



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.IB-R	COOK	101	002
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62532				

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## HIGHWAY STANDARDS

STD. NO.	DESCRIPTION
000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
353001-04	PCC BASE COURSE WITH BITUMINOUS CONCRETE BINDER AND SURFACE COURSE
420001-07	PAVEMENT JOINTS
421001-02	BAR REINFORCEMENT FOR CRC PAVEMENT
442201-03	CLASS C AND D PATCHES
515001-03	NAME PLATE FOR BRIDGES
664001-02	CHAIN LINK FENCE
701101-02	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701301-03	LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS
701401-05	LANE CLOSURE, FREEWAY/ EXPRESSWAY
701446-01	TWO LANE CLOSURE FREEWAY/ EXPRESSWAY
701411-05	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS >= 45 MPH
701601-06	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701701-06	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-04	LANE CLOSURE, MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-01	TRAFFIC CONTROL DEVICES
704001-05	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-02	SIGN PANEL ERECTION DETAILS
720011-01	METAL POST FOR SIGNS, MARKERS AND DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 111TH STREET OVER  
 F.A.I ROUTE 57 (INTERSTATE 57)

### INDEX OF SHEETS & HIGHWAY STANDARDS

SCALE: N.T.S. DRAWN BY: BRH  
 DATE: 01/16/09 CHECKED BY: ACL

**TENG**  
TENG & ASSOCIATES, INC.  
 ENGINEERS/ARCHITECTS/PLANNERS  
 205 N. WICHITAN AVE. - CHICAGO, IL 60601  
 TELEPHONE: 312/616-0000

GENERAL NOTES

[ ] = INCLUDED IN THE COST OF

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "CUAN" (CHICAGO UTILITY ALERT NETWORK), 312-744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRICAL, TELEPHONE AND GAS FACILITIES. (48 HOURS NOTIFICATION IS REQUIRED).
2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF CHICAGO.
3. THE ATTENTION OF THE CONTRACTOR IS DIRECTED TO THE COMED CONDUITS ATTACHED TO THE BOTTOM OF 111TH BRIDGE DECKS. THE CONTRACTOR SHALL CONTACT CUAN FOR EXACT LOCATION OF THESE FACILITIES PRIOR TO ANY DIGGING IN THE ADJACENT AREA OR BRIDGE DECK DEMOLITION.
4. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
5. BARRICADES: WHEN APPLICABLE THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SANDBAGS ON EACH TYPE I OR TYPE II BARRICADE USED-ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL. ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR (4) SANDBAGS PER BARRICADE.
6. 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.
7. BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE DISTRICT ONE STANDARD BD32 INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED. BUTT JOINTS SHALL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE CONSIDERED INCLUDED IN THE UNIT COST OF HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH.
8. THE CONTRACTOR SHALL NOT USE CONCRETE MIXTURE PP-2 FOR ANY ROADWAY OR BRIDGE DECK CONCRETE PATCHING.
9. SURFACE ADJACENT TO RETAINING OR PARAPET WALLS AFFECTED BY THE RECONSTRUCTION SHALL BE SURFACED WITH BITUMINOUS AND SHALL BE PAID FOR AS INCIDENTAL BITUMINOUS SURFACING. THE COST OF ALL INCIDENTAL BITUMINOUS SURFACING SHALL INCLUDE ALL PREPARATION, EXCAVATION, CLEANUP, RESTORATION, REMOVAL AND SATISFACTORY DISPOSAL OF THE EXISTING SURFACE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL OVERHEAD, SURFACE, AND UNDERGROUND UTILITIES WITHIN THE PROJECT LIMITS WHETHER OR NOT THE UTILITIES ARE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED OR RELOCATED BY THE CONTRACTOR AT HIS/ HER OWN EXPENSE.
11. THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS WHICH WILL NOT BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTORS' OWN EXPENSE.
12. 3 METER (10 FEET) TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB & GUTTERS AND MEDIAN ITEMS OF WORK TO EXISTING CURBS & GUTTERS AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE CHICAGO TRANSIT AUTHORITY (CTA) AND SHOOP ACADEMY OF MATH, SCIENCE AND TECHNOLOGY ((773) 535-2715) 28 WORKING DAYS PRIOR TO START OF CONSTRUCTION IN ORDER TO REVIEW AND COORDINATE ANY CONFLICTS WITH BUS ROUTES.
14. STRIP REFLECTIVE CRACK CONTROL TREATMENT SHALL BE PLACED ON MILLED PCC PAVEMENT PRIOR TO BITUMINOUS OVERLAY ON THE EAST AND WEST FRONTAGE ROADS.
15. SPECIAL ATTENTION IS CALLED TO ARTICLE 107.12 REGARDING RAILROAD FLAGGERS. THE NAME AND TELEPHONE NUMBER OF THE RAILROAD ENGINEER IS MR. MIR ALI (847) 705-4248.
16. THE BITUMINOUS MATERIAL PRIME COAT QUANTITIES HAVE BEEN DETERMINED USING A RATE OF .0004 TONS/SQ YD.
17. SIDEWALK ACCESSIBILITY RAMPS SHALL NOT BE CONSTRUCTED DIRECTLY OVER EXISTING OR PROPOSED DRAINAGE STRUCTURES.
18. BACKFILL MATERIALS UNDER SIDEWALKS SHALL BE FA-2 AND WILL BE INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH.
19. AN ADDITIONAL QUANTITY (10) FOR NEW FRAMES AND LIDS TYPE 1 OPEN LID AND CLOSED LID HAS BEEN ADDED TO THE CONTRACT FOR EACH AND THE LOCATIONS ARE TO BE DETERMINED BY THE ENGINEER.
20. THE COST OF THE FULL DEPTH SAW CUT REQUIRED FOR PAVEMENT REMOVAL SHALL BE INCLUDED IN THE UNIT PRICE FOR PAVEMENT REMOVAL.
21. EXISTING MUDJACK REMOVAL BENEATH APPROACH PAVEMENTS SHALL BE INCLUDED IN THE COST OF APPROACH PAVEMENT REMOVAL.

22. THE PROPOSED BRIDGE APPROACH PAVEMENTS SHALL BE GROOVED AND THE QUANTITY MEASURED FOR PAYMENT AS BRIDGE DECK GROOVING.

23. THE CONTRACTOR SHALL BE RESPONSIBLE, AS PART OF THIS PROJECT, TO REMOVE, TEMPORARILY SUPPORT, PROTECT, AND REINSTALL THE EXISTING 911 CABLE DUCT OF THE CITY OF CHICAGO OFFICE OF EMERGENCY COMMUNICATIONS. THE EXISTING DUCT IS LOCATED UNDERNEATH THE BRIDGE DECK AS SHOWN ON THE STRUCTURAL PLANS. THIS SHALL BE APPLICABLE FOR THE ENTIRE DURATION OF CONSTRUCTION. THE CONTRACTOR SHALL REINSTALL THE DUCT IN ITS ORIGINAL POSITION UNDERNEATH THE DECK IN ACCORDANCE WITH THE APPROVAL OF THE ENGINEER AND THE REQUIREMENTS OF THE OFFICE OF EMERGENCY COMMUNICATIONS. THE DUCT PACKAGE HANDLING MAY INCLUDE ASBESTOS WHICH THE CONTRACTOR SHALL HANDLE PER CURRENT APPROVED ASBESTOS HANDLING PROCEDURES. THE CONTRACTOR SHALL ALSO SUPPLY AND INSTALL ALL NECESSARY HARDWARE, BRACKETS AND INSERTS IN THE NEW BRIDGE DECK TO ENABLE THE REINSTALLATION OF THE DUCT PACKAGE. CONTRACTOR TO PROVIDE THE DETAILS FOR DUCT TEMPORARY SUPPORT AND PROTECTION TO THE ENGINEER FOR APPROVAL PRIOR TO ANY CONSTRUCTION OR DECK REMOVAL. ANY DAMAGE TO THE DUCT SHALL BE REPLACED TO THE SATISFACTION OF THE ENGINEER AT THE EXPENSE OF THE CONTRACTOR. THE COST OF ALL OF THIS WORK, INCLUDING ALL MATERIALS, SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT COST OF REMOVAL OF EXISTING CONCRETE DECK.

24. SLIPFORMING OF THE PARAPETS IS NOT ALLOWED.

25. TREES ALONG HAMLET AVE BETWEEN 112TH PLACE TO 111TH STREET SHALL BE PROTECTED DURING CONSTRUCTION. IF ANY TREES ARE DAMAGED, THE CITY OF CHICAGO FORESTRY RESERVES THE RIGHT TO COLLECT FINES FROM THE CONTRACTOR FOR THE COST OF REPAIR, OR REMOVAL AND REPLACEMENT AND THE DIFFERENCE OF THE AFOREMENTIONED COSTS FROM THE TOTAL APPRAISED VALUE OF THE TREES IN QUESTION.

THE CONTRACTOR SHALL OBTAIN A PERMIT TO REMOVE, PLANT, TRIM, SPRAY, OR IN ANY WAY AFFECT THE GENERAL HEALTH OR STRUCTURE OF TREES IN THE PUBLIC WAY. THIS INCLUDES THE DISTURBANCE OR REMOVAL OF ROOT SYSTEMS OF EXISTING TREES WITHIN THE PROJECT AREA.

PERMITS FOR TREE RELATED ACTIVITIES WILL BE ISSUED TO INSURED TREE SERVICE COMPANIES BY THE BUREAU OF FORESTRY, 3200 SOUTH KEDZIE AVENUE, CHICAGO, IL 60613, (312) 747-2098.

26. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL FOR WHICH THE CONTRACT DOES NOT PROVIDE REMOVAL. THE REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 201 OF THE STANDARD SPECIFICATIONS AT THE CONTRACTOR'S EXPENSE.

27. THE CONTRACTOR MUST NOTIFY THE CHICAGO DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC (312) 744-0330, 72 HOURS BEFORE COMMENCING CONSTRUCTION OR CHANGING TRAFFIC FLOW.

28. ALL IMPROVEMENTS OR ITEMS TO BE REMOVED AND REPLACED DURING CONSTRUCTION SHOULD CONFORM TO THE CHICAGO'S CONSTRUCTION STANDARDS FOR WORK IN THE PUBLIC WAY MANUAL.

29. CURB AND GUTTER CONSTRUCTION SHALL PROVIDE A MINIMUM CURB HEIGHT 3" AND A MAXIMUM CURB HEIGHT OF 9" AT DRAINAGE STRUCTURES.

30. THE CONTRACTOR SHALL CALL STAN JONES LOCATED AT THE SOUTH DISTRICT SHOP OF PEOPLES ENERGY AT (773) 962-4841 AND DIGGER AT (312) 744-7000 AT LEAST 48 HOURS PRIOR TO START OF CONSTRUCTION. PEOPLES GAS WILL MARK LOCATIONS OF ALL GAS FACILITIES IN ADVANCE OF CONSTRUCTION. IN THE EVENT OF AN EMERGENCY CALL (312) 240-7001.

30. ALL PAVEMENT PATCHING SHALL BE CLASS C AT LOCATIONS DIRECTED BY THE ENGINEER.

31. THE CONTRACTOR SHALL MAINTAIN ACCESS CONTROL AT ALL TIMES DURING CONSTRUCTION. TEMPORARY FENCE SHALL BE PROVIDED TO MAINTAIN ACCESS CONTROL.

COMMITMENTS:

NONE

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.1B-R	COOK	101	003
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62532				

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
111TH STREET OVER  
F.A.I ROUTE 57 (INTERSTATE 57)

**GENERAL NOTES  
AND COMMITMENTS**

SCALE: NONE  
DATE: 01/16/09

DRAWN BY: BRH  
CHECKED BY: ACL

**TENG**  
TENG & ASSOCIATES, INC.  
ENGINEERS/ARCHITECTS/PLANNERS  
205 N. MICHIGAN AVE., CHICAGO, IL 60601  
TELEPHONE: 312/616-0900

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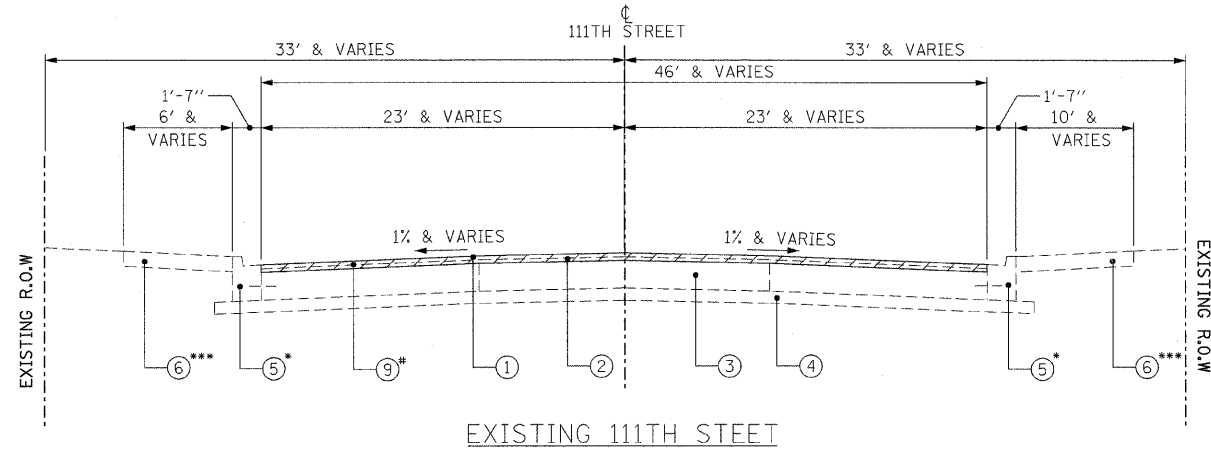








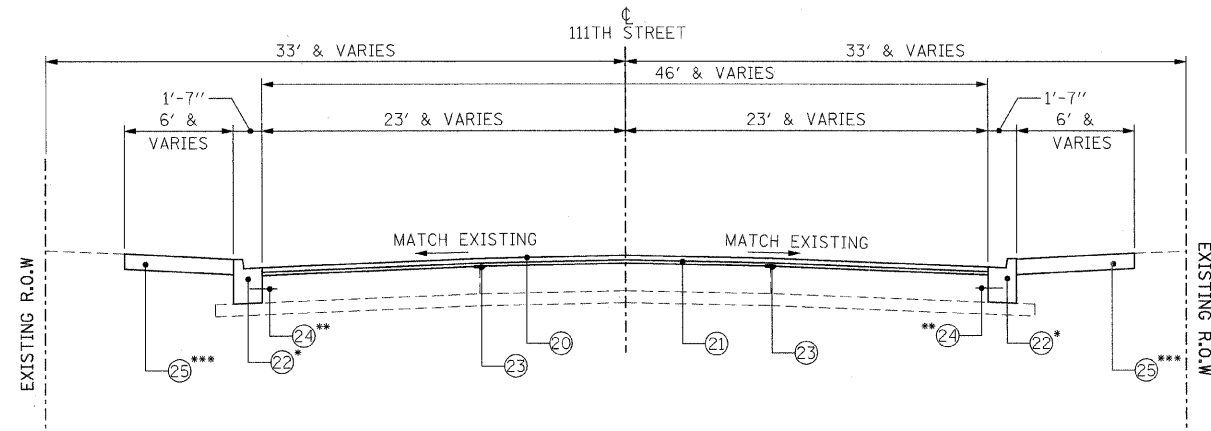




**EXISTING 111TH STREET**

STA. 10+20 TO STA. 10+85  
STA. 13+13 TO STA. 14+75

- REMOVE AND REPLACE PER SCHEDULE
- \*\*\* SEE REMOVAL PLANS FOR LIMITS OF SIDEWALK REMOVAL



**PROPOSED 111TH STREET**

STA. 10+20 TO STA. 10+85  
STA. 13+13 TO STA. 14+75

- REMOVE AND REPLACE PER SCHEDULE
- \*\* [INCLUDED IN THE COST OF CONC CURB & GUTTER TYPE B-V.12]
- \*\*\* SEE PROPOSED PLANS FOR LIMITS OF P.C.C. SIDEWALK 8" LIMITS

**NOTES:**

- EXISTING DIMENSIONS AND THICKNESSES SHOWN ARE FROM RECORD PLANS. ACTUAL DIMENSIONS AND THICKNESSES MAY VARY.
- ADDITIONAL STRIP REFLECTIVE CRACK CONTROL TREATMENT PLACEMENT LOCATIONS MY BE REQUIRED AT PAVEMENT JOINTS AND AS DIRECTED BY THE ENGINEER.
- SEE SHEET >TSCU17 FOR MIX DESIGN CHART.

**EXISTING LEGEND** [Hatched Box] REMOVAL

- ① BIT. CON SURFACE COURSE 1 1/4"
- ② BIT. CON BINDER COURSE 1 1/4"
- ③ P.C.C. BASE COURSE 9"
- ④ STABILIZED SUB-BASE 4"
- ⑤ CONC CURB & GUTTER TYPE BV.12
- ⑥ P.C.C. SIDEWALK 5"
- ⑦ CHAIN LINK FENCE
- ⑧ RETAINING WALL
- ⑨ HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH (1"-5")

**PROPOSED LEGEND** [White Box] = INCLUDED IN THE COST OF

- ⑩ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (1 1/2")
- ⑪ LEVELING BINDER (MACHINE METHOD), N70 (1")
- ⑫ CONC CURB & GUTTER TYPE B-V.12
- ⑬ STRIP REFLECTIVE CRACK CONTROL
- ⑭ [NO. 6 EPOXY COATED TIE BAR, 30" LONG @ 30" CENTERS]
- ⑮ PORTLAND CEMENT CONCRETE SIDEWALK, 8"

REVISIONS	
NAME	DATE

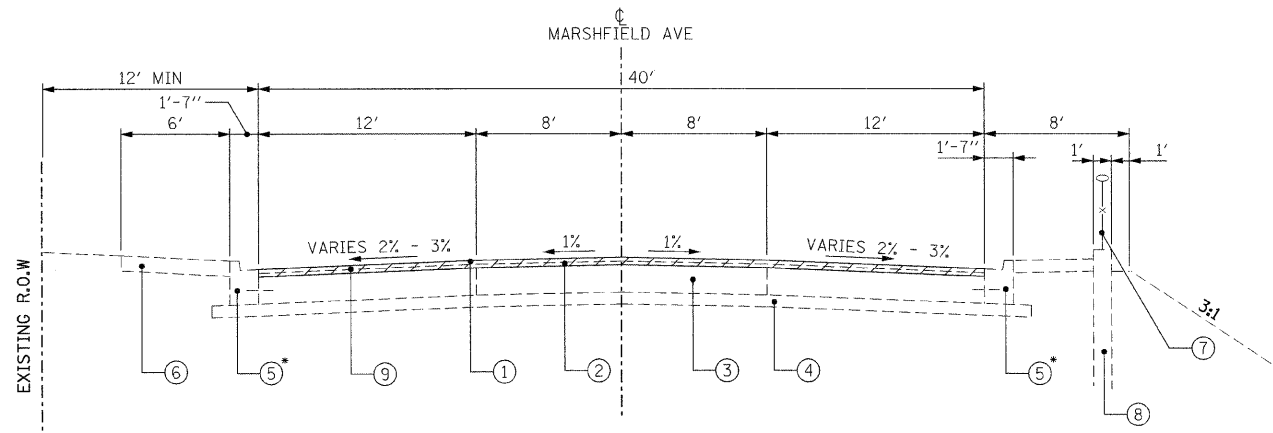
ILLINOIS DEPARTMENT OF TRANSPORTATION  
111TH STREET OVER  
F.A.I ROUTE 57 (INTERSTATE 57)

**TYPICAL SECTIONS  
111TH STREET**

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DATE: 01/16/09 CHECKED BY: ACL

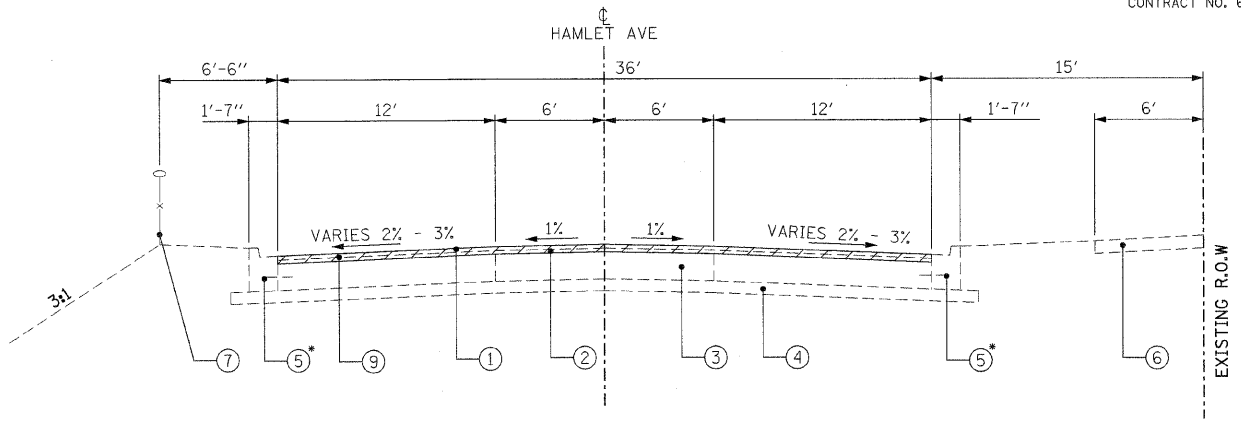
**TENG** TENG & ASSOCIATES, INC.  
ENGINEERS/ARCHITECTS/PLANNERS  
225 N. MICHIGAN AVE. CHICAGO, IL 60601  
TELEPHONE: 312/616-0000

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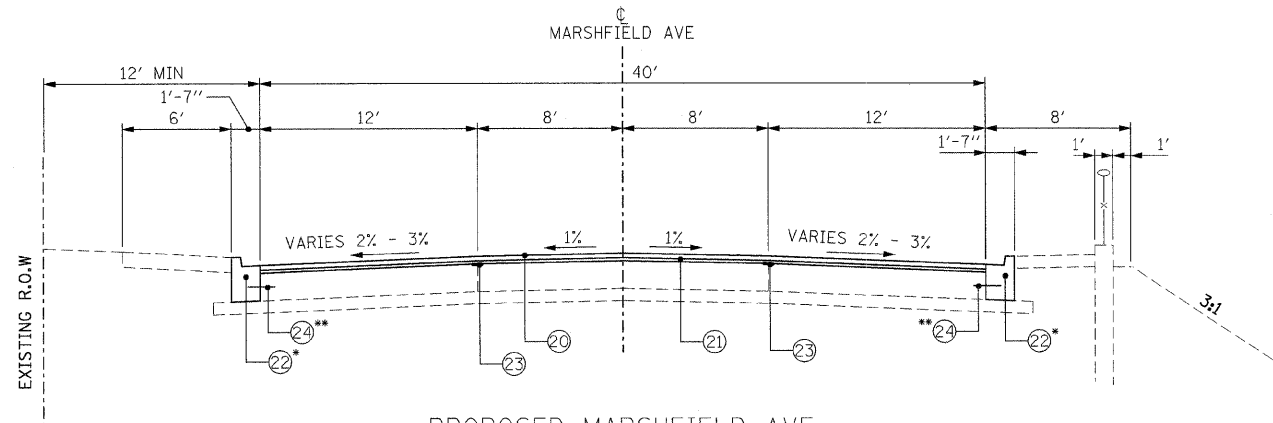
EXISTING MARSHFIELD AVE

\* REMOVE AND REPLACE PER SCHEDULE



EXISTING HAMLET AVE

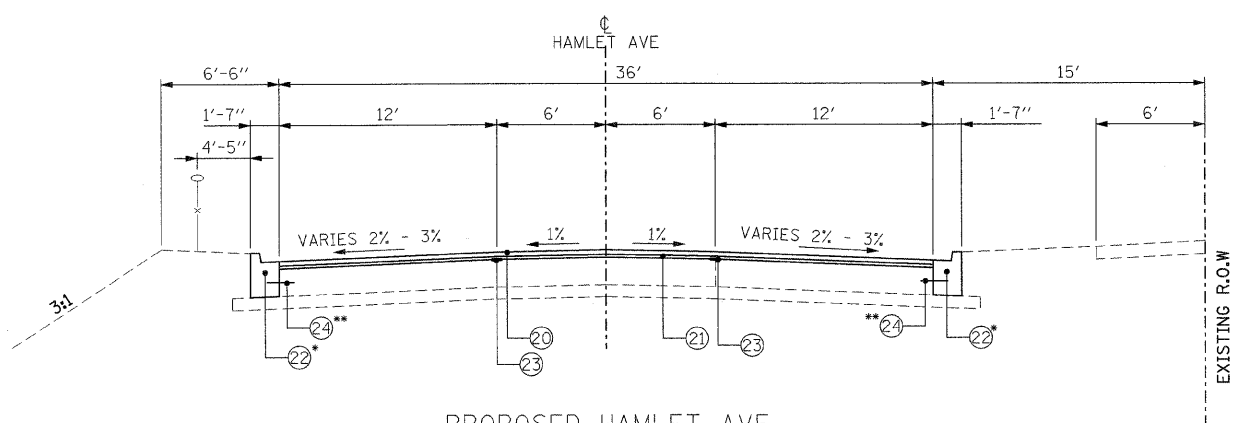
\* REMOVE AND REPLACE PER SCHEDULE



PROPOSED MARSHFIELD AVE

\* REMOVE AND REPLACE PER SCHEDULE

\*\* INCLUDED IN THE COST OF CONC CURB & GUTTER TYPE B-V.12



PROPOSED HAMLET AVE

\* REMOVE AND REPLACE PER SCHEDULE

\*\* INCLUDED IN THE COST OF CONC CURB & GUTTER TYPE B-V.12

HOT-MIX ASPHALT MIX DESIGN CHART

PAY CODE	PAY ITEM DESCRIPTION	UNIT	AC TYPE	PERCENTAGE AIR VOIDS	MIX TYPE
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	PG 64-22	4% @ 70 GYR	IL 9.5MM
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	PG 64-22*	4% @ 70 GYR	IL 9.5MM

\*WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22

NOTES:

- EXISTING DIMENSIONS AND THICKNESSES SHOWN ARE FROM RECORD PLANS. ACTUAL DIMENSIONS AND THICKNESSES MAY VARY.

EXISTING LEGEND

- ① BIT. CON SURFACE COURSE 1 1/4"
- ② BIT. CON BINDER COURSE 1 1/4"
- ③ P.C.C BASE COURSE 9"
- ④ STABILIZED SUB-BASE 4"
- ⑤ CONC CURB & GUTTER TYPE BV.12
- ⑥ P.C.C. SIDEWALK 5"
- ⑦ CHAIN LINK FENCE
- ⑧ RETAINING WALL
- ⑨ HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH (1"-5")
- ⑩ CONCRETE MEDIAN (CORRUGATED & RAISED)

PROPOSED LEGEND

- ⑳ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (1 1/2")
- ㉑ LEVELING BINDER (MACHINE METHOD), N70 (1")
- ㉒ CONC CURB & GUTTER TYPE B-V.12
- ㉓ STRIP REFLECTIVE CRACK CONTROL
- ㉔ NO. 6 EPOXY COATED TIE BAR, 30" LONG @ 30" CENTERS
- ㉕ PORTLAND CEMENT CONCRETE SIDEWALK, 8"
- ㉖ PORTLAND CEMENT CONCRETE BASE COURSE 9"
- ㉗ STABILIZED SUB-BASE 4"
- ㉘ NO. 8 EPOXY COATED TIE BAR, 24" LONG @ 24" CENTERS, DRILLED AND GOUTED

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
111TH STREET OVER  
F.A.I ROUTE 57 (INTERSTATE 57)  
**TYPICAL SECTIONS  
FRONTAGE ROADS AND  
BIT. CONC MIXTURE SCHEDULE**  
SCALE: N.T.S. DRAWN BY: BRH  
DATE: 01/16/09 CHECKED BY: ACL  
**TENG**  
TENG & ASSOCIATES, INC.  
ENGINEERS/ARCHITECTS/PLANNERS  
205 N. MICHIGAN AVE., CHICAGO, IL 60601  
TELEPHONE: 312/616-0000

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TREE REMOVAL (6 TO 15 UNITS DIAMETER)	
LOCATION	UNIT
SB I-57 OUTSIDE SHLDR (NORTH)	15.00
SB I-57 OUTSIDE SHLDR (NORTH)	15.00
SB I-57 OUTSIDE SHLDR (NORTH)	10.00
SB I-57 OUTSIDE SHLDR (NORTH)	10.00
SB I-57 OUTSIDE SHLDR (NORTH)	10.00
TOTAL= 60	

TEMPORARY FENCE	
LOCATION	FOOT
MARSHFIELD AVE ALONG TEMPORARY CONCRETE BARRIER	270.0
HAMLET AVE ALONG TEMPORARY CONCRETE BARRIER	230.0
I-57 NB OUTSIDE SHLDR (SOUTH) TREE PROTECTION	20.0
TOTAL= 520	

TREE TRUNK PROTECTION			
LOCATION	STATION	OFFSET	EACH
HAMLET AVE	9+11.20	RT	1.00
ADDITIONAL REQUIRED BY THE ENGINEER			4.00
TOTAL= 5			

SEEDING, CLASS 2A		
LOCATION	SQ YD	ACRE
SB I-57 OUTSIDE SHOULDER (SOUTH)	152.5	0.03
SB I-57 OUTSIDE SHOULDER (NORTH)	153.2	0.03
MEDIAN (SOUTH)	389.3	0.08
MEDIAN (NORTH)	387.9	0.08
NB I-57 OUTSIDE SHOULDER (SOUTH)	512.8	0.10
NB I-57 OUTSIDE SHOULDER (NORTH)	440.2	0.09
TOTAL= 0.4		

NITROGEN FERTILIZER NUTRIENT		
LOCATION	ACRE	POUND
SB I-57 OUTSIDE SHOULDER (SOUTH)	0.03	2.7
SB I-57 OUTSIDE SHOULDER (NORTH)	0.03	2.8
MEDIAN (SOUTH)	0.08	7.0
MEDIAN (NORTH)	0.08	7.0
NB I-57 OUTSIDE SHOULDER (SOUTH)	0.10	9.2
NB I-57 OUTSIDE SHOULDER (NORTH)	0.09	7.9
TOTAL= 37		

PHOSPHORUS FERTILIZER NUTRIENT		
LOCATION	ACRE	POUND
SB I-57 OUTSIDE SHOULDER (SOUTH)	0.03	2.7
SB I-57 OUTSIDE SHOULDER (NORTH)	0.03	2.8
MEDIAN (SOUTH)	0.08	7.0
MEDIAN (NORTH)	0.08	7.0
NB I-57 OUTSIDE SHOULDER (SOUTH)	0.10	9.2
NB I-57 OUTSIDE SHOULDER (NORTH)	0.09	7.9
TOTAL= 37		

POTASSIUM FERTILIZER NUTRIENT		
LOCATION	ACRE	POUND
SB I-57 OUTSIDE SHOULDER (SOUTH)	0.03	2.7
SB I-57 OUTSIDE SHOULDER (NORTH)	0.03	2.8
MEDIAN (SOUTH)	0.08	7.0
MEDIAN (NORTH)	0.08	7.0
NB I-57 OUTSIDE SHOULDER (SOUTH)	0.10	9.2
NB I-57 OUTSIDE SHOULDER (NORTH)	0.09	7.9
TOTAL= 37		

PERIMETER EROSION BARRIER	
LOCATION	FOOT
SB I-57 OUTSIDE SHOULDER (SOUTH)	97.5
SB I-57 OUTSIDE SHOULDER (NORTH)	96.3
MEDIAN (SOUTH)	38.7
MEDIAN (NORTH)	38.7
NB I-57 OUTSIDE SHOULDER (SOUTH)	131.6
NB I-57 OUTSIDE SHOULDER (NORTH)	133.8
TOTAL= 537	

BITUMINOUS MATERIALS (PRIME COAT) APPLICATION RATE .0004 TONS PER SQ YD		
ITEM	SQ YD	TONS
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	2776.6	1.1
LEVELING BINDER (MACHINE METHOD), N70	2776.6	1.1
TOTAL= 2		

AGGREGATE (PRIME COAT) APPLICATION RATE .002 TONS PER SQ YD		
ITEM	SQ YD	TONS
LEVELING BINDER (MACHINE METHOD), N70	2776.6	5.55
TOTAL= 6		

PROTECTIVE COAT	
ITEM	SQ YD
PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	217.7
COMBINATION CONCRETE CURB AND GUTTER, TYPE B-V.12	92.9
TOTAL= 311	

PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH				
FROM STATION	TO STATION	SQ FT	LOCATION	SQ FT
10+15.74	10+07.08	93.2	SW CORNER 111 & MARSHFIELD	93.2
10+56.39	10+43.95	99.4	NW CORNER 111 & MARSHFIELD	99.4
10+69.99	10+96.96	211.0	SE CORNER 111 & MARSHFIELD	211.0
11+01.19	11+18.83	218.8	NE CORNER 111 & MARSHFIELD	218.8
12+73.09	13+23.31	468.6	SW CORNER 111 & HAMLET	468.6
12+93.26	13+57.75	459.9	NW CORNER 111 & HAMLET	459.9
14+05.03	14+24.45	143.8	NE CORNER 111 & HAMLET	143.8
13+70.38	13+92.00	264.9	SE CORNER 111 & HAMLET	264.9
TOTAL= 1960				

BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)			
FROM STATION	TO STATION	SQ FT	SQ YD
10+78.99	10+85.25	591.8	65.8
13+11.82	13+22.25	667.3	74.1
TOTAL= 140			

BRIDGE APPROACH PAVEMENT (SPECIAL)				
FROM STATION	TO STATION	ALONG CENTERLINE OF 111TH ST	SQ FT	SQ YD
10+85.25	11+05.25	ALONG CENTERLINE OF 111TH ST	1339.4	148.8
12+81.82	13+11.82	ALONG CENTERLINE OF 111TH ST	1979.8	220.0
TOTAL= 369				

HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH				
FROM STATION	TO STATION	SQ FT	LOCATION	SQ YD
10+20.00	10+78.99	7496.3	WEST INTERSECTION	832.9
13+22.25	14+75.00	16233.7	EAST INTERSECTION	1803.7
TOTAL= 2637				

PAVEMENT REMOVAL			
FROM STATION	TO STATION	SQ FT	SQ YD
10+78.93	10+85.25	606.4	67.4
13+11.38	13+22.25	773.5	85.9
TOTAL= 153			

COMBINATION CURB AND GUTTER REMOVAL				
FROM STATION	TO STATION	RT/LT	LOCATION	FOOT
10+16.31	10+07.49	RT	SW CORNER 111 & MARSHFIELD	17.5
10+56.91	10+44.28	LT	NW CORNER 111 & MARSHFIELD	19.3
10+68.29	10+77.18	RT	SE CORNER 111 & MARSHFIELD	27.0
10+99.85	10+97.21	LT	NE CORNER 111 & MARSHFIELD	25.3
				0.0
13+10.83	13+24.82	RT	SW CORNER 111 & HAMLET	41.0
13+12.17	13+57.75	LT	NW CORNER 111 & HAMLET	90.0
14+04.49	14+24.32	LT	NE CORNER 111 & HAMLET	26.0
13+69.87	13+91.82	RT	SE CORNER 111 & HAMLET	27.2
DAMAGED CURB AS DIRECTED BY THE ENGINEER				150.0
TOTAL= 423				

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
111TH STREET OVER  
F.A.I. ROUTE 57 (INTERSTATE 57)

**SCHEDULE OF QUANTITIES**

SCALE: N.T.S. DRAWN BY: BRH  
DATE: 01/16/09 CHECKED BY: ACL

**TENG**  
ENGINEERS/ARCHITECTS/PLANNERS  
205 N. MICHIGAN AVE., CHICAGO, IL 60601  
TELEPHONE: 312/451-0000

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PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 4"						
LOCATION	FROM STATION	TO STATION	SKIP DASH	COLOR	LANES	FOOT
BRIDGE MEDIAN	11+11.70	13+17.00	N/A	YELLOW		836.1
TOTAL=						836

HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70							112 LBS/SQ YD/IN	
FROM STATION	TO STATION	SO FT	THICKNESS (IN)	LOCATION	TON			
10+20.00	10+79.00	7496.32	1.50	WEST INTERSECTION	70.0			
13+22.25	14+75.00	16233.7	1.50	EAST INTERSECTION	151.5			
10+78.99	10+85.25	591.82	1.50	PAVEMENT CONNECTOR	5.5			
13+11.82	13+22.25	667.32	1.50	PAVEMENT CONNECTOR	6.2			
TOTAL=						233		

PREFORMED PLASTIC PAVEMENT MARKING, TYPE B-LINE 6"			
LOCATION	FROM STATION	TO STATION	FOOT
WB 111TH BRIDGE	11+15.20	12+91.03	175.8
EB 111TH BRIDGE	11+38.71	13+04.00	165.29
TOTAL=			341

LEVELING BINDER (MACHINE METHOD), N70							112 LBS/SQ YD/IN	
FROM STATION	TO STATION	SO FT	THICKNESS (IN)	LOCATION	TON			
10+20.00	10+79.00	7496.32	1.00	WEST INTERSECTION	46.6			
13+22.25	14+75.00	16233.7	1.00	EAST INTERSECTION	101.0			
10+78.99	10+85.25	591.82	1.00	PAVEMENT CONNECTOR	3.7			
13+11.82	13+22.25	667.32	1.00	PAVEMENT CONNECTOR	4.2			
TOTAL=								

PREFORMED PLASTIC PAVEMENT MARKING, TYPE B-LINE 12"		
LOCATION	FOOT	
DIAGONALS MEDIAN 112TH BRIDGE	100.0	
TOTAL=		100

COMBINATION CONCRETE CURB AND GUTTER, TYPE B-V.12					
FROM STATION	TO STATION	RT/LT	LOCATION	FOOT	
10+16.31	10+07.49	RT	SW CORNER 111 & MARSHFIELD	17.5	
10+56.91	10+44.28	LT	NW CORNER 111 & MARSHFIELD	19.3	
10+68.29	10+76.88	RT	SE CORNER 111 & MARSHFIELD	25.0	
10+99.85	10+97.21	LT	NE CORNER 111 & MARSHFIELD	24.7	
13+03.23	13+24.82	RT	SW CORNER 111 & HAMLET	49.0	
13+22.73	13+65.52	LT	NW CORNER 111 & MARSHFIELD	79.0	
14+04.49	14+24.32	LT	NE CORNER 111 & HAMLET	26.0	
13+69.87	13+91.82	RT	SE CORNER 111 & HAMLET	27.2	
TOTAL DAMAGED FROM ITEM 44000500 (C&G REMOVAL)				150.0	
TOTAL=					418

PREFORMED PLASTIC PAVEMENT MARKING, TYPE B-LINE 24"		
LOCATION	STATION	FOOT
111TH BRIDGE	11+19.30	28.0
111TH BRIDGE	13+00.70	28.0
111TH BRIDGE	RAILROAD BARS	52.0
TOTAL=		108

SELECTIVE CLEARING			1 UNIT/1000 SQ FT	
LOCATION	SO FT	UNIT		
NB I-57 OUTSIDE SHLDR (SOUTH)	424.74	0.42		
NB I-57 OUTSIDE SHLDR (NORTH)	254.86	0.25		
TOTAL=			1	

BARRIER WALL MARKERS, TYPE C				
LOCATION	FOOT	SPACING (FT)	EACH	
MARSHFIELD RD	270.0	25	22	
OUTSIDE SB I-57	270.0	25	22	
INSIDE SB I-57	290.0	25	23	
INSIDE NB I-57	270.0	25	22	
OUTSIDE NB I-57	270.0	25	22	
HAMELET AVE	230.0	25	18	
TOTAL=				128

PAVEMENT MARKING REMOVAL					
LOCATION	DESCRIPTION	FROM STATION	TO STATION	WIDTH (FT)	SO FT
W. OF R.R. TRACKS	R.R. CROSSING	8+35.98	8+85.98		101.2
W. OF R.R. TRACKS	MEDIAN STRIPPING	8+15.35	9+72.38	0.3	199.3
W. OF R.R. TRACKS	MEDIAN STRIPPING	8+15.35	9+72.38	1.0	22.0
W. OF R.R. TRACKS	EB LANE 6'-18'	8+15.35	9+35.13	0.3	9.9
W. OF R.R. TRACKS	WB LANE 6'-18'	8+15.35	9+66.13	0.3	12.4
W. OF R.R. TRACKS	EB STOP BAR	9+35.13		2.0	48.0
EB OF R.R. TRACKS	MEDIAN STRIPPING	9+91.81	10+21.63	0.3	42.6
EB OF R.R. TRACKS	MEDIAN STRIPPING	9+91.81	10+21.63	1.0	15.0
MARSHFIELD/111TH	N. CROSSWALK	10+41.02	10+98.76	0.5	57.7
MARSHFIELD/111TH	S. CROSSWALK	9+99.38	10+74.05	1.5	224.0
RAMP D	STOP BAR	0+15.08		2.0	81.4
RAMP D	LANE LINE	0+20.33	0+43.24	0.3	7.6
RAMP D	LANE LINE	0+22.91	0+43.24	0.3	6.7
111 TH STREET	MEDIAN STRIPPING	14+75.00	15+93.26	0.3	114.6
112 TH STREET	MEDIAN STRIPPING	14+75.00	15+27.58	1.0	20.0
TOTAL=					963

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
111TH STREET OVER  
F.A.I. ROUTE 57 (INTERSTATE 57)

### SCHEDULE OF QUANTITIES

SCALE: N.T.S. DRAWN BY: BRH  
DATE: 01/16/09 CHECKED BY: ACL

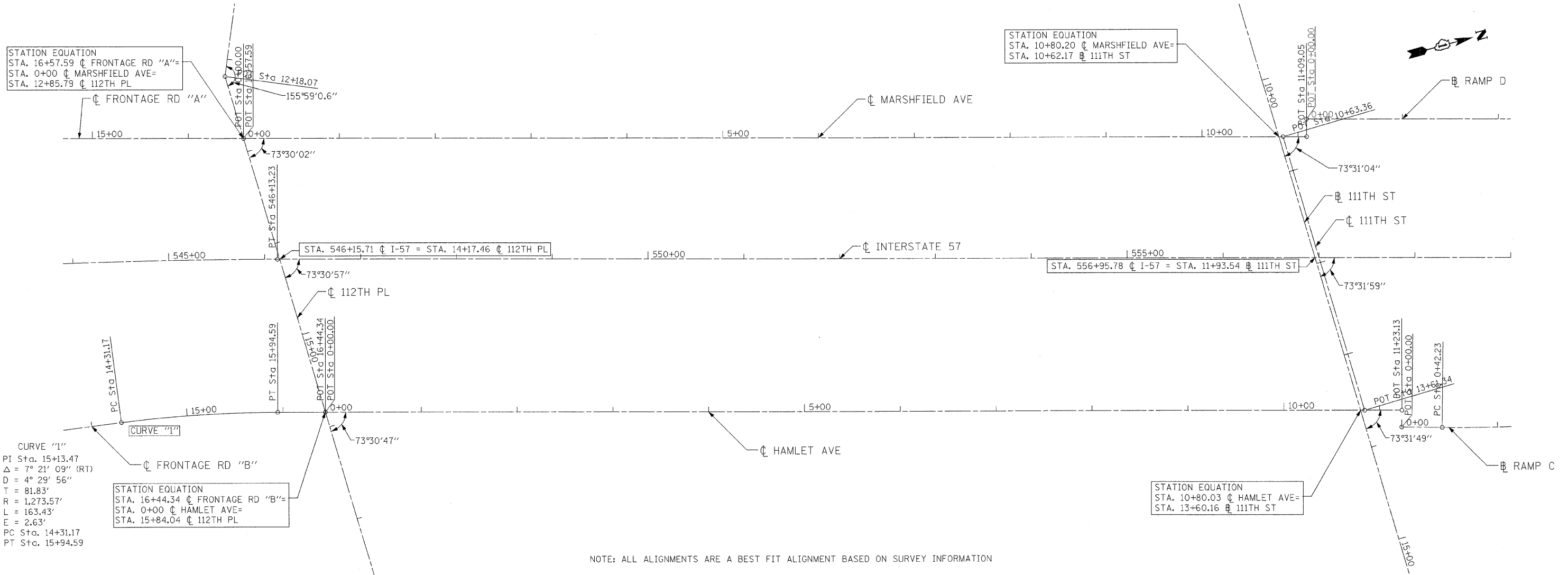
**TENG**

TENG & ASSOCIATES, INC.  
ENGINEERS, ARCHITECTS, PLANNERS  
205 N. MICHIGAN AVE., CHICAGO, IL 60601  
TELEPHONE: 312/916-0000

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### HAMLET AVE AND MARSHFIELD AVE TIE DATA

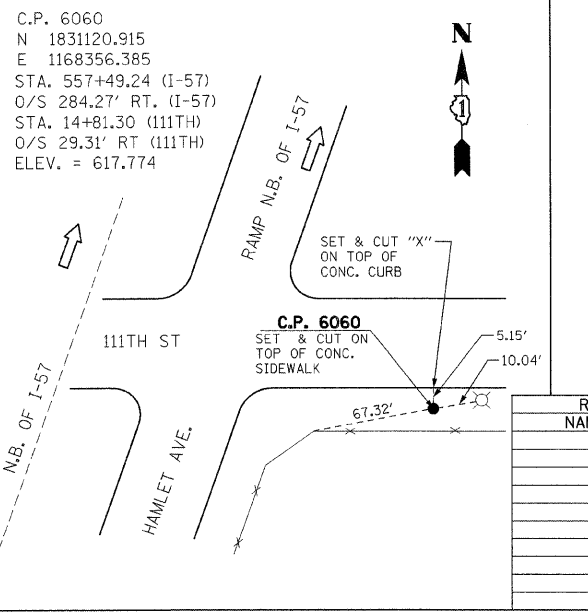
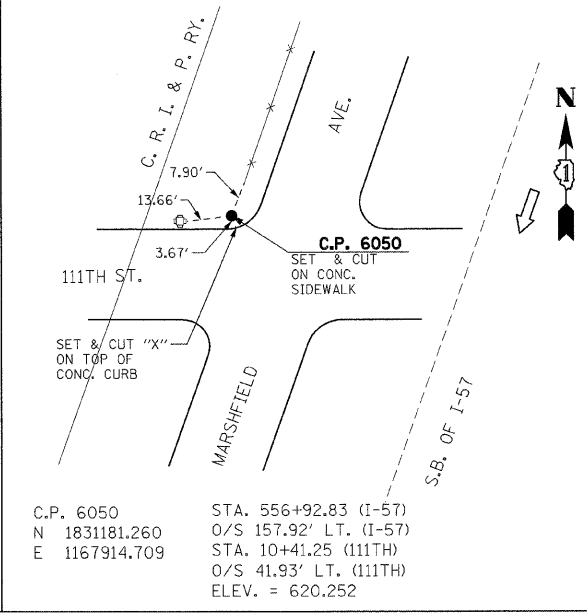
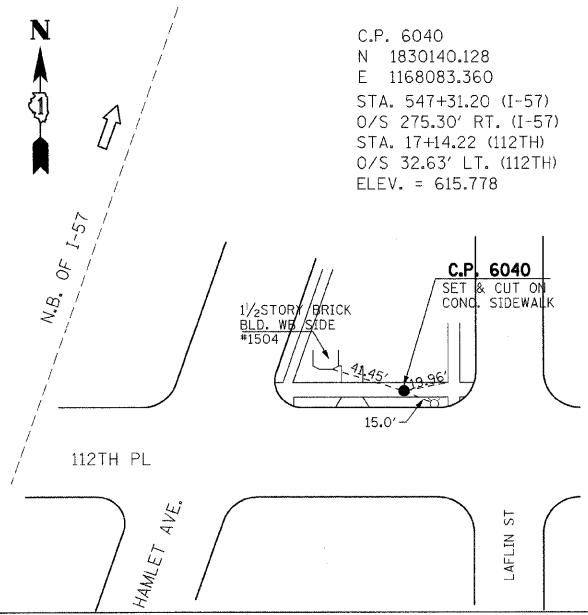
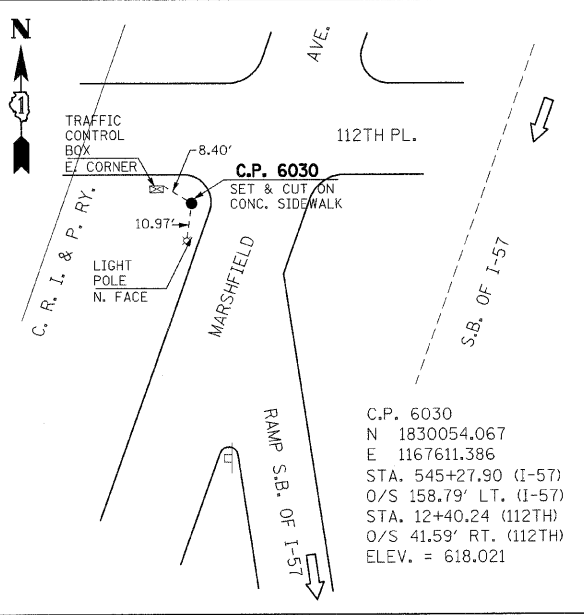
FRONTAGE ROAD	FRONTAGE RD STA.	MAINLINE STA.	MAINLINE O/S	NORTHING	EASTING
MARSHFIELD AVE	0+00.00	545+79.10	126.36' LT	1,830,096.788760	1,167,655.879998
HAMLET AVE	0+00.00	546+62.97	159.73' RT	1,830,104.248481	1,167,954.038967



### BENCHMARK DESCRIPTIONS

- BENCH MARK LOCATED AT THE INTERSECTION OF WEST 112TH PLACE, WEST MONTERY AVENUE AND SOUTH MARSHFIELD AVE., BENCH MARK IS A CROSS NOTCH ON WEST FLANGE BOLT OF FIRE HYDRANT LOCATED AT THE NORTHWEST CORNER OF INTERSECTION, ELEVATION= 619.17 FEET.
- BENCH MARK LOCATED AT THE INTERSECTION OF WEST 111TH ST AND S. HAMLET AVE. BENCH MARK IS A CROSS-NOTCH ON NORTH FLANGE BOLT OF THE FIRE HYDRANT LOCATED AT THE SOUTHEAST CORNER OF INTERSECTION, ELEVATION = 619.37 FEET.

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 111TH STREET OVER  
 F.A.I ROUTE 57 (INTERSTATE 57)

### ALIGNMENT & TIES

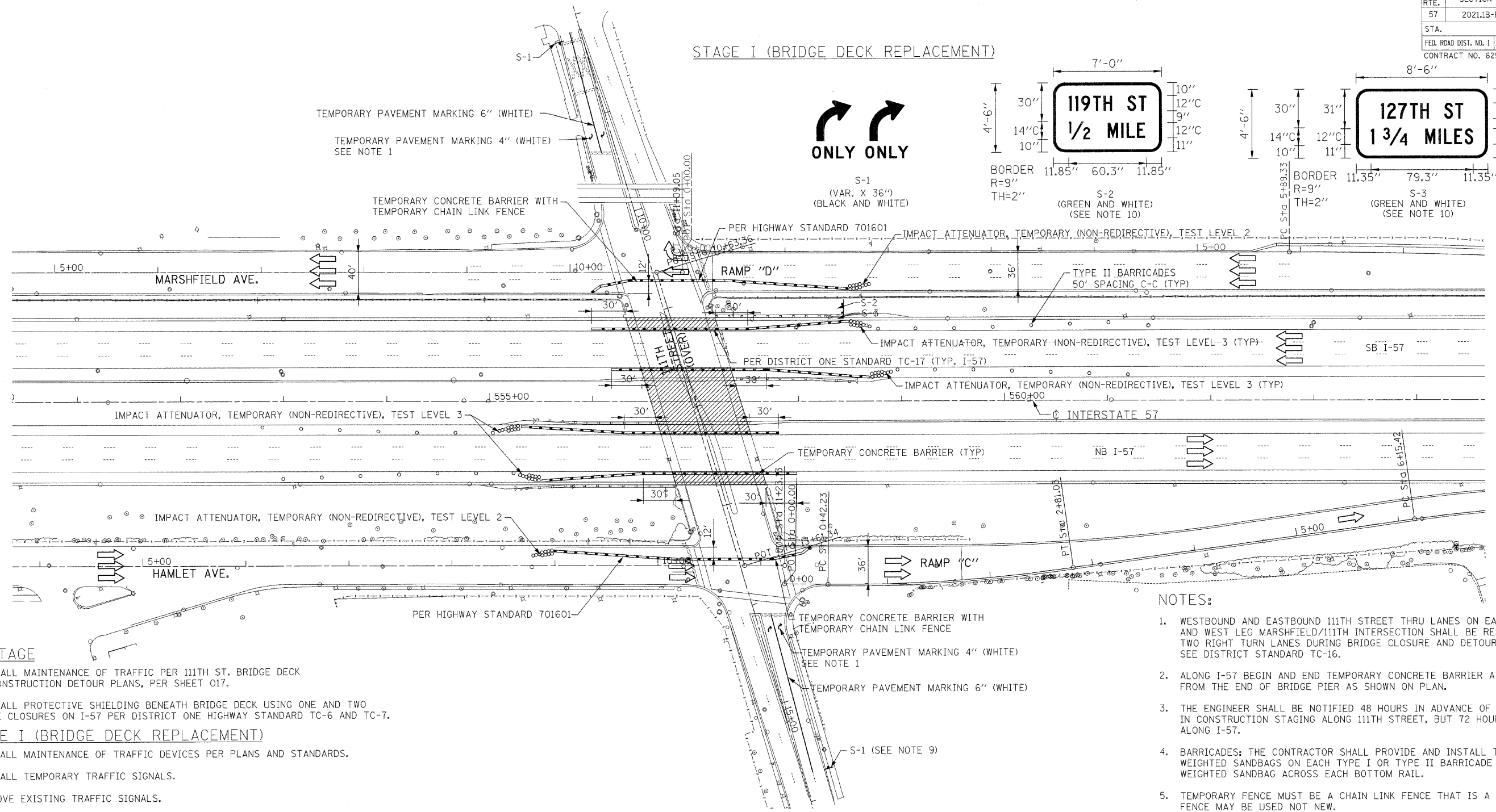
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 DATE: 01/16/09  
 DRAWN BY: BRH  
 CHECKED BY: ACL

**TENG**  
 TENG & ASSOCIATES, INC.  
 ENGINEERS/ARCHITECTS/PLANNERS  
 205 N. MICHIGAN AVE., CHICAGO, IL 60601  
 TELEPHONE: 312/516-0000









**STAGE I (BRIDGE DECK REPLACEMENT)**

**STAGE II (FRONTAGE ROAD RESURFACING)**

**PRESTAGE**

1. INSTALL MAINTENANCE OF TRAFFIC PER 111TH ST. BRIDGE DECK RECONSTRUCTION DETOUR PLANS, PER SHEET 017.
2. INSTALL PROTECTIVE SHIELDING BENEATH BRIDGE DECK USING ONE AND TWO LANE CLOSURES ON I-57 PER DISTRICT ONE HIGHWAY STANDARD TC-6 AND TC-7.

**STAGE I (BRIDGE DECK REPLACEMENT)**

1. INSTALL MAINTENANCE OF TRAFFIC DEVICES PER PLANS AND STANDARDS.
2. INSTALL TEMPORARY TRAFFIC SIGNALS.
3. REMOVE EXISTING TRAFFIC SIGNALS.
4. SHOULDER CLOSURE PER IDOT DISTRICT 1 STANDARD, TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES, PARTIAL RAMP CLOSURES, TC-17.
5. REMOVE AND REPLACE EXISTING CONCRETE DECK.
6. REMOVE AND REPLACE ABUTMENT BACKWALL AND PORTIONS OF RETAINING WALL.
7. REMOVE EXISTING PAVEMENT, APPROACH PAVEMENT, CURB & GUTTER, LIGHTING AND SIDEWALK.
8. CONSTRUCT PROPOSED CURB & GUTTER, PCC BASE COURSE, BRIDGE APPROACH SLAB, BRIDGE APPROACH PAVEMENT, BRIDGE APPROACH PAVEMENT CONNECTOR, LIGHTING, AND SIDEWALK PER PLANS AND STANDARDS.
9. INSTALL PROPOSED TRAFFIC SIGNALS.
10. REMOVE TEMPORARY TRAFFIC SIGNALS.

1. RESURFACING, CURB AND GUTTER AND SIDEWALK REMOVAL & REPLACEMENT PER ROADWAY PLANS AND STANDARD 701411, 701601, 701701, AND 701801.
2. MEDIAN REMOVAL PARTIAL DEPTH PER ROADWAY PLANS.
3. PLACE PAVEMENT MARKING AND SIGNING PER PAVEMENT MARKING AND SIGNING PLANS.

**LEGEND**

- TRAFFIC LANE/DIRECTION OF TRAVEL
- DRUMS (TYPE II BARRICADES) W/ STEADY BURN LIGHTS @ SPACING PER IDOT DISTRICT ONE STANDARDS
- TEMPORARY CONCRETE BARRIER WALL
- WORK ZONE

**NOTES:**

1. WESTBOUND AND EASTBOUND 111TH STREET THRU LANES ON EAST LEG HAMLET/111TH AND WEST LEG MARSHFIELD/111TH INTERSECTION SHALL BE RESTRIPTED FOR TWO RIGHT TURN LANES DURING BRIDGE CLOSURE AND DETOUR ROUTING. SEE DISTRICT STANDARD TC-16.
2. ALONG I-57 BEGIN AND END TEMPORARY CONCRETE BARRIER AT A MINIMUM OF 30 FT FROM THE END OF BRIDGE PIER AS SHOWN ON PLAN.
3. THE ENGINEER SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF ANY CHANGE IN CONSTRUCTION STAGING ALONG 111TH STREET, BUT 72 HOURS IN ADVANCE ALONG I-57.
4. BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SANDBAGS ON EACH TYPE I OR TYPE II BARRICADE USED - ONE (1) WEIGHTED SANDBAG ACROSS EACH BOTTOM RAIL.
5. TEMPORARY FENCE MUST BE A CHAIN LINK FENCE THAT IS A MINIMUM OF 6' TALL. FENCE MAY BE USED NOT NEW.
6. TEMPORARY PAVEMENT MARKING 4" (YELLOW) SHALL BE PLACED ALONG SIDE TEMPORARY CONCRETE BARRIER ALONG THE FRONTAGE ROADS AND WILL BE PAID FOR AS TEMPORARY PAVEMENT MARKING 4".
7. ALL CONFLICTING PAVEMENT MARKINGS SHALL BE REMOVED AND PAID FOR AS PAVEMENT MARKING REMOVAL.
8. RAILROAD FLAGGERS WILL BE REQUIRED ACCORDING TO ARTICLE 107.12 OF THE STANDARD SPECIFICATIONS.

9. THE COST OF THE S-1 WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR MAINTENANCE OF TRAFFIC.
10. SIGN SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 111TH STREET OVER  
 F.A.I. ROUTE 57 (INTERSTATE 57)  
**M.O.T. INTERSTATE 57  
 AND 111TH STREET  
 STAGING AND TRAFFIC CONTROL**  
 SCALE: 1"=50' DRAWN BY: BRH  
 DATE: 01/16/09 CHECKED BY: ACL  
**TENG**  
TENG & ASSOCIATES, INC.  
 ENGINEERS/ARCHITECTS/PLANNERS  
 205 N. MICHIGAN AVE., CHICAGO, IL 60601  
 TELEPHONE: 312/516-0000

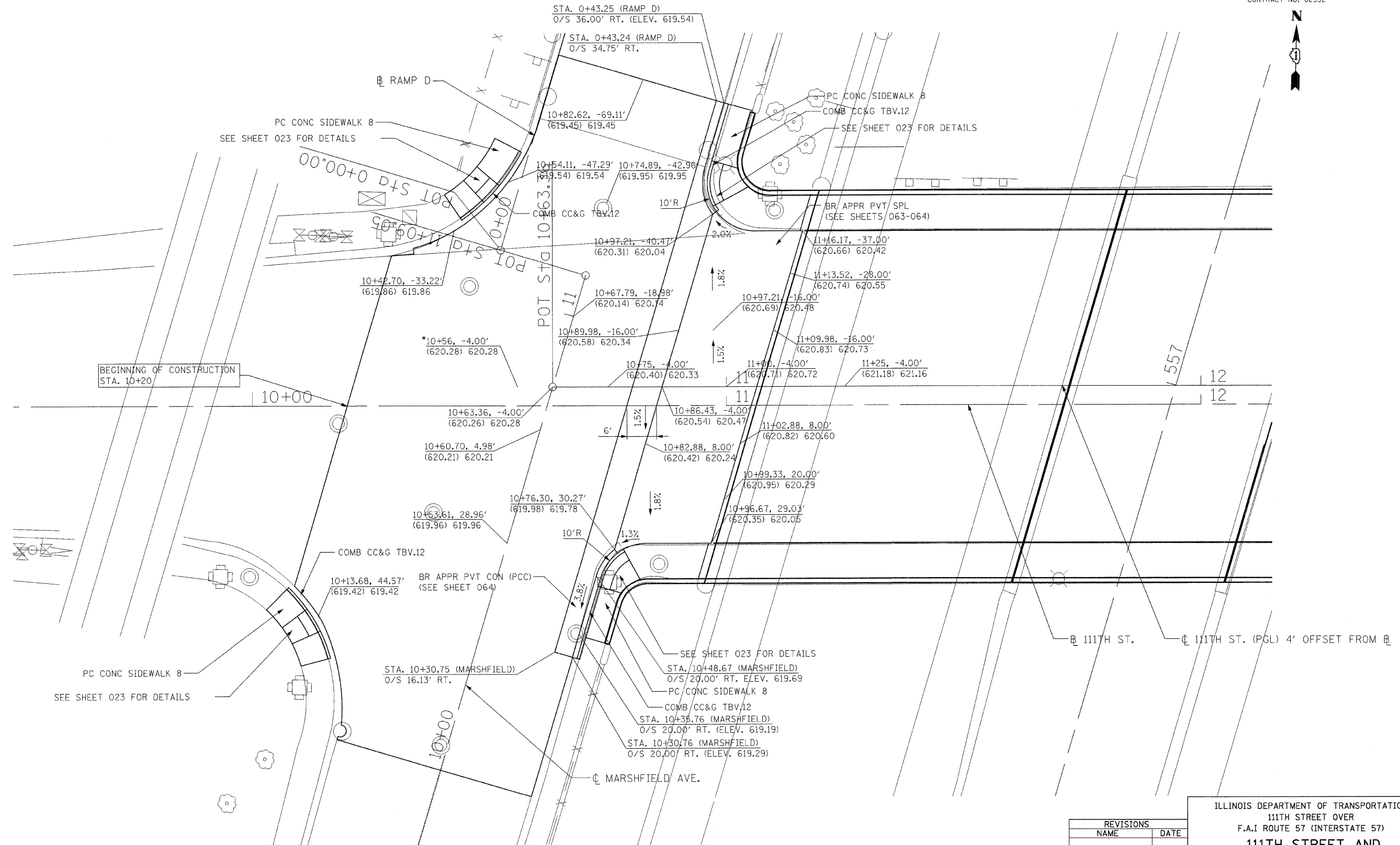
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.1B-R	COOK	101	021
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62532				



PROPOSED INTERSECTION GRADING PLAN  
FOR 111TH STREET AND MARSHFIELD AVE.

NOTE: ALL STATIONING MEASURED OFF 111TH STREET UNLESS OTHERWISE NOTED.  
 \* CONTRACTOR SHALL VERIFY EXISTING ELEVATION PRIOR TO CONSTRUCTION

**LEGEND**

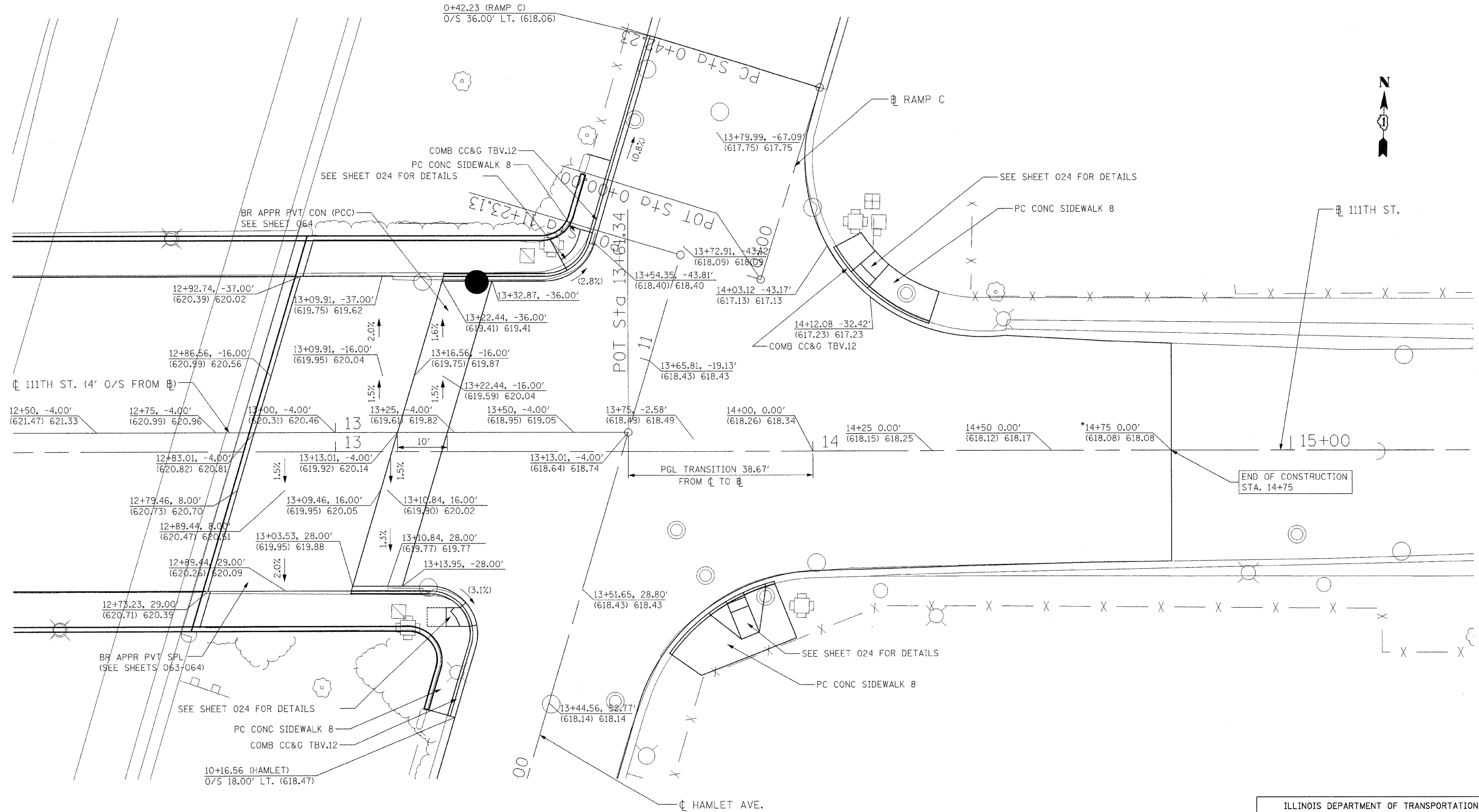
STATION, OFFSET
(EXIST. ELEV.) PROP. ELEV.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 111TH STREET OVER  
 F.A.I ROUTE 57 (INTERSTATE 57)  
**111TH STREET AND  
 MARSHFIELD AVE  
 INTERSECTION GRADING PLAN**  
 SCALE: 1"=10'  
 DATE: 01/16/09  
 DRAWN BY: BRH  
 CHECKED BY: ACL  
**TENG**  
TENG & ASSOCIATES, INC.  
 ENGINEERS/ARCHITECTS/PLANNERS  
 205 N. MICHIGAN AVE., CHICAGO, IL 60601  
 TELEPHONE: 312/616-0000

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.1B-R	COOK	101	022
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62532				



**PROPOSED INTERSECTION GRADING PLAN  
FOR 111TH STREET AND HAMLET AVE.**

NOTE: ALL STATIONING MEASURED OFF 111TH STREET CL UNLESS OTHERWISE NOTED.  
• CONTRACTOR SHALL VERIFY EXISTING ELEVATION PRIOR TO CONSTRUCTION

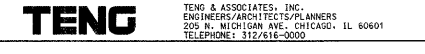
**LEGEND**

STATION, OFFSET  
(EXIST. ELEV.) PROP. ELEV.  
(X.X%) - EXISTING SLOPE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
111TH STREET OVER  
F.A.I. ROUTE 57 (INTERSTATE 57)  
**111TH AND HAMLET AVE.  
INTERSECTION GRADING PLAN**

SCALE: 1"=10'  
DATE: 01/16/09  
DRAWN BY: BRH  
CHECKED BY: ACL



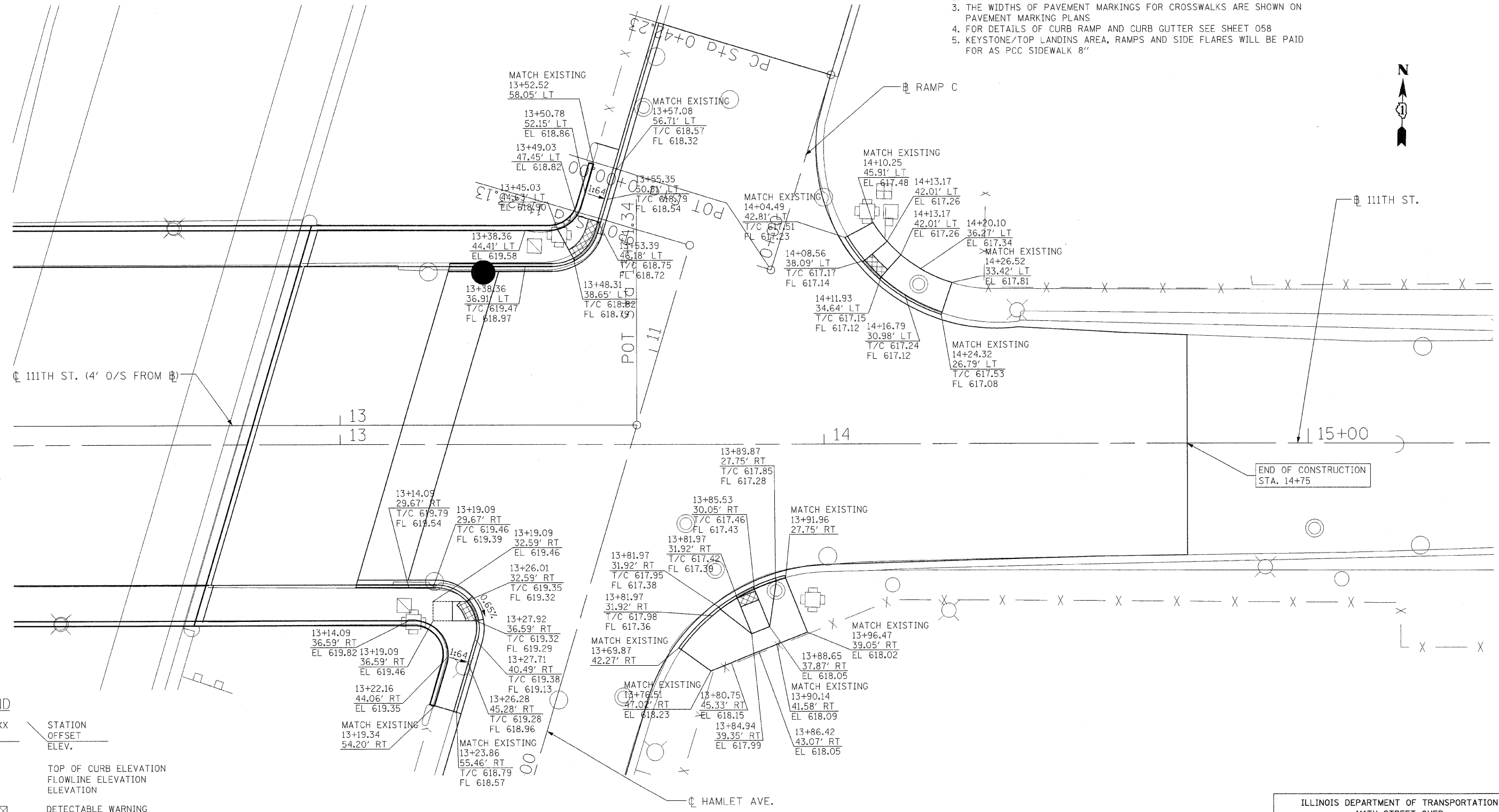
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021JB-R	COOK	101	024
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62532				

**NOTES:**

1. FOR CURB RAMP AND SIDEWALK DETAILS AND GENERAL NOTES SEE SHEETS 059 TO 061
2. ALL SLOPES SHOWN ARE ROUNDED NUMBERS
3. THE WIDTHS OF PAVEMENT MARKINGS FOR CROSSWALKS ARE SHOWN ON PAVEMENT MARKING PLANS
4. FOR DETAILS OF CURB RAMP AND CURB GUTTER SEE SHEET 058
5. KEYSTONE/TOP LANDINGS AREA, RAMPS AND SIDE FLARES WILL BE PAID FOR AS PCC SIDEWALK 8"



END OF CONSTRUCTION STA. 14+75

**PROPOSED ADA RAMP GRADING PLAN FOR 111TH STREET AND HAMLET AVE.**

NOTE: ALL STATIONING MEASURED OFF 111TH STREET UNLESS OTHERWISE NOTED.  
 • CONTRACTOR SHALL VERIFY EXISTING ELEVATION PRIOR TO CONSTRUCTION

**LEGEND**

- XXX+XX.XX STATION
- XX.XX' OFFSET
- XXX.XX ELEV.
- T/C TOP OF CURB ELEVATION
- FL FLOWLINE ELEVATION
- EL ELEVATION
- [Cross-hatched box] DETECTABLE WARNING TILES
- [Solid shaded box] DEPRESSED CURB
- 0.5% SLOPE DIRECTION
- 1:64 SLOPE DIRECTION

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 111TH STREET OVER  
 F.A.I. ROUTE 57 (INTERSTATE 57)

**111TH AND HAMLET AVE.  
 ADA SIDEWALK DETAILS**

SCALE: 1"=10'  
 DATE: 01/16/09

DRAWN BY: BRH  
 CHECKED BY: ACL

**TENG**  
TENG & ASSOCIATES, INC.  
 ENGINEERS/ARCHITECTS/PLANNERS  
 205 N. MICHIGAN AVE., CHICAGO, IL 60601  
 TELEPHONE: 312/616-0000

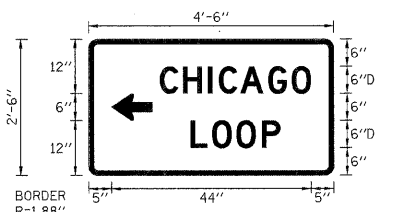
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.B-R	COOK	101	025
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62532				

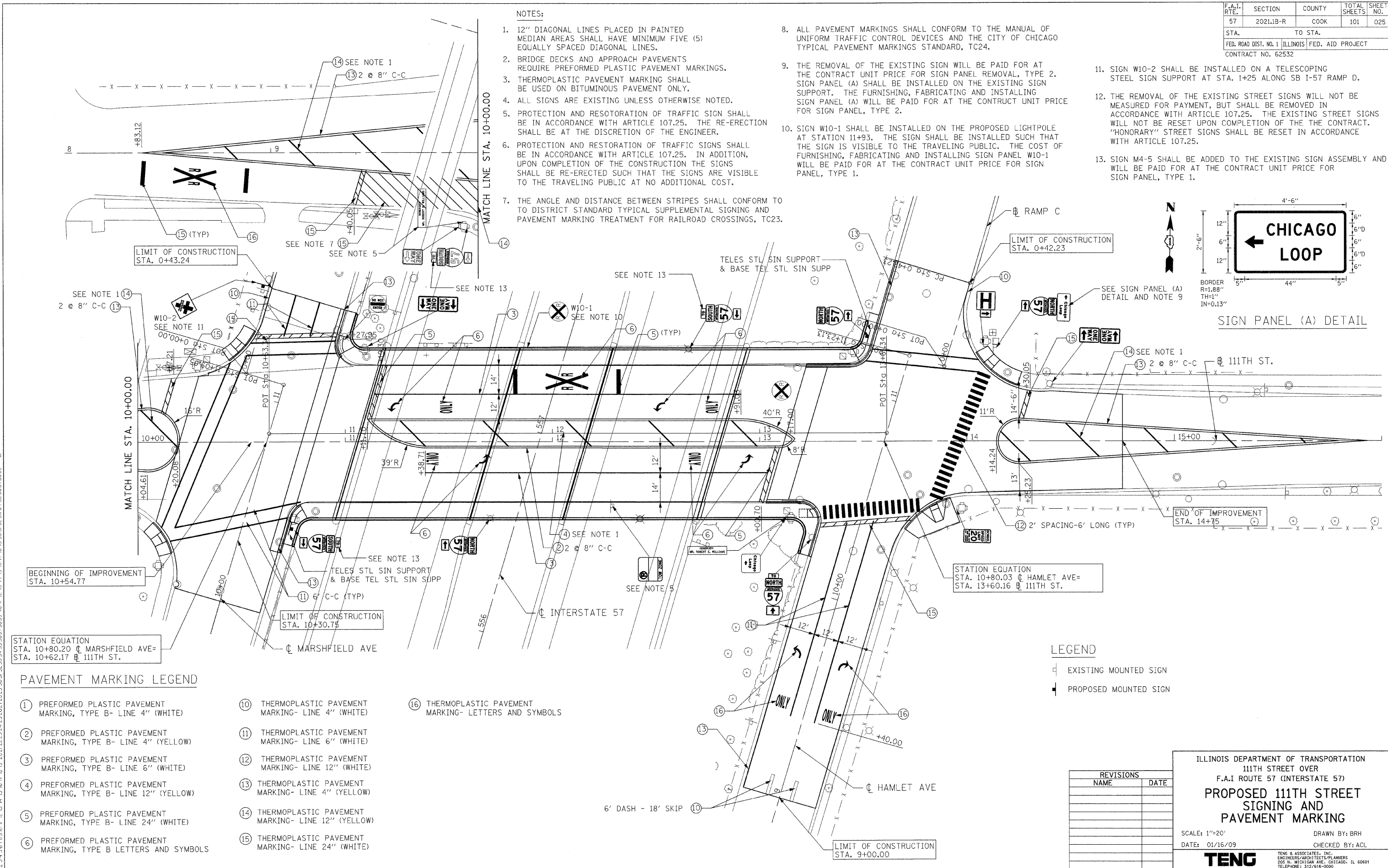
NOTES:

- 12" DIAGONAL LINES PLACED IN PAINTED MEDIAN AREAS SHALL HAVE MINIMUM FIVE (5) EQUALLY SPACED DIAGONAL LINES.
- BRIDGE DECKS AND APPROACH PAVEMENTS REQUIRE PREFORMED PLASTIC PAVEMENT MARKINGS.
- THERMOPLASTIC PAVEMENT MARKING SHALL BE USED ON BITUMINOUS PAVEMENT ONLY.
- ALL SIGNS ARE EXISTING UNLESS OTHERWISE NOTED.
- PROTECTION AND RESOTORATION OF TRAFFIC SIGN SHALL BE IN ACCORDANCE WITH ARTICLE 107.25. THE RE-ERECTION SHALL BE AT THE DISCRETION OF THE ENGINEER.
- PROTECTION AND RESTORATION OF TRAFFIC SIGNS SHALL BE IN ACCORDANCE WITH ARTICLE 107.25. IN ADDITION, UPON COMPLETION OF THE CONSTRUCTION THE SIGNS SHALL BE RE-ERECTION SUCH THAT THE SIGNS ARE VISIBLE TO THE TRAVELING PUBLIC AT NO ADDITIONAL COST.
- THE ANGLE AND DISTANCE BETWEEN STRIPES SHALL CONFORM TO TO DISTRICT STANDARD TYPICAL SUPPLEMENTAL SIGNING AND PAVEMENT MARKING TREATMENT FOR RAILROAD CROSSINGS, TC23.
- ALL PAVEMENT MARKINGS SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND THE CITY OF CHICAGO TYPICAL PAVEMENT MARKINGS STANDARD, TC24.
- THE REMOVAL OF THE EXISTING SIGN WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR SIGN PANEL REMOVAL, TYPE 2. SIGN PANEL (A) SHALL BE INSTALLED ON THE EXISTING SIGN SUPPORT. THE FURNISHING, FABRICATING AND INSTALLING SIGN PANEL (A) WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR SIGN PANEL, TYPE 2.
- SIGN W10-1 SHALL BE INSTALLED ON THE PROPOSED LIGHTPOLE AT STATION 11+93. THE SIGN SHALL BE INSTALLED SUCH THAT THE SIGN IS VISIBLE TO THE TRAVELING PUBLIC. THE COST OF FURNISHING, FABRICATING AND INSTALLING SIGN PANEL W10-1 WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR SIGN PANEL, TYPE 1.

11. SIGN W10-2 SHALL BE INSTALLED ON A TELESCOPING STEEL SIGN SUPPORT AT STA. 1+25 ALONG SB I-57 RAMP D.
12. THE REMOVAL OF THE EXISTING STREET SIGNS WILL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE REMOVED IN ACCORDANCE WITH ARTICLE 107.25. THE EXISTING STREET SIGNS WILL NOT BE RESET UPON COMPLETION OF THE THE CONTRACT. "HONORARY" STREET SIGNS SHALL BE RESET IN ACCORDANCE WITH ARTICLE 107.25.
13. SIGN M4-5 SHALL BE ADDED TO THE EXISTING SIGN ASSEMBLY AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR SIGN PANEL, TYPE 1.



SIGN PANEL (A) DETAIL



PAVEMENT MARKING LEGEND

- |  |   |   |
|--|---|---|
| ① PREFORMED PLASTIC PAVEMENT MARKING, TYPE B- LINE 4" (WHITE)    | ⑩ THERMOPLASTIC PAVEMENT MARKING- LINE 4" (WHITE)   | ⑯ THERMOPLASTIC PAVEMENT MARKING- LETTERS AND SYMBOLS |
| ② PREFORMED PLASTIC PAVEMENT MARKING, TYPE B- LINE 4" (YELLOW)   | ⑪ THERMOPLASTIC PAVEMENT MARKING- LINE 6" (WHITE)   |   |
| ③ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B- LINE 6" (WHITE)    | ⑫ THERMOPLASTIC PAVEMENT MARKING- LINE 12" (WHITE)  |   |
| ④ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B- LINE 12" (YELLOW)  | ⑬ THERMOPLASTIC PAVEMENT MARKING- LINE 4" (YELLOW)  |   |
| ⑤ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B- LINE 24" (WHITE)   | ⑭ THERMOPLASTIC PAVEMENT MARKING- LINE 12" (YELLOW) |   |
| ⑥ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B LETTERS AND SYMBOLS | ⑮ THERMOPLASTIC PAVEMENT MARKING- LINE 24" (WHITE)  |   |

- LEGEND
- EXISTING MOUNTED SIGN
  - PROPOSED MOUNTED SIGN

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 111TH STREET OVER  
 F.A.I ROUTE 57 (INTERSTATE 57)  
**PROPOSED 111TH STREET  
 SIGNING AND  
 PAVEMENT MARKING**  
 SCALE: 1"=20'  
 DATE: 01/16/09  
 DRAWN BY: BRH  
 CHECKED BY: ACL  
**TENG**  
TENG & ASSOCIATES, INC.  
 ENGINEERS/ARCHITECTS/PLANNERS  
 205 N. MICHIGAN AVE., CHICAGO, IL 60601  
 TELEPHONE: 312/616-0000

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**GENERAL LIGHTING NOTES:**

1. THE CITY LIGHT POLES, MAST ARMS AND LUMINAIRES SHALL BE REMOVED BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE THE DELIVERY OF THE POLES WITH THE CITY OF CHICAGO BUREAU OF ELECTRICITY. THE COST OF DELIVERING THE LIGHT POLES AND LUMINAIRES IS INCLUDED IN THIS CONTRACT AND SHALL BE REFLECTED IN THE CONTRACTOR'S BID. NO ADDITIONAL COMPENSATIONS WILL BE ALLOWED.
2. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY CITY STANDARD DRAWINGS FROM THE CITY OF CHICAGO, DEPARTMENT OF STREETS AND SANITATION, BUREAU OF ELECTRICITY. THE COST OF OBTAINING THE STANDARD DETAILS FROM BUREAU OF ELECTRICITY IS INCLUDED IN THIS CONTRACT.
3. FOR MANHOLE INFORMATION, REFER TO THE TRAFFIC SIGNAL PLANS.
4. FOR COMBINATION LIGHT/TRAFFIC MAST ARM ASSEMBLY, THE POLE FOUNDATION AND TRAFFIC SIGNAL ITEMS ARE INCLUDED IN THE TRAFFIC SIGNAL PAY ITEMS. THE LUMINAIRE ARM AND LUMINAIRE ARE INCLUDED IN THE LIGHTING PAY ITEMS.
5. 4-4" GRS CONDUIT ATTACHED TO STRUCTURE UNDER BRIDGE DECK. FOR QUANTITY REFER TO TS-02.
6. PROVIDE A 70A/120V CIRCUIT BREAKER FOR TRAFFIC SIGNAL SERVICE. THIS WORK SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "CONTROLLER, STREET LIGHT, ARTERIAL".

**TEMPORARY LIGHTING NOTES:**

1. EXTRA PRECAUTION MUST BE TAKEN WHEN PLACING STRAPS, MOUNTING CONDUIT AND RUNNING CABLE. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT, TOOLS, AND DEVICES REQUIRED FOR PROPER SERVICE CONNECTIONS. ANY DAMAGES TO THE EXISTING CONTROLLERS OR OTHER EQUIPMENT SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE. ALL TEMPORARY SERVICE AND CONNECTIONS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER LUMP SUM FOR "TEMPORARY LIGHTING SYSTEM."
2. THE CONTRACTOR SHALL UTILIZE THE EXISTING STREET LIGHTING TEMPORARILY AS INDICATED ON THE PLAN. PROVIDE AERIAL CABLES, SECONDARY RACKS, SPLICE KITS, ETC., AS REQUIRED TO CONTINUE THE EXISTING LIGHTING CIRCUIT AS SHOWN TO THE NEARBY FIXTURES. ALL TEMPORARY STREET LIGHTING SERVICES, FIELD INVESTIGATIONS, CONNECTIONS, POLES, CABLES ETC. SHALL BE PAID FOR AS PART OF THE CONTRACT UNIT PRICE PER LUMP SUM FOR "TEMPORARY LIGHTING SYSTEM."
3. CONTRACTOR TO CLEAN-UP AND RESTORE AREA TO THE SATISFACTION OF THE RESIDENT ENGINEER. ALL WORK SHALL BE DONE IN A WORKMANSHIP MANNER. POLES SHALL BE STRAIGHT AND PLUMB. WIRES SHALL BE TRAINED AND TIED. THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER LUMP SUM FOR "TEMPORARY LIGHTING SYSTEM."
4. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND SCHEDULING ALL TEMPORARY AND PERMANENT INSTALLATIONS WITH THE CONSTRUCTION SCHEDULE. FINAL COORDINATION AND SEQUENCING SHALL BE APPROVED BY CDOT MAINTENANCE OF TRAFFIC AND THE ENGINEER.
5. WOOD POLES SHALL BE FULL-TREATED SOUTHERN PINE, DOUGLAS FIR, OR WESTERN RED CEDAR CONFORMING TO THE AMERICAN NATIONAL STANDARD SPECIFICATIONS AND DIMENSIONS FOR WOOD POLES. THE PRESERVATIVE TREATMENT SHALL CONFORM TO THE AMERICAN WOOD PRESERVERS ASSOCIATION STANDARD C4. THE DOWN GUY FOR WOOD POLES SHALL MEET THE REQUIREMENT OF ASTM A 475 UTILITY GRADE OR BETTER.

**ELECTRICAL WORK - BILL OF MATERIALS**

ITEM	UNIT	QUANTITY
CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC (SCHEDULE 80)	FOOT	510
PVC CONDUIT IN TRENCH 2" (SCHEDULE #80)	FOOT	1100
CONCRETE FOUNDATION, 24" DIA.	FOOT	27
* POLE, STEEL, ANCHOR BASE, 8 1/2" DIAMETER, 7 GAUGE, 32'-6"	EACH	2
* POLE, STEEL, ANCHOR BASE, 10" DIAMETER, 7 GAUGE, 34'-6"	EACH	0
* POLE, ALUMINUM, ARTERIAL, DAVIT, 15" BOLT CIRCLE	EACH	4
* MAST ARM, DAVIT, ALUMINUM, ARTERIAL, 12 FOOT	EACH	4
* MAST ARM, STEEL STREET LIGHTING 12'	EACH	15
* LUMINAIRE, STREET LIGHTING HIGH PRESSURE SODIUM VAPOR 400 WATT, 240 VOLT	EACH	19
ELECTRICAL CABLE IN CONDUIT, TRIPLEX NO. 6, 2-1C AND NO.8, 1-1C	FOOT	1550
REMOVE EXISTING STREET LIGHTING EQUIPMENT	L SUM	1
BREAKDOWN STREET LIGHT FOUNDATION	EACH	3
TEMPORARY LIGHTING SYSTEM	L SUM	1
TRENCH AND BACKFILL WITH SCREENING	FOOT	1100
DRILL EXISTING MANHOLE OR HANDHOLE	EACH	29
SERVICE INSTALLATION, 100 AMP	EACH	1
SERVICE CONNECTION TO CECO LINE	EACH	1
SERVICE CABLE, 3/C#2	FOOT	150
CONTROLLER, STREET LIGHT, ARTERIAL	EACH	1
PICKUP, TRANSPORTATION AND INSTALLATION OF LIGHT POLES, MAST ARMS AND LUMINAIRES	L.SUM	1
MAINTENANCE OF STREET LIGHTING SYSTEM (CITY OF CHICAGO)	L SUM	1

\* THESE ITEMS WILL NOT BE PAID SEPARATELY BUT SHALL BE INCLUDED IN THE LUMP SUM COST OF PAY ITEM PICKUP, TRANSPORTATION AND INSTALLATION OF LIGHT POLES, MAST ARMS AND LUMINAIRES

**LEGEND**

PROP.	EXIST.	
		MANHOLE
		LUMINAIRE, H.P.S.V. AND LAMP, 400W, 240V, WITH INTEGRAL BALLAST
		LUMINAIRE, H.P.S.V. AND LAMP, 310W, 240V, WITH INTEGRAL BALLAST
		LUMINAIRE, H.P.S.V. AND LAMP, 195W, 240V, WITH INTEGRAL BALLAST
-2N-	-2N-	CABLE, STREET LIGHT, 2 1/C-#6, 600V. RINS IN PARKWAY
-2NG-	-2NG-	CABLE, STREET LIGHT, 2 1/C-#6, 600V. RINS IN CONDUIT
-3TC-	-3TC-	CABLE, STREET LIGHT, 2 1/C-#6 EPRN 600V. & 1 1/C-#8 GREEN, TRIPLEXED IN CONDUIT
-3NG-	-3NG-	CABLE, STREET LIGHT, 3 1/C-#1/0, 600V. EPR IN CONDUIT
		CONTROLLER, STREET LIGHTING, PEDESTAL OR BASE MOUNTED
		POLE, CITY STEEL, ANCHOR BASE, 34'-6", 7 GA., 10" DIA. AND 15" BOLT CIRCLE AND FND. WITH 1/4" ANCHOR RODS
		POLE, CITY STEEL, ANCHOR BASE, 32'-6", 7 GA., AND FND. WITH 1 1/2" B.C. AND 1" ANCHOR RODS
		REFER TO TRAFFIC SIGNAL PLANS FOR DESCRIPTION
		REFER TO TRAFFIC SIGNAL PLANS FOR DESCRIPTION
		4-4" RGS ATTACHED TO STRUCTURE UNDER BRIDGE DECK
---	---	CONDUIT-SIZE & TYPE AS NOTED
		POLE, CITY ALUMINUM ANCHOR BASE WITH DAVIT

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
111TH STREET OVER  
F.A.I ROUTE 57 (INTERSTATE 57)

LEGEND, NOTES AND  
SCHEDULE OF QUANTITIES

SCALE: NONE  
DATE: 01/16/09

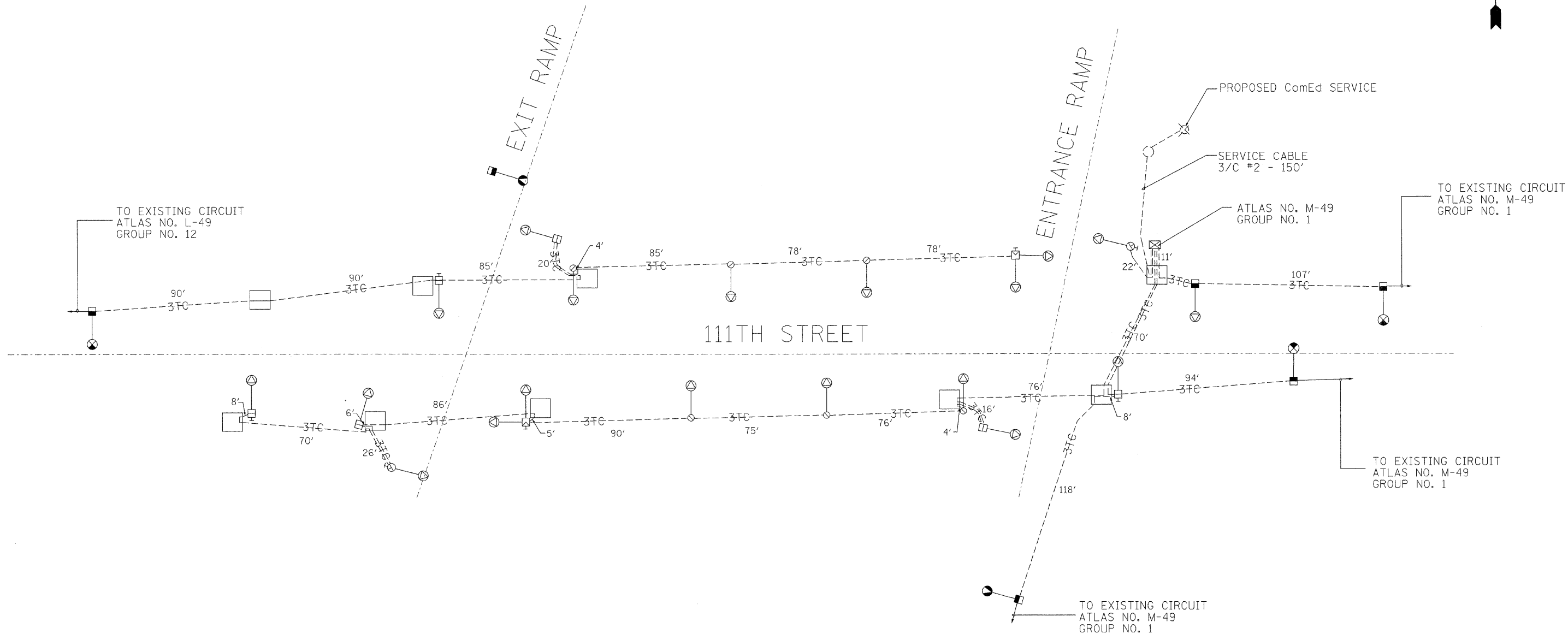
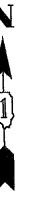
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**TENG**  
TENG & ASSOCIATES, INC.  
ENGINEERS/ARCHITECTS/PLANNERS  
205 N. MICHIGAN AVE. CHICAGO, IL 60601  
TELEPHONE: 312/616-0000

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.1B-R	COOK	101	028
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62532				



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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 111TH STREET OVER  
 F.A.I ROUTE 57 (INTERSTATE 57)

**WIRING DIAGRAM**

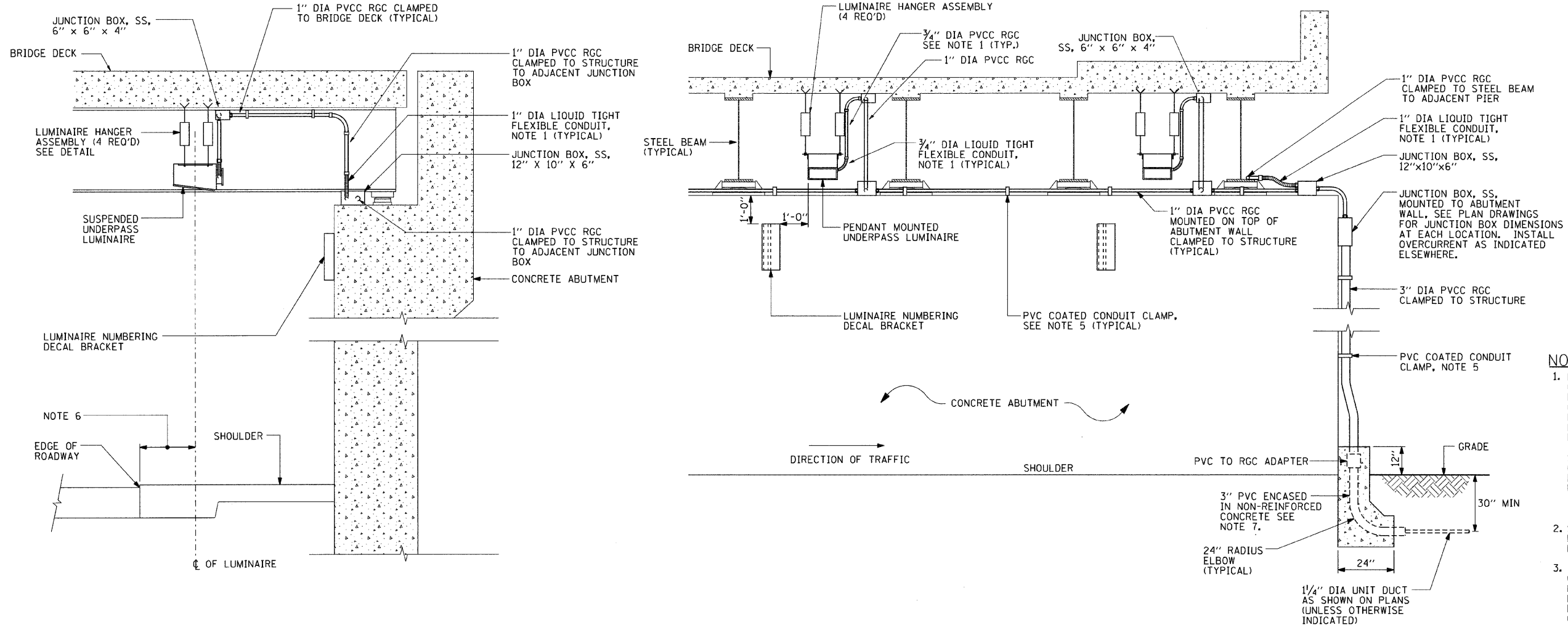
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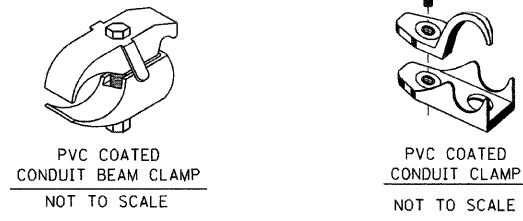
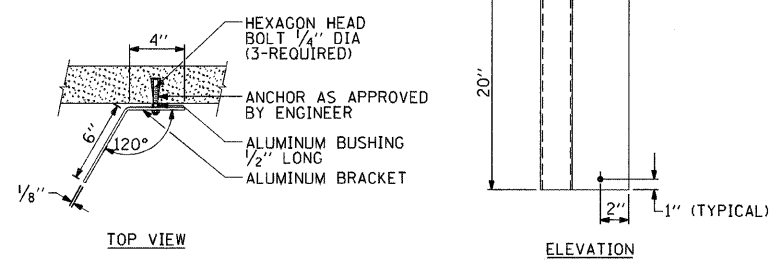
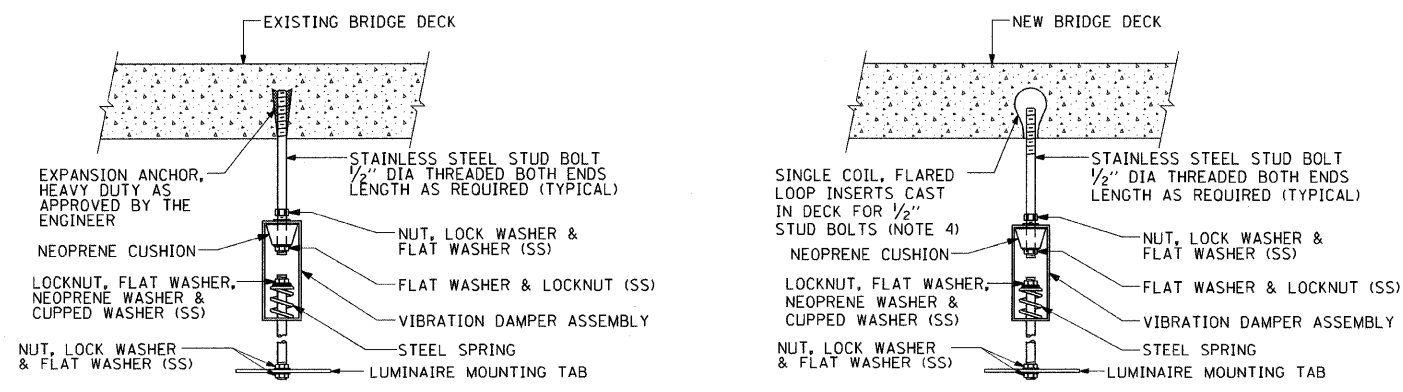
**TENG**  
 TENG & ASSOCIATES, INC.  
 ENGINEERS/ARCHITECTS/PLANNERS  
 205 N. MICHIGAN AVE., CHICAGO, IL 60601  
 TELEPHONE: 312.915-2000



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			101	030
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



- NOTES:**
- LIQUID TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM LENGTH 6'-0", TYPICAL FOR EACH INSTANCE AS SHOWN. PROVIDE PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED NOT TO EXCEED 6'-0" OF FLEXIBLE LIQUID TIGHT METAL CONDUIT. LIQUID TIGHT FLEXIBLE METAL CONDUIT WILL BE INCLUDED IN THE COST OF THE CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED PAY ITEM EXCEPT THAT 3/4" DIA. CONDUIT AND 1/2" DIA. FLEXIBLE CONDUIT SHALL BE INCLUDED IN THE COST OF UNDERPASS LUMINAIRE INSTALLATION.
  - SEE UNDERPASS LIGHTING PLANS FOR INSTALLATION LOCATION OF UNDERPASS LIGHTING LUMINAIRES.
  - THE CONTRACTOR SHALL USE APPROVED SINGLE COIL FLARED LOOP INSERTS WHEN SUSPENDING AN UNDERPASS LUMINAIRE TO A NEW BRIDGE DECK. THE FLARED LOOP INSERTS MUST BE CAST INTO THE CONCRETE DECK. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND COORDINATING THE INSERT LOCATIONS FOR MOUNTING THE UNDERPASS LIGHTING SYSTEM AS SHOWN ON THE PLANS WITH THE BRIDGE DECK CONTRACTOR. SEE DETAIL.
  - THE UNDERPASS LUMINAIRE HANGER ASSEMBLY COMPLETE WITH HEAVY DUTY ANCHORS/INSERTS AND ALL APPLICABLE HARDWARE SHALL BE INCLUDED IN THE COST OF THE UNDERPASS LUMINAIRE PAY ITEM.
  - SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS SHALL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM.
  - ALL UNDERPASS LUMINAIRES MUST BE CENTERED IN THE BEAM SPACE AS INDICATED ON THE PLANS UNLESS OTHERWISE DIRECTED BY THE ENGR. LUMINAIRE SETBACK SHALL BE AS INDICATED IN PLANS FOR EACH SPECIFIC UNDERPASS
  - THE CONCRETE ENCASED CONDUIT TRANSITION SHALL BE INCLUDED IN THE COST OF THE GALVANIZED RIGID STEEL CONDUIT PAY ITEMS.
  - ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.



EXISTING BRIDGE DECK INSTALLATION

NEW BRIDGE DECK INSTALLATION

TYPICAL LUMINAIRE HANGER ASSEMBLY DETAILS

REVISIONS	
NAME	DATE
	12/12/05






ILLINOIS DEPARTMENT OF TRANSPORTATION

SUSPENDED MOUNT UNDERPASS LUMINAIRE INSTALLATION DETAILS

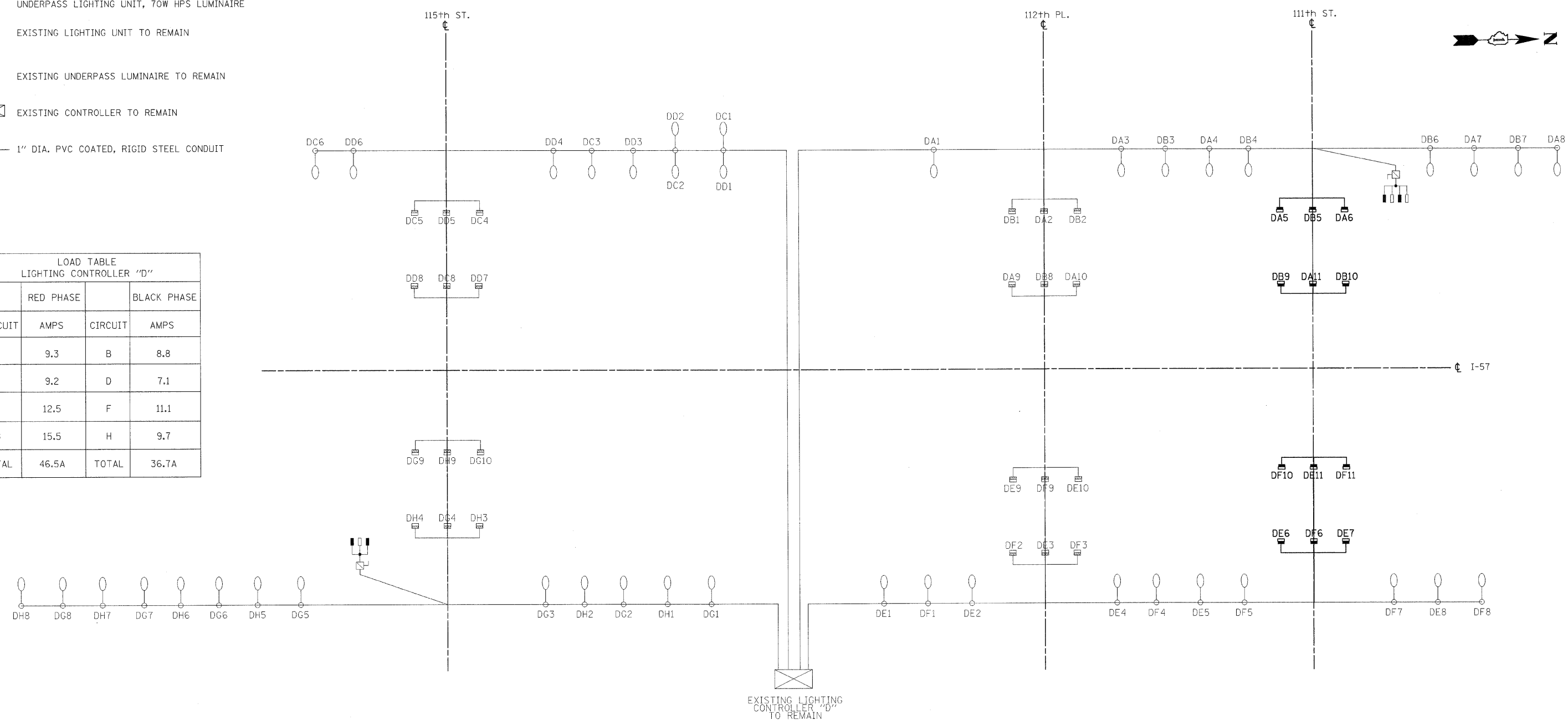
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LEGEND:

-  UNDERPASS LIGHTING UNIT, 70W HPS LUMINAIRE
-  EXISTING LIGHTING UNIT TO REMAIN
-  EXISTING UNDERPASS LUMINAIRE TO REMAIN
-  EXISTING CONTROLLER TO REMAIN
-  1" DIA. PVC COATED, RIGID STEEL CONDUIT

	RED PHASE		BLACK PHASE
CIRCUIT	AMPS	CIRCUIT	AMPS
A	9.3	B	8.8
C	9.2	D	7.1
E	12.5	F	11.1
G	15.5	H	9.7
TOTAL	46.5A	TOTAL	36.7A



DRAWING FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
111TH STREET OVER  
F.A.I ROUTE 57 (INTERSTATE 57)

WIRING DIAGRAM

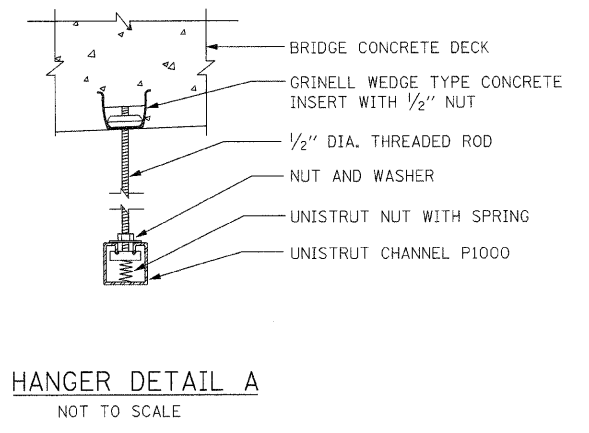
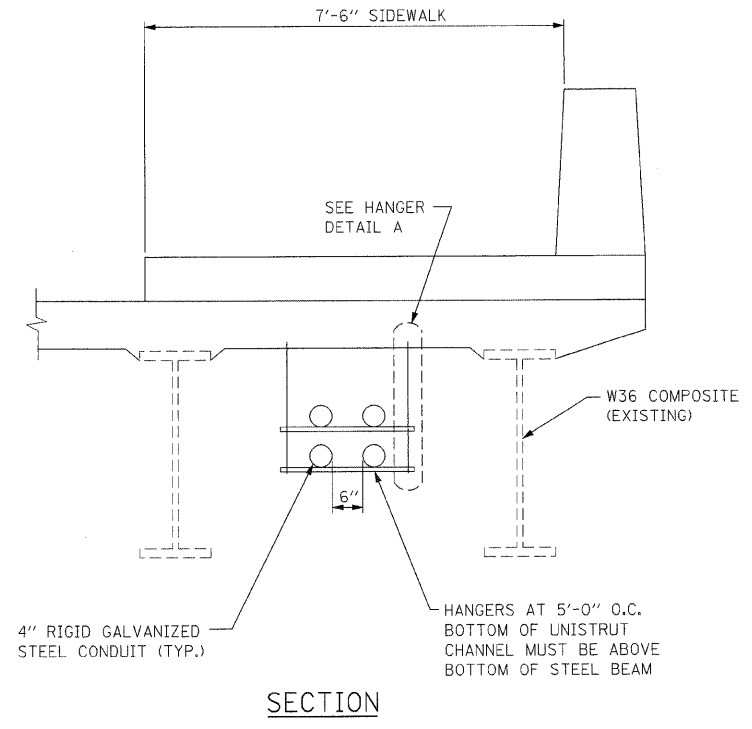
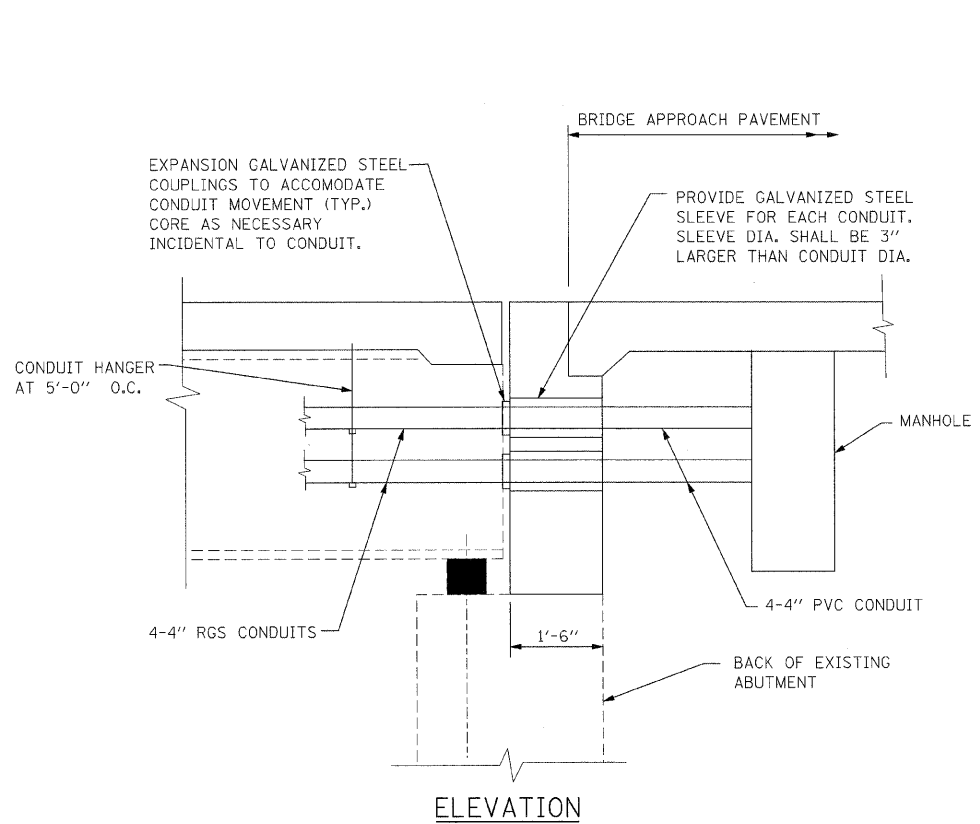
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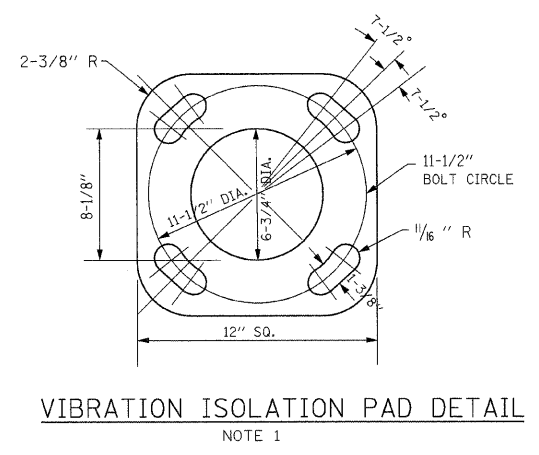
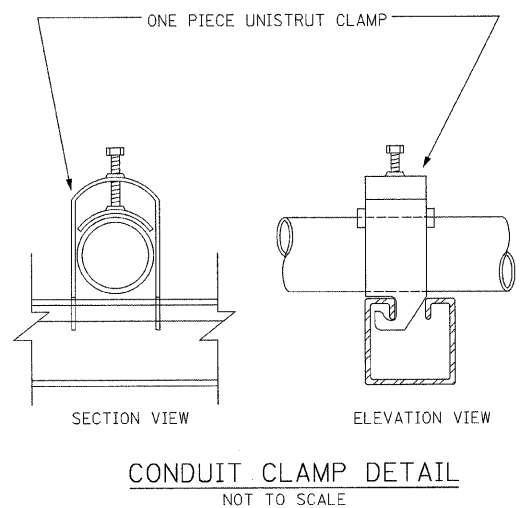
**TENG**  
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205 N. MICHIGAN AVE. - CHICAGO, IL 60601  
TELEPHONE: 312/616-0000

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.1B-R	COOK	101	032
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62532				



**EXPANSION COUPLING DETAIL**  
NOT TO SCALE



NOTE 1:  
BRIDGE MOUNTED POLES WILL HAVE 1/2 in. THICK VIBRATION ISOLATION MOUNTING PAD INCLUDED WITH THE POLE. THE PAD SHALL HAVE THE SAME SHAPE AS THE BOTTOM OF THE POLE BASE WITH APPROPRIATE BOLT HOLES AND OPENING FOR THE CENTER OF THE POLE. INCLUDED WITH THE PAD SHALL BE FOUR 10 mm (3/8") THICK WASHERS. THE PAD AND WASHERS SHALL BE MADE FROM THE RUGGED ELASTOMERIC MATERIAL. THE ULTIMATE BREAKDOWN OF THE PAD AND WASHERS UNDER COMPRESSIVE LOAD SHALL BE NOT LESS THAN 69,000 KPA (10,000 psi) FOR THE SPECIFIED THICKNESS WITHOUT EXTRUSION OR DETRIMENTAL REDUCTION IN THICKNESS. THE MATERIAL SHALL ALSO HAVE A SHORE A DUROMETER READING OF NOT LESS THAN 80.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
111TH STREET OVER  
F.A.I ROUTE 57 (INTERSTATE 57)

MISCELENEOUS DETAILS

SCALE: NONE  
DATE: 01/16/09

DRAWN BY: ACL  
CHECKED BY: PR

**TENG**  
TENG & ASSOCIATES, INC.  
ENGINEERS/ARCHITECTS/PLANNERS  
205 N. MICHIGAN AVE., CHICAGO, IL 60601  
TELEPHONE: 312/615-0000

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 HECHTBR



**BILL OF MATERIALS - TRAFFIC SIGNAL WORK**

DESCRIPTION	UNIT	TOTAL QUANTITY	111TH ST & MARSHFIELD	111TH ST & HAMLET AVE
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4	2	2
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	12	7	5
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2	1	1
SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2	1	1
PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED	EACH	12	6	6
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2	1	1
ROD AND CLEAN DUCT IN EXISTING CONDUIT SYSTEM	FOOT	1925	1025	900
CONCRETE FOUNDATION FOR TYPE "P" BASE MOUNTED TRAFFIC SIGNAL CONTROLLER	EACH	2	1	1
CONCRETE FOUNDATION 24" DIA.	FOOT	45	27	18
CONCRETE FOUNDATION 30" DIA.	FOOT	22	11	11
STREET NAME SIGN	EACH	7	4	3
REMOVE EXISTING TRAFFIC SIGNAL FOUNDATION	EACH	7	4	3
SOLID STATE FULL-ACTUATED CONTROLLER, 4-PHASE DIGITAL TIMING WITH SOLID STATE TIME BASE COORDINATOR IN BASE MOUNTED CABINET	EACH	2	1	1
PVC CONDUIT IN TRENCH 3" (SCHEDULE #80)	FOOT	112	35	77
PVC CONDUIT IN TRENCH 4" (SCHEDULE #80)	FOOT	151	110	41
MAST ARM, STEEL, MONOTUBE 20 FT.	EACH	3	2	1
MAST ARM, STEEL, MONOTUBE 26 FT.	EACH	2	1	1
MAST ARM, STEEL, MONOTUBE 35 FT.	EACH	2	1	1
ELECTRIC CABLE IN CONDUIT NO. 12 19/C	FOOT	1087	724	363
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	L SUM	1	0.5	0.5
SIGN, MESSAGE, ELECTRICALLY ILLUMINATED, FIBER OPTIC, MAST ARM MOUNTED	EACH	4	2	2
SIGN, MESSAGE, ELECTRICALLY ILLUMINATED, FIBER OPTIC, BRACKET MOUNTED	EACH	4	2	2
JUNCTION BOX, POLE OR POST MOUNTED	EACH	10	6	4
DRILL EXISTING MANHOLE OR HANDHOLE	EACH	15	8	7
COILABLE CONDUIT INSTALLATION BY DIRECTIONAL BORING	FOOT	948	498	450
PVC CONDUIT ATTACHED TO STRUCTURE 3" (Schedule #80)	FOOT	950	950	-
POLE, CITY, STEEL ANCHOR BASE 10" DIAMETER, 3 GAUGE, 32'-6"	EACH	2	1	1
POLE, CITY, STEEL ANCHOR BASE 10" DIAMETER, 3 GAUGE, 34'-6"	EACH	8	5	3
ELECTRIC CABLE IN CONDUIT NO. 4 2/C	FOOT	195	145	50
ELECTRIC CABLE IN CONDUIT NO. 12 7/C	FOOT	575	575	-
TRENCH AND BACKFILL WITH SCREENING	FOOT	214	117	97

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TS-1

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 111TH STREET OVER  
 F.A.I ROUTE 57 (INTERSTATE 57)  
  
**TRAFFIC SIGNAL**  
**SUMMARY OF QUANTITIES**

SCALE: NONE  
 DATE: 01/16/09  
 DRAWN BY: ACL  
 CHECKED BY: RMW

**TENG**  
TENG & ASSOCIATES, INC.  
 ENGINEERS/ARCHITECTS/PLANNERS  
 209 N. MICHIGAN AVE., CHICAGO, IL 60601  
 TELEPHONE: 312.916.2000





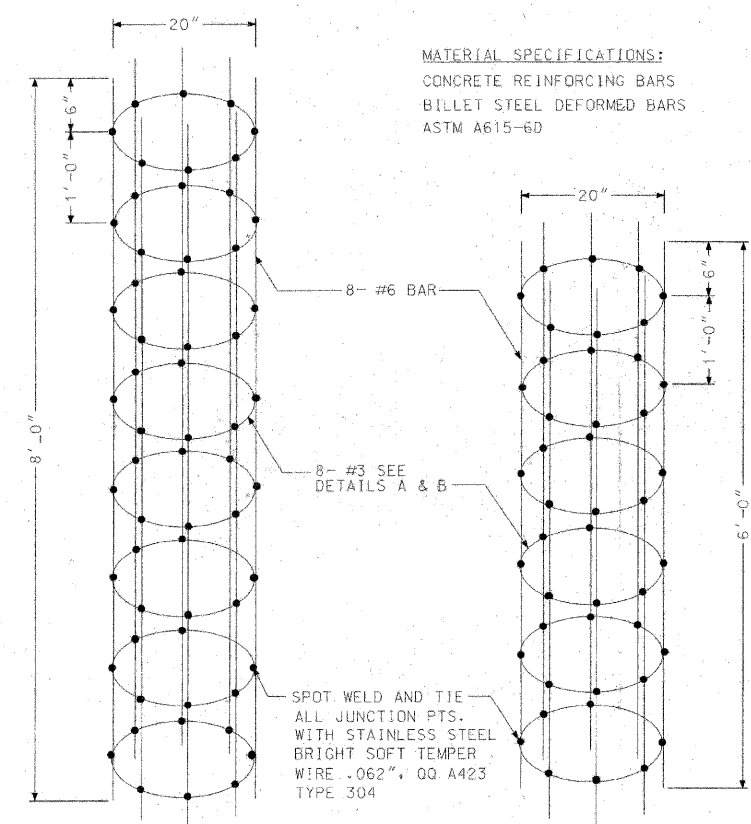




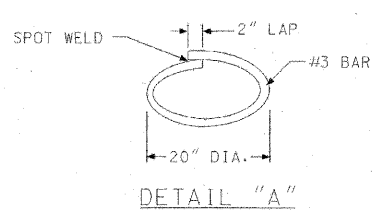
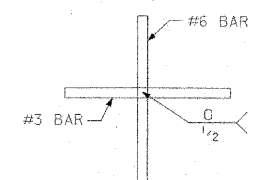




F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.1B-R	COOK	101	039
STA.	TO STA.			
FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT
CONTRACT NO. 62532				



CODE	COMMODITY	SIZE	QUANTITY
20-9545-	ROD, WELDING LINCOLN WELD OR EQUAL	#7018	5#
31-	WIRE, TIE STEEL, STAINLESS, QQ W423 COND. 'A' SOFT	.062	1.0#

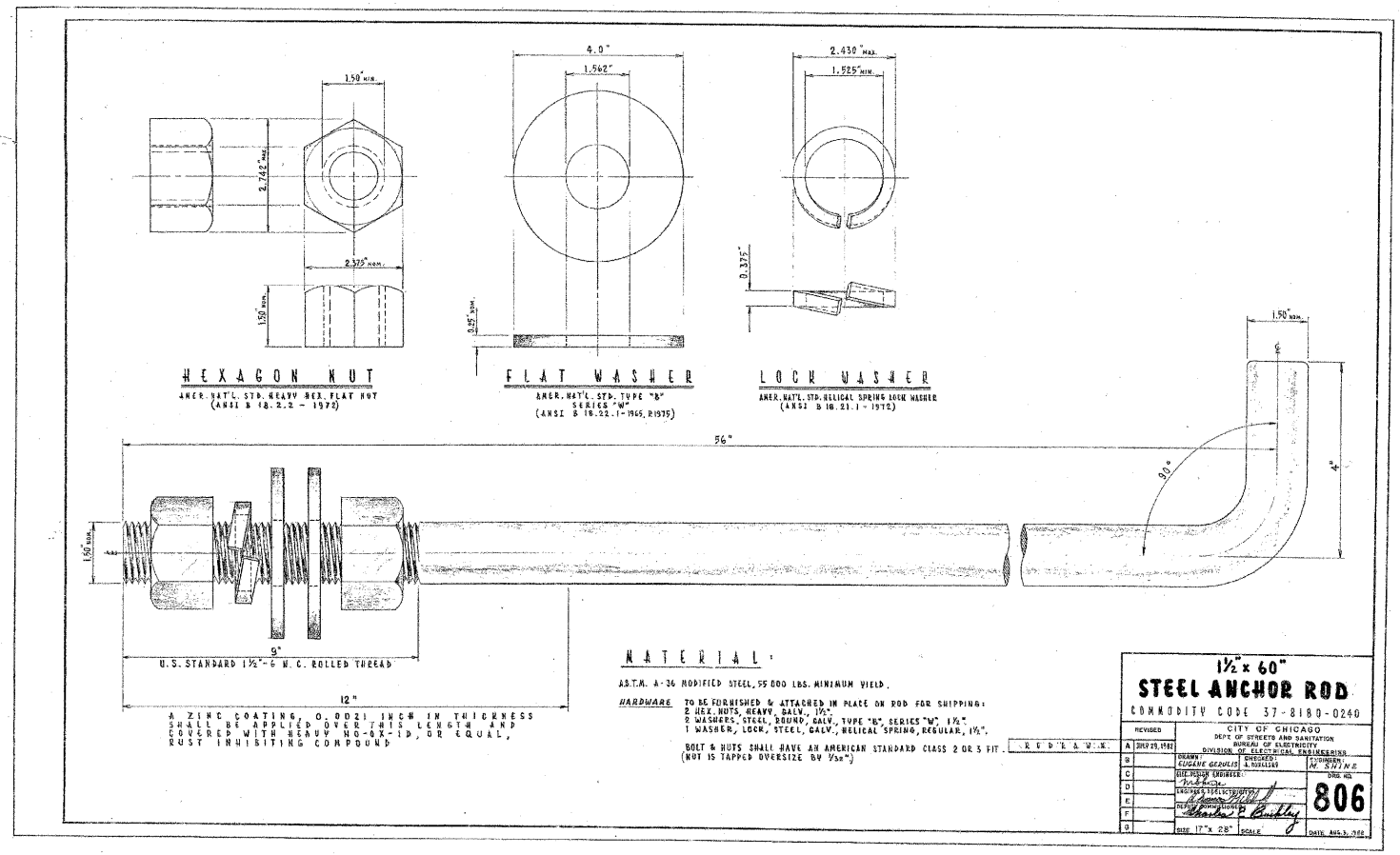


REVISION	DATE

**STEEL CAGES FOR POLE FOUNDATIONS**

CITY OF CHICAGO  
DEPT. OF STREET AND SANITATION

DESIGNED BY: [Signature] DATE: 7/93A  
CHECKED BY: [Signature] DATE: 7/93A  
DRAWN BY: [Signature] DATE: 7/93A



<b>1 1/2 x 60" STEEL ANCHOR ROD</b>	
COMMODITY CODE 57-8180-0240	
REVISED	CITY OF CHICAGO
A	DEPT. OF STREET AND SANITATION
B	DIVISION OF ELECTRICAL ENGINEERING
C	DESIGNED BY: [Signature]
D	CHECKED BY: [Signature]
E	DRAWN BY: [Signature]
F	DATE: 7/93A
G	SCALE: 1/2" = 1'-0"

4-NORTH ST. BOPEBERGON  
 1-16-2003, 1146-63  
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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
111TH STREET OVER  
F.A.I ROUTE 57 (INTERSTATE 57)

ELECTRICAL STANDARD DETAILS

SCALE: NONE  
DATE: 01/16/09  
DRAWN BY: N/A  
CHECKED BY: N/A

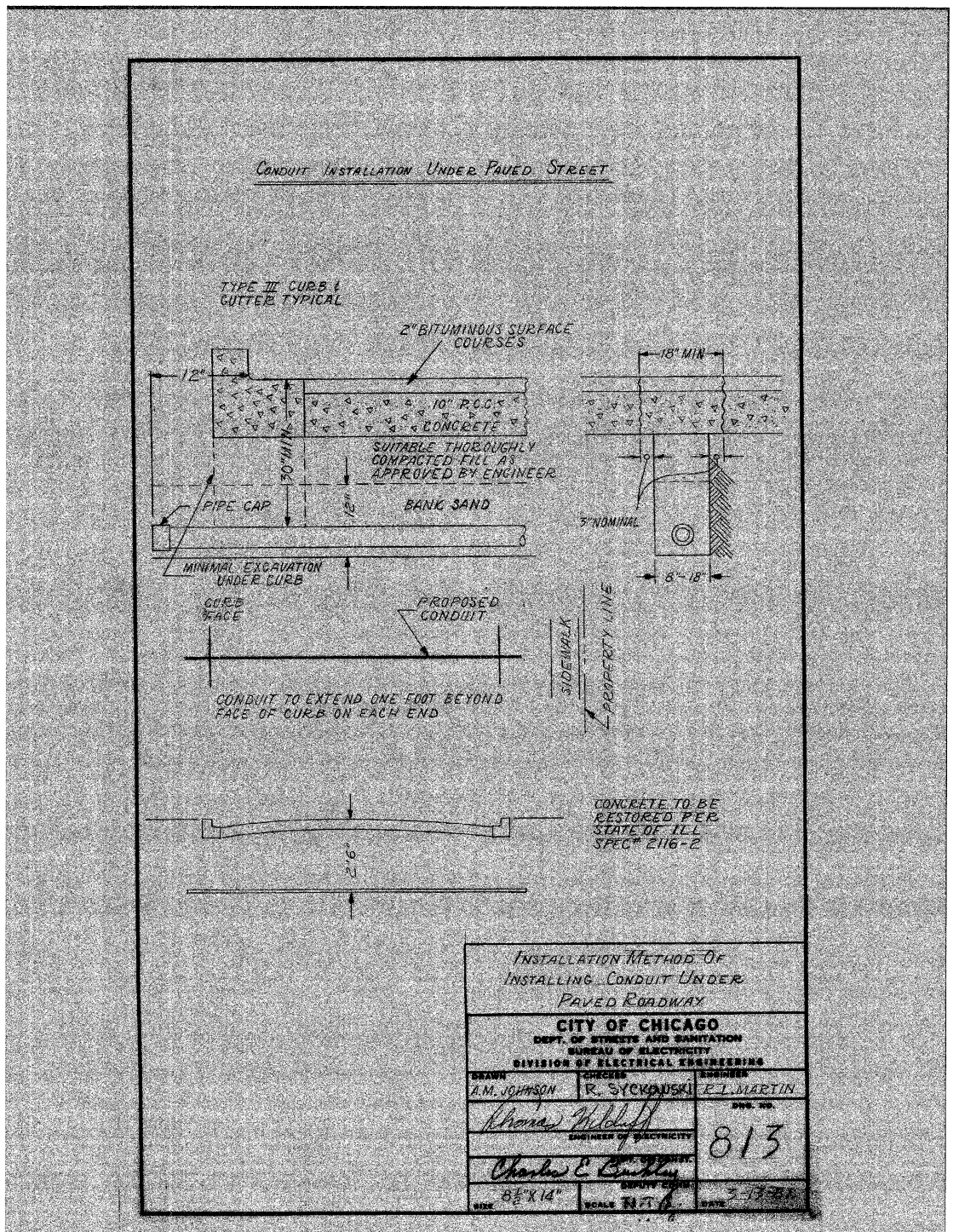
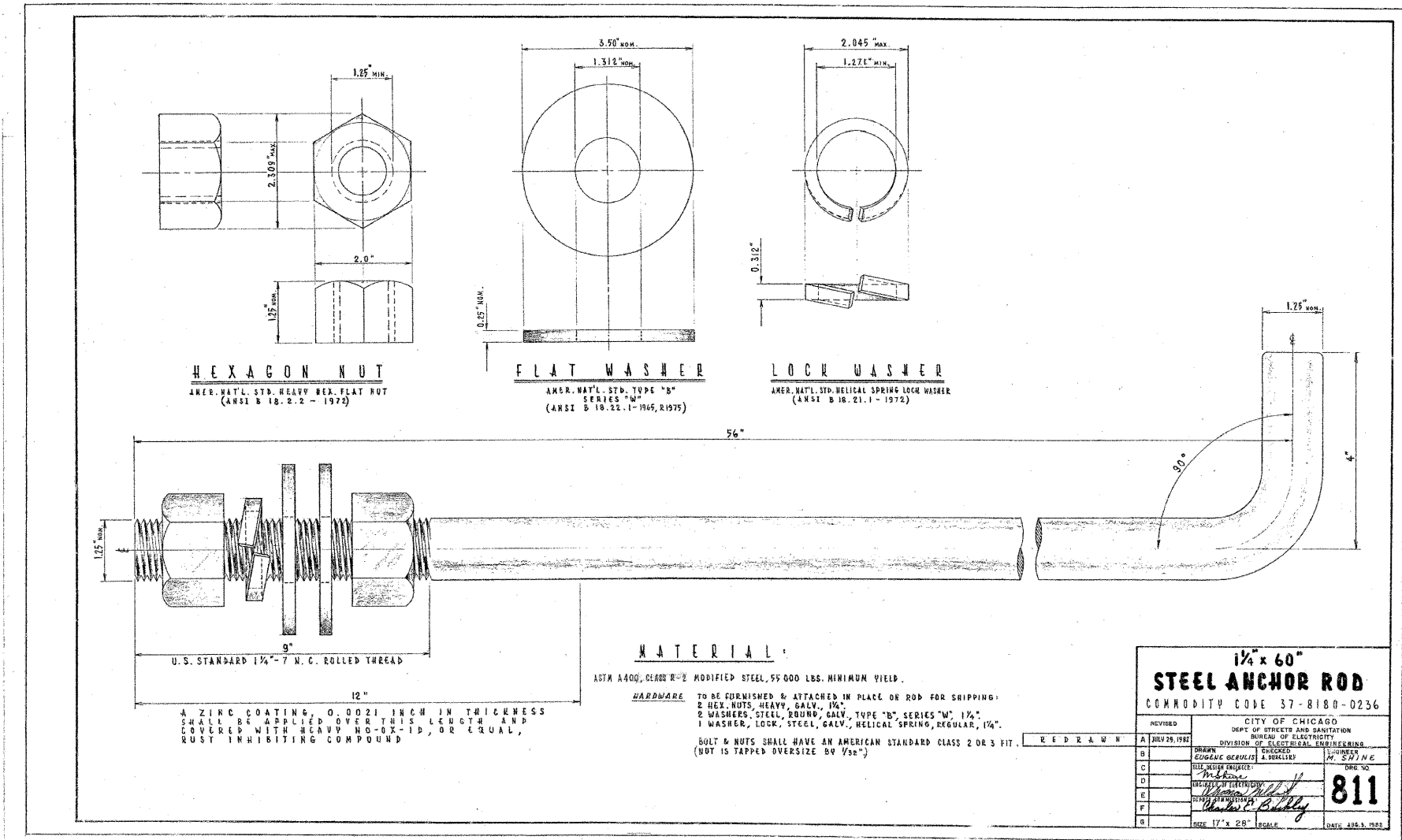
**TENG**

TENG & ASSOCIATES, INC.  
ENGINEERS/ARCHITECTS/PLANNERS  
205 N. MICHIGAN AVE., CHICAGO, IL 60601  
TELEPHONE: 312/615-0000

ES-03



F.A.I. RTEL.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.16-R	COOK	101	040
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62532				



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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
111TH STREET OVER  
F.A.I ROUTE 57 (INTERSTATE 57)

ELECTRICAL STANDARD DETAILS

SCALE: NONE  
DATE: 01/16/09

DRAWN BY: N/A  
CHECKED BY: N/A

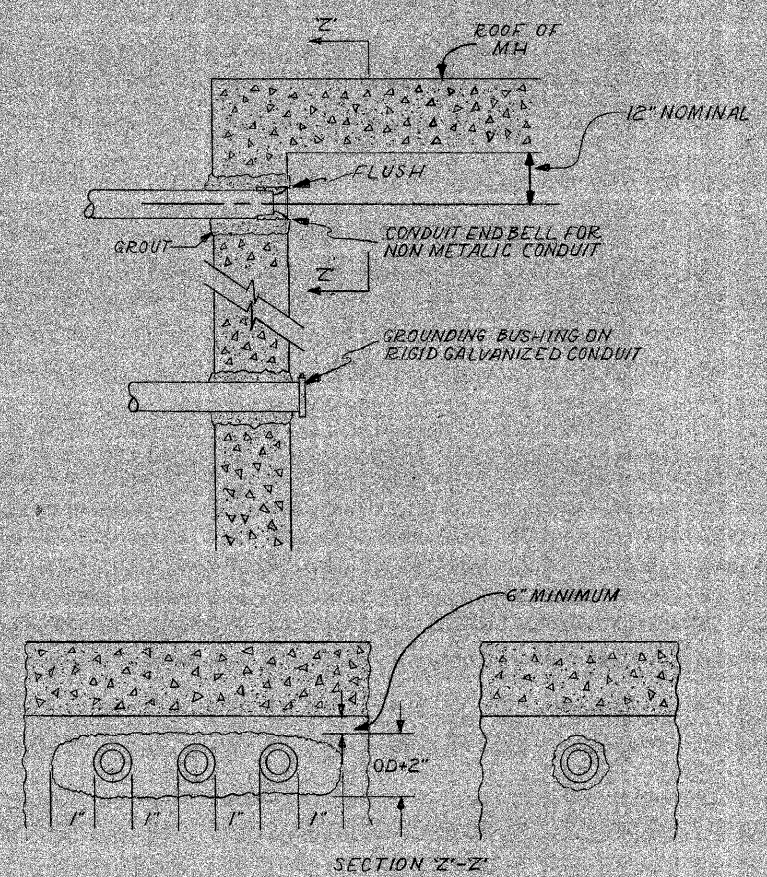
**TENG**  
TENG & ASSOCIATES, INC.  
ENGINEERS/ARCHITECTS/PLANNERS  
205 N. MICHIGAN AVE. CHICAGO, IL 60601  
TELEPHONE: 312/616-0000

ES-04



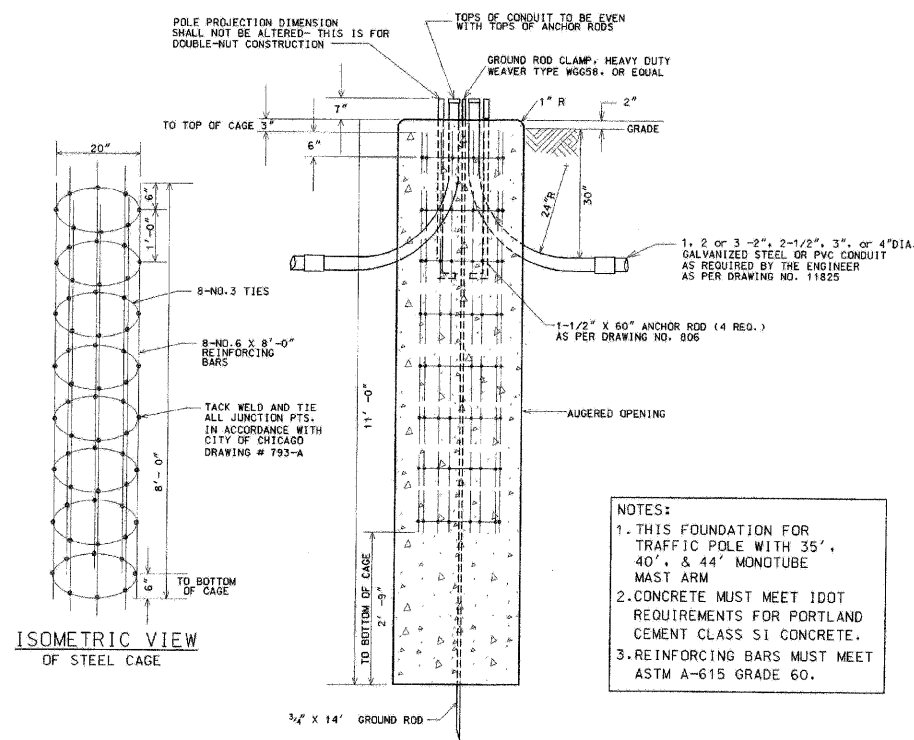
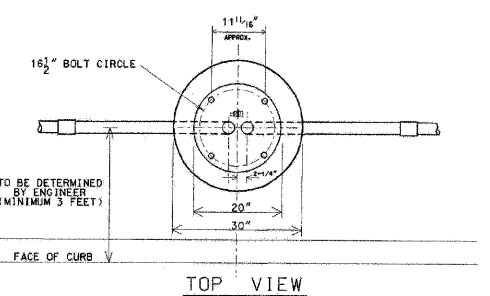
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.1B-R	COOK	101	041
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
CONTRACT NO. 62532				

CONDUIT INSTALLATION THROUGH EXISTING MANHOLE OR HANDHOLE WALL



OPENING THROUGH WALL TO BE KEPT TO MINIMUM SIZE TO ADMIT CONDUIT AND SUFFICIENT GROUT TO ASSURE SEALING WALL.

INSTALLATION METHOD OF INSTALLING CONDUIT THRU MANHOLE WALL		
CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING		
DRAWN A.M. JOHNSON	CHECKED R. SYCKOWSKI	ENGINEER R.L. MARTIN
 ENGINEER OF ELECTRICITY 814		DRG. NO. 814
SIZE 8 1/2" X 14"	SCALE N.T.S.	DATE 2-13-01



- NOTES:
- THIS FOUNDATION FOR TRAFFIC POLE WITH 35', 40', & 44' MONOTUBE MAST ARM
  - CONCRETE MUST MEET IDOT REQUIREMENTS FOR PORTLAND CEMENT CLASS S1 CONCRETE.
  - REINFORCING BARS MUST MEET ASTM A-615 GRADE 60.

CODE	COMMODITY	SIZE	QUANTITY
05-3267-2940	RED-MIX CONCRETE	CU. YD.	2.20
09-4001-	ELBOW, LARGE RADIUS	2" x 2-1/2" x 3" x 4"	AS REQUIRED
37-8180-0200	ANCHOR ROD	1-1/2" x 60"	4
05-5054-6910	RE-BAR CAGE	20" x 8'-0"	1
09-7796	GROUND ROD	3/4" x 14'-0"	1
09-2436-	GROUND ROD CLAMP	3/4"	1
09-2092-	GROUND BUSHING	2" x 2-1/2" x 3" x 4"	AS REQUIRED

8/21/02	SUPERCEDES DWG #B17 DRAWN 4/20/01
DATE	REVISION
FOUNDATION FOR 34'-6" TRAFFIC SIGNAL POLE WITH 16 1/2" BOLT CIRCLE	
CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING	
DRAFTSMAN B. CARNSEY	CHECKED R. CARTER
ELECTRICAL ENGINEER	ENGINEER
817	DRAWING NO.
11" x 17"	SCALE: NONE
	DATE: 8/21/02

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
111TH STREET OVER  
F.A.I. ROUTE 57 (INTERSTATE 57)  
ELECTRICAL STANDARD DETAILS

SCALE: NONE  
DATE: 01/16/09  
DRAWN BY: N/A  
CHECKED BY: N/A

**TENG**  
TENG & ASSOCIATES, INC.  
ENGINEERS/ARCHITECTS-PLANNERS  
205 N. MICHIGAN AVE., CHICAGO, IL 60601  
TELEPHONE: 312/616-0000

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 HFC/RRB



PROPOSED	PRESENT	
		SIGNAL, TRAFFIC 3 SECTION 1-WAY ADJUSTABLE, 12" OR AS NOTED
		SIGNAL, TRAFFIC 3 SECTION 2-WAY ADJUSTABLE, 12" OR AS NOTED
		SIGNAL OPTICALLY PROGRAMMED
		SIGNAL, PEDESTRIAN, DON'T WALK/WALK
		SIGNAL FACE ARROW, 12" COLOR AS NOTED
		SIGNAL FACE, 1 SECTION YELLOW/GREEN ARROW DUAL INDICATION
		PUSH BUTTON, PEDESTRIAN
		SIGN, ILLUMINATED, WITH MESSAGE OR SYMBOL AS INDICATED
		MAST ARM, MONOTUBE, STEEL, SIZE AS INDICATED (SEE DWG. #870)
		MAST ARM, TRUSS, ALUMINUM, SIZE AS INDICATED
		CONTROLLER, TRAFFIC SIGNAL, PEDESTAL OR BASE MOUNTED AS INDICATED
		CONTROLLER, STREET LIGHTING, PEDESTAL OR BASE MOUNTED. (DWG. 876 or 880)
		CONTROLLER, STREET LIGHTING, POLE MOUNTED (DWG. #11940)
		POLE, WOOD, COMMONWEALTH EDISON COMPANY, SERVICE
		POLE, CITY STEEL, ANCHOR BASE, 34'-6", 7 GA., 10" DIA. AND 15" B.C. 24"x9" FND. W/1/4" ANCHOR RODS DRG. #818.
		POLE, CITY STEEL, ANCHOR BASE, 34'-6", 3 GA., 10" DIA. AND 15" B.C. 24"x9" FND. W/1/4" ANCHOR RODS DRG. #818 (16', 20' or 26' M.A.)
		POLE, CITY STEEL, ANCHOR BASE, 34'-6", 3 GA., 11" DIA. AND 17 1/2" B.C. 30"x9" FND. W/1/4" ANCHOR RODS DRG. #816. (30' M.A.)
		POLE, CITY STEEL, ANCHOR BASE 34'-6", 3 GA., 12 1/2" DIA. AND 16 1/2" B.C. 30"x11" FND. W/1/2" ANCHOR RODS DRG. #817. (35", 40' or 44' M.A.)
		POLE, CITY STEEL, ANCHOR BASE, 32'-6", 3 GA., 10" DIA., WITH 3 GA. BAL. HSG. BASE AND 17 1/4" B.C. ON 30"x9" FND. W/ 11/4" ANCHOR RODS DRG. #816.
		POLE, CITY STEEL, ANCHOR BASE, 20', 27'-6", 29'-6", 7 GA. WITH STEEL BAL. HSG. BASE AND FND. W/10" D. B.C. AND 1" ANCHOR RODS DRG. #716.
		POLE, CITY STEEL, ANCHOR BASE, 20', 27'-6", 29'-6", 3 GA., WITH STEEL BAL. HSG. BASE AND FND. W/10" D. B.C. AND 1" ANCHOR RODS DRG. #719.
		POLE, CITY STEEL, ANCHOR BASE, 20', 27'-6", 29'-6" 7 GA., AND FND. WITH 10" B.C. AND 1" ANCHOR RODS DRG. #11408B.
		POLE, CITY STEEL, ANCHOR BASE, 20', 27'-6", 29'-6" 3 GA., AND FND. WITH 10" B.C. AND 1" ANCHOR RODS DRG. #11408B.
		POLE, CITY STEEL, ANCHOR BASE, 32'-6", 7 GA., AND FND. WITH 11 1/2" B.C. AND 1" ANCHOR RODS DRG. #753.
		POLE, CITY STEEL, ANCHOR BASE, 32'-6", 3 GA., AND FND. WITH 11 1/2" B.C. AND 1" ANCHOR RODS DRG. #753.
		POLE, CITY STEEL, ANCHOR BASE, 32'-6" 7 GA., ALUM. BHB AND FND. WITH 15" B.C.-24"x7" WITH 1" ANCHOR RODS DRG. #691.
		POLE, CITY STEEL, ANCHOR BASE, 32'-6", 3 GA., ALUM. BHB AND FND. WITH 15" B.C. 24"x7" WITH 1" ANCHOR RODS DRG. #691.
		POLE, CITY ALUMINUM, WITH ROUND BAL. HSG. BASE, 25', 28', or 30' ON FND. WITH 14" B.C., ACQUIRED FROM CHICAGO PARK DISTRICT.
		POLE, CITY STEEL, EMBEDDED, 4"x 9"x 35' 7 GA., TAPERED TUBULAR. (DWG. #658)
		POLE, CITY STEEL, EMBEDDED, 4"x 9"x 35' 3 GA., TAPERED TUBULAR. (DWG. #658)
		POLE, CITY STEEL, EMBEDDED. (ACQUIRED FROM CTA)
		COLUMN, ELEVATED STRUCTURE
		POLE, WOOD. (SIZE AS NOTED)
		POLE, FOUNDATION WITH ELBOWS AS INDICATED. (SIZE AS NOTED)
		POLE, ORNAMENTAL OR OTHER, AS INDICATED ON THE PLANS

PROPOSED	PRESENT	
		HANDHOLE, HEAVY DUTY, 36" I.D. (DWG. #866)
		HANDHOLE, CIRCULAR WITH 24" FRAME & COVER, 30" I.D. (#867)
		MANHOLE, CITY 3'X4'X4' DWG. #729 or 730; 4'X6'X6' DWG. #732 or 733.
		FOUNDATION, CONTROLLER OR PEDESTAL. 13" B.C., 20"X5" (DWG. #709)
		FOUNDATION, TRAFFIC CONTROLLER DWG. #854. F.A. TERMINAL FND. DWG. #11972
		FOUNDATION, TRAFFIC TYPE "P", BASE MOUNT. (DWG. #888)
		FOUNDATION, CONTROLLER STREET LIGHT, SPECIAL, 100A & 200A. (DWG. #876 & # 880)
		FOUNDATION, TRANSCLOSURE; TRANSCLOSURE HOUSING. (DWG. # 583 & #891)
		CONTROLLER, UNDERPASS LIGHTING 120V. & 240V. (DWG. #860 & #861)
		MANHOLE, UTILITY, E=COMMONWEALTH EDISON; T=ILL. BELL TEL.; G=PEOPLES GAS; W=CITY WATER; P=CHGO. PARK DISTRICT; CTA=C.T.A.; S=SEWER
		JUNCTION BOX, IN PAVEMENT (DWG. #815)
		DETECTOR LOOP IN PAVEMENT
		CONDUIT or P.V.C., NUMBER, SIZE & TYPE. (AS NOTED)
		CONDUIT or P.V.C. ENCASED IN CONCRETE. (SECTION or NUMBER OF CONDUIT INDICATED)
		LUMINAIRE, H.P.S.V. 400W LAMP, 240V, SEMI-CUTOFF
		LUMINAIRE, H.P.S.V. 400W LAMP, 240V, CUTOFF
		LUMINAIRE, H.P.S.V. 310W LAMP, 240V
		LUMINAIRE, H.P.S.V. 310W LAMP 240V, CUTOFF
		LUMINAIRE, H.P.S.V. 150W LAMP, 240V
		LUMINAIRE, H.P.S.V. 150W LAMP, 120V
		LUMINAIRE, H.P.S.V. 250W LAMP, 120V, (ALLEY LIGHT)
		LUMINAIRE, H.P.S.V. 250W LAMP, 120V
		TERMINAL, CABINET F.A. & P.C.
		FIRE ALARM BOX, MOUNTED
		FIRE ALARM BOX, POLE MOUNTED
		CABLE, TRAFFIC SIGNAL, COMMUNICATION, 1-PAIR #14 SHIELDED, IN CONDUIT
		CABLE, TRAFFIC SIGNAL POWER SUPPLY, 2/C-#4, 600 V. EPR. IN CONDUIT
		CABLE, TRAFFIC SIGNAL POWER SUPPLY, 2 1/C-#2 or #1/0 600V, EPR IN CONDUIT
		CABLE, TRAFFIC SIGNAL POWER SUPPLY, 2/C-#10 or #6, 600V NSRI, IN CONDUIT
		CABLE, TRAFFIC SIGNAL, 7/C-#12 or #14, 600V, EPR IN CONDUIT
		CABLE, TRAFFIC SIGNAL, 10/C-#12 or #14, 600V, EPR IN CONDUIT
		CABLE, TRAFFIC SIGNAL, 14/C-#12, 600V, EPR IN CONDUIT
		CABLE, TRAFFIC SIGNAL, 19/C-#12 or #14, 600V, EPR IN CONDUIT
		CABLE, STREET LIGHT, 2 1/C-#6, 600V, RINS IN PARKWAY
		CABLE, STREET LIGHT, 2 1/C-#6, 600V, RINS IN CONDUIT
		CABLE, STREET LIGHT, 2 1/C-#6 EPRN 600V. & 1 1/C-#8 GREEN, TRIPLEXED, IN CONDUIT
		CABLE, STREET LIGHT, 3 1/C-#1/0, or #2/0, or #4, 600V. EPR IN CONDUIT
		WIRE, STREET LIGHT, 2 1/C-#6, HDNS. AERIAL
		WIRE, STREET LIGHT, 2 1/C-#6 & 1 1/C #8, HDNS. AERIAL
		CABLE, STREET LIGHT AERIAL, 3 1/C-#4 or #2 SELF SUPPORTING, 600V EPR
		WIRE, F.A. & P.C. AERIAL, 1/C-#10, NUMERAL DENOTES QUANTITY AS INDICATED)
		CABLE, F.A. & P.C. AERIAL, W/ MESSENGER #19-(NUMBER OF PAIRS AS INDICATED)
		CABLE, F.A. & P.C. AERIAL, SELF SUPPORTING, #19-(NUMBER OF PAIRS AS INDICATED)
		CABLE, F.A. & P.C., IN CONDUIT, #19-(NUMBER OF PAIRS AS INDICATED)
		DOWNLIGHT ASSEMBLY. (DWG. #850)
		LIGHT, TRAFFIC SAFETY ISLAND
		FLASHING BEACON & DOWNLIGHT

ORNAMENTAL LUMINAIRES		
PROPOSED	EXISTING	
		310W PENDANT (240V)
		400W PENDANT (240V)
		250W PENDANT (240V)
		150W ACORN (120V)
		150W ACORN (240V)
		50W ACORN (240V)
		100W ACORN (240V)
		150W GLOBE (240V)
		100W GLOBE (240V)
		50W GLOBE (240V)

C 04-01-02	REVISED/REDRAW	R. POOL/B. I.
B 12-4-01	ADDED ORNAMENTAL SYMBOLS	
A 8-6-96	REDRAWN	
DATE	REVISION	
<b>STANDARD CODE FOR TRAFFIC SIGNALS/ STREET LIGHTING</b>		
CITY OF CHICAGO DEPT. OF STREET AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING		
DRAFTSMAN: R. IVY	CHIEF DRAFTSMAN: R. CARTER	ENGINEER: R. POOL/R.C.W.T.
SUPERVISING ENGINEER:	ELEC. DESIGN ENGR:	DWG. NO.
ENGINEER OF ELECTRICITY:		826
GEN'L. SUPV. OF CONSTRUCTION:		
DEPUTY SUPERVISING ENGINEER:		
SIZES 22" 1/4" 3/8"	SCALE:	DATE:

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
111TH STREET OVER  
F.A.I. ROUTE 57 (INTERSTATE 57)

ELECTRICAL STANDARD DETAILS

SCALE: NONE DRAWN BY: N/A  
DATE: 01/16/09 CHECKED BY: N/A

**TENG**

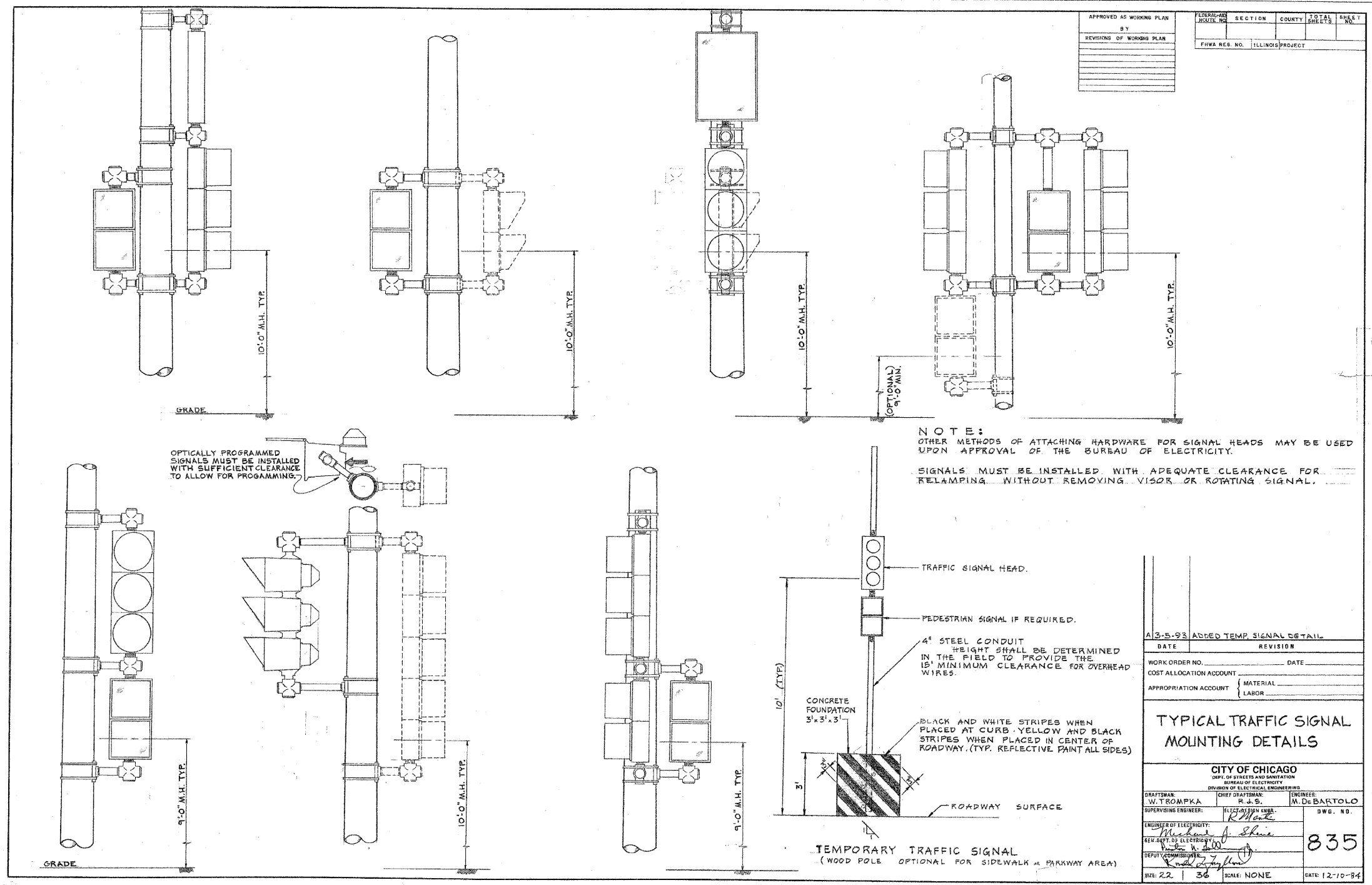
TENG & ASSOCIATES, INC.  
ENGINEERS/ARCHITECTS/PLANNERS  
205 N. MICHIGAN AVE., CHICAGO, IL 60601  
TELEPHONE: 312/616-0000

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.1B-R	COOK	101	045
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62532				



NOTE:  
OTHER METHODS OF ATTACHING HARDWARE FOR SIGNAL HEADS MAY BE USED UPON APPROVAL OF THE BUREAU OF ELECTRICITY.

SIGNALS MUST BE INSTALLED WITH ADEQUATE CLEARANCE FOR RELAMPING WITHOUT REMOVING VISOR OR ROTATING SIGNAL.

A 3-5-93 ADDED TEMP. SIGNAL DETAIL	
DATE	REVISION
WORK ORDER NO.	DATE
COST ALLOCATION ACCOUNT	
APPROPRIATION ACCOUNT	MATERIAL
	LABOR
<b>TYPICAL TRAFFIC SIGNAL MOUNTING DETAILS</b>	
CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING	
DRAFTSMAN W.TROMPKA	ENGINEER M. DeBARTOLO
SUPERVISING ENGINEER R. Shank	DWG. NO. 835
ENGINEER OF ELECTRICITY Michael J. Shive	
GEN. SUPT. OF ELECTRICITY W. J. [Signature]	
DEPUTY COMMISSIONER [Signature]	
SIZE: 22   36	SCALE: NONE
	DATE: 12-10-84

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ES-09

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
111TH STREET OVER  
F.A.I ROUTE 57 (INTERSTATE 57)

ELECTRICAL STANDARD DETAILS

SCALE: NONE  
DATE: 01/16/09

DRAWN BY: N/A  
CHECKED BY: N/A

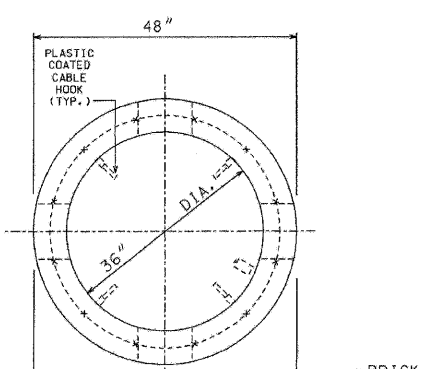
**TENG**  
TENG & ASSOCIATES, INC.  
ENGINEERS/ARCHITECTS/PLANNERS  
205 N. MICHIGAN AVE. CHICAGO, IL 60601  
TELEPHONE: 312/618-0000





F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.IB-R	COOK	101	047
STA.	TO STA.			
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62532				

TOP VIEW  
FRAME, COVER & TOP  
OF HANDHOLE REMOVED



FRAME & COVER  
DRG. #872

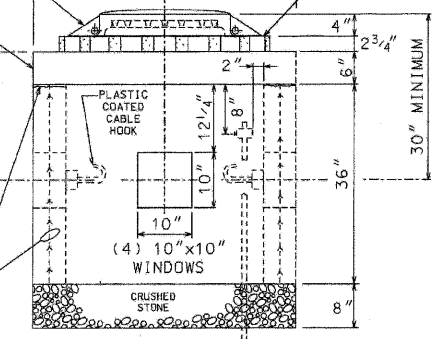
SEE DETAIL  
ROOF OF  
HANDHOLE

BRICK

INSTALL BED OF MORTAR  
BETWEEN ROOF & HANDHOLE

REINF. WIRE  
MESH-6" X 6"

SIDE  
ELEVATION



COMPLETE COMMODITY CODE NO. 05-6610-5310M

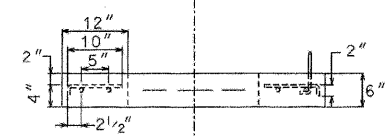
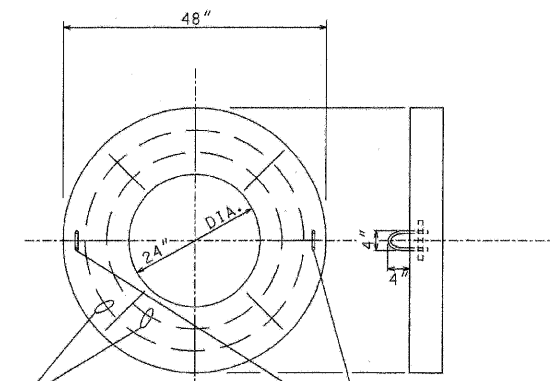
CODE NO.	MATERIALS	SIZE	QUAN.
(1) 05-6610-5312	PRE-CAST HANDHOLE	36" X 36"	
(2) 05-6610-5312	PRE-CAST ROOF	SEE DETAIL	1
05-9075-5470	STONE 3/4" CRUSHED SCREENINGS	BAG	5
05-1452-9720	BRICK		24
02-4299-5524	FRAME, MANHOLE	24"	1
02-4574-5624	COVER, MANHOLE	24"	1
09-7796-9312	GROUND ROD	3/4" X 12'	1
09-2636-3240	GROUND CLAMP		1
(3) 05-5082-5330	SOND TUBE	36"	1
(3) 05-5082-5342	SOND TUBE	48"	1
(3) 05-3267-2940	CONC. REDI-MIX	CU. YD.	3/4
(3) 20-5472-9630	REINFORCING BAR	#3 (3/8")	20'
(3) 20-5472-9630	REINFORCING BAR	#3 (3/8")	8'
(3) 20-5472-9640	REINFORCING BAR	#4 (1/2")	4'
(3) 57-0770-0000	(MESH (6" X 6"))	36" X 11'	1

- (1) PRE-CAST HANDHOLE SHALL INCLUDE CABLE HOOKS AND CONDUIT KNOCK-OUTS.
- (2) PRE-CAST ROOF SHALL INCLUDE LIFTING EYES.
- (3) THESE ITEMS ARE FOR POURED-IN-PLACE HANDHOLES ONLY.

CONSTRUCTION NOTES:

- 1 - 8" BED OF STONE FOR DRAINAGE.
- 2 - ALL METALLIC CONDUIT(S) ENTERING HANDHOLE SHALL EXTEND MIN. 1" & MAX. OF 3" INSIDE INNER WALL & BE EQUIPPED WITH AN APPROVED TYPE THREADED GROUNDING BUSHING.

(2) #3 REINFORCING  
BARS WITH (8) #3  
CROSS TIES



DETAIL-ROOF OF HANDHOLE

DATE	REVISION
01-23-00	ADDED CABLE HOOKS PER COMMISSIONER MURPHY (RC/RD)
	REDRAW (CAD.) (MP)

**36" DIA. HEAVY DUTY  
CONCRETE HANDHOLE  
WITH 24" FRAME &  
COVER**

**CITY OF CHICAGO**  
DEPT. OF STREETS AND SANITATION  
DIVISION OF ELECTRICITY  
DIVISION OF ELECTRICAL ENGINEERING

DRAFTSMAN M. PATTON	CHIEF DRAFTSMAN B. CARTER	ENGINEER W. TROMPKA
SUPERVISING ENGINEER ELEC. DESIGN ENGR.		W. DEBARTOLO
ENGINEER OF ELECTRICITY		
DEPT. SUPV. OF ELECTRICITY		
DEPUTY COMMISSIONER		

SIZE: 17" x 22" SCALE: NONE DATE: 1-12-96

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
111TH STREET OVER  
F.A.I ROUTE 57 (INTERSTATE 57)

ELECTRICAL STANDARD DETAILS

SCALE: NONE DRAWN BY: N/A  
DATE: 01/16/09 CHECKED BY: N/A

**TENG**

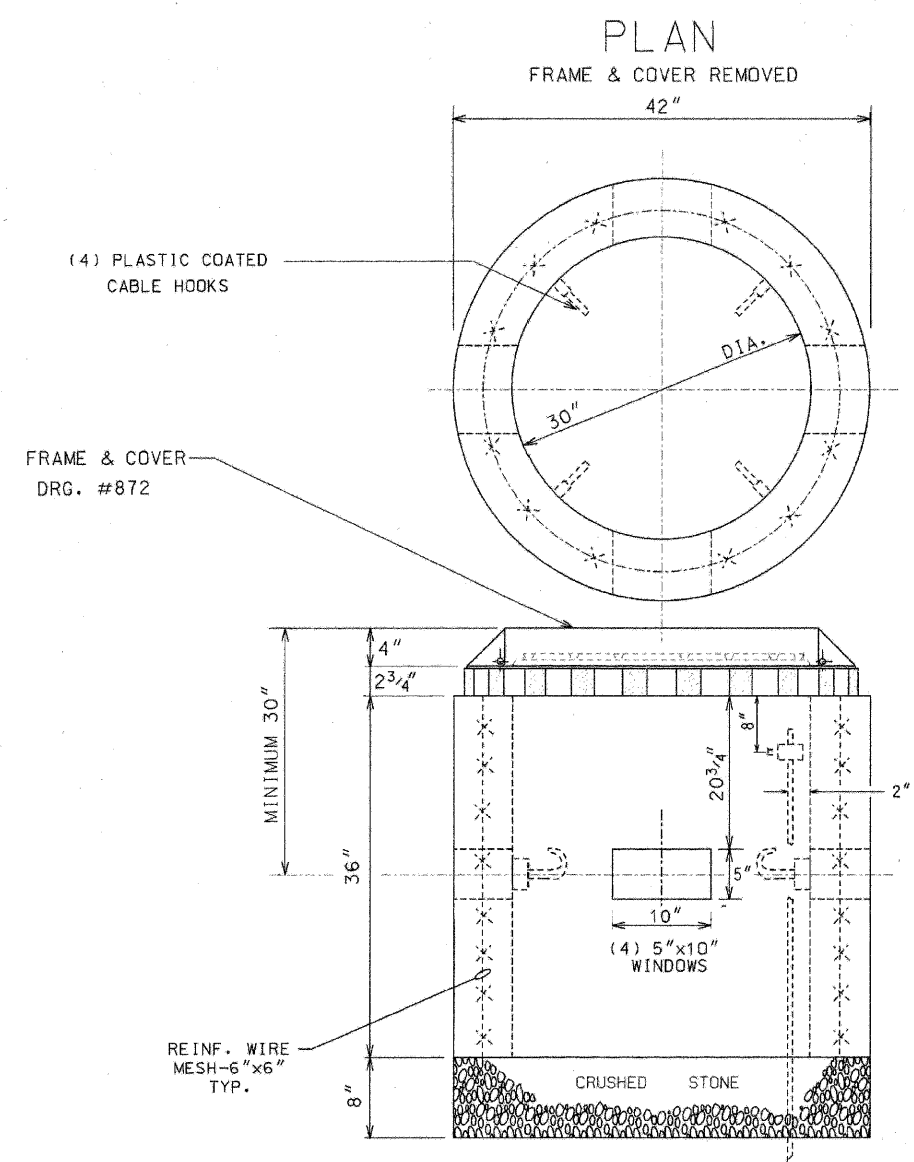
TENG & ASSOCIATES, INC.  
ENGINEERS, ARCHITECTS, PLANNERS  
205 N. MICHIGAN AVE., CHICAGO, IL 60601  
TELEPHONE: 312/616-0000

WITH ST. BORBER.DGN  
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 RECHT BR  
 60 61 62 63

#SICRHSPEC#  
 #SICRHSPEC#  
 #SICRHSPEC#  
 #PENSPEC#

ES-11

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.1B-R	COOK	101	048
STA.	TO STA.			
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62532				



COMPLETE COMMODITY CODE NO. 05-6610-5310M

CODE NO.	MATERIALS	SIZE	QUAN.
(1) 05-6610-5310	PRE-CAST HANDHOLE	30"X36"	1
(2) 05-9075-5470	STONE 3/4" CRUSHED	BAG	5
(2) 05-5082-5330	SOND TUBE	30"	1
(2) 05-5082-5342	SOND TUBE	42"	1
(2) 05-3267-2940	CONC. REDI-MIX	CU. YD.	1/2
(2) 57-0770-0000	6" X 6" MESH	36"X10'	1
05-1452-9720	BRICK		24
02-4299-5524	FRAME MANHOLE	24"	1
02-4574-5040	COVER, MANHOLE	24"	1
09-7796-9312	GROUND ROD	3/4"X12'	1
09-2630-3240	GROUND CLAMP		1

- (1) PRE-CAST HANDHOLE SHALL INCLUDE CABLE HOOKS AND CONDUIT KNOCKOUTS.
- (2) THESE ITEMS ARE FOR POURED-IN-PLACE HANDHOLES ONLY.

CONSTRUCTION NOTES:

- 8" BED OF STONE FOR DRAINAGE.
- ALL METALLIC CONDUITS ENTERING HANDHOLE SHALL EXTEND MINIMUM 1" & MAXIMUM 3" INSIDE INNER WALL AND BE EQUIPPED WITH AN APPROVED TYPE OF THREADED GROUNDING BUSHING.

B	01-23-00	ADDED CABLE HOOKS PER COMMISSIONER MURPHY	(R/C/RD)
A	12-8-95	REDRAW (CAD)	MP
DATE		REVISION	
30" DIA. CONCRETE HANDHOLE			
CITY OF CHICAGO			
DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING			
DRAFTSMAN	CHIEF DRAFTSMAN	ENGINEER	TRUCKER
M. PATTON	B. CARTER	DEBARTOLO	
SUPERVISING ENGINEER	ELEC. DESIGN ENGR.		
ENGINEER OF ELECTRICITY			DWG. NO.
DEPT. Supt. OF ELECTRICITY			867
CITY COMMISSIONER			
SIZES	11"	17"	SCALE: NONE DATE: 12-8-95

\\NTP: ST BORDER.DGN...P\WOOD\G.DGN  
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ES-12

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
111TH STREET OVER  
F.A.I. ROUTE 57 (INTERSTATE 57)

ELECTRICAL STANDARD DETAILS

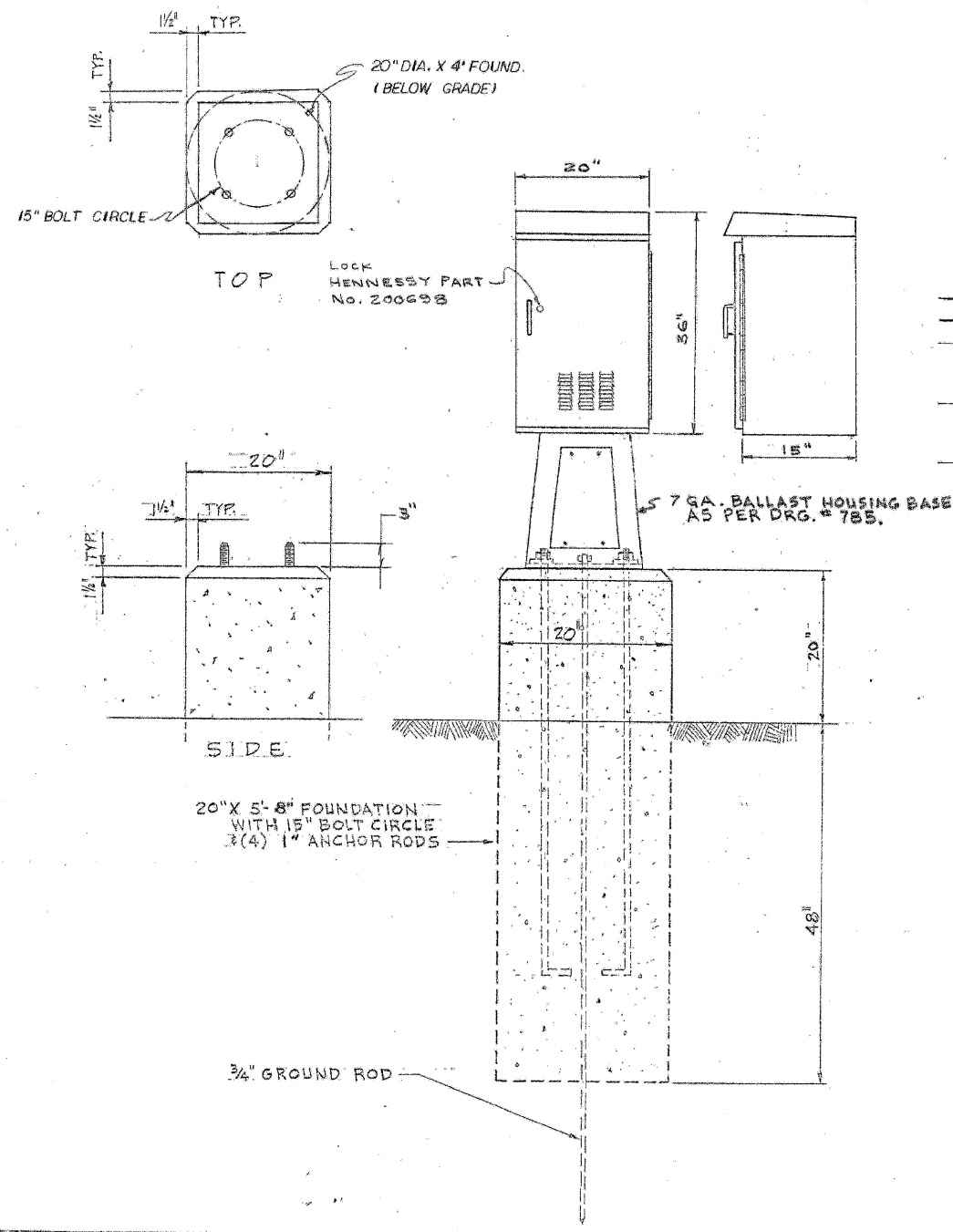
SCALE: \_\_\_\_\_ DRAWN BY: N/A  
 DATE: 01/16/09 CHECKED BY: N/A

**TENG**

TENG & ASSOCIATES, INC.  
 ENGINEERS, ARCHITECTS, PLANNERS  
 205 N. MICHIGAN AVE., CHICAGO, IL 60601  
 TELEPHONE: 312/616-0000



CODE	DRG.	MATERIAL	SIZE	QUANT.
05-5082-8324		FIBER FORM	20" $\phi$	4'
05-5267-2940		CONCRETE	CU. YD.	0.7
37-8180-0236	811	ANCHOR ROD	1" x 60"	4
09-7796-9200		GROUND ROD	3/4" x 10'	1
09-2636-3240		CLAMP, GROUND ROD	3/4"	1
37-2130-4280	785	CABINET ALUMINUM	36" x 20" x 15"	1
		BALLAST HOUSING BS	1'-4" x 1'-8"	1



NOTE:  
**HENNESSY "38" CABINET #212373 OR U.L. APPROVED EQUIVALENT.**

- SEE DRAWING # 883 FOR ELECTRICAL PANEL DETAILS.
- SEE DRAWINGS # 862 & 864 FOR WIRING DIAGRAM.
- DRILL (4) 1/2" DIA. HOLES IN BOTTOM OF CABINET & TOP OF BALLAST HOUSING BASE. BOLT CABINET TO B.H.B USING (4) 3/8" x 2 1/2" BOLTS.
- OPENINGS IN BOTTOM OF CABINET & TOP OF B.H.B. MAY BE ENLARGED TO A MAX. OF 5" x 10" TO FACILITATE ADDITIONAL CABLE.
- NUMBER & SIZE OF CONDUITS TO BE SHOWN ON CONSTRUCTION DRGS.

A 4-26-93		CAB. NO. CHANGED - CITY NAME REMOVED	
DATE	REVISION		
<b>100 AMP. BASE MOUNTED STREET LIGHT CONTROLLER</b>			
CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING			
DRAFTSMAN: W. TROMPKA	CHIEF DRAFTSMAN: C.R.	ENGINEER: M. De Bartolo	
SUPERVISING ENGINEER: D. Carlson	ELEC. DESIGN ENGR.	D.W.G. I.G.	
ENGINEER OF ELECTRICITY: A. DeBaldy		876	
GEN'L. SUPT. OF ELECTRICITY			
DEPUTY COMMISSIONER: Kenneth J. ...			
SIZE: 16   21	SCALE: 1" = 1'-0"	DATE:	

ORIG. X

ES-14

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 111TH STREET OVER  
 F.A.I ROUTE 57 (INTERSTATE 57)

ELECTRICAL STANDARD DETAILS

SCALE: \_\_\_\_\_ DRAWN BY: N/A  
 DATE: 01/16/09 CHECKED BY: N/A

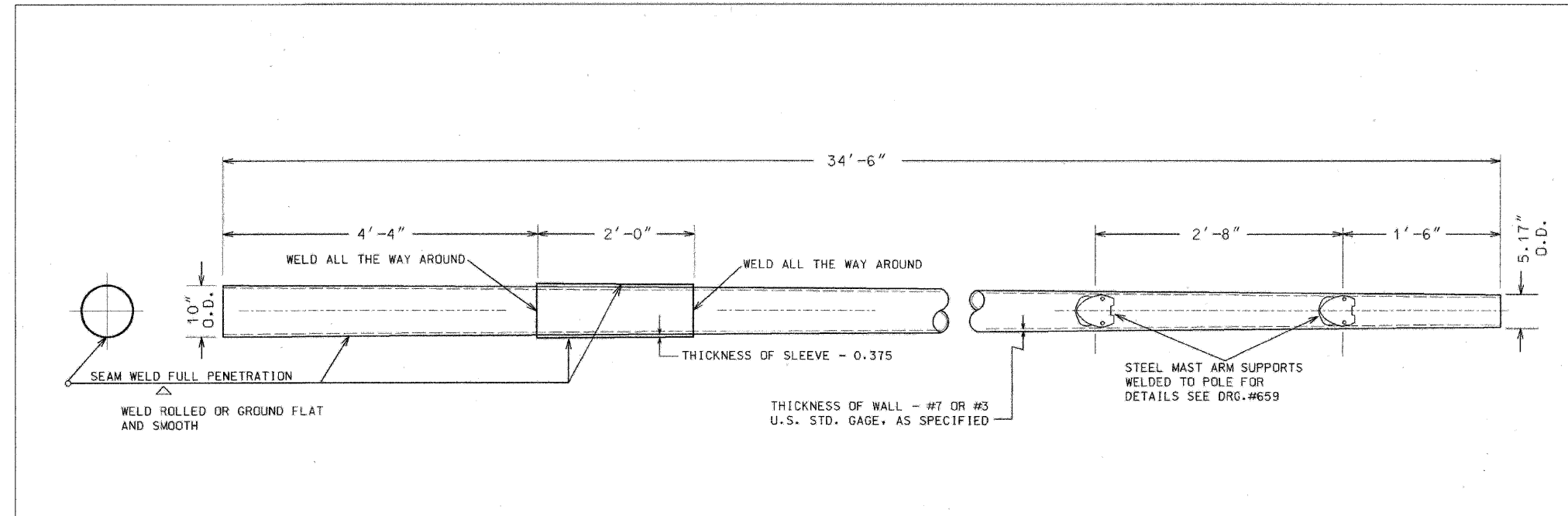
**TENG**

TENG & ASSOCIATES, INC.  
 ENGINEERS, ARCHITECTS, PLANNERS  
 205 N. MICHIGAN AVE., CHICAGO, IL 60601  
 TELEPHONE: 312/645-0000

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 HECHTBR



F.A.I. RT.:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.1B-R	COOK	101	052
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62532				



**MATERIAL**

BOTH THE TUBE AND SLEEVE TO BE STEEL PER SPECIFICATION. TAPER 0.14" PER FOOT  
PAINT INSIDE AND OUTSIDE PER SPECIFICATION

**34'-6" EMBEDDED TAPERED TUBULAR  
#7 OR #3 GAUGE STEEL POLE  
WITH 2 BOLT MAST ARM ATTACHMENTS**

REVISED	CITY OF CHICAGO DEPT. OF STREETS AND SANITATION DIVISION OF ELECTRICAL ENGINEERING		
A	DRAWN	CHECKED	ENGINEER
B	R. IVY	R. CARTER	R. POOL
C			DWG. NO.
D			916
E			
F			
G			
H	SIZE: 16" x 21"	SCALE: 1/8"	DATE: 05-14-98

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
111TH STREET OVER  
F.A.I ROUTE 57 (INTERSTATE 57)

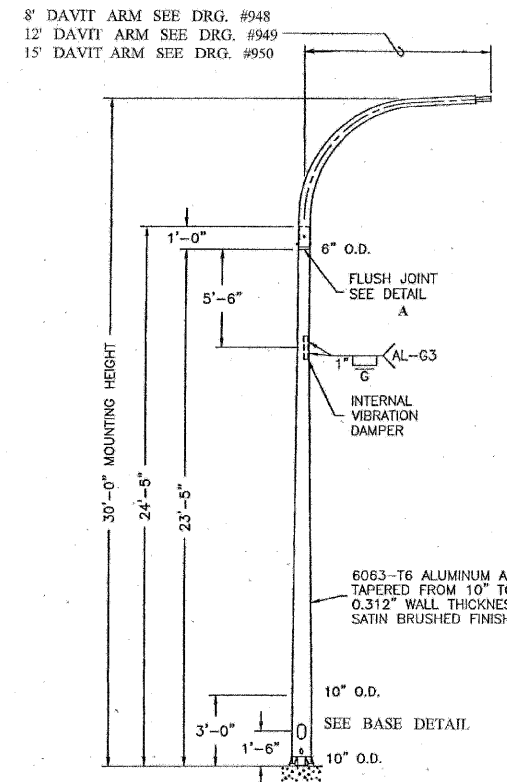
**ELECTRICAL STANDARD DETAILS**

SCALE: \_\_\_\_\_ DRAWN BY: N/A  
DATE: 01/16/09 CHECKED BY: N/A

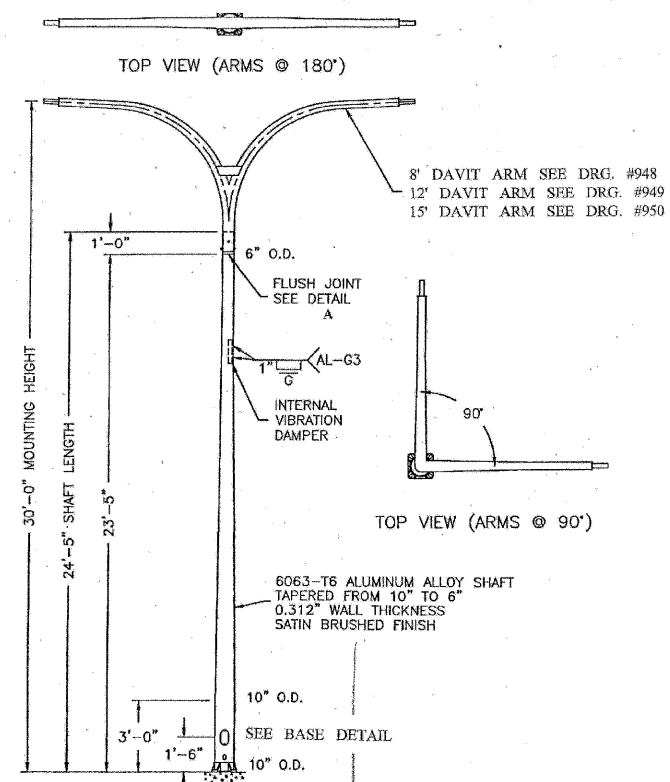
**TENG**  
TENG & ASSOCIATES, INC.  
ENGINEERS/ARCHITECTS/PLANNERS  
205 N. MICHIGAN AVE., CHICAGO, IL 60601  
TELEPHONE: 312/616-6500

\*NORTH ST. BORDER.DWG  
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 HECHTBR

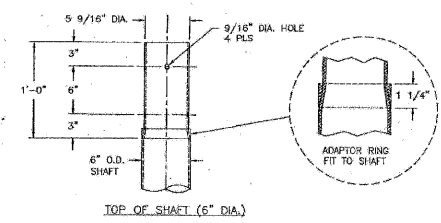
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.1B-R	COOK	101	053
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62532				



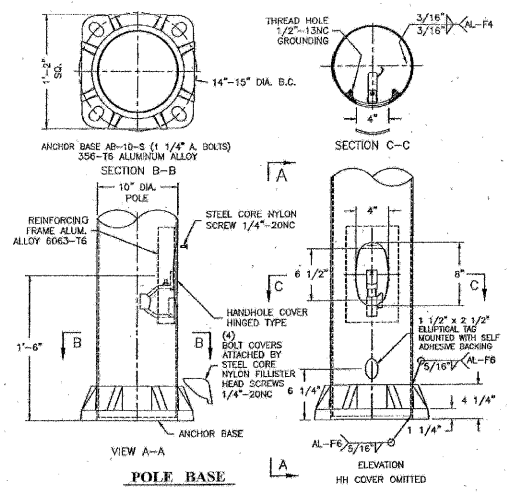
POLE WITH SINGLE DAVIT ARM



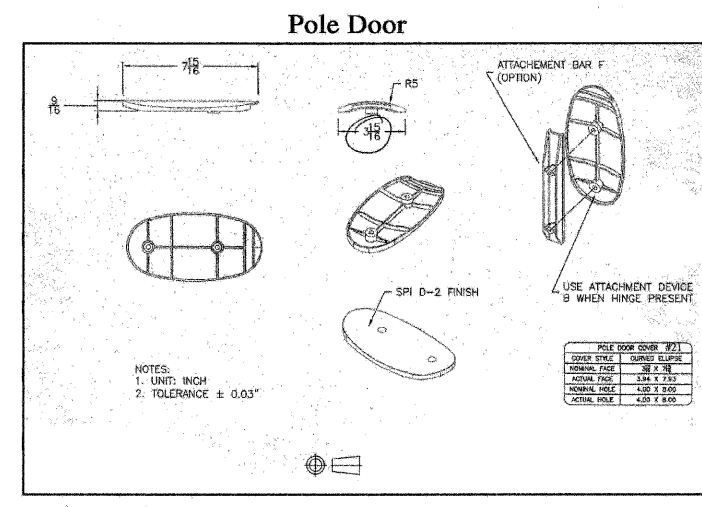
POLE WITH TWIN DAVIT ARMS



DETAIL A



POLE BASE



Pole Door

**ALUMINUM DAVIT POLE**  
10" x 6" x 24'-5"  
FOR ARTERIAL STREETS

**CITY OF CHICAGO**  
DEPT. OF STREETS AND SANITATION  
BUREAU OF ELECTRICITY  
DIVISION OF ELECTRICAL ENGINEERING

DRAFTSMAN: [Signature] CHIEF DRAFTSMAN: [Signature] ENGINEER: [Signature]

SUPERVISING ENGINEER: ELEC. OSBORN, EMMETT DWG. NO. 941

DATE: 1-27-02

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
111TH STREET OVER  
F.A.I ROUTE 57 (INTERSTATE 57)

ELECTRICAL STANDARD DETAILS

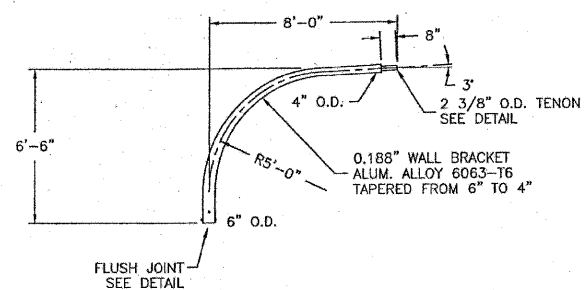
SCALE: DATE: 01/16/09 DRAWN BY: N/A CHECKED BY: N/A

**TENG**  
TENG & ASSOCIATES, INC.  
ENGINEERS/ARCHITECTS/PLANNERS  
205 N. MICHIGAN AVE., CHICAGO, IL 60601  
TELEPHONE: 312/616-0000

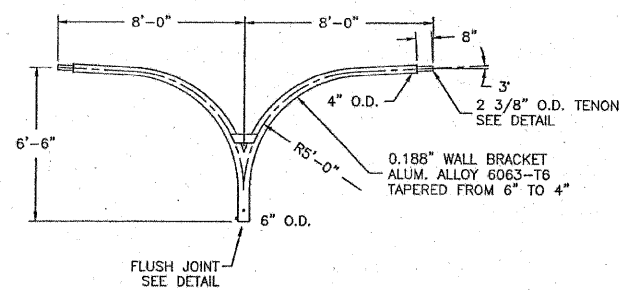
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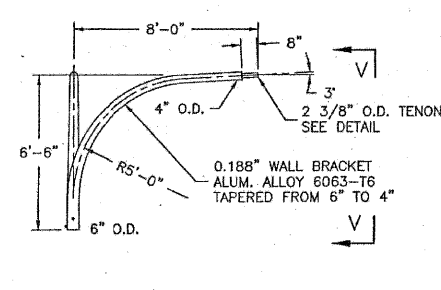
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.3-R	COOK	101	054
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62532				



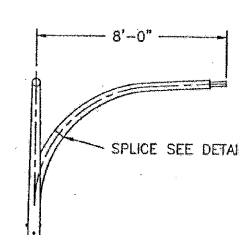
SINGLE DAVIT ARM



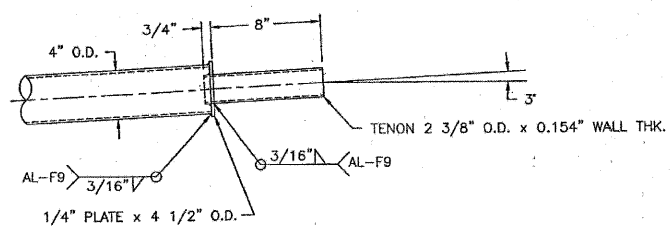
TWIN DAVIT ARM AT 180°



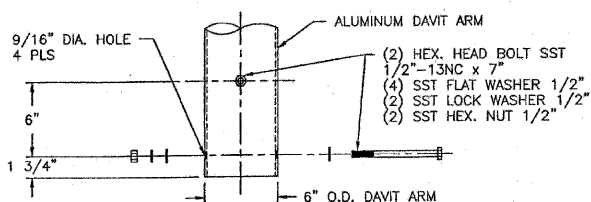
ELEVATION



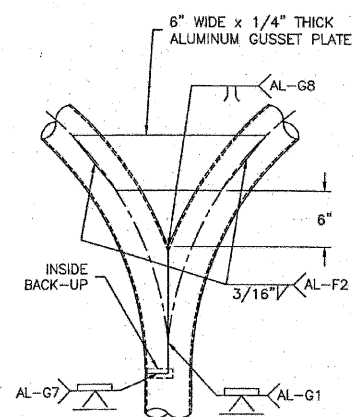
VIEW V-V



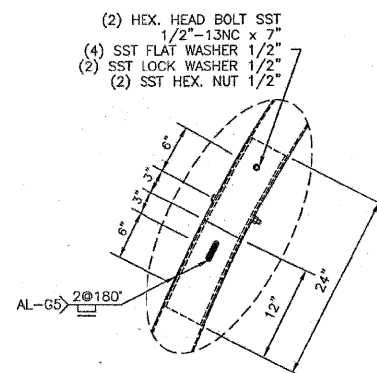
DETAIL OF TENON



DETAIL OF FLUSH JOINT



TWIN ARM (180°) WELD DETAIL



SPLICE DETAIL

<b>ALUMINUM DAVIT ARM</b> 6" x 8'-0"		
CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING		
DESIGNING	CHECKED	ENGINEER
SUPERVISING ENGINEER	ELEC. DESIGN ENGR.	
ENGINEER OF ELECTRICITY		DWG. NO.
CHIEF, SUPT. OF CONSTRUCTION		948
DEPUTY COMMISSIONER		DATE: 1-29-02
SIZE	SCALE	

REVISIONS	
NAME	DATE

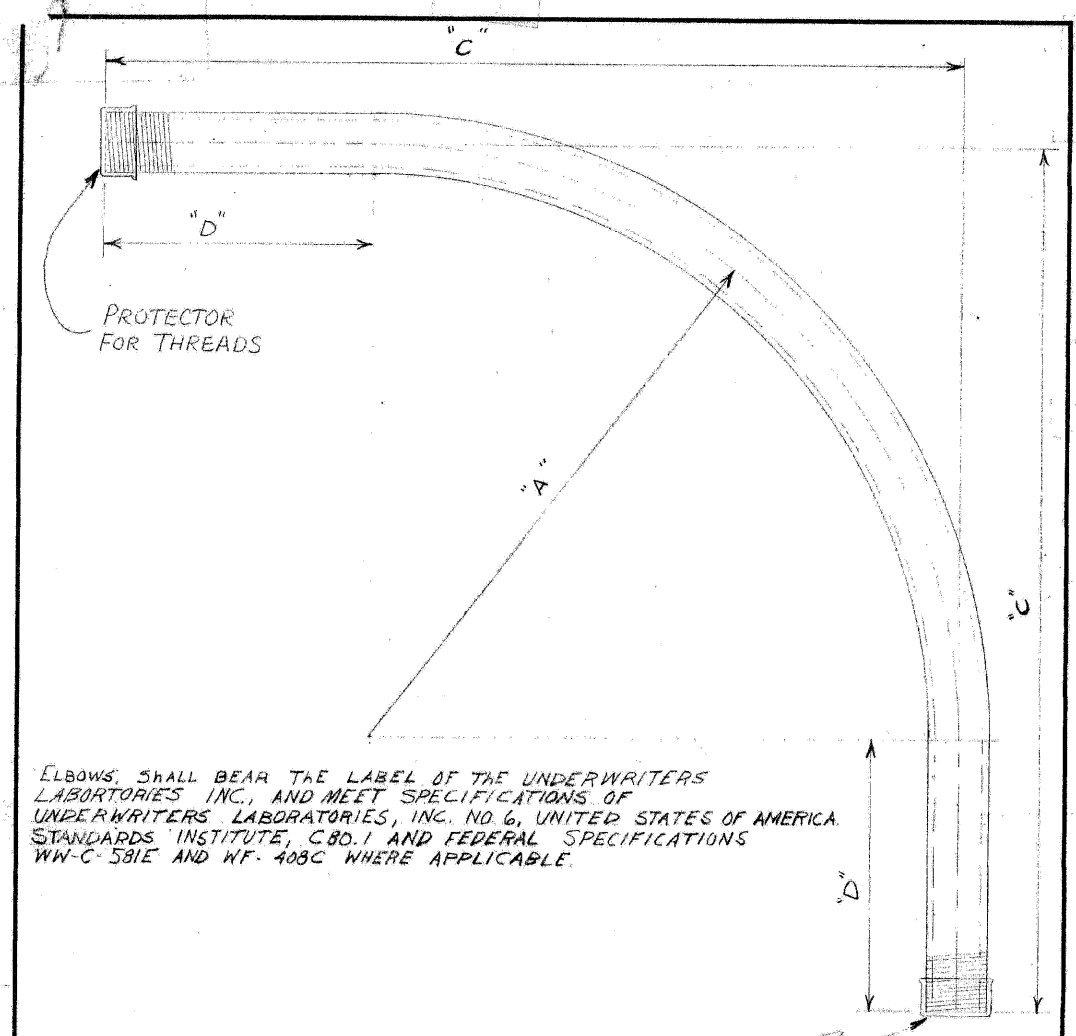
ILLINOIS DEPARTMENT OF TRANSPORTATION  
111TH STREET OVER  
F.A.I. ROUTE 57 (INTERSTATE 57)

ELECTRICAL STANDARD DETAILS

SCALE: NONE  
DATE: 01/16/09  
DRAWN BY: N/A  
CHECKED BY: N/A

**TENG**  
TENG & ASSOCIATES, INC.  
ENGINEERS/ARCHITECTS/PLANNERS  
205 N. MICHIGAN AVE., CHICAGO, IL 60601  
TELEPHONE: 312/616-0000

WITH ST. SUPERBLOON  
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 HECHTBR



ELBOWS SHALL BEAR THE LABEL OF THE UNDERWRITERS LABORATORIES INC., AND MEET SPECIFICATIONS OF UNDERWRITERS LABORATORIES, INC. NO. 6, UNITED STATES OF AMERICA. STANDARDS INSTITUTE, C.B.O. 1 AND FEDERAL SPECIFICATIONS WW-C-581E AND WF-408C WHERE APPLICABLE.

NOTE: TWO THREAD PROTECTORS TO BE FURNISHED ON EACH ELBOW, PROTECTOR TO COVER A MINIMUM OF TEN THREADS.

REAM BOTH ENDS TO REMOVE BURRS

CONDUIT SIZE	DIMENSIONS			COMMODITY CODE
	"A"	"C"	"D"	
1 1/4"	24"	35"	11"	09-4001-0510
1 1/2"	24"	35"	11"	09-4001-0520
2"	24"	35"	11"	09-4001-4126
2 1/2"	24"	35"	11"	09-4001-4128
3"	24"	35"	11"	09-4001-4230
4"	24"	35"	11"	09-4001-0000

**B SPECIFICATIONS REVISED**  
**A REVISED DIMENSIONS ON 3" x 4" CONDUIT L.R.**

**ELBOW, CONDUIT, RIGID GALVANIZED STEEL, LARGE RADIUS**

**CITY OF CHICAGO**  
 DEPT. OF STREETS AND SANITATION  
 BUREAU OF ELECTRICITY  
 DIVISION OF ELECTRICAL ENGINEERING

REVISIONS:  
 A 7-22-71  
 B 4-3-79  
 C  
 D  
 E  
 F  
 G

DRAWN: LON BURDY  
 CHECKED: M.S.  
 ENGINEER: M. SHINE  
 DRG. NO. 11825  
 DEPUTY COMM. DATE: 6-2-71  
 SIZE: 8 1/2" x 14" SCALE: 3/16"

<p><b>• 7 CONDUCTOR - T POINT STRIP •</b></p> <ul style="list-style-type: none"> <li>7 - COMMON WHITE</li> <li>6 - WHITE BLK. TR. E &amp; W RED</li> <li>5 - BLACK - SOLID " AMBER</li> <li>4 - BLUE - " " GREEN</li> <li>3 - RED - " N &amp; S RED</li> <li>2 - ORANGE - " " AMBER</li> <li>1 - GREEN - " " GREEN</li> </ul>	<p><b>• 14 CONDUCTOR - 10 POINT STRIP •</b></p> <ul style="list-style-type: none"> <li>10 - COMMON WHITE</li> <li>9 - RED WHITE TRACER</li> <li>8 - ORANGE " "</li> <li>7 - GREEN " "</li> <li>6 - RED BLACK TRACER</li> <li>5 - ORANGE " "</li> <li>4 - GREEN " "</li> <li>3 - RED - SOLID</li> <li>2 - ORANGE - SOLID</li> <li>1 - GREEN - SOLID</li> </ul> <p>GREEN BLUE TRACER          ORANGE " " } SPliced &amp; TAPed          RED " " }          BLACK - SOLID</p>	<p><b>• 22 CONDUCTOR - CODE •</b>          • 19 CODE - OMIT • 19 • 21 • 22 •</p> <ul style="list-style-type: none"> <li>1 - WH RED/BLACK TR. COMMON</li> <li>2 - WH RED/GREEN TR. COMMON (SPARE)</li> <li>3 - R BLACK TR. NO. BOUND</li> <li>4 - A " " " "</li> <li>5 - G " " " "</li> <li>6 - R SOLIDS 30. BOUND</li> <li>7 - A " " " "</li> <li>8 - G " " " "</li> <li>9 - BK " NEON OR ARROW</li> <li>10 - R BLUE TR. EAST BOUND</li> <li>11 - A " " " "</li> <li>12 - G " " " "</li> <li>13 - R WHITE TR. WEST BOUND</li> <li>14 - A " " " "</li> <li>15 - O " " " "</li> <li>16 - BL SOLID - SPECIAL</li> <li>17 - BL AMBER TR - "</li> <li>18 - BL WHITE TR - "</li> <li>19 - WH RED TR - "</li> <li>20 - WH SOLID - "</li> <li>21 - WH BLACK TR - "</li> <li>22 - BK WHITE TR - "</li> </ul>																																																								
<p><b>• 10 CONDUCTOR - 7 POINT STRIP •</b></p> <ul style="list-style-type: none"> <li>7 - COMMON - WHITE</li> <li>6 - RED BLK. TR. E &amp; W RED</li> <li>5 - ORANGE BLK. TR. " AMBER</li> <li>4 - GREEN BLK. TR. " GREEN</li> <li>3 - RED - SOLID N &amp; S RED</li> <li>2 - ORANGE - " " AMBER</li> <li>1 - GREEN - " " GREEN</li> </ul> <p>SOLID BLUE          SOLID BLACK } SPliced &amp; TAPed          BLUE BLK. TR.</p>	<p><b>• 14 CONDUCTOR - 14 POINT STRIP •</b></p> <ul style="list-style-type: none"> <li>14 - COMMON WHITE</li> <li>13 - BLACK</li> <li>12 - RED - BLUE TRACER</li> <li>11 - ORANGE - " "</li> <li>10 - GREEN - " "</li> <li>9 - RED - WHITE TRACER</li> <li>8 - ORANGE - " "</li> <li>7 - GREEN - " "</li> <li>6 - RED - BLACK TRACER</li> <li>5 - ORANGE - " "</li> <li>4 - GREEN - " "</li> <li>3 - SOLID RED</li> <li>2 - SOLID ORANGE</li> <li>1 - SOLID GREEN</li> </ul>	<p><b>• SPLIT CORNER •</b></p>																																																								
<p><b>• 10 CONDUCTOR - 10 POINT STRIP •</b></p> <ul style="list-style-type: none"> <li>10 - COMMON - WHITE</li> <li>9 - BLUE BLK. TRACER *</li> <li>8 - BLACK - SOLID *</li> <li>7 - BLUE - SOLID *</li> <li>6 - RED BLK. TRACER E &amp; W RED</li> <li>5 - ORANGE BLK. " " AMBER</li> <li>4 - GREEN BLK. " " GREEN</li> <li>3 - RED - SOLID N &amp; S RED</li> <li>2 - ORANGE - SOLID " AMBER</li> <li>1 - GREEN - SOLID " GREEN</li> </ul> <p>* - SOLID BLUE - GREEN LIGHT } IF USED          * - SOLID BLACK - AMBER " }          * - BLUE BLACK TR. RED " }</p>	<p><b>• STRAIGHT CORNER •</b></p>	<p><b>TRAFFIC CONTROL SIGNALS STRIP WIRING LAYOUT</b></p> <p>REVISIONS:</p> <table border="1"> <tr> <td>A</td> <td>5-4-61</td> <td>DRAWN</td> <td>REB</td> <td>CHECKED</td> <td>W.A. JAMES</td> <td>ENGINEER</td> <td>C.C. BUCKLEY</td> </tr> <tr> <td>B</td> <td>11-10-64</td> <td>DRAWN</td> <td>REB</td> <td>CHECKED</td> <td>W.A. JAMES</td> <td>ENGINEER</td> <td>C.C. BUCKLEY</td> </tr> <tr> <td>C</td> <td></td> <td>DRAWN</td> <td>REB</td> <td>CHECKED</td> <td>W.A. JAMES</td> <td>ENGINEER</td> <td>C.C. BUCKLEY</td> </tr> <tr> <td>D</td> <td></td> <td>DRAWN</td> <td>REB</td> <td>CHECKED</td> <td>W.A. JAMES</td> <td>ENGINEER</td> <td>C.C. BUCKLEY</td> </tr> <tr> <td>E</td> <td></td> <td>DRAWN</td> <td>REB</td> <td>CHECKED</td> <td>W.A. JAMES</td> <td>ENGINEER</td> <td>C.C. BUCKLEY</td> </tr> <tr> <td>F</td> <td></td> <td>DRAWN</td> <td>REB</td> <td>CHECKED</td> <td>W.A. JAMES</td> <td>ENGINEER</td> <td>C.C. BUCKLEY</td> </tr> <tr> <td>G</td> <td></td> <td>DRAWN</td> <td>REB</td> <td>CHECKED</td> <td>W.A. JAMES</td> <td>ENGINEER</td> <td>C.C. BUCKLEY</td> </tr> </table> <p>FILE 16"x21" COMMITTEE DATE 11-8-56</p>	A	5-4-61	DRAWN	REB	CHECKED	W.A. JAMES	ENGINEER	C.C. BUCKLEY	B	11-10-64	DRAWN	REB	CHECKED	W.A. JAMES	ENGINEER	C.C. BUCKLEY	C		DRAWN	REB	CHECKED	W.A. JAMES	ENGINEER	C.C. BUCKLEY	D		DRAWN	REB	CHECKED	W.A. JAMES	ENGINEER	C.C. BUCKLEY	E		DRAWN	REB	CHECKED	W.A. JAMES	ENGINEER	C.C. BUCKLEY	F		DRAWN	REB	CHECKED	W.A. JAMES	ENGINEER	C.C. BUCKLEY	G		DRAWN	REB	CHECKED	W.A. JAMES	ENGINEER	C.C. BUCKLEY
A	5-4-61	DRAWN	REB	CHECKED	W.A. JAMES	ENGINEER	C.C. BUCKLEY																																																			
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G		DRAWN	REB	CHECKED	W.A. JAMES	ENGINEER	C.C. BUCKLEY																																																			

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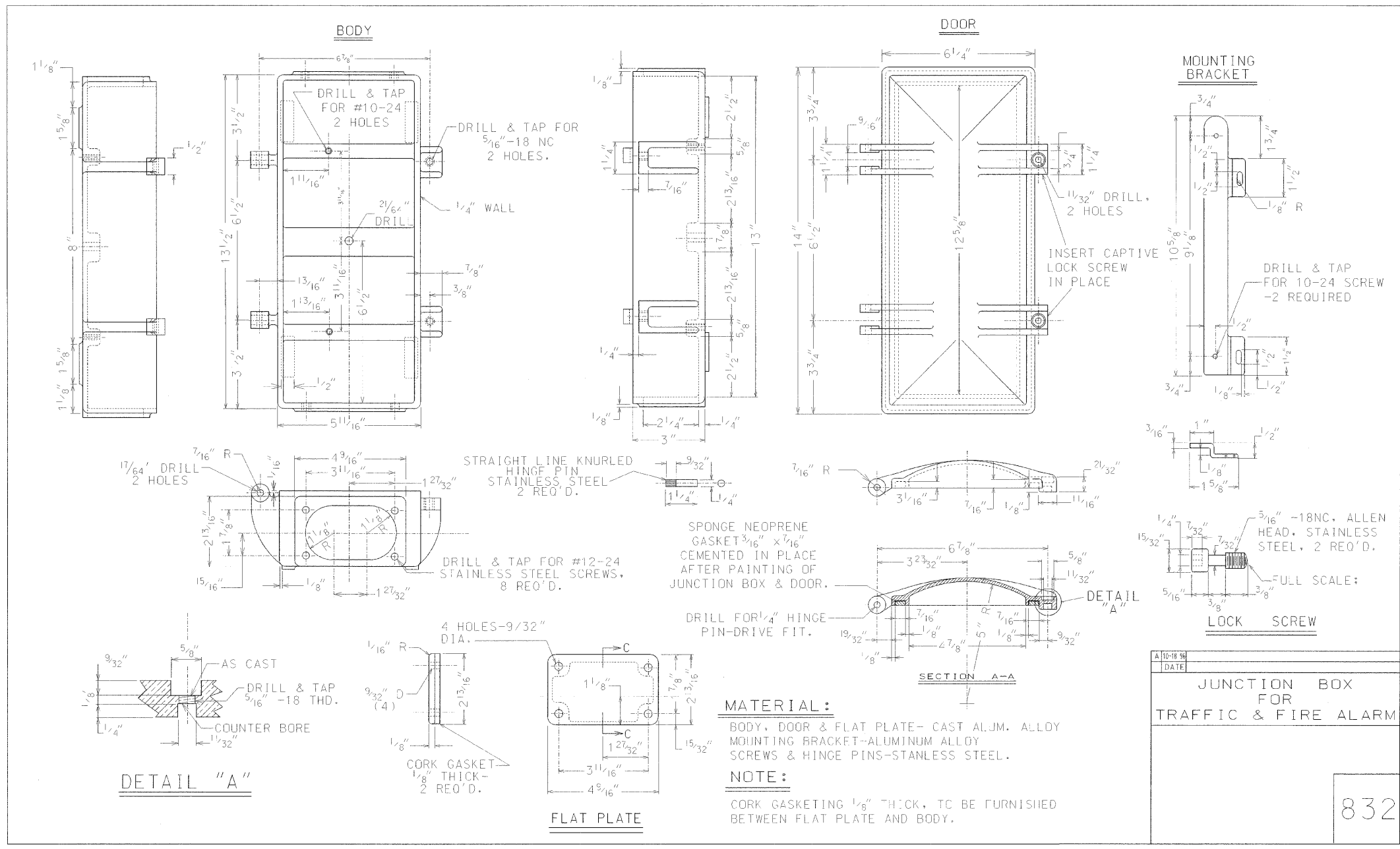
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 111TH STREET OVER  
 F.A.I. ROUTE 57 (INTERSTATE 57)

ELECTRICAL STANDARD DETAILS

SCALE: NONE  
 DATE: 01/16/09  
 DRAWN BY: N/A  
 CHECKED BY: N/A

**TENG**  
 TENG & ASSOCIATES, INC.  
 ENGINEERS/ARCHITECTS/PLANNERS  
 205 N. MICHIGAN AVE., CHICAGO, IL 60601  
 TELEPHONE: 312/616-0000



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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 111TH STREET OVER  
 F.A.I. ROUTE 57 (INTERSTATE 57)

ELECTRICAL STANDARD DETAILS

SCALE: NONE  
 DATE: 01/16/99  
 DRAWN BY: N/A  
 CHECKED BY: N/A

**TENG**

TENG & ASSOCIATES, INC.  
 ENGINEERS/ARCHITECTS/PLANNERS  
 205 N. MICHIGAN AVE., CHICAGO, IL 60601  
 TELEPHONE: 312/415-0000

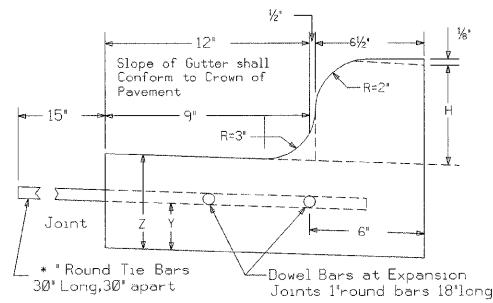


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.1B-R	COOK	101	058
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62532				

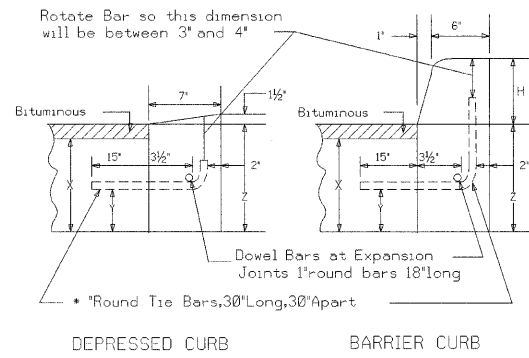
## DETAILS OF P.C.C. CURB, GUTTER, COMBINED CURB & GUTTER, MODIFIED CURB & GUTTER

NOTE: H = Variable (See Plan) where H exceeds 12', use Special Type of C.C.&G  
See Construction Details (for Miscellaneous Structures)  
X = Thickness of Pavement  
Y = One half the thickness of concrete pavement or concrete base.  
Z = 10" or thickness of Pavement - Whichever is GREATER

### TYPE BV.12 OR TYPE 3 CURB & GUTTER



### TYPE B OR TYPE 4 CURB



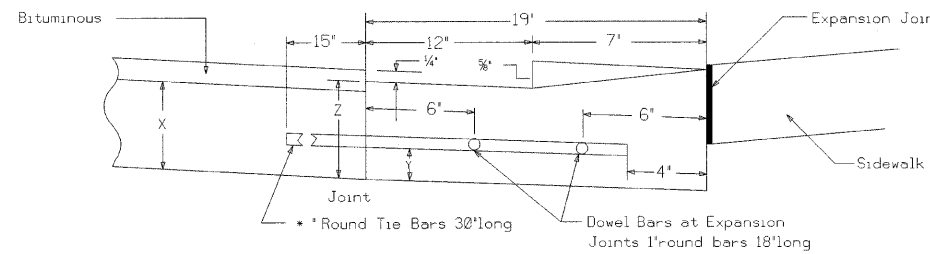
### JOINTS IN CURB, GUTTER, COMBINED CURB & GUTTER

Transverse Joints of a type similar to that used in the adjacent pavement shall be installed in the curb, gutter and Combined Curb & Gutter in prolongation with the joints in the pavement. The details of the Transverse Joints in the Curb, Gutter and Combined Curb & Gutter shall be Approved by the COMMISSIONER, Curb, Gutter or Combined Curb & Gutter is constructed adjacent to a flexible base pavement, 1" thick expansion Joints composed of Bituminous Preformed Joint Filler shall be installed in the Curb and/or Gutter at points of curvature and at construction Joints. Contraction Joints shall also be placed between these expansion joints at distances not exceeding 20 feet. All Tie Bars shall be corrugated - all Dowel Bars shall be smooth.

### BASIS OF PAYMENT

The cost of all joints, including labor, furnishing and placing of steel, filler and all other incidentals shall be included in the unit Prices Bid for Type BV.12 or Type 3 Combined Concrete Curb and Gutter, Type 4 or Type B Concrete Curb or any specified special type of curb, gutter or curb and gutter. Unless otherwise specified, the placement of tie bars shall be bid separately.

### DEPRESSED CURB & GUTTER



If no item is provided for Depressed Curb and Gutter, it will be paid for as Type BV.12 or Type 3 Combination Concrete Curb and Gutter.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
111TH STREET OVER  
F.A.I ROUTE 57 (INTERSTATE 57)

**CITY OF CHICAGO DETAIL  
COMB CURB & GUTTER BV.12**

SCALE: N.T.S. DRAWN BY: N/A  
DATE: 01/16/09 CHECKED BY: N/A

**TENG**

TENG & ASSOCIATES, INC.  
ENGINEERS/ARCHITECTS/PLANNERS  
225 N. MICHIGAN AVE., CHICAGO, IL 60601  
TELEPHONE: 312/616-0000

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**NOTES:**

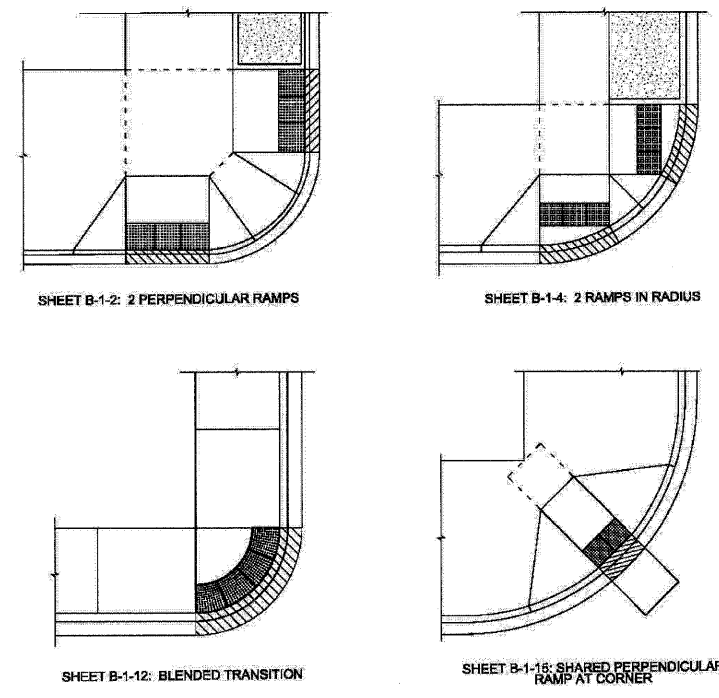
CURB RAMP LAYOUT B-1-2 IS PREFERRED WHEREVER POSSIBLE, WHERE RAMPS ARE LOCATED IN THE CORNER RADIUS, LAYOUT B-1-4 SHALL BE USED.

CURB RAMP PLACEMENT SHALL BE COORDINATED AS REQUIRED TO ALLOW FOR A 4' MINIMUM WIDTH SIDEWALK AROUND EACH CORNER OF INTERSECTION. SIDEWALK NOT TO BE OBSTRUCTED BY CURB RAMPS OR OTHER BARRIERS AND SHALL HAVE A CROSS SLOPE OF 1:84 MAXIMUM.

THE BLENDED TRANSITION LAYOUT B-1-12 MAY BE USED WHERE TWO RAMPS ARE NOT POSSIBLE DUE TO GEOMETRIC CONSTRAINTS, SUCH AS LIMITED SIDEWALK WIDTH OR GRADE ELEVATIONS. THE BLENDED TRANSITION SHALL NOT BE USED IF ACCESS TO AN EXISTING FACILITY WOULD BE REDUCED.

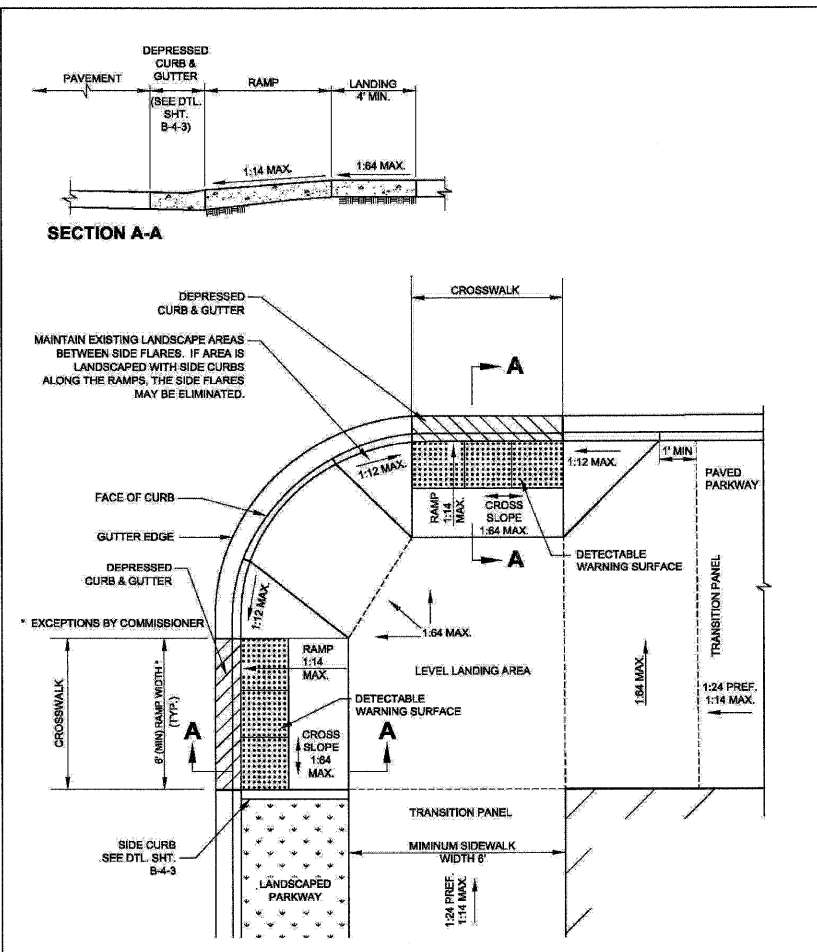
THE SHARED PERPENDICULAR RAMP AT CORNER LAYOUT B-1-15 IS NOT PREFERRED AND MAY ONLY BE USED WITH PERMISSION FROM THE COMMISSIONER.

SEE SHEET B-3-3 FOR TRANSITION PANEL GUIDELINES



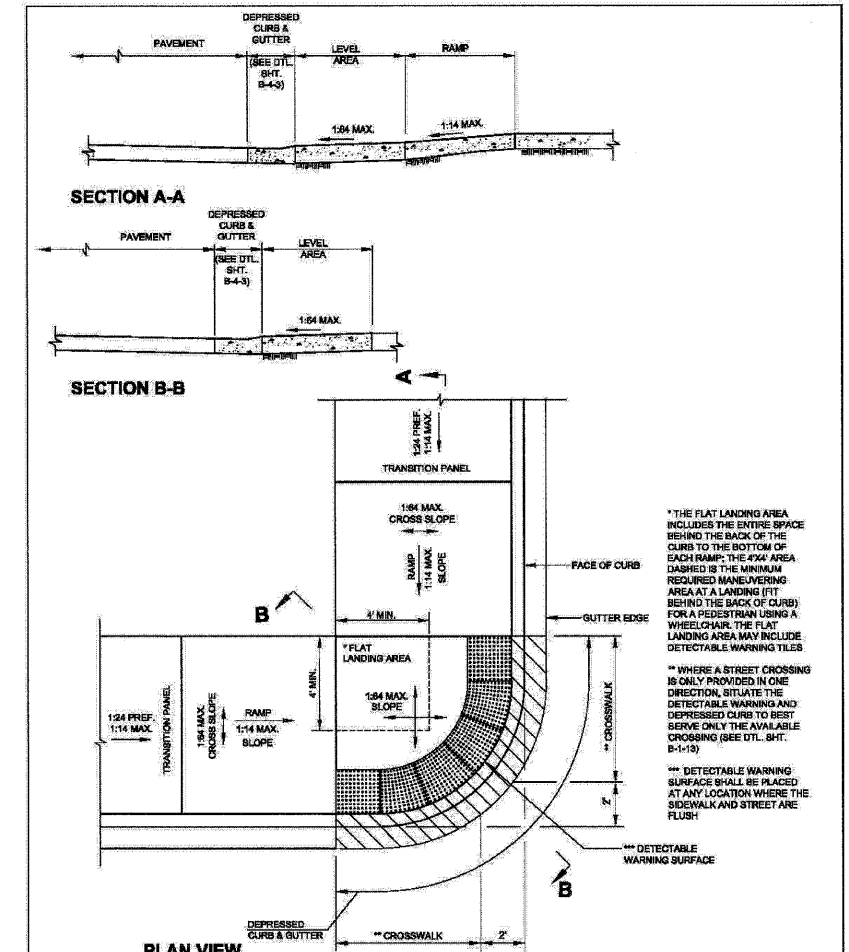
	DATE	REVISION	<b>CITY OF CHICAGO</b> <b>TYPICAL CORNER RAMP LAYOUTS</b> <b>SHEET B-1-1</b>
	02/20/07	REVISION 1	
	11/15/07	REVISION 2	
	11/14/08	REVISION 3	

SCALE: NOT TO SCALE  
DATE: 10/25/2008  
DRAWN BY: CDOT  
CHECKED BY: LCM



	DATE	REVISION	<b>CITY OF CHICAGO</b> <b>2 PERPENDICULAR RAMPS FOR CORNER WHERE</b> <b>CROSSWALKS DO NOT INTERSECT</b>
	02/20/07	REVISION 1	
	11/15/07	REVISION 2	
	11/14/08	REVISION 3	

SCALE: NOT TO SCALE  
DATE: 10/25/2008  
DRAWN BY: CDOT  
CHECKED BY: LCM



	DATE	REVISION	<b>CITY OF CHICAGO</b> <b>BLENDED TRANSITION</b>
	02/20/07	REVISION 1	
	11/15/07	REVISION 2	
	11/14/08	REVISION 3	

SCALE: NOT TO SCALE  
DATE: 10/25/2008  
DRAWN BY: CDOT  
CHECKED BY: LCM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
111TH STREET OVER  
F.A.I ROUTE 57 (INTERSTATE 57)

**CITY OF CHICAGO DETAIL**  
**ADA STANDARDS - I**

SCALE: N.T.S.  
DATE: 01/16/09

DRAWN BY: N/A  
CHECKED BY: N/A

**TENG**

TENG & ASSOCIATES, INC.  
ENGINEERS/ARCHITECTS/PLANNERS  
205 N. MICHIGAN AVE., CHICAGO, IL 60601  
TELEPHONE: 312/615-0200

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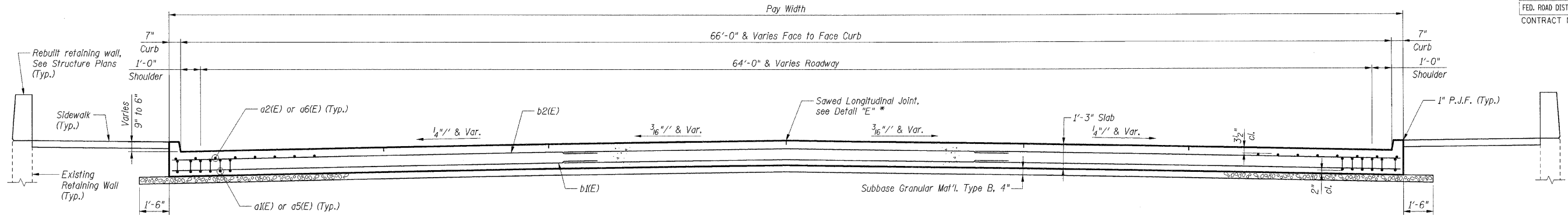




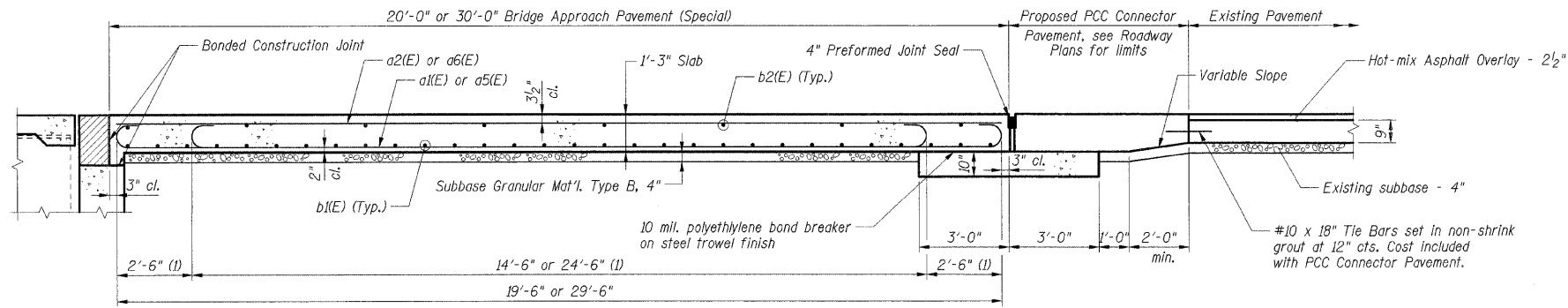








**SECTION B-B**  
(See Plans for Dimensions not shown)  
\* Saw PGL or lane edge.

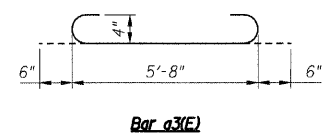


**SECTION A-A**  
(1) Stagger a1(E) and a5(E) bars as shown on plan - full width.

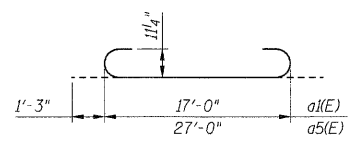
**MATERIAL REQUIRED FOR BRIDGE APPROACH PAVEMENT (SPECIAL)**

Bar	No.	Size	Length	Shape	
a1(E)	134	#9	19'-6"	U	
a2(E)	67	#5	19'-6"	—	
a3(E)	151	#4	6'-8"	U	
a4(E)	151	#4	5'-8"	—	
a5(E)	134	#9	29'-6"	U	
a6(E)	67	#5	29'-6"	—	
b1(E)	150	#5	25'-0"	—	
b2(E)	42	#4	24'-6"	—	
h1(E)	72	#5	26'-6"	—	
h2(E)	72	#5	25'-0"	—	
<b>Item</b>				<b>Unit</b>	<b>Total</b>
Concrete Structures			Cu Yd	159.8	**
Reinforcement Bars, Epoxy Coated			Lbs	35,460	**
Polyethylene Bond Breaker			Sq Yd	98	**
Concrete Pad			Sq Yd	98	**

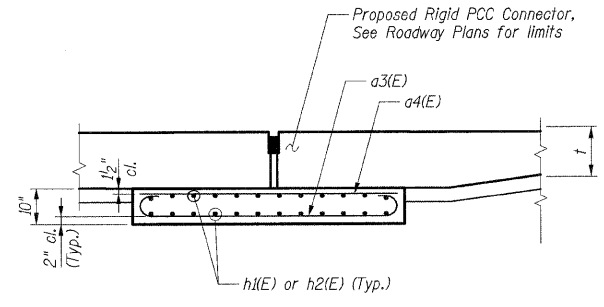
\*\* Item included in the cost for Bridge Approach Pavement (Special).



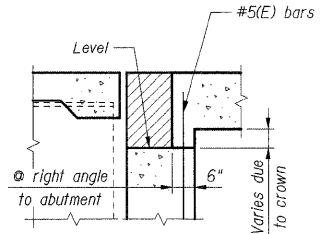
Bar a3(E)



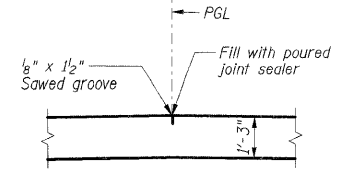
Bars a1(E) & a5(E)



**SECTION C-C**  
(Showing reinforcement)



**SECTION D-D**



**DETAIL "E" \***  
\* Saw PGL or lane edge.

- Notes:**
1. Reinforcement bars designated (E) shall be epoxy coated.
  2. Work this sheet with Sht. 063.
  3. See Standard 420001 for details of joints not shown.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
112TH PLACE OVER  
F.A.I. ROUTE 57 (INTERSTATE 57)  
**BRIDGE APPROACH PAVEMENT,  
SPECIAL AT SN 016-0989  
DETAILS**

SCALE: N.T.S.      DRAWN BY: RDS  
DATE: 01/16/09      CHECKED BY: ACL

**TENG**  
TENG & ASSOCIATES, INC.  
ENGINEERS/ARCHITECTS/PLANNERS  
205 N. MICHIGAN AVE., CHICAGO, IL 60601  
TELEPHONE: 312/616-0000

ATT:BOB.WADON...AF500TJ3.DGN  
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 HECHTER



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.1B-R	COOK	101	066
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62532				

**GENERAL NOTES**

- Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts 7/8 in.  $\phi$ , holes 15/16 in.  $\phi$ , unless otherwise noted.
- No field welding is permitted except as specified in the contract documents.
- The Contractor shall test the existing welds by non-destructive methods within 2 ft. of the end of the existing cover plates for cracks after removal of the existing concrete deck. Dye penetrant (PT), magnetic particle (MT), or other approved testing method shall be performed by qualified personnel approved by the Engineer. If cracks are found, report them to the Bureau of Bridges and Structures for disposition. The cost of testing is included in Removal of Existing Concrete Deck. The cost of crack repair, if necessary, will be paid for according to Article 109.04 of the Standard Specifications.
- Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
- Reinforcement bars designated (E) shall be epoxy coated.
- Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer.

Any cracks that cannot be removed by grinding 1/4 inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

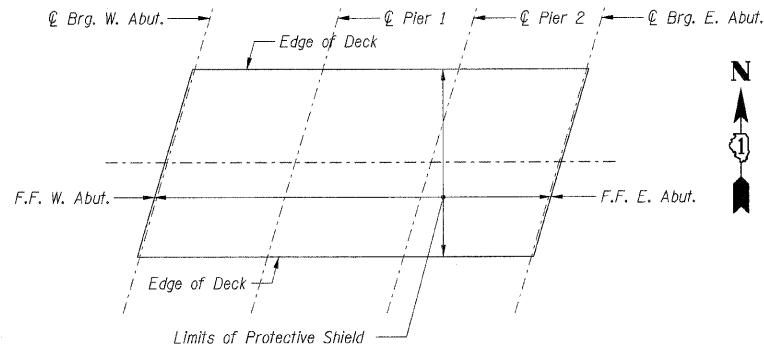
- Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- Concrete Sealer shall be applied to the designated areas of the abutments and piers.
- The Organic Zinc Rich Primer/ Epoxy/ Urethane Paint System shall be used for painting of new structural steel except where otherwise noted. The entire system shall be shop applied, with the exception that masked off connection surfaces, field installed fasteners and damaged areas shall be touched up in the field. The color of the final finish coat for all steel surfaces shall be Gray, Munsell No. 5B 7/1. See Special Provision for "Cleaning and Painting New Metal Structures".
- The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50.
- Existing structural steel shall only be cleaned and painted as required by the special provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures."

**INDEX OF SHEETS**

- S-001 GENERAL PLAN AND ELEVATION
- S-002 GENERAL NOTES, INDEX OF SHEETS; AND BILL OF MATERIAL
- S-003 DECK ELEVATION PLAN
- S-004 TOP OF DECK ELEVATIONS I
- S-005 TOP OF DECK ELEVATIONS II
- S-006 DECK PLAN
- S-007 SUPERSTRUCTURE DETAILS 1
- S-008 SUPERSTRUCTURE DETAILS 2
- S-009 PREFORMED JOINT STRIP SEAL
- S-010 DRAINAGE SCUPPER, DS-12
- S-011 BRIDGE FENCE RAILING; PARAPET MOUNTED 1
- S-012 BRIDGE FENCE RAILING; PARAPET MOUNTED 2
- S-013 STEEL FRAMING PLAN
- S-014 STRUCTURAL STEEL DETAILS
- S-015 SIGN STRUCTURE DETAILS
- S-016 WEST ABUTMENT
- S-017 WEST ABUTMENT; DETAILS AND BILL OF MATERIAL
- S-018 PIER 1 REPAIRS
- S-019 PIER 2 REPAIRS
- S-020 EAST ABUTMENT
- S-021 EAST ABUTMENT; DETAILS
- S-022 EAST ABUTMENT; DETAILS AND BILL OF MATERIAL
- S-023 BRIDGE DRAINAGE SYSTEM DETAILS
- S-024 BAR SPLICER ASSEMBLY DETAILS

**TOTAL BILL OF MATERIAL**

Item	Unit	Sub	Super	Total
POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	180		180
CONCRETE REMOVAL	CU YD	41.3		41.3
REMOVAL OF EXISTING CONCRETE DECK	L SUM		1	1
PROTECTIVE SHIELD	SQ YD		1,610	1,610
STRUCTURE EXCAVATION	CU YD	180		180
CONCRETE STRUCTURES	CU YD	48.4		48.4
CONCRETE SUPERSTRUCTURE	CU YD		525.9	525.9
BRIDGE DECK GROOVING	SQ YD		1,241	1,241
PROTECTIVE COAT	SQ YD		1,730	1,730
FURNISHING AND ERECTING STRUCTURAL STEEL	POUND		11,130	11,130
JACK AND REMOVE EXISTING BEARINGS	EACH		42	42
REINFORCEMENT BARS, EPOXY COATED	POUND	6,860	100,530	107,390
BAR SPLICERS	EACH	138		138
BRIDGE FENCE RAILING	FOOT		517	517
NAME PLATES	EACH		2	2
PREFORMED JOINT STRIP SEAL	FOOT		340	340
ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH		42	42
ANCHOR BOLTS, 1"	EACH		168	168
CONCRETE SEALER	SQ FT	876		876
EPOXY CRACK INJECTION	FOOT	75		75
DRAINAGE SCUPPERS, DS-12	EACH		6	6
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	2,223		2,223
DRAINAGE SYSTEM	L SUM		1	1
TEMPORARY SHORING AND CRIBBING	L SUM		1	1



**LIMITS OF PROTECTIVE SHIELD**

STATION 556+99.89  
 RE-BUILT 20 BY  
 STATE OF ILLINOIS  
 F.A.I. RT. 57 SEC 2021.1B-R  
 LOADING HS20 & ALT.  
 STR. NO. 016-0989

**NAME PLATE**

See Std. 515001  
 (See sheets S-016 and S-020  
 for Name Plate locations.)

SHT. S-002

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. ROUTE 57 (INTERSTATE 57)  
 111TH STREET BRIDGE DECK REPLACEMENT  
 111th STREET OVER I-57  
 SN 016-0989 STA. 556+99.89  
 COOK COUNTY

GENERAL NOTES, INDEX OF SHEETS  
 AND BILL OF MATERIAL

DATE: 01/16/09

DRAWN BY: TMH  
 CHECKED BY: JLR

**TENG**  
 TENG & ASSOCIATES, INC.  
 ENGINEERS/ARCHITECTS/PLANNERS  
 225 N. MICHIGAN AVE., CHICAGO, IL 60601  
 TELEPHONE 312.611.0000

T:\DOCUMENT\1830860\STRUCT\DCN\GEN\000\001.DGN HIGHLIGHT color Table: K:\STANDARD\TECH\DATA\COLORTABLE.TBL  
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 Plot: Table: N/A





### GIRDER 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
Bk. W. Abut.	10+94.75	39.50	619.85	619.85
⊕ Brg. W. Abut.	10+96.84	39.50	619.90	619.90
A	11+06.84	39.50	620.10	620.14
B	11+16.84	39.50	620.27	620.35
C	11+26.84	39.50	620.43	620.52
D	11+36.84	39.50	620.56	620.64
E	11+46.84	39.50	620.67	620.73
⊕ W. Brg. Pier 1	11+59.88	39.50	620.78	620.78
⊕ E. Brg. Pier 1	11+61.35	39.50	620.80	620.80
F	11+71.35	39.50	620.85	620.87
G	11+81.35	39.50	620.89	620.92
H	11+91.35	39.50	620.91	620.93
⊕ W. Brg. Pier 2	12+04.72	39.50	620.90	620.90
⊕ E. Brg. Pier 2	12+06.19	39.50	620.89	620.89
J	12+16.19	39.50	620.86	620.90
K	12+26.19	39.50	620.80	620.87
L	12+36.19	39.50	620.72	620.81
M	12+46.19	39.50	620.61	620.70
N	12+56.19	39.50	620.49	620.55
⊕ Brg. E. Abut.	12+59.22	39.50	620.30	620.30
Bk. E. Abut.	12+71.31	39.50	620.26	620.26

### SOUTH LONGITUDINAL JOINT

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
Bk. W. Abut.	10+95.96	35.42	619.96	619.96
⊕ Brg. W. Abut.	10+98.05	35.42	620.01	620.01
A	11+08.05	35.42	620.20	620.24
B	11+18.05	35.42	620.38	620.45
C	11+28.05	35.42	620.53	620.61
D	11+38.05	35.42	620.66	620.74
E	11+48.05	35.42	620.77	620.82
⊕ W. Brg. Pier 1	11+61.08	35.42	620.88	620.88
⊕ E. Brg. Pier 1	11+62.56	35.42	620.89	620.89
F	11+72.56	35.42	620.95	620.97
G	11+82.56	35.42	620.98	621.02
H	11+92.56	35.42	620.99	621.02
⊕ W. Brg. Pier 2	12+05.92	35.42	620.98	620.98
⊕ E. Brg. Pier 2	12+07.40	35.42	620.97	620.97
J	12+17.40	35.42	620.93	620.98
K	12+27.40	35.42	620.87	620.95
L	12+37.40	35.42	620.79	620.87
M	12+47.40	35.42	620.69	620.76
N	12+57.40	35.42	620.56	620.61
⊕ Brg. E. Abut.	12+70.43	35.42	620.36	620.36
Bk. E. Abut.	12+72.52	35.42	620.33	620.33

### GIRDER 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
Bk. W. Abut.	10+96.63	33.17	620.02	620.02
⊕ Brg. W. Abut.	10+98.72	33.17	620.07	620.07
A	11+08.72	33.17	620.26	620.30
B	11+18.72	33.17	620.43	620.50
C	11+28.72	33.17	620.58	620.67
D	11+38.72	33.17	620.71	620.79
E	11+48.72	33.17	620.82	620.87
⊕ W. Brg. Pier 1	11+61.75	33.17	620.93	620.93
⊕ E. Brg. Pier 1	11+63.22	33.17	620.94	620.94
F	11+73.22	33.17	621.00	621.02
G	11+83.22	33.17	621.03	621.07
H	11+93.22	33.17	621.04	621.08
⊕ W. Brg. Pier 2	12+06.59	33.17	621.02	621.02
⊕ E. Brg. Pier 2	12+08.06	33.17	621.02	621.02
J	12+18.06	33.17	620.98	621.02
K	12+28.06	33.17	620.91	620.98
L	12+38.06	33.17	620.83	620.91
M	12+48.06	33.17	620.72	620.80
N	12+58.06	33.17	620.60	620.65
⊕ Brg. E. Abut.	12+71.10	33.17	620.40	620.40
Bk. E. Abut.	12+73.19	33.17	620.36	620.36

### GIRDER 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
Bk. W. Abut.	10+98.50	26.83	620.20	620.20
⊕ Brg. W. Abut.	11+00.59	26.83	620.24	620.24
A	11+10.59	26.83	620.43	620.47
B	11+20.59	26.83	620.60	620.66
C	11+30.59	26.83	620.74	620.82
D	11+40.59	26.83	620.87	620.94
E	11+50.59	26.83	620.97	621.02
⊕ W. Brg. Pier 1	11+63.62	26.83	621.07	621.07
⊕ E. Brg. Pier 1	11+65.10	26.83	621.08	621.08
F	11+75.10	26.83	621.13	621.16
G	11+85.10	26.83	621.16	621.21
H	11+95.10	26.83	621.17	621.21
⊕ W. Brg. Pier 2	12+08.46	26.83	621.15	621.15
⊕ E. Brg. Pier 2	12+09.94	26.83	621.14	621.14
J	12+19.94	26.83	621.10	621.14
K	12+29.94	26.83	621.03	621.10
L	12+39.94	26.83	620.94	621.03
M	12+49.94	26.83	620.83	620.91
N	12+59.94	26.83	620.70	620.75
⊕ Brg. E. Abut.	12+72.97	26.83	620.50	620.50
Bk. E. Abut.	12+75.06	26.83	620.46	620.46

### GIRDER 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
Bk. W. Abut.	11+00.37	20.50	620.37	620.37
⊕ Brg. W. Abut.	11+02.46	20.50	620.41	620.41
A	11+12.46	20.50	620.59	620.63
B	11+22.46	20.50	620.76	620.83
C	11+32.46	20.50	620.90	620.98
D	11+42.46	20.50	621.02	621.10
E	11+52.46	20.50	621.12	621.17
⊕ W. Brg. Pier 1	11+65.49	20.50	621.22	621.22
⊕ E. Brg. Pier 1	11+66.97	20.50	621.23	621.23
F	11+76.97	20.50	621.27	621.30
G	11+86.97	20.50	621.30	621.34
H	11+96.97	20.50	621.30	621.34
⊕ W. Brg. Pier 2	12+10.33	20.50	621.28	621.28
⊕ E. Brg. Pier 2	12+11.81	20.50	621.27	621.27
J	12+21.81	20.50	621.22	621.26
K	12+31.81	20.50	621.15	621.22
L	12+41.81	20.50	621.06	621.14
M	12+51.81	20.50	620.94	621.02
N	12+61.81	20.50	620.81	620.86
⊕ Brg. E. Abut.	12+74.84	20.50	620.60	620.60
Bk. E. Abut.	12+76.93	20.50	620.56	620.56

### GIRDER 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
Bk. W. Abut.	11+02.24	14.17	620.53	620.53
⊕ Brg. W. Abut.	11+04.33	14.17	620.58	620.58
A	11+14.33	14.17	620.76	620.80
B	11+24.33	14.17	620.92	620.99
C	11+34.33	14.17	621.06	621.14
D	11+44.33	14.17	621.17	621.25
E	11+54.33	14.17	621.27	621.32
⊕ W. Brg. Pier 1	11+67.36	14.17	621.36	621.36
⊕ E. Brg. Pier 1	11+68.84	14.17	621.37	621.37
F	11+78.84	14.17	621.41	621.44
G	11+88.84	14.17	621.43	621.48
H	11+98.84	14.17	621.43	621.47
⊕ W. Brg. Pier 2	12+12.20	14.17	621.40	621.40
⊕ E. Brg. Pier 2	12+13.68	14.17	621.39	621.39
J	12+23.68	14.17	621.34	621.38
K	12+33.68	14.17	621.27	621.34
L	12+43.68	14.17	621.17	621.25
M	12+53.68	14.17	621.05	621.13
N	12+63.68	14.17	620.91	620.96
⊕ Brg. E. Abut.	12+76.71	14.17	620.70	620.70
Bk. E. Abut.	12+78.80	14.17	620.66	620.66

### GIRDER 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
Bk. W. Abut.	11+04.11	7.83	620.68	620.68
⊕ Brg. W. Abut.	11+06.20	7.83	620.72	620.72
A	11+16.20	7.83	620.90	620.94
B	11+26.20	7.83	621.05	621.12
C	11+36.20	7.83	621.19	621.27
D	11+46.20	7.83	621.30	621.38
E	11+56.20	7.83	621.39	621.45
⊕ W. Brg. Pier 1	11+69.23	7.83	621.48	621.48
⊕ E. Brg. Pier 1	11+70.71	7.83	621.49	621.49
F	11+80.71	7.83	621.53	621.56
G	11+90.71	7.83	621.55	621.59
H	12+00.71	7.83	621.54	621.58
⊕ W. Brg. Pier 2	12+14.07	7.83	621.50	621.50
⊕ E. Brg. Pier 2	12+15.55	7.83	621.50	621.50
J	12+25.55	7.83	621.44	621.48
K	12+35.55	7.83	621.36	621.43
L	12+45.55	7.83	621.26	621.34
M	12+55.55	7.83	621.14	621.21
N	12+65.55	7.83	620.99	621.04
⊕ Brg. E. Abut.	12+78.58	7.83	620.77	620.77
Bk. E. Abut.	12+80.67	7.83	620.74	620.74

### GIRDER 7

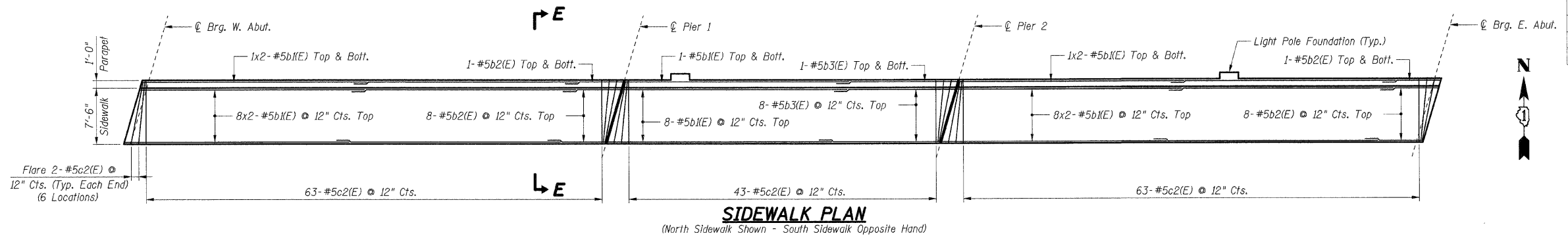
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
Bk. W. Abut.	11+05.98	1.50	620.82	620.82
⊕ Brg. W. Abut.	11+08.07	1.50	620.85	620.85
A	11+18.07	1.50	621.03	621.06
B	11+28.07	1.50	621.18	621.24
C	11+38.07	1.50	621.31	621.38
D	11+48.07	1.50	621.42	621.48
E	11+58.07	1.50	621.51	621.55
⊕ W. Brg. Pier 1	11+71.10	1.50	621.59	621.59
⊕ E. Brg. Pier 1	11+72.58	1.50	621.60	621.60
F	11+82.58	1.50	621.63	621.66
G	11+92.58	1.50	621.65	621.68
H	12+02.58	1.50	621.64	621.67
⊕ W. Brg. Pier 2	12+15.94	1.50	621.59	621.59
⊕ E. Brg. Pier 2	12+17.42	1.50	621.59	621.59
J	12+27.42	1.50	621.52	621.56
K	12+37.42	1.50	621.44	621.50
L	12+47.42	1.50	621.34	621.40
M	12+57.42	1.50	621.21	621.27
N	12+67.42	1.50	621.06	621.10
⊕ Brg. E. Abut.	12+80.45	1.50	620.84	620.84
Bk. E. Abut.	12+82.54	1.50	620.80	620.80

### PROFILE GRADE LINE 111TH ST.

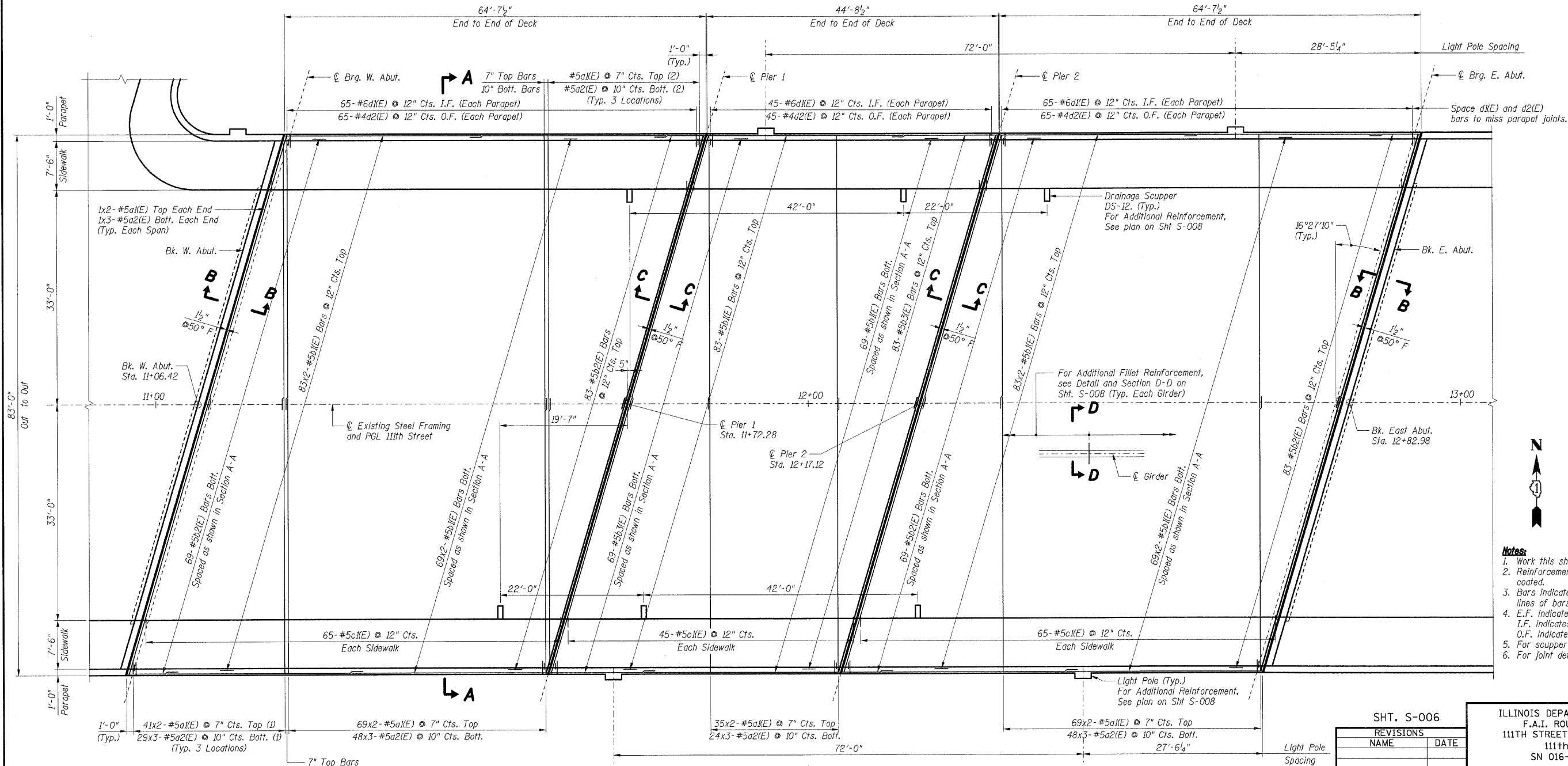
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Bk. W. Abut.	11+06.42	0.00	620.85	620.85
⊕ Brg. W. Abut.	11+08.51	0.00	620.89	620.89
A	11+18.51	0.00	621.06	621.09
B	11+28.51	0.00	621.21	621.26
C	11+38.51	0.00	621.34	621.40
D	11+48.51	0.00	621.45	621.50
E	11+58.51	0.00	621.54	621.57
⊕ W. Brg. Pier 1	11+71.54	0.00	621.62	621.62
⊕ E. Brg. Pier 1	11+73.02	0.00	621.62	621.62
F	11+83.02	0.00	621.66	621.68
G	11+93.02	0.00	621.67	621.70
H	12+03.02	0.00	621.66	621.69
⊕ W. Brg. Pier 2	12+16.38	0.00	621.61	621.61
⊕ E. Brg. Pier 2	12+17.86	0.00	621.61	621.61
J	12+27.86	0.00	621.54	621.58
K	12+37.86	0.00	621.46	621.51
L				



F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021:IB-R	COOK	101	070
STA.	TO STA.			
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62532				



**SIDEWALK PLAN**  
(North Sidewalk Shown - South Sidewalk Opposite Hand)



**DECK PLAN**

**Reinforcing Notes:**  
(1) Cut bars to fit in field and use remainder in opposite end of deck.  
(2) Use remainder of bars from opposite end of deck.

LAP LENGTHS	
Bar Size	Min. Lap
#4	1'-4"
#5	1'-8"
#6	2'-0"

- Notes:**
1. Work this sheet with Shts. S-007 & S-008.
  2. Reinforcement bars designated (E) shall be epoxy coated.
  3. Bars indicated thus 30 x 2-#5 etc. indicates 30 lines of bars with 2 lengths per line.
  4. E.F. indicates Each Face  
I.F. indicates Inside Face  
O.F. indicates Outside Face
  5. For scupper details, see Sht. S-010.
  6. For joint details, see Sht. S-009.

SHT. S-006

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. ROUTE 57 (INTERSTATE 57)  
111TH STREET BRIDGE DECK REPLACEMENT  
111th STREET OVER I-57  
SN 016-0989 STA. 556+99.89  
COOK COUNTY

DECK PLAN

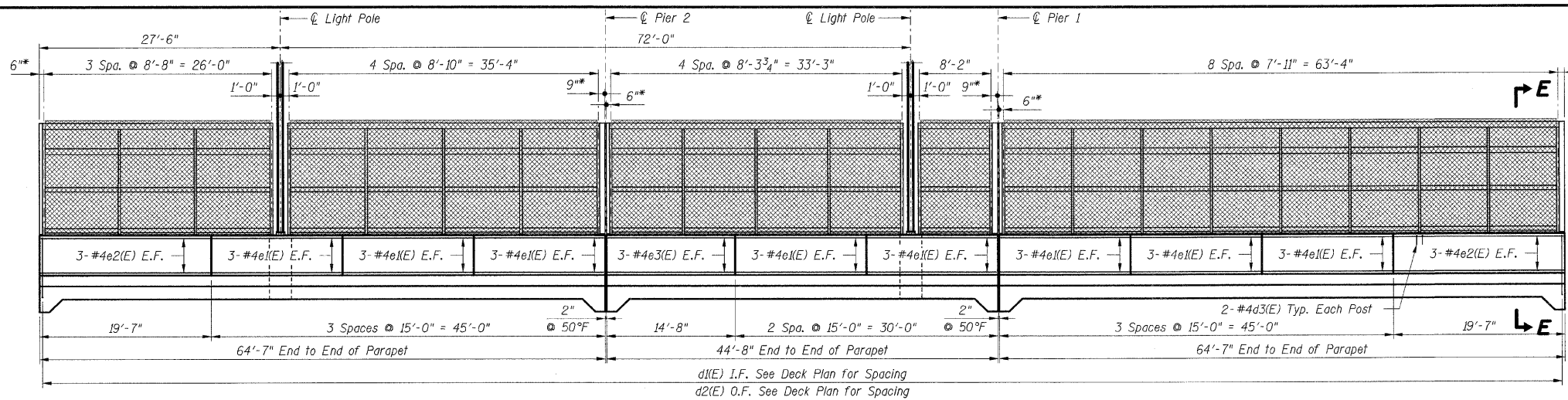
DATE: 01/16/09

DRAWN BY: TMH  
CHECKED BY: JLR

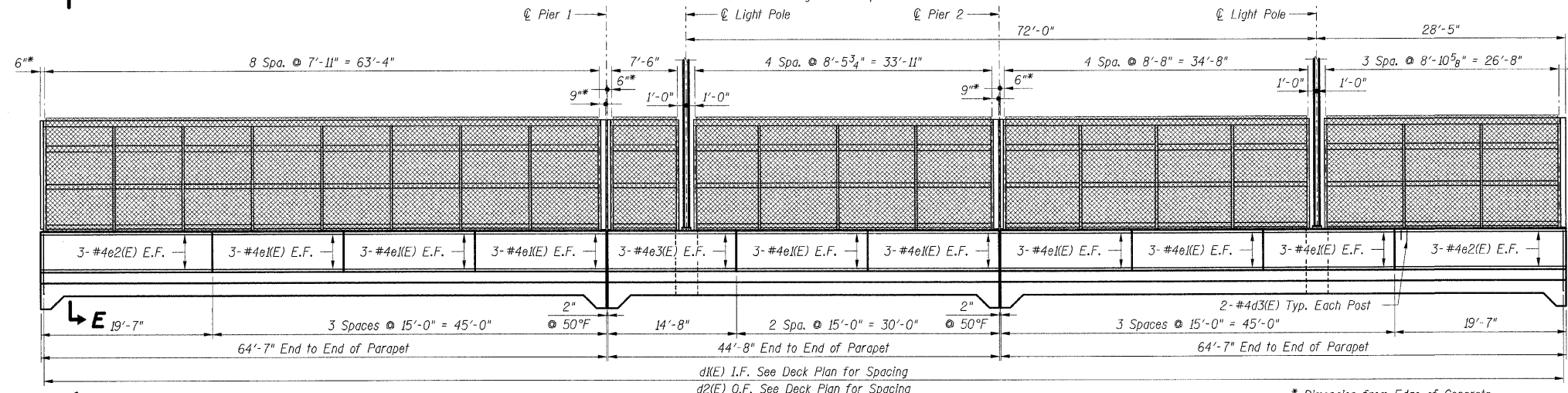
**TENG**  
TENG & ASSOCIATES, INC.  
ENGINEERS/ARCHITECTS/PLANNERS  
225 N. MICHIGAN AVE., CHICAGO, IL 60601  
TELEPHONE: 312.616.0000

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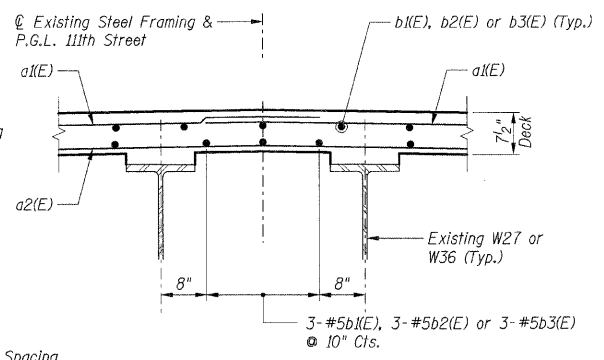
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.1B-R	COOK	101	071
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62532				



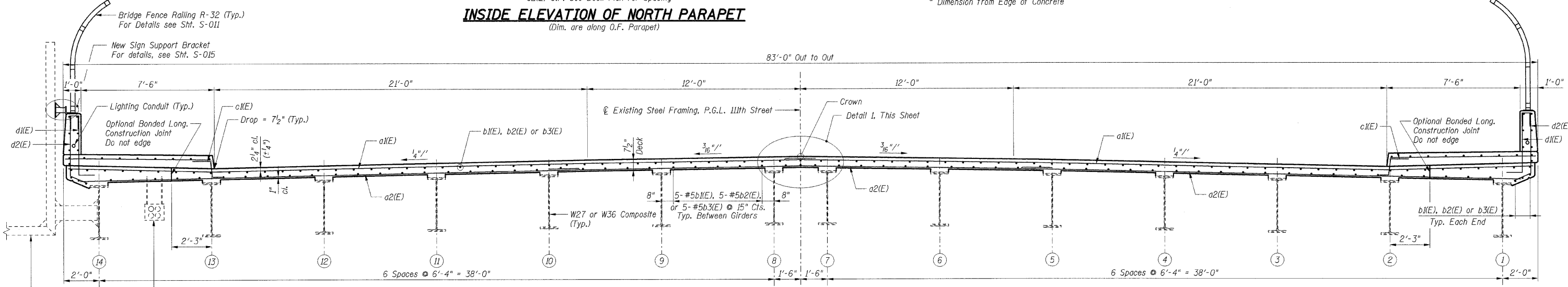
**INSIDE ELEVATION OF SOUTH PARAPET**  
(Dim. are along O.F. Parapet)



**INSIDE ELEVATION OF NORTH PARAPET**  
(Dim. are along O.F. Parapet)



**DETAIL 1**



**SECTION A-A**

- Notes:**
1. Work this sheet with Shts. S-006 & S-008.
  2. Slipforming of parapets is not allowed.
  3. Reinforcement bars designated (E) shall be epoxy coated.
  4. Bars indicated thus 30 x 2-#5 etc. indicates 30 lines of bars with 2 lengths per line.
  5. E.F. indicates Each Face  
I.F. indicates Inside Face  
O.F. indicates Outside Face

LAP LENGTHS		
Bar Size	Min. Lap	
#4	1'-11"	
#5	1'-8"	

**Note A:**  
Contractor shall provide and install new inserts and hangers to support existing conduits. Inserts and hangers shall be approved by the Engineer. Cost shall be included with Concrete Superstructure.

SHT. S-007

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. ROUTE 57 (INTERSTATE 57)  
111TH STREET BRIDGE DECK REPLACEMENT  
111TH STREET OVER I-57  
SN 016-0989 STA. 556+99.89  
COOK COUNTY

**SUPERSTRUCTURE DETAILS 1**

DATE: 01/16/09

DRAWN BY: TMH  
CHECKED BY: JLR

**TENG**  
TENG & ASSOCIATES, INC.  
ENGINEERS/ARCHITECTS/PLANNERS  
225 N. MICHIGAN AVE., CHICAGO, IL 60601  
TELEPHONE: 312.642.6000

S:\SUDONKY\2009\2009\_11\PROJECT\111ST\111ST\_DECK\111ST\_DECK\_SHTS\111ST\_DECK\_SHT\_S-007.DWG  
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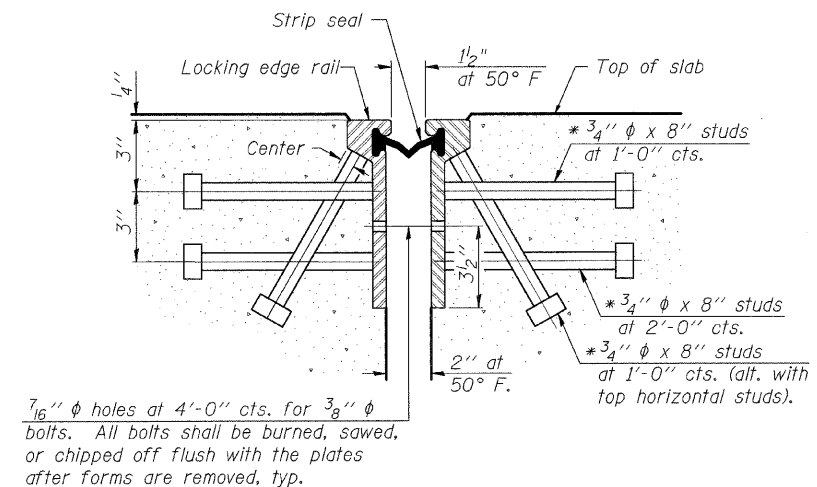




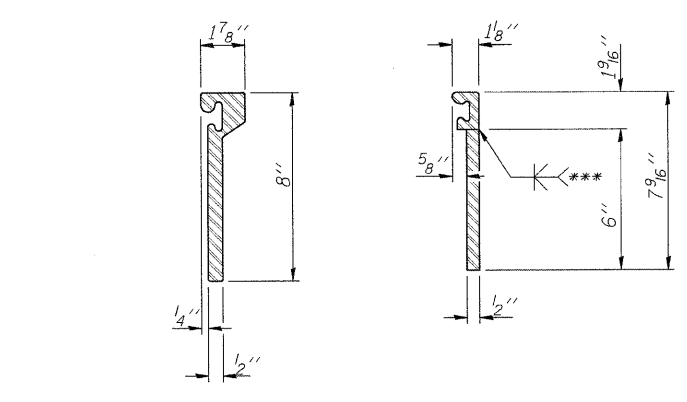


F.A.I. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57 2021.1B-R	COOK	101	073
STA. TO STA.		FED. AID PROJECT	
CONTRACT NO. 62532			

\* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



**SECTION THRU ROLLED RAIL JOINT**

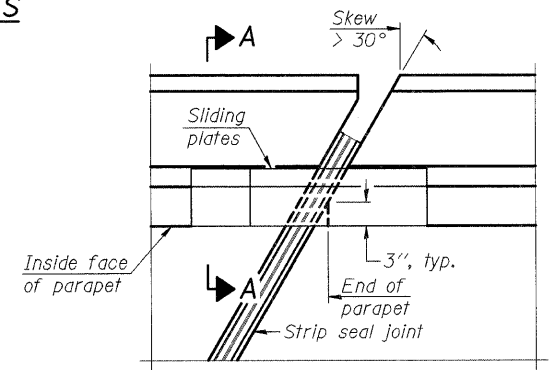


**ROLLED EXTRUDED RAIL WELDED RAIL**

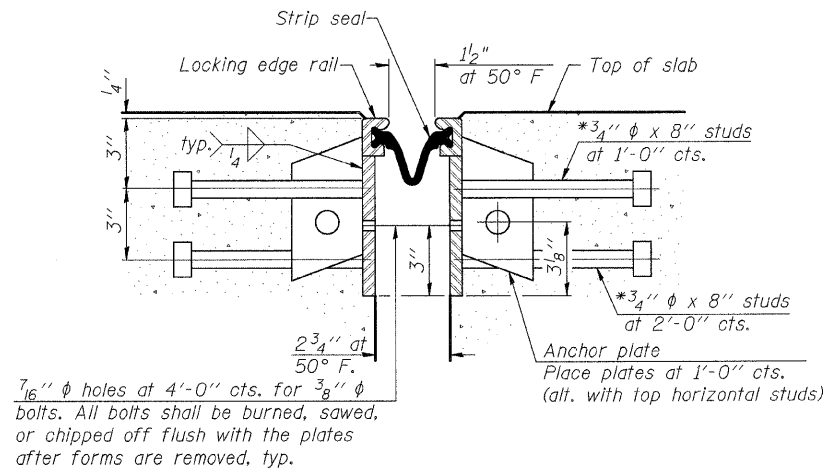
**LOCKING EDGE RAIL SPLICE**

The inside of the locking edge rail groove shall be free of weld residue.

**LOCKING EDGE RAILS**

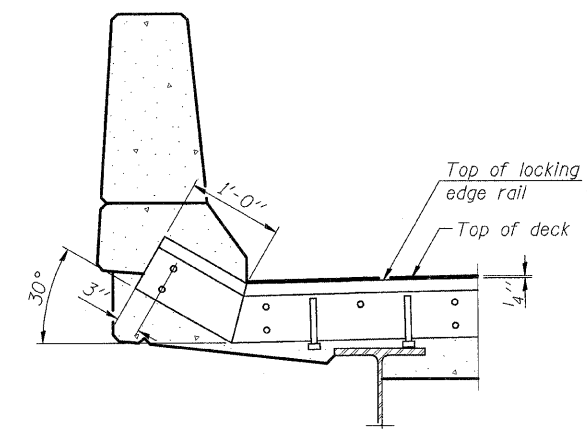
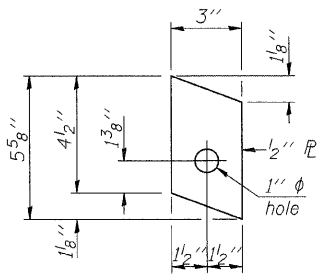


**PLAN**

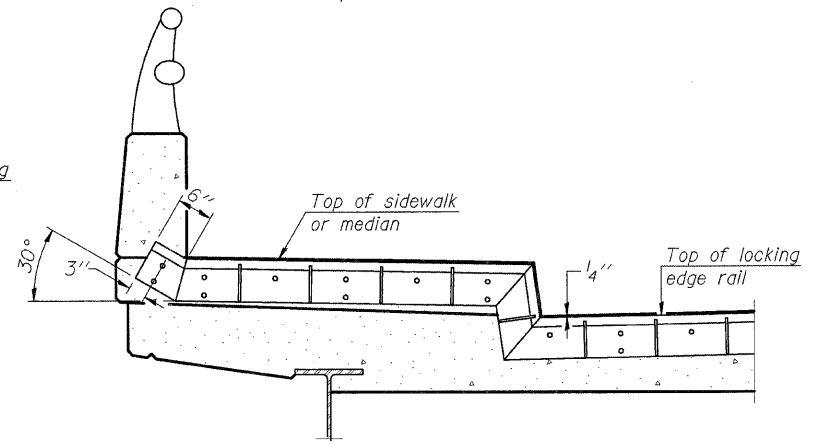


**SECTION THRU WELDED RAIL JOINT**

**ANCHOR PLATE (for welded rail)**



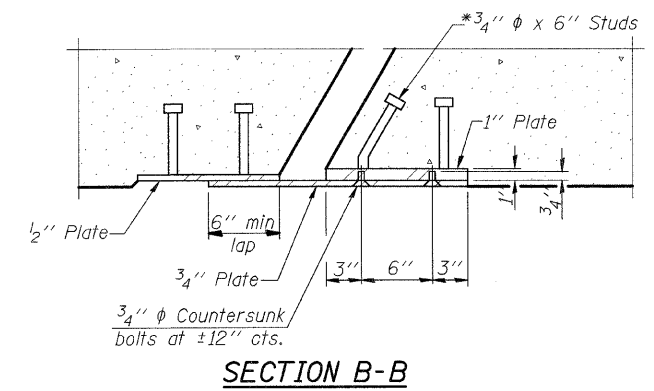
**AT PARAPET**



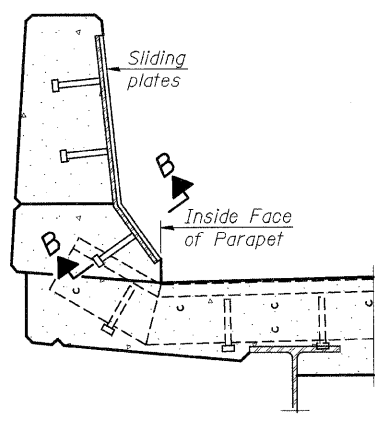
**AT SIDEWALK OR MEDIAN**

Shorter plates with a single row of studs at 12 inch centers may be necessary on medians which are shallower than 9 inches. See manufacturer's recommendation.

**TYPICAL END TREATMENTS**



**SECTION B-B**



**SECTION A-A**

**POINT BLOCK DETAILS (for skews > 30 degrees)**

**BILL OF MATERIAL**

Item	Unit	Total
Preformed Joint Strip Seal	Foot	340

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. ROUTE 57 (INTERSTATE 57)  
 111TH STREET BRIDGE DECK REPLACEMENT  
 111th STREET OVER I-57  
 SN 016-0989 STA. 556+99.89  
 COOK COUNTY

PREFORMED JOINT STRIP SEAL

DATE: 01/16/09 DRAWN BY: TMH CHECKED BY: JLR

**TENG**

TENG & ASSOCIATES, INC.  
 ENGINEERS/ARCHITECTS/PLANNERS  
 205 N. MICHIGAN AVE., CHICAGO, IL 60601  
 TELEPHONE 312.616.0000

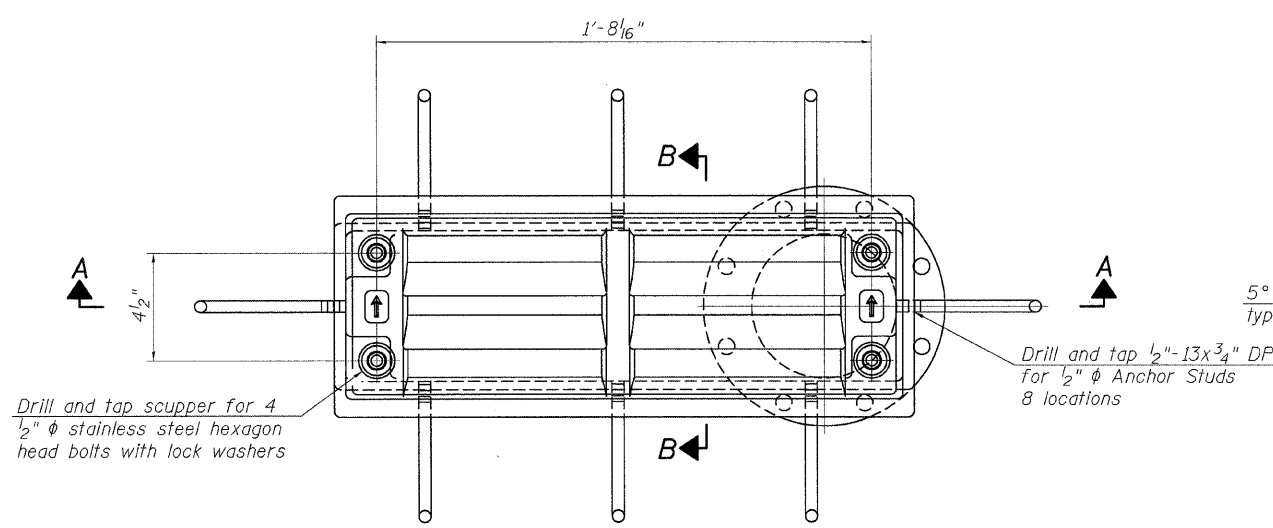
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 RITCHIE

EJ-SSJ

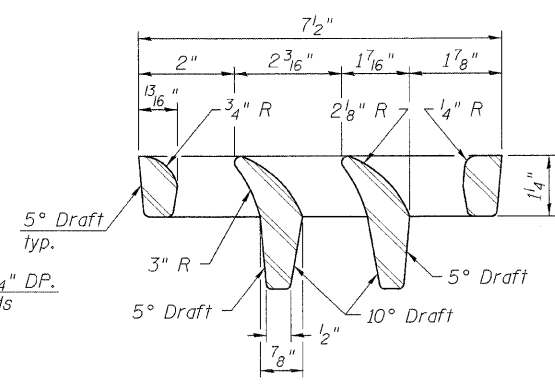
10-1-08

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.1B-R	COOK	101	074
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62532				

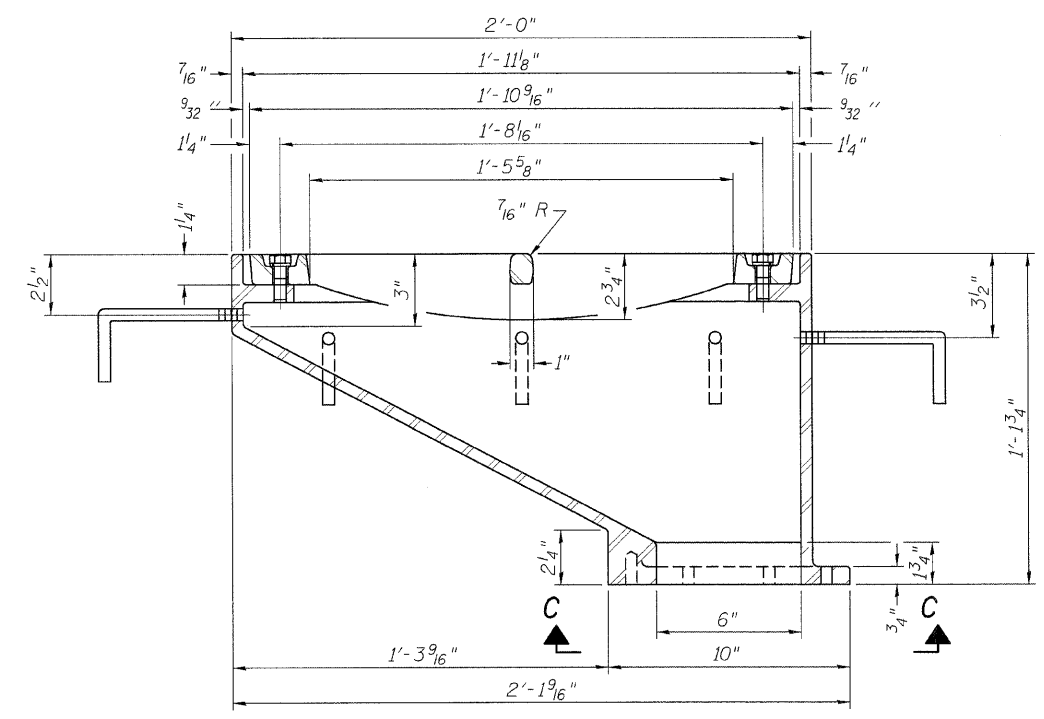
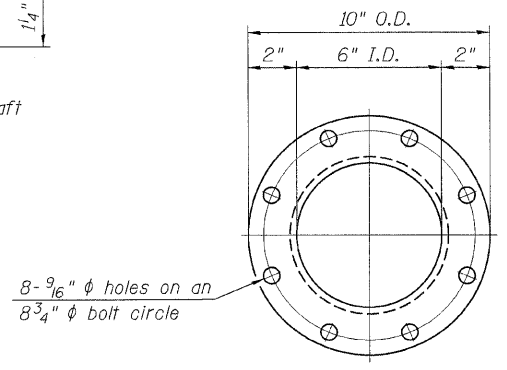
**Notes:**  
 All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.  
 Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.  
 Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.  
 As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.  
 Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frame. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel frames and downspouts shall be galvanized according to AASHTO M111.  
 The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.  
 Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-12.  
 Alternate fiberglass downspout conforming to ASTM D 2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. may be used in lieu of the cast iron or steel equivalent.



**PLAN**

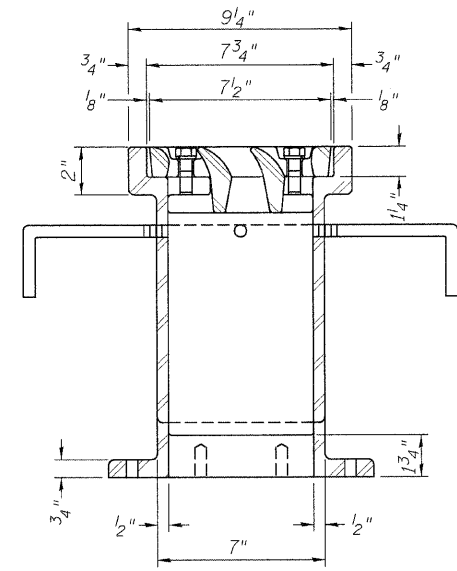


**VANE GRATE DETAIL**



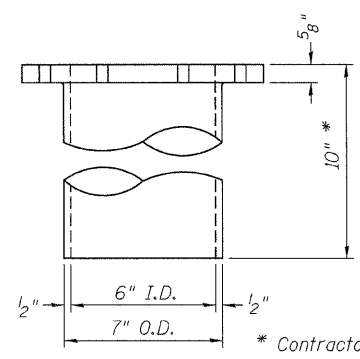
**SECTION A-A**

See sheet of for scupper location relative to parapet.

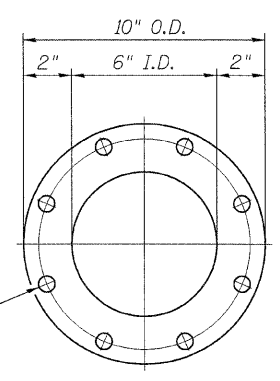


**SECTION B-B**

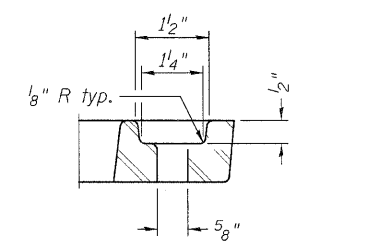
Drill and tap 8 holes for 1/2"-13 bolts on an 8 3/4" φ bolt circle. (2 blind holes are 1/4" deep, 6 thru holes)



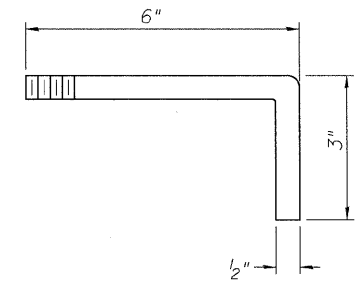
**DOWNSPOUT**



**VIEW C-C**



**BOLT HOLE DETAIL**



**ANCHOR STUD DETAIL**

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-12	Each	6

SHT. S-010

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. ROUTE 57 (INTERSTATE 57)  
 111TH STREET BRIDGE DECK REPLACEMENT  
 111th STREET OVER I-57  
 SN 016-0989 STA. 556+99.89  
 COOK COUNTY

DRAINAGE SCUPPER, DS-12

DATE: 01/16/09

DRAWN BY: TMH  
 CHECKED BY: JLR

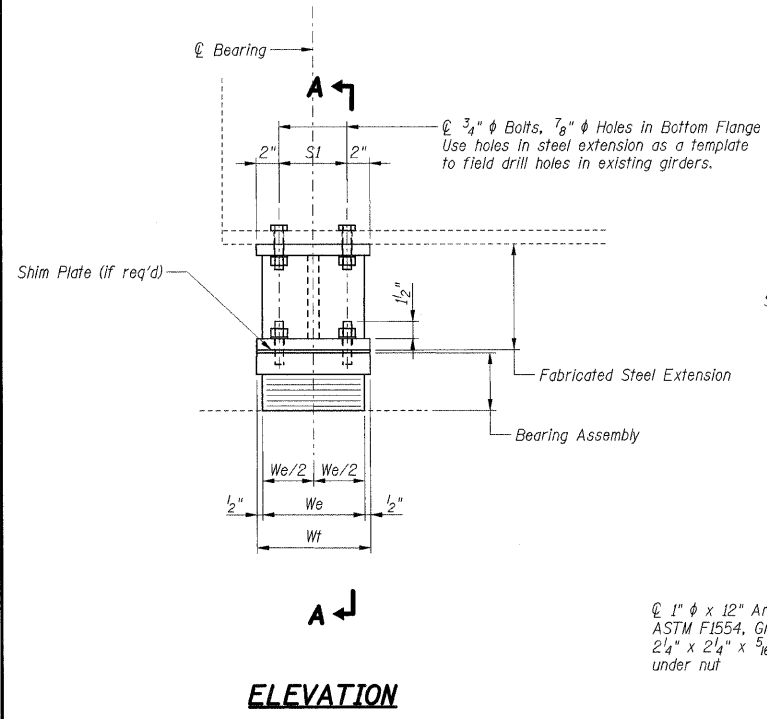
**TENG**  
 TENG & ASSOCIATES, INC.  
 ENGINEERS/ARCHITECTS/PLANNERS  
 205 N. MICHIGAN AVE., CHICAGO, IL 60601  
 TELEPHONE: 312.461.0000

I:\BIB\BIB\030660\STRUCT\DRN\SCUPPER.DGN HOUGHTON  
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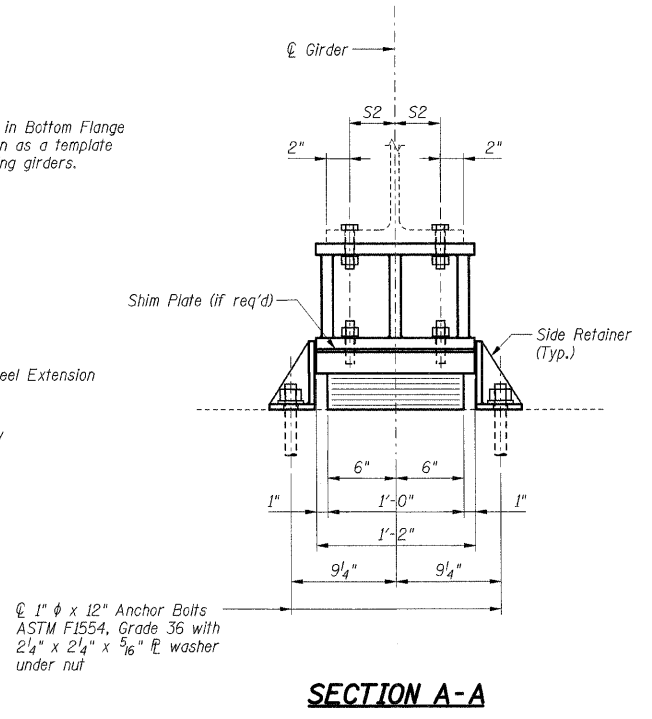






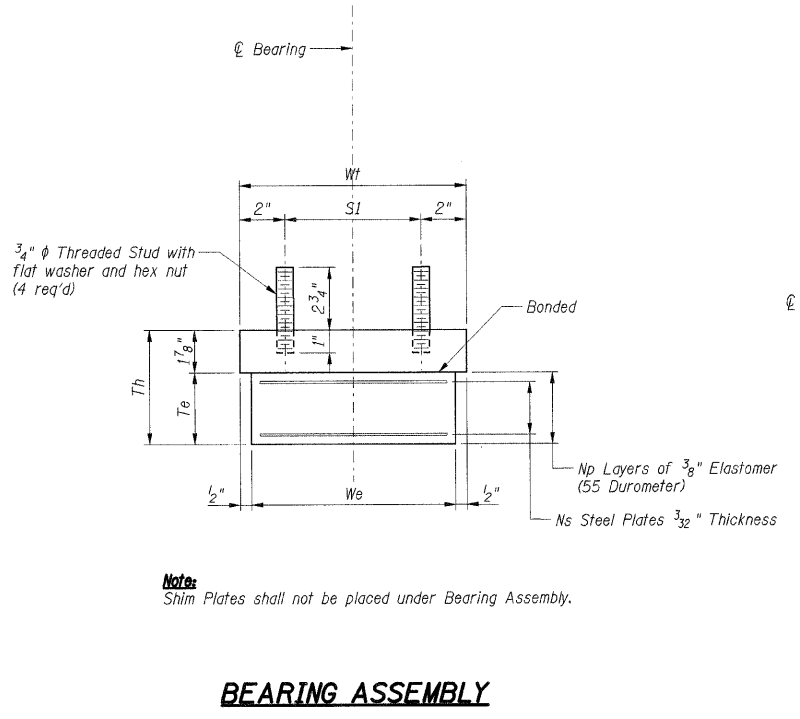


**ELEVATION**



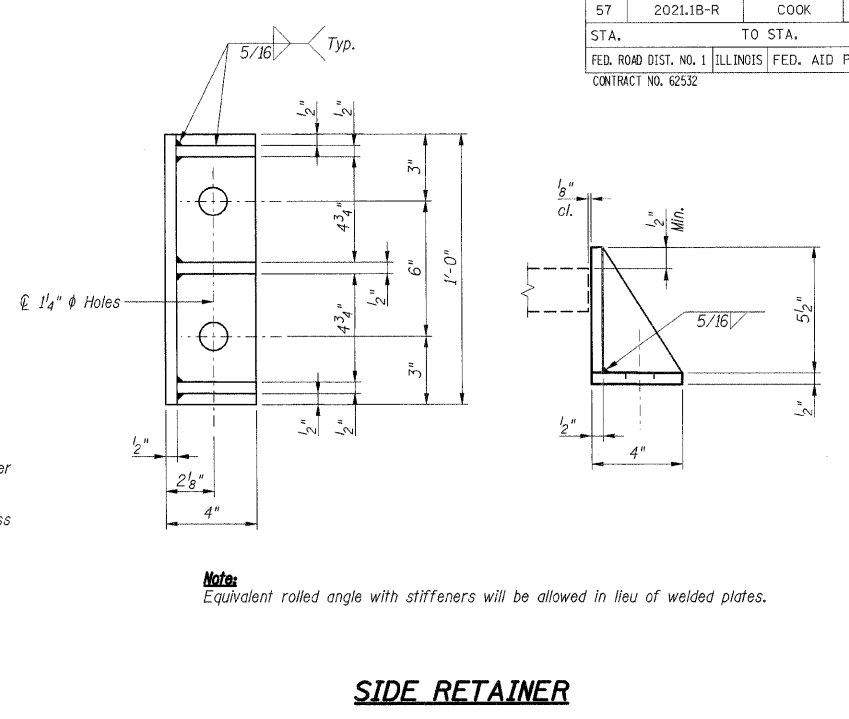
**SECTION A-A**

$\phi$  1"  $\phi$  x 12" Anchor Bolts  
 ASTM F1554, Grade 36 with  
 2 1/4" x 2 1/4" x 5/16"  $\phi$  washer  
 under nut



**Notes:**  
 Shim Plates shall not be placed under Bearing Assembly.

**BEARING ASSEMBLY**



**Notes:**  
 Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

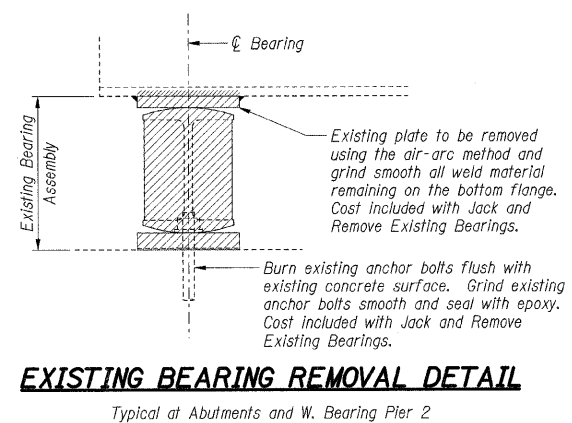
**SIDE RETAINER**

**ELASTOMERIC BEARING SCHEDULE**

Bearing Location	Girders	Type	Designation	Number Required	Th	H	We	Te	Np	Ns	Wf	S1	S2
W. and E. Abut.	1 - 14	I	9-a	28	4 1/2"	9 1/2"	9"	2 1/4"	5	4	10"	6"	4"
W. Brg. Pier 2	2 - 13	I	7-b	12	3 5/8"	9 1/8"	7"	1 3/4"	4	3	8"	4"	3"
	1 and 14	I	7-b	2	3 5/8"	10 1/4"	7"	1 3/4"	4	3	8"	4"	4"

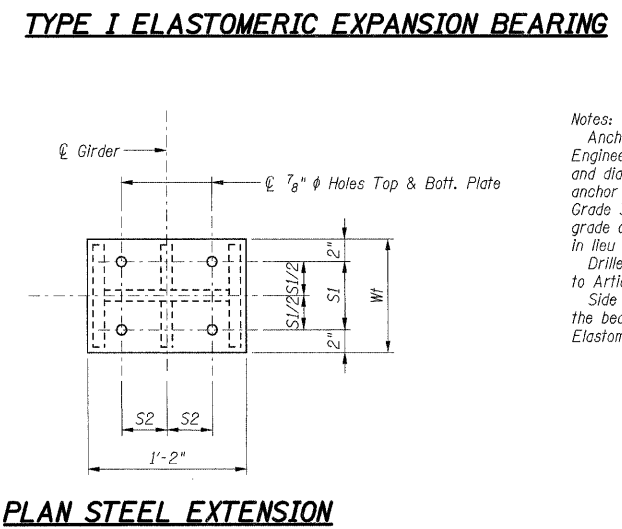
**BILL OF MATERIAL**

Item	Unit	Total
Jack and Remove Existing Bearings	Each	42
Elastomeric Bearing Assembly, Type I	Each	42
Anchor Bolts, 1"	Each	168



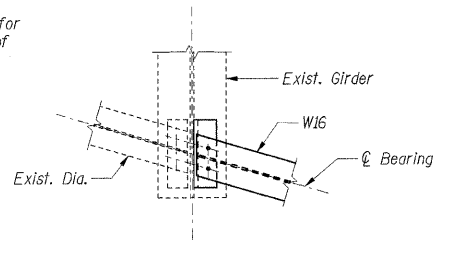
**EXISTING BEARING REMOVAL DETAIL**

Typical at Abutments and W. Bearing Pier 2

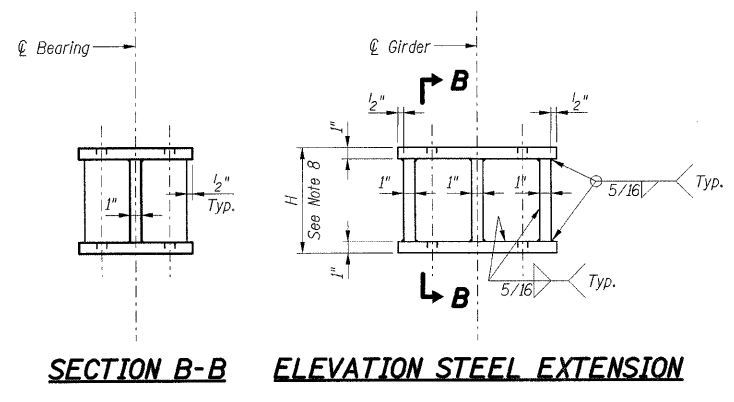


**PLAN STEEL EXTENSION**

**Notes:**  
 Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. ASTM A307 Grade C anchor bolts may be used in lieu of ASTM F1554 Grade 36 (Fy=36ksi). The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.  
 Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.  
 Side retainers and other steel members required for the bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.



**END DIAPHRAGM (6 THUS)**

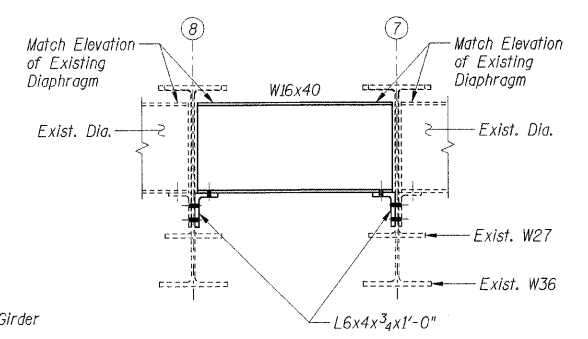


**SECTION B-B ELEVATION STEEL EXTENSION**

Use existing holes in girder web as a template to field drill holes in vertical leg of connection angle. Replace existing bolts with 3/4"  $\phi$  H.S. Bolts of correct length.

**FABRICATED STEEL EXTENSION**

**Notes:**  
 Weight included with Furnishing and Erecting Structural Steel.



- Notes:**
- The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50.
  - Fabricated steel extensions shall be AASHTO M 270 Grade 50.
  - All bolts and threaded studs shall be AASHTO M 164 (ASTM A 325).
  - Two hardened washers shall be required over all oversize holes.
  - For anchor bolt layout details see Sheets S-016, S-019, and S-020.
  - Steel extension height "H" determined from record plans. Prior to ordering any material the Contractor shall verify in the field all bearing height and shim thickness dimensions.
  - It is the responsibility of the Contractor to determine the top of girder elevations in the field prior to jacking and removal of the existing bearings and to rebuild to the field-verified elevations.
  - The Contractor shall submit for approval by the Engineer plans for lifting the existing girders and installing the new bearings prior to commencing any related work. The existing girders shall be lifted only after the existing concrete deck has been removed. The new bearings and steel extensions shall be in place and the jacks shall be lowered before the new concrete deck is placed.

SHT. S-014

REVISIONS	NAME	DATE

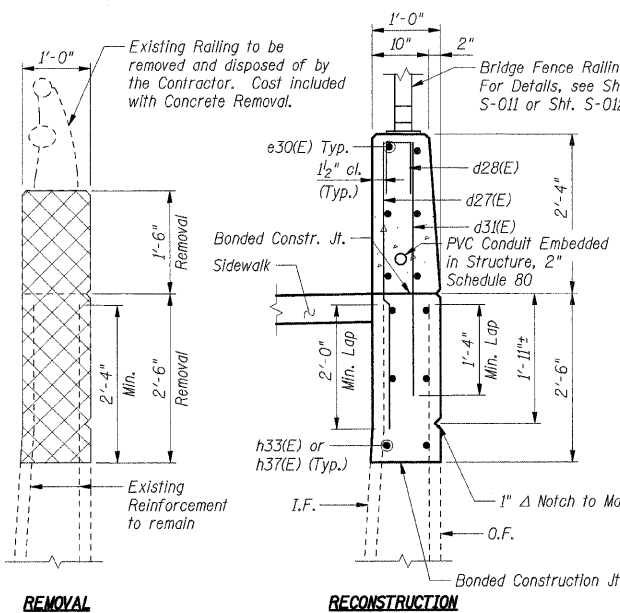
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. ROUTE 57 (INTERSTATE 57)  
 111TH STREET BRIDGE DECK REPLACEMENT  
 111th STREET OVER I-57  
 SN 016-0989 STA. 556+99.89  
 COOK COUNTY  
 STRUCTURAL STEEL DETAILS  
 DRAWN BY: CCE  
 CHECKED BY: JLR  
 DATE: 01/16/09  
**TENG**  
 TENG & ASSOCIATES, INC.  
 ENGINEERS/ARCHITECTS/PLANNERS  
 205 N. MICHIGAN AVE., CHICAGO, IL 60601  
 TELEPHONE: 312.616.0000

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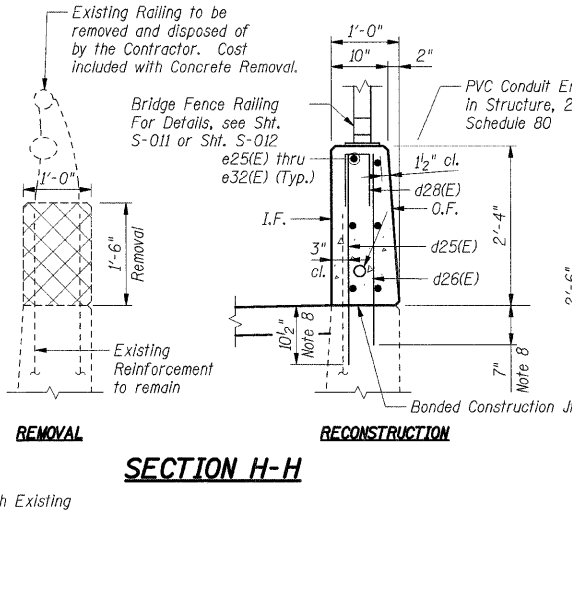




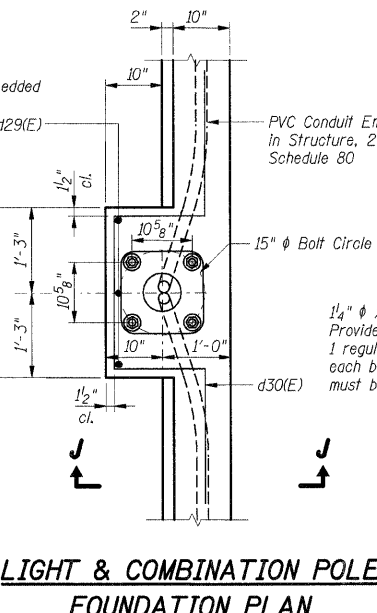




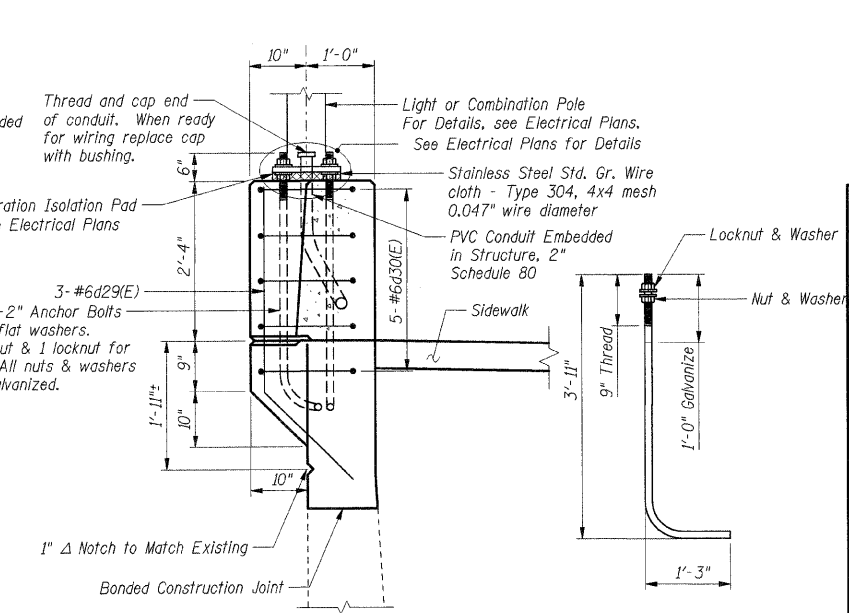
**SECTION G-G**



**SECTION H-H**



**LIGHT & COMBINATION POLE FOUNDATION PLAN**  
(1 Thus Light Pole Foundation)  
(1 Thus Combination Pole Foundation)



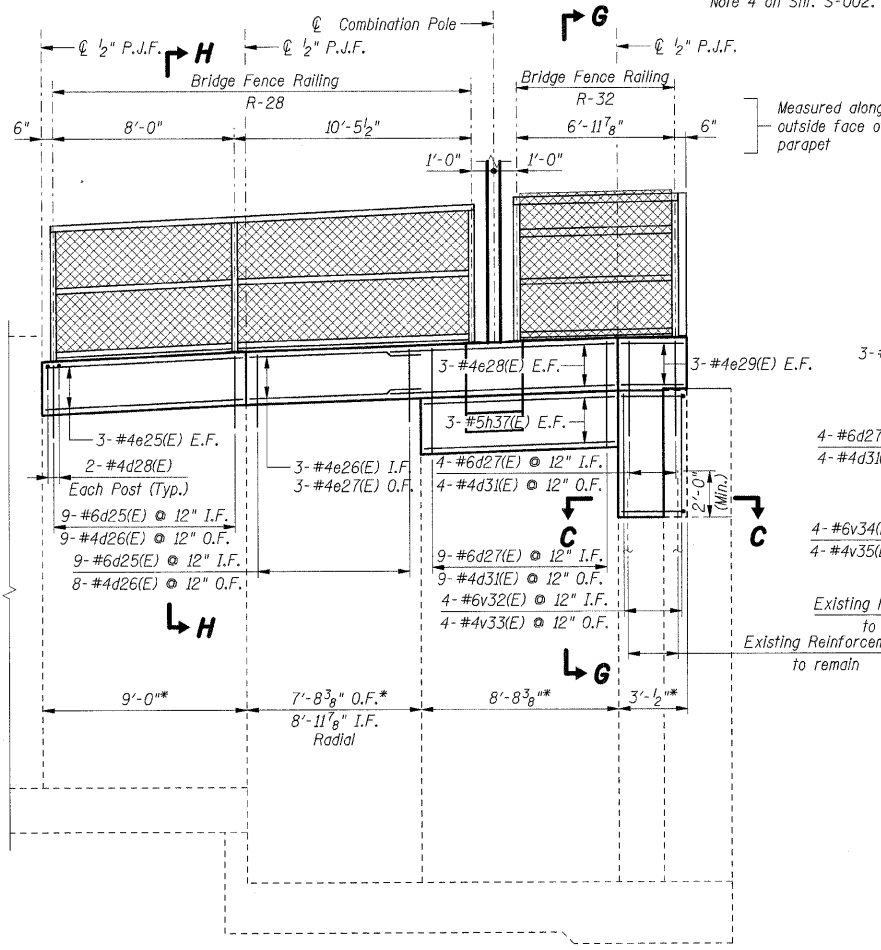
**SECTION J-J**

**1/4" ANCHOR BOLT**  
(ASTM F 1554 Grade 105)

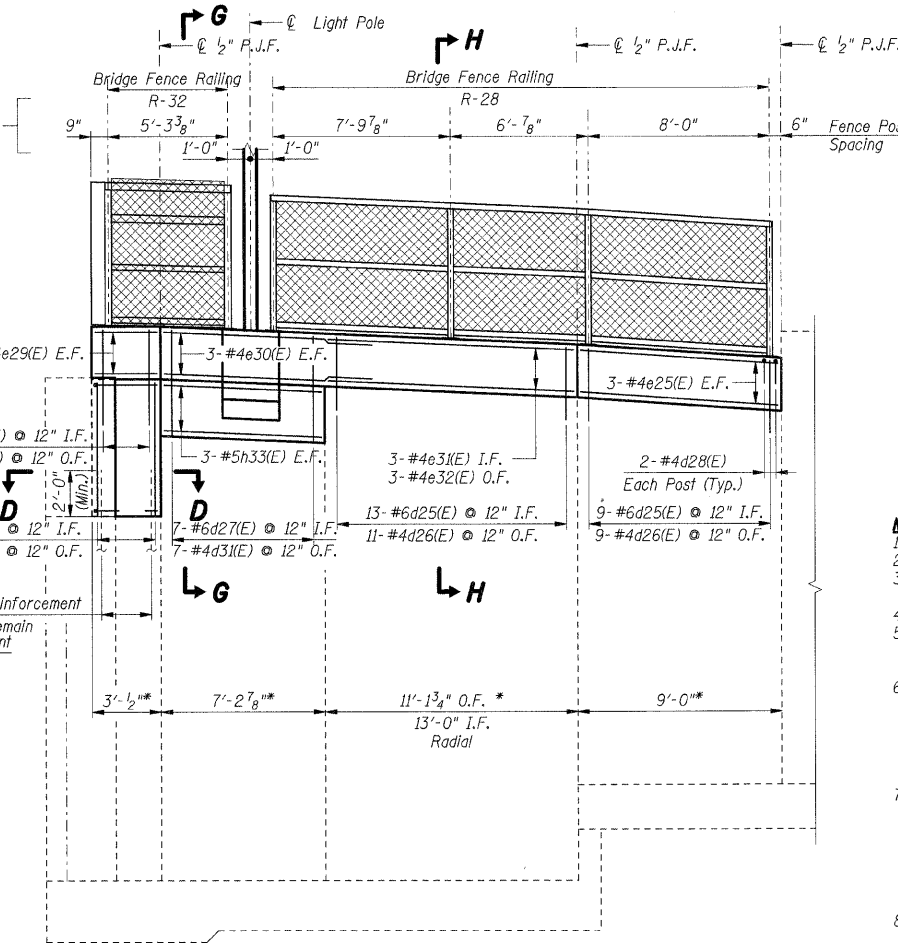
**BAR LIST**

Bar	No.	Size	Length	Shape
d25(E)	40	#6	3'-1"	
d26(E)	37	#4	2'-9"	
d27(E)	24	#6	4'-4"	
d28(E)	22	#4	2'-6"	
d29(E)	6	#6	4'-9"	
d30(E)	10	#6	8'-11"	
d31(E)	24	#4	3'-8"	
e25(E)	12	#4	8'-8"	
e26(E)	3	#4	8'-6"	
e27(E)	3	#4	8'-0"	
e28(E)	6	#4	10'-5"	
e29(E)	12	#4	2'-9"	
e30(E)	6	#4	9'-0"	
e31(E)	3	#4	12'-5"	
e32(E)	3	#4	11'-7"	
h25(E)	8	#5	44'-4"	
h26(E)	4	#6	44'-6"	
h27(E)	4	#5	2'-3"	
h28(E)	4	#6	8'-4"	
h29(E)	6	#5	5'-2"	
h30(E)	6	#5	5'-11"	
h31(E)	6	#5	5'-0"	
h32(E)	6	#5	5'-4"	
h33(E)	6	#5	7'-0"	
h35(E)	4	#5	36'-1"	
h36(E)	4	#5	11'-1"	
h37(E)	6	#5	8'-5"	
v25(E)	16	#4	3'-5"	
v26(E)	69	#4	3'-3"	
v27(E)	69	#4	5'-2"	
v28(E)	32	#4	5'-5"	
v29(E)	69	#5	3'-2"	
v30(E)	69	#4	3'-4"	
v32(E)	4	#6	5'-6"	
v33(E)	4	#4	5'-6"	
v34(E)	4	#6	5'-11"	
v35(E)	4	#4	5'-11"	

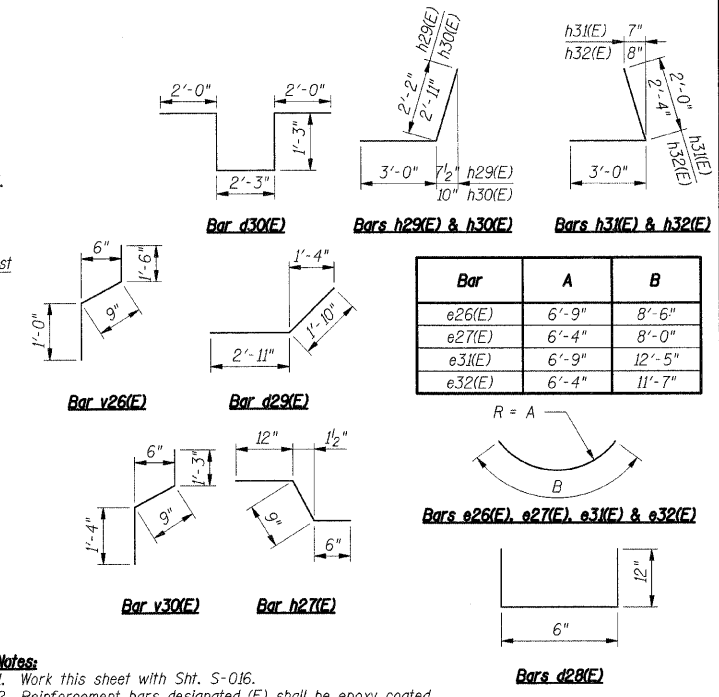
\* Dimensions related to existing conditions have been developed from record plan data and should be field verified according to Note 4 on Sht. S-002.



**DEVELOPED ELEVATION SOUTHWEST RETAINING WALL**



**DEVELOPED ELEVATION NORTHWEST RETAINING WALL**



Bar	A	B
e26(E)	6'-9"	8'-6"
e27(E)	6'-4"	8'-0"
e32(E)	6'-9"	12'-5"
e32(E)	6'-4"	11'-7"

**Bars e26(E), e27(E), e31(E) & e32(E)**

LAP LENGTHS		
Bar Size	Min.	Lap
#4	1'-11"	
#5	1'-8"	
#6	2'-0"	

**SHT. S-017**

REVISIONS	
NAME	DATE

- Notes:**
- Work this sheet with Sht. S-016.
  - Reinforcement bars designated (E) shall be epoxy coated.
  - Bars indicated thus 30 x 2-#5 etc. indicates 30 lines of bars with 2 lengths per line.
  - All edges shall have standard 3/4" chamfers except as noted.
  - I.F. indicates Inside Face  
O.F. indicates Outside Face  
B.F. indicates Back Face
  - Quantities indicated with a double asterisk (\*\*) are estimated quantities to be determined by the Engineer in the field. Adjustment to the quantities shall not be cause for additional compensation; however the Contractor will be paid for the quantity of work performed at the unit price bid for the work.
  - Existing reinforcement bars to remain shall be cleaned and incorporated into new construction with a minimum projection length as shown. Bars with insufficient projection or with 10% or more section loss shall be removed flush to the concrete removal line and replaced in kind by drilling and grouting new bars of equivalent size, the cost of which is included with Concrete Removal.
  - Reinforcement bars shall be epoxy grouted in accordance with Section 584 of the Standard Specifications. The grout and method of application shall be approved by the Department. Cost included with Reinforcement Bars, Epoxy Coated.

**BILL OF MATERIAL**

Item	Unit	Total
Porous Granular Embankment, Special	Cu Yd	90
Concrete Removal	Cu Yd	18.1
Structure Excavation	Cu Yd	90
Concrete Structures	Cu Yd	21.6
Reinforcement Bars, Epoxy Coated	lbs	3,080
Bar Splicers	Each	69
Concrete Sealer	Sq Ft	167
Structural Repair of Concrete, Depth Equal to or Less Than 5" **	Sq Ft	341
Epoxy Crack Injection**	Ft	46

**LEGEND**

Concrete Removal

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. ROUTE 57 (INTERSTATE 57)  
111TH STREET BRIDGE DECK REPLACEMENT  
111TH STREET OVER I-57  
SN 016-0989 STA. 556+99.89  
COOK COUNTY

WEST ABUTMENT  
DETAILS AND BILL OF MATERIAL

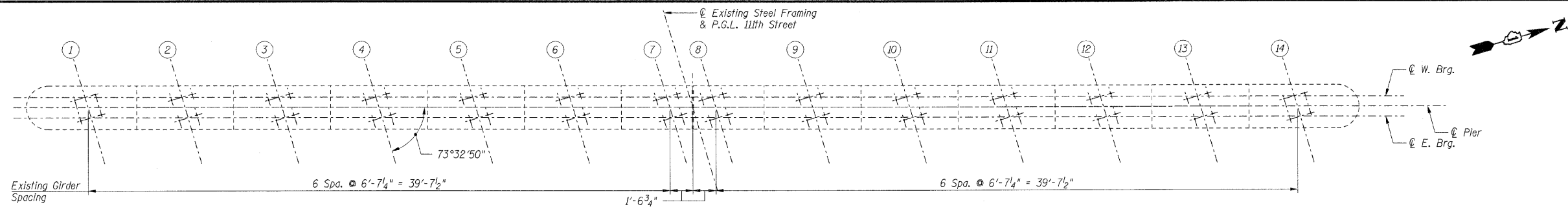
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DRAWN BY: TMH  
CHECKED BY: JLR

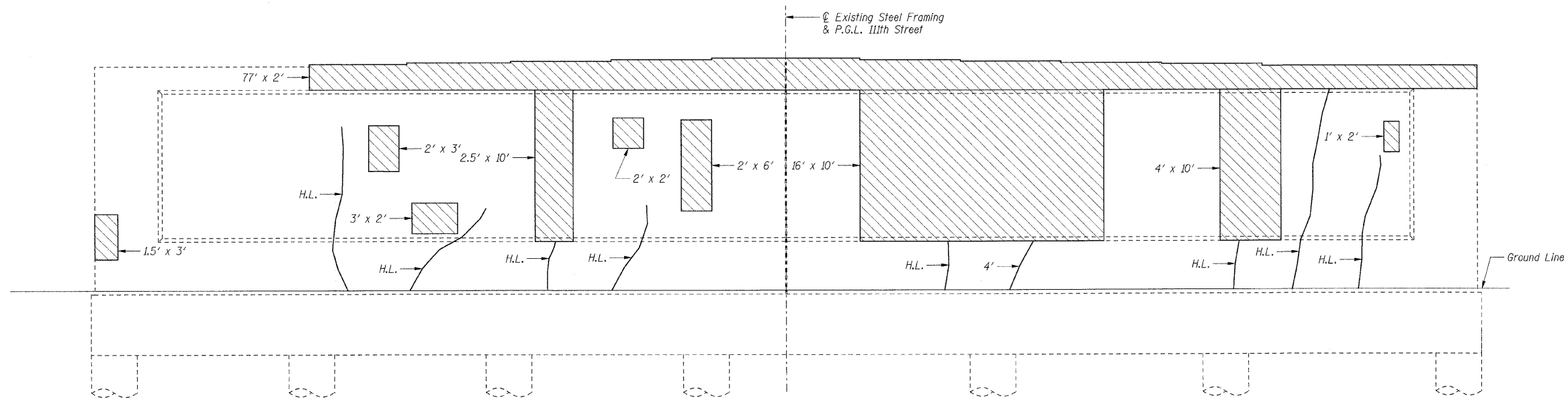
**TENG**  
TENG & ASSOCIATES, INC.  
ENGINEERS/ARCHITECTS/PLANNERS  
205 N. MICHIGAN AVE., CHICAGO, IL 60601  
TELEPHONE: 312.611.0000

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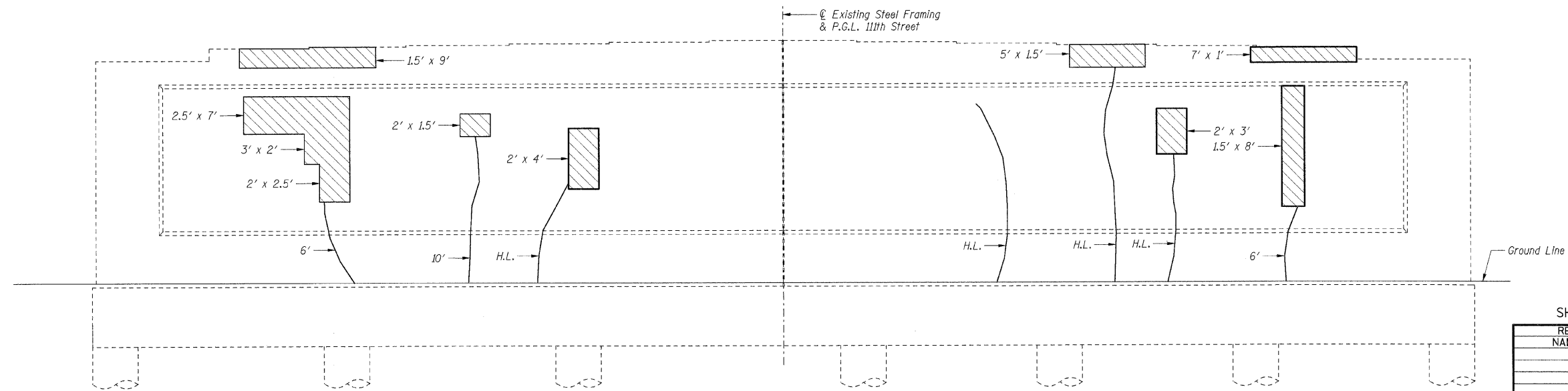
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.1B-R	COOK	101	082
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62532				



**TOP PLAN**



**ELEVATION**  
(Looking East)



**ELEVATION**  
(Looking West)

- Notes:**
- Quantities indicated with a double asterisk (\*\*) are estimated quantities to be determined by the Engineer in the field. Adjustment to the quantities shall not be cause for additional compensation; however the Contractor will be paid for the quantity of work performed at the unit price bid for the work.
  - Crack widths are  $\frac{1}{16}$ " unless otherwise noted.
  - Girders shall be supported during concrete repairs in accordance with the Special Provision for Temporary Shoring and Cribbing.
  - Concrete Sealer shall be applied to the bearing seats.

- LEGEND**
- Structural Repair of Concrete  
Depth Equal to or Less Than 5"
  - Epoxy Crack Injection
  - Hairline Crack - Not to be Sealed

BILL OF MATERIAL		
Item	Unit	Total
Concrete Sealer	Sq Ft	271
Structural Repair of Concrete, Depth Equal to or Less Than 5" **	Sq Ft	582
Epoxy Crack Injection**	Ft	29

SHT. S-018

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. ROUTE 57 (INTERSTATE 57)  
 111TH STREET BRIDGE DECK REPLACEMENT  
 111th STREET OVER I-57  
 SN 016-0989 STA. 556+99.89  
 COOK COUNTY

PIER 1 REPAIRS

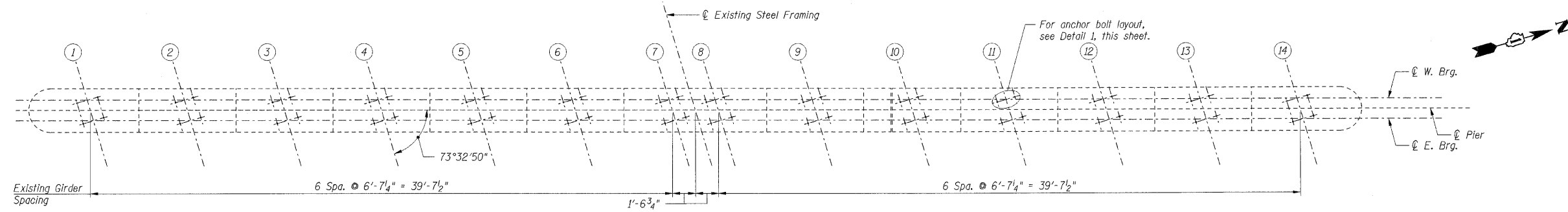
DATE: 01/16/09

DRAWN BY: TMH  
 CHECKED BY: JLR

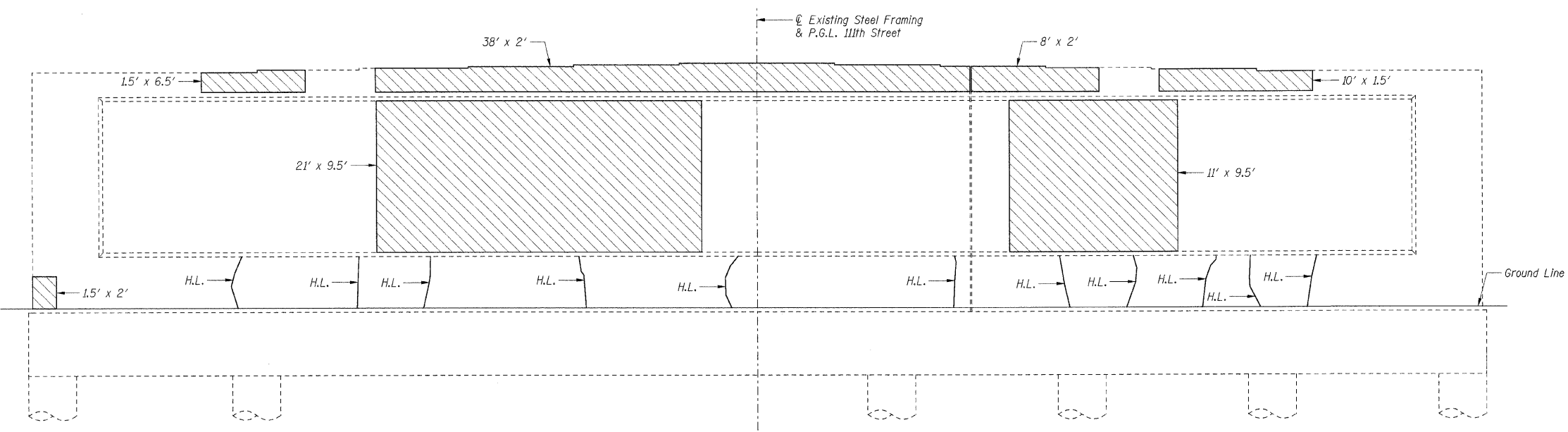
**TENG**  
 TENG & ASSOCIATES, INC.  
 ENGINEERS/ARCHITECTS/PLANNERS  
 205 N. MICHIGAN AVE., CHICAGO, IL 60601  
 TELEPHONE 312.616.0000

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 Plot: Table; N/A

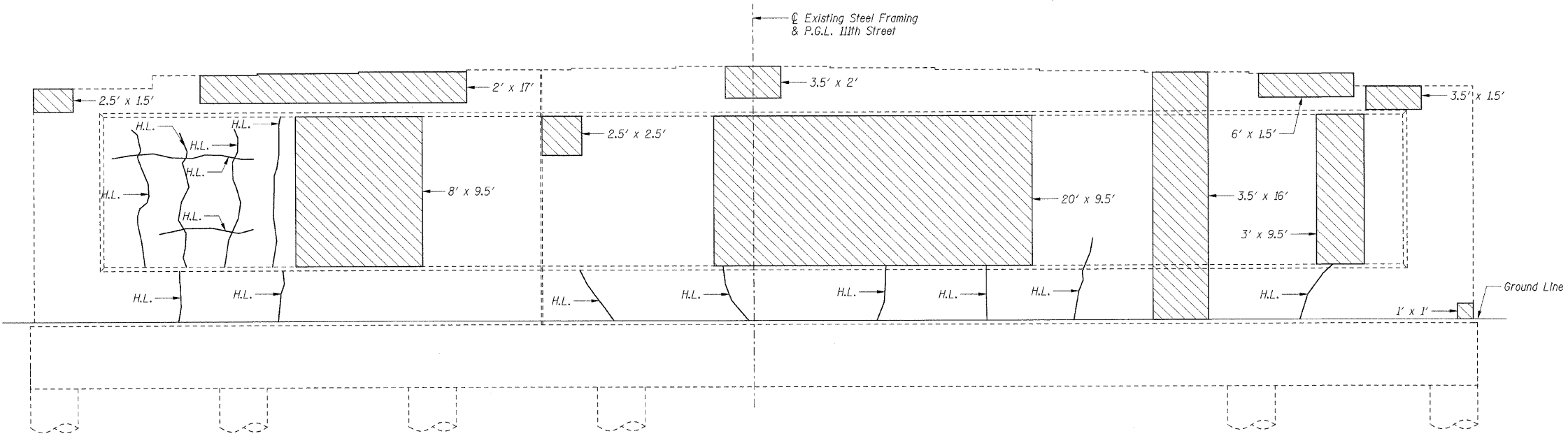
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.1B-R	COOK	101	083
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62532				



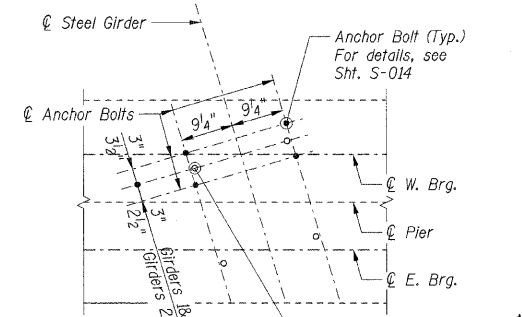
**TOP PLAN**



**ELEVATION**  
(Looking West)



**ELEVATION**  
(Looking East)



**DETAIL 1**

Burn existing anchor bolts flush with existing concrete surface. Grind existing anchor bolt smooth and seal with epoxy. Cost is included with Jack and Remove Existing Bearings.

- Notes:**
- Quantities indicated with a double asterisk (\*\*) are estimated quantities to be determined by the Engineer in the field. Adjustment to the quantities shall not be cause for additional compensation; however the Contractor will be paid for the quantity of work performed at the unit price bid for the work.
  - For anchor bolt installation details, see Sht. S-014.
  - Crack widths are  $\frac{1}{8}'' \pm \frac{1}{16}''$  unless otherwise noted.
  - Girders bearing on the east side of the pier shall be supported during concrete repairs in accordance with the Special Provision for Temporary Shoring and Cribbing.
  - Girders bearing on the west side of the pier shall be supported during concrete repairs. Cost shall be included with Jack and Remove Existing Bearings.
  - Concrete Sealer shall be applied to the bearing seats.

- LEGEND**
- Structural Repair of Concrete, Depth Equal to or Less Than 5"
  - H.L. Hairline Crack - Not to be Sealed

BILL OF MATERIAL		
Item	Unit	Total
Concrete Sealer	Sq Ft	271
Structural Repair of Concrete, Depth Equal to or Less Than 5" **	Sq Ft	950

REVISIONS	
NAME	DATE

SHT. S-019

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. ROUTE 57 (INTERSTATE 57)  
111TH STREET BRIDGE DECK REPLACEMENT  
111TH STREET OVER I-57  
SN 016-0989 STA. 556+99.89  
COOK COUNTY

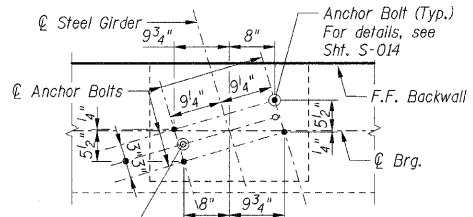
PIER 2 REPAIRS

DATE: 01/16/09

DRAWN BY: TMH  
CHECKED BY: JLR

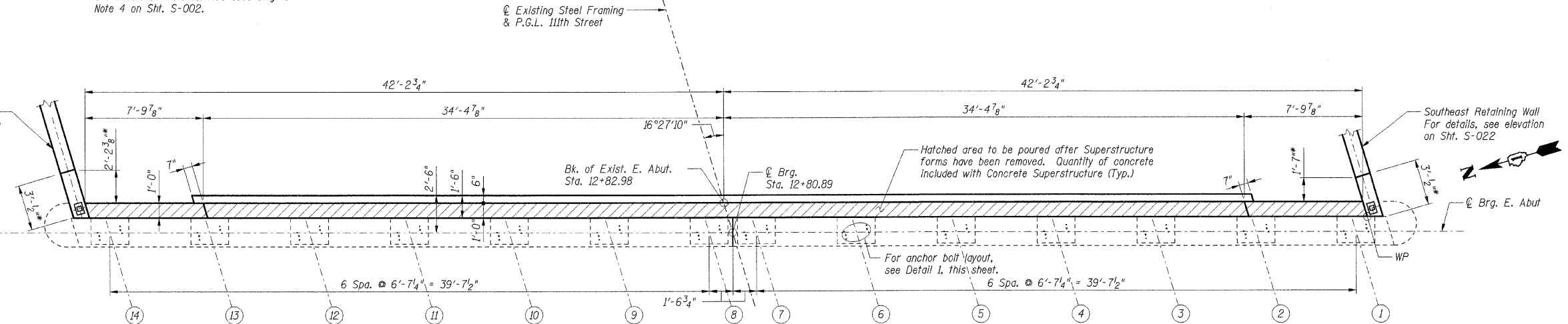
**TENG**  
TENG & ASSOCIATES, INC.  
ENGINEERS/ARCHITECTS/PLANNERS  
205 N. MICHIGAN AVE., CHICAGO, IL 60601  
TELEPHONE: 312.618.0000

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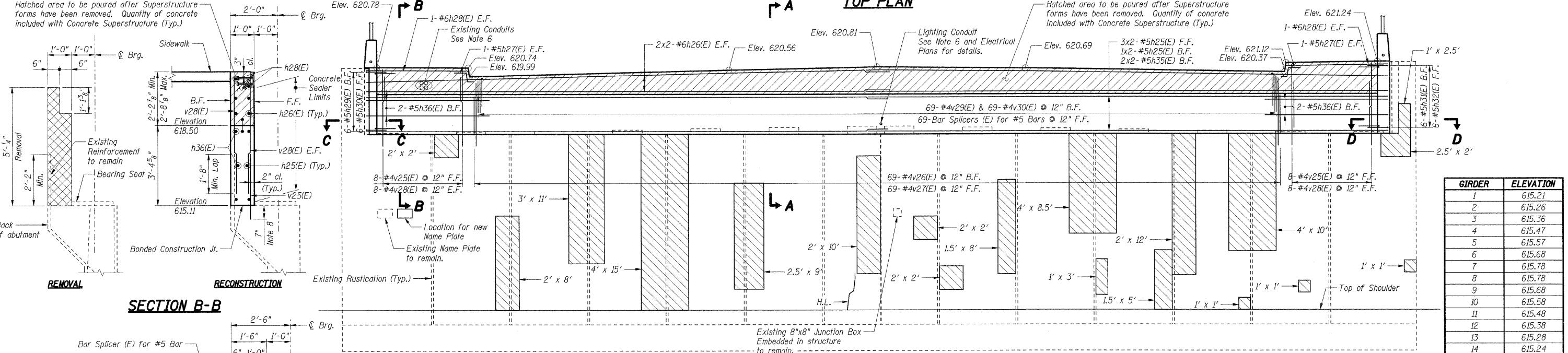


\* Dimensions related to existing conditions have been developed from record plan data and should be field verified according to Note 4 on Sht. S-002.

**DETAIL 1**



**TOP PLAN**

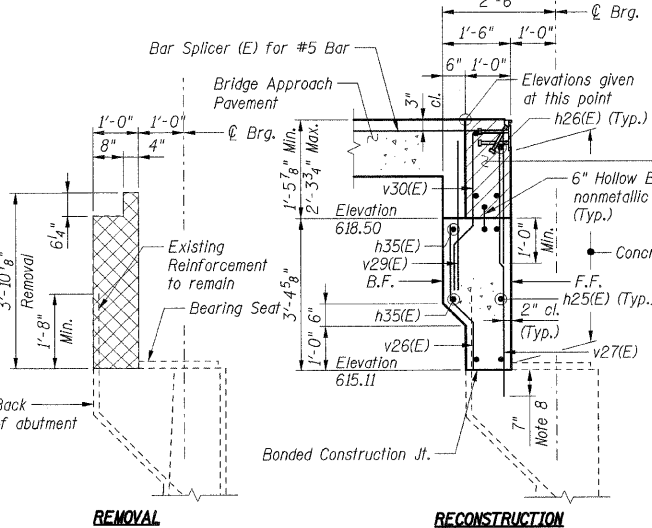


**SECTION B-B**

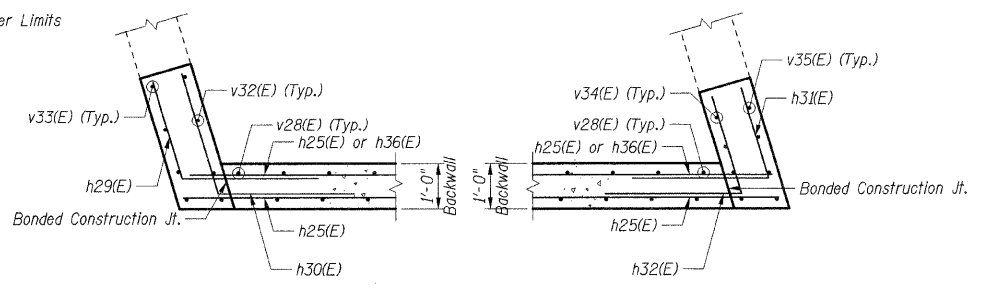
GIRDER	ELEVATION
1	615.21
2	615.26
3	615.36
4	615.47
5	615.57
6	615.68
7	615.78
8	615.78
9	615.68
10	615.58
11	615.48
12	615.38
13	615.28
14	615.24

**BEARING SEAT ELEVATIONS**

(Elevations based off record plans. For information only.)



**SECTION A-A**



**SECTION C-C**

**SECTION D-D**

**ELEVATION**

(Looking East)

**Notes:**

1. Work this sheet with Shts. S-021 & S-022.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. Bars indicated thus 30 x 2-#5 etc. indicates 30 lines of bars with 2 lengths per line.
4. All edges shall have standard 3/4" chamfers except as noted.
5. E.F. indicates Each Face  
F.F. indicates Front Face  
B.F. indicates Back Face
6. Cost of all sleeves, grout and associated work required for extending conduit through backwall shall be included with Concrete Structures.
7. Existing reinforcement bars to remain shall be cleaned and incorporated into new construction with a minimum projection length as shown. Bars with insufficient projection or with 10% or more section loss shall be removed flush to the concrete removal line and replaced in kind by drilling and grouting new bars of equivalent size, the cost of which is included with Concrete Removal.
8. Reinforcement bars shall be epoxy grouted according to Section 584 of the Standard Specifications. The grout and method of application shall be approved by the Department. Cost included with Reinforcement Bars, Epoxy Coated.
9. For bar splicer details, see Sht. S-024.
10. Crack widths are 1/8" ± 1/16" unless otherwise noted.
11. Girders shall be supported during concrete repairs. Cost shall be included with Jack and Remove Existing Bearings.

Bar Size	Min. Lap
#4	1'-11"
#5	2'-5"
#6	2'-10"

**LEGEND**

- Concrete Removal
- Structural Repair of Concrete, Depth Equal to or Less Than 5"
- H.L. Hairline Crack - Not to be Sealed

**SHT. S-020**

REVISIONS	NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. ROUTE 57 (INTERSTATE 57)  
 111TH STREET BRIDGE DECK REPLACEMENT  
 111th STREET OVER I-57  
 SN 016-0989 STA. 556+99.89  
 COOK COUNTY

EAST ABUTMENT

DATE: 01/16/09

DRAWN BY: TMH  
 CHECKED BY: JLR

**TENG**  
 TENG & ASSOCIATES, INC.  
 ENGINEERS/ARCHITECTS/PLANNERS  
 205 N. MICHIGAN AVE., CHICAGO, IL 60601  
 TELEPHONE 312.618.0000



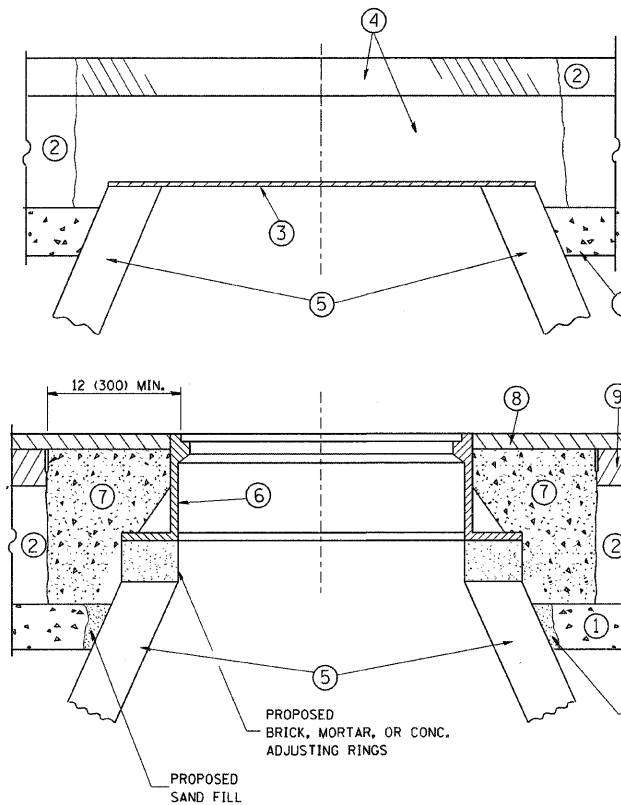








F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			101	089
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		



**CONSTRUCTION PROCEDURES**

**STAGE 1 (BEFORE PAVEMENT MILLING)**

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

**STAGE 2 (AFTER PAVEMENT MILLING)**

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS SI CONCRETE, OR HMA SURFACE COURSE OR HMA BINDER COURSE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS.

**LEGEND**

- ① SUB-BASE GRANULAR MATERIAL
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS SI CONCRETE, HMA SURFACE COURSE OR HMA BINDER COURSE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE

**NOTES:**

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

**LOCATION OF STRUCTURES:**

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

**BASIS OF PAYMENT:** THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR 'FRAMES AND LIDS TO BE ADJUSTED, SPECIAL'

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

**DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING**

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

REVISIONS	
NAME	DATE
R. SHAH	10/25/94
R. SHAH	01/30/95
R. SHAH	03/10/95
A. ABBAS	03/21/97
R. WIEDEMAN	05/14/04
R. BORO	01/01/07

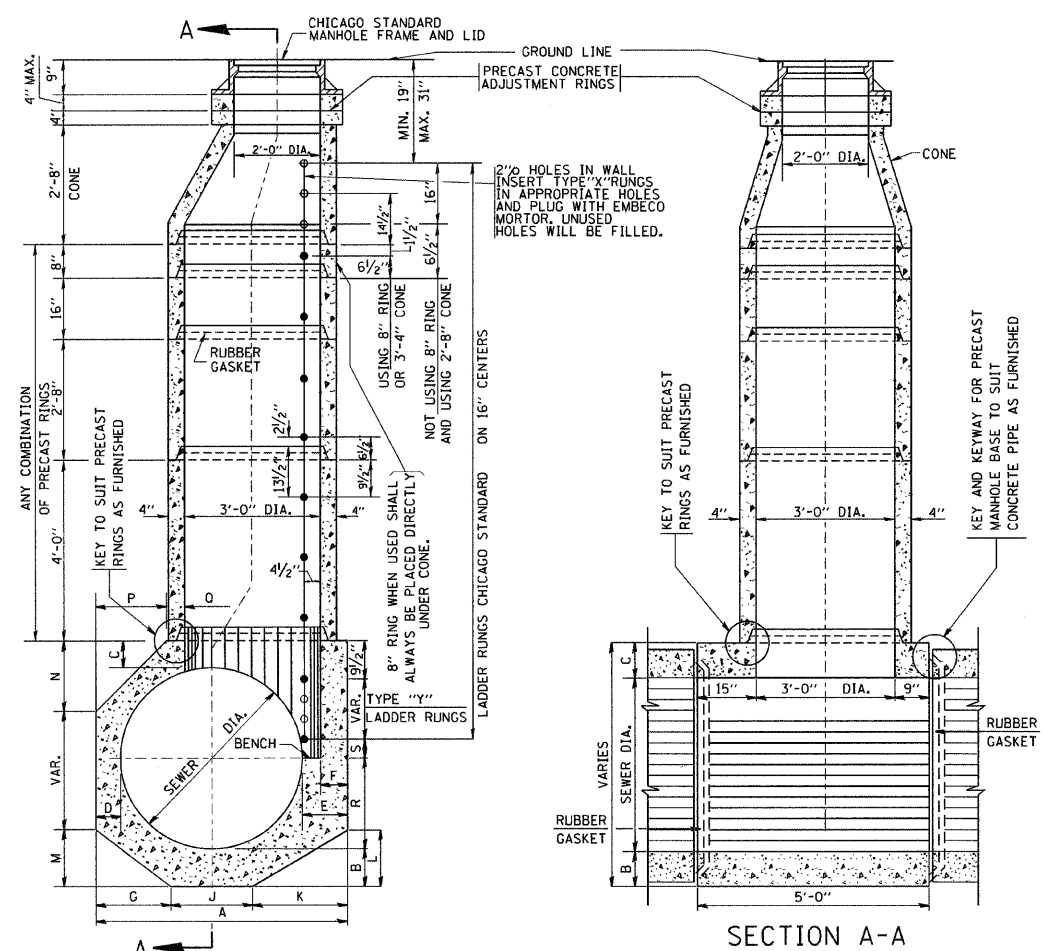
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**DETAILS FOR  
 FRAMES AND LIDS ADJUSTMENT  
 WITH MILLING**

SCALE: VERT. NONE  
 HORIZ.

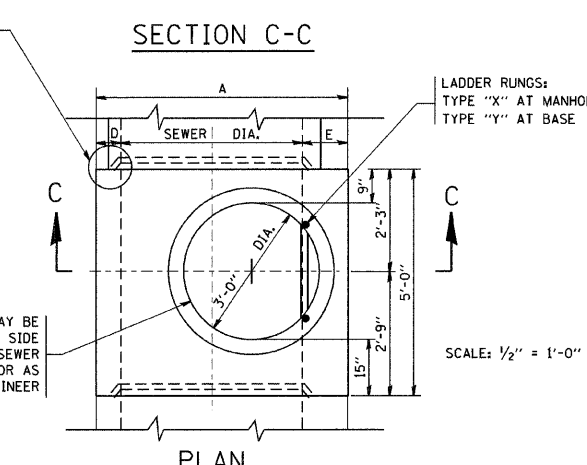
DRAWN BY  
 CHECKED BY

BD600-03 (BD-8)

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			101	090
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



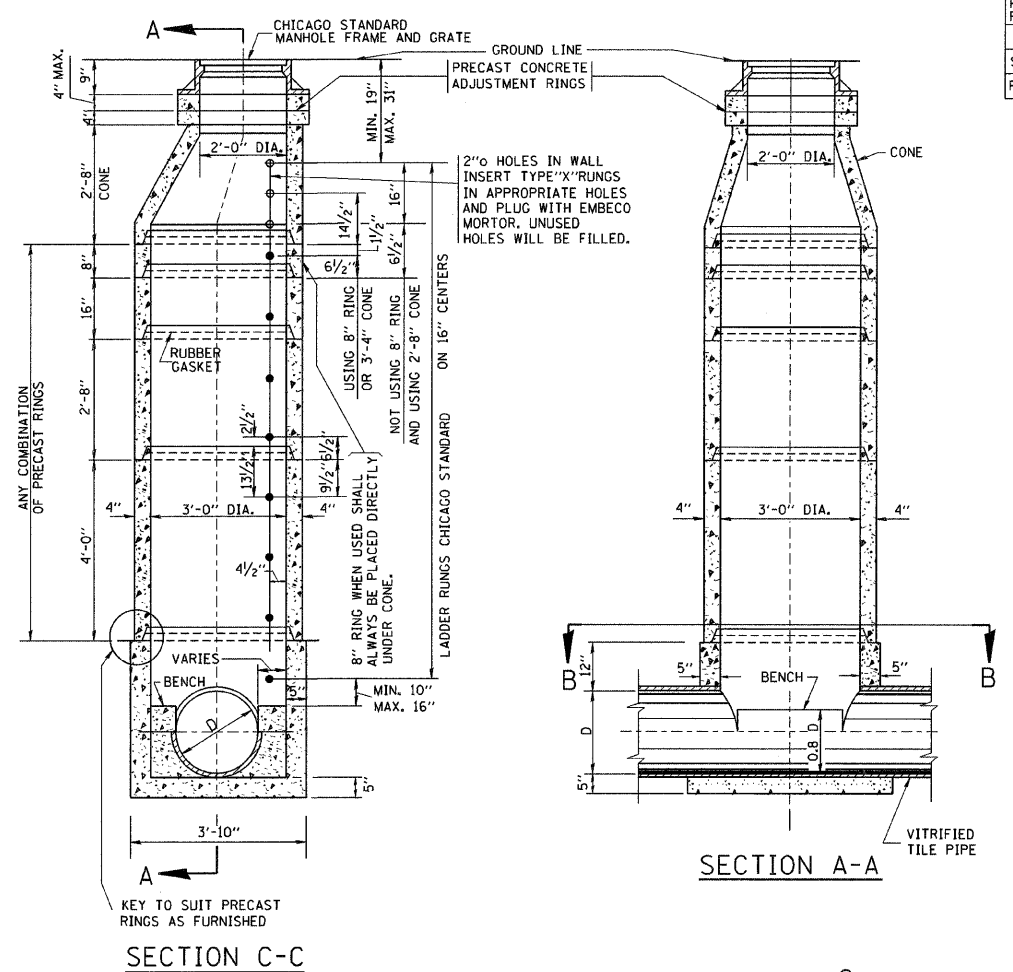
**TYPE "A" MANHOLE**  
FOR SEWERS  
24" TO 120" DIAMETER  
PRECAST BASES AND RINGS



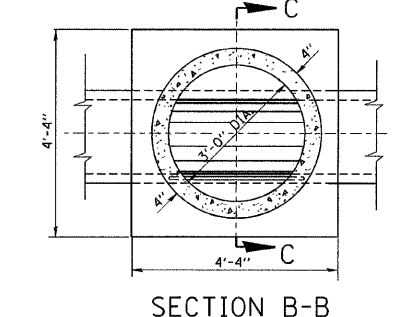
PLAN

SEWER DIA.	PART OF ITEM	DIMENSIONS OF PRECAST MANHOLE BASE														NO. "Y" RINGS		
		A	B	C	D	E	F	G	J	K	L	M	N	P	O		R	
120"	----	12'-4 1/2"	12"	12"	12"	16 1/2"	12"	4'-0"	4'-4 1/2"	2'-7 1/2"	2'-5"	3'-7"	3'-7"	4'-8 1/2"	2'-0"	2 1/2"	7	
108"	----	11'-4 1/2"	12"	12"	12"	16 1/2"	12"	3'-8"	3'-8"	4'-0 1/2"	2'-5"	2'-2"	3'-4"	3'-4"	4'-0 1/2"	2'-0"	6 1/2"	6
102"	----	10'-10 1/2"	12"	12"	12"	16 1/2"	12"	3'-6"	3'-6"	3'-10 1/2"	2'-4"	2'-1"	3'-2"	3'-2"	3'-8 1/2"	2'-0"	16 1/2"	5
96"	10-A	10'-2 1/2"	11"	11"	11"	15 1/2"	11"	3'-3"	3'-3"	3'-8 1/2"	2'-3"	2'-3"	2'-11"	2'-11"	3'-4 1/2"	2'-0"	9 1/2"	5
90"	10-B	9'-8 1/2"	11"	11"	11"	15 1/2"	11"	3'-1"	3'-1"	3'-6 1/2"	2'-1 1/2"	2'-2"	2'-10"	2'-10"	2'-11 1/2"	2'-0"	3 1/2"	5
84"	10-C	9'-0 1/2"	10"	10"	10"	14 1/2"	10"	2'-11"	2'-11"	3'-2 1/2"	2'-3"	2'-1"	2'-7"	2'-7"	2'-7 1/2"	2'-0"	12 1/2"	4
78"	10-D	8'-6 1/2"	10"	10"	10"	14 1/2"	10"	2'-9"	2'-9"	3'-0 1/2"	2'-2"	2'-2"	2'-6"	2'-6"	2'-2 1/2"	2'-0"	6 1/2"	4
72"	10	7'-10 1/2"	9"	9"	9"	13 1/2"	9"	2'-6"	2'-6"	2'-10 1/2"	2'-1"	18"	2'-3"	2'-3"	2'-2 1/2"	2'-0"	15 1/2"	3
66"	11	7'-4 1/2"	9"	9"	9"	13 1/2"	9"	2'-4"	2'-4"	2'-8 1/2"	19 1/2"	17"	2'-1"	2'-1"	18 1/2"	2'-0"	9 1/2"	3
60"	12	6'-8 1/2"	8"	8"	8"	12 1/2"	8"	2'-1 1/2"	2'-1"	2'-6"	18"	15"	23"	23"	13 1/2"	2'-0"	2 1/2"	3
54"	13	6'-2 1/2"	8"	8"	8"	12 1/2"	8"	2-3 3/4"	2-3"	2'-4"	17"	14"	21"	21"	9 1/2"	2'-0"	12 1/2"	2
48"	14	5'-6 1/2"	7"	7"	7"	11 1/2"	7"	2-2 1/2"	2-1"	2-1"	15"	12 1/2"	18 1/2"	18 1/2"	5"	2'-0"	5 1/2"	2
42"	15	5'-0 1/2"	7"	7"	7"	11 1/2"	7"	18 1/2"	19"	23"	14"	11"	---	---	17 1/2"	2-1"	2 1/2"	2
36"	16	4'-4 1/2"	6"	6"	6"	10 1/2"	6"	16"	16"	20 1/2"	12 1/2"	9 1/2"	---	---	10 1/2"	18"	14 1/2"	1
30"	17	4'-0"	6"	6"	6"	12"	6"	14"	14"	20"	12"	8 1/2"	---	---	6"	15"	11 1/2"	1
24"	18	4'-0"	6"	6"	6"	12"	6"	16"	16"	16"	9 1/2"	9 1/2"	---	---	6"	12"	8 1/2"	1

FOR STATE CONTRACT  
ALL DIMENSIONS SHOULD  
BE PREPARED IN METRIC  
UNITS. SOFT CONVERSION  
METHOD SHOULD BE USED.



**TYPE "A" MANHOLE**  
FOR SEWERS  
21" DIAMETER AND SMALLER  
PRECAST BASES AND RINGS



SECTION B-B

SCALE: 1/2" = 1'-0"

REVISIONS	
NAME	DATE
	6-18-82
	9-22-90

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**CITY OF CHICAGO  
DRAINAGE  
DETAILS**

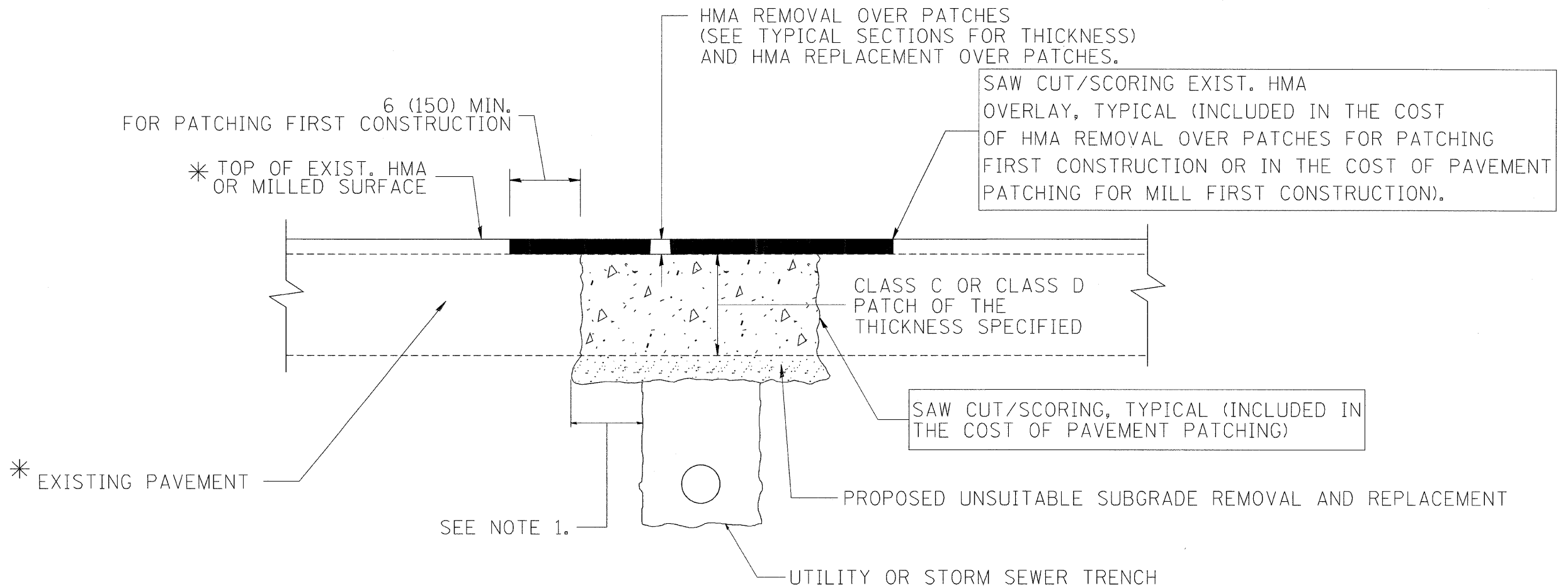
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HORIZ.

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CHECKED BY  
BD600-12 (BD-9)

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USER NAME = bboard



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			101	091
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT



\* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

REVISIONS	
NAME	DATE
R. SHAH	01/14/95
R. SHAH	03/23/95
R. SHAH	04/24/95
A. HOUSEH	03/15/96
A. ABBAS	03/21/97
A. ABBAS	01/20/98
ART ABBAS	04/27/98
R. BORO	01/01/07
R. BORO	09/04/07
K. ENG	10/27/08

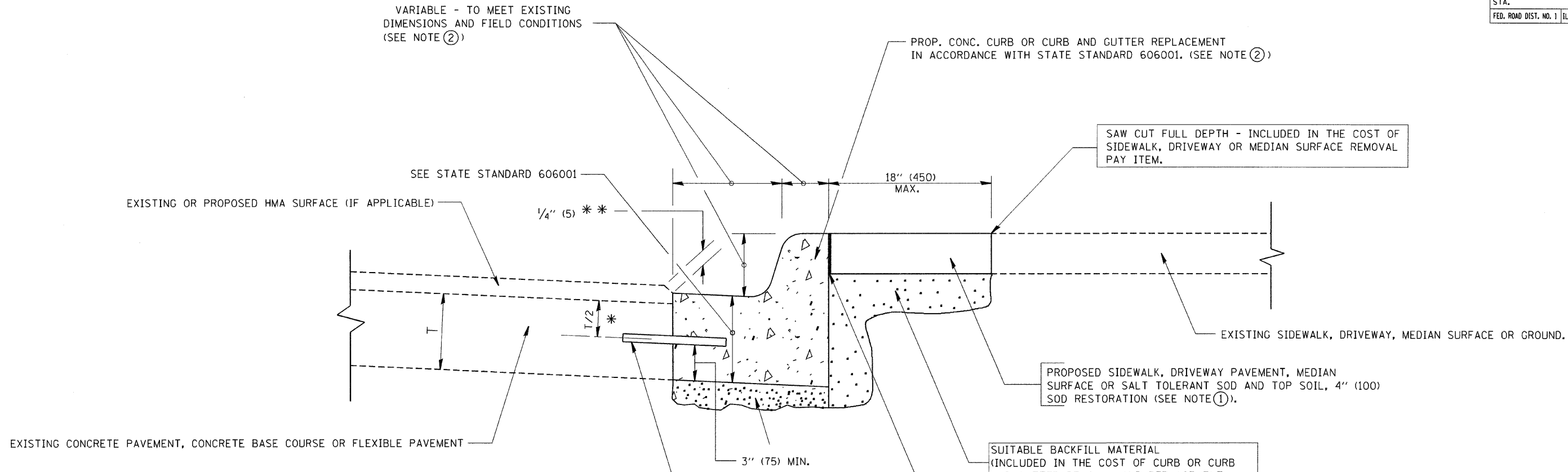
ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT

SCALE: VERT. NONE  
HORIZ.

DRAWN BY  
CHECKED BY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			101	092
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



- \* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
- \* \* IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

SALT TOLERANT SOD AND TOP SOIL, 4" (100) RESTORATION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

- ② CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.
- ③ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.
- ④ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
- ⑤ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.
- ⑥ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.
- ⑦ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

**BASIS OF PAYMENT:**  
THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

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

REVISIONS	
NAME	DATE
A. HOUSEH	03/11/94
R. SHAH	02/24/95
R. SHAH	03/02/95
R. SHAH	08/19/96
R. SHAH	09/12/96
R. SHAH	09/19/96
R. SHAH	10/03/96
A. ABBAS	03/21/97
M. GOMEZ	01/22/01
R. BORO	01/01/07

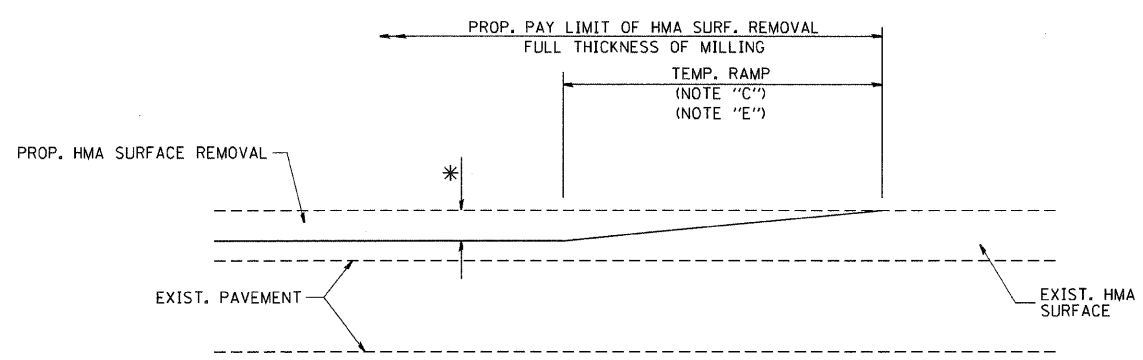
ILLINOIS DEPARTMENT OF TRANSPORTATION  
  
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

SCALE: VERT. NONE  
HORIZ.  
DRAWN BY  
CHECKED BY

# CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

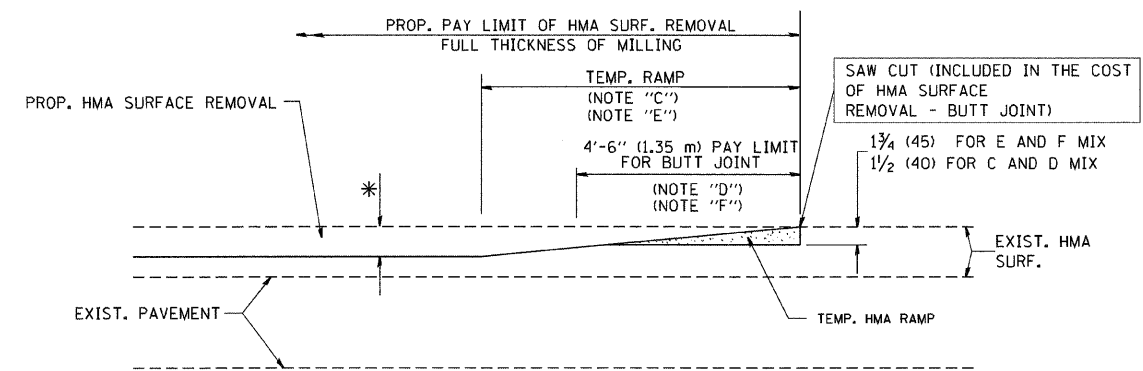
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PLOT SCALE = 50,000 / 1 IN.  
USER NAME = bburdell

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			101	093
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



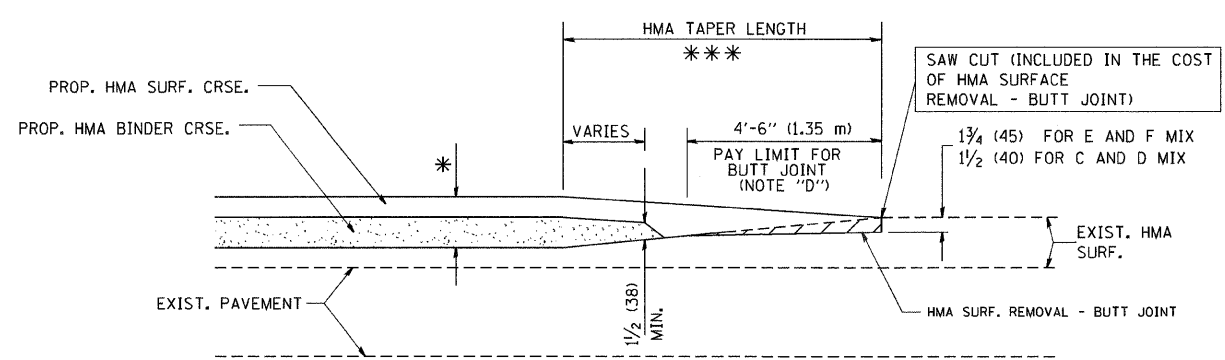
MILLED TEMPORARY RAMP  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

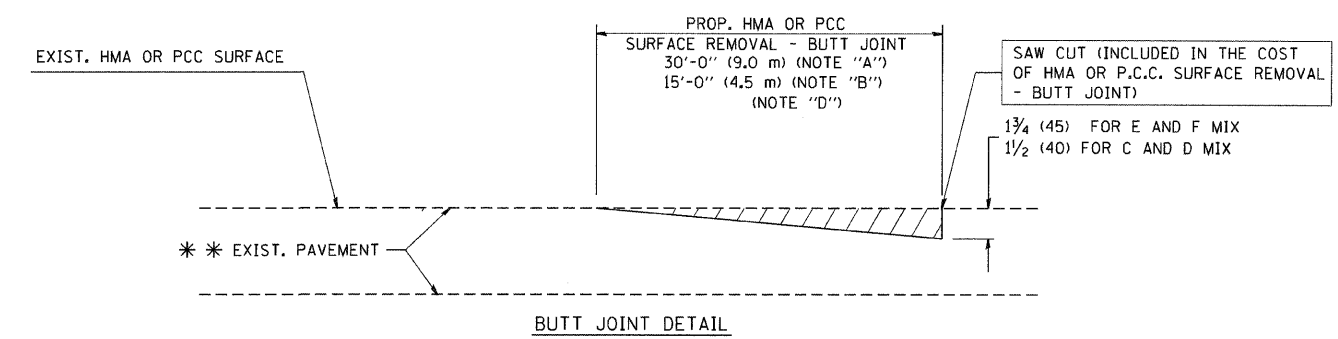


HMA CONSTRUCTED TEMPORARY RAMP  
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

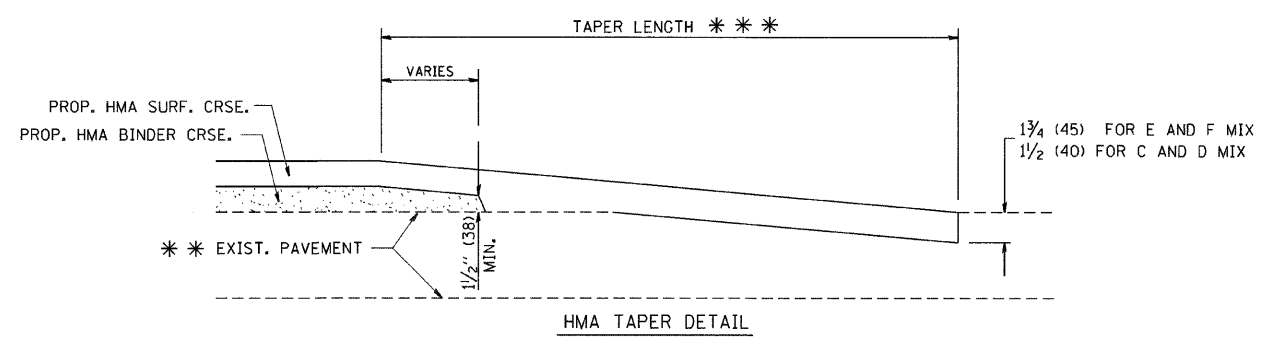
OPTION 2  
TYPICAL TEMPORARY RAMP



BUTT JOINT AND HMA TAPER  
TYPICAL BUTT JOINT AND HMA TAPER  
FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER  
FOR RESURFACING ONLY

\*\*\* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
  - B: MINOR SIDE ROADS.
  - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
  - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
  - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
  - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
  - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- \* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- \*\*\* 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")  
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

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

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

REVISIONS	
NAME	DATE
M. DE YONG	6-13-90
M. DE YONG	7-3-90
M. DE YONG	3-27-92
R. SHAH	09/09/94
R. SHAH	10/25/94
A. ABBAS	03/21/97
M. GOMEZ	04/06/01
R. BORO	01/01/07

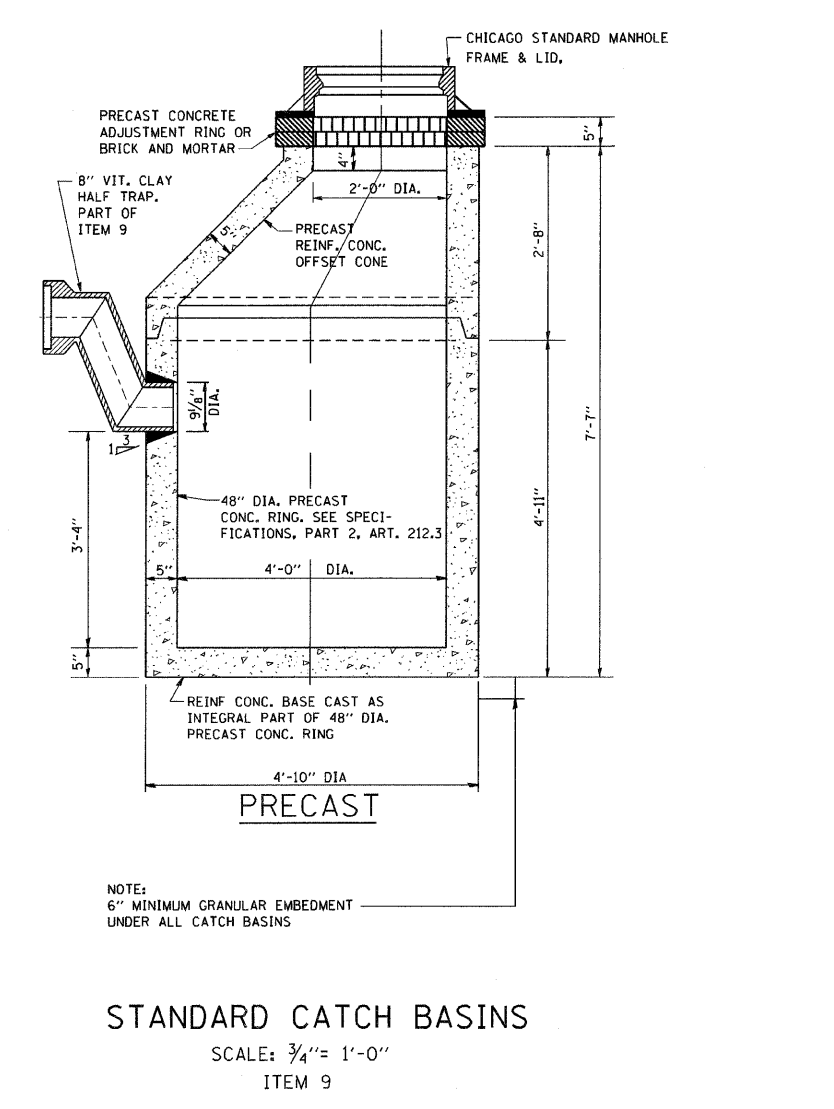
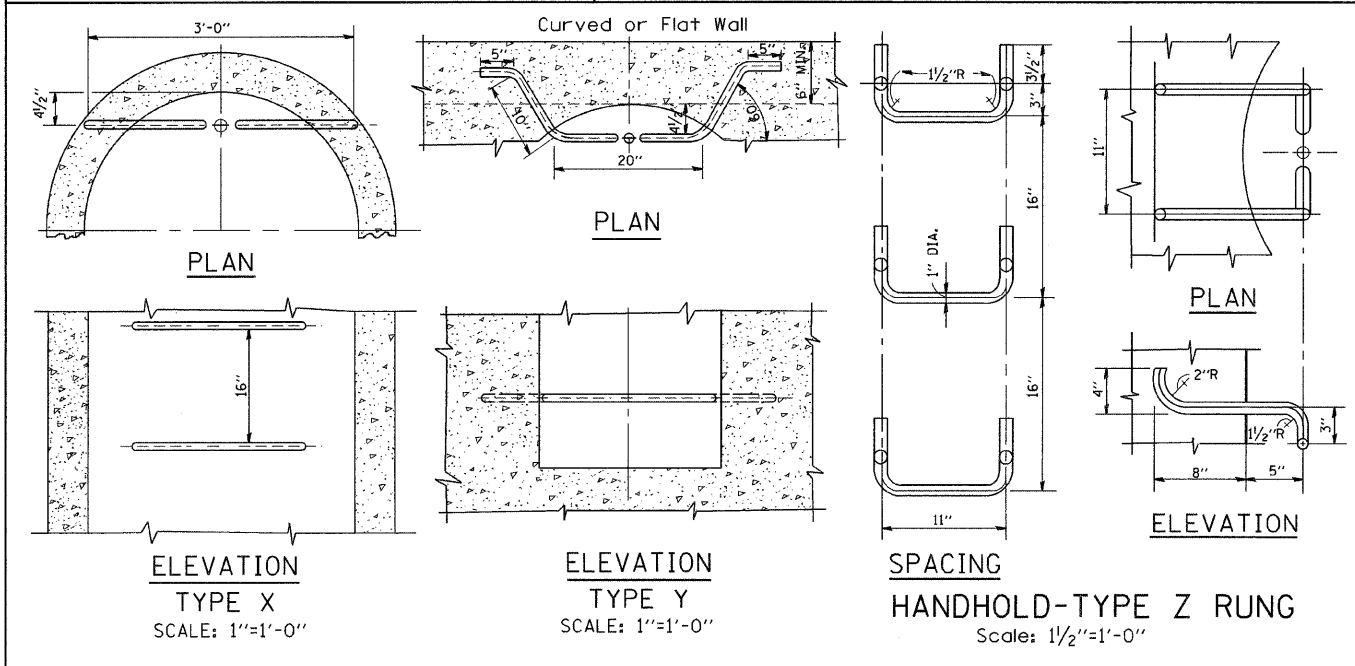
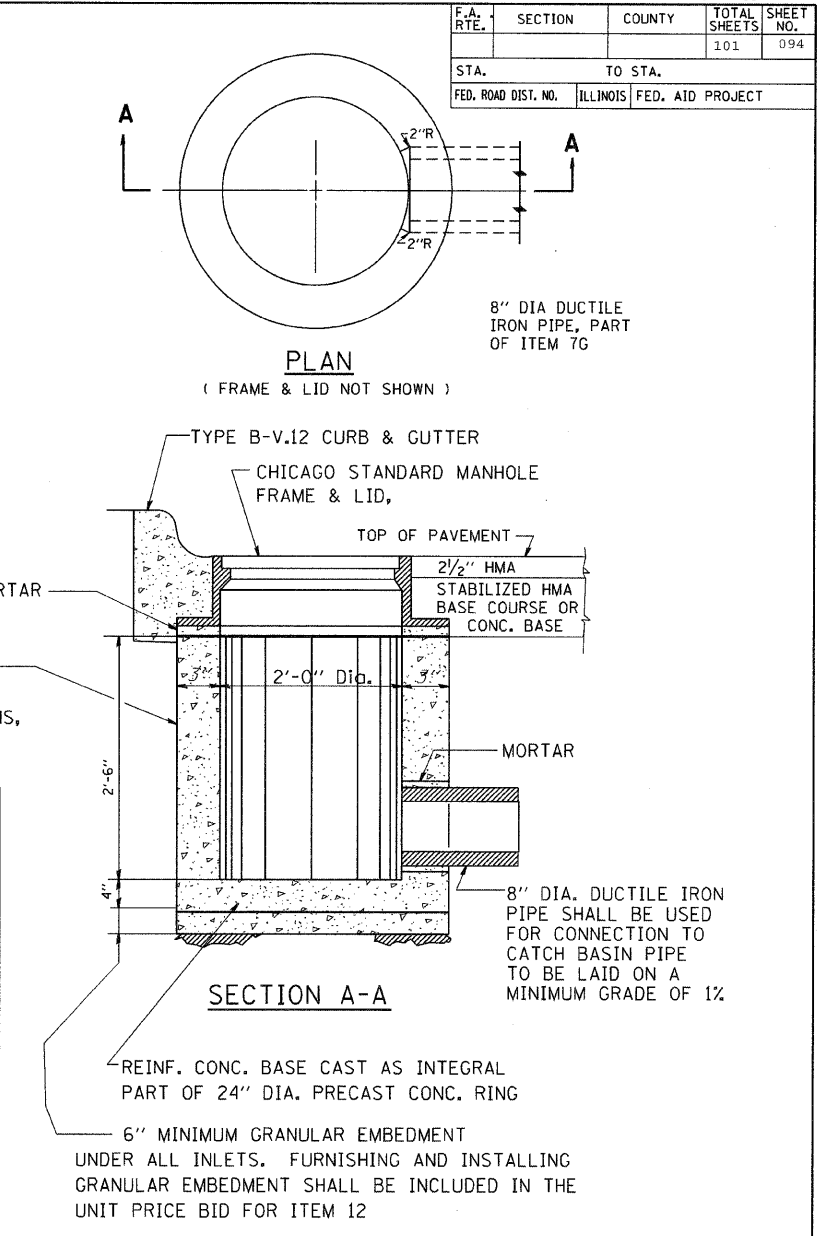
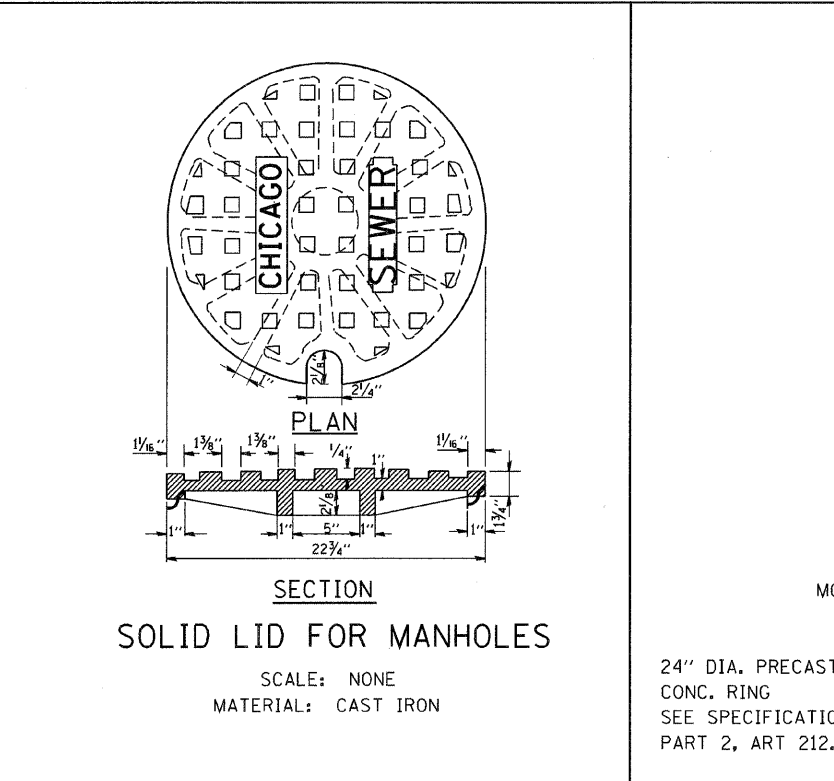
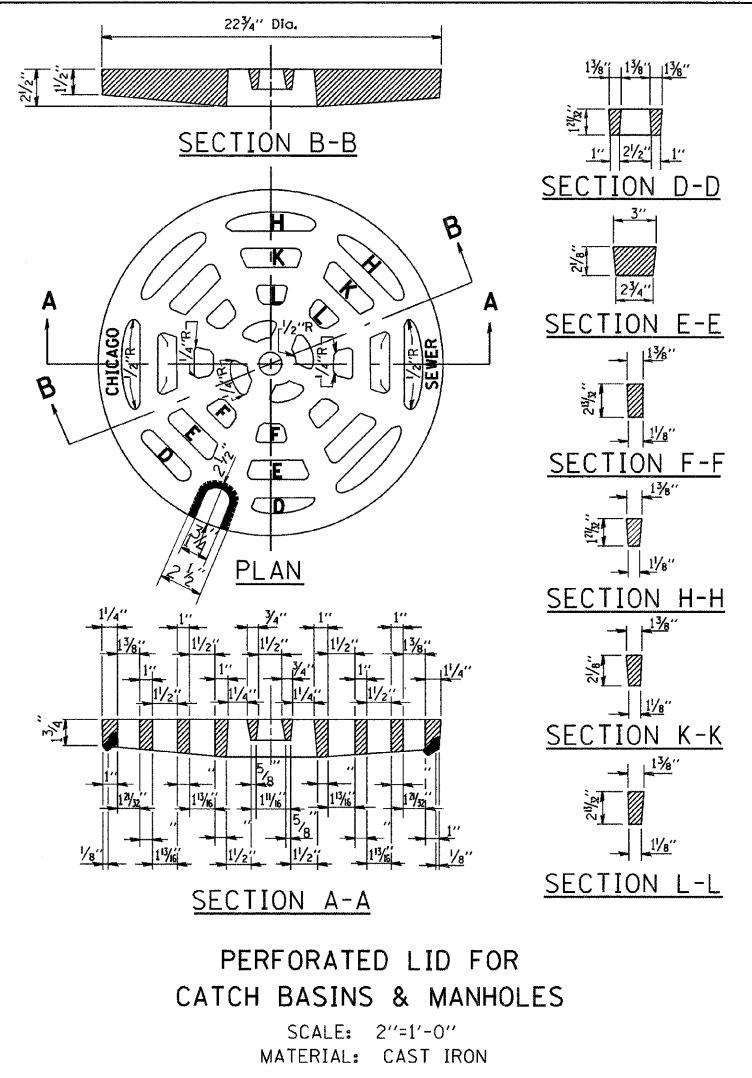
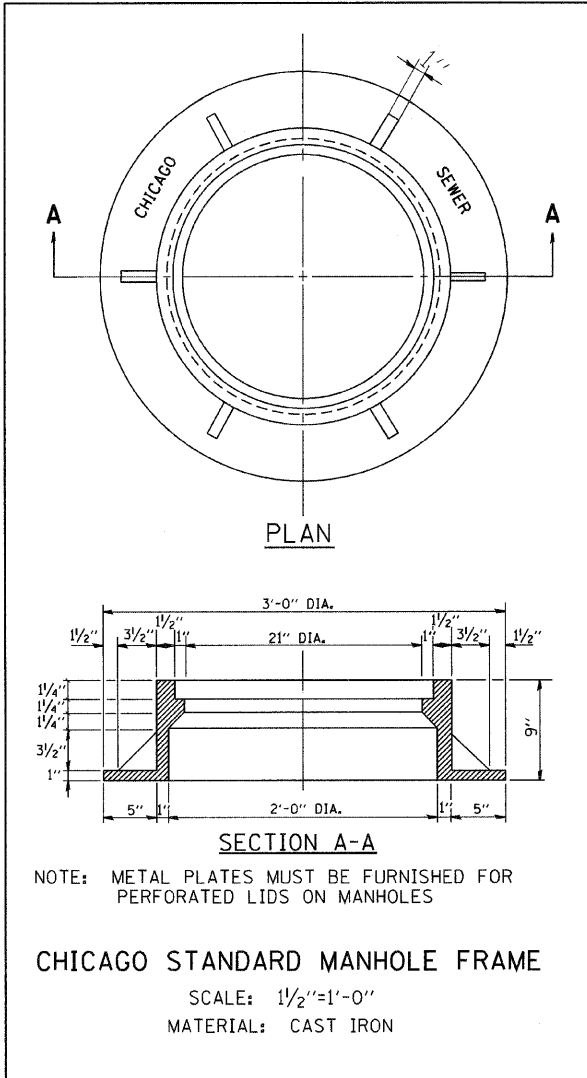
ILLINOIS DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

SCALE: VERT. NONE  
HORIZ.

DRAWN BY  
CHECKED BY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			101	094
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



CITY OF CHICAGO  
DEPARTMENT OF SEWERS  
ENGINEERING DIVISION

ILLINOIS DEPARTMENT OF TRANSPORTATION

CITY OF CHICAGO  
CATCH BASIN, INLET AND  
MANHOLE DETAILS

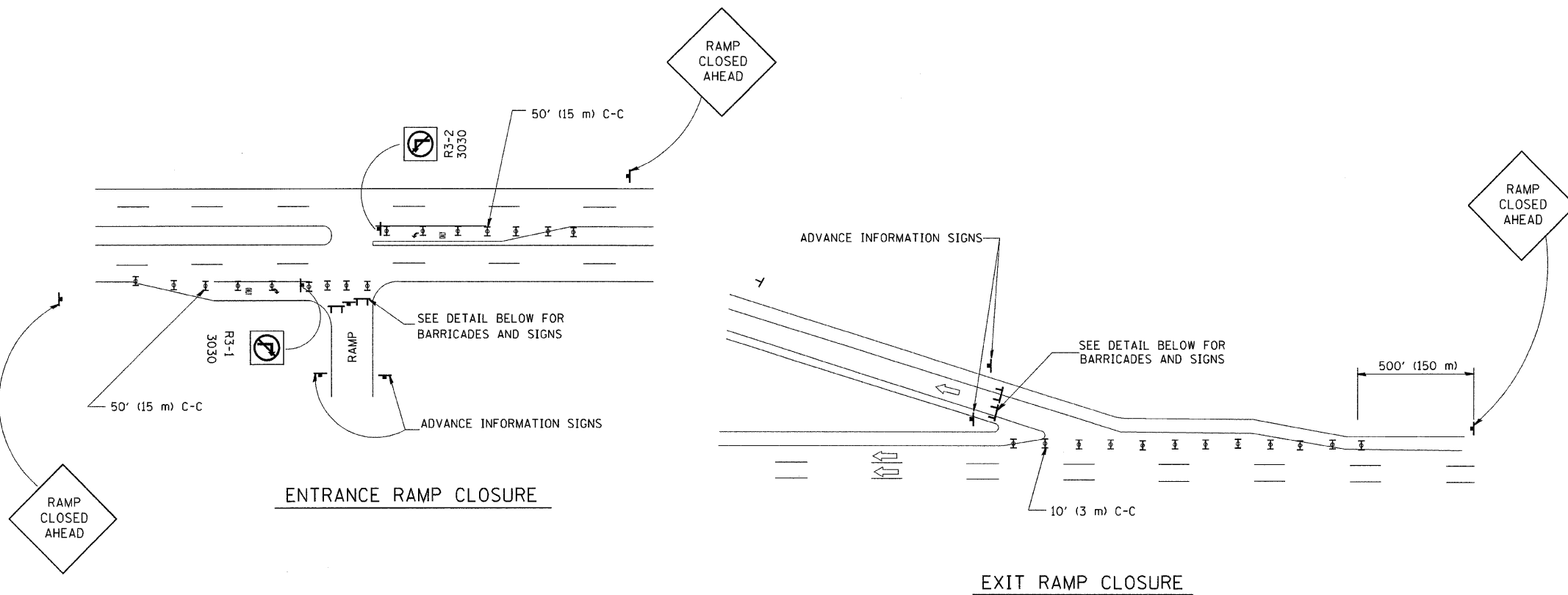
SCALE: VERT. NONE  
HORIZ.

DRAWN BY  
CHECKED BY

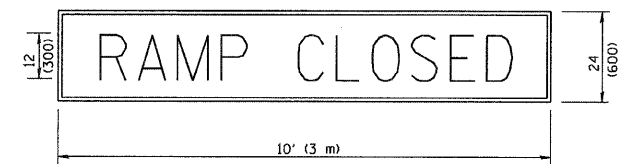
REVISIONS	
NAME	DATE
M. GOMEZ	01/25/01

PLOT DATE = 3/5/2007  
 FILE NAME = K:\projects\447.dgn  
 PLOT SCALE = 50.0000 / IN.  
 USER NAME = board-dl

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			101	095
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

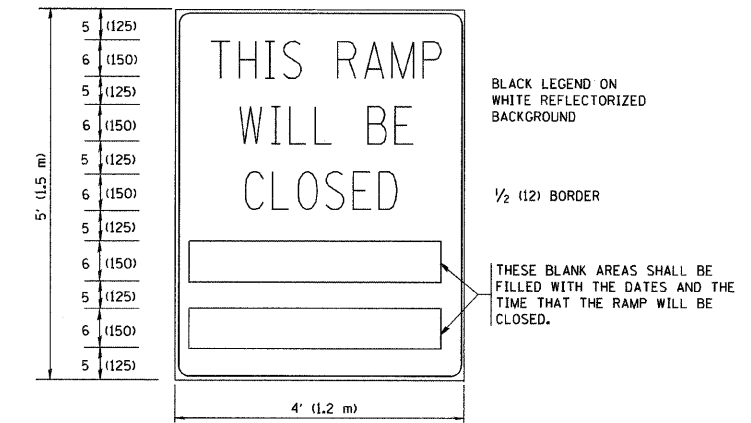


RAMP CLOSURE ADVANCE WARNING SIGN



BLACK LEGEND ON ORANGE REFLECTORIZED BACKGROUND  
 1 (25) BORDER  
 THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR THE CLOSED EXIT RAMPS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



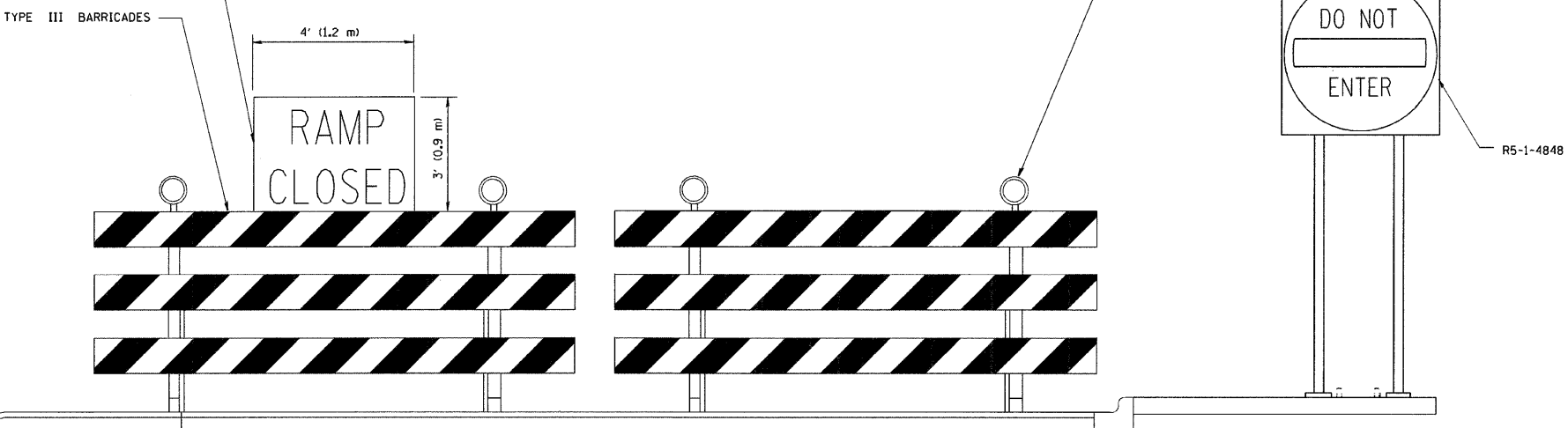
BLACK LEGEND ON WHITE REFLECTORIZED BACKGROUND  
 1/2 (12) BORDER  
 THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.  
 THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

GENERAL NOTES:

1. CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
2. STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
3. A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES.
4. ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED.
5. THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
7. THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED TWENTY-FOUR (24) HOURS IN LENGTH.

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

THE "RAMP CLOSED" SIGN SHALL BE B/W WITH 8 (200) CAPS. IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 IS NOT AVAILABLE, THE SIGNS MAY BE MOUNTED ON NCHRP 350 TEMPORARY SIGN SUPPORTS DIRECTLY IN FRONT OF THE BARRICADE.



DETAIL FOR REQUIRED BARRICADES & SIGNS

SYMBOLS

- ▬ TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- ▬ TYPE III BARRICADE WITH FLASHING LIGHT

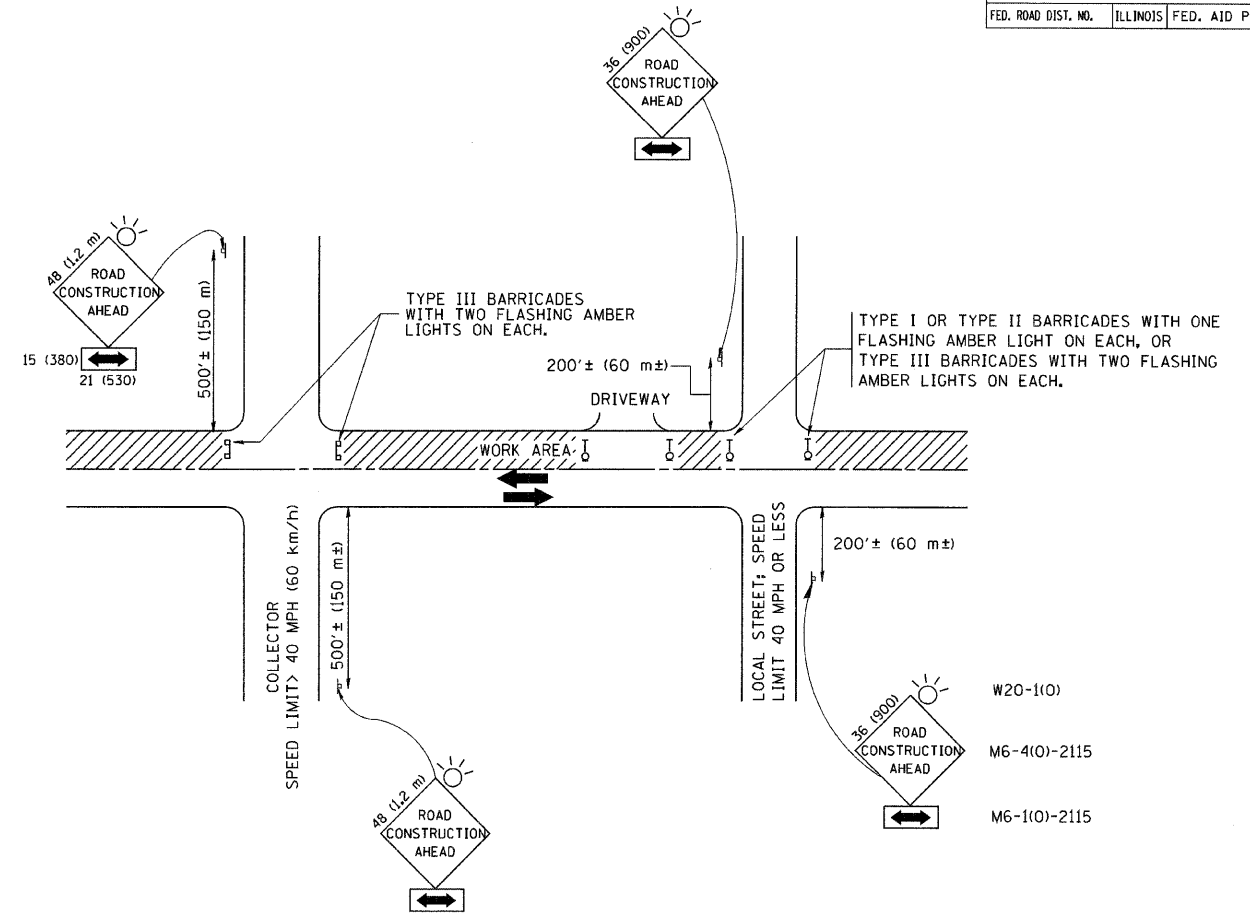
REVISIONS	
NAME	DATE
DWS	2-83
DWS	1/90
DWS	9/94
DWS	12/94
DWS/JAF	12/02
JAF	2/06
SPB	1/07
Revise devices to meet NCHRP 350	4/03

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**FREWAY ENTRANCE AND EXIT RAMP CLOSURE DETAILS**

SCALE: NONE

DRAWN BY  
 CHECKED BY

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			101	096
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

REVISIONS	
NAME	DATE
LHA	6/89
T. RAMMACHER	09/08/94
J. OBERLE	10/18/95
A. HOUSEH	03/06/96
A. HOUSEH	10/15/96
T. RAMMACHER	01/06/00

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 TRAFFIC CONTROL AND PROTECTION  
 FOR  
 SIDE ROADS, INTERSECTIONS, AND  
 DRIVEWAYS

SCALE: NONE

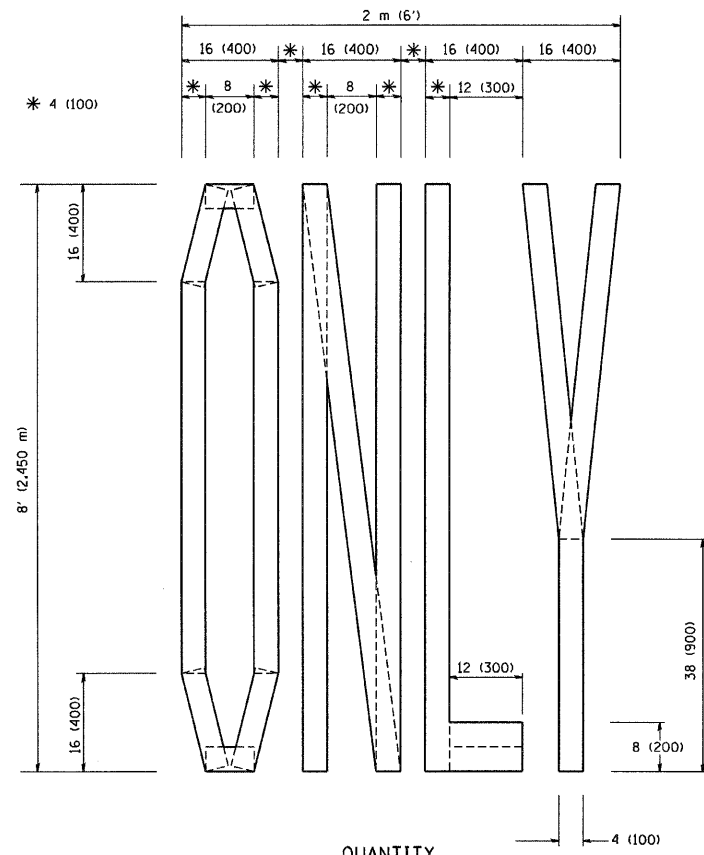
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CHECKED BY

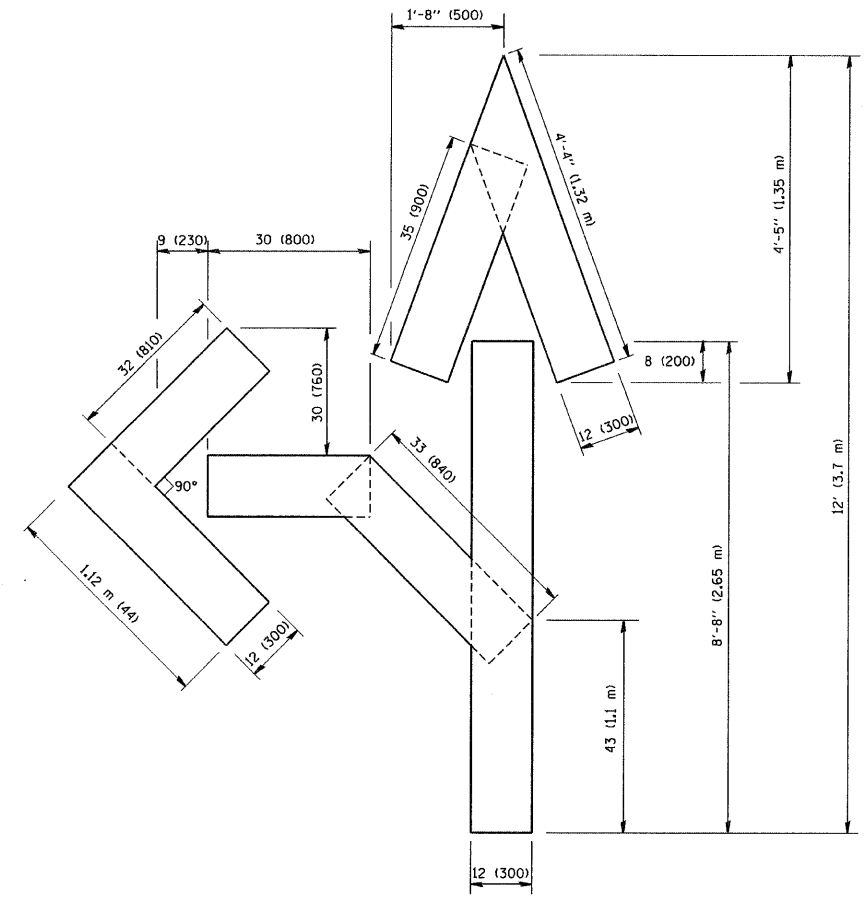
TC-10



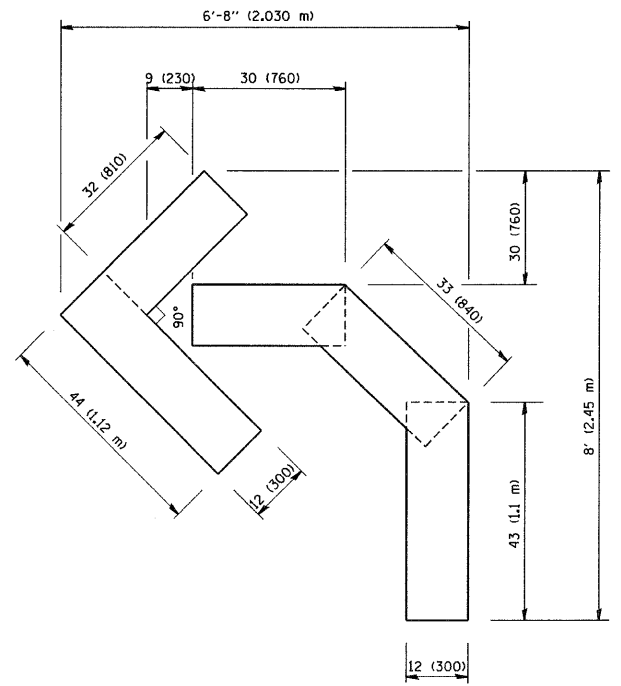
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			101	097
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



QUANTITY  
 4 (100) LINE = 64.1 ft. (19.7 m)  
 21.1 sq. ft. (1.97 sq. m)



QUANTITY  
 4 (100) LINE = 82.5 ft. (25.3 m)  
 27.5 sq. ft. (2.53 sq. m)



QUANTITY  
 4 (100) LINE = 45.5 ft. (13.9 m)  
 15.2 sq. ft. (1.39 sq. m)

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

PLOT DATE = 2/7/2007  
 FILE NAME = K:\dassat\cadd\sign  
 PLOT SCALE = 800000 / IN.  
 USER NAME = bauerd

REVISIONS	
NAME	DATE
T. RAMMACHER	09/18/94
J. OBERLE	06/01/96
T. RAMMACHER	06/05/96
T. RAMMACHER	11/04/97
T. RAMMACHER	03/02/98
E. GOMEZ	08/28/00

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING  
 LETTERS AND SYMBOLS  
 FOR TRAFFIC STAGING

SCALE: NONE

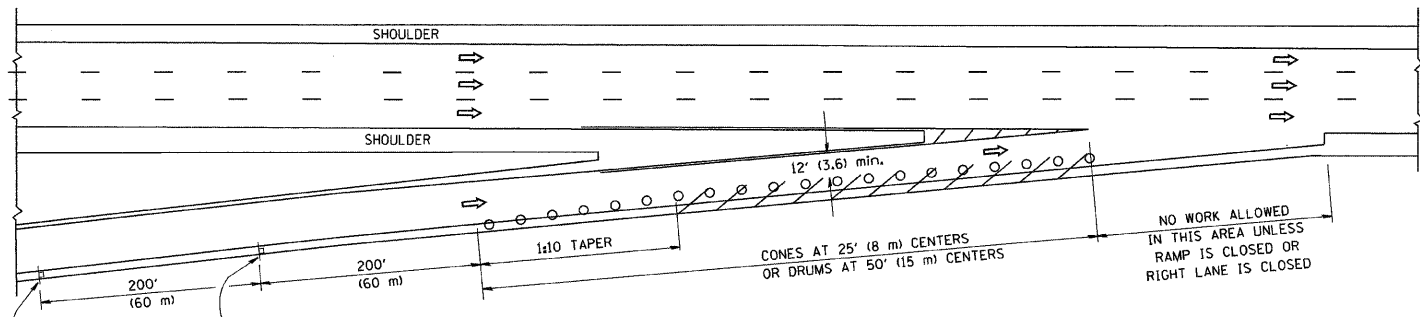
DRAWN BY CADD

CHECKED BY  
 TC-16

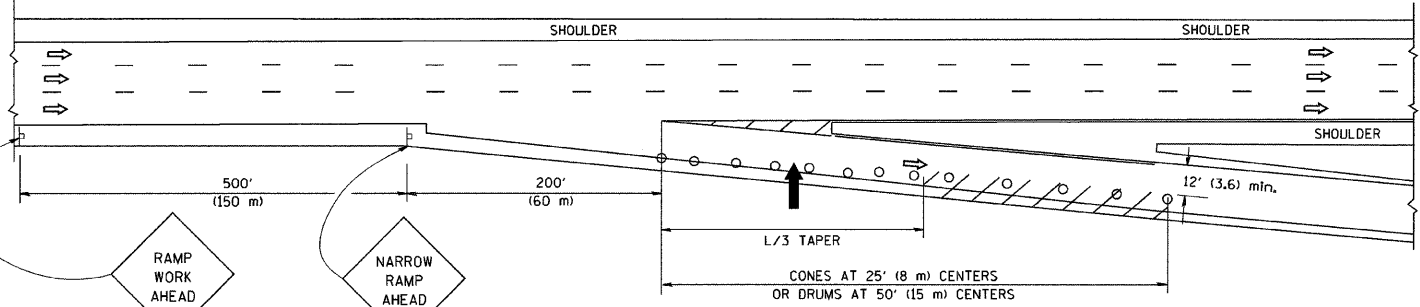
PARTIAL RAMP CLOSURE DETAILS

SHOULDER CLOSURE DETAILS

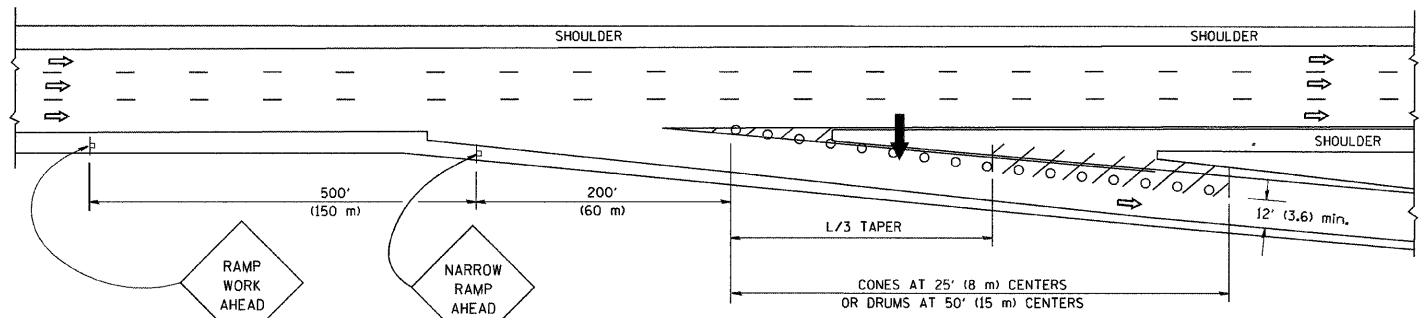
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			101	098
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

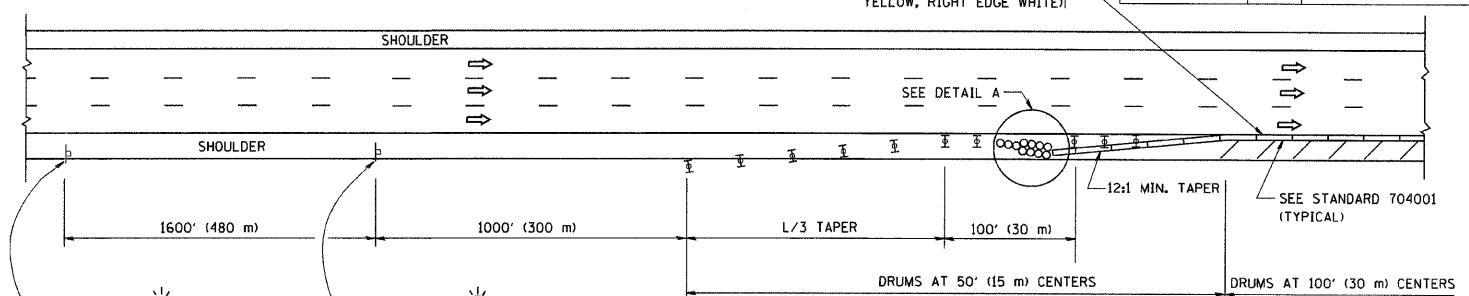
SYMBOLS

- ARROWBOARD
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE

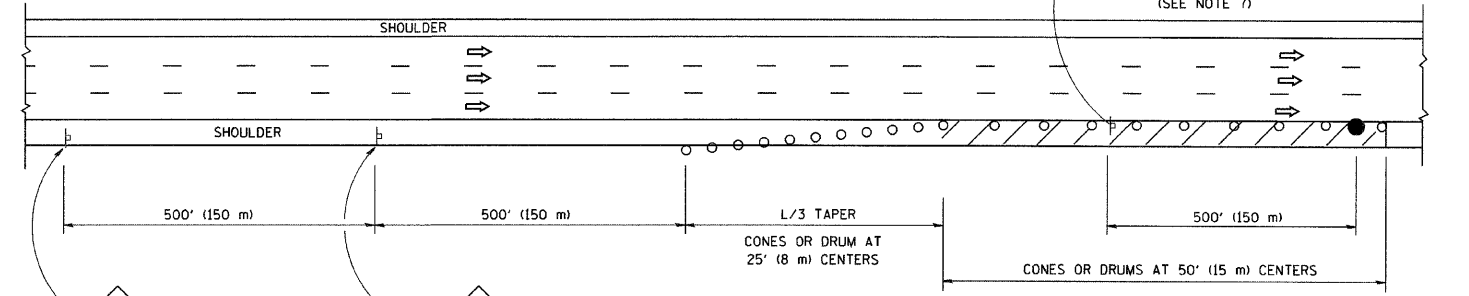
GENERAL NOTES

1. THE "L" DISTANCE EQUALS:
 

SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC: $L=0.65(W)(S)$ ENGLISH: $L=(W)(S)$
	W = WIDTH OF OFFSET IN FEET (METERS)
	S = NORMAL POSTED SPEED MPH (KM/H)
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.

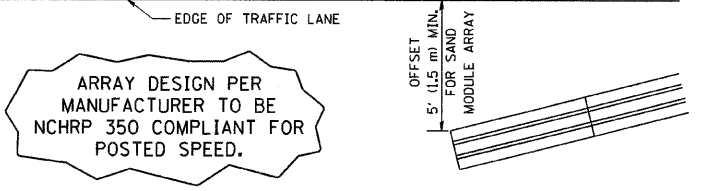


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

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



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

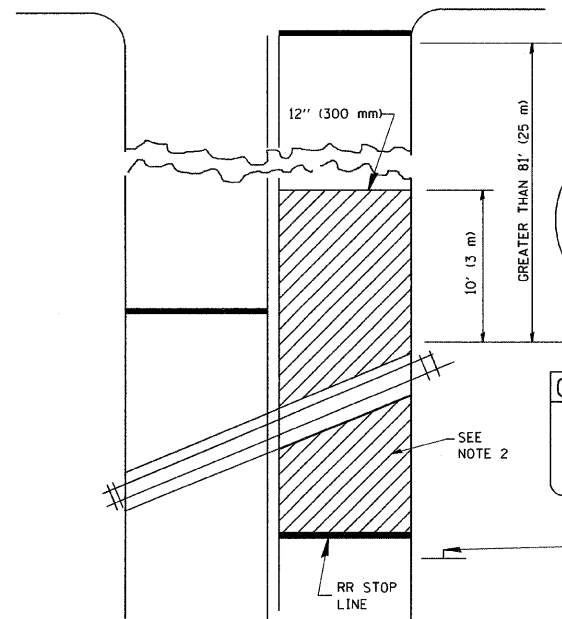
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

REVISIONS	
NAME	DATE
DWS	11/96
JAF	12/02
NCHRP 350	04/03
JAF	2/06
SPB	1/07

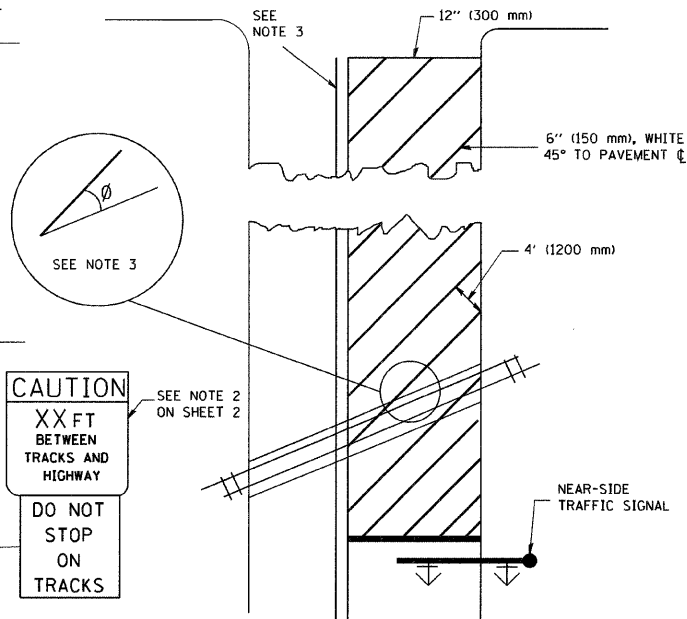
ILLINOIS DEPARTMENT OF TRANSPORTATION  
**TRAFFIC CONTROL DETAILS  
 FOR FREEWAY  
 SHOULDER CLOSURES  
 PARTIAL RAMP CLOSURES**  
 DESIGNED BY: DWS  
 DRAWN BY:  
 CHECKED BY:  
 TC-17

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			101	099
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

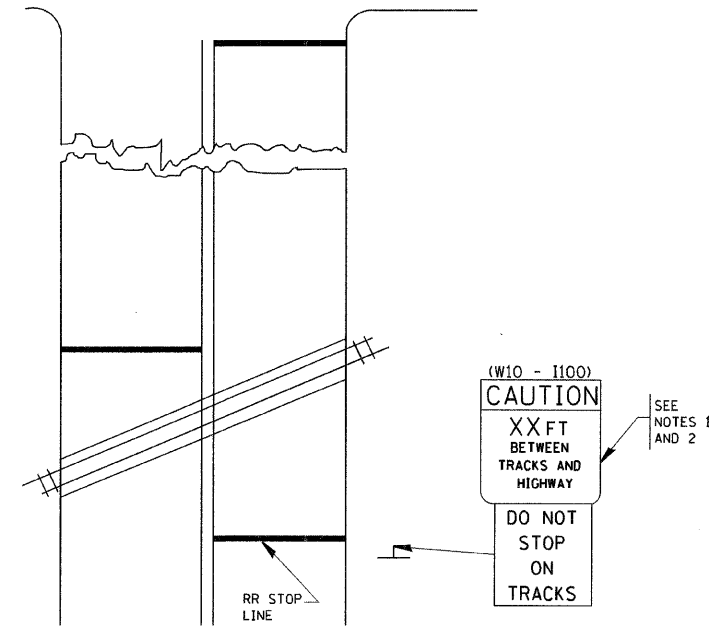
WITH INTERSECTION TRAFFIC SIGNALS



WITH NEAR-SIDE TRAFFIC SIGNALS



WITH NONSIGNALIZED INTERSECTION  
81' (25 m) OR LESS TO CLOSEST RAIL



NOTES:

- PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED, THE PAVEMENT MARKINGS EXTENDS TO THE INTERSECTION.
- WHERE THE ANGLE BETWEEN THE DIAGONAL STRIPES AND THE TRACK ( $\theta$ ) WOULD BE LESS THAN APPROXIMATELY 20°, THE STRIPES SHOULD BE SLOPED IN THE OPPOSITE DIRECTION FROM THAT SHOWN.

NOTE:

- DISTANCE TO BE SHOWN ON SIGN MEASURED FROM A POINT 6 FEET (1.8 m) FROM THE RAIL CLOSEST TO THE INTERSECTION TO THE STOP LINE OR CROSSWALK, WHICHEVER IS CLOSEST, ROUNDED DOWN TO THE NEAREST 5 FEET (1.5 m). WHERE THERE IS NO STOP LINE, MEASURE TO POINT WHERE THE DRIVER HAS A VIEW OF APPROACHING TRAFFIC.
- THE CLEARANCE SIGN IS ALSO TO BE USED AS AN INTERIM MEASURE AT LOCATIONS WITH INTERCONNECTED INTERSECTION TRAFFIC SIGNALS WHERE IT IS PLANNED TO CHANGE THEM TO NEAR-SIDE SIGNALS AT A FUTURE TIME. IN THIS CASE, THE DISTANCE TO BE SHOWN ON THE SIGN IS MEASURED FROM THE EDGE OF THE STRIPED-OUT AREA INSTEAD OF 6-FEET FROM THE RAIL. THE SIGN IS TO BE REMOVED WHEN THE NEAR-SIDE SIGNALS ARE INSTALLED AND THE PAVEMENT MARKINGS EXTEND TO THE INTERSECTION.

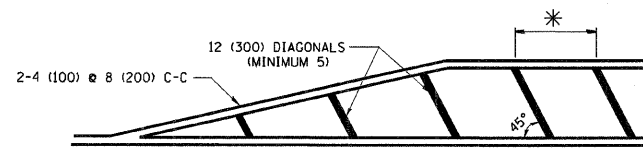
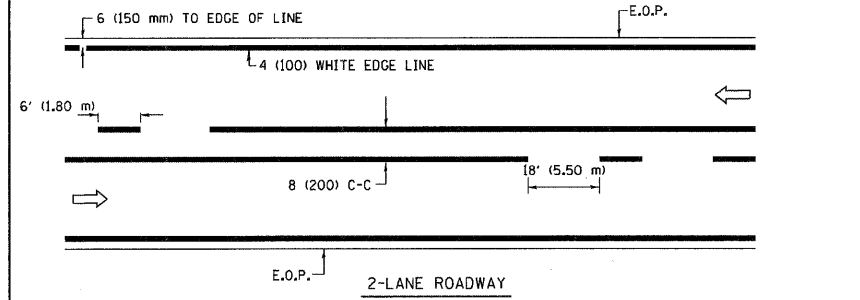
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

REVISIONS	
NAME	DATE
	01/01/07

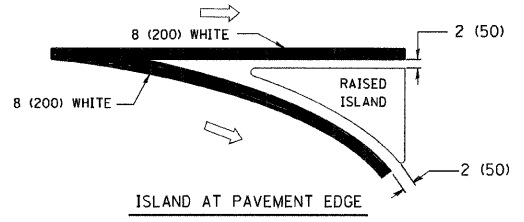
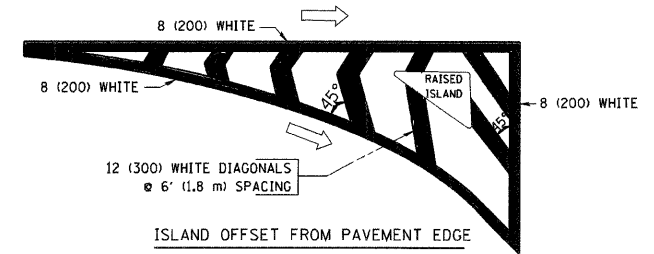
ILLINOIS DEPARTMENT OF TRANSPORTATION  
TYPICAL SUPPLEMENTAL  
SIGNING AND PAVEMENT MARKING  
TREATMENT FOR RAILROAD CROSSINGS

SCALE: NONE  
DRAWN BY  
CHECKED BY  
TC23

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			101	100
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

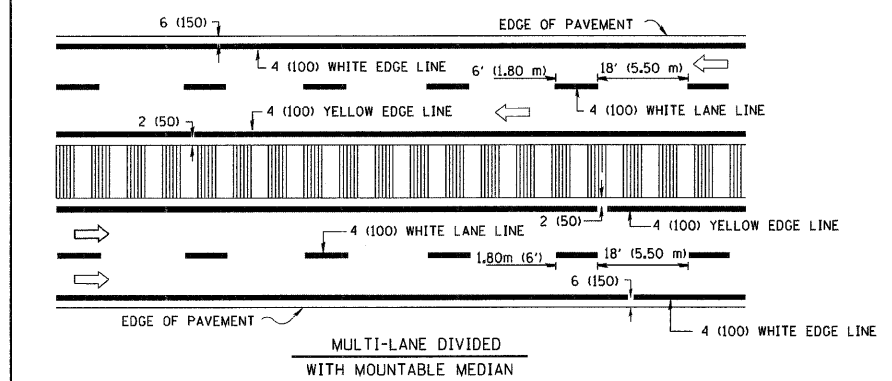
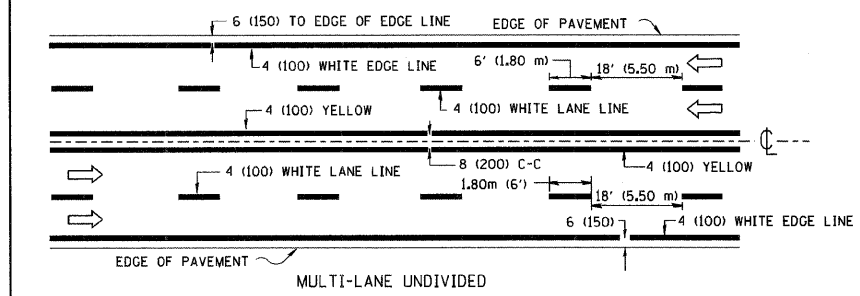


\* FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.  
 \* DIAGONAL LINE SPACING: 20' (6.1 m) C-C



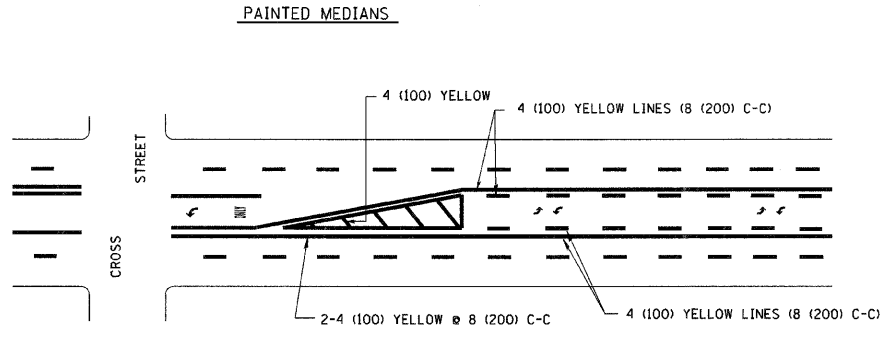
TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	6' (1.80 m) LINE WITH 18' (5.50 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	8 (200) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	8 (200) C-C
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	6' (1.80 m) LINE WITH 18' (5.50 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINES; FULL SIZE LETTERS & SYMBOLS (8' (2.4 m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4 m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	6' (1.8 m) LINE WITH 18' (5.50 m) SPACE FOR SKIP-DASH; 8 (200) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 8 (200) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2'-4" (700) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45°	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	8 (200) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 20' (6.1 m) (LESS THAN 30 MPH (50 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15 6" (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF "R"=3.6 SQ. FT. (0.33m <sup>2</sup> ) EACH "X"=54.0 SQ. FT. (5.0 m <sup>2</sup> )



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

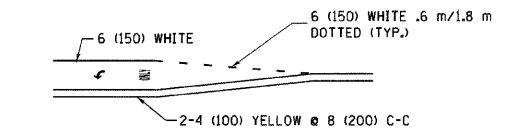
TYPICAL LANE AND EDGE LINE MARKING



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

MEDIAN WITH TWO-WAY LEFT TURN LANE

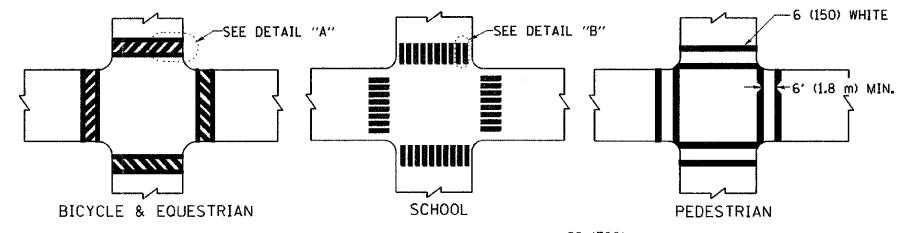
TYPICAL PAINTED MEDIAN MARKING



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

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



TYPICAL CROSSWALK MARKING

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STREET MARKING STANDARDS, PRINTED BY CITY OF CHICAGO, DEPARTMENT OF TRANSPORTATION, BUREAU OF TRAFFIC.

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

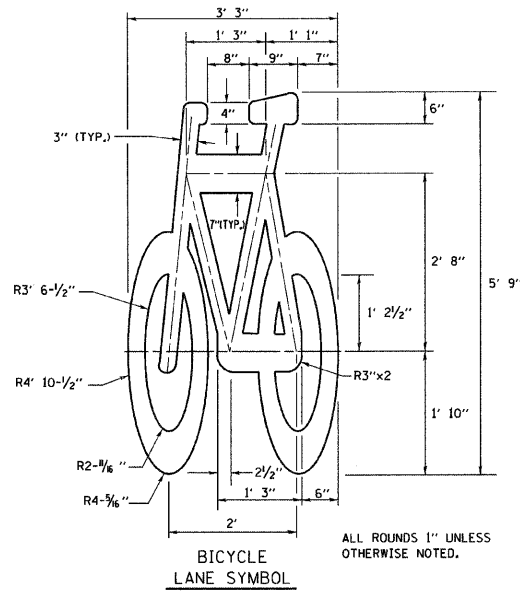
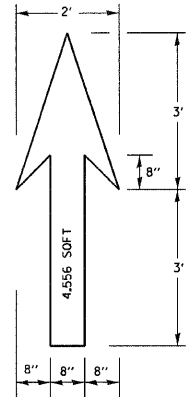
REVISIONS	
NAME	DATE
T. RAMMACHER	12/07/00

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 CITY OF CHICAGO  
 TYPICAL PAVEMENT MARKINGS

SCALE: NONE  
 DRAWN BY CADD  
 CHECKED BY  
 TC-24

PLOT DATE = 3/7/2007  
 FILE NAME = K:\data\std\std24.dgn  
 PLOT SCALE = 50.000' / IN.  
 USER NAME = bauerdl

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			101	101
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

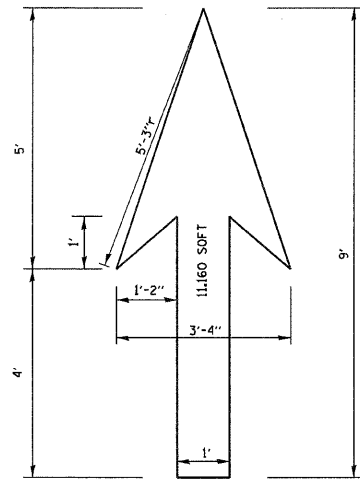


**NOTE:**

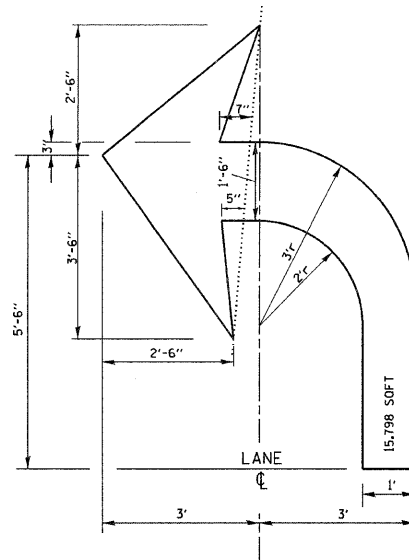
- FOR BIKE LANE SYMBOLS ONLY, USE PRE-FORMED THERMOPLASTIC WITH A MINIMUM THICKNESS OF 90 MILS, MINIMUM SKID RESISTANCE VALUE OF 60 BPN, & A MINIMUM INDEX OF REFRACTION OF 1.50.
- THE RESIDENT ENGINEER SHALL CONTACT MR. BEN GOMBERG AT 312-744-8093 AT LEAST ONE CALENDAR WEEK PRIOR TO INSTALLING BIKE LANE SYMBOLS.

TYPICAL BIKE LANE SYMBOLS  
DRAWING #28

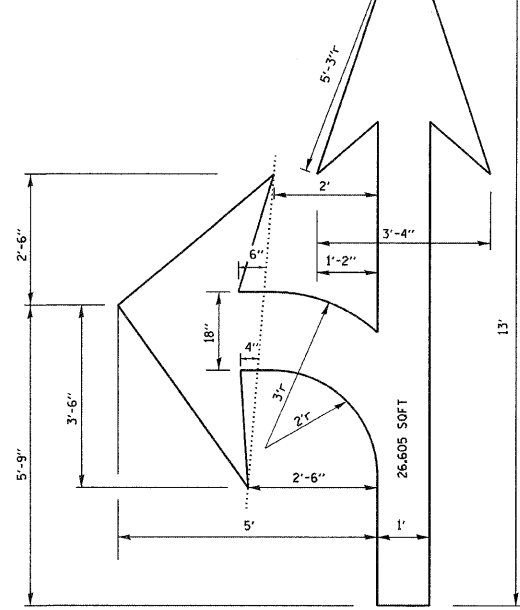
DRAWING #29



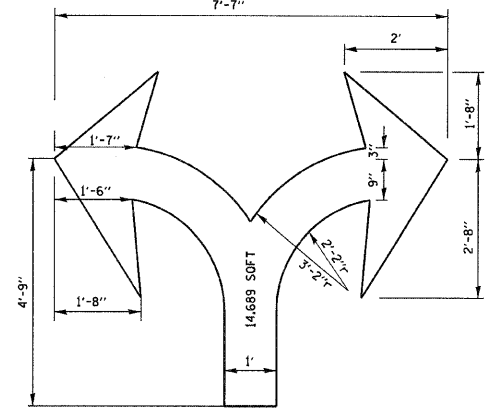
DRAWING #30



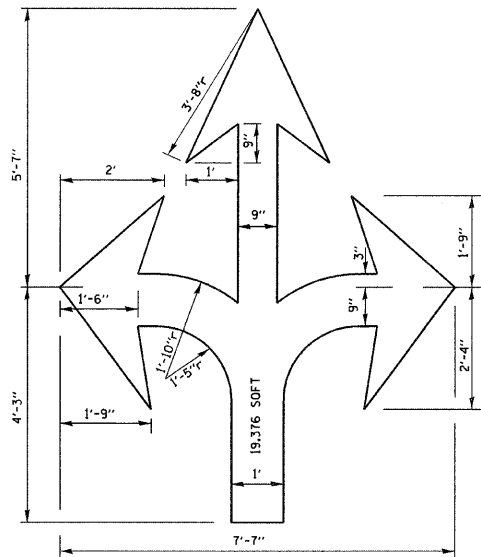
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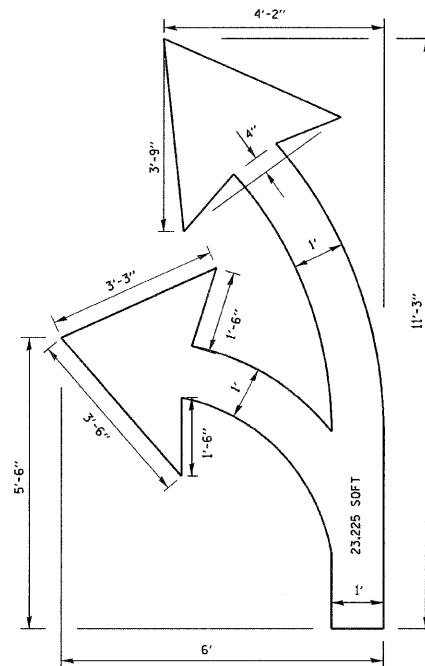
DRAWING #32



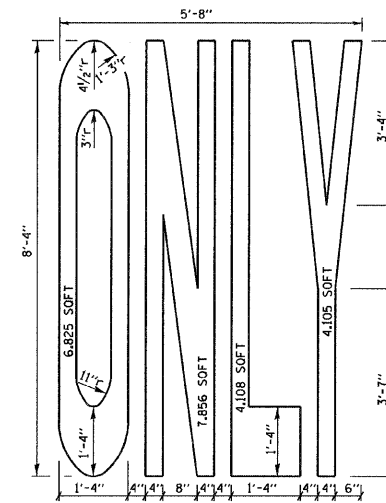
DRAWING #33



DRAWING #34



DRAWING #35



**NOTE:**

ALL MARKINGS SHALL BE SOLID WHITE UNLESS OTHERWISE NOTED IN THE PLANS

REVISIONS	
NAME	DATE
T. RAMMACHER	12/07/00

ILLINOIS DEPARTMENT OF TRANSPORTATION  
CITY OF CHICAGO  
TYPICAL PAVEMENT MARKINGS

SCALE: NONE

DRAWN BY  
CHECKED BY  
TC-24