUSS MOUNTED SIGN
- DMS PROPOSED DYNAMIC MESSAGE SIGN
- EXISTING OVERHEAD CANTILEVER SIGN
- PROPOSED OVERHEAD CANTILEVER SIGN
- EXISTING GROUND MOUNTED SIGN (1 POSTS)
- EXISTING GROUND MOUNTED SIGN (2 POSTS)
- PROPOSED GROUND MOUNTED SIGN (2 POSTS)

LEGEND

- SEEDING CLASS 2A, TOPSOIL FURNISH AND PLACE, (VAR. DEPTH) AND EROSION CONTROL
- DIRECTION OF TRAFFIC
- SOIL BORING

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING

SIGNING AND ROADWAY PLAN
SIGN TRUSS AT STA. 333+75.00 (NB)

SCALE: 1″=50′ DRAWN BY MW
DATE 05/19/06 CHECKED BY DDH

TENG — TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS

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CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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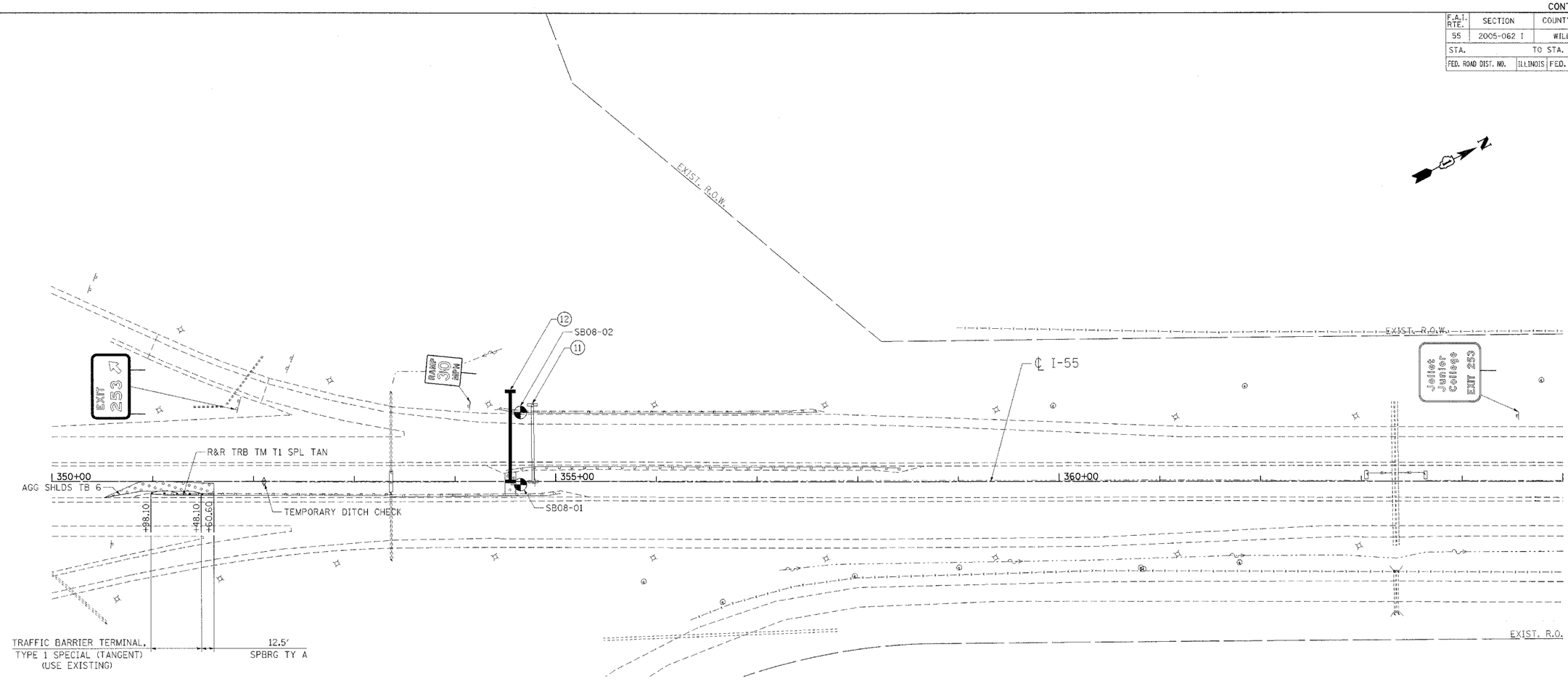
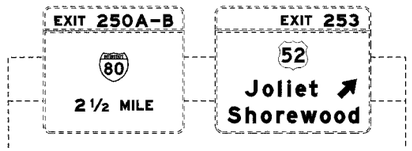
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



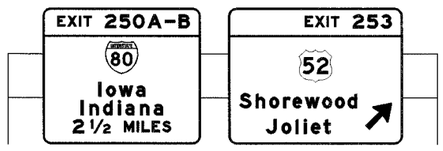
(11) EXISTING



STA. 354+75.00

- ERECT OVHD SIN STR-SPAN T1A 20 FT SOUTH OF EXISTING
- INSTALL PROPOSED SIGN PANEL T3 ON NEW TRUSS
- REMOV SIGN PANEL T3 FROM EXISTING TRUSS
- REMOV OH SIN STR-SPN
- REM CONC FDN-OVHD

(12) PROPOSED



SIGN PANEL T3 SIGN PANEL T3

1S099I055L253.03
STA 354+55.00

SIGNING LEGEND

- EXISTING OVERHEAD TRUSS MOUNTED SIGN
- PROPOSED OVERHEAD TRUSS MOUNTED SIGN
- PROPOSED DYNAMIC MESSAGE SIGN
- EXISTING OVERHEAD CANTILEVER SIGN
- PROPOSED OVERHEAD CANTILEVER SIGN
- EXISTING GROUND MOUNTED SIGN (1 POSTS)
- EXISTING GROUND MOUNTED SIGN (2 POSTS)
- PROPOSED GROUND MOUNTED SIGN (2 POSTS)

LEGEND

- SEEDING CLASS 2A, TOPSOIL FURNISH AND PLACE, (VAR. DEPTH) AND EROSION CONTROL
- DIRECTION OF TRAFFIC
- SOIL BORING

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING

SIGNING AND ROADWAY PLAN
SIGN TRUSS AT STA. 354+55.00 (SB)

SCALE: 1"=50' DRAWN BY MW
DATE 05/19/06 CHECKED BY ODH

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

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PLOT SCALE = $SCALE$
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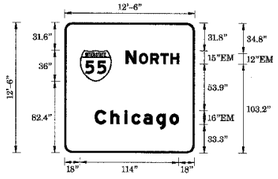
CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	20
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SIGN DETAIL
1:75



SIGN NUMBER	1S09991055R249.90LT
WIDTH x HGHT.	12'-6" x 12'-6"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /Pure White

SYMBOL	X	Y	WID	HT
M1_1	18	82.4	36	36

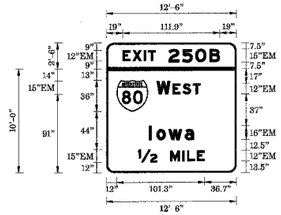
Panel Style:MikeTest.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

N	O	R	T	H																	LENGTH	SERIES/SIZE
70.7	86.1	99.1	111.1	122.4																		EM15,EM12
C	h	i	c	a	g	o															61.4	
35	53.1	69.3	77.3	91.2	106.3	121.4															97	EM1612

SIGN DETAIL
1:75



SIGN NUMBER	1S09991055R249.90CN
WIDTH x HGHT.	12'-6" x 10'-0"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /Pure White

SYMBOL	X	Y	WID	HT
M1_1	12	71	36	36

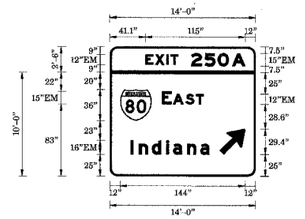
Panel Style:MikeTEst.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

E	X	I	T	2	5	0	B														LENGTH	SERIES/SIZE
19	30.3	43.2	48	71.8	87.6	102.7	119															EM12,EM15
W	E	S	T																		112	
58	76.5	87.8	99.9																		50.7	EM15,EM12
i	o	w	a																			
49.2	57.8	71.6	90.6																		51.6	EM1612
½	M	I	L	E																		
36.7	73.7	87.8	93.2	104.5																	76.6	EM15,EM12

SIGN DETAIL
1:75



SIGN NUMBER	S0991055R249.90RT
WIDTH x HGHT.	14'-0" x 10'-0"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /Pure White

SYMBOL	X	Y	WID	HT
M1_1	12	64	36	36
ARMED	126.6	25	24	37.8

Panel Style:MikeTest.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

E	X	I	T	2	5	0	A														LENGTH	SERIES/SIZE
41.1	52.4	65.2	70	93.8	109.6	124.7	141															EM12,EM15
E	A	S	T																		115	
60	72.9	87.4	99.4																		48.2	EM15,EM12
I	n	d	i	a	n	a																
23.9	33.6	48.7	65	73	89.3	104.4															90.7	EM1612

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING

SIGN PANEL DETAILS
I

SCALE: N.T.S. DRAWN BY MW
DATE 05/19/06 CHECKED BY DDH

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

PLOT DATE = $DATE$
FILE NAME = $FILEL$
PLOT SCALE = $SCALE$
USER NAME = $USER$

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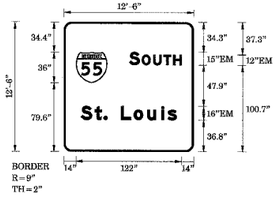
24-16-2006

CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	21
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SIGN DETAIL
1:75



SIGN NUMBER	1S099f055L250.67LT
WIDTH x HGHT.	12'-6" x 12'-6"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /Pure White

SYMBOL	X	Y	WID	HT
M1_1	14	79.6	36	36

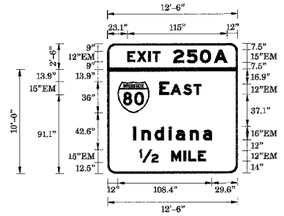
Panel Style:MikeTEst.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

S	O	U	T	H					LENGTH	SERIES:SIZE
75.3	90.1	103.1	115.1	126.4					60.7	EM15,EM12
S	t	.		L	o	u	i	s		EM1612
19.6	35.8	45.9	49.9	65.9	80.9	96.3	112.6	120.2	110.8	

SIGN DETAIL
1:75



SIGN NUMBER	1S099f055L250.67CN
WIDTH x HGHT.	12'-6" x 10'-0"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /Pure White

SYMBOL	X	Y	WID	HT
M1_1	12	70.1	36	36

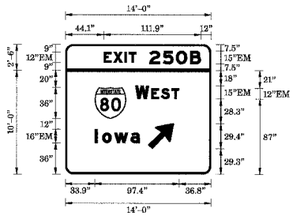
Panel Style:MikeTEst.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

E	X	I	T	2	5	0	A															LENGTH	SERIES:SIZE
23.1	34.4	47.2	52	75.8	91.6	106.7	123															115	EM12,EM15
E	A	S	T																				
60	72.9	87.3	99.4																			48.2	EM15,EM12
I	n	d	i	a	n	a																	
29.7	39.3	54.4	70.7	78.7	95.1	110.2																90.7	EM1612
1/2	M	I	L	E																			
36.7	73.7	87.5	93.2	104.5																		76.7	EM15,EM12

SIGN DETAIL
1:75



SIGN NUMBER	1S099f055L250.67RT
WIDTH x HGHT.	14'-0" x 10'-0"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /Pure White

SYMBOL	X	Y	WID	HT
M1_1	33.9	64	36	36
ARUP	92.1	16.5	24	37

Panel Style:MikeTEst.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

E	X	I	T	2	5	0	B															LENGTH	SERIES:SIZE
44.1	55.4	68.2	73	96.8	112.7	127.7	144															112	EM12,EM15
W	E	S	T																				
80.6	99.1	110.4	122.4																			50.7	EM15,EM12
I	o	w	a																				
33.9	42.5	56.4	75.3																			61.7	EM1612

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING

SIGN PANEL DETAILS II

SCALE: N.T.S. DRAWN BY MW
DATE 05/19/06 CHECKED BY DDH

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

PLOT DATE = $DATE$
FILE NAME = $FILEL$
PLOT SCALE = $SCALE$
USER NAME = $USER$

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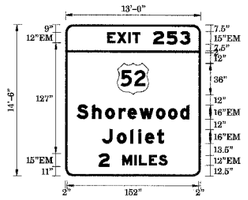
5-17-2006, 4:26:46 PM

CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	22
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SIGN DETAIL
1:75



SIGN NUMBER	1S0991055R251.02LT
WIDTH x HGHT.	13'-0" x 14'-6"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGENDBORDER	TYPE: Reflective
	COLOR: White /Pure White

SYMBOL	X	Y	WID	HT
M1_4	60	94	36	36

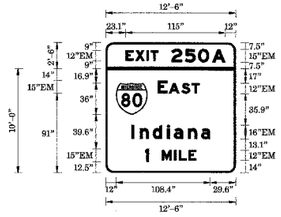
Panel Style:IDOTGROUND.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

																				LENGTH	SERIESSIZE
E	X	I	T	2	5	3															EM12,EM15
48.4	59.7	72.5	77.4	101.1	117	132														95.6	
S	h	o	r	e	w	o	o	d													EM1612
13.1	31	46.2	61.6	71.8	85.5	104.5	118.6	132.6												129.8	
J	o	l	i	e	t																EM1612
42.2	59.6	75.1	84.1	92.1	105.7															71.5	
2	M	I	L	E	S																EM15,EM12
38.6	65.6	79.8	85.2	96.5	107.7															78.9	

SIGN DETAIL
1:75



SIGN NUMBER	1S0991055R251.17LT
WIDTH x HGHT.	12'-5" x 12'-5"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGENDBORDER	TYPE: Reflective
	COLOR: White /Pure White

SYMBOL	X	Y	WID	HT
M1_1	12	67.1	36	36

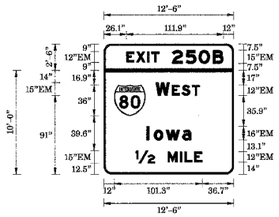
Panel Style:MikeTEst.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

																				LENGTH	SERIESSIZE
E	X	I	T	2	5	0	A														EM12,EM15
23.1	34.3	47.2	52	75.8	91.6	106.7	123													115	
E	A	S	T																		EM15,EM12
60	72.9	87.2	99.4																	48.2	
I	n	d	i	a	n	a															EM1612
29.7	39.3	54.5	70.7	78.7	95.1	110.2														90.7	
1	M	I	L	E																	EM15,EM12
45.5	64.9	79	84.5	95.7																59.1	

SIGN DETAIL
1:75



SIGN NUMBER	1S0991055R251.17RT
WIDTH x HGHT.	12'-6" x 10'-0"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGENDBORDER	TYPE: Reflective
	COLOR: White /Pure White

SYMBOL	X	Y	WID	HT
M1_1	12	67.1	36	36

Panel Style:MikeTEst.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

																				LENGTH	SERIESSIZE
E	X	I	T	2	5	0	B														EM12,EM15
26.1	37.4	50.2	55.1	78.8	94.7	109.7	126													112	
W	E	S	T																		EM15,EM12
60	78.5	89.8	101.9																	50.7	
I	o	w	a																		EM1612
49.2	57.8	71.7	90.6																	51.7	
1/2	M	I	L	E																	EM15,EM12
36.7	73.7	87.8	93.2	104.5																76.7	

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING

SIGN PANEL DETAILS III

SCALE: N.T.S. DRAWN BY MW
DATE 05/19/06 CHECKED BY DDH

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

PLOT DATE = $DATE$
FILE NAME = $FILE$
PLOT SCALE = $SCALE$
USER NAME = $USER$

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5-17-2006, 1:26:47 GWICHMAZ

CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	23
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SIGN DETAIL
1:75

SIGN NUMBER	1C099I056R251.56LT
WIDTH x HGHT.	12'-6" x 12'-6"
BORDER WIDTH	1"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /Pure White

SYMBOL	X	Y	WID	HT
M1_4	57	77.7	36.1	36.1

Panel Style:guide_exp_advance_b.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

E	X	I	T	2	5	3														LENGTH	SERIESSIZE
57.3	66.7	77.4	81.4	102.7	116.4	128.4														80.6	EM10,EM12
S	h	o	r	e	w	o	o	d													
10.1	28.1	43.2	58.7	68.8	82.6	101.5	115.6	129.6												129.8	EM16/12
J	o	l	i	e	t																
39.2	56.6	72.1	81.1	89.1	102.7															71.6	EM16/12
1	M	I	L	E																	
47.7	63.1	74.9	79.4	88.8																48.5	EM12,EM10

SIGN DETAIL
1:75

SIGN NUMBER	1C099I055R251.56RT
WIDTH x HGHT.	12'-6" x 12'-6"
BORDER WIDTH	1"
CORNER RADIUS	12"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /Pure White

SYMBOL	X	Y	WID	HT
M136_2	57	78.5	36.1	36.1
ARMED	67.7	7	12	18.9

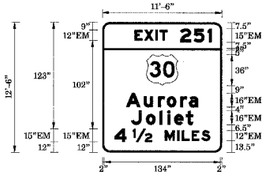
Panel Style:guide_exp_advance_b.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

E	X	I	T	2	5	1														LENGTH	SERIESSIZE
62.7	72.2	82.8	86.9	109.1	121.8	134.5														75.3	EM10,EM12
S	h	o	r	e	w	o	o	d													
10.1	28.1	43.2	58.7	68.8	82.6	101.5	115.6	129.6												129.8	EM16/12
P	l	a	i	n	f	i	e	l	d												
21.7	38.9	46.8	63	72.3	87.2	98.5	106.5	121.8	129.6											138.3	EM16/12
E	X	I	T																		
26.2	37.5	50.3	55.2																	37.8	EM12
O	N	L	Y																		
85.8	98.8	111.5	121.1																	47.3	EM12

SIGN DETAIL
1:75



SIGN NUMBER	1S099I055R252.64LT
WIDTH x HGHT.	11'-6" x 12'-6"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /Pure White

SYMBOL	X	Y	WID	HT
M1_4	51	77	36	36

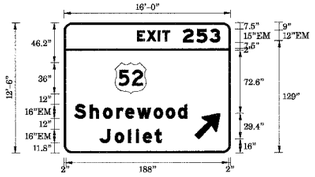
Panel Style:IDOTGROUND.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

E	X	I	T	2	5	1														LENGTH	SERIESSIZE
37.2	48.5	61.3	66.2	89.9	105.8	121.6														88.8	EM12,EM15
A	u	r	o	r	a																
27.7	47.9	64.3	74.5	90	100.1															82.6	EM16/12
J	o	l	i	e	t																
33.2	50.6	66.1	75.1	83.1	96.7															71.6	EM16/12
4	12	M	I	L	E	S															
14	35.3	72.3	86.4	91.8	103.1	114.4														110.2	EM12,EM15

SIGN DETAIL
1:75



SIGN NUMBER	1S099I056R252.64RT
WIDTH x HGHT.	16'-0" x 12'-6"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /Pure White

SYMBOL	X	Y	WID	HT
M1_4	58.9	67.8	36	36.1
ARMED	150.6	16	24	37.8

Panel Style:IDOTGROUND.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)

E	X	I	T	2	5	3														LENGTH	SERIESSIZE
84.4	95.7	108.5	113.4	137.1	153	168														95.7	EM12,EM15
S	h	o	r	e	w	o	o	d													
12	29.9	45.1	60.6	70.7	84.4	103.4	117.5	131.5												129.8	EM16/12
J	o	l	i	e	t																
41.1	58.5	74	83	91	104.6															71.6	EM16/12

REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING

SIGN PANEL DETAILS IV

SCALE: N.T.S. DRAWN BY MW

DATE 05/19/06 CHECKED BY DDH

TENG

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

PLOT DATE = #DATE#
FILE NAME = #FILE1#
PLOT SCALE = #SCALE#
USER NAME = #USER#

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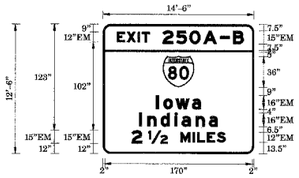
CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	24
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SIGN DETAIL

1:75



SIGN NUMBER	IS0991055R253.03LT
WIDTH x HGHT.	14'-6" x 12'-6"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /Pure White

SYMBOL	X	Y	WID	HT
M1_1	69	77	36	36.1

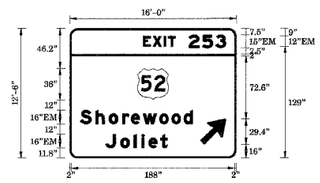
Panel Style:IDOTGROUND.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																								LENGTH	SERIESSIZE
E	X	I	T	2	5	0	A	–	B																EM12,EM15
16	27.5	40.2	45	68.7	84.6	99.7	116	134.9	150															146	
I	o	w	a																						EM1612
61.2	69.8	83.7	102.6																					51.7	
I	n	d	i	a	n	a																			EM1612
41.7	51.3	66.4	82.7	90.7	107.1	122.2																		90.7	
2	½	M	I	L	E	S																			EM15,EM12
32.9	52.4	89.4	103.5	108.9	120.2	131.5																		108.4	

SIGN DETAIL

1:75



SIGN NUMBER	IS0991055R253.03RT
WIDTH x HGHT.	16'-0" x 12'-6"
BORDER WIDTH	2"
CORNER RADIUS	9"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective
	COLOR: Green
LEGEND/BORDER	TYPE: Reflective
	COLOR: White /Pure White

SYMBOL	X	Y	WID	HT
M1_4	78	67.8	36	36.1
ARMED	150.6	16	24	37.8

Panel Style:IDOTGROUND.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

LETTER POSITIONS (X)																								LENGTH	SERIESSIZE
E	X	I	T	2	5	3																			EM12,EM15
84.4	95.7	108.5	113.4	127.1	153	168																		95.7	
S	h	o	r	e	w	o	o	d																	EM1612
12	29.9	45.1	60.6	70.7	84.4	103.4	117.5	131.5																129.8	
J	o	l	i	e	t																				EM1612
41.1	58.5	74	83	91	104.6																			71.6	

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING

SIGN PANEL DETAILS V

SCALE: N.T.S. DRAWN BY MW

DATE 05/19/06 CHECKED BY DDH

TENG

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

PLOT DATE = $DATE$
FILE NAME = $FILEL$
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CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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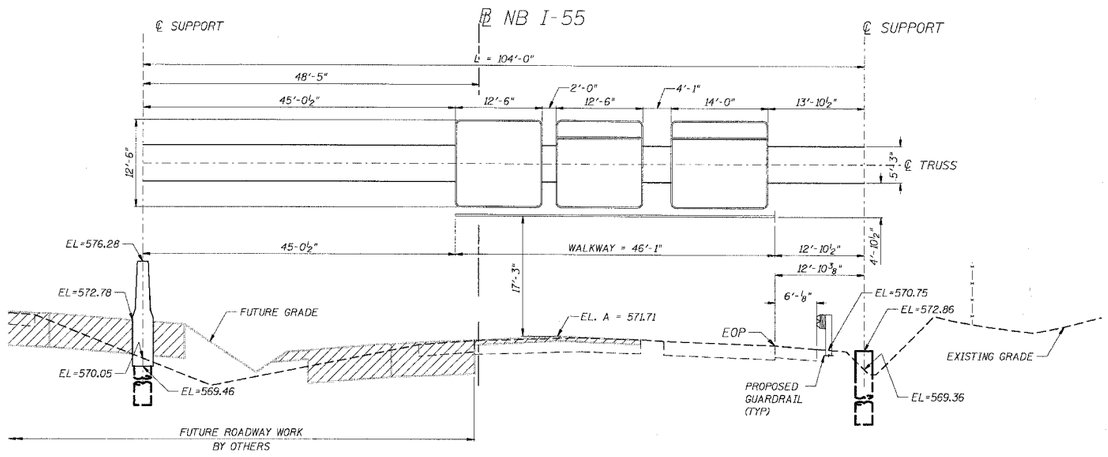
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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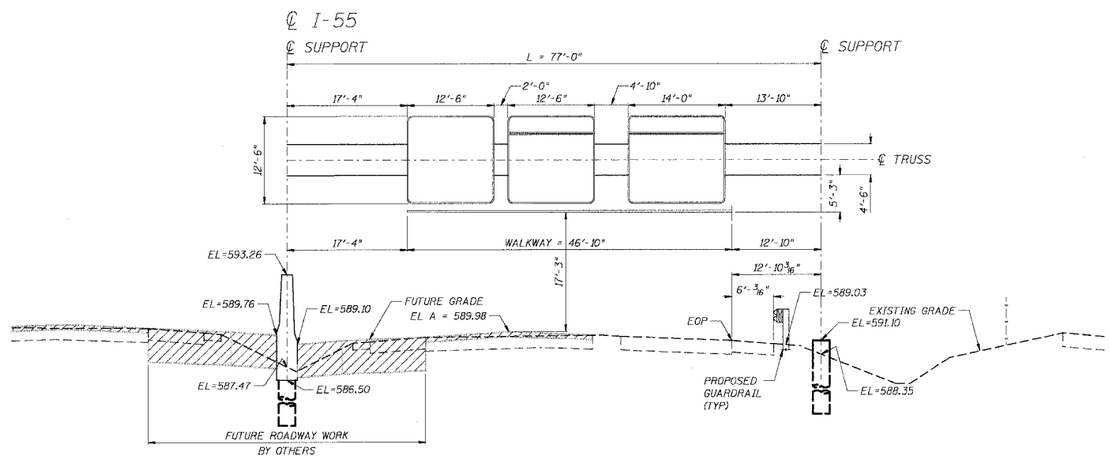

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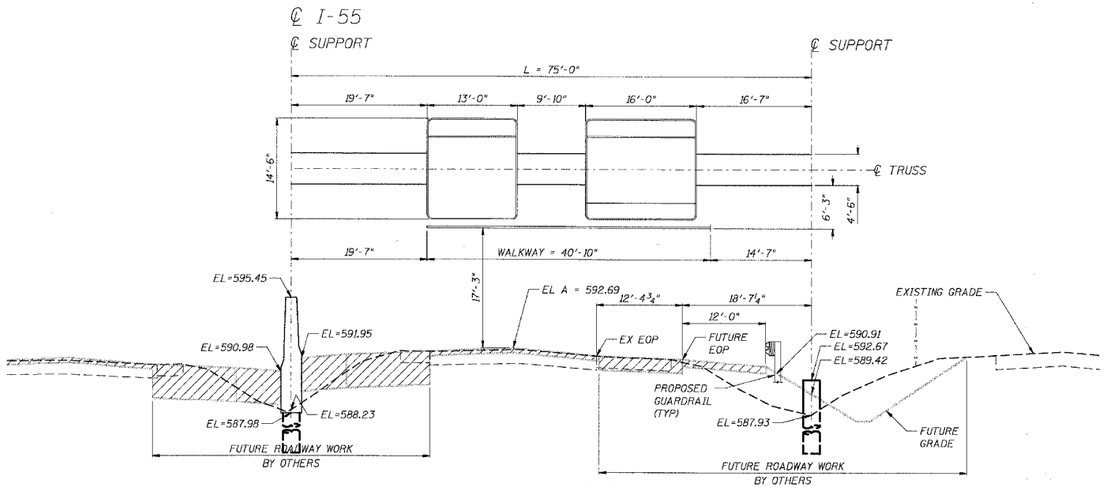

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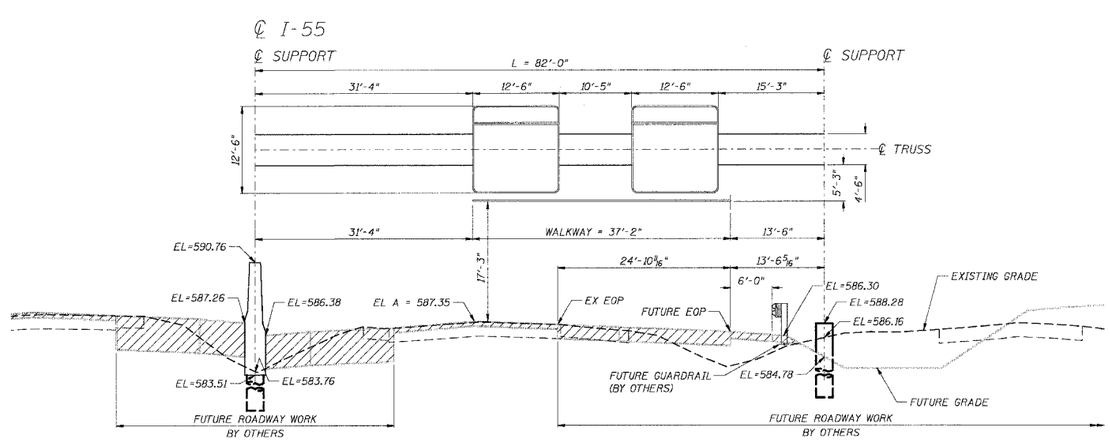

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING

SIGN STRUCTURE
SIGN PANEL
GENERAL ELEVATIONS - I

SCALE: N.T.S. DRAWN BY MW
DATE 05/19/06 CHECKED BY DDH

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

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CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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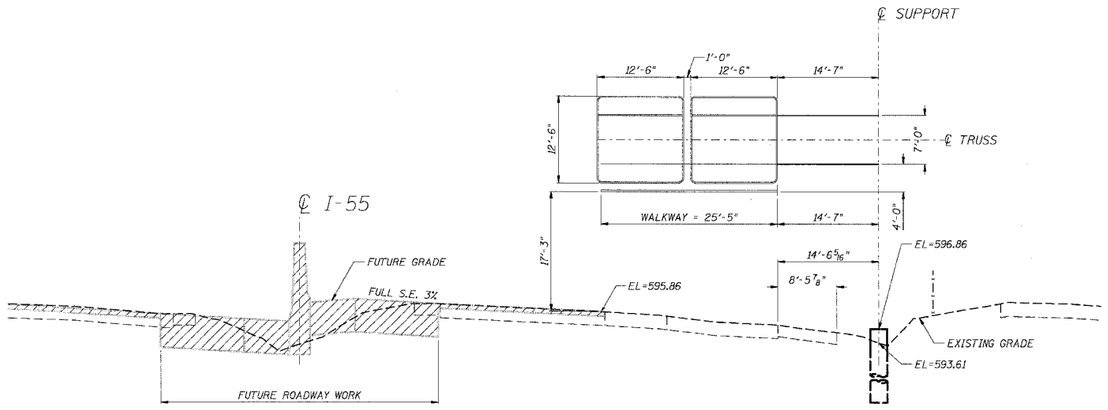
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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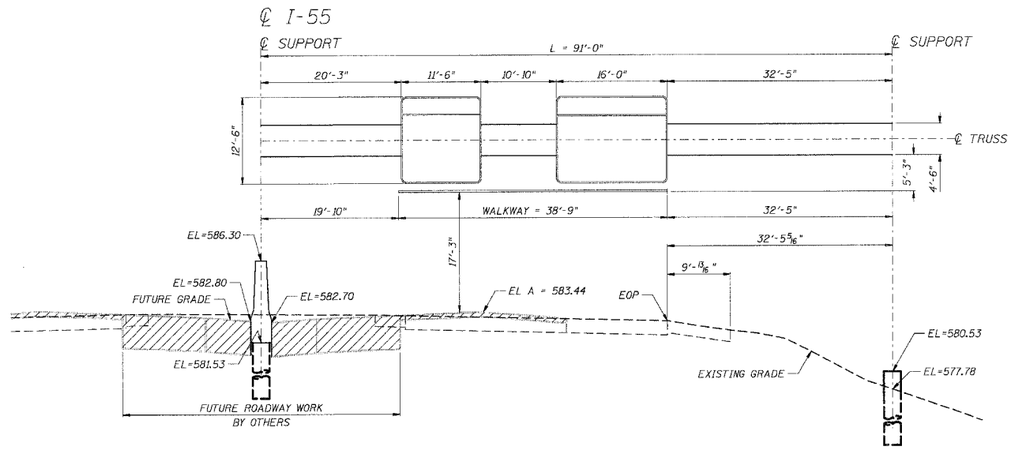
I-55 N.B LOOKING NORTH



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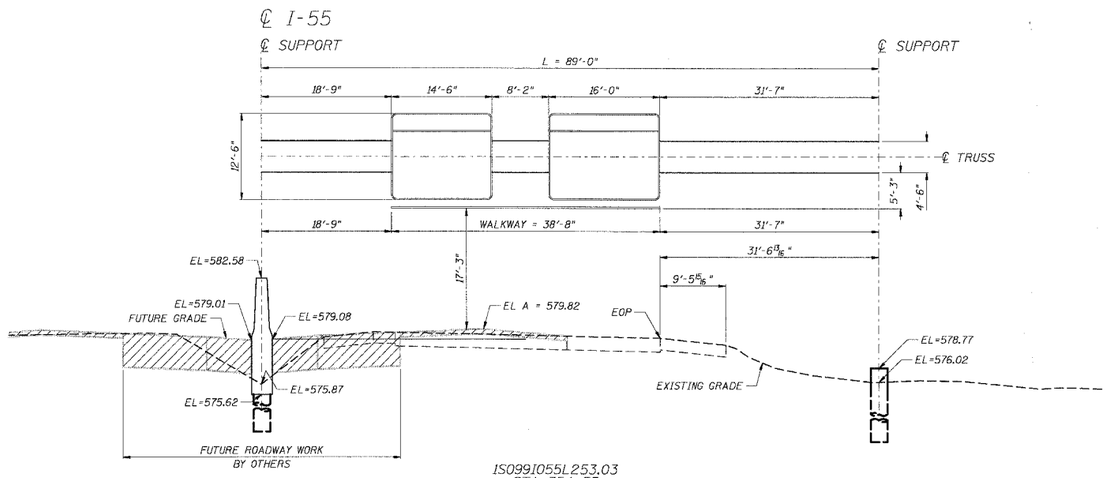

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING

SIGN STRUCTURE
SIGN PANEL
GENERAL ELEVATIONS - II

SCALE: N.T.S. DRAWN BY MW
DATE 05/19/06 CHECKED BY DDH

TENG

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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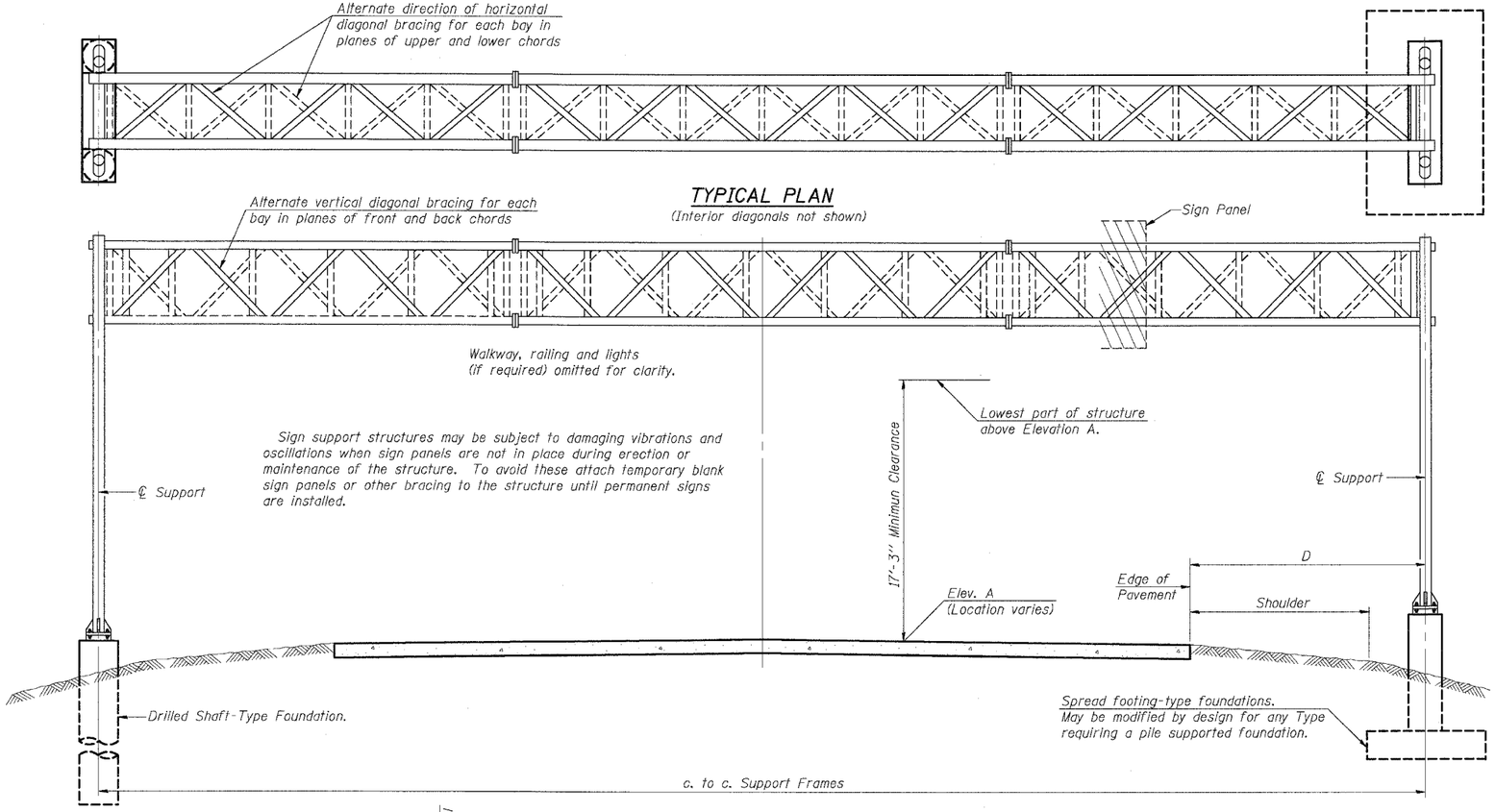
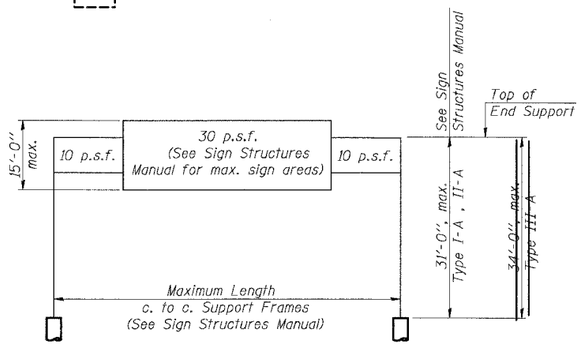
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TYPICAL PLAN
(Interior diagonals not shown)

TYPICAL ELEVATION
(Looking at Face of Signs**)

Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.



DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for I.D.O.T. Standards and Sign Manual Tables. Installations not within dimensional limits shown require special analysis for all components.

Structure Number	Station	Design Truss Type	c. to c. Supports	Elev. A	Dim. D	Height of Tallest Sign	Total Sign Area
IS099I055R249.90	189+70	II-A	102'-0"	571.71	12'-9"	12'-6"	487.5 sq. ft.
IS099I055L250.67	229+76	I-A	77'-0"	589.98	12'-10"	12'-6"	487.5 sq. ft.
IS099I055R251.02	248+22	I-A	75'-0"	592.69	18'-7"	14'-6"	420.5 sq. ft.
IS099I055L251.17	256+26	I-A	82'-0"	587.35	13'-6"	12'-6"	312.5 sq. ft.
IS099I055R252.64	333+75	I-A	91'-0"	583.44	32'-5"	12'-6"	343.75 sq. ft.
IS099I055L253.03	354+55	I-A	89'-0"	579.82	31'-7"	12'-6"	381.25 sq. ft.

**Looking upstation for structures with signs both sides.

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WIND LOADING: 30 p.s.f. normal to Sign Panel Area and truss elements not behind sign Loading Diagram.

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES:
Field Units
f'_c = 3,500 p.s.i.
fy = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B with a minimum yield of 35,000 p.s.i., or A500 Grade B or C with a minimum yield of 46,000 p.s.i. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.

All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.

The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to AASHTO M314 Gr. 36 or 55 with a minimum Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Bridge Seat Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE TYPE I-A (4'-0" x 4'-6")	Foot	414
OVERHEAD SIGN STRUCTURE TYPE II-A (4'-6" x 5'-3")	Foot	104
~~OVERHEAD SIGN STRUCTURE TYPE III-A (5'-0" x 7'-0")~~	~~Foot~~	
OVERHEAD SIGN STRUCTURE WALKWAY TYPE A	Foot	249
~~CONCRETE FOUNDATIONS~~	~~Cu. Yds.~~	
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	180.2
ROCK EXCAVATION FOR STRUCTURES	Cu. Yds.	23.1

NUMBER	REVISION	DATE

OS-A-1 1-7-05

SHT. S-1 OF 27

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING
WILL COUNTY

OVERHEAD SIGN STRUCTURES PLAN & ELEVATION ALUMINUM TRUSS & STEEL SUPPORTS

SCALE: DRAWN BY MDB
DATE 05/19/06 CHECKED BY MJK

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

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CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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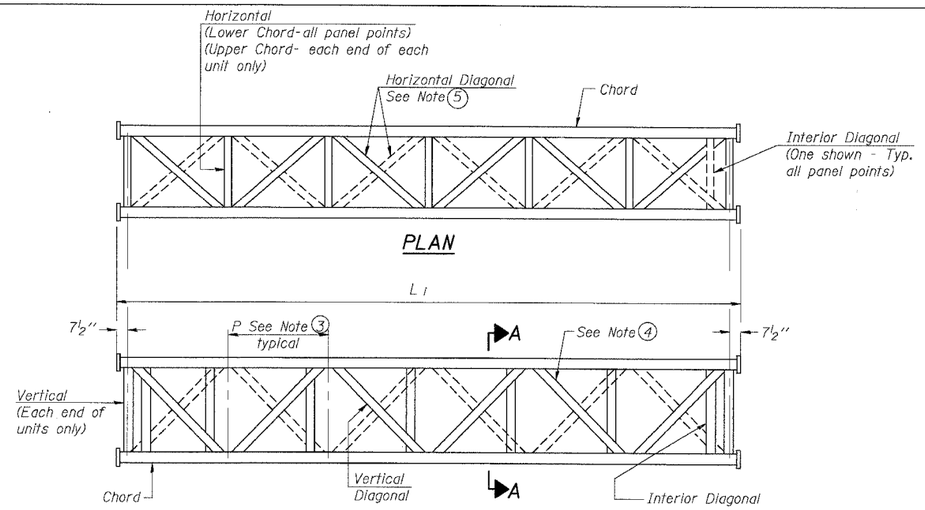
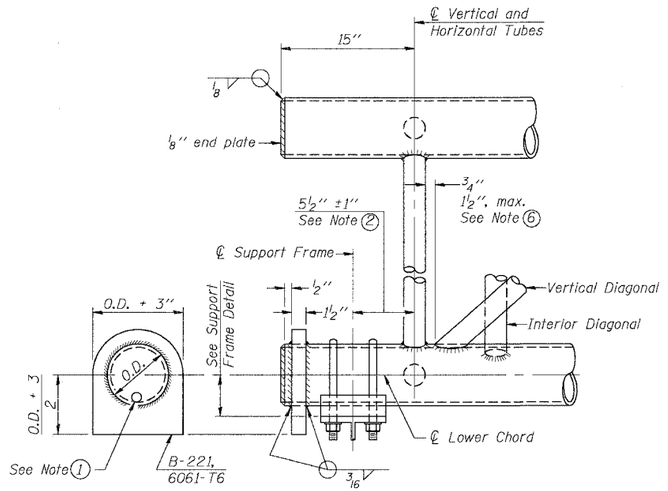
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

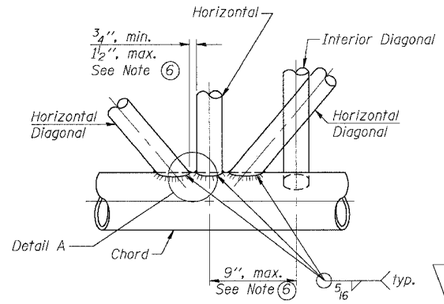


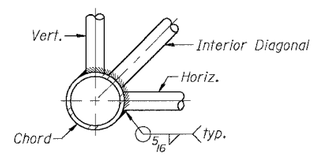
ELEVATION
TYPICAL INTERIOR UNIT

Even number of panels/interior unit required.

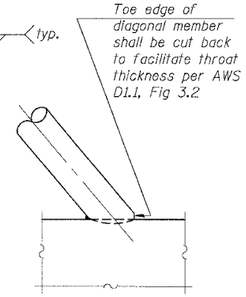


SUPPORT END DETAIL FOR EXTERIOR UNIT





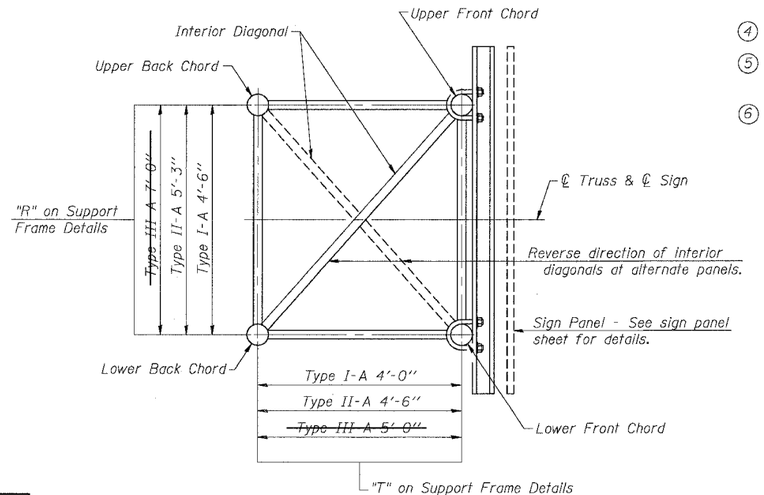
TYPICAL JOINT DETAILS



DETAIL A

ELEVATION
TYPICAL EXTERIOR UNIT

Even or odd number of panels/exterior units allowed.



SECTION A-A

NOTES

1. Contractor may alternatively use standard aluminum drive-fit cap to close end. ½" ϕ drain hole in end plate/drive-fit cap. (Typ. at ends of all chords)
2. 5½" end dimension may vary by ±1" to provide uniform panel spacing (P).
3. Panel spacing (P) shall be uniform for entire truss and between 4'-0" and 5'-0" for Type I-A or 4'-0" and 5'-6" for Types II-A and III-A.
4. Vertical Diagonals in front and back face shall alternate.
5. Hidden lines show wind bracing alternates direction between planes of top and bottom chords.
6. All diagonals shall be detailed for minimum offset from the panel point based on the following: Offset shall be such as to provide a ¾" minimum to 1½" maximum clearance between any diagonal and any horizontal or vertical member, and to provide clearance for U-bolt connections of signs or walkway brackets.

NUMBER	REVISION	DATE

OS-A-2 1-7-05

SHT. S-2 OF 27

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING
WILL COUNTY

OVERHEAD SIGN STRUCTURES ALUMINUM TRUSS DETAILS FOR TRUSS TYPES I-A, II-A AND III-A

SCALE: DRAWN BY MOB
DATE 05/19/06 CHECKED BY MJK

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

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CONTRACT NO. 60A70

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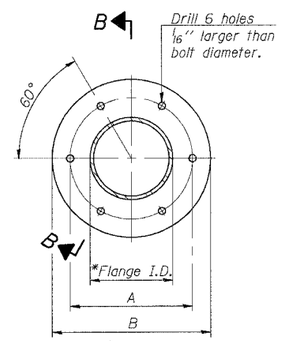
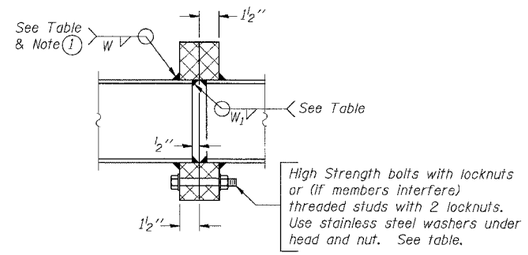
55	2005-062 I	WILL	72	29
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRUSS UNIT TABLE

Structure Number	Station	Design Truss Type	Exterior Units (2)			Interior Unit				Upper & Lower Chord		Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals		Camber at Midspan	Splicing Flange					
			No. Panels per Unit	Unit Lgth.(L_e)	Panel Lgth.(P)	No. Req'd.	No. Panels per Unit	Unit Lgth.(L_i)	Panel Lgth.(P)	O.D.	Wall	O.D.	Wall		Bolts		Weld Sizes		A	B
															No./Splice	Dia.	W	W_1		
IS099I055R249.90	189+70	II-A	7	37'-0¼"	5'-0¼"	1	6	31'-4½"	5'-0¼"	6½"	5/16"	3"	5/16"	3¼"	6	1"	3/8"	¼"	11"	14½"
IS099I055L250.67	229+76	I-A	8	39'-2½"	4'-8"					5"	5/16"	2½"	5/16"	2⅛"	6	⅞"	5/16"	¼"	8¾"	11¾"
IS099I055R251.02	248+22	I-A	8	38'-2½"	4'-6½"					5"	5/16"	2½"	5/16"	2"	6	⅞"	5/16"	¼"	8¾"	11¾"
IS099I055L251.17	256+26	I-A	5	26'-5½"	4'-11"	1	6	30'-9"	4'-11"	5"	5/16"	2½"	5/16"	2⅜"	6	⅞"	5/16"	¼"	8¾"	11¾"
IS099I055R252.64	333+75	I-A	6	31'-1½"	4'-10½"	1	6	30'-6"	4'-10½"	5½"	5/16"	2½"	5/16"	2¾"	6	⅞"	3/8"	¼"	9¼"	12¼"
IS099I055L253.03	354+55	I-A	6	30'-4½"	4'-9"	1	6	29'-9"	4'-9"	5"	5/16"	2½"	5/16"	2¾"	6	⅞"	5/16"	¼"	8¾"	11¾"

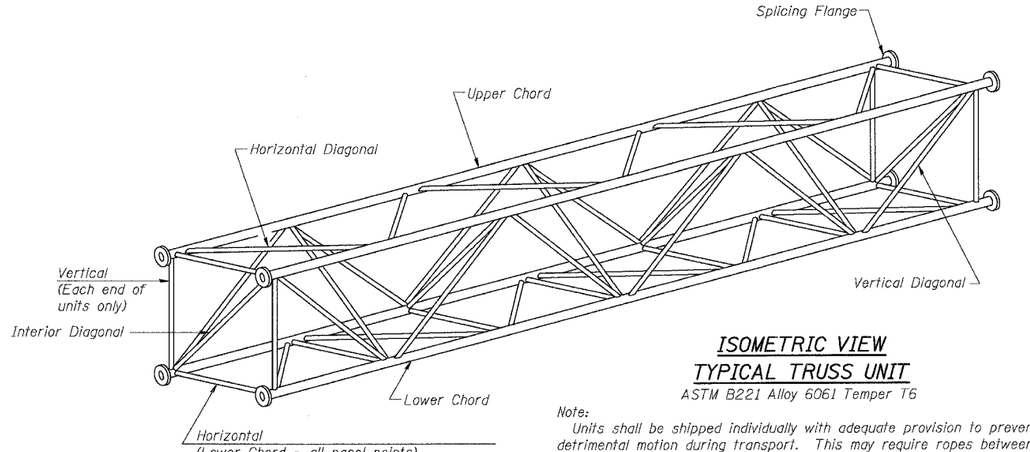


TRUSS TYPES I-A, II-A, & III-A



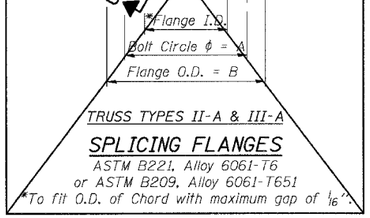
SECTION B-B

(1) Splicing Flanges shall be attached to each truss unit with the truss shop assembled to camber shown. Truss units shall be in proper alignment and flange surfaces shall be shop bolted into full contact before welding. Sufficient external welds or tacks shall be made to secure flanges until remaining welds are made after disassembly. Adjacent flanges shall be "match marked" to insure proper field assembly.



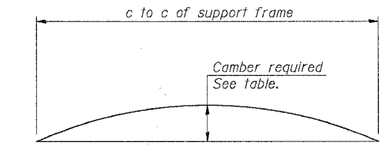
ISOMETRIC VIEW
TYPICAL TRUSS UNIT
ASTM B221 Alloy 6061 Temper T6

Note:
Units shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The Contractor is responsible for maintaining the configuration and protection of the units.



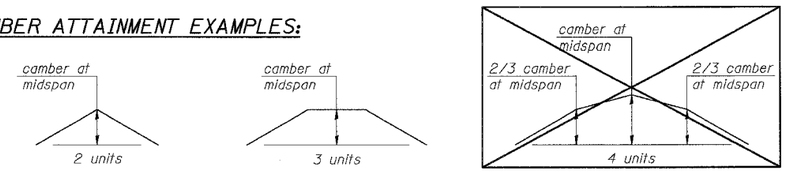
TRUSS TYPES II-A & III-A

SPLICING FLANGES
ASTM B221, Alloy 6061-T6
or ASTM B209, Alloy 6061-T651
*To fit O.D. of Chord with maximum gap of 1/16".



CAMBER DIAGRAM
Camber curve shown is theoretical. Actual camber attained by slope changes at splices between units.

CAMBER ATTAINMENT EXAMPLES:



Camber shown is for fabrication only, measured with truss fully supported. (No-load condition)

NUMBER	REVISION	DATE

OS4-A-2 1-7-05

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SHT. S-3 OF 27

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING
WILL COUNTY

OVERHEAD SIGN STRUCTURES
ALUMINUM TRUSS DETAILS
FOR TRUSS TYPES I-A, II-A AND III-A

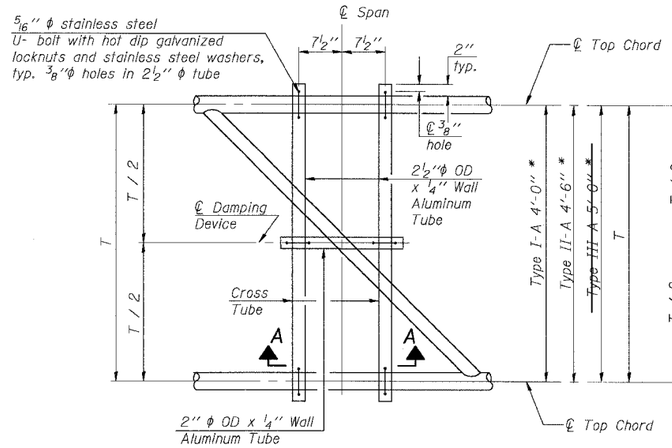
SCALE:
DRAWN BY MDB
DATE 05/19/06
CHECKED BY MJK

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

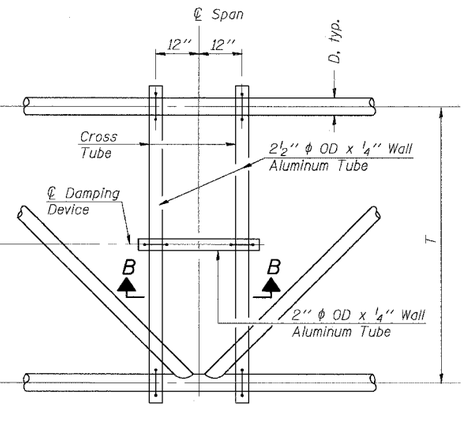
CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	30
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

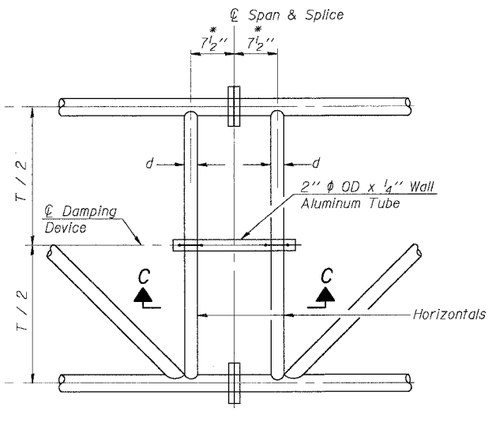
* Center of horizontal to center of splice dimension may vary. Verify before drilling holes in mounting tube.



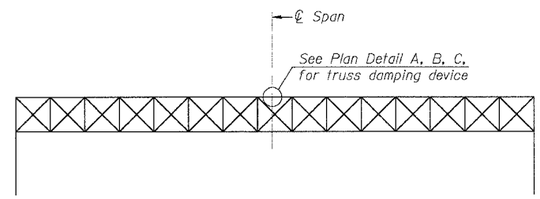
PLAN DETAIL "A"
℄ Span between Panel Points



PLAN DETAIL "B"
℄ Span at Panel Point



PLAN DETAIL "C"
℄ Span at ℄ Chord Splice

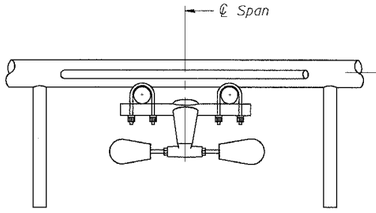


ELEVATION
Aluminum Overhead Sign Truss

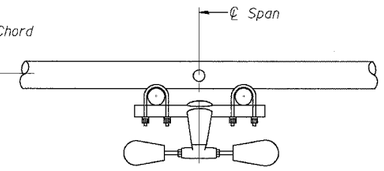
NOTES

Damper: One damper per truss. (31 lbs. Stockbridge-Type Aluminum) Cost included in Overhead Sign Structure...

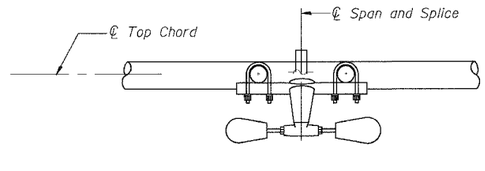
Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6. Cost included in Overhead Sign Structure...



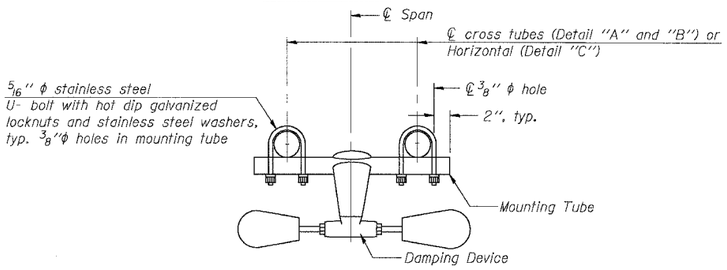
SECTION A-A



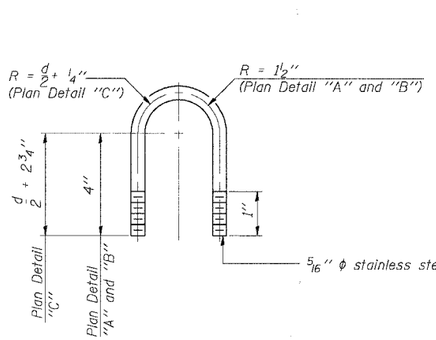
SECTION B-B



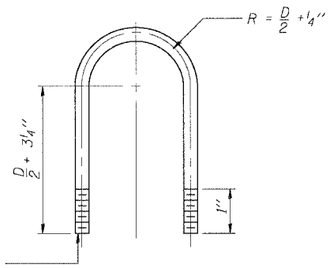
SECTION C-C



TRUSS DAMPING DEVICE CONNECTION DETAIL
(Typical)



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
(Typical)



TOP CHORD TO CROSS TUBE U-BOLT DETAIL
(Typical - Detail "A" and "B")

OS-A-D 1-7-05

SHT. S-4 OF 27

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING
WILL COUNTY

OVERHEAD SIGN STRUCTURES DAMPING DEVICE

SCALE: DRAWN BY MDB
DATE 05/19/06 CHECKED BY MJK

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

PLOT DATE = #DATE#
FILE NAME = #FILE#
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CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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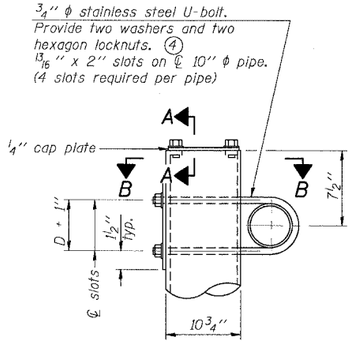
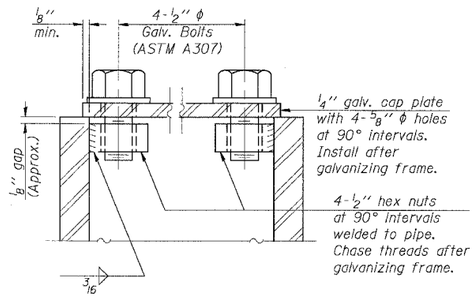
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

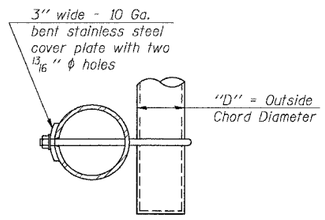


DETAIL A

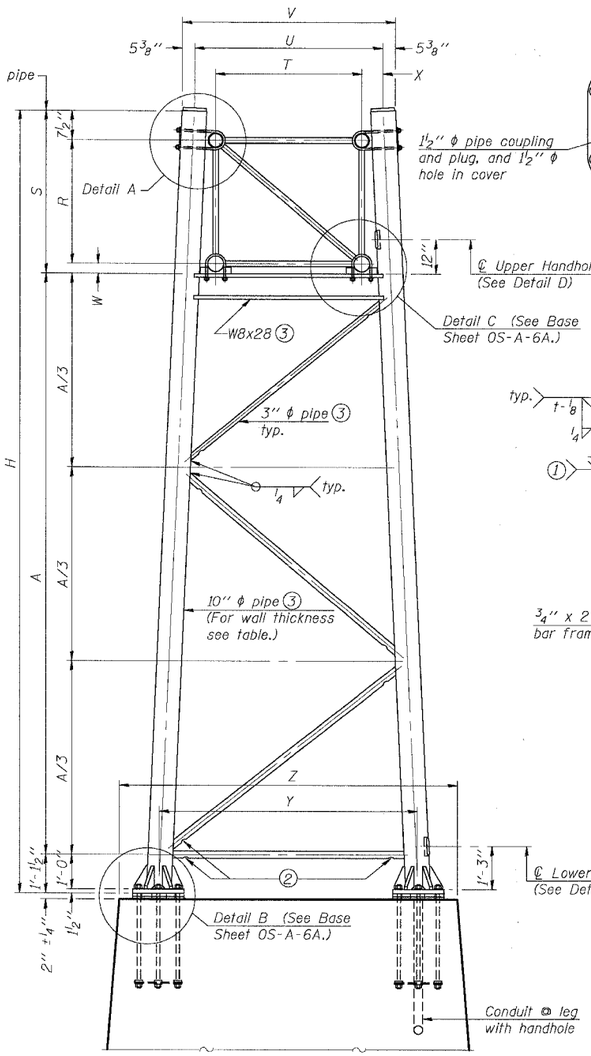


SECTION A-A

As an alternate to bolts, may use galvanized drive-fit caps installed after galvanizing frame.

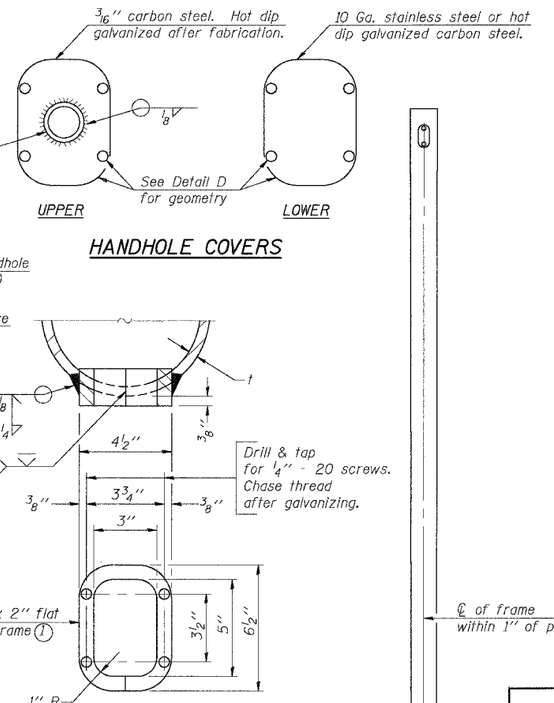


SECTION B-B



For Foundation Details, see base sheet OS-F3 (Spread Footing) or OS4-F3 (Drilled Shaft).

SIDE ELEVATION



HANDHOLE COVERS

Provide 6½" x 4½" cover.
Provide 4-5/16" ϕ holes in cover for 1/4"-20 round head hot dip galvanized or stainless steel machine screws.
(See cover details)

DETAIL D

END ELEVATION

Support Design Loads: See Base Sheet OS-A-1 for design and loading criteria.
Load combinations checked include deadload plus:
a) 100% wind normal to sign, 20% parallel to sign
b) 60% wind normal to sign, 30% parallel to sign

1. In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 microinches or less.
2. Galvanizing vent holes of adequate size shall be provided on underside at each end of bracing pipes. Alternately, holes may be provided in wall of pipe column. All vent holes shall be drilled and de-burred, typ.
3. Steel pipe, plate, carbon steel handhole covers and rolled sections shall be hot dip galvanized after fabrication. Painting is not permitted. See Base Sheet OS-A-1.
4. See General Notes for fasteners.
5. Dimensions shown are based on selection criteria in the Sign Structures Manual. Nonstandard applications must have dimensions verified or amended as appropriate.

Structure Number	Station	Support		Truss Type	Pipe Wall Thickness	H	A
		Left	Right				
IS099I055R249.90	189+70	X		II-A	0.365	23'-6"	16'-1 1/4"
IS099I055R249.90	189+70		X	II-A	0.365	26'-11"	19'-6 1/4"
IS099I055L250.67	229+76	X		I-A	0.279	24'-5"	17'-10"
IS099I055L250.67	229+76		X	I-A	0.279	26'-7"	20'-0"
IS099I055R251.02	248+22	X		I-A	0.279	25'-11 1/2"	19'-4 1/2"
IS099I055R251.02	248+22		X	I-A	0.279	28'-8 1/2"	22'-1 1/2"
IS099I055L251.17	256+26	X		I-A	0.279	24'-3 1/2"	17'-8 1/2"
IS099I055L251.17	256+26		X	I-A	0.279	26'-9 1/2"	20'-2 1/2"
IS099I055R252.64	333+75	X		I-A	0.279	24'-10"	18'-3"
IS099I055R252.64	333+75		X	I-A	0.279	30'-7 1/2"	24'-0 1/2"
IS099I055L253.03	354+55	X		I-A	0.279	24'-11 1/2"	18'-4 1/2"
IS099I055L253.03	354+55		X	I-A	0.279	28'-9"	22'-2"

10" ϕ PIPE TRUSS SUPPORT FRAME

Truss Type	Dimensions								
	R	S	T	U	V	W	X	Y	Z
I-A	4'-6"	5'-5 1/2"	4'-0"	5'-6"	6'-4 3/4"	4"	9"	8'-3"	10'-9"
II-A (5)	5'-3"	6'-3 1/4"	4'-6"	6'-1"	6'-11 3/4"	4 3/4"	9 1/2"	8'-3"	10'-9"

NUMBER	REVISION	DATE

SHT. S-5 OF 27

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING
WILL COUNTY

OVERHEAD SIGN STRUCTURES SUPPORT FRAME FOR ALUMINUM TRUSS

SCALE: DRAWN BY MDB
DATE 05/19/06 CHECKED BY MJK

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

OS-A-6 1-7-05

PLOT DATE = $DATE$
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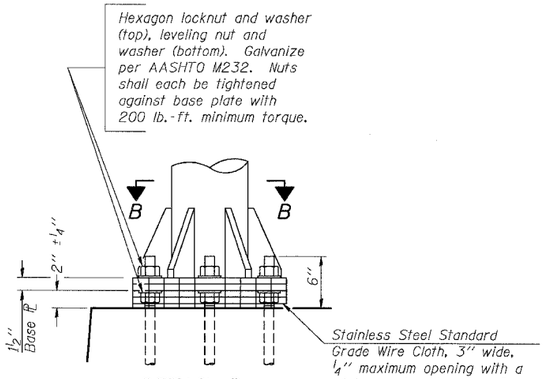
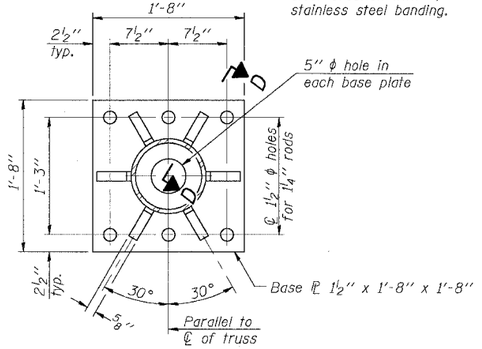
CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	32
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

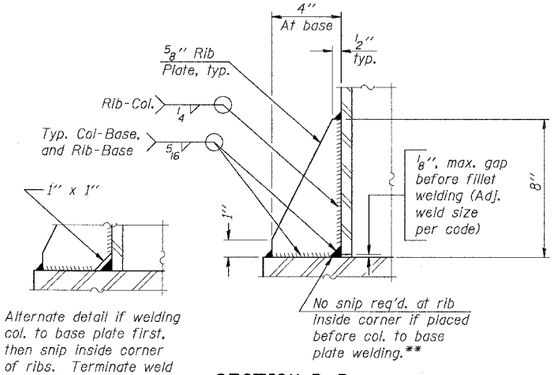


DETAIL B

Ribs shall be cut to fit slope of pipe.

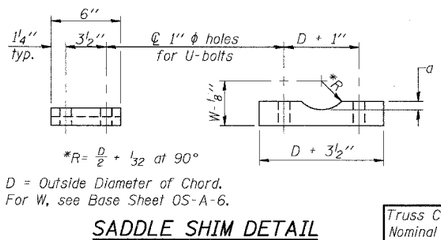


SECTION B-B



** Alternate detail if welding col. to base plate first, then snip inside corner of ribs. Terminate weld on rib 1/4" from snip.

SECTION D-D



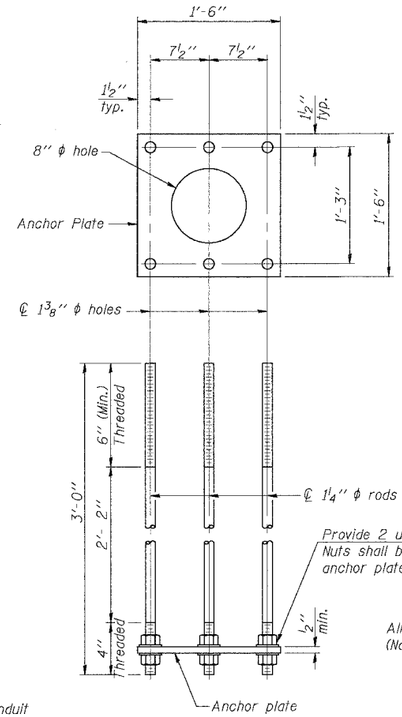
*R = D/2 + 1/32 at 90°

D = Outside Diameter of Chord. For W, see Base Sheet OS-A-6.

SADDLE SHIM DETAIL

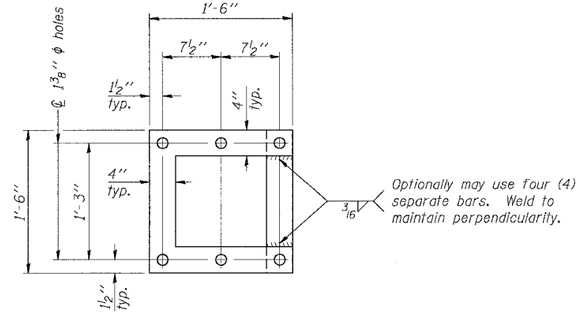
ASTM B26 Alloy 356-F
or
ASTM B209 Alloy 6061-T651
(4 required per sign truss)

Truss Chord Nominal Dia.	a
5"	3/4"
5 1/2"	13/16"
~~6"~~	~~7/8"~~
6 1/2"	15/16"
~~7"~~	~~1"~~

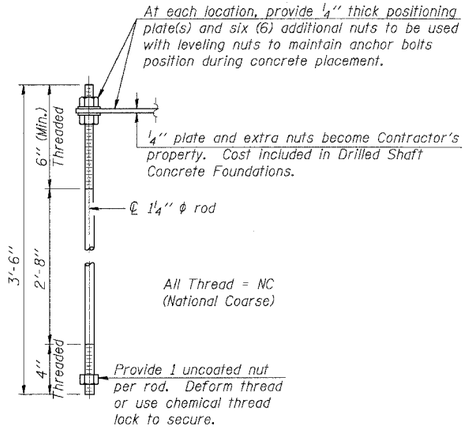


ANCHOR ROD DETAIL

Spread Footing Foundation



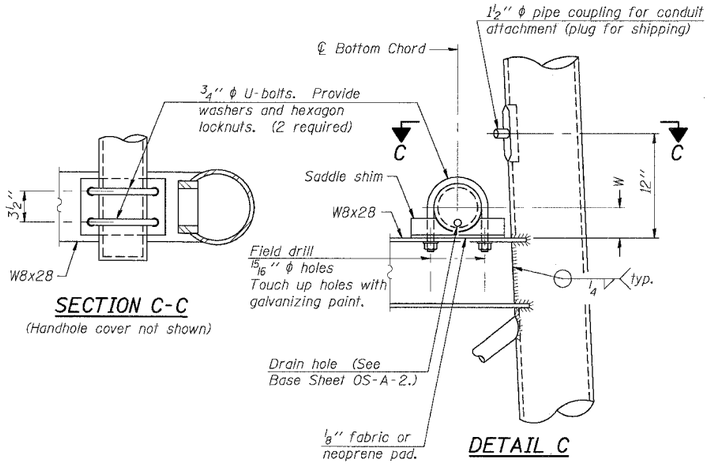
POSITIONING PLATE(S)



ANCHOR ROD DETAIL

Drilled Shaft Foundation

Anchor rods shall conform to AASHTO M314 Grade 36 or 50 and meet Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. Galvanize upper 12" per AASHTO M232. No welding shall be permitted on rods.



SECTION C-C

(Handhole cover not shown)

DETAIL C

10" ϕ PIPE SUPPORT FRAME DETAILS

NUMBER	REVISION	DATE

SHT. S-6 OF 27

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING
WILL COUNTY

OVERHEAD SIGN STRUCTURES SUPPORT FRAME DETAILS ALUMINUM TRUSS

SCALE: DRAWN BY MDB
DATE 05/19/06 CHECKED BY MJK

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

OS-A-6A 1-7-05

PLOT DATE = $DATE$
FILE NAME = $FILEL$
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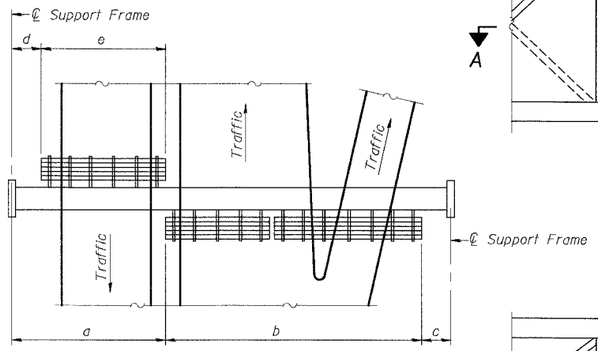
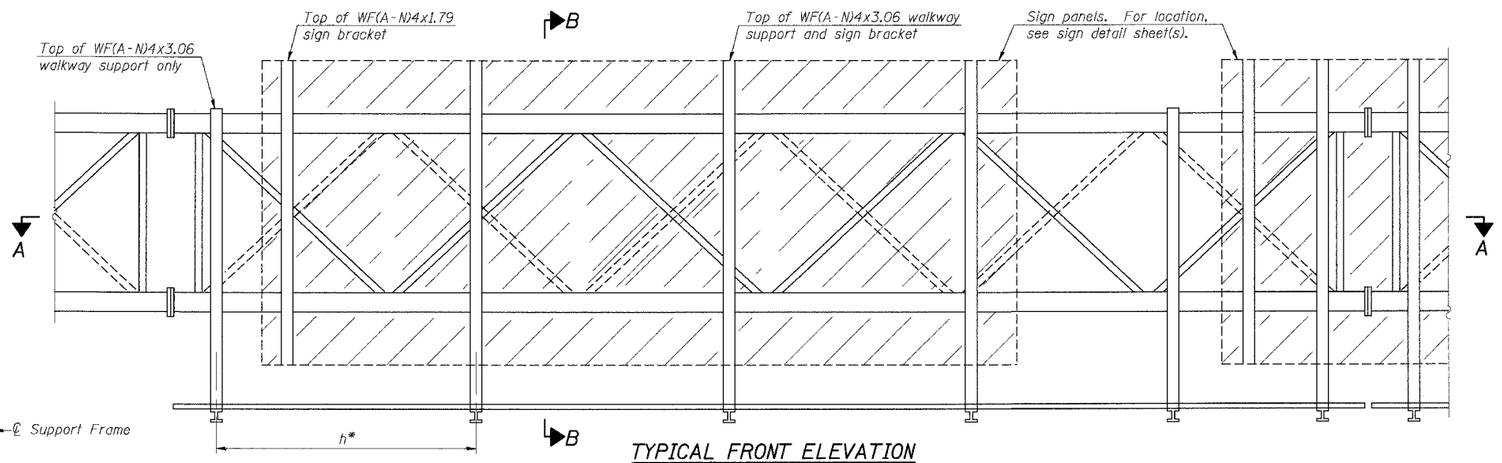
CONTRACT NO. 60A70

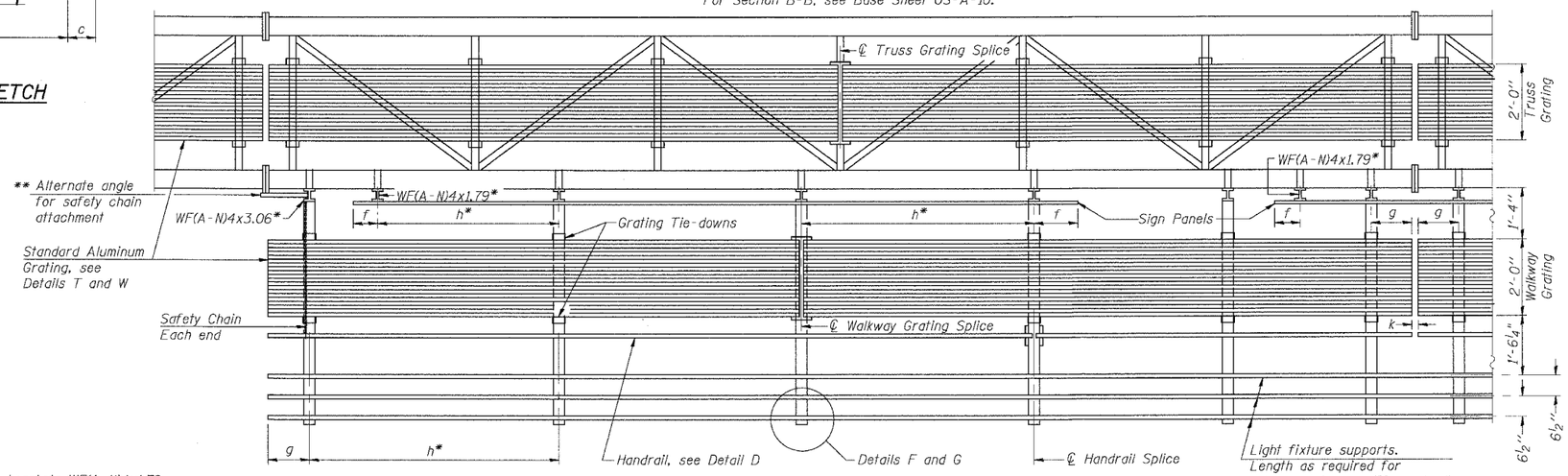
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	33
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLAN
WALKWAY AND HANDRAIL SKETCH
(Road plan beneath truss varies)



TYPICAL FRONT ELEVATION
With lights and handrail omitted for clarity.
For Section B-B, see Base Sheet OS-A-10.



Walkway and Truss Grating width dimensions are nominal and may vary ±½" based on available standard widths.

BRACKET TABLE

WF(A-N)4x1.79 or WF(A-N)4x3.06
ASTM B308, Alloy 6061-T6

Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
~~0'-0"~~	~~8'-0"~~	~~2~~
8'-0"	14'-0"	3
14'-0"	20'-0"	4
~~20'-0"~~	~~26'-0"~~	~~5~~
~~26'-0"~~	~~32'-0"~~	~~6~~

Notes:

* Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:

f = 12" maximum, 4" minimum (End of sign to ℄ of nearest bracket)
g = 12" maximum, 4" minimum (End of walkway grating to ℄ of nearest support bracket)
h = 6'-0" maximum (℄ to ℄ sign and/or walkway support brackets, WF(A-N)4x1.79 or WF(A-N)4x3.06)
k = 2" maximum gap between adjacent walkway grating sections and handrail ends

** If walkway bracket at safety chain location is behind sign, add angle to bracket, see Alternate Safety Chain Attachment on Base Sheet OS-A-11.

For Details T and W, Section B-B and Grating Splice Details, see Base Sheet OS-A-10.
For Details D, F, G and P and Handrail Splice Details, see Base Sheet OS-A-11.

NUMBER	REVISION	DATE

SECTION A-A

Handrail and walkway shall span a minimum of three brackets between splices and/or gap joints.
Place all sign and walkway brackets as close to panel points as practical.
Grating, handrail and light support splices placed as needed.

Structure Number	Station	a	b	c	d	e	Walkway Grating and Handrail Lengths
IS099I055R249.90	189+70	45'-0½"	46'-1"	12'-10½"	---	---	46'-1"
IS099I055L250.67	229+76	17'-4"	46'-10"	12'-10"	---	---	46'-10"
IS099I055R251.02	248+22	19'-7"	40'-10"	14'-7"	---	---	40'-10"
IS099I055L251.17	256+26	31'-4"	37'-2"	13'-6"	---	---	37'-2"
IS099I055R252.64	333+75	19'-10"	38'-9"	32'-5"	---	---	38'-9"
IS099I055L253.03	354+55	18'-9"	38'-8"	31'-7"	---	---	38'-8"

Truss grating to facilitate inspection shall run full length (center to center of support frames) ±12" on overhead trusses. Cost of truss grating is included in "Overhead Sign Structure".

OS-A-9 1-7-05

SHT. S-7 OF 27

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING
WILL COUNTY

OVERHEAD SIGN STRUCTURES ALUMINUM WALKWAY DETAILS

SCALE: DRAWN BY MDB
DATE 05/19/06 CHECKED BY MJK

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

PLOT DATE = $DATE$
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USER NAME = $USER$

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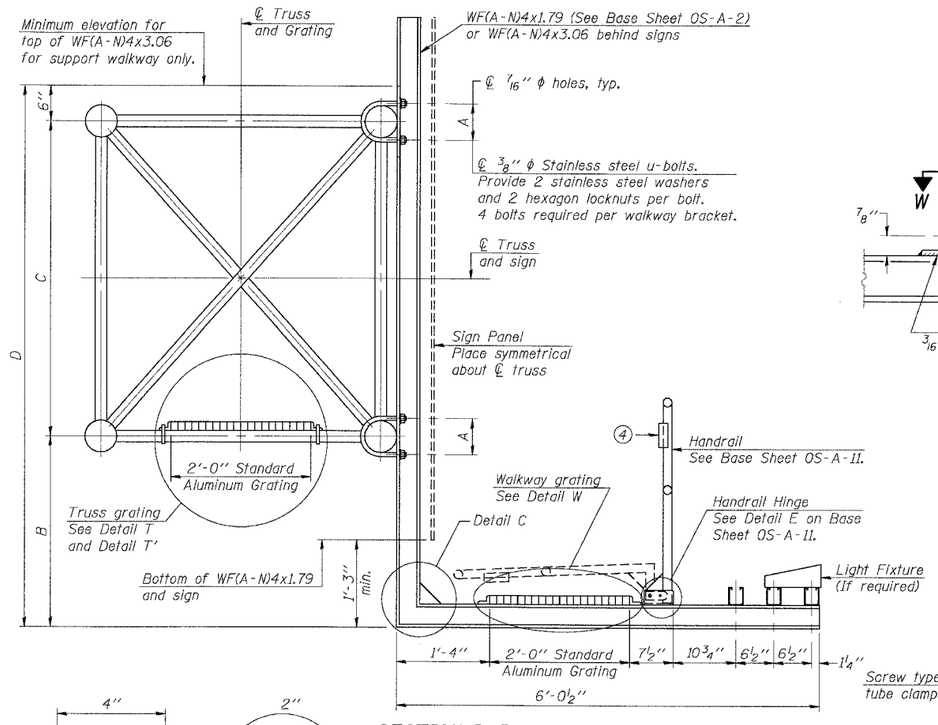
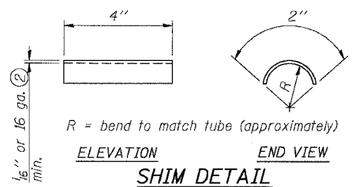
CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	34
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



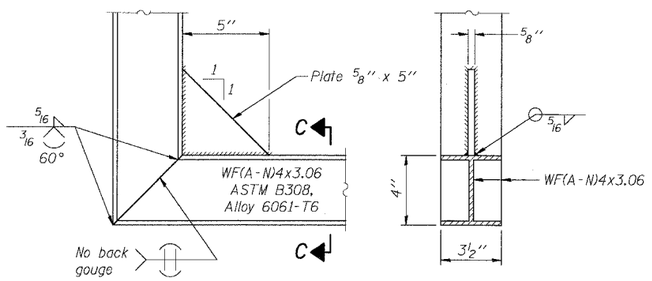
SECTION B-B



R = bend to match tube (approximately)

ELEVATION END VIEW

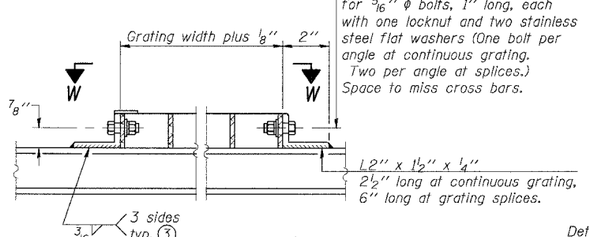
SHIM DETAIL



DETAIL C

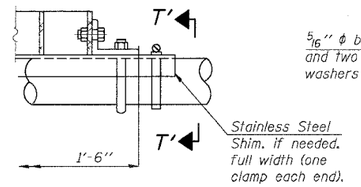
(See Detail P, Base Sheet OS-A-11.)

SECTION C-C



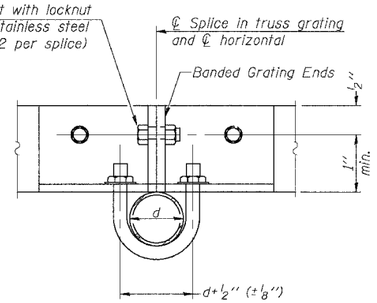
DETAIL W

(Walkway grating)

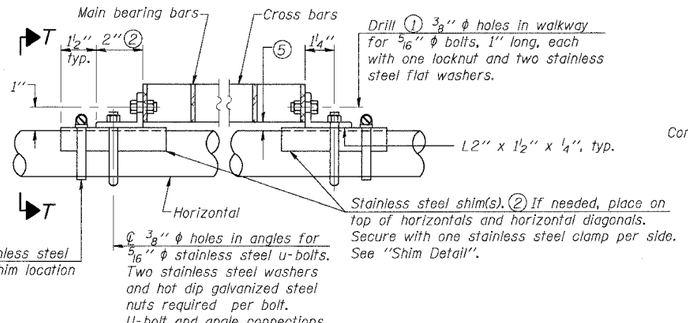


DETAIL T'

(Truss grating splice)
Details not shown same as Detail T.
Alternate materials may be used subject to the Engineer's review and approval.

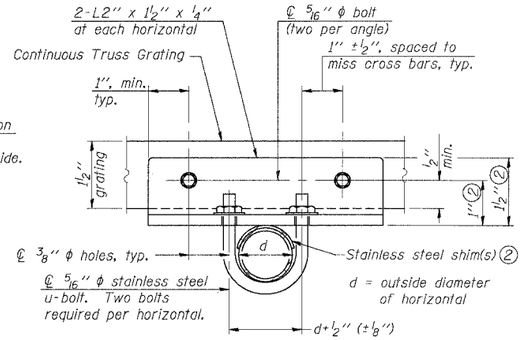


SECTION T'-T'

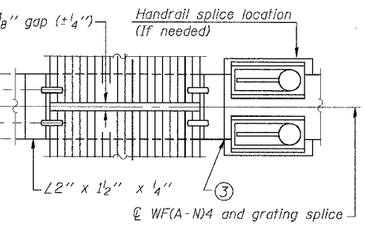


DETAIL T

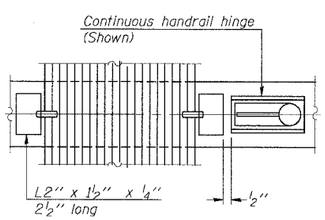
(Continuous Truss grating)



SECTION T-T



(AT WALKWAY GRATING SPLICE)



(CONTINUOUS WALKWAY GRATING)

SECTION W-W

SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars shall be 3/16" x 1½" on 1 3/16" centers and conform to ASTM B221 Alloy 6061-T6.

Cross bars shall be 3/16" x 1½" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

Aluminum Grating with modified "I" sections for main bearing bars shall meet the following requirements:

Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.^{3} per bar, a depth of 1½", spaced on 1 3/16" centers.

Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

Structure Number	Station	A	B	C	D
IS0991055R249.90	189+70	7"	4'-10½"	5'-3"	10'-7½"
IS0991055L250.67	229+76	5½"	5'-3"	4'-6"	10'-3"
IS0991055R251.02	248+22	5½"	6'-3"	4'-6"	11'-3"
IS0991055L251.17	256+26	5½"	5'-3"	4'-6"	10'-3"
IS0991055R252.64	333+75	6"	5'-3"	4'-6"	10'-3"
IS0991055L253.03	354+55	5½"	5'-3"	4'-6"	10'-3"

NUMBER	REVISION	DATE

OS-A-10 1-7-05

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PLOT SCALE = $SCALE$
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SHT. S-8 OF 27

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING
WILL COUNTY

OVERHEAD SIGN STRUCTURES ALUMINUM WALKWAY DETAILS

SCALE: DRAWN BY MDB
DATE 05/19/06 CHECKED BY MJK

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

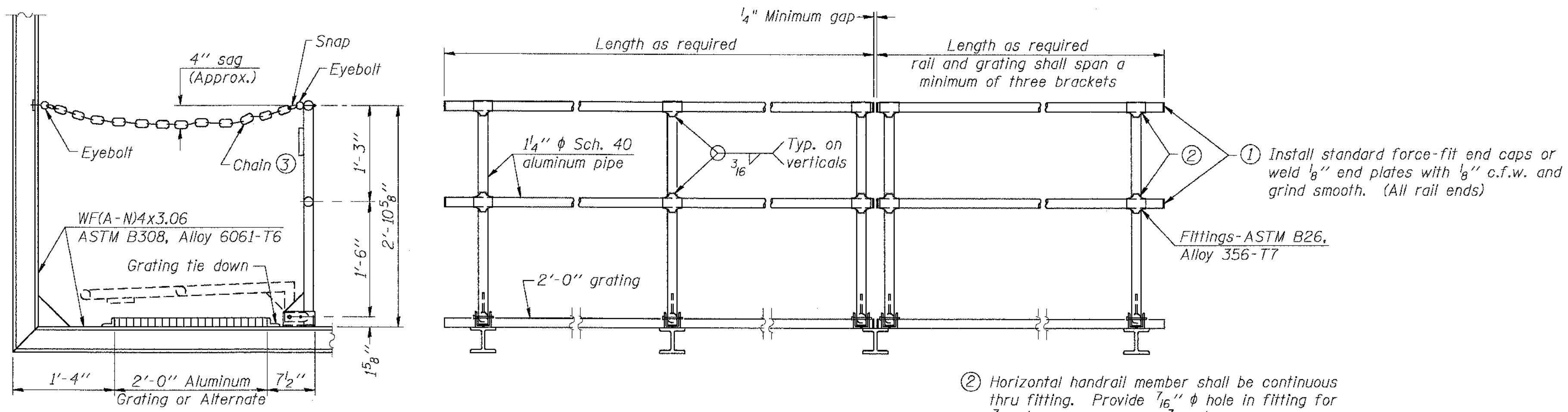
(1) Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.

(2) Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.

(3) If Handrail Joint present, weld angle to WF(A-N)4 and ¼" extension bars. (See Base Sheet OS-A-11.)

(4) PL ⅛" x ½" x 2" welded to handrail posts to protect locations that contact grating.

(5) Tube to grating gap may vary from 0 to ½", max. to align walkway, allow for camber, etc.



SIDE ELEVATION

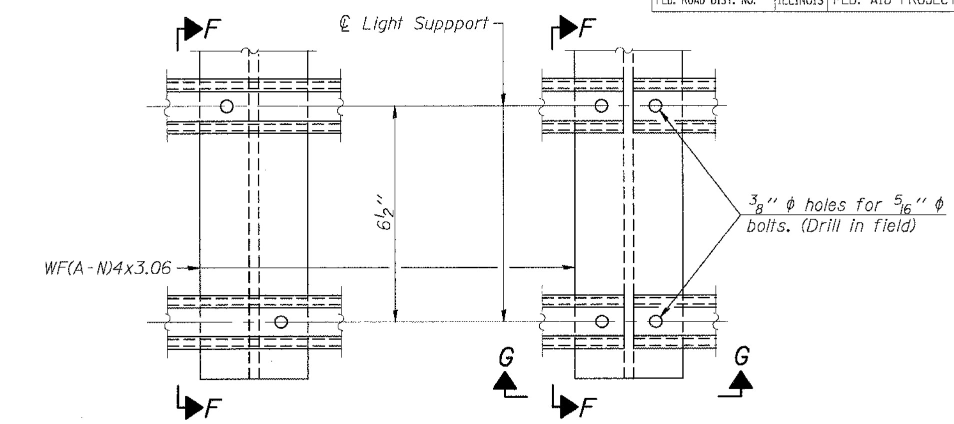
(Showing safety chain w/o sign)

HANDRAIL DETAILS

FRONT ELEVATION

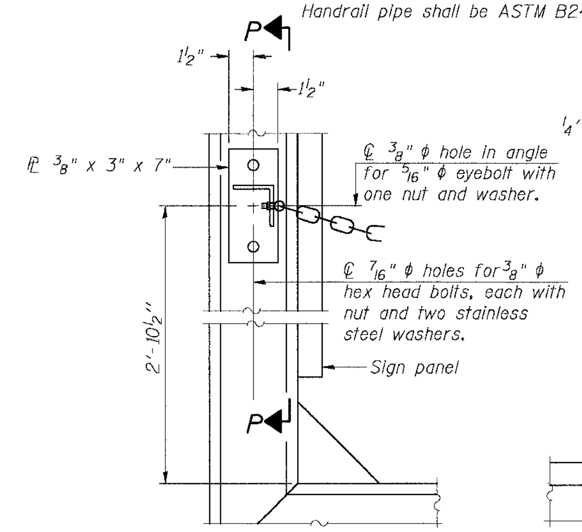
Handrail pipe shall be ASTM B241, Alloy 6063-T6 or Alloy 6061-T6.

② Horizontal handrail member shall be continuous thru fitting. Provide 7/16" ϕ hole in fitting for ⅜" ϕ bolt. Field drill 7/16" ϕ hole in horizontal rail member. Provide locknut and two stainless steel washers for bolt. (Use 5/16" eyebolts in 7/16" ϕ holes on top rail at ends only.)



DETAIL F

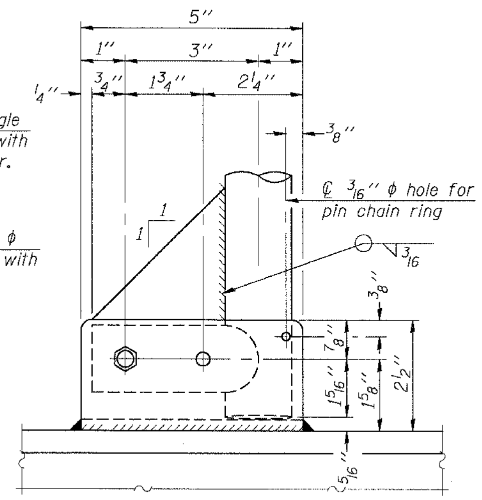
DETAIL G



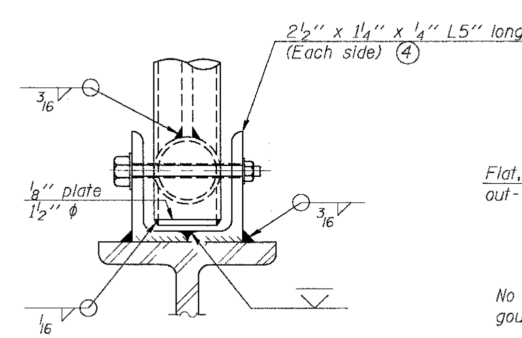
ALTERNATE SAFETY CHAIN ATTACHMENT

(With Sign Present)

Items not shown same as "Side Elevation" of "Handrail Details"

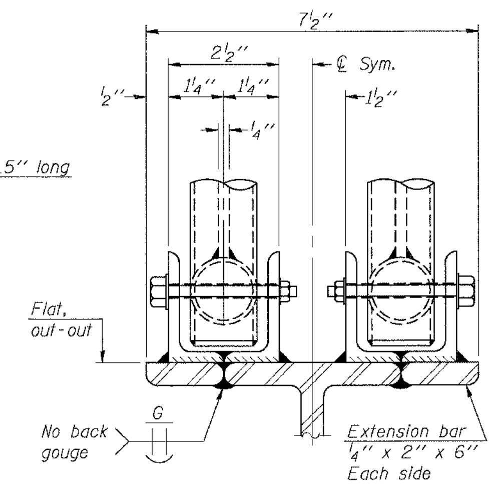


SIDE ELEVATION

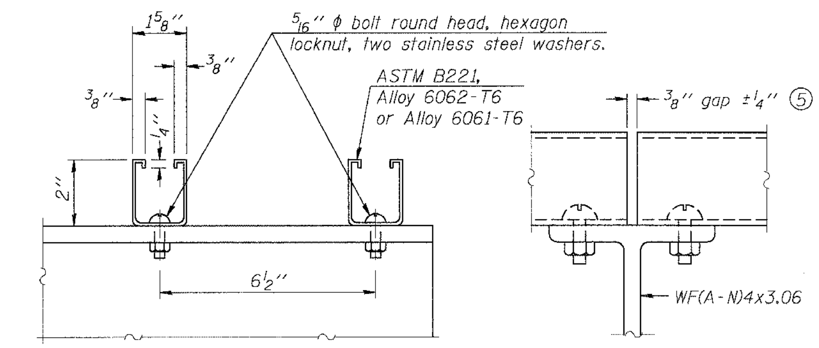


FRONT ELEVATION

See "Elevation" at right for dimensions.



ELEVATION AT HANDRAIL JOINT ④

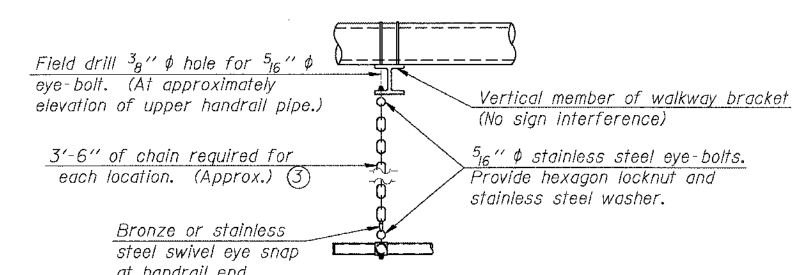


SECTION F-F

SECTION G-G

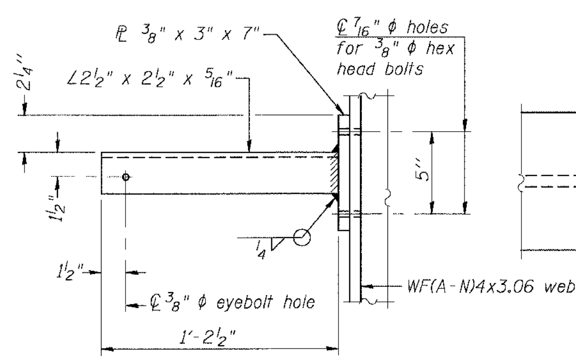
LIGHTING FIXTURE MOUNTS (IF REQUIRED)

⑤ Field cut ends of light support channels shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.

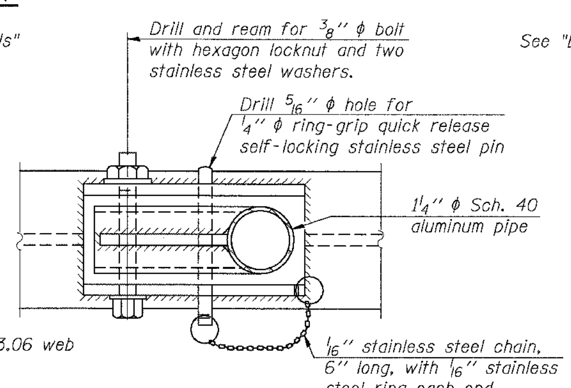


SAFETY CHAIN

One required for each end of each walkway.

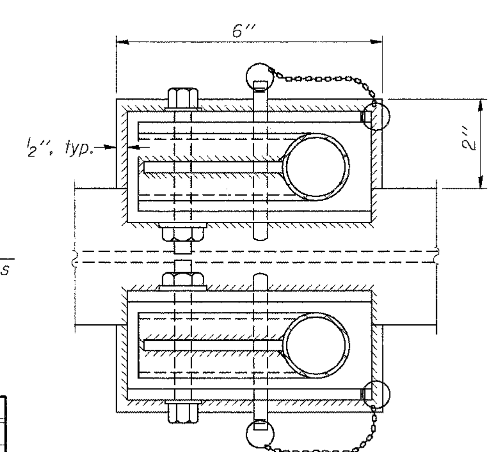


SECTION P-P



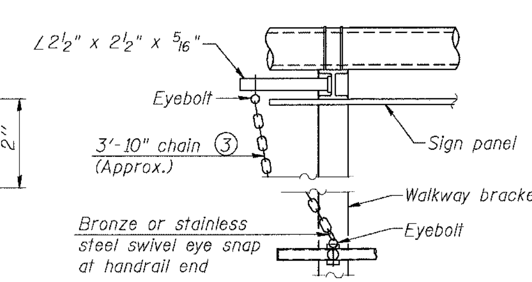
PLAN

DETAIL E HANDRAIL HINGE



PLAN AT HANDRAIL JOINT

Details not shown same as "PLAN"



ALTERNATE SAFETY CHAIN ATTACHMENT

Details not shown similar to "Safety Chain" Details
(Walkway omitted for clarity)

③ 3/16" galvanized steel chain, approximately 12 links per foot. Chain to be hot dip galvanized after manufacture and suitable for prolonged exterior exposure. Alternate materials may be substituted with the Engineer's approval.

④ Extrusions may be used in lieu of the details shown, with approval of the Engineer.

NUMBER	REVISION	DATE

OS-A-11 1-7-05

SHT. S-9 OF 27

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING
WILL COUNTY

OVERHEAD SIGN STRUCTURES ALUMINUM HANDRAIL DETAILS

SCALE: DRAWN BY MDB
DATE 05/19/06 CHECKED BY MJK

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

PLOT DATE = $DATE$
FILE NAME = $FILE$
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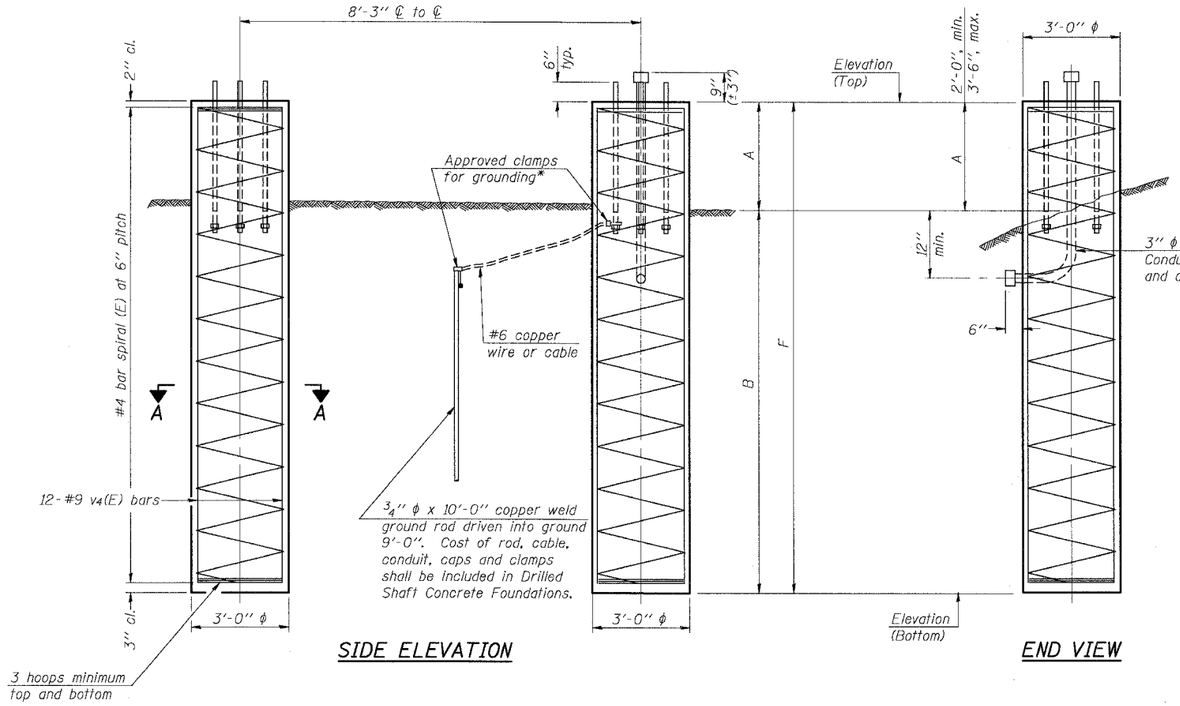
CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	36
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

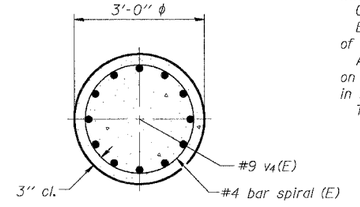
For anchor rod size and placement, see Support Frame Detail Sheet.

** Anchor rod shall be ground or filed to bright metal at clamp and cable connection location.*



SIDE ELEVATION

END VIEW



SECTION A-A

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
v4(E)	24	#9	F less 5"	——
#4 bar spiral (E) - see Side Elevation				

NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance.

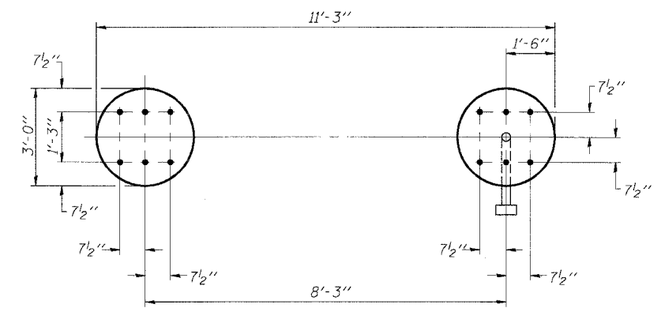
Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.

The cost of all reinforcing steel shall be included in the cost of Drilled Shaft Foundations.



PLAN

Structure Number	Station	Left Foundation					Right Foundation					Class SI Concrete (Cu. Yds.)	Depth of Rock Exc. (Ft.)
		Elevation Top	Elevation Bottom	A	B	F	Elevation Top	Elevation Bottom	A	B	F		
IS099I055R249.90	189+70						572.86	548.86	3'-6"	20'-6"	24'-0"	12.6	6'-0½"
IS099I055L250.67	229+76						591.10	571.85	2'-9"	16'-6"	19'-3"	10.1	1'-3"
IS099I055R251.02	248+22						592.67	571.43	4'-9" *	16'-6"	21'-3"	11.1	---
IS099I055L251.17	256+26						588.28	568.16	2'-1½"**	18'-0"	20'-1½"	10.5	---
IS099I055R252.64	333+75						580.53	561.28	2'-9"	16'-6"	19'-3"	10.1	10'-1½"
IS099I055L253.03	354+55						578.77	559.52	2'-9"	16'-6"	19'-3"	10.1	9'-3½"

* At completion of future contract, by others, A = 3'-3"
** At completion of future contract, by others, A = 3'-6"

NUMBER	REVISION	DATE

OS4-F3 1-7-05

DETAILS FOR 10" ϕ SUPPORT FRAME TYPE I-A or II-A TRUSS

SHT. S-10 OF 27

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING
WILL COUNTY

OVERHEAD SIGN STRUCTURES DRILLED SHAFT DETAILS

SCALE: DRAWN BY MDB
DATE 05/19/06 CHECKED BY MJK

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

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CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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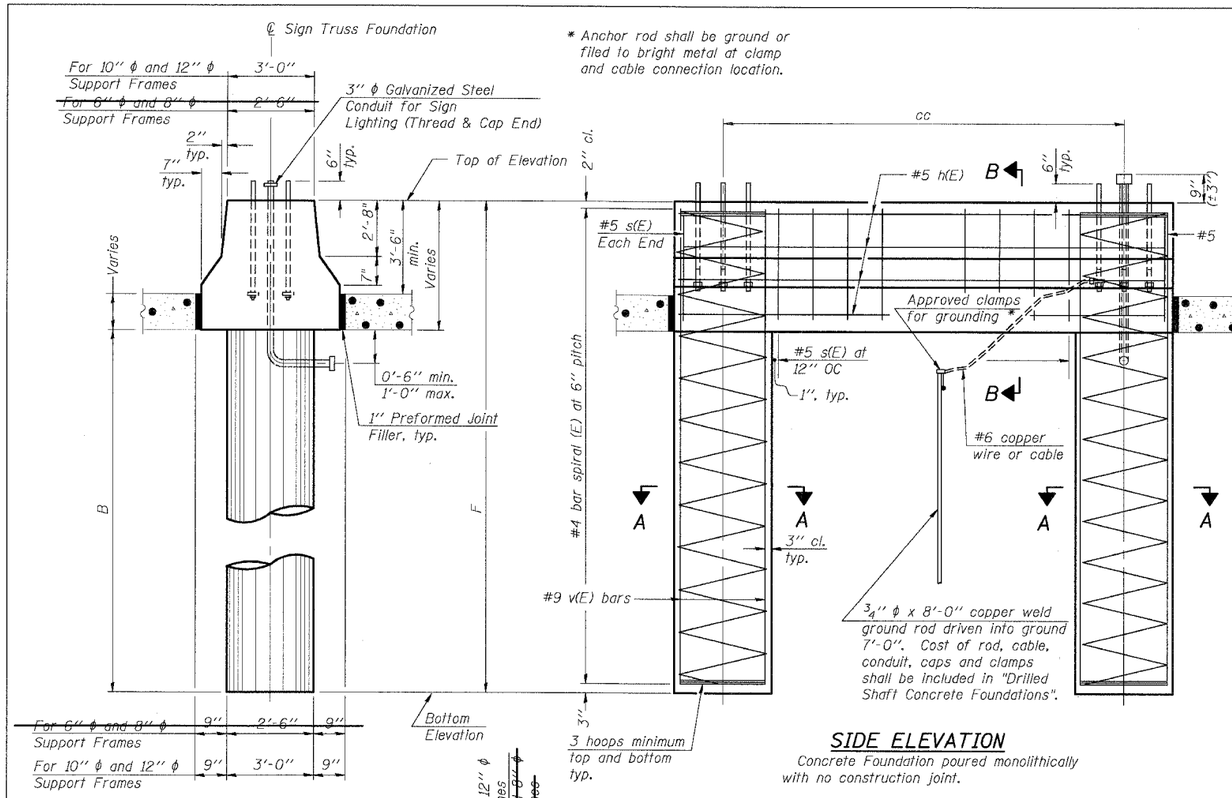
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



NOTES:

The foundation dimensions shown are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance.

Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in Drilled Shaft Concrete Foundation.

The cost of all reinforcing steel shall be included in the cost of Drilled Shaft Foundations.

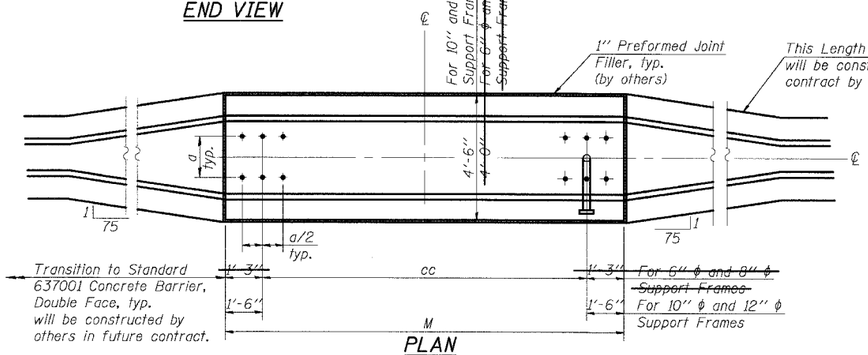
The concrete and reinforcing steel for the barrier wall section shall be measured and paid for as Drilled Shaft Foundations.

BAR LIST - EACH FOUNDATION

Bar	Number	Size	Length	Shape
h(E)	Varies	#5	M less 4"	——
s(E)	8	#5	Varies	□
~~v(E)~~	~~16~~	~~#9~~	~~F less 0'-5"~~	——
v(E)	24	#9	F less 0'-5"	——
#4(E) bar spiral _ see Side Elevation				

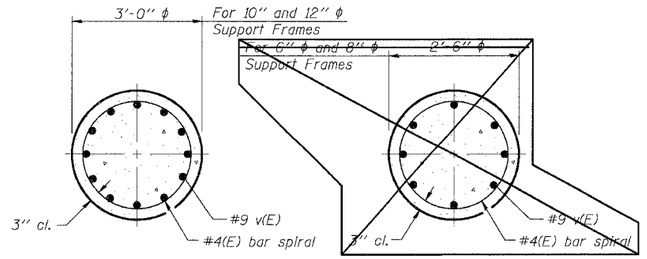
~~6" ϕ and 8" ϕ Support Frame~~

10" ϕ and 12" ϕ Support Frame



Structure Number	Station	Left Foundation				Right Foundation				Class SI Concrete (Cu. Yds.)	Depth of Rock Exc. (Ft.)
		Elevation Top	Elevation Bottom	B	F	Elevation Top	Elevation Bottom	B	F		
IS099I055R249.90	189+70	576.28	549.30	20'-6"	26.98					20.8	1' 2½"
IS099I055L250.67	229+76	593.26	570.00	16'-6"	23.26					19.2	2'-3½"
IS099I055R251.02	248+22	595.45	571.48	16'-6"	23.97					20.5	---
IS099I055L251.17	256+26	590.76	567.01	16'-6"	23.75					20.1	---
IS099I055R252.64	333+75	586.30	565.03	16'-6"	21.27					15.6	3'-7"
IS099I055L253.03	354+55	582.58	559.12	16'-6"	23.46					19.6	10'-3½"

Pipe Support Frames	cc	M	a	a/2
~~6"ϕ~~	~~7'-0"~~	~~9'-6"~~	~~0' 11"~~	~~5½"~~
~~8"ϕ~~	~~7'-6"~~	~~10'-0"~~	~~1' 1½"~~	~~6¾"~~
10"ϕ	8'-3"	10'-9"	1'-3"	7½"
~~12"ϕ~~	~~9'-0"~~	~~12'-0"~~	~~1' 6"~~	~~9"~~



SHT. S-11 OF 27

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING
WILL COUNTY

OVERHEAD SIGN STRUCTURES DRILLED SHAFT DETAILS MEDIAN SUPPORT

SCALE:
DRAWN BY MDB
DATE 05/19/06
CHECKED BY MJK

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

OS4-MED, SPECIAL 1-7-05

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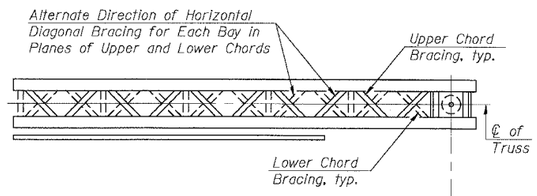
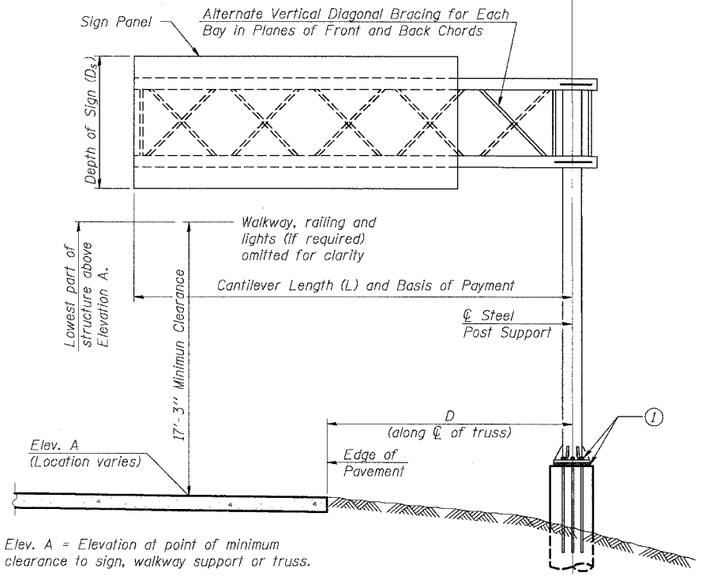
CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	38
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TYPICAL PLAN

(Walkway not shown)



Elev. A = Elevation at point of minimum clearance to sign, walkway support or truss.

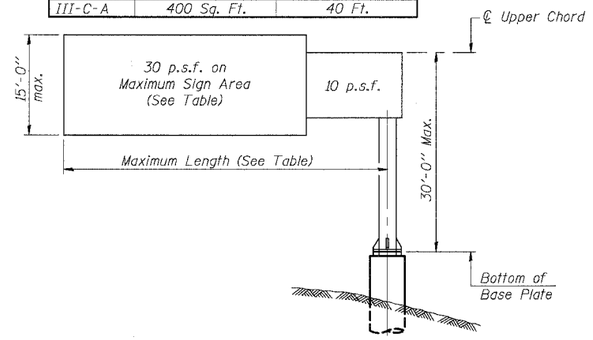
TYPICAL ELEVATION

Looking in Direction of Traffic

Sign support structures may be subject to damaging vibrations and oscillations when sign panels are not in place during erection or maintenance of the structure. To avoid these vibrations and oscillations, consideration should be given to attaching temporary blank sign panels to the structure.

Structure Number	Station	Design Truss Type	Cantilever Length (L)	Elev. A	Dim. D	D_s	Total Sign Area
IC099I055R251.56	277+45	III-C-A	40'-0"	595.86	14'-6"	12'-6"	312.5 sq. ft.

Truss Type	Maximum Sign Area	Maximum Length
~~I C A~~	~~170 Sq. Ft.~~	~~25 Ft.~~
~~II C A~~	~~340 Sq. Ft.~~	~~30 Ft.~~
III-C-A	400 Sq. Ft.	40 Ft.



DESIGN WIND LOADING DIAGRAM

Parameters shown are basis for I.D.O.T. Standards Installations not within dimensional limits shown require special analysis for all components.

(1) After adjustments to level truss and insure adequate vertical clearance, all top and leveling nuts shall be tightened against the base plate with a minimum torque of 200 lb.-ft. Stainless steel mesh shall then be placed around the perimeter of the base plate. Secure to base plate with stainless steel banding.

Note:
Trusses shall be shipped individually with adequate provision to prevent detrimental motion during transport. This may require ropes between horizontals and diagonals or energy dissipating (elastic) ties to the vehicle. The contractor is responsible for maintaining the configuration and protection of the trusses.

GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES:
Field Units
f'c = 3,500 p.s.i.
fy = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specificiations.

MATERIALS: Aluminum Alloys as shown throughout plans. All Structural Steel Pipe shall be ASTM A53 Grade B with a minimum yield of 35,000 p.s.i., or A500 Grade B or C with a minimum yield of 46,000 p.s.i. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.
All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36, Gr. 50 or Gr. 50W*. Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.
The steel pipe and stiffening ribs at the base plate for the column shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS FOR ALUMINUM TRUSSES: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7, or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, is required under both head and nut or under both nuts where threaded studs are used. High strength bolt installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASHTO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted.

ANCHOR RODS: Shall conform to AASHTO M314 Gr. 55 with a minimum Charpy V-Notch (CVN) energy of 15 lb.-ft. at 10° F.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Bridge Seat Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
~~OVERHEAD SIGN STRUCTURE CANTILEVER TYPE I C A~~	~~Foot~~	
~~OVERHEAD SIGN STRUCTURE CANTILEVER TYPE II C A~~	~~Foot~~	
OVERHEAD SIGN STRUCTURE CANTILEVER TYPE III-C-A	Foot	40'-0"
OVERHEAD SIGN STRUCTURE WALKWAY, TYPE A	Foot	25'-5"
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	12.6
ROCK EXCAVATION	Cu. Yds.	8.3

NUMBER	REVISION	DATE

OSC-A-1 1-7-05

SHT. S-12 OF 27

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING
WILL COUNTY

CANTILEVER SIGN STRUCTURES PLAN & ELEVATION ALUMINUM TRUSS & STEEL POST

SCALE: DRAWN BY MDB
DATE 05/19/06 CHECKED BY MJK

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

PLOT DATE = $DATE$
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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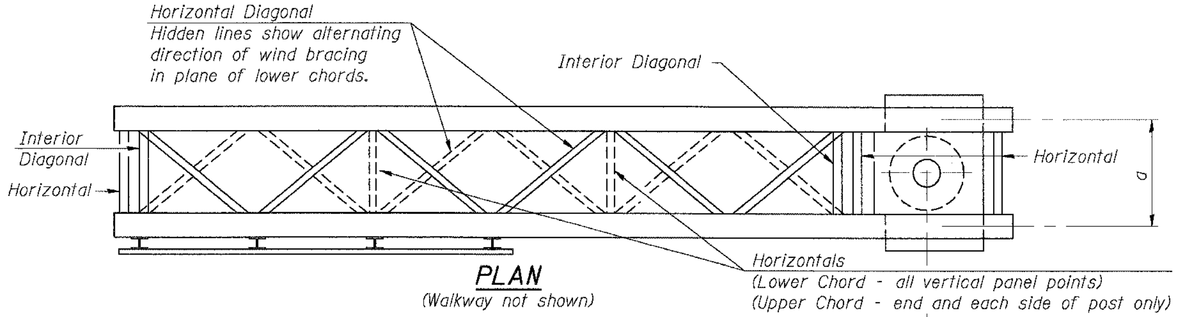
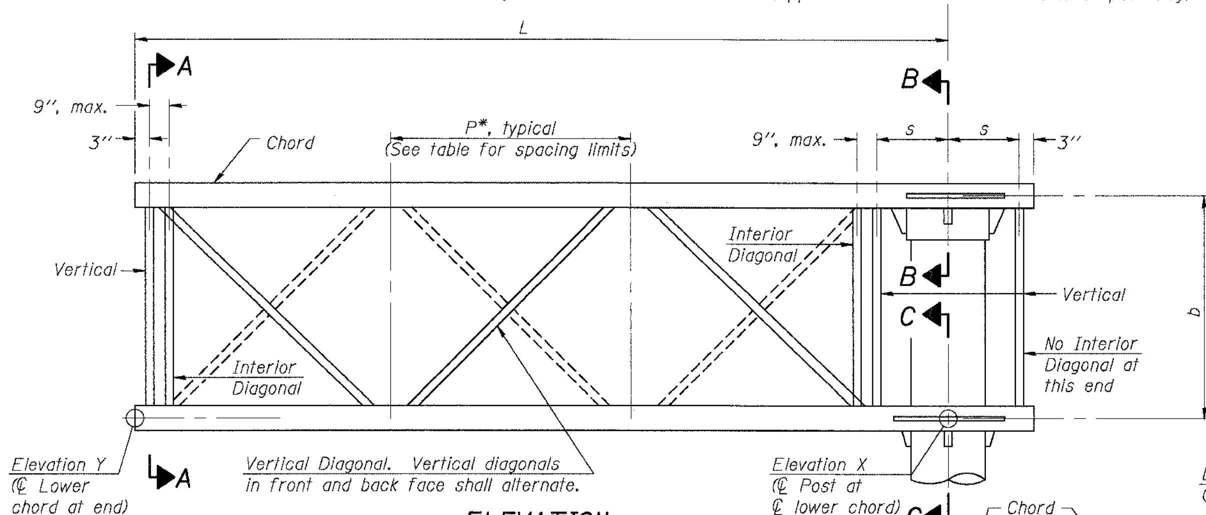
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLAN

(Walkway not shown)

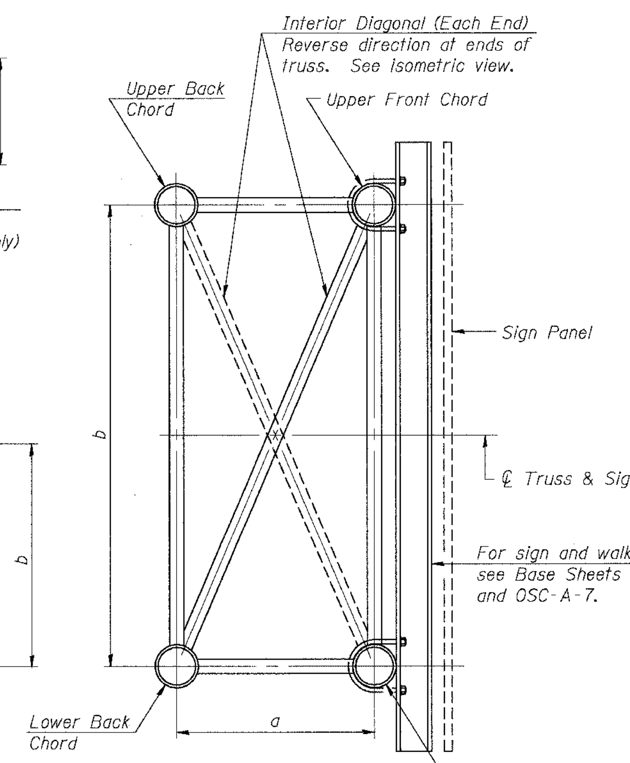


ELEVATION

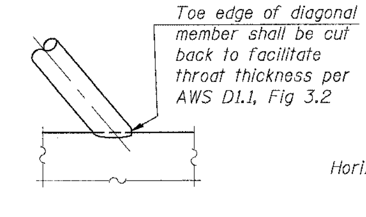
(Sign and walkway omitted for clarity)

TYPICAL TRUSS UNIT

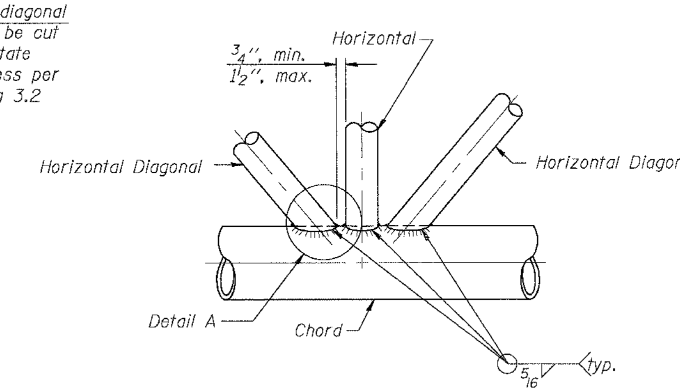
For Section B-B and Section C-C, see Base Sheet OSC-A-3.



SECTION A-A

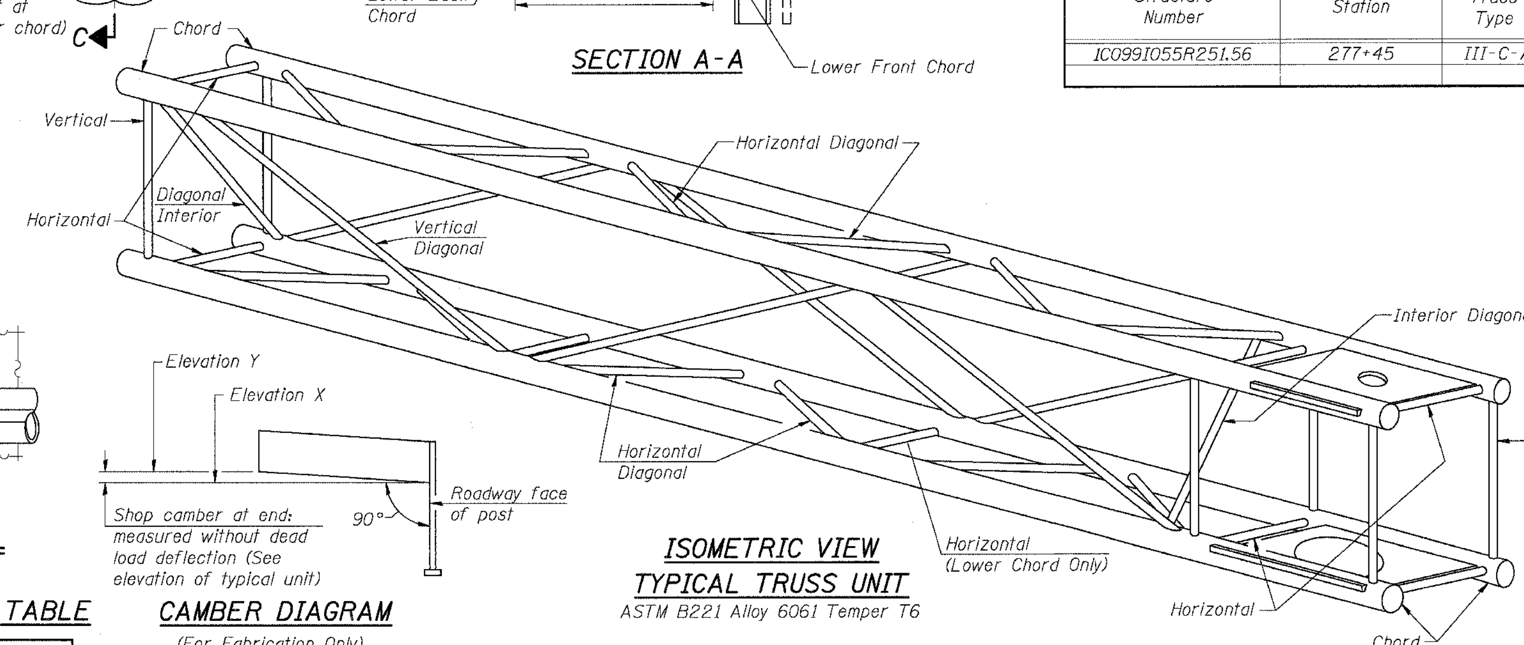


DETAIL A



TRUSS INTERIOR JOINT DETAIL

Structure Number	Station	Truss Type	Design Length (L)	Number of Panels Per Unit	Panel Length (P)*
IC099I055R251.56	277+45	III-C-A	40'-0"	8	4'-9"

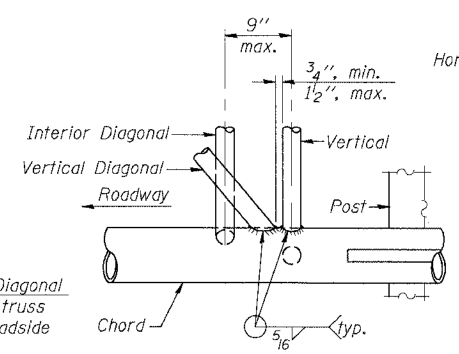


ISOMETRIC VIEW

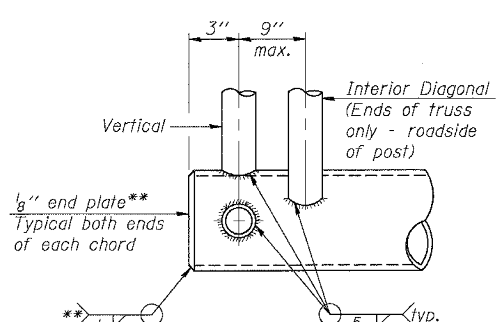
TYPICAL TRUSS UNIT

ASTM B221 Alloy 6061 Temper T6

Note:
There are twice as many horizontal diagonals as there are vertical diagonals.



POST END JOINT DETAIL



CANTILEVER END JOINT DETAIL

** Contractor may alternatively use standard aluminum drive-fit cap to close ends.

Elevation Y
Elevation X
Roadway face of post
90°
Shop camber at end: measured without dead load deflection (See elevation of typical unit)

CAMBER DIAGRAM

(For Fabrication Only)

SHOP CAMBER TABLE

Unit Length (L)	Shop Camber at End
~~15'~~	~~1 1/2"~~
~~16'-17'~~	~~1 3/4"~~
~~18'-20'~~	~~2"~~
~~21'-22'~~	~~2 1/4"~~
~~23'-25'~~	~~2 1/2"~~
~~26'-27'~~	~~2 3/4"~~
~~28'-30'~~	~~3"~~
~~31'-32'~~	~~3 1/4"~~
~~33'-35'~~	~~3 1/2"~~
~~36'-37'~~	~~4"~~
38'-40'	4 1/2"

TRUSS UNIT TABLE

Truss Type	Dimension "a"	Dimension "b"	Dimension "s"	Limits for Panel Spacing (P)*	Up. & Low. Chord O.D.	Up. & Low. Chord Wall	Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals O.D.	Verticals; Horizontals; Vertical, Horizontal, and Interior Diagonals Wall
~~I-C-A~~	~~24"~~	~~54"~~	~~16"~~	~~36" min. to 48" max.~~	~~5"~~	~~5/16"~~	~~2 1/2"~~	~~5/16"~~
~~II-C-A~~	~~36"~~	~~66"~~	~~21"~~	~~42" min. to 54" max.~~	~~6 1/2"~~	~~5/16"~~	~~3 1/4"~~	~~5/16"~~
~~III-C-A (35' Max.)~~	~~36"~~	~~84"~~	~~21"~~	~~48" min. to 66" max.~~	~~7"~~	~~3/8"~~	~~3 1/2"~~	~~3/8"~~
III-C-A (>35' to 40')	36"	84"	21"	48" min. to 66" max.	8"	3/8"	3 1/2"	3/8"

$$*P = \frac{L - s - 3''}{\#\ Panels}$$

NUMBER	REVISION	DATE

SHT. S-13 OF 27

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING
WILL COUNTY

CANTILEVER SIGN STRUCTURES
TRUSS DETAILS
ALUMINUM TRUSS & STEEL POST

SCALE: DRAWN BY MDB
DATE 05/19/06 CHECKED BY MJK

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

OSC-A-2 1-7-05

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CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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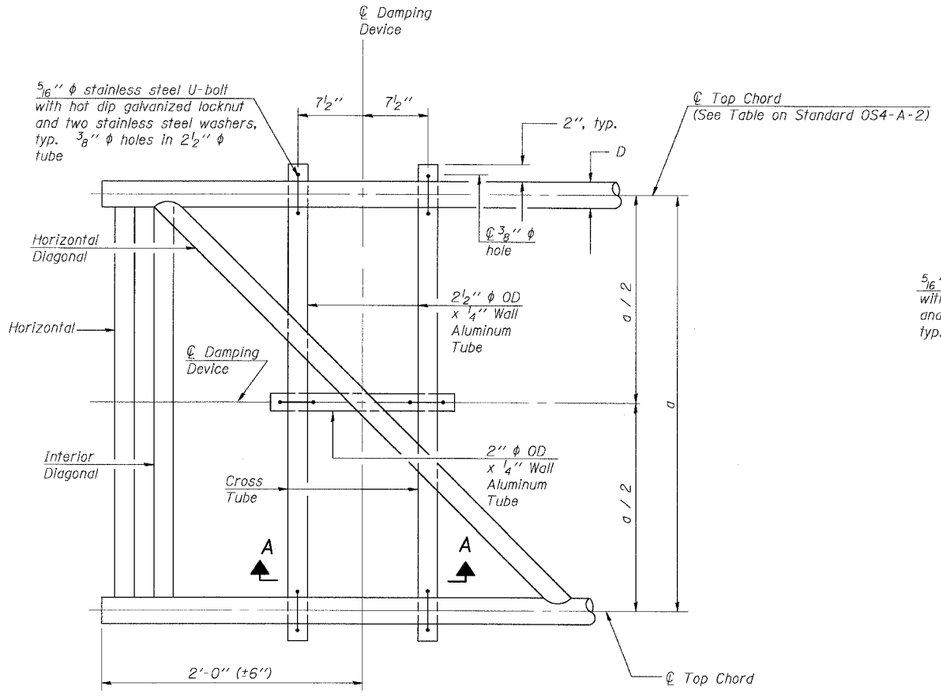
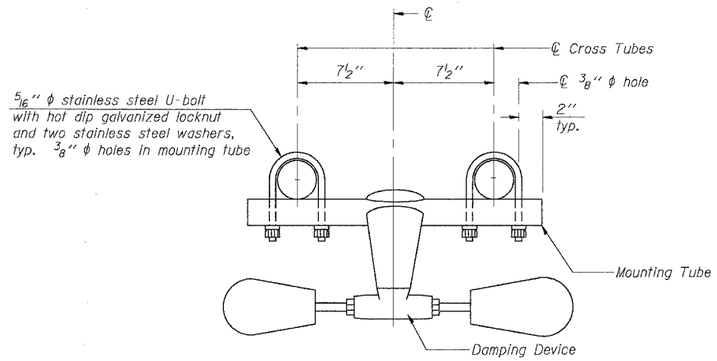
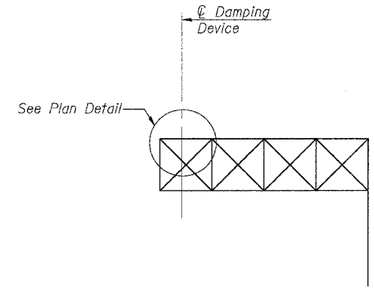
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



PLAN DETAIL



TRUSS DAMPING DEVICE CONNECTION DETAIL

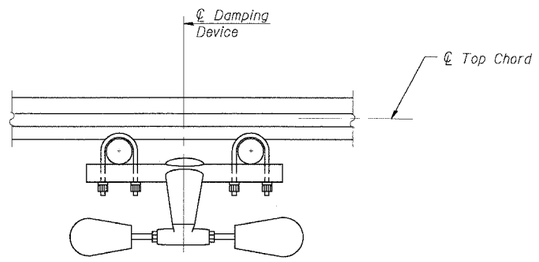


ELEVATION
Aluminum Cantilever Sign Structure

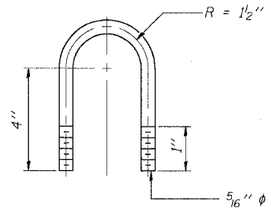
GENERAL NOTES

Damper: One damper per truss. (31 lbs. Stockbridge-Type Aluminum)

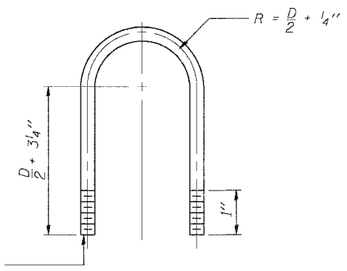
Materials: Aluminum tubes shall be ASTM B221 alloy 6061 temper T6



SECTION A-A



DAMPING DEVICE MOUNTING TUBE U-BOLT DETAIL
(Typical)



TOP CHORD TO CROSS TUBE U-BOLT DETAIL
(Typical)

OSC-A-D 1-7-05

SHT. S-14 OF 27

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING
WILL COUNTY

CANTILEVER SIGN STRUCTURES
DAMPING DEVICE

SCALE:
DRAWN BY MDB
DATE 05/19/06
CHECKED BY MJK

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

PLOT DATE = $DATE$
FILE NAME = $FILE$
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CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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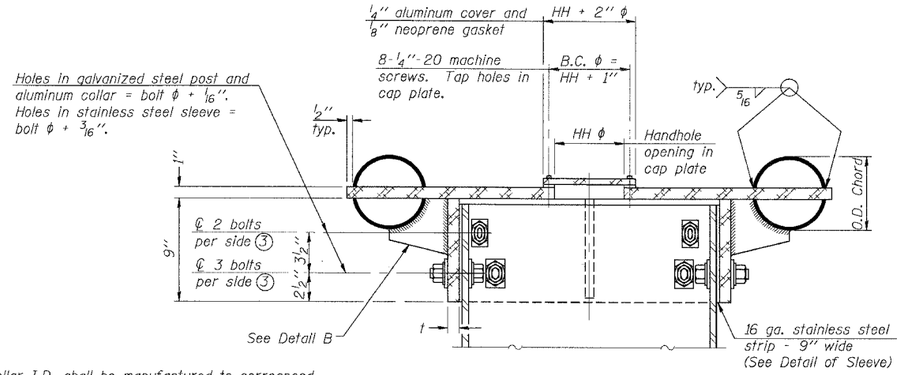
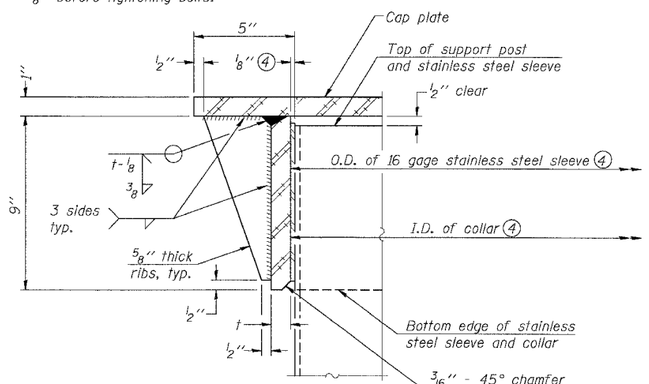
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SECTION B-B

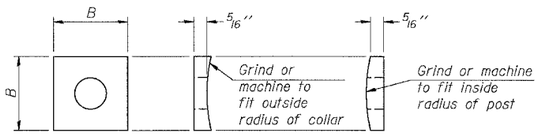
Bolts, washers (including contoured washers), and locknuts shall be stainless steel.

(4) Collar I.D. shall be manufactured to correspond to O.D. of actual galvanized post and stainless steel sleeve plus 1/8" (±1/16"). Maximum gap between post and collar at any location equals 1/8" before tightening bolts.



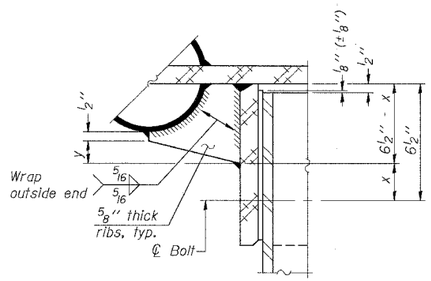
DETAIL A

(Two locations)



CONTOURED WASHERS

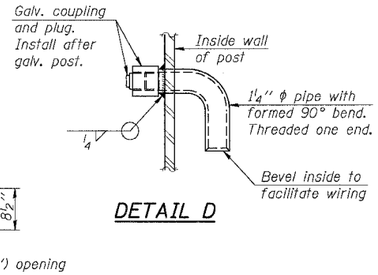
Bolt Size	Contoured Washers	
	Hole Dia.	B
~~7/8"~~	~~1"~~	~~2 1/2"~~
~~1"~~	~~1 1/8"~~	~~3"~~
1 1/4"	1 3/8"	3 1/4"



DETAIL B

Two locations

(For details not shown, see Detail C)

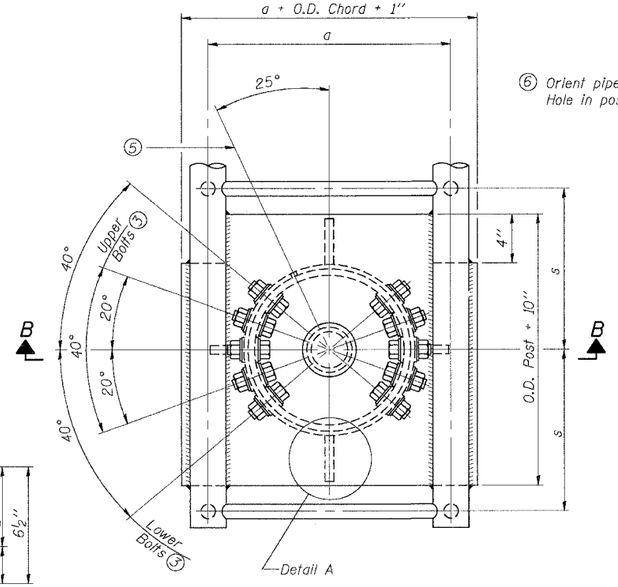


DETAIL D

DETAIL OF STAINLESS STEEL SLEEVE

Weld to post after galvanizing.
(Prepare post surface to insure tight, uniform fit and allow welding.)
Welds to be 1 1/2" long at 6" cts. along top edge and at 1/4" opening.

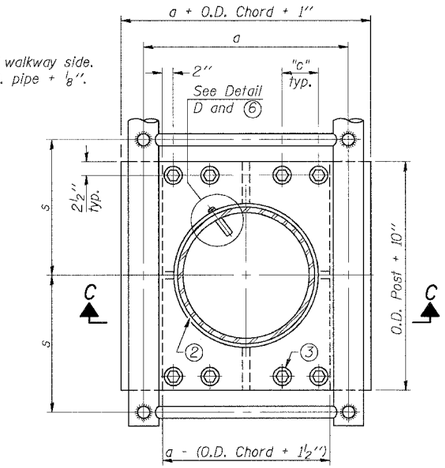
NUMBER	REVISION	DATE



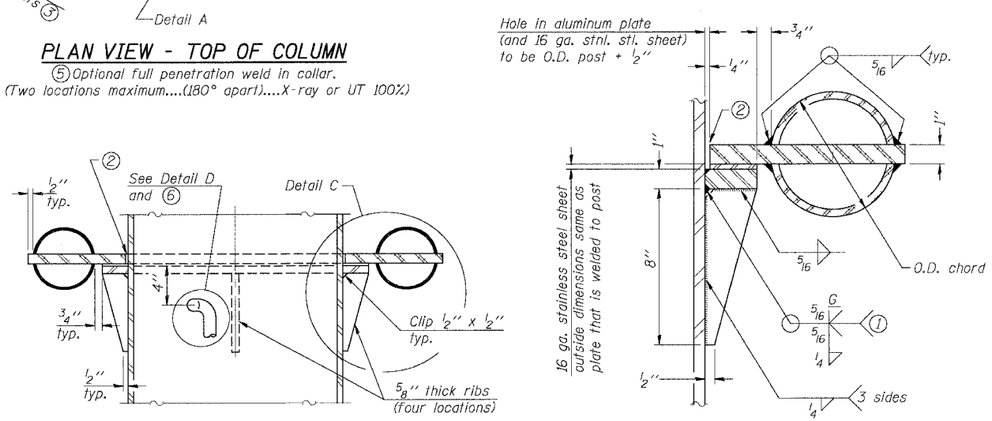
PLAN VIEW - TOP OF COLUMN

(5) Optional full penetration weld in collar.
(Two locations maximum....(180° apart)....X-ray or UT 100%)

(6) Orient pipe toward walkway side. Hole in post = O.D. pipe + 1/8".



SECTION THRU POST ABOVE LOWER CHORDS



SECTION C-C

DETAIL C

(1) Grind top if required to fully seat aluminum plate and stainless steel sheet.

(2) After tightening lower connection bolts, fill gap with non-hardening, silicone caulk suitable for exterior exposure and acceptable to the Engineer. Cost is included in Overhead Sign Structure Cantilever.

Truss Type	Post Size	Upper & Lower Connection Bolt Diameter (3)	Lower Juncture Bolt Spacing Dimension "c" (3)	Opening in Cap Plate "HH"	Collar Thickness (t)	Side Ribs	
						x	y
~~I-C-A~~	~~16" ϕ (83#/')~~	~~7/8"~~	~~3 1/4"~~	~~8"~~	~~5/8"~~	~~1 3/4"~~	~~2 1/4"~~
~~II-C-A~~	~~24" ϕ (125#/')~~	~~1"~~	~~3 1/2"~~	~~12"~~	~~7/8"~~	~~2"~~	~~1 1/4"~~
III-C-A (35' max.)	24" ϕ (125#/')	1 1/4"	3 1/2"	12"	7/8"	2"	1"
III-C-A (>35' to 40')	24" ϕ (171#/')	1 1/4"	3 1/2"	12"	7/8"	2"	1"

(3) Upper and lower connection bolts in collar and bolts at lower chord connection shall be high strength with matching locknuts. Connection bolts shall have 2 stainless steel flat washers each.

OSC-A-3 1-7-05

SHT. S-15 OF 27

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING
WILL COUNTY

CANTILEVER SIGN STRUCTURES JUNCTURE DETAILS ALUMINUM TRUSS & STEEL POST

SCALE:
DRAWN BY MDB
DATE 05/19/06
CHECKED BY MJK

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

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PLOT STYLE = $STYLE$
USER NAME = $USER$

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SAVED:
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CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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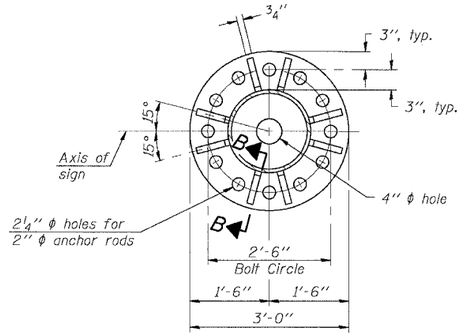
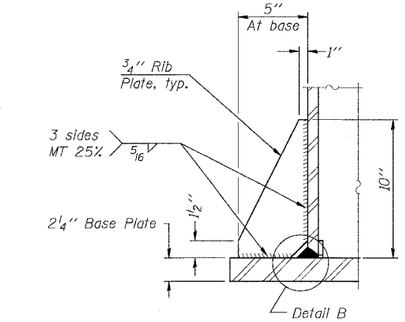
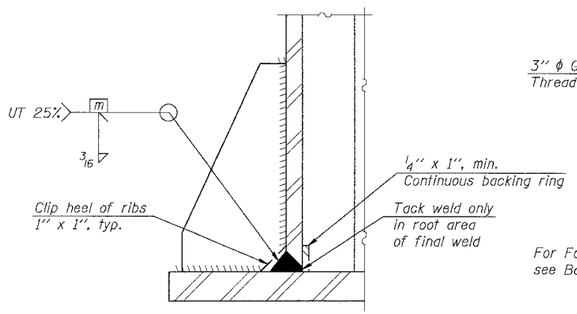
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



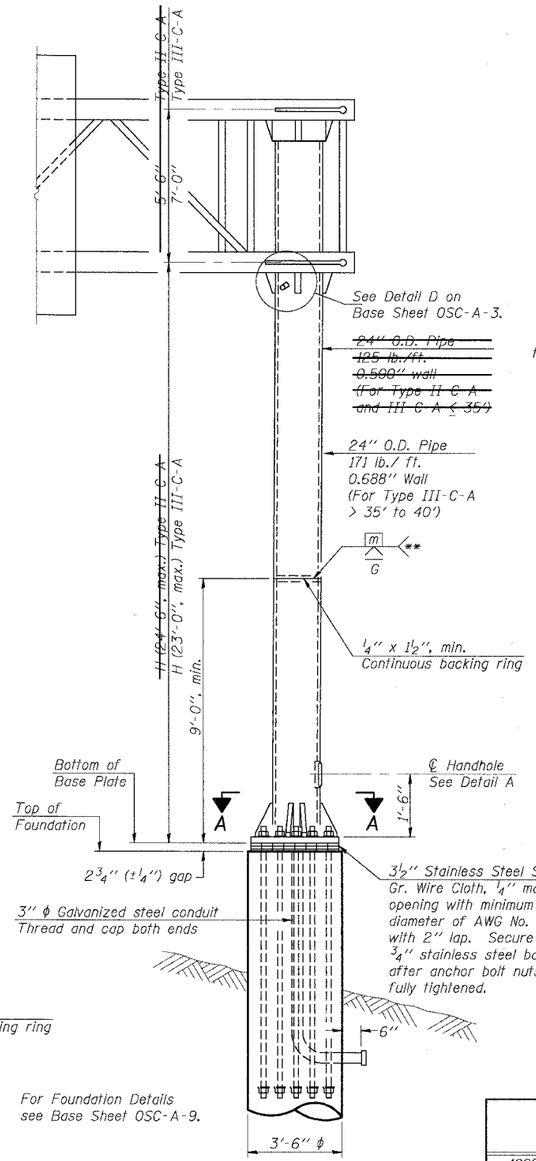
SECTION A-A



SECTION B-B

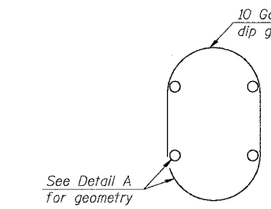


DETAIL B
(Typical rib)

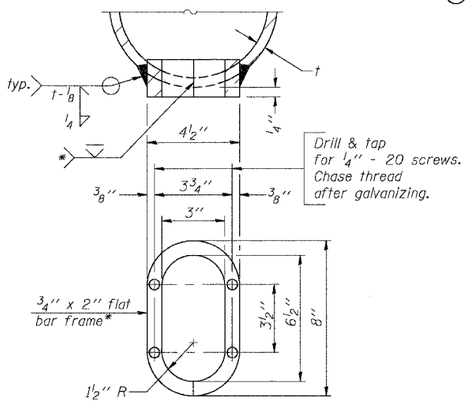


FRONT ELEVATION

For Foundation Details see Base Sheet OSC-A-9.



HANDHOLE COVER



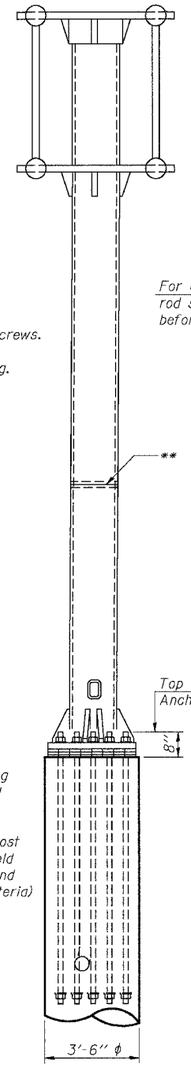
Provide 8" x 4 1/2" cover. Outside corners = 2 1/4" radius. Provide 4-5/16" ϕ holes in cover for 1/4" - 20 round head hot dip galvanized or stainless steel machine screws. (See cover details.)

DETAIL A

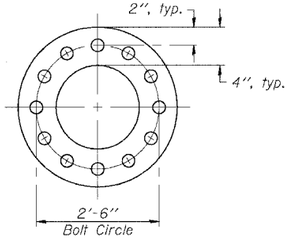
* Bent bars may be butt welded top and bottom or bottom only. In lieu of fabricated handhole frame as shown, may cut from 2" plate (rolling direction vertical). All cut faces to be ground to ANSI Roughness of 500 min or less.

** Butt welded joint in post is only allowed for post heights (H) over 20 ft. in length. If used, weld procedure must be preapproved by Engineer and joint shall receive 100% RT or UT (tension criteria) at Contractor's expense.

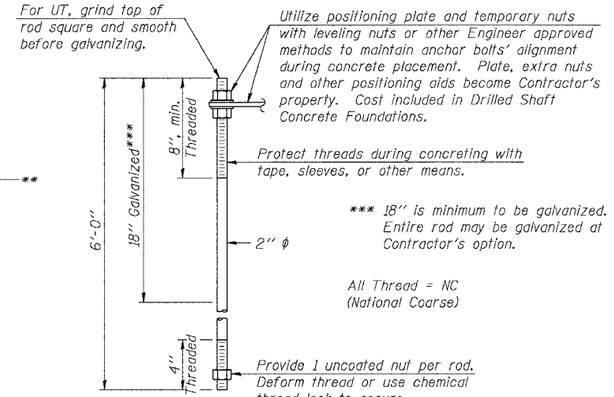
Structure Number	Station	H
IC099I055R251.56	277+45	20'-3"



SIDE ELEVATION



SUGGESTED POSITIONING PLATE



ANCHOR ROD DETAIL

Anchor rods shall conform to AASHTO M314 Grade 55 and meet Charpy V-Notch (CVN) energy of 15 lb.-ft. at 10° F. before galvanizing. Galvanize the upper 18" (minimum***) and associated M291, Grade A, C or DH heavy hex nuts and hardened washers per AASHTO M232. No welding shall be permitted on rods. Provide an unfinished nut at bottom, a hexagon locknut and washer above base plate and a leveling nut and washer below base plate. Nuts shall each be tightened with 200 lb.-ft. minimum torque against base plate. Before or after threading, but before galvanizing, each anchor rod shall be ultrasonically tested (UT) by a Level II or III inspector, qualified in accord with ANSI guidelines, using a straight beam, 1/2" ϕ 3.5 mhz. transducer, to insure no rejectable flaws exist in the upper 18" (tension criteria). Cost of testing included in Drilled Shaft Concrete Foundations.

NUMBER	REVISION	DATE

OSC-A-4 1-7-05

SHT. S-16 OF 27

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING
WILL COUNTY

CANTILEVER SIGN STRUCTURES
TYPE II-C-A & III-C-A TRUSS SUPPORT POST
ALUMINUM TRUSS & STEEL POST

SCALE: DRAWN BY MDB
DATE 05/19/06 CHECKED BY MJK

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

PLOT DATE = $DATE$
FILE NAME = $FILE$
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USER NAME = $USER$

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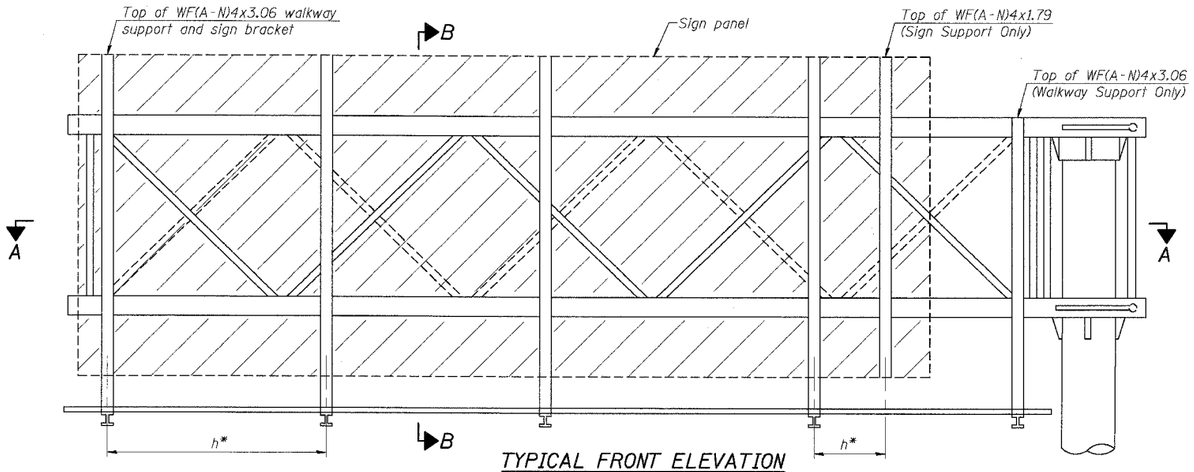
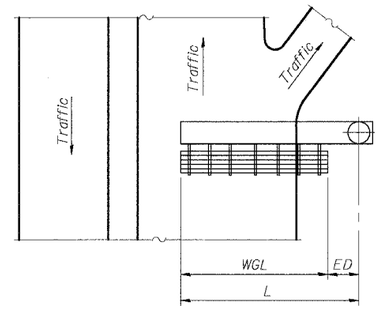
CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	43
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TYPICAL FRONT ELEVATION

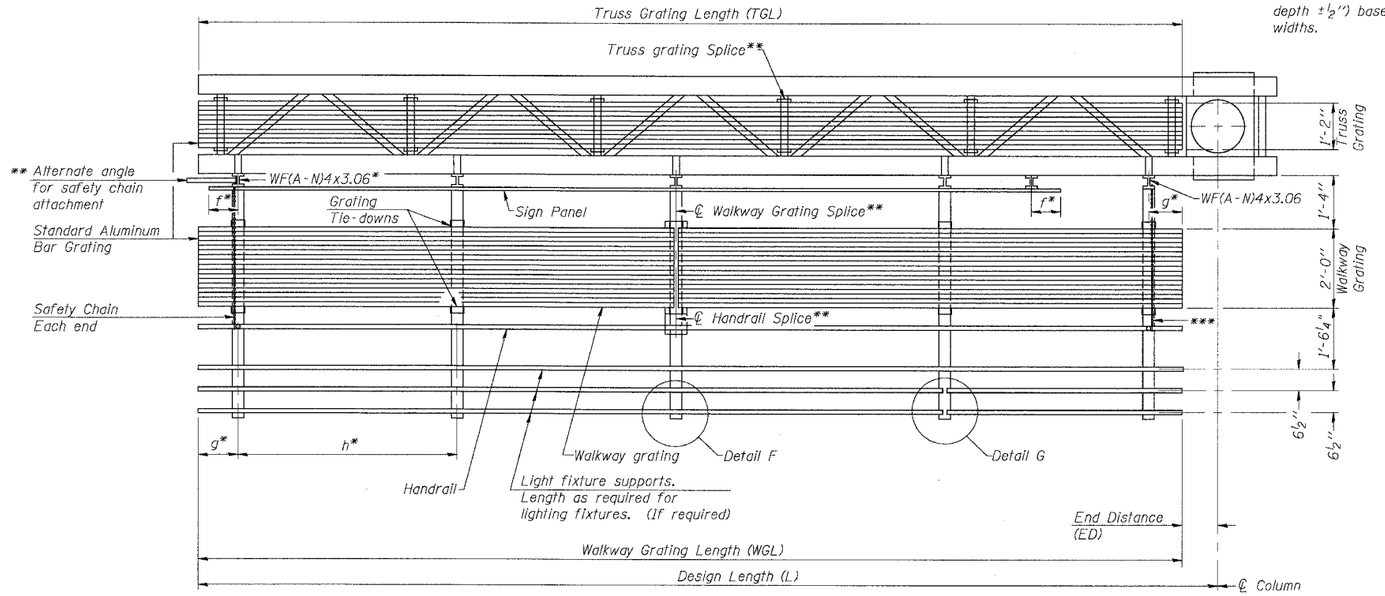
With lights and handrail omitted for clarity.



PLAN
WALKWAY AND HANDRAIL SKETCH

(Road plan beneath truss varies)

Walkway and truss grating dimensions are nominal and may vary (width ±½", depth ±½") based on available standard widths.



Structure Number	Station	WGL	ED	TGL
1C099I055R251.56	277+45	25'-5"	14'-7"	38'-5"

Notes:

* Space walkway brackets WF(A-N)4x3.06 and sign brackets WF(A-N)4x1.79 for efficiency and within limits shown:

f = 12" maximum, 4" minimum (End of sign to ℄ of nearest bracket)
g = 12" maximum, 4" minimum (End of walkway to ℄ of nearest bracket)
h = 6'-0" maximum (℄ to ℄ sign and/or walkway support brackets. WF(A-N)4x1.79 or WF(A-N)4x3.06)

*** If walkway bracket at safety chain location is behind sign, add angle to bracket.

For details of sign placement, sign/walkway brackets, truss and walkway gratings, grating splices and Section B-B, see Base Sheet OSC-A-7.
For details of handrail, handrail splice, safety chain and Details F and G, see Base Sheet OSC-A-8.

Truss grating to facilitate inspection shall run full length of cantilevers. Cost of truss grating is included in Overhead Sign Structure Cantilever.

SECTION A-A

Handrail and walkway grating shall span a minimum of three brackets between splices.
** Use and location of handrail or grating splices are optional, based on lengths needed and material availability.

$$TGL = L - \left(\frac{\text{Post O.D.}}{2} + 6''\right)$$

NUMBER	REVISION	DATE

BRACKET TABLE

WF(A-N)4x1.79 or WF(A-N)4x3.06
ASTM B308, Alloy 6061-T6

Sign Width		Number Brackets Required
Greater Than	Less Than or Equal To	
	8'-0"	2
8'-0"	14'-0"	3
14'-0"	20'-0"	4
20'-0"	26'-0"	5
26'-0"	32'-0"	6

OSC-A-6 1-7-05

SHT. S-17 OF 27

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING
WILL COUNTY

CANTILEVER SIGN STRUCTURES
ALUMINUM WALKWAY DETAILS
ALUMINUM TRUSS & STEEL POST

SCALE:
DRAWN BY MDB
DATE 05/19/06
CHECKED BY MJK

TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

PLOT DATE = $DATE$
FILE NAME = $FILEL$
PLOT SCALE = $SCALE$
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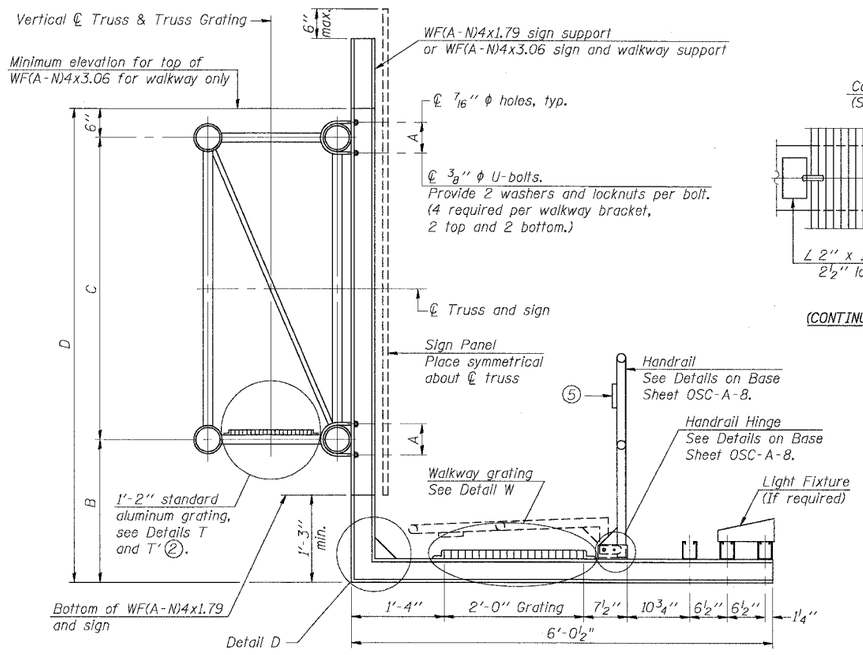
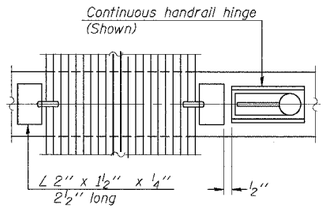
CONTRACT NO. 60A70

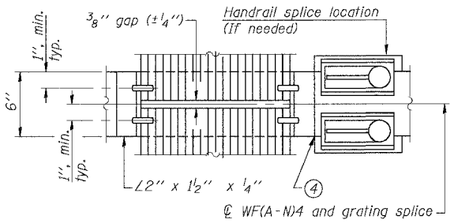
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	44
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SECTION B-B



(CONTINUOUS WALKWAY GRATING)



(AT WALKWAY GRATING SPLICE)

SECTION W-W

SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars (MBB) shall be 3/16" x 1 1/2" on 1 3/16" centers and conform to ASTM B211 Alloy 6061-T6.

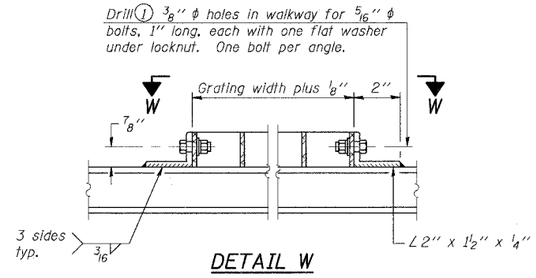
Cross bars (CB) shall be 3/16" x 1 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

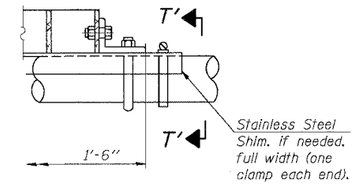
Aluminum Grating with modified "I" sections for main bearing bars shall meet the following requirements:

Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.^{3} per bar, a depth of 1 1/2", spaced on 1 3/16" centers.

Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

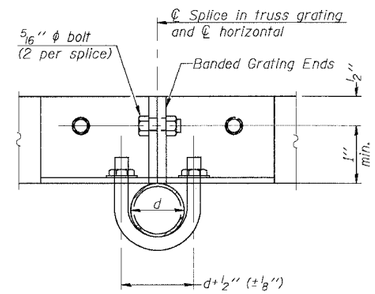


DETAIL W
(Walkway grating)

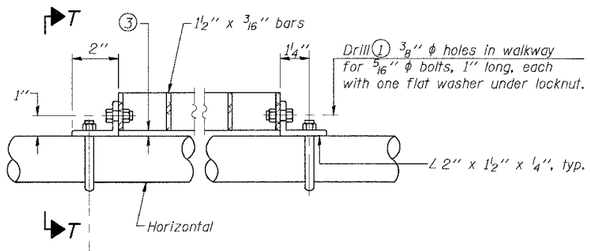


DETAIL T'
(Truss grating splice)

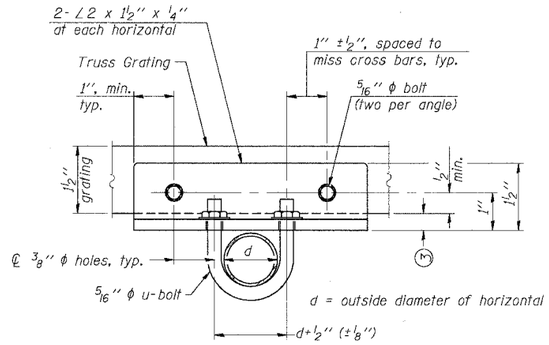
Details not shown same as Detail T. Alternate materials may be used subject to the Engineer's review and approval.



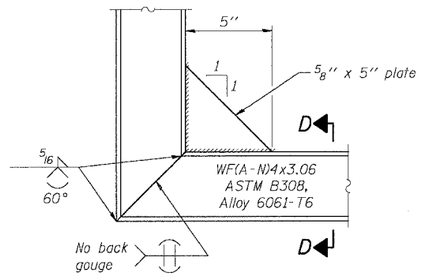
SECTION T'-T'



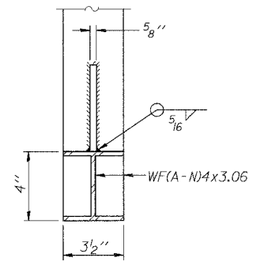
DETAIL T
(Truss grating at horizontal)



SECTION T-T



DETAIL D
(See Detail P, Base Sheet OSC-A-8.)



SECTION D-D

NUMBER	REVISION	DATE

1. Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
2. When truss grating must be spliced, use suggested detail or other methods subject to the Engineer's review and approval. Locate splice to avoid interference between cross bars and bolt locations.
3. Tube to grating gap may vary from 0 to 1/2", max. to align walkway, allow for camber, etc.
4. If Handrail Joint present, weld angle to WF(A-N)4 and 1/4" extension bars. (See Base Sheet OSC-A-8)
5. PL 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.

Structure Number	Station	A	B	C	D
IC099I055R251.56	277+45	8 1/2"	4'-0"	7'-0"	11'-6"

OSC-A-7 1-7-05

SHT. S-18 OF 27

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING
WILL COUNTY

CANTILEVER SIGN STRUCTURES WALKWAY DETAILS ALUMINUM TRUSS & STEEL POST

SCALE: DRAWN BY MDB
DATE 05/19/06 CHECKED BY MJK

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

PLOT DATE = @DATE@
FILE NAME = @FILE@
PLOT SCALE = @SCALE@
USER NAME = @USER@

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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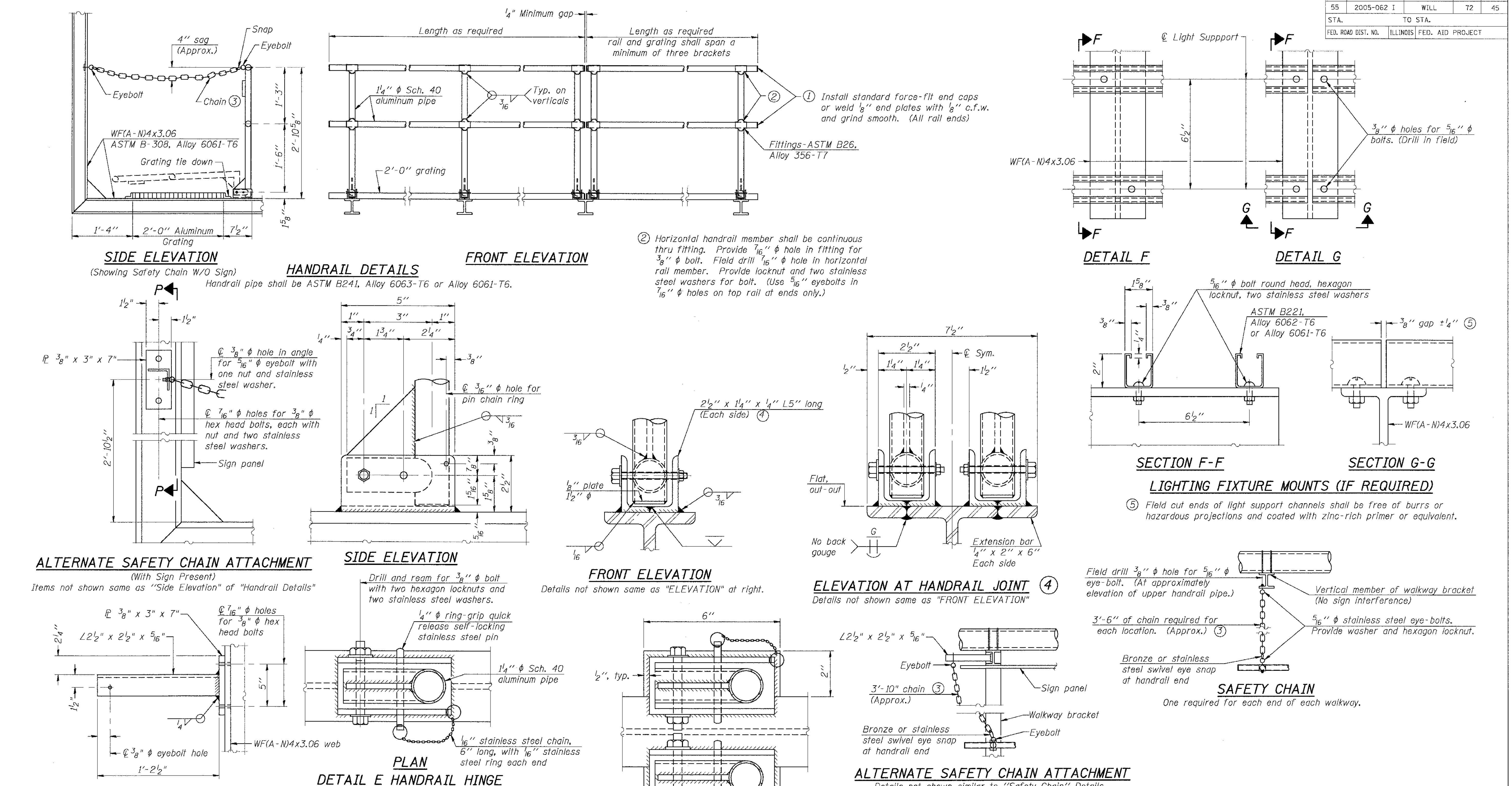
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



① Install standard force-fit end caps or weld 1'8″ end plates with 1'8″ c.f.w. and grind smooth. (All rail ends)

② Horizontal handrail member shall be continuous thru fitting. Provide 7'16″ ϕ hole in fitting for 3'8″ ϕ bolt. Field drill 7'16″ ϕ hole in horizontal rail member. Provide locknut and two stainless steel washers for bolt. (Use 5'16″ eyebolts in 7'16″ ϕ holes on top rail at ends only.)

⑤ Field cut ends of light support channels shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.

③ 3'16″ galvanized steel chain, approximately 12 links per foot. Chain to be hot dip galvanized after manufacture and suitable for prolonged exterior exposure. Alternate materials may be substituted with the Engineer's approval.

④ Extrusions may be used in lieu of the details shown, with approval of the Engineer.

NUMBER	REVISION	DATE

PLOT DATE = $DATE$
FILE NAME = $FILEL$
PLOT SCALE = $SCALE$
USER NAME = $USER$

OSC-A-8 1-7-05

SHT. S-19 OF 27

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING
WILL COUNTY

CANTILEVER SIGN STRUCTURES
HANDRAIL DETAILS
ALUMINUM TRUSS & STEEL POST

SCALE: DRAWN BY MDB
DATE 05/19/06 CHECKED BY MJK

TENG — TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS CHICAGO, ILLINOIS

CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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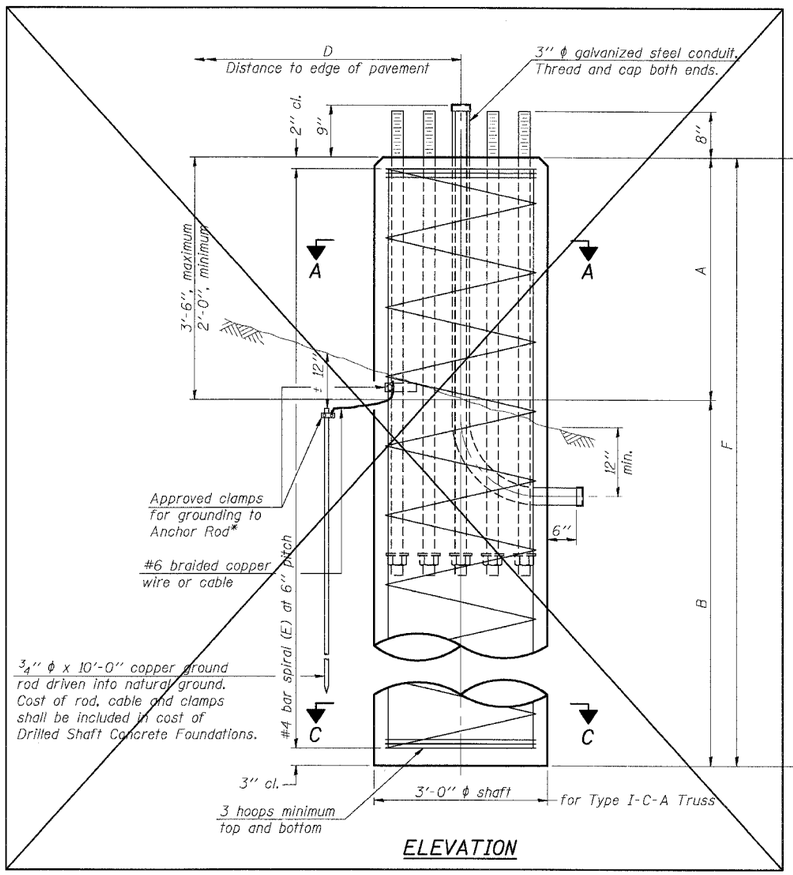
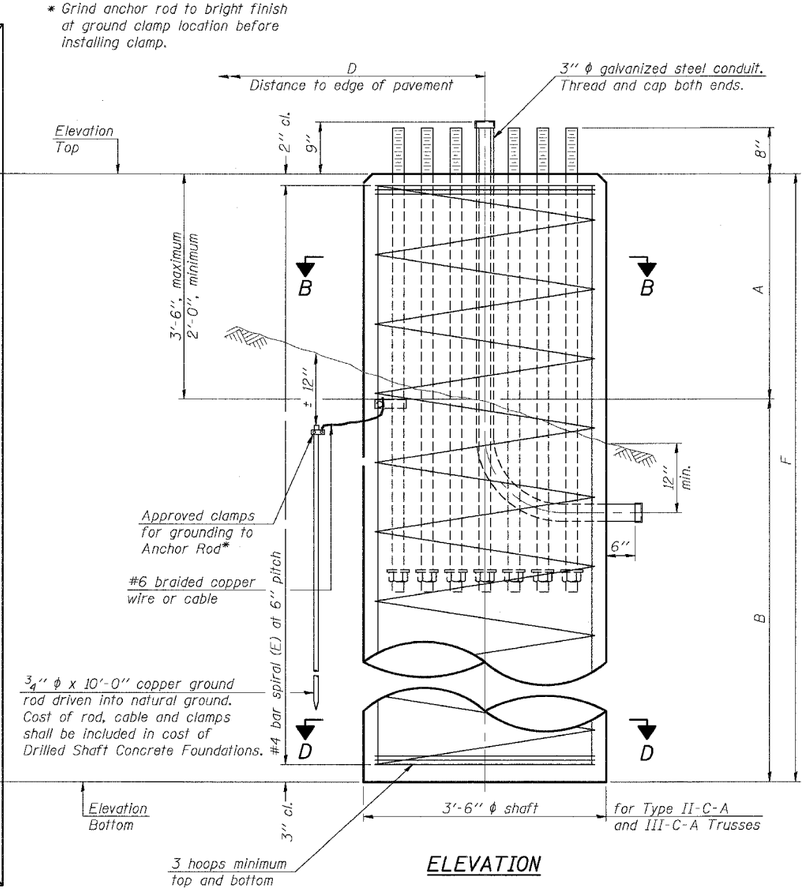
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

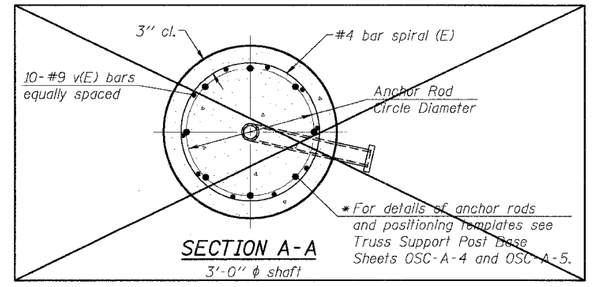


ELEVATION

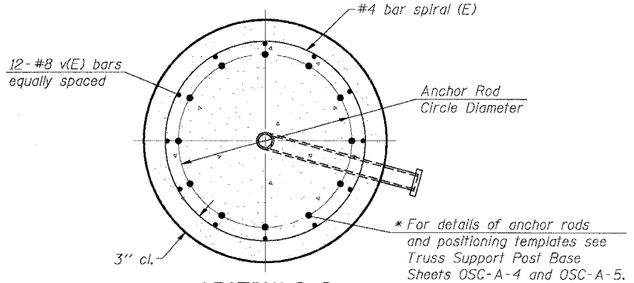
* Grind anchor rod to bright finish at ground clamp location before installing clamp.



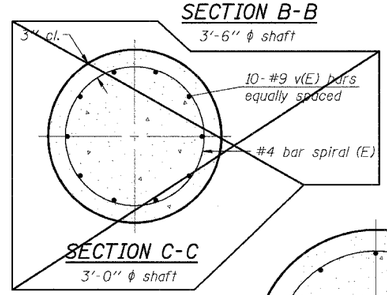
ELEVATION



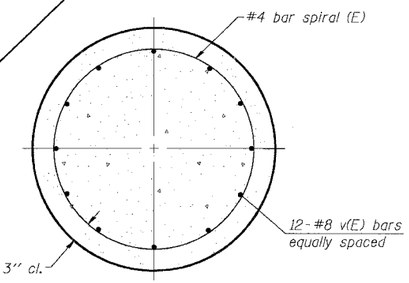
SECTION A-A
3'-0" ϕ shaft



SECTION B-B
3'-6" ϕ shaft



SECTION C-C
3'-0" ϕ shaft



SECTION D-D
3'-6" ϕ shaft

NOTES:

The foundation dimensions shown in the Foundation Design Table are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength (Qu) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown in the Foundation Data Table will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

A normal surface finish followed by a Bridge Seat Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in "Drilled Shaft Concrete Foundation".

The cost of all reinforcing steel shall be included in the cost of Drilled Shaft Foundations.

FOUNDATION DATA TABLE

Structure Number	Station	Truss Type	Shaft Diameter	Elevation Top	Elevation Bottom	Qu	A	B	F	Class SI Concrete Cubic Yards	Depth of Rock Exc. (Ft.)
IC099I055R251.56	277+45	III-C-A	3'-6"	596.86	561.61	1.25	3'-3"	32'-0"	35'-3"	12.6	15'-11"

FOUNDATION DESIGN TABLE

Truss Type	Post Base Sheet	Maximum CantileverLength (ft)	Maximum Total Sign Area (sq ft)	Shaft Diameter (in)	"B" Depth (ft)	Anchor Rods No.	Anchor Rods Diameter (in)	Anchor Rod Circle Diameter (in)
~~I C A~~	~~OSC A 4~~	~~25~~	~~170~~	~~3.0~~	~~16.0~~	~~8~~	~~2~~	~~22~~
~~II C A~~	~~OSC A 5~~	~~30~~	~~170~~	~~3.5~~	~~17.0~~	~~12~~	~~2~~	~~30~~
~~II C A~~	~~OSC A 5~~	~~30~~	~~340~~	~~3.5~~	~~21.5~~	~~12~~	~~2~~	~~30~~
~~III C A~~	~~OSC A 5~~	~~35~~	~~170~~	~~3.5~~	~~19.0~~	~~12~~	~~2~~	~~30~~
~~III C A~~	~~OSC A 5~~	~~35~~	~~250~~	~~3.5~~	~~22.5~~	~~12~~	~~2~~	~~30~~
~~III C A~~	~~OSC A 5~~	~~35~~	~~400~~	~~3.5~~	~~26.5~~	~~12~~	~~2~~	~~30~~
III-C-A	OSC-A-5	40	400	3.5	32.0	12	2	30

NUMBER	REVISION	DATE

OSC-A-9 1-7-05

SHT. S-20 OF 27

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING
WILL COUNTY

CANTILEVER SIGN STRUCTURES DRILLED SHAFT FOUNDATION DETAILS

SCALE: DRAWN BY MDB
DATE 05/19/06 CHECKED BY MJK

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

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USER NAME = $USER$

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CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	47
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Wang Engineering, INC.
Consulting Geotechnical and Environmental Engineers
wangeng3@wangeng.com
1145 Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG SB02-01

WEI Job No.: 555-11-01

Client: **Illinois Department of Transportation**
Project: **I-55 Reconstuction**
Location: **Will County, IL**

Datum: NGVD
Elevation: 569.52 ft
North: 1753454.54 ft
East: 1021520.47 ft
Station: 189+76.90
Offset: 44.62 LT

Elevation (ft)	Depth (ft)	SOIL AND ROCK DESCRIPTION	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
569.52							
569.0	0.5	6-Inch thick, gray SILTY CLAY LOAM					
		Hard, gray SILTY CLAY --FILL--		1	4 9 9	4.50 P	19
566.5	3.0	Soft, gray SILTY CLAY LOAM		2	4 8 13	0.49 B	21
564.0	5.5	Stiff to very stiff, gray SILTY CLAY		3	4 5 7	1.39 B	14
				4	3 7 18	2.71 B	13
560.0	10.0	Very dense, wet , gray, gravelly LOAM, boulder obstruction		5	50 50/1"	NP	10
556.5	13.0	Very dense, gray SILT with boulders		6	50/5"	NP	6
	15			7	50/4"	NP	4
550.5	19.0	--AUGER REFUSAL--		8	50/4"	NP	8
		Boring terminated at 19.00 ft					
	20						

GENERAL NOTES

Begin Drilling: **03-20-2006** Complete Drilling: **03-20-2006**
Drilling Contractor: **Precon Drilling** Drill Rig: **CME-75 ATV**
Driller: **J&S** Logger: **K. Jacob** Checked by: **CTF**
Drilling Method: **3.25 IDA HSA, Boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **12.50 ft**
At Completion of Drilling: **8.00 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types: the actual transition may be gradual.

Wang Engineering, INC.
Consulting Geotechnical and Environmental Engineers
wangeng3@wangeng.com
1145 Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG SB02-02

WEI Job No.: 555-11-01

Client: **Illinois Department of Transportation**
Project: **I-55 Reconstuction**
Location: **Will County, IL**

Datum: NGVD
Elevation: 570.25 ft
North: 1753454.94 ft
East: 1021618.04 ft
Station: 189+74.24
Offset: 52.91 RT

Elevation (ft)	Depth (ft)	SOIL AND ROCK DESCRIPTION	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
570.25							
569.8	0.5	6-Inch thick AGGREGATE --BASE COURSE--					
		Loose, gray gravelly SAND --FILL--		1	8 5 3	NP	5
567.3	3.0	Very stiff, dark gray CLAY LOAM --FILL--		2	2 6 6	2.00 P	12
564.8	5.5	Stiff to hard, brown and gray SILTY CLAY		3	2 9 11	4.10 B	14
				4	3 9 17	3.69 B	15
	10			5	25 50/3"	1.50 P	13
557.3	13.0	Very dense, gray SILT with boulders		6	50/5"	NP	10
554.9	15.4	--AUGER REFUSAL--		7	50/4"	NR	
		Boring terminated at 15.33 ft					
	20						

GENERAL NOTES

Begin Drilling: **03-26-2006** Complete Drilling: **03-26-2006**
Drilling Contractor: **Precon Drilling** Drill Rig: **CME-75 ATV**
Driller: **J & L** Logger: **S. Sugiarto** Checked by: **CTF**
Drilling Method: **3.25 IDA HSA, Boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types: the actual transition may be gradual.

SHT. S-21 OF 27

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING
WILL COUNTY

OVERHEAD SIGN STRUCTURES
SOIL BORING LOGS
STA. 189+70

SCALE:
DRAWN BY MDB
DATE 05/19/06
CHECKED BY MJK

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

PLOT DATE = $DATE$
FILE NAME = $FILE$
PLOT SCALE = $SCALE$
USER NAME = $USER$

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CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	48
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Wang Engineering, INC.
Consulting Geotechnical and Environmental Engineers
wangeng3@wangeng.com
1145 Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG SB03-01

WEI Job No.: 555-11-01

Client: **Illinois Department of Transportation**
Project: **I-55 Reconstuction**
Location: **Will County, IL**

Datum: NGVD
Elevation: 588.84 ft
North: 1757455.57 ft
East: 1021423.39 ft
Station: 229+79.00
Offset: 2.87 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (RECOVERY)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	588.84							
	588.3	6-Inch thick, brown SILTY CLAY LOAM --TOPSOIL--						
		Very stiff, gray CLAY --FILL--			1	4 8 12	2.75 P	22
	586.6	Medium dense, brown SAND						
			5		2	4 6 7	NP	11
	583.3	Medium stiff, gray SANDY CLAY LOAM			3	2 3 4	0.98 B	15
	580.3							
	580.1	Medium dense, gray SANDY LOAM			4	4 6 9	1.31 B	12
	579.1	Stiff, gray SILTY CLAY to CLAY	10					
		Dense, gray SILTY LOAM to LOAM			5	8 16 20	NP	9
	575.8	Very dense, gray SILT with boulders, wet			6	50/3	NP	12
			15		7	50/1	NP	6
	572.3	--AUGER REFUSAL--						
		Boring terminated at 16.50 ft						
			20					

GENERAL NOTES

Begin Drilling: **03-26-2006** Complete Drilling: **03-26-2006**
Drilling Contractor: **Precon Drilling** Drill Rig: **CME-75 ATV**
Driller: **J&S** Logger: **K. Jacob** Checked by: **CTF**
Drilling Method: **3.25 IDA HSA, Boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **13.40 ft**
At Completion of Drilling: **11.75 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

BORING LOG SB03-02

Wang Engineering, INC.
Consulting Geotechnical and Environmental Engineers
wangeng3@wangeng.com
1145 Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

WEI Job No.: 555-11-01

Client: **Illinois Department of Transportation**
Project: **I-55 Reconstuction**
Location: **Will County, IL**

Datum: NGVD
Elevation: 587.11 ft
North: 1757453.44 ft
East: 1021334.91 ft
Station: 229+79.61
Offset: 85.63 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type (RECOVERY)	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	587.11							
	586.6	6-inch thick, brown CLAY LOAM --TOPSOIL--						
		Loose, brown, coarse SAND --FILL--			1	3 4 3	NP	9
	584.1	Stiff to very stiff, gray SILTY CLAY						
		--FILL--	5		2	2 3 4	2.46 B	14
					3	1 4 5	1.50 P	14
	579.1	Medium dense, gray, gravelly SILTY LOAM	10		4	3 12 9	NP	9
	576.6	Very dense. gray, gravelly SILT, with cobbles and boulders: weathered bedrock			5	8 47 50/4"	NP	9
	573.1	--AUGER REFUSAL--			6	50/5"	NP	
		Boring terminated at 14.00 ft	15					
			20					

GENERAL NOTES

Begin Drilling: **03-22-2006** Complete Drilling: **03-22-2006**
Drilling Contractor: **Precon Drilling** Drill Rig: **CME-75 ATV**
Driller: **J&L** Logger: **S. Sugiarto** Checked by: **CTF**
Drilling Method: **3.25 IDA HSA, Boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **11.50 ft**
At Completion of Drilling: **6.00 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

SHT. S-22 OF 27

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING
WILL COUNTY

OVERHEAD SIGN STRUCTURES SOIL BORING LOGS STA. 229+76

SCALE:
DRAWN BY MDB
DATE 05/19/06
CHECKED BY MJK

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

WANGENG INC 555110 1 GPJ WANGENG.GDT 4/14/06

PLOT DATE = $DATE$
FILE NAME = $FILEL$
PLOT SCALE = $SCALE$
USER NAME = $USER$

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CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	49
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Wang Engineering, INC.
Consulting Geotechnical and Environmental Engineers
wangeng3@wangeng.com
1145 Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG SB05-01

WEI Job No.: 555-11-01

Client: **Illinois Department of Transportation**
Project: **I-55 Reconstuction**
Location: **Will County, IL**

Datum: NGVD
Elevation: 588.01 ft
North: 1759300.34 ft
East: 1021365.90 ft
Station: 248+24.67
Offset: 2.39 RT

Elevation (ft)	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	SOIL AND ROCK DESCRIPTION
588.01							
587.5	0						6-Inch thick, brown SILTY CLAY LOAM --TOPSOIL--
			1	3 3 5	2.13 B	21	Very stiff, brown SILTY CLAY --FILL--
585.0	3						Medium dense, brown, coarse SAND
	5		2	6 11 9	NP	7	
			3	5 7 8	NP	7	
	10		4	5 7 9	NP	6	
			5	8 11 10	NP	6	
	15		6	5 9 12	NP	14	
571.8			7	3 5 7	1.31 B	14	Stiff to very stiff, gray CLAY to SILTY CLAY
	20		8	8 12 16	3.94 B	18	
565.0	23		9	9 16 14	2.21 B	14	Very dense, gray SILTY CLAY to SILTY LOAM
564.0	24		10	50/2"	NP	11	--AUGER REFUSAL--
							Boring terminated at 24.00 ft
	25						
	30						
	35						
	40						

GENERAL NOTES

Begin Drilling: **03-26-2006** Complete Drilling: **03-26-2006**
Drilling Contractor: **Precon Drilling** Drill Rig: **CME-75 ATV**
Driller: **J&S** Logger: **K. Jacob** Checked by: **CTF**
Drilling Method: **3.25 IDA HSA, Boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **14.00 ft**
At Completion of Drilling:
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

Wang Engineering, INC.
Consulting Geotechnical and Environmental Engineers
wangeng3@wangeng.com
1145 Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG SB05-02

WEI Job No.: 555-11-01

Client: **Illinois Department of Transportation**
Project: **I-55 Reconstuction**
Location: **Will County, IL**

Datum: NGVD
Elevation: 591.57 ft
North: 1759302.88 ft
East: 1021459.97 ft
Station: 248+24.30
Offset: 96.49 RT

Elevation (ft)	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)	SOIL AND ROCK DESCRIPTION
591.57							
591.4	0						2-inch thick, ASPHALT --PAVEMENT--
			1	4 7 6	> 4.50 P	21	Hard, brown and gray SILTY CLAY --FILL--
588.6	3						Stiff, brown SILTY CLAY LOAM
	5		2	2 3 3	1.64 B	24	
586.1							Loose to medium dense, brown, coarse SAND
			3	2 4 5	NP	8	
	10		4	7 7 7	NP	6	
580.1			5	4 3 2	NP	21	Loose, brown SILTY LOAM
578.6	13						Medium dense, brown GRAVELLY SAND
	15		6	4 11 11	NP	11	
574.8			7	7 5 8	2.46 B	15	Very stiff to hard, gray SILTY CLAY
	20		8	5 4 12	8.20 B	18	
571.1	20		9	8 21 33	NP	14	Very dense, gray, gravelly SILTY LOAM
566.6	25		10	50/4"	NP	9	--AUGER REFUSAL--
							Boring terminated at 25.00 ft
	30						
	35						
	40						

GENERAL NOTES

Begin Drilling: **03-22-2006** Complete Drilling: **03-22-2006**
Drilling Contractor: **Precon Drilling** Drill Rig: **CME-75 ATV**
Driller: **J & L** Logger: **S. Sugiarto** Checked by: **CTF**
Drilling Method: **3.25 IDA HSA, Boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **11.50 ft**
At Completion of Drilling: **NA**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

SHT. S-23 OF 27

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING
WILL COUNTY

OVERHEAD SIGN STRUCTURES SOIL BORING LOGS STA. 248+22

SCALE:
DRAWN BY MDB
DATE 05/19/06
CHECKED BY MJK

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

PLOT DATE = $DATE$
FILE NAME = $FILEL$
PLOT SCALE = $SCALE$
USER NAME = $USER$

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CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	50
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Wang Engineering, INC.
Consulting Geotechnical and Environmental Engineers
wangeng3@wangeng.com
1145 Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG SB04-01

WEI Job No.: 555-11-01

Client: **Illinois Department of Transportation**
Project: **I-55 Reconstuction**
Location: **Will County, IL**

Datum: NGVD
Elevation: 585.96 ft
North: 1760104.25 ft
East: 1021331.76 ft
Station: 256+29.25
Offset: 6.9 LT

Elevation (ft)	Depth (ft)	SOIL AND ROCK DESCRIPTION	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
585.96							
585.5	0	6-inch thick, brown CLAY LOAM --TOPSOIL--					
		Stiff, brown CLAY --FILL--		1	5 4 6	1.75 P	26
583.0	2.5	Medium stiff, brown, gravelly CLAY LOAM		2	3 4 4	0.75 P	15
580.5	5	Medium dense, brown and gray SAND to SANDY LOAM		3	3 7 10	NP	8
	10			4	3 7 11	NP	6
	15			5	6 12 14	NP	11
				6	4 10 12	NP	8
				7	5 5 7	NP	8
566.5	20	Dense, gray SILTY LOAM		8	12 16 16	NP	6

Elevation (ft)	Depth (ft)	SOIL AND ROCK DESCRIPTION	Sample Type / recovery	Sample No.	N Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
565.5	0	Dense, gray SAND		9	10 50 28	NP	10
564.2	1.3	Very dense, gray SILTY LOAM					
562.7	2.8	Soft, gray SILTY CLAY		10	5 16 18	NP	11
562.0	3.5	Dense, gray SILTY LOAM					
560.5	5	--AUGER REFUSAL--					
		Boring terminated at 25.50 ft					

GENERAL NOTES

Begin Drilling: **03-27-2006** Complete Drilling: **03-27-2006**
Drilling Contractor: **Precon Drilling** Drill Rig: **CME-75 ATV**
Driller: **J&S** Logger: **K. Jacob** Checked by: **CTF**
Drilling Method: **3.25 IDA HSA, Boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **11.00 ft**
At Completion of Drilling: **18.00 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

Wang Engineering, INC.
Consulting Geotechnical and Environmental Engineers
wangeng3@wangeng.com
1145 Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG SB04-02

WEI Job No.: 555-11-01

Client: **Illinois Department of Transportation**
Project: **I-55 Reconstuction**
Location: **Will County, IL**

Datum: NGVD
Elevation: 586.26 ft
North: 1760101.30 ft
East: 1021256.76 ft
Station: 256+28.62
Offset: 81.96 LT

Elevation (ft)	Depth (ft)	SOIL AND ROCK DESCRIPTION	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
586.26							
585.9	0	4-Inch thick, brown CLAY LOAM --TOPSOIL--					
		Very stiff, brown and gray SILTY CLAY LOAM --FILL--		1	2 4 5	2.46 B	24
582.5	3.5	Stiff, brown and gray CLAY LOAM to LOAM with roots		2	2 3 4	1.00 P	14
580.3	5.5	Medium dense, brown and gray gravelly SAND		3	3 8 10	NP	5
	10			4	5 13 14	NP	5
575.3	10.5	Medium dense, gray SANDY GRAVEL		5	5 10 8	NP	12
	15			6	4 9 10	NP	12
570.8	15.5	Dense to very dense, gray gravelly SILTY LOAM, with cobbles and boulders		7	16 20 18	NP	10
	20			8	13 40 22	NP	11

Elevation (ft)	Depth (ft)	SOIL AND ROCK DESCRIPTION	Sample Type / recovery	Sample No.	N Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
				9	12 42 50/3"	NP	10
562.3	24.0	--AUGER REFUSAL--		10	50/3"	NP	13
		Boring terminated at 24.00 ft					

GENERAL NOTES

Begin Drilling: **03-22-2006** Complete Drilling: **03-22-2006**
Drilling Contractor: **Precon Drilling** Drill Rig: **CME-75 ATV**
Driller: **J&L** Logger: **S. Sugiarto** Checked by: **CTF**
Drilling Method: **3.25 IDA HSA, Boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **11.00 ft**
At Completion of Drilling: **14.00 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

SHT. S-24 OF 27

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING
WILL COUNTY

OVERHEAD SIGN STRUCTURES
SOIL BORING LOGS
STA. 256+26

SCALE:
DRAWN BY MDB
DATE 05/19/06
CHECKED BY MJK

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

PLOT DATE = #DATE#
FILE NAME = #FILEL#
PLOT SCALE = #SCALE#
USER NAME = #USER#

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CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	51
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Wang Engineering, INC.
Consulting Geotechnical and Environmental Engineers
wangeng3@wangeng.com
1145 Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG SB-06

WEI Job No.: 555-11-01

Client: **Illinois Department of Transportation**
Project: **I-55 Reconstuction**
Location: **Will County, IL**

Datum: NGVD
Elevation: 595.00 ft
North: 1762216.73 ft
East: 1021383.99 ft
Station: 277+45.51
Offset: 99.68 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / Recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	595.00							
	594.5	6-inch thick ASPHALT --PAVEMENT--						
	594.0	6-inch thick, brown SAND and GRAVEL --BASE COURSE--						
		Stiff, brown to gray SILTY CLAY to SILTY CLAY LOAM --FILL--			1	2 3 5	1.97 B	31
			5		2	1 2 6	1.65 B	32
	589.5	Very stiff to hard, brown and gray SILTY CLAY			3	3 8 12	8.04 B	19
			10		4	3 8 12	7.54 B	19
					5	3 7 12	6.97 B	20
	580.5	Very stiff, gray SILTY CLAY LOAM			6	3 6 9	3.91 B	19
			15					
	578.8				7	17 50/5"	3.00 P	18
	577.5	--WEATHERED BEDROCK-- --AUGER REFUSAL 17.5'-- Boring terminated at 17.50 ft						
			20					
			25					

GENERAL NOTES

Begin Drilling: **01-17-2006** Complete Drilling: **01-17-2006**
Drilling Contractor: **Precon Drilling** Drill Rig: **CME-75 ATV**
Driller: **J & N** Logger: **M. Reyes** Checked by: **E. Datz**
Drilling Method: **3.25 IDA HSA, Boring backfilled upon completion**

WATER LEVEL DATA

While Drilling ▽ **DRY**
At Completion of Drilling ▼ **DRY**
Time After Drilling **NA**
Depth to Water ▼ **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

WANGENGINC 5551101.GPJ WANGENG.GDT 4/18/06

SHT. S-25 OF 27

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING
WILL COUNTY

CANTILEVER SIGN STRUCTURES SOIL BORING LOGS STA. 277+45

SCALE:
DRAWN BY MDB
DATE 05/19/06
CHECKED BY MJK

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

PLOT DATE = $DATE$
FILE NAME = $FILEL$
PLOT SCALE = $SCALE$
USER NAME = $USER$

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CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	52
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Wang Engineering, INC.
Consulting Geotechnical and Environmental Engineers
wangeng3@wangeng.com
1145 Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG SB07-01

WEI Job No.: 555-11-01

Client: **Illinois Department of Transportation**
Project: **I-55 Reconstuction**
Location: **Will County, IL**

Datum: NGVD
Elevation: 582.60 ft
North: 1767387.23 ft
East: 1023346.55 ft
Station: 333+67.38
Offset: 19.44 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
582.60								
582.3	582.3	4-Inch thick ASPHALT --PAVEMENT--						
581.6	581	8-Inch thick CRUSHED STONE --BASE COURSE--						
		Very stiff, gray CLAY --FILL--			1	3 6 10	3.50 P	23
579.6	579.6	Medium dense, gray, gravelly SILTY LOAM	5		2	2 13 12	NP	20
577.1	577.1	Medium stiff, brown and gray CLAY to SILTY CLAY			3	2 4 5	0.75 P	28
			10		4	1 2 2	0.50 P	14
571.1	571.1	Very dense, brown, gravelly LOAM, with cobbles and boulders: weathered bedrock			5	8 50/5"	NP	16
568.6	568.6	--AUGER REFUSAL--			6	50/2"	NP	8
		Boring terminated at 14.00 ft	15					
			20					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	N Values (blw/6 in)	Qu (tsf)	Moisture Content (%)

GENERAL NOTES

Begin Drilling: **03-27-2006** Complete Drilling: **03-27-2006**
Drilling Contractor: **Precon Drilling** Drill Rig: **CME-75 ATV**
Driller: **J&S** Logger: **K. Jacob** Checked by: **CTF**
Drilling Method: **3.25 IDA HSA, Boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **12.50 ft**
At Completion of Drilling: **11.50 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

Wang Engineering, INC.
Consulting Geotechnical and Environmental Engineers
wangeng3@wangeng.com
1145 Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG SB07-02

WEI Job No.: 555-11-01

Client: **Illinois Department of Transportation**
Project: **I-55 Reconstuction**
Location: **Will County, IL**

Datum: NGVD
Elevation: 582.61 ft
North: 1767359.48 ft
East: 1023389.25 ft
Station: 333+62.40
Offset: 70.12 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
582.61								
582.0	582.0	7-inch thick, ASPHALT --PAVEMENT--						
		Hard, brown and gray CLAY LOAM --FILL--			1	4 7 5	> 4.50 P	17
579.6	579.6	Stiff, brown and gray CLAY	5		2	3 4 5	1.64 B	10
575.9	575.9	Loose, brown and gray LOAM			3	1 2 7	NP	18
574.6	574.6	Very dense, brown, gravelly LOAM, with cobbles and boulders: weathered bedrock	10		4	5 11 50/3	NP	16
571.4	571.4	--AUGER REFUSAL--						
		Boring terminated at 11.17 ft	15					
			20					
			25					

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	N Values (blw/6 in)	Qu (tsf)	Moisture Content (%)

GENERAL NOTES

Begin Drilling: **03-21-2006** Complete Drilling: **03-21-2006**
Drilling Contractor: **Precon Drilling** Drill Rig: **CME-75 ATV**
Driller: **J & L** Logger: **S. Sugiarto** Checked by: **CTF**
Drilling Method: **3.25 IDA HSA, Boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **9.00 ft**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

SHT. S-26 OF 27

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING
WILL COUNTY

OVERHEAD SIGN STRUCTURES
SOIL BORING LOGS
STA. 333+75

SCALE:
DRAWN BY MDB
DATE 05/19/06
CHECKED BY MJK

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

PLOT DATE = $DATE$
FILE NAME = $FILE$
PLOT SCALE = $SCALE$
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WANGENGINC 555101.GPJ WANGENG.GDT 4/14/06
WANGENGINC 555101.GPJ WANGENG.GDT 4/20/06

CONTRACT NO. 60A70

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	53
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

Wang Engineering, INC.
Consulting Geotechnical and Environmental Engineers
wangeng3@wangeng.com
1145 Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG SB08-01

WEI Job No.: 555-11-01

Client: **Illinois Department of Transportation**
Project: **I-55 Reconstuction**
Location: **Will County, IL**

Datum: NGVD
Elevation: 579.41 ft
North: 1769244.94 ft
East: 1024308.23 ft
Station: 354+59.25
Offset: 17.81 RT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	N Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	579.41								
	579.1	4-Inch thick ASPHALT							
	578.6	6-Inch thick CRUSHED STONE --BASE COURSE--							
	577.7	Medium dense, brown gravelly SAND --FILL--			1	5 10 11		3.00 P	11
		Very stiff, brown and black CLAY to CLAY LOAM --BURIED TOPSOIL--	5		2	3 6 9		2.50 P	31
	573.9	Medium dense to very dense, brown, gravelly SILTY LOAM: weathered bedrock			3	11 11 15		NP	15
					4	3 28 50/3		NP	10
	569.4	--AUGER REFUSAL--	10						
		Boring terminated at 10.00 ft							
			15						
			20						

GENERAL NOTES

Begin Drilling: **03-27-2006** Complete Drilling: **03-27-2006**
Drilling Contractor: **Precon Drilling** Drill Rig: **CME-75 ATV**
Driller: **J&S** Logger: **K. Jacob** Checked by: **CTF**
Drilling Method: **3.25 IDA HSA, Boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **DRY**
At Completion of Drilling: **DRY**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

Wang Engineering, INC.
Consulting Geotechnical and Environmental Engineers
wangeng3@wangeng.com
1145 Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG SB08-02

WEI Job No.: 555-11-01

Client: **Illinois Department of Transportation**
Project: **I-55 Reconstuction**
Location: **Will County, IL**

Datum: NGVD
Elevation: 575.13 ft
North: 1769298.07 ft
East: 1024217.44 ft
Station: 354+64.61
Offset: 87.25 LT

Profile	Elevation (ft)	SOIL AND ROCK DESCRIPTION	Depth (ft)	Sample Type / recovery	Sample No.	SPT Values (blw/6 in)	N Values (blw/6 in)	Qu (tsf)	Moisture Content (%)
	575.13								
	574.8	4-inch thick, brown CLAY LOAM --TOPSOIL--							
		Medium dense, brown SANDY LOAM			1	4 12 10		NP	9
	572.1	Very dense, brown, GRAVELLY SANDY LOAM with cobbles: weathered bedrock	5		2	5 21 50/2"		NP	11
	568.8	--AUGER REFUSAL--			3	50/4"		NP	6
		Boring terminated at 6.33 ft	10						
			15						
			20						

GENERAL NOTES

Begin Drilling: **03-21-2006** Complete Drilling: **03-21-2006**
Drilling Contractor: **Precon Drilling** Drill Rig: **CME-75 ATV**
Driller: **J & L** Logger: **S. Sugiarto** Checked by: **CTF**
Drilling Method: **3.25 IDA HSA, Boring backfilled upon completion**

WATER LEVEL DATA

While Drilling: **5.00 ft**
At Completion of Drilling: **4.00 ft**
Time After Drilling: **NA**
Depth to Water: **NA**

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

SHT. S-27 OF 27

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
FAI ROUTE 55 (I-80 TO U.S. 30)
SIGNING
WILL COUNTY

OVERHEAD SIGN STRUCTURES SOIL BORING LOGS STA. 354+55

SCALE:
DRAWN BY MDB
DATE 05/19/06
CHECKED BY MJK

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
CHICAGO, ILLINOIS

PLOT DATE = $DATE$
FILE NAME = $FILE$
PLOT SCALE = $SCALE$
USER NAME = $USER$

S:\SIGNING\2006\05-19\
S:\DOCUMENT\62261501\STRUCTV\DGN\BG2704M17.SHT
G:\ARCTAAZ
WANGENGINC 5551101.GPJ WANGENG.GDT 4/14/06

CONTRACT. NO.	SHEET NO.
60470	54

VERIFIED UTILITY INFORMATION

TEST HOLE #	SIZE & TYPE	NORTHING	EASTING	OFFSET	TOP OF UTILITY	EXISTING CUT	REFERENCE GROUND ELEVATION	COMMENTS
1	36" G	1761977.91	1021140.02	30.97' LT	588.40'	5.78'	594.18'	SUE QUALITY LEVEL "A"
2	36" G	1761442.74	1021158.57	28.65' LT	583.76'	7.80'	591.56'	SUE QUALITY LEVEL "A"
3	24" G	1761342.59	1021165.10	25.29' LT	585.29'	5.77'	591.06'	SUE QUALITY LEVEL "A"
4	36" G	1761311.69	1021168.82	22.55' LT	584.45'	6.60'	591.05'	SUE QUALITY LEVEL "A"
5	30" G	1761217.69	1021170.05	24.24' LT	583.81'	6.03'	589.84'	SUE QUALITY LEVEL "A"
6	36" G	1760961.17	1021177.66	24.58' LT	581.10'	6.45'	587.56'	SUE QUALITY LEVEL "A"
7	36" G	1760960.02	1021451.05	28.96' RT	581.72'	5.45'	587.17'	SUE QUALITY LEVEL "A"
8	36" G	1761476.94	1021438.16	32.12' RT	588.50'	3.80'	592.30'	SUE QUALITY LEVEL "A"
9	30" G	1761502.81	1021498.60	93.34' RT	587.35'	6.32'	593.67'	SUE QUALITY LEVEL "A"
10	36" G	1761565.03	1021437.19	33.89' RT	586.18'	6.56'	592.74'	SUE QUALITY LEVEL "A"
11	24" G	1761620.42	1021437.02	35.44' RT	587.24'	6.48'	593.72'	SUE QUALITY LEVEL "A"
12	36" G	1761724.77	1021430.72	32.38' RT	585.79'	7.79'	593.57'	SUE QUALITY LEVEL "A"
13	36" G	1762033.48	1021427.22	35.74' RT	582.33'	11.82'	594.15'	SUE QUALITY LEVEL "A"
14	36" G	1764930.49	1021304.11	76.43' RT	576.62'	7.58'	584.20'	SUE QUALITY LEVEL "A"
15	36" G	1764892.83	1021316.93	88.20' RT	575.86'	9.18'	585.04'	SUE QUALITY LEVEL "A"
16	20" G	1764347.85	1021327.45	83.64' RT	583.13'	6.03'	589.16'	SUE QUALITY LEVEL "A"
17	42" G	1764997.02	1021191.01	34.79' LT,	575.87'	7.42'	583.29'	SUE QUALITY LEVEL "A"
18	40" G	1764968.48	1021190.20	36.39' LT	578.66'	4.85'	583.51'	SUE QUALITY LEVEL "A"
19	24" G	1764412.46	1021208.28	33.70' LT	581.30'	5.83'	587.13'	SUE QUALITY LEVEL "A"
20	36" G	1761929.14	1020284.46	886.41' LT	587.94'	4.36'	592.30'	SUE QUALITY LEVEL "A"
21	36" G	1761113.92	1020837.27	358.93' LT	585.00'	3.99'	588.99'	SUE QUALITY LEVEL "A"
22	24" G	1761070.06	1020865.93	331.66' LT	584.19'	4.36'	588.55'	SUE QUALITY LEVEL "A"
23	36" G	1761033.53	1020896.84	301.92' LT	584.14'	4.01'	588.15'	SUE QUALITY LEVEL "A"
24	30" G	1760973.03	1020934.20	266.48' LT	583.97'	4.14'	588.11'	SUE QUALITY LEVEL "A"
25	36" G	1760931.81	1020970.94	231.05' LT	584.58'	3.48'	588.06'	SUE QUALITY LEVEL "A"
26	SEE NOTE G	1761558.07	1021554.22	152.28' RT	590.54'	3.36'	593.90'	SUE QUALITY LEVEL "A"
27	30" G	1761607.88	1021535.48	135.12' RT	590.48'	4.26'	594.74'	SUE QUALITY LEVEL "A"
28	SEE NOTE G	1761643.16	1021517.84	118.60' RT	586.00'	9.44'	595.44'	SUE QUALITY LEVEL "A"
29	24" G	1761708.92	1021492.06	94.90' RT	590.37'	4.86'	595.23'	SUE QUALITY LEVEL "A"
30	SEE NOTE G	1761763.53	1021469.32	73.89' RT	586.90'	8.79'	595.69'	SUE QUALITY LEVEL "A"

VERIFIED UTILITY INFORMATION

TEST HOLE #	SIZE & TYPE	NORTHING	EASTING	EXISTING TOP ELEVATION	EXISTING CUT ELEVATION	REFERENCE ELEVATION	COMMENTS

NOTES

TH#17, 18 & 19 According to record drawings, the gas main under College St. is placed in a casing.
TH#26 Unable to expose utility due to water, but were able to probe to feel utility.
TH#28 Unable to expose utility due to mud and water, but were able to probe to feel utility.
TH#30 Unable to expose utility due to hard clay, but were able to probe to feel utility.

ALL INFORMATION SHOWN WAS OBTAINED FROM A LOCATION SURVEY. OFFSETS AND STATIONS ARE IN RELATION TO THE BASELINE OF SURVEY.

Illinois Department of Transportation

Contract Number: 60470
Work Order No. 132,142,158,229
Shorewood, IL (Will County)
TBE Project No.: IL09500132, 142, 158, 229

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
1/20/06	SRT																

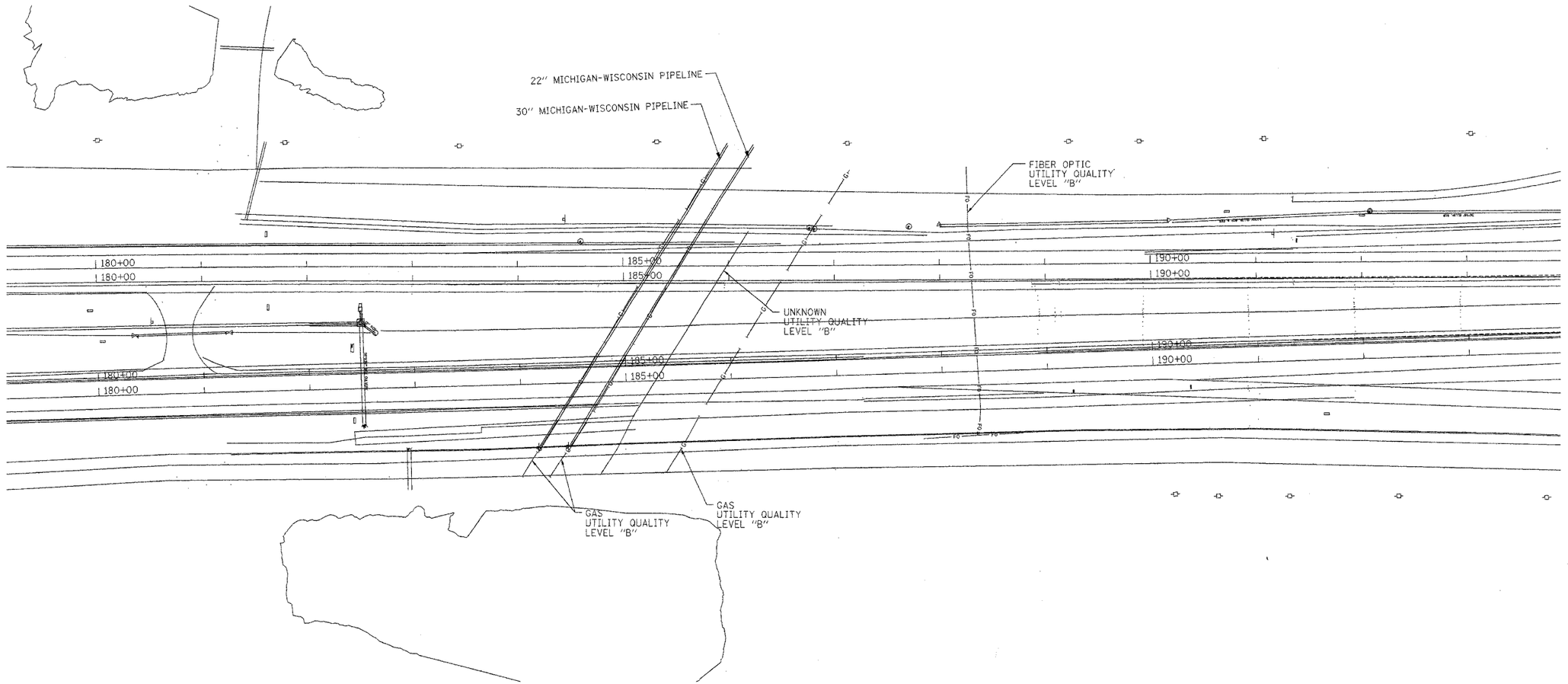
TBE GROUP, INC.
SOUTHERN REGION: FL, GA, SC, NC
NORTHERN REGION: IL, IN, MI, OH, MD, NJ, NY
PA, VA, CANADA
WESTERN REGION: AZ, NV, NM, TX, CA, OR, UT, WA

VERIFIED UTILITY LOCATIONS

2

IL09500245_SH5.dgn 01/20/2006 10:46:53 AM

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062I	WIII	92	55
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TBE GROUP, INC.
CIVIL ENGINEERING * TRANSPORTATION * ENVIRONMENTAL
* PLANNING * UTILITY ENGINEERING/LOCATING

IL09500132, 142, 158, 229, 245
TBE SUE PAGE NO: 5 of 29
Checked by: Sda Ae es PE

Utility Quality Level "A" : Test Holes
Utility Quality Level "B" : Designating

FORCE MAIN
TELEPHONE
WATER
GAS
CABLE TELEVISION
FIBER OPTIC
ELECTRIC
TEST HOLE

The SBC locations depicted have been obtained through the application of geophysical methods to determine the existence and approximate horizontal position of these facilities. However, SBC will not provide TBE Group, Inc. with utility records nor allow access to their field closures (pedestals/manholes etc.), to help verify the locations of their existing underground facilities. Therefore, TBE is unable to verify the completeness of the SBC locations depicted in accordance with the CI/ASCE Standard 38-02.

Utilities shown on these plans as depicted in the legend have been investigated by TBE Group, Inc in accordance with SUE Industry Standards. All other information shown has been provided to TBE Group, Inc by others. Changes to utilities after dates shown may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

205 W. WACKER DRIVE
SUITE 1020
CHICAGO, IL 60606
(312) 704-1970

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUE Investigation of Underground Utilities

I-55/I-80 from US RT. 30 to Weber Road
Section No. 99 (1&2) WRS-1
Contract No. 62895 and 62896
WIII County

DRAWN BY : KLC
SCALE : 1" = 50'
SQL "B" DATE : 1/17/06

SIGN STA. 189+70 N.B.

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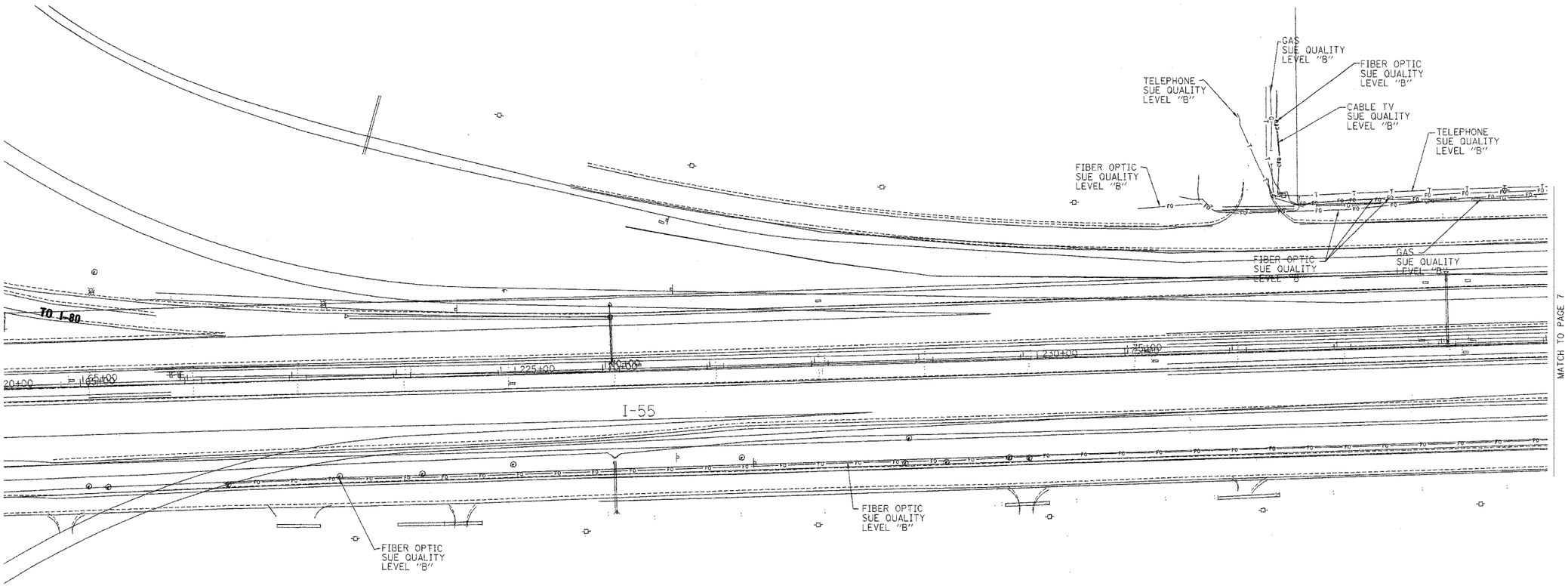
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062I	Will	72	56
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TBE GROUP, INC.
CIVIL ENGINEERING * TRANSPORTATION * ENVIRONMENTAL * PLANNING * UTILITY ENGINEERING/LOCATING

IL09500132, 142, 158, 229, 245
TBE SUE PAGE NO: 6 of 29
Checked by: SdeA

Utility Quality Level "A" : Test Holes
Utility Quality Level "B" : Designating

- FORCE MAIN
- TELEPHONE
- WATER
- GAS
- CABLE TELEVISION
- FIBER OPTIC
- ELECTRIC
- TEST HOLE

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205 W. WACKER DRIVE
SUITE 1020
CHICAGO, IL 60606
(312) 704-1970

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUE Investigation of Underground Utilities

I-55/I-80 from US RT. 30 to Weber Road
Section No. 99 (1&2) WRS-1
Contract No. 62895 and 62896
Will County

SQL "A" DATE : 4/04/05 DRAWN BY : KLC
SQL "B" DATE : 1/13/03 SCALE : 1" = 50'

SIGN STA. 229+76 S.B.

IL09500245_SH6.dgn 01/20/2006 10:48:27 AM

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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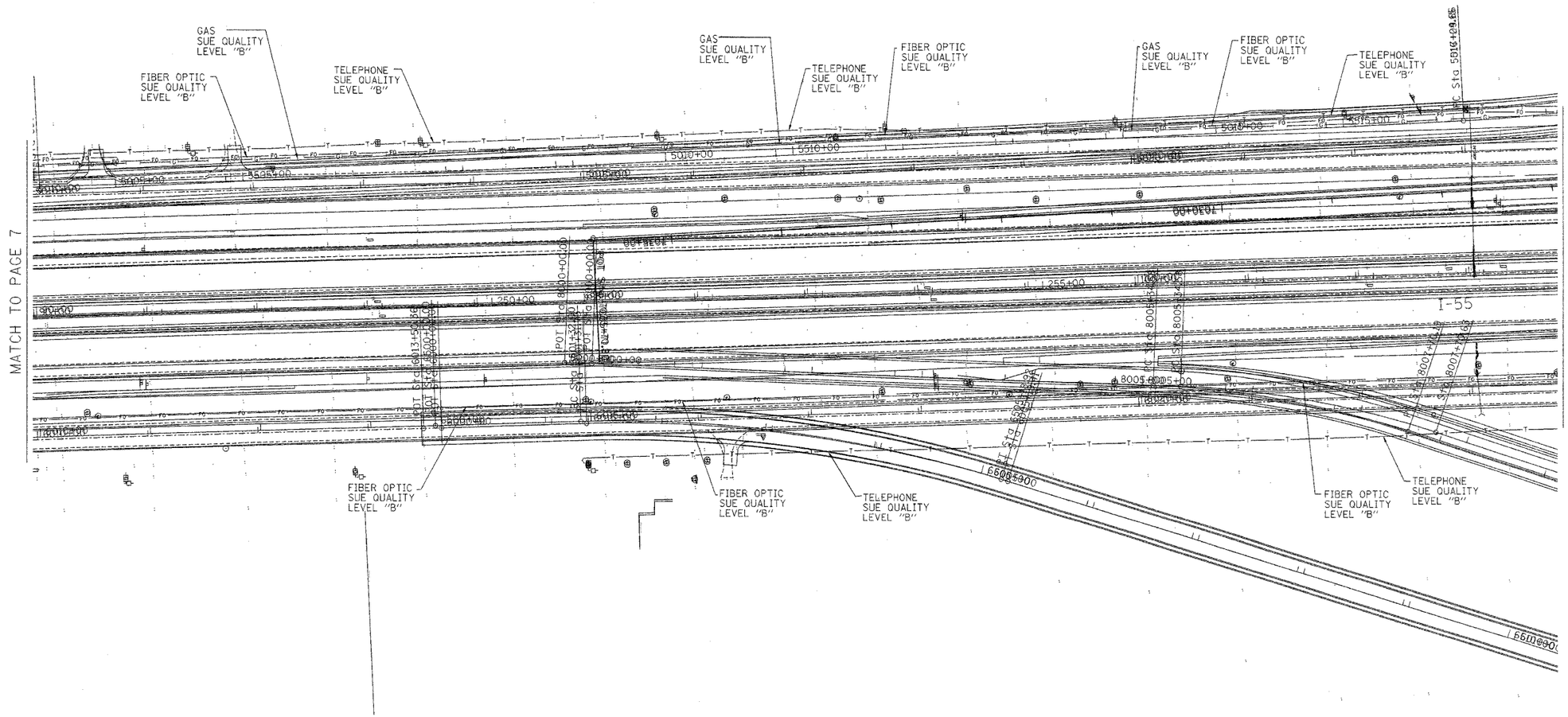
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



TBE GROUP, INC.
CIVIL ENGINEERING * TRANSPORTATION * ENVIRONMENTAL * PLANNING * UTILITY ENGINEERING-LOCATING

IL09500132, 142, 158, 229, 245
TBE SUE PAGE NO: 8 of 29
Checked by: Sandra Zamora

Utility Quality Level "A" : Test Holes
Utility Quality Level "B" : Designating

- FORCE MAIN
- TELEPHONE
- WATER
- GAS
- CABLE TELEVISION
- FIBER OPTIC
- ELECTRIC
- TEST HOLE

The SBC locations depicted have been obtained through the application of geophysical methods to determine the existence and approximate horizontal position of these facilities. However, SBC will not provide TBE Group, Inc. with utility records nor allow access to their field closures (pedestals/manholes etc.), to help verify the locations of their existing underground facilities. Therefore, TBE is unable to verify the completeness of the SBC locations depicted in accordance with the CI/ASCE Standard 38-02.

Utilities shown on these plans as depicted in the legend have been investigated by TBE Group, Inc in accordance with SUE Industry Standards. All other information shown has been provided to TBE Group, Inc by others. Changes to utilities after dates shown may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

205 W. WACKER DRIVE
SUITE 1020
CHICAGO, IL 60606
(312) 704-1970

REVISIONS NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

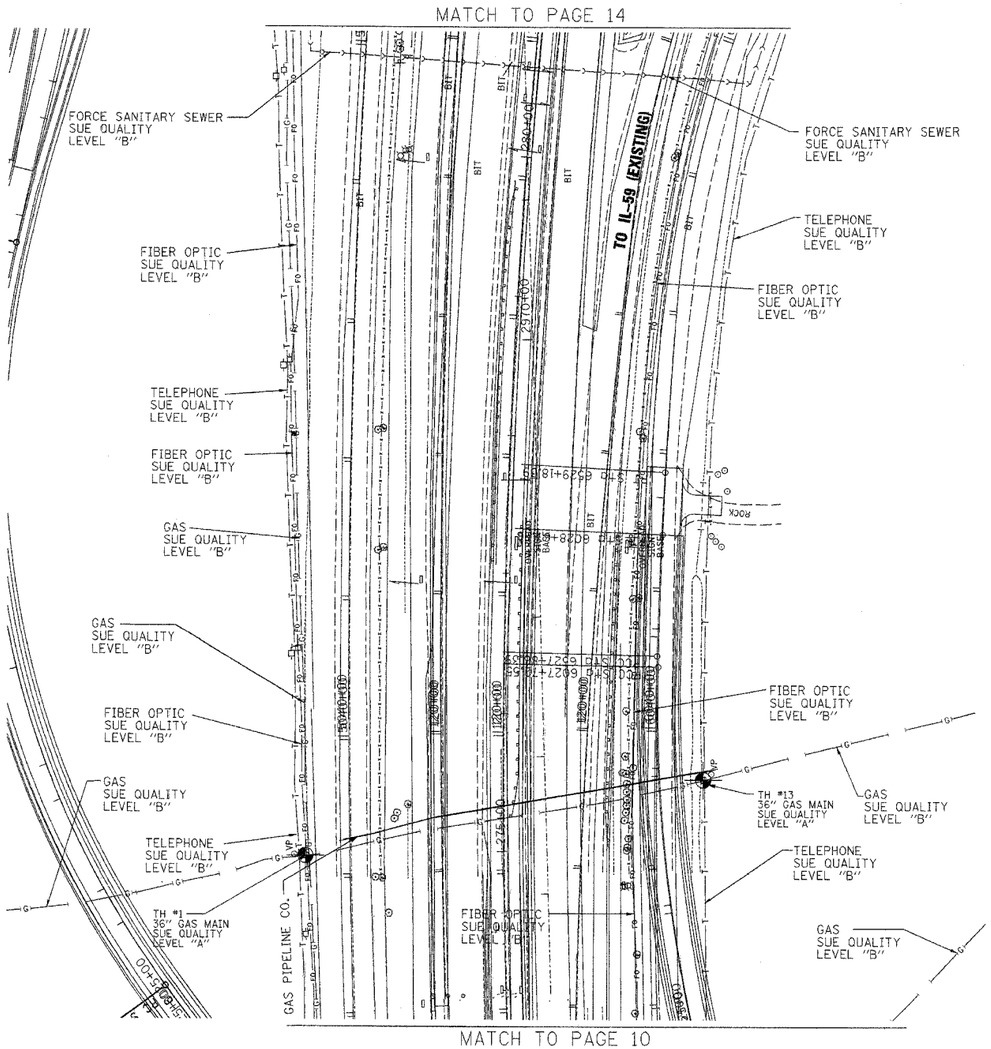
SUE Investigation of Underground Utilities

I-55/I-80 from US RT. 30 to Weber Road
Section No. 99 (1&2) WRS-1
Contract No. 62895 and 62896
Will County

DRAWN BY : KLC
SCALE : 1" = 50'
SQL "B" DATE : 1/13/03

STA. 248 + 22 N.B.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062I	WILL	72	58
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



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TBE GROUP, INC.
CIVIL ENGINEERING * TRANSPORTATION * ENVIRONMENTAL * PLANNING * UTILITY ENGINEERING/LOCATING

IL09500132, 142, 158, 229, 245
TBE SUE PAGE NO: 11 of 29
Checked by: Sandra Perez PE

Utility Quality Level "A" : Test Holes
Utility Quality Level "B" : Designating

- FORCE MAIN
- TELEPHONE
- WATER
- GAS
- CABLE TELEVISION
- FIBER OPTIC
- ELECTRIC
- TEST HOLE

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205 W. WACKER DRIVE
SUITE 1020
CHICAGO, IL 60606
(312) 704-1970

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUE Investigation of Underground Utilities

I-55/I-80 from US RT. 30 to Weber Road
Section No. 99 (1&2) WRS-1
Contract No. 62895 and 62896
Will County

SQL "A" DATE : 1/04/05
SQL "B" DATE : 1/13/03
DRAWN BY : KLC
SCALE : 1" = 50'

SISN STA. 227+45 N.B.

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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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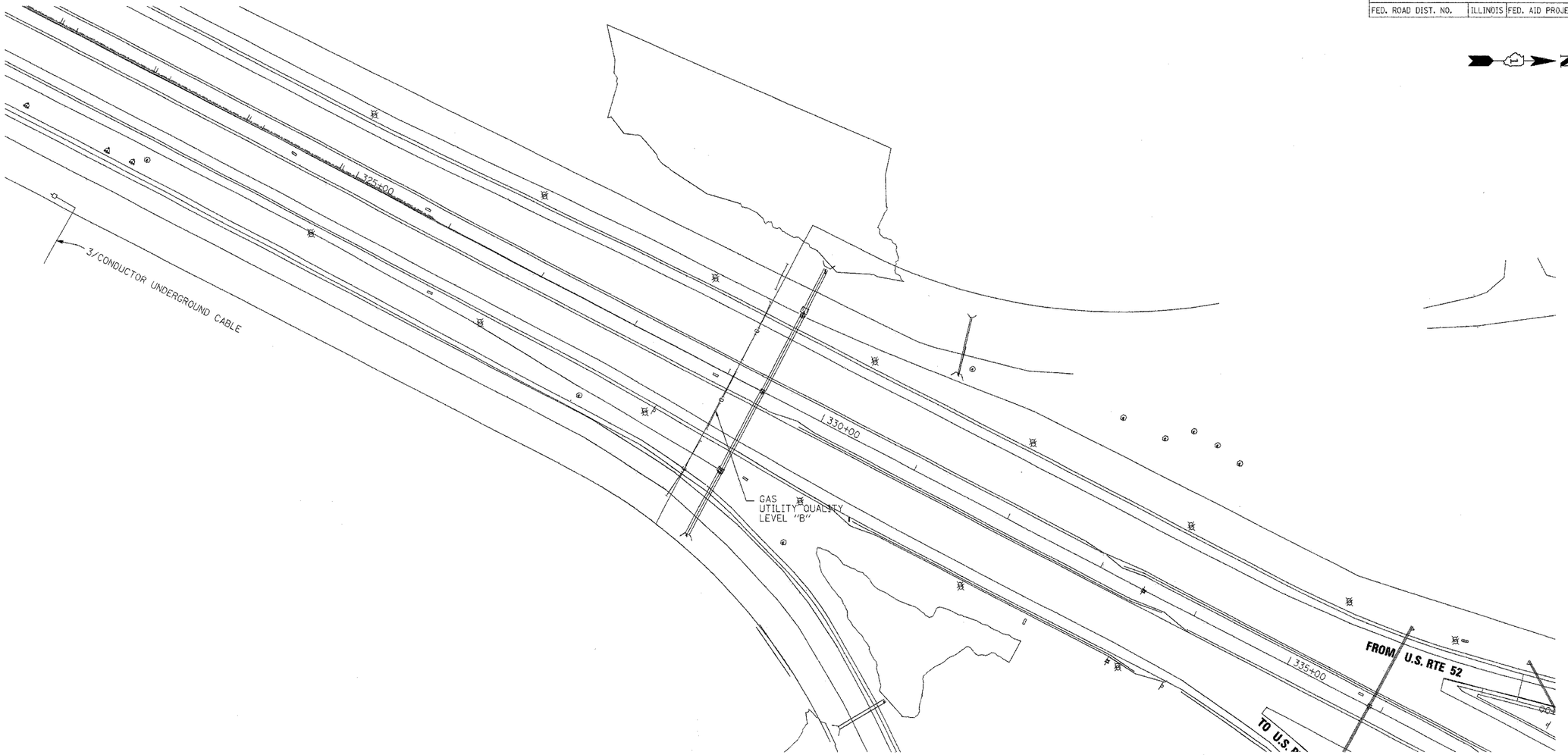
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TBE GROUP, INC.
CIVIL ENGINEERING * TRANSPORTATION * ENVIRONMENTAL
* PLANNING * UTILITY ENGINEERING/LOCATING

IL09500132, 142, 158, 229, 245
TBE SUE PAGE NO: 20 of 29
Checked by: Sadie Klotz 05

Utility Quality Level "A" : Test Holes
Utility Quality Level "B" : Designating

- FORCE MAIN
- TELEPHONE
- WATER
- GAS
- CABLE TELEVISION
- FIBER OPTIC
- ELECTRIC
- TEST HOLE

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Utilities shown on these plans as depicted in the legend have been investigated by TBE Group, Inc in accordance with SUE Industry Standards. All other information shown has been provided to TBE Group, Inc by others. Changes to utilities after dates shown may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

205 W. WACKER DRIVE
SUITE 1020
CHICAGO, IL 60606
(312) 704-1970

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

SUE Investigation of Underground Utilities

I-55/I-80 from US RT. 30 to Weber Road
Section No. 99 (1&2) WRS-1
Contract No. 62896 and 62896
WIII County

SQL "B" DATE : 1/17/06

DRAWN BY : KLC
SCALE : 1" = 50'

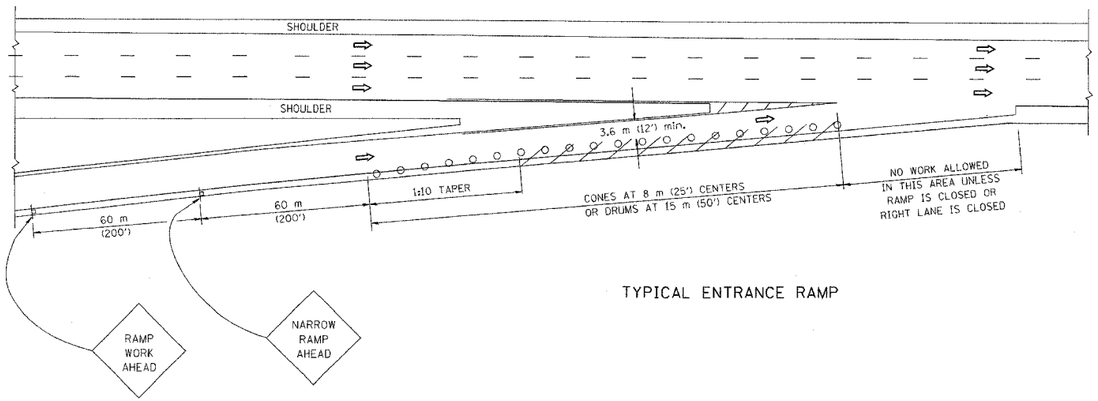
S16U STA. 333+75 N.B.

CREATED: 03-23-95

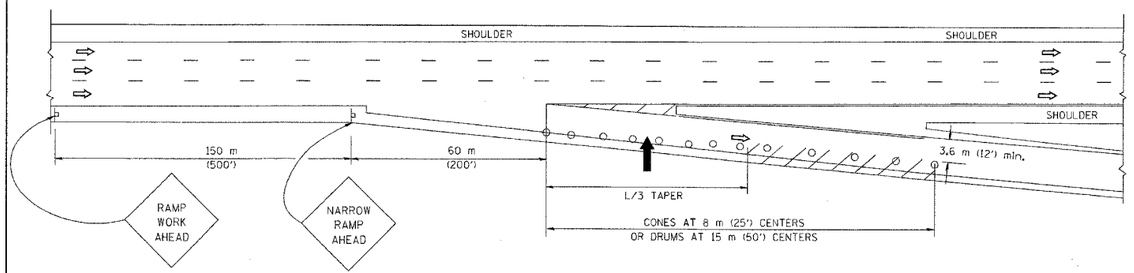
CONTRACT NO. 60A70

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	60
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

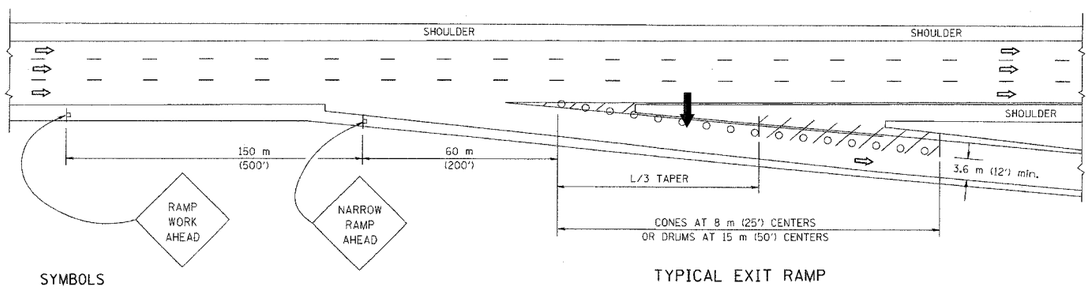
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP

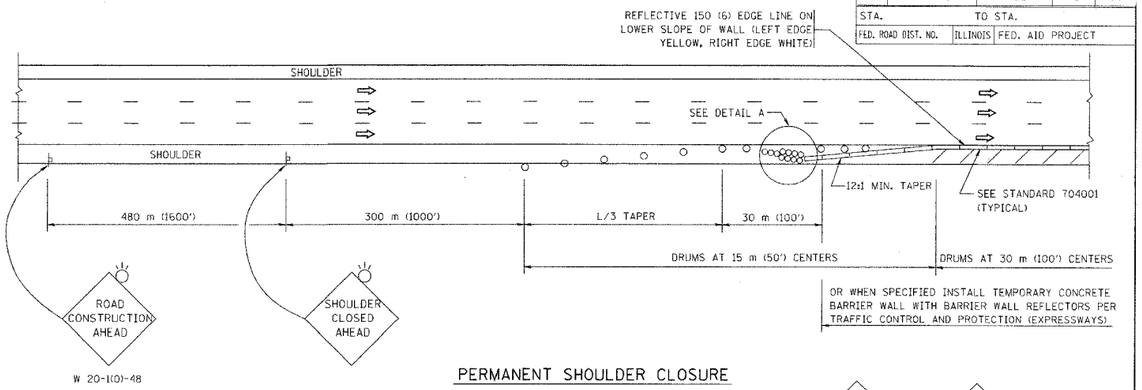


TYPICAL EXIT RAMP

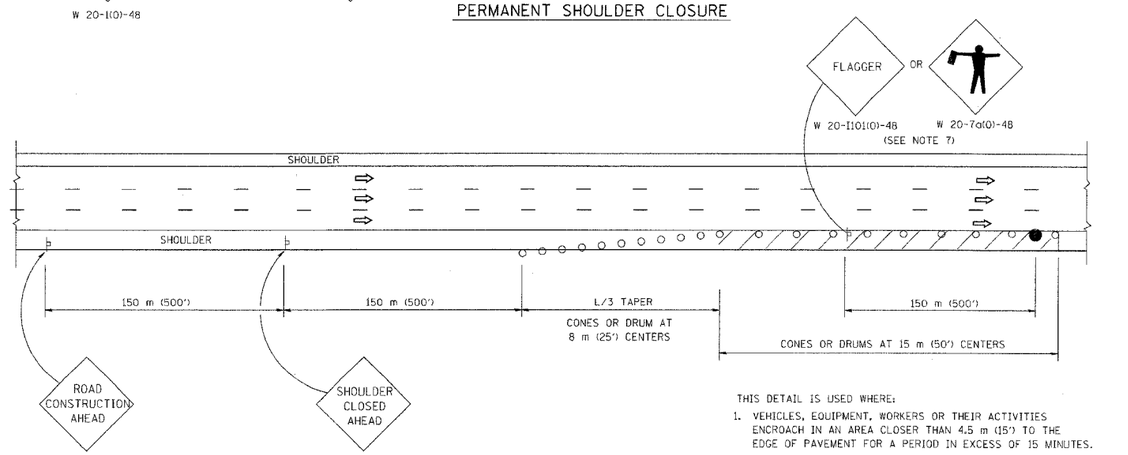
SYMBOLS

- ARROWBOARD
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- CONES - 700 (28) IN HEIGHT

SHOULDER CLOSURE DETAILS



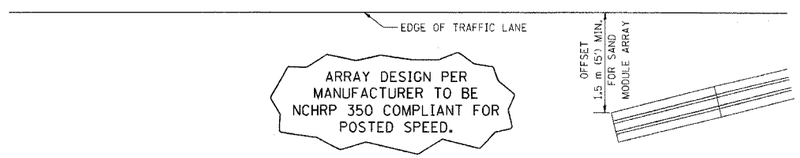
PERMANENT SHOULDER CLOSURE



THIS DETAIL IS USED WHERE:

1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH IN AN AREA CLOSER THAN 4.5 m (15') TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.

DAYTIME SHOULDER CLOSURE



DETAIL "A"
IMPACT ATTENTUATOR, TEMPORARY
(SEE NOTE 5)

GENERAL NOTES

1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS	
	METRIC	ENGLISH
80 km/h (45 mph) OR GREATER:	L=0.65(W)(S)	L=(W)(S)

W = WIDTH OF OFFSET IN METERS (FEET)
S = NORMAL POSTED SPEED KM/H (MPH)

2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.
5. THE IMPACT ATTENTUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE "TRAFFIC BARRIER TERMINAL, TYPE III, TEMPORARY" DEVICE TO MEET NCHRP350 FOR POSTED SPEED.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
   a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
   b. THE WORK AVTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.

   THE FLAGGER SHALL BE STATIONED APPROXIMATELY 30 m (100') TO 60 m (200') IN ADVANCE OF THE WORKERS.

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

REVISIONS	
NAME	DATE
DWS	11/96
JAF	12/02
NCHRP 350	04/03
JAF	2/06

ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES PARTIAL RAMP CLOSURES

DESIGNED BY: DWS
DRAWN BY
CHECKED BY
SCALE: NONE
DATE: 3/1/2006

TC-17

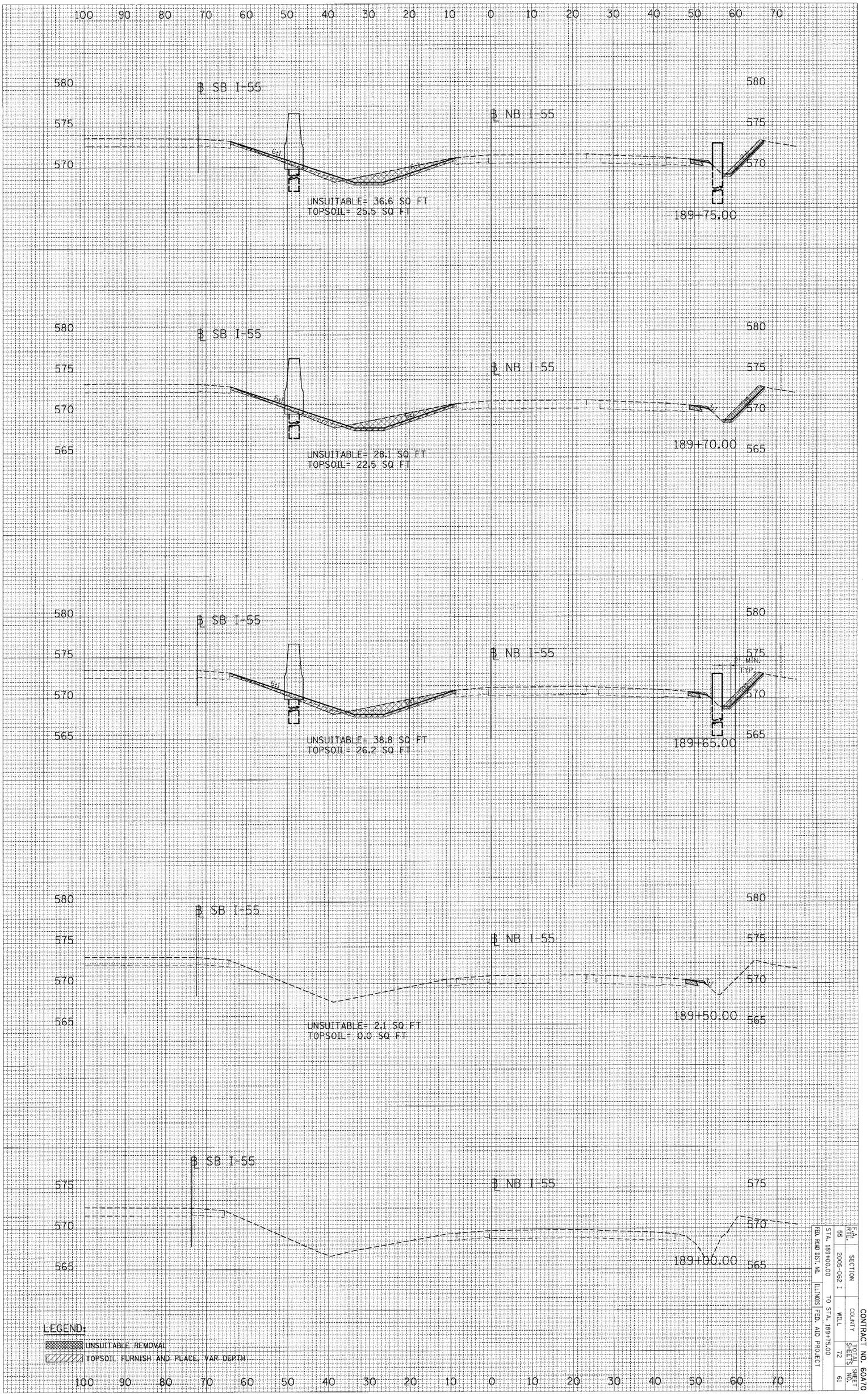
REVISION DATE: 02/28/06

PLOT DATE = 3/1/2006
FILE NAME = K:\dist6sh\tc17.dgn
PLOT SCALE = 50.0000 '/ IN.
USER NAME = keyes

PLOT DATE = #DATE#
FILE NAME = #FILEL#
PLOT SCALE = #SCALE#
USER NAME = #USER#

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

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



I-55 CROSS-SECTIONS

FED. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	61

FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

STA. 189+00.00 TO STA. 189+75.00

CONTRACT NO. 60A70

CONTRACT NO. 60A70

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	62
STA. 190+00.00		TO STA. 194+00.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = $DATE$
FILE NAME = $FILE$
PLOT SCALE = $SCALE$
USER NAME = $USER$

℄ NB I-55
194+00.00
193+00.00
192+00.00
191+00.00
190+00.00

℄ SB I-55

UNSUITABLE= 1.1 SQ FT
TOPSOIL= 1.2 SQ FT

UNSUITABLE= 1.1 SQ FT
TOPSOIL= 0.9 SQ FT

UNSUITABLE= 1.1 SQ FT
TOPSOIL= 0.8 SQ FT

UNSUITABLE= 1.1 SQ FT
TOPSOIL= 1.2 SQ FT

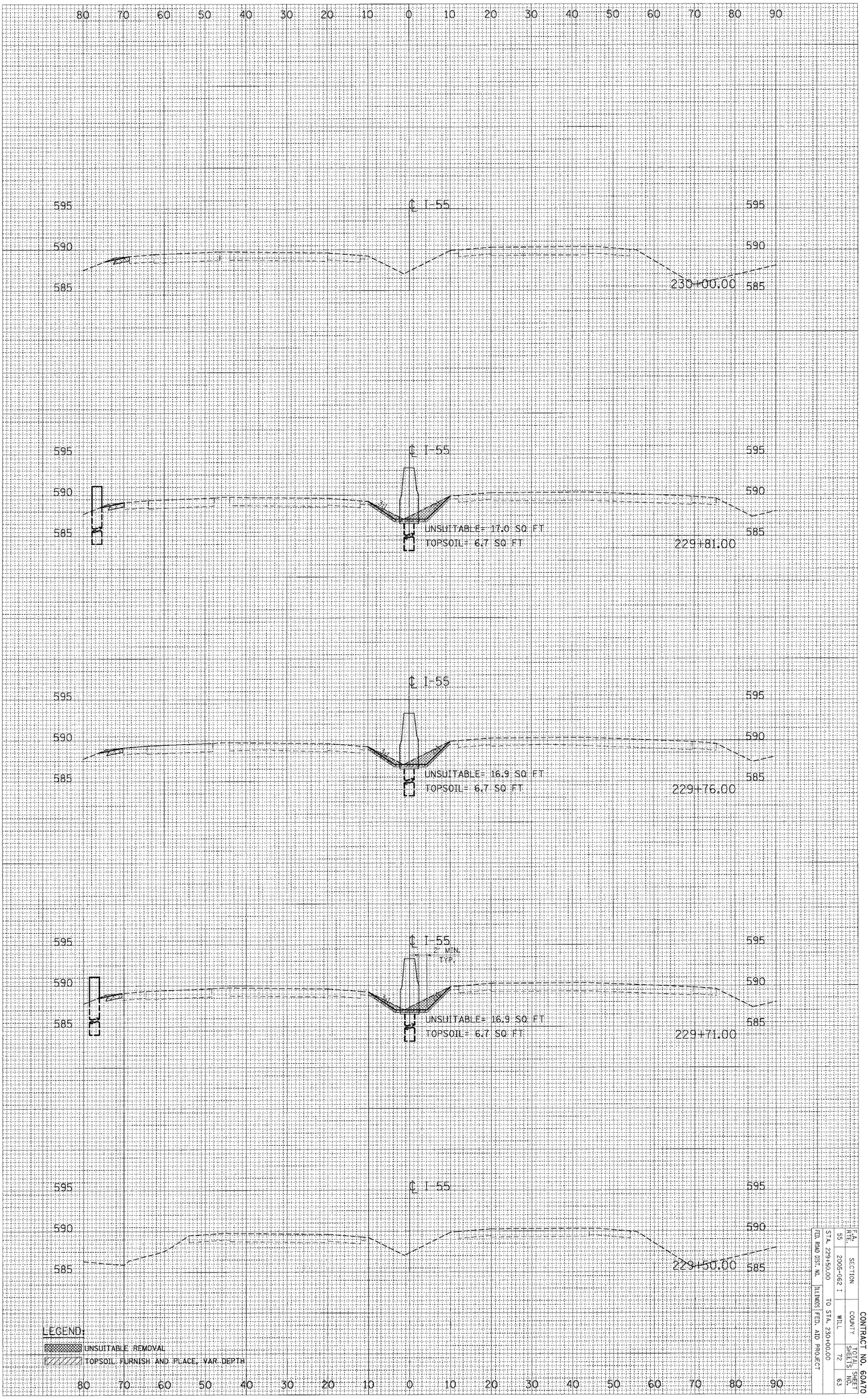
LEGEND:
UNSUITABLE REMOVAL
TOPSOIL FURNISH AND PLACE, VAR DEPTH

I-55 CROSS-SECTIONS

PLOT DATE = $DATE$
FILE NAME = $FILEL$
PLOT SCALE = $SCALE$
USER NAME = $USER$

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

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



I-55 CROSS-SECTIONS

CONTRACT NO. 60A70

FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT				
STA. 229+50.00	TO STA. 230+00.00				
55	2005-062 I	WILL	72	63	
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	

CONTRACT NO. 60A70

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	64
STA. 230+50.00		TO STA. 233+00.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = $DATE$
FILE NAME = $FILE$
PLOT SCALE = $SCALE$
USER NAME = $USER$

233+00.00
232+50.00
232+00.00
231+50.00
230+50.00

℄ I-55

UNSUITABLE= 1.3 SQ FT
TOPSOIL = 0.3 SQ FT
UNSUITABLE= 2.2 SQ FT
TOPSOIL = 2.0 SQ FT
UNSUITABLE= 1.6 SQ FT
TOPSOIL = 0.6 SQ FT
UNSUITABLE= 1.6 SQ FT
TOPSOIL = 0.6 SQ FT

LEGEND:

UNSUITABLE REMOVAL

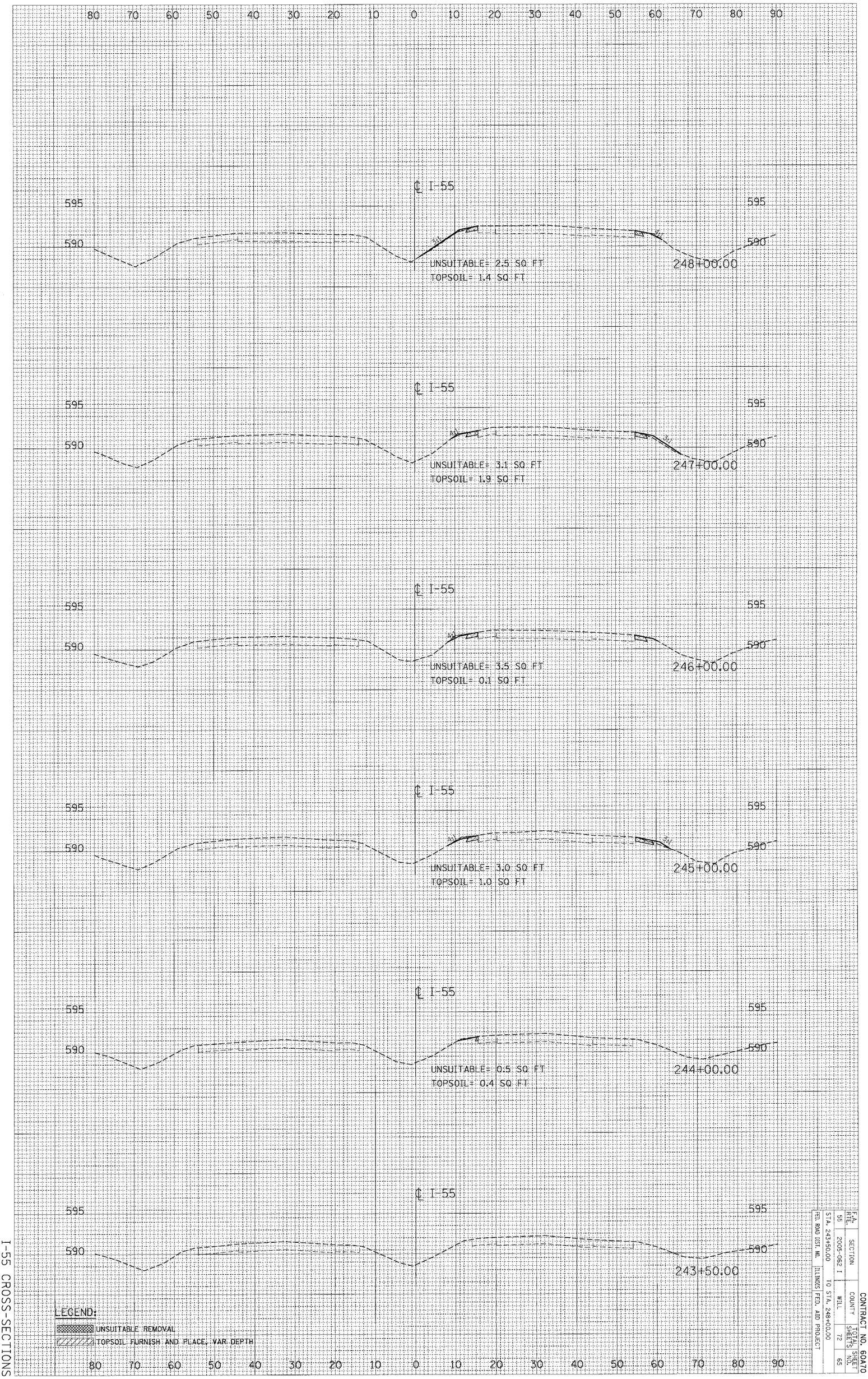
TOPSOIL FURNISH AND PLACE, VAR DEPTH

I-55 CROSS-SECTIONS

PLOT DATE = $DATE$
FILE NAME = $FILEL$
PLOT SCALE = $SCALE$
USER NAME = $USER$

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

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



I-55 CROSS-SECTIONS

CONTRACT NO. 60A70

F.A. RTE.	SECTION	TOTAL SHEETS	SHEET
55	2005-062 I		
	COUNTY		
	WILL	72	65

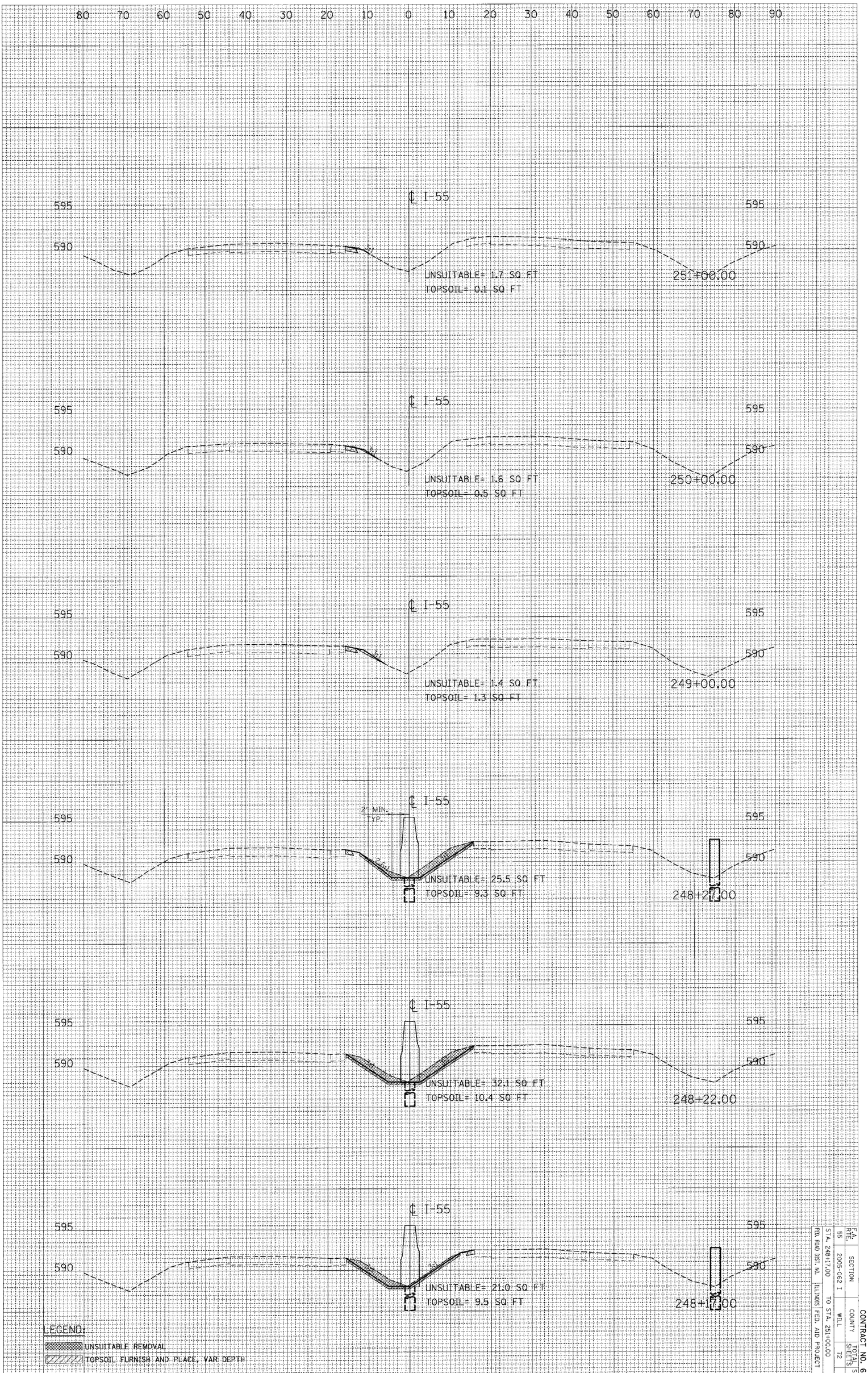
FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT

STA. 243+50.00 TO STA. 248+00.00

PLOT DATE = $DATE$
FILE NAME = $FILEL$
PLOT SCALE = $SCALE$
USER NAME = $USER$

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

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



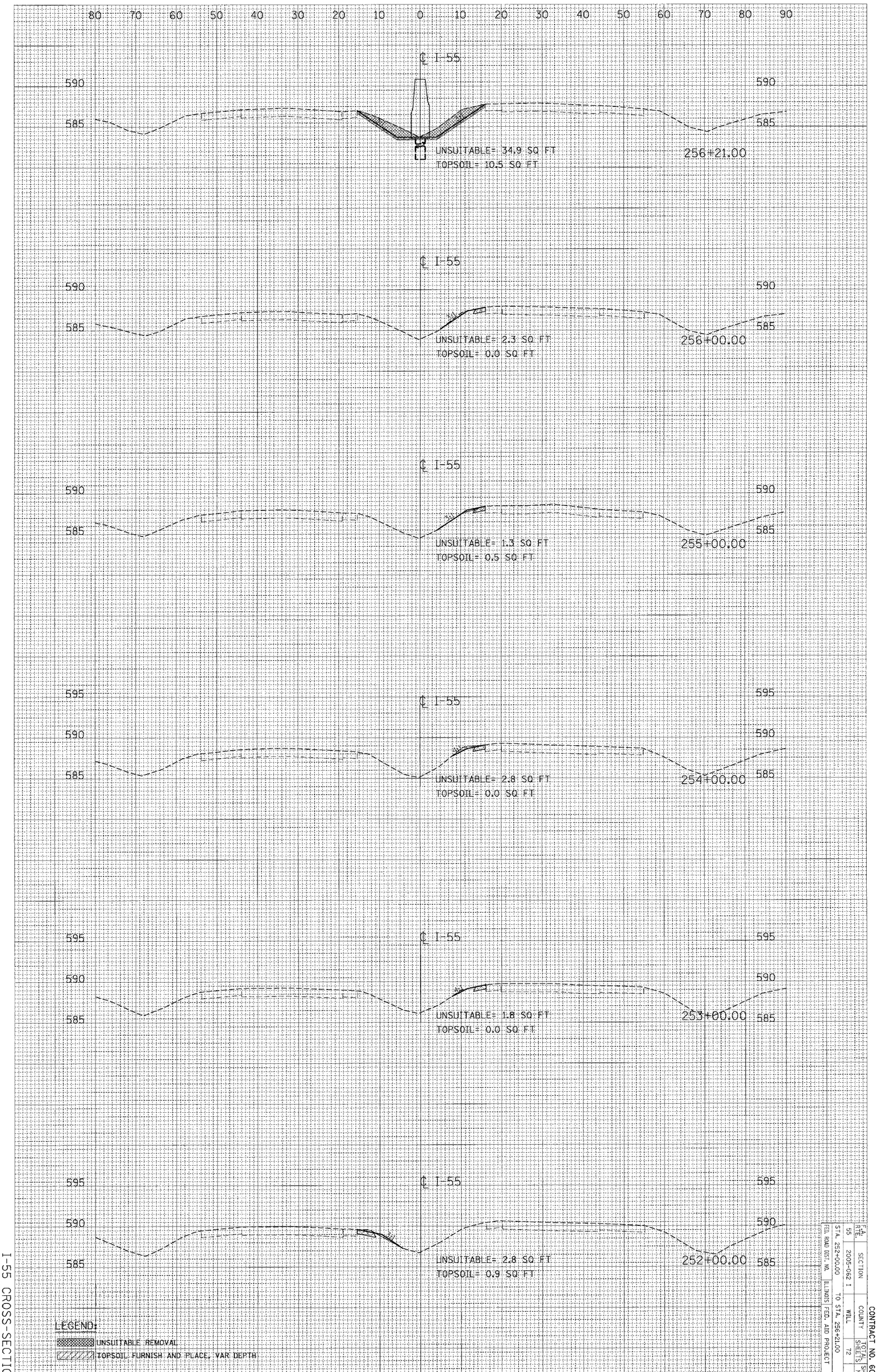
I-55 CROSS-SECTIONS

CONTRACT NO. 60A70					
FED. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
55	2905-062 I	WILL	72	66	
STA. 248+17.00	TO STA. 251+00.00				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT			

PLOT DATE = $DATE$
FILE NAME = $FILEL$
PLOT SCALE = $SCALE$
USER NAME = $USER$

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

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



LEGEND:

UNSUITABLE REMOVAL

TOPSOIL FURNISH AND PLACE, VAR DEPTH

I-55 CROSS-SECTIONS

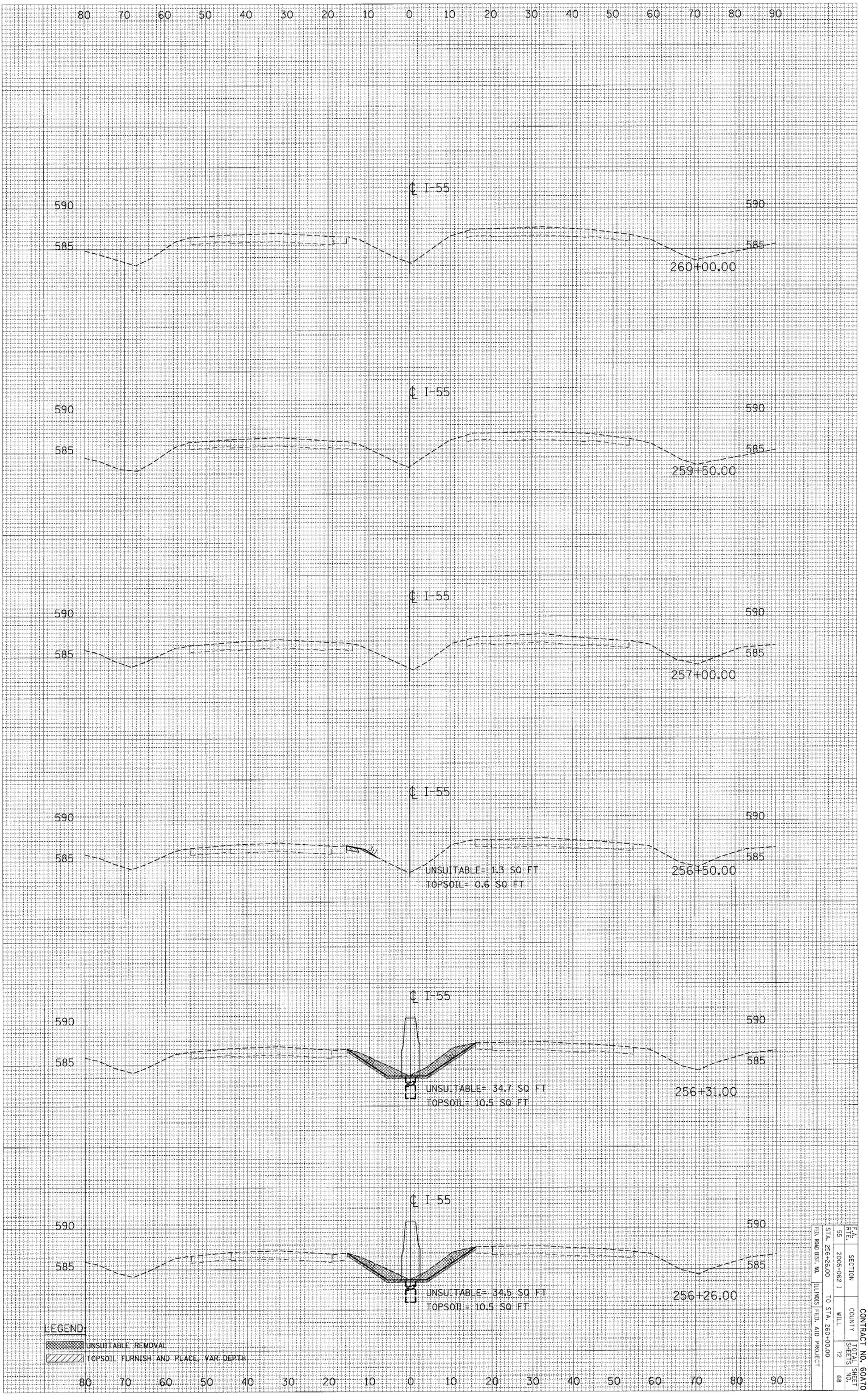
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
STA. 252+00.00	TO STA. 256+21.00			
55	2005-062 1	WILL	72	67
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.

CONTRACT NO. 60A70

PLOT DATE = $DATE$
FILE NAME = $FILEL$
PLOT SCALE = $SCALE$
USER NAME = $USER$

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

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



I-55 CROSS-SECTIONS

CONTRACT NO. 60A70

FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT
55	2005-062 I	
STA. 256+26.00	TO STA. 260+00.00	

SECTION	COUNTY	TOTAL SHEETS	SHEET
	WILL	72	68

CONTRACT NO. 60A70

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	69
STA. 260+50.00		TO STA. 277+50.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = $DATE$
FILE NAME = $FILE$
PLOT SCALE = $SCALE$
USER NAME = $USER6$

277+50.00
UNSUITABLE= 2.4 SQ.FT
TOPSOIL= 0.0 SQ.FT

277+45.00
UNSUITABLE= 2.4 SQ.FT
TOPSOIL= 0.0 SQ.FT

277+40.00
UNSUITABLE= 2.4 SQ.FT
TOPSOIL= 0.0 SQ.FT

277+00.00

261+00.00

260+50.00

LEGEND:
UNSUITABLE REMOVAL
TOPSOIL FURNISH AND PLACE, VAR DEPTH

I-55 CROSS-SECTIONS

CONTRACT NO. 60A70

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	70
STA. 278+00.00		TO STA. 337+00.00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

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

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

PLOT DATE = #DATE#
FILE NAME = #FILEL#
PLOT SCALE = #SCALE#
USER NAME = #USER#

337+00.00
UNSUITABLE= 1.0 SQ FT
TOPSOIL= 6.3 SQ FT

336+50.00

333+80.00
UNSUITABLE= 23.1 SQ FT
TOPSOIL= 7.7 SQ FT

333+75.00
UNSUITABLE= 20.4 SQ FT
TOPSOIL= 7.4 SQ FT

333+70.00
UNSUITABLE= 20.5 SQ FT
TOPSOIL= 7.4 SQ FT

278+00.00

℄ I-55

2' MIN. TYP.

LEGEND:

UNSUITABLE REMOVAL

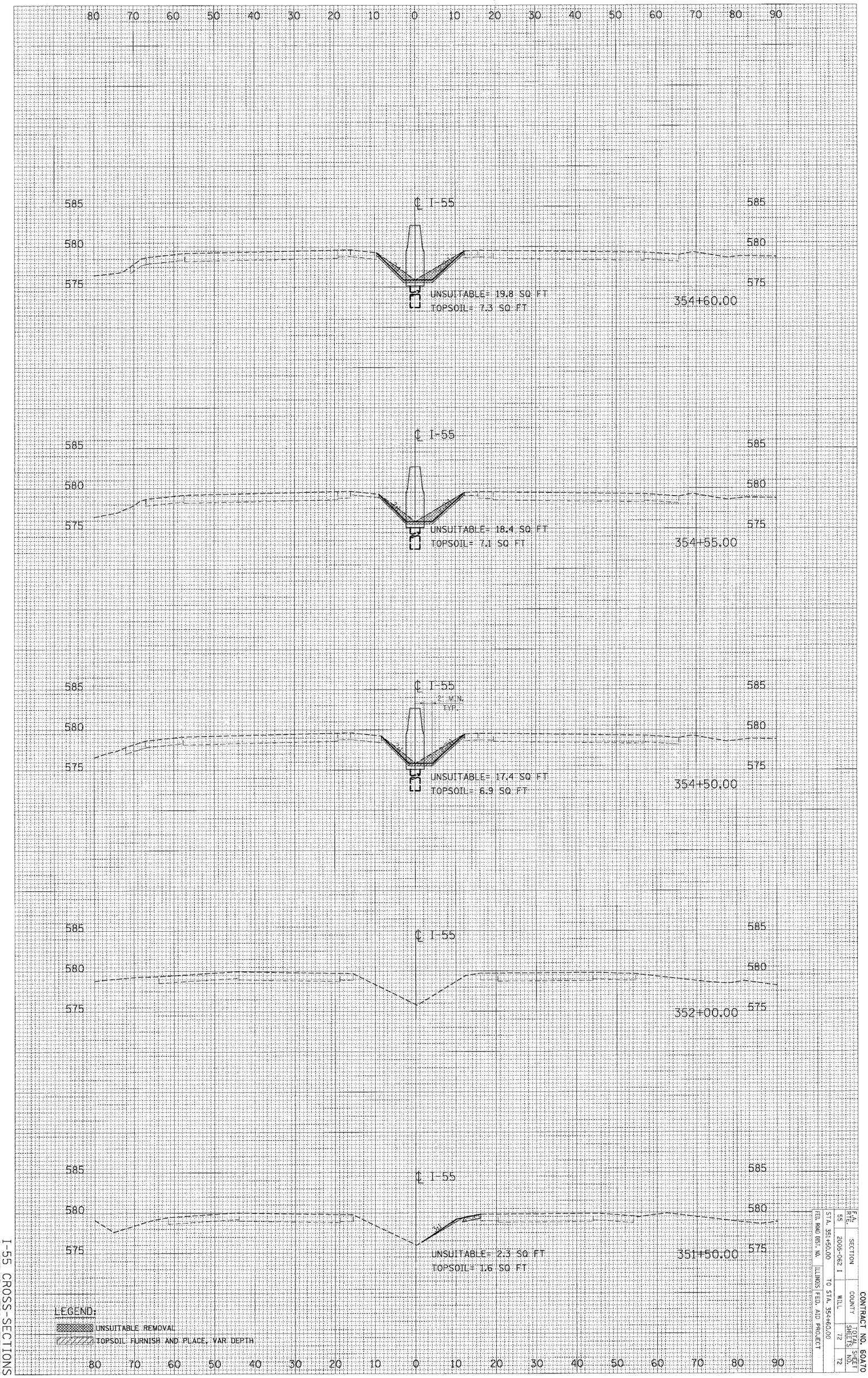
TOPSOIL FURNISH AND PLACE, VAR DEPTH

I-55 CROSS-SECTIONS

PLOT DATE = $DATE$
FILE NAME = $FILEL$
PLOT SCALE = $SCALE$
USER NAME = $USER$

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

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



I-55 CROSS-SECTIONS

FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		
STA. 351+50.00	TO STA. 354+60.00		
55	2005-062 1	WILL	72
F.A.S.	SECTION	COUNTY	SHEETS

CONTRACT NO. 60A70

SHEET NO.
72

CONTRACT NO. 60A70

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	2005-062 I	WILL	72	71
STA. 337+50.00		TO STA. 351+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

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

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

PLOT DATE = $DATE$
FILE NAME = $FILE$
PLOT SCALE = $SCALE$
USER NAME = $USER$

LEGEND:

UNSUITABLE REMOVAL

TOPSOIL FURNISH AND PLACE, VAR DEPTH

I-55 CROSS-SECTIONS