

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.1B-R	COOK	101	001

CONTRACT NO. 62532

FOR INDEX OF SHEETS, SEE SHEET NO. 2

LIST OF BRIDGE WORK:

- S.N. 016-0989 111TH STREET OVER NB AND SB I-57
- REMOVE AND REPLACE EXISTING CONCRETE DECK.
- REMOVE AND REPLACE EXISTING ABUTMENT BACKWALL AND PORTIONS OF RETAINING WALL.
- REMOVE AND REPLACE APPROACH SLABS.
- REMOVE EXISTING EXPANSION BEARINGS AND REPLACE WITH ELASTOMERIC BEARINGS.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAI ROUTE 57
(I-57)
COOK COUNTY
111TH STREET BRIDGE DECK REPLACEMENT
OVER NORTHBOUND AND SOUTHBOUND INTERSTATE 57
SECTION 2021.1B-R
PROJECT: ESP-057-7(282)358
C-91-336-02

SEALS

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

SIGNATURE:
NAME: BYRON DANLEY
SIGNATURE & SEAL APPLY TO DRAWING
NOS. 1 TO 25 AND 33 TO 88
DATE: 11/16/09

SEALS

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

SIGNATURE: Paul A. Rogalski
NAME: PAUL A. ROGALSKI
SIGNATURE & SEAL APPLY TO DRAWING
NOS. 26 TO 32
DATE: 11/30/2009 (EXP)

TRAFFIC DATA

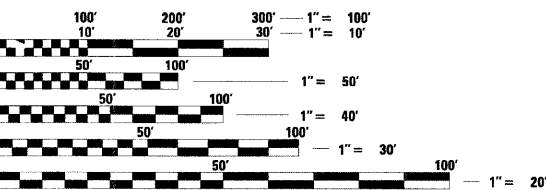
2008 ADT = 12,700 (111TH STREET)

POSTED SPEED LIMIT

30 MPH (111TH STREET)

PROJECT LOCATED IN THE CITY OF CHICAGO

PLANS 1" = 50'
PROFILES 1" = 5'
X-SECTIONS 10' H
5' V

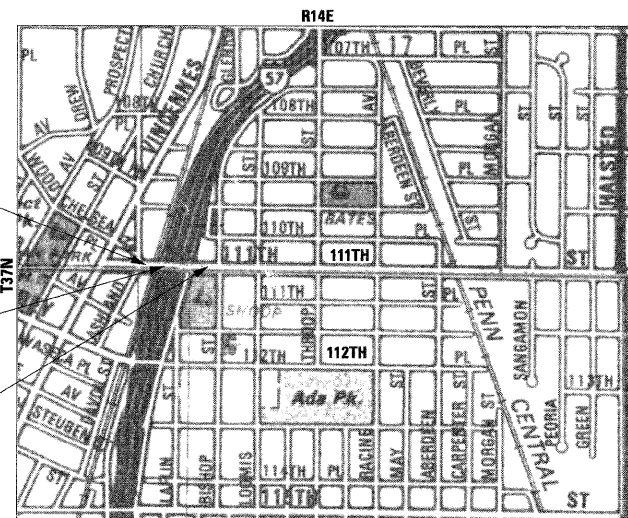


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

FOR UTILITY INFORMATION CALL C.U.A.N.
(CHICAGO UTILITY ALERT NETWORK) AT (312) 744-7000
48 HOURS BEFORE DIGGING

CONTRACT NO. 62532

111TH STREET BRIDGE DECK REPLACEMENT
OVER NORTHBOUND AND SOUTHBOUND INTERSTATE 57



BEGIN IMPROVEMENT
STA. 10+20 OF 111TH STREET

S.N. 016-0989
STA 11+94 176'-7"

END IMPROVEMENT
STA. 14+75 OF 111TH STREET

CALUMET TOWNSHIPS
GROSS LENGTH OF PROJECT: 455' = 0.09 MILES
NET LENGTH OF PROJECT: 455' = 0.09 MILES



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED: JANUARY 12, 2009

Diana M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAY, REGION 1

March 13, 2009
Charles J. Ingersoll
ENGINEER OF DESIGN AND ENVIRONMENT

March 13, 2009
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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

DISTRICT 1 (847) 705-4431 PROJECT MANAGER: BRIAN KUTTAB

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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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STD. NO.	DESCRIPTION
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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
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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: 312/616-0000

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.1B-R	COOK	101	004
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62532				

CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT-SEWER SECTION REQUIREMENTS

= INCLUDED IN THE COST OF

- ALL CATCH BASINS IN THE CITY OF CHICAGO MUST MEET THE DEPARTMENT OF WATER MANAGEMENT-SEWER SECTION.
- PAVEMENT REPLACEMENT AROUND FRAMES AND GRATES OR LIDS WHERE DRAINAGE STRUCTURES AND ADJUSTED OR RECONSTRUCTED SHALL BE WITH CLASS SI CONCRETE AND INCLUDED IN THE COST OF THE ADJUSTMENT OR RECONSTRUCTION.
- THERE ARE FIVE VALVE BASINS FRAMES AND COVERS WITHIN THE PROPOSED LIMITS. VERTICAL ADJUSTMENT THAT MAY BE REQUIRED TO THESE FACILITIES SHALL BE PERFORMED BY THE CONTRACTOR AND THE FINAL PAYMENT TO THE CONTRACTOR BE WITHHELD UNTIL THIS DEPARTMENT OF WATER-SEWER SECTION HAS INSPECTED AND FOUND ITS FACILITIES ACCEPTABLE. THESE ADJUSTMENTS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR FRAMES AND LIDS TO BE ADJUSTED.

- THERE ARE NUMEROUS MANHOLES, CATCH BASINS AND INLETS WHICH MUST BE PROTECTED FROM ENTRY OF ASPHALT/DEBRIS INTO THE SEWER SYSTEM DURING CONSTRUCTION. THE CONTRACTOR SHALL MARK LOCATIONS OF ALL SEWER STRUCTURES ON THE SIDEWALK BEFORE STARTING PAVEMENT REMOVAL/REPLACEMENT. ALL NECESSARY ADJUSTMENTS TO SEWER FACILITIES, INCLUDING VERTICAL ADJUSTMENT OF FRAMES AND LIDS, MUST BE PERFORMED BY THE CONTRACTOR PRIOR TO STREET RESURFACING.

PERMITS FROM THE DEPT OF WATER - SEWER SECTION ARE REQUIRED FOR ALL UNDERGROUND STORM, SANITARY OR COMBINED SEWER SYSTEM CONSTRUCTION, AND FOR ALL WORK INVOLVING ADJUSTMENT OF SEWER STRUCTURES. THE DEPT OF WATER - SEWER SECTION PERMIT MUST BE OBTAINED BY A LICENSED SEWER DRAIN LAYER PRIOR TO START OF CONSTRUCTION. THE LICENSED SEWER CONTRACTOR/ SUBCONTRACTOR MUST SUBMIT TWO SETS OF PLANS APPROVED BY THE DEPT OF WATER - SEWER SECTION FOR THE ISSUE OF THE SEWER PERMIT TO SUITE 410, 333 S. STATE ST, CHICAGO, IL 60604-3971. INSPECTION WILL BE PROVIDED BY THE DEPT OF WATER - SEWER SECTION

- IN CASE OF DAMAGE TO CITY OF CHICAGO SEWERS, PRIVATE AND PUBLIC DRAINS, SEWER STRUCTURES AND/OR BENCH MONUMENTS, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE DEPARTMENT OF WASTE MANAGEMENT-SEWER SECTION AT (312) 747-7893 OR (312) 747-8117. THE CONTRACTOR MUST, AT HIS/HER COST, REPLACE THE AFFECTED SEWERS, DRAIN CONNECTIONS, SEWER STRUCTURES AND/OR BENCH MONUMENTS AS NECESSARY. THE SEWER FLOWS MUST BE MAINTAINED AT ALL TIMES.
- BENCH MONUMENT LOCATIONS WITHIN THE LIMITS OF THE IMPROVEMENT CAN BE OBTAINED FROM THE DEPARTMENT OF WATER MANAGEMENT-SEWER SECTION AT SUITE 410, 333 S. STATE ST, CHICAGO, IL 60604-3971. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF REPLACING ANY BENCH MONUMENT DAMAGED OR DESTROYED DURING CONSTRUCTION.

IF NOT FOUND OR DAMAGED TO THE CITY'S BENCH MONUMENTS IS ENCOUNTERED, PLEASE CONTACT THE SEWER UNIT OF THE DEPARTMENT OF WATER MANAGEMENT IMMEDIATELY AT (312) 747-7893 OR (312) 747-8117.

- ALL BROKEN, CRACKED, WORN OR OTHERWISE DAMAGED OR BICYCLE UNSAFE FRAMES AND GRATES OR LIDS ON SEWER STRUCTURES SHALL BE REPLACED WITH NEW DEPARTMENT OF SEWERS' STANDARD FRAMES AND GRATES OR LIDS. IN ADJUSTMENT OR RECONSTRUCTION OF SEWER STRUCTURES, ANY NON-STANDARD FRAMES AND LIDS MUST BE REPLACED WITH STANDARD FRAMES AND LIDS. IN ADJUSTMENTS OR RECONSTRUCTION OF INLETS, AND NON-STANDARD INLETS (GUTTER BOXES) MUST BE REPLACED WITH THE SEWER UNITS OF THE DEPARTMENT OF WATER MANAGEMENT STANDARD INLETS. OLD FRAMES AND GRATES OR LIDS SHALL BE DELIVERED TO THE DEPARTMENT OF SEWERS AT 39TH STREET AND ASHLAND AVE.

- CITY OF CHICAGO WATER VALVE VAULTS AND SEWER STRUCTURES SHALL NOT BE CLOSED, COVERED OR OTHERWISE OBSTRUCTED DURING CONSTRUCTION WITHOUT WRITTEN PERMISSION FROM THE CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT - SEWER SECTION.

- THE UTILITY COMPANY/ GOVERNMENT AGENCY AND ITS CONTRACTORS ARE RESPONSIBLE FOR THE ADEQUATE PROTECTION OF THE EXISTING SEWERS, DRAIN CONNECTIONS, SEWER STRUCTURES AND BENCH MONUMENTS DURING CONSTRUCTION OF NEW UTILITIES AND/OR ADJUSTMENTS TO EXISTING UTILITIES AND THE USE OF HEAVY EQUIPMENT WITHIN THE LIMITS OF THE PROJECT.

- IT IS THE RESPONSIBILITY OF THE UTILITY COMPANY/ GOVERNMENT AGENCY AND ITS CONSULTANTS/ CONTRACTORS TO OBTAIN THE NECESSARY BACKGROUND INFORMATION FROM THE SEWER UNIT OF THE DEPARTMENT OF WATER MANAGEMENT IN MEETING THE SEWER UNIT OF THE DEPARTMENT OF WATER MANAGEMENT REQUIREMENTS FOR DESIGN/ CONTRACT PLANS AND FOR EXISTING FACILITIES PROTECTION DURING THE CONSTRUCTION STAGE.

RECORDS FROM THE SEWER UNIT OF THE DEPARTMENT OF WATER MANAGEMENT INCLUDE: EXISTING SEWERS, DRAIN CONNECTIONS, SEWER STRUCTURES, BENCH MONUMENT LOCATIONS, ORDINANCE GRADES, AGE OF SEWER AND PIPE MATERIAL.

COPIES OF SEWER RECORDS CAN BE OBTAINED BY PAYMENT AT THE SEWER UNIT OF THE DEPARTMENT OF WATER MANGEMENT, LOCATED AT 333 S. STATE STREET SUIT 410, CHICAGO, ILLINOIS 60604-3971.

- THE SEWER UNIT OF THE DEPARTMENT OF WATER MANAGEMENT MUST BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION, WITH THE NAME AND TELEPHONE NUMBER OF THE RESIDENT ENGINEER WHO COULD BE CONTACTED FOR ANY SEWER EMERGENCY.
- THE UTILITY COMPANY/ GOVERNMENT AGENCY OR ITS REPRESENTING CONTRACTOR MUST MAINTAIN ACCESS TO THE EXISTING SEWER FACILITIES INCLUDED SEWER STRUCTURES AT ALL TIMES AND COORDINATE THE PROPOSED IMPROVEMENTS WITH THE SEWER UNIT OF THE DEPARTMENT OF WATER MANAGEMENT ENGINEER/ INSPECTOR TO AVOID ANY INTERRUPTION OF THE SEWER FACILITIES MAINTENANCE OR SERVICES THE SEWER FLOW HAS TO BE MAINTAINED AT ALL TIMES.

- THE UTILITY COMPANY/ GOVERNMENT AGENCY OR ITS REPRESENTING CONTRACTOR MUST COORDINATE WITH THE SEWER UNIT OF THE DEPARTMENT OF WATER MANAGEMENT TO ARRANGE FOR THE INSPECTION OF THE EXISTING CATCH BASINS. THE SEWER UNIT OF THE DEPARTMENT OF WATER AMANAGEMENT WILL DETERMINE THE NEED FOR CATCH BASIN REPAIR, REPLACEMENT OR CLEANING.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
111TH STREET OVER
F.A.I ROUTE 57 (INTERSTATE 57)
**CITY OF CHICAGO DEPARTMENT
OF WATER-MANAGEMENT - SEWER
REQUIREMENTS**

SCALE: NONE
DATE: 01/16/09

DRAWN BY: BRH
CHECKED BY: ACL

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

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SUMMARY OF QUANTITIES

CODE NO.	ITEM	URBAN UNIT	URBAN TOTAL QUANTITY	ROADWAY	BRIDGE ①	LIGHTING	CDOT LIGHTING	CDOT TRAFFIC SIGNALS	CONSTRUCTION TYPE CODE															
									1	2	3	4	5	6	7	8	9	10	11	12				
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	60	60																				
20101000	TEMPORARY FENCE	FOOT	520	520																				
20101100	TREE TRUNK PROTECTION	EACH	5	5																				
20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	180		180																			
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	2036	2036																				
25000210	SEEDING, CLASS 2A	ACRE	0.4	0.4																				
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	37	37																				
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	37	37																				
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	37	37																				
25100630	EROSION CONTROL BLANKET	SQ YD	2036	2036																				
28000400	PERIMETER EROSION BARRIER	FOOT	537	537																				
28000510	INLET FILTERS	EACH	20	20																				
40600200	BITUMINOUS MATERIALS (PRIME COAT)	TON	2	2																				
40600300	AGGREGATE (PRIME COAT)	TON	6	6																				
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	0.4	0.4																				
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	155	155																				
40600895	CONSTRUCTING TEST STRIP	EACH	2	2																				
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	233	233																				
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	5	5																				
42001300	PROTECTIVE COAT	SQ YD	311	311																				
42001400	BRIDGE APPROACH PAVEMENT (SPECIAL)	SQ YD	369	369																				
42001420	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SQ YD	140	140																				
42400410	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	SQ FT	1960	1960																				
42400800	DETECTABLE WARNINGS	SQ FT	97	97																				
44000100	PAVEMENT REMOVAL	SQ YD	153	153																				
44000198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	2637	2637																				
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	423	423																				
44000600	SIDEWALK REMOVAL	SQ FT	1960	1960																				
44000700	APPROACH SLAB REMOVAL	SQ YD	368	368																				
44200104	PAVEMENT PATCHING, TYPE I, 9 INCH	SQ YD	100	100																				
44200108	PAVEMENT PATCHING, TYPE II, 9 INCH	SQ YD	80	80																				

• DENOTES SPECIALTY ITEMS
□ NON-PARTICIPATING

BRIDGE INFORMATION

① 111TH ST. OVER NB & B I-57 S.N. 016-0989

REVISIONS	
NAME	DATE

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

SUMMARY OF QUANTITIES

SCALE: N.T.S. DRAWN BY: BRH
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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SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	100% FED. URBAN X771-2A TOTAL QUANTITY	ROADWAY	BRIDGE ①	LIGHTING	CDOT LIGHTING	CDOT TRAFFIC SIGNALS	CONSTRUCTION TYPE CODE							
X701005	TRAFFIC CONTROL AND PROTECTION FOR TEMPORARY DETOUR	L SUM	1	1												
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	224	224												
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLES	SQ FT	61	61												
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	502	502												
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1879	1879												
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1240	1240												
70400100	TEMPORARY CONCRETE BARRIER	FOOT	1600	1600												
*72000100	SIGN PANEL - TYPE 1	SQ FT	24	24												
*72000200	SIGN PANEL - TYPE 2	SQ FT	11	11												
*72400320	REMOVE SIGN PANEL - TYPE 2	SQ FT	11	11												
*72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	43	43												
*73100100	BASE FOR TELESCOPING STEEL SIGN SUPPORT	EACH	2	2												
*78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	126	126												
*78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1856	1856												
*78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	621	621												
*78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	402	402												
*78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	130	130												
*78003100	PERFORMED PLASTIC PAVEMENT MARKING, TYPE B - LETTERS AND SYMBOLS	SQ FT	268	268												
*78003110	PERFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 4"	FOOT	836	836												
*78003130	PERFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 6"	FOOT	341	341												
*78003150	PERFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 12"	FOOT	100	100												
*78003180	PERFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 24"	FOOT	108	108												
*78200530	BARRIER WALL MARKERS, TYPE C	EACH	128	128												
78300100	PAVEMENT MARKING REMOVAL	SQ FT	963	963												
*81100320	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	820			820										
*81300220	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	12			12										
*81300530	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	6			6										
*81700110	ELECTRIC CABLE IN CONDUIT, 600V, (EPR-TYPE RHW) 1/C NO. 10	FOOT	2860			2860										
*88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	4					4								
*88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	12					12								
*88040110	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	2					2								

* DENOTES SPECIALTY ITEMS
□ NON-PARTICIPATING

BRIDGE INFORMATION

① 111TH ST. OVER NB & SB I-57 S.N. 016-0989

REVISIONS	
NAME	DATE

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

SUMMARY OF QUANTITIES

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

DRAWN BY: BRH
CHECKED BY: ACL



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

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 HCH/BRB

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	100% FED. URBAN	ROADWAY	BRIDGE	LIGHTING	CDOT LIGHTING	CDOT TRAFFIC SIGNALS	CONSTRUCTION TYPE CODE								
			X771-2A		①												
			TOTAL QUANTITY														
* 88040120	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	2					2									
* 88102810	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED	EACH	12					12									
* 89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	2					2									
□ X0320080	ROD AND CLEAN DUCT IN EXISTING CONDUIT SYSTEM	FOOT	652					652									
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	237	237													
* X0322679	CONCRETE FOUNDATION FOR TYPE "P" BASE MOUNTED TRAFFIC SIGNAL CONTROLLER	EACH	2					2									
* X0322683	CONCRETE FOUNDATION 24" DIA.	FOOT	54				18	36									
* X0322684	CONCRETE FOUNDATION 30" DIA.	FOOT	22					22									
* X0322701	SERVICE INSTALLATION, 100 AMP	EACH	1				1										
* X0322712	STREET NAME SIGN	EACH	7					7									
X0323080	DRAINAGE SCUPPERS, DS-12	EACH	6		6												
X0323574	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	8			8											
X0324182	ELECTRICAL CABLE IN CONDUIT, TRIPLEX NO.6, 2-1C AND NO.8, 1-1C	FOOT	1550				1550										
X0324571	MAINTENANCE OF STREET LIGHTING SYSTEM (CITY OF CHICAGO)	L SUM	1				1										
X0324900	SERVICE CONNECTION TO CECO LINE	EACH	1				1										
X0324902	REMOVE EXISTING TRAFFIC SIGNAL FOUNDATION	EACH	7					7									
84200500	REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE	EACH	12			12											
X0325305	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	2223		2223												
* 81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	510				510										
* X0329888	REMOVE EXISTING STREET LIGHTING EQUIPMENT	L SUM	1				1										
* X0329890	SOLID STATE FULL-ACTUATED CONTROLLER, 4-PHASE DIGITAL TIMING WITH SOLID STATE TIME BASE COORDINATOR IN BASE MOUNTED CABINET	EACH	2					2									
* 81012600	CONDUIT IN TRENCH 2" DIA., PVC	FOOT	1100				1100										
* 81012800	CONDUIT IN TRENCH 3" DIA., PVC	FOOT	92					92									
* 81013000	CONDUIT IN TRENCH 4" DIA., PVC	FOOT	97					97									
* X0934800	MAST ARM, STEEL, MONOTUBE 20 FT.	EACH	3					3									
* X0934900	MAST ARM, STEEL, MONOTUBE 26 FT.	EACH	2					2									
* X0935100	MAST ARM, STEEL, MONOTUBE 35 FT.	EACH	2					2									
* X0935700	ELECTRIC CABLE IN CONDUIT NO. 12 19/C	FOOT	1277					1277									
* X0962500	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	L SUM	1					1									
* X0966510	SIGN, MESSAGE, ELECTRICALLY ILLUMINATED, FIBER OPTIC, MAST ARM MOUNTED	EACH	4					4									
* X0966520	SIGN, MESSAGE, ELECTRICALLY ILLUMINATED, FIBER OPTIC, BRACKET MOUNTED	EACH	4					4									

* DENOTES SPECIALTY ITEMS
 □ NON-PARTICIPATING

BRIDGE INFORMATION

① 111TH ST. OVER NB & SB I-57 S.N. 016-0989

REVISIONS	
NAME	DATE

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

SUMMARY OF QUANTITIES

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

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

ATTENTION: SUDOCHE.DCN, SUDOCHE.DCN, SUDOCHE.DCN
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 HEADLINE

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	100% FED URBAN TOTAL QUANTITY	ROADWAY	BRIDGE ①	LIGHTING	CDOT LIGHTING	CDOT TRAFFIC SIGNALS	CONSTRUCTION TYPE CODE								
* X0966700	JUNCTION BOX, POLE OR POST MOUNTED	EACH	10					10									
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1													
* X8410102	TEMPORARY LIGHTING SYSTEM	L SUM	1				1										
X0323157	REMOVE LUMINAIRE FROM UNDERPASS	EACH	12				12										
XX104800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-V.12	FOOT	418	418													
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.5	0.5												
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	15	15													
Z0018800	DRAINAGE SYSTEM	L SUM	1		1												
Z0018940	DRILL EXISTING MANHOLE OR HANDHOLE	EACH	83				29	54									
Z0030240	IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2	EACH	2	2													
Z0030250	IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	4	4													
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1													
Z0064800	SELECTIVE CLEARING	UNIT	1	1													
Z0073300	TEMPORARY SHORING AND CRIBBING	L SUM	1		1												
⊙ Z0076600	TRAINEES	HOUR	1,000	1,000													
* B1900302	TRENCH AND BACKFILL WITH SCREENINGS OR SAND	FOOT	1232				1232										
* B4200700	LIGHTING FOUNDATION REMOVAL	EACH	3				3										
* B1100805	CONDUIT ATTACHED TO STRUCTURE, 3" DIA., PVC COATED GALVANIZED STEEL	FOOT	940					940									
* X0326347	ELECTRIC CABLE IN CONDUIT NO. 4 2 C	FOOT	205					205									
* B7301155	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 12 7 C	FOOT	612					612									
* B1702400	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 2	FOOT	150				150										
* X0322709	CONTROLLER, STREET LIGHTING, BASE MOUNTED, 1-PHASE, 100 AMP	EACH	1				1										
* X8300100	LIGHT POLE, ALUMINUM, WITH MAST ARM, INSTALL ONLY	EACH	6				6										
* B2107100	UNDERPASS LUMINAIRE, 70 WATT, HIGH PRESSURE SODIUM VAPOR	EACH	12			12											
* X8210305	PROTECTION AND MAINTENANCE OF EXISTING UNDERPASS LIGHTING	L SUM	1			1											
* B1028080	CONDUIT, BORED AND PULLED, COILABLE NON-METALLIC CONDUIT, 3"	FOOT	948					948									
* X8210407	LUMINAIRE, INSTALL ONLY	EACH	19			19											
X0322915	METAL LIGHT POLE, INSTALL ONLY	EACH	10				2	8									
X0324705	MAST ARM, STEEL, STREET LIGHTING, 12 FOOT, INSTALL ONLY	EACH	12				12										

⊙ Y080
 * DENOTES SPECIALTY ITEMS
 □ NON-PARTICIPATING

BRIDGE INFORMATION

① 111TH ST. OVER NB & SB I-57 S.N. 016-0989

REVISIONS	
NAME	DATE

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

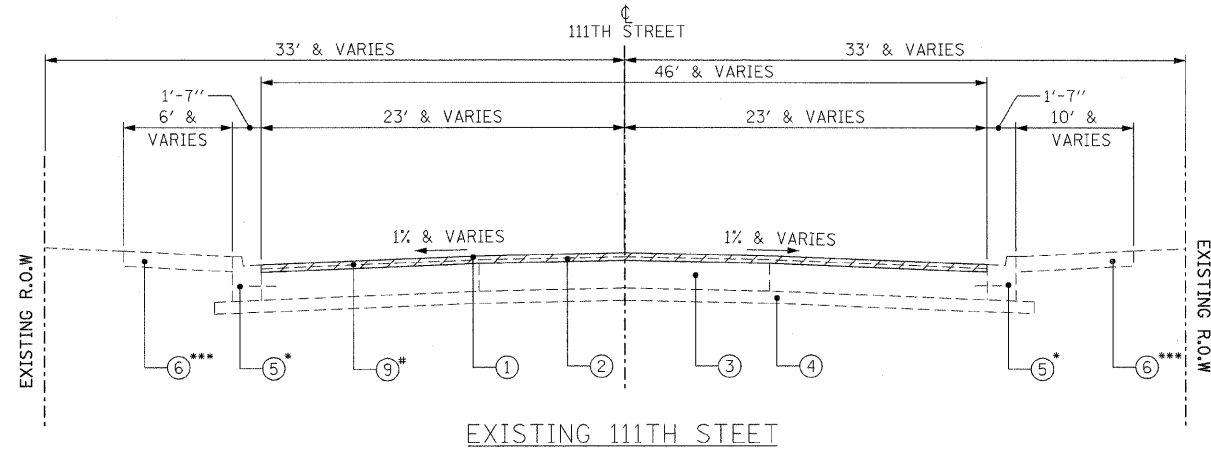
SUMMARY OF QUANTITIES

SCALE: N.T.S. DRAWN BY: BRH
 DATE: 01/15/09 CHECKED BY: ACL

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

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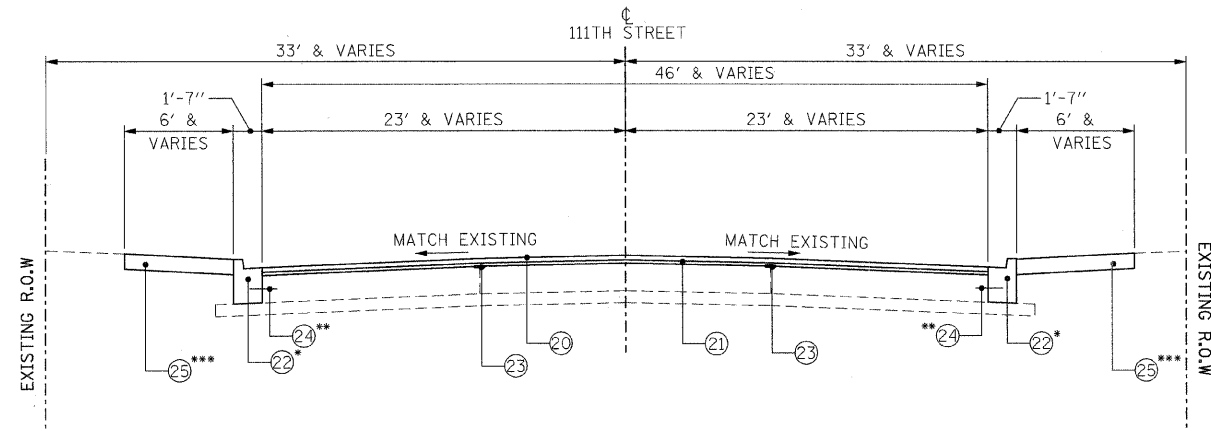
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EXISTING 111TH STREET

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:

1. EXISTING DIMENSIONS AND THICKNESSES SHOWN ARE FROM RECORD PLANS. ACTUAL DIMENSIONS AND THICKNESSES MAY VARY.
2. ADDITIONAL STRIP REFLECTIVE CRACK CONTROL TREATMENT PLACEMENT LOCATIONS MY BE REQUIRED AT PAVEMENT JOINTS AND AS DIRECTED BY THE ENGINEER.
3. 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 [Solid Box] = INCLUDED IN THE COST OF

- 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"

REVISIONS	
NAME	DATE

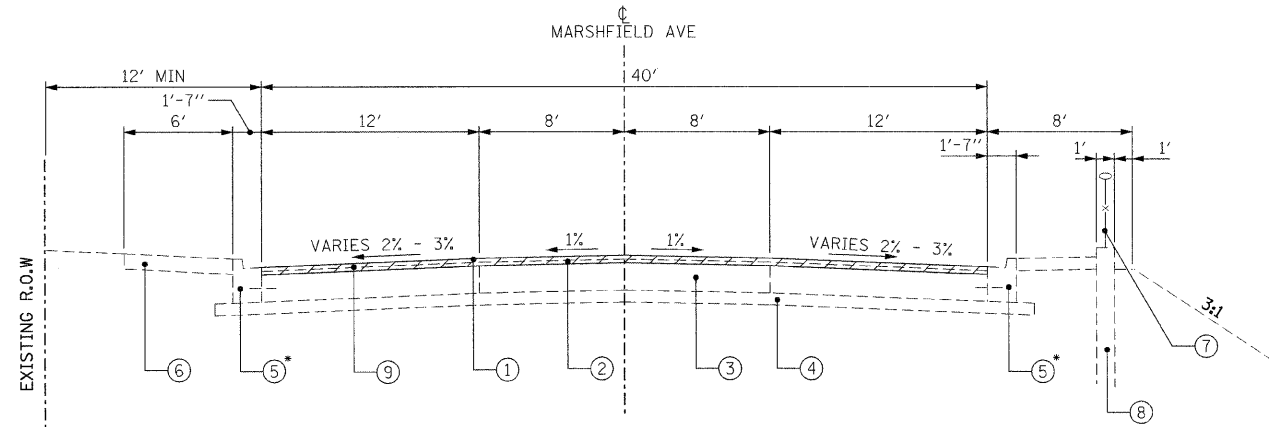
ILLINOIS DEPARTMENT OF TRANSPORTATION
111TH STREET OVER
F.A.I ROUTE 57 (INTERSTATE 57)

**TYPICAL SECTIONS
111TH STREET**

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

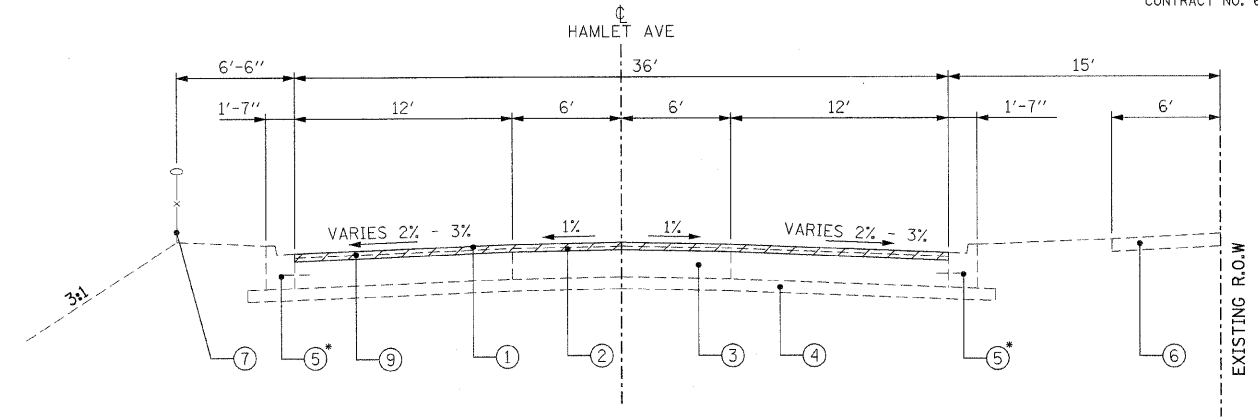
TENG TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
225 N. MICHIGAN AVE. CHICAGO, IL 60601
TELEPHONE: 312/616-0000

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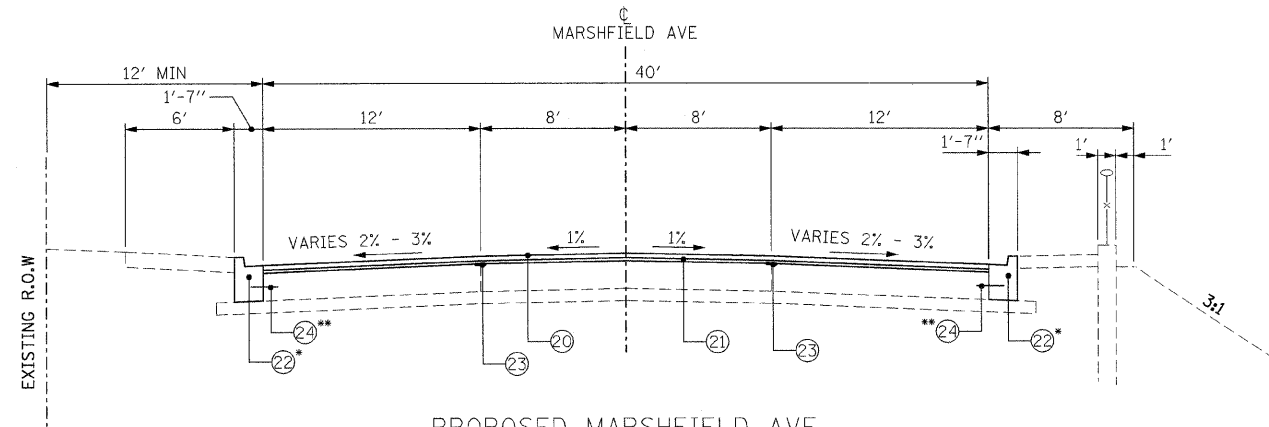
EXISTING MARSHFIELD AVE

* REMOVE AND REPLACE PER SCHEDULE



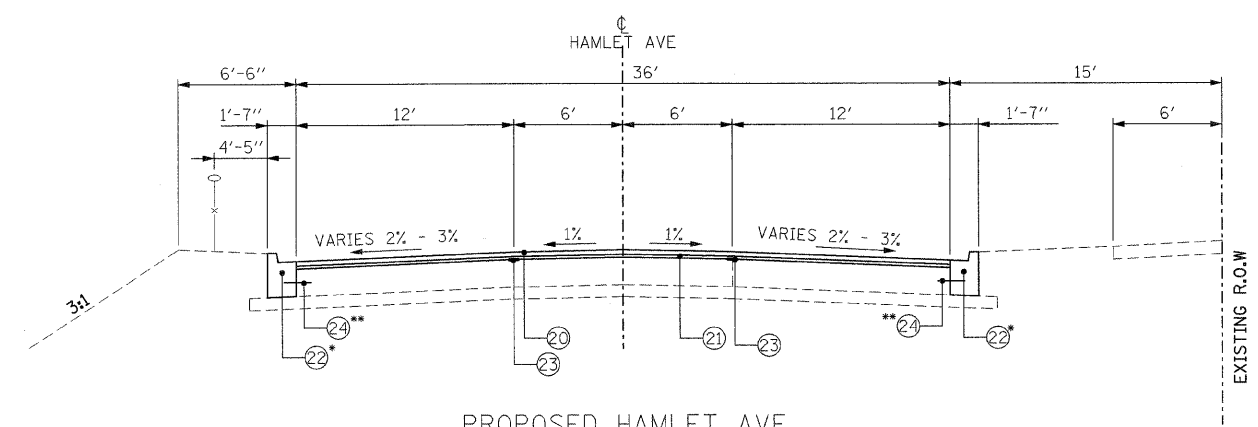
EXISTING HAMLET AVE

* 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 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")
- ⑩ CONCRETE MEDIAN (CORRUGATED & RAISED)

PROPOSED LEGEND = INCLUDED IN THE COST OF

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

\TSC002D.DGN, \TTC000WADJDN, \TSC00P-K.DGN
 H6-2009, H4-552
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63
 HECHTBR

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	LOCATION	SQ YD
10+78.99	10+85.25	591.8	ALONG CENTERLINE OF 111TH ST	65.8
13+11.82	13+22.25	667.3	ALONG CENTERLINE OF 111TH ST	74.1
TOTAL= 140				

BRIDGE APPROACH PAVEMENT (SPECIAL)				
FROM STATION	TO STATION	SQ FT	LOCATION	SQ YD
10+85.25	11+05.25	1339.4	ALONG CENTERLINE OF 111TH ST	148.8
12+81.82	13+11.82	1979.8	ALONG CENTERLINE OF 111TH ST	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	LOCATION	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
TENC & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE., CHICAGO, IL 60601
TELEPHONE: 312/467-0000

SIDEWALK REMOVAL				
FROM STATION	TO STATION	SQ FT	LOCATION	SQ FT
10+15.74	10+06.46	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

APPROACH SLAB REMOVAL				
FROM STATION	TO STATION	SQ FT		SQ YD
10+85.25	11+05.25	1366.7		151.9
12+81.82	13+11.38	1942.4		215.8
TOTAL=				368

STRIP REFLECTIVE CRACK CONTROL TREATMENT				
FROM STATION	TO STATION	SQ FT	LOCATION	FOOT
9+96.26	11+09.05	112.8	MARSHFIELD AVE	225.6
0+00.00	0+43.24	43.2	RAMP D	86.5
9+00.00	11+23.13	223.1	HAMLET AVE	446.3
0+00.00	0+42.23	42.2	RAMP C	84.5
TOTAL=				843

TELESCOPING STEEL SIGN SUPPORT				
LOCATION	STATION	OFFSET		FOOT
MARSHFIELD	10+44.00	RT		13.0
RAMP C	0+03.00	LT		13.0
RAMP D	1+25	RT		16.50
TOTAL=				43

BASE FOR TELESCOPING SIGN SUPPORT				
LOCATION	STATION	OFFSET		FOOT
MARSHFIELD	10+44.00	RT		1.0
RAMP C	0+03.00	LT		1.0
TOTAL=				2

THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS				
LOCATION	DESCRIPTION	SQ FT	SIZE	SQ FT
SB RAMP D	RT THRU ARROW	14.70	SMALL	14.7
SB RAMP D	THRU ARROW	6.50	SMALL	6.5
SB RAMP D	LEFT ARROW	8.80	SMALL	8.8
HAMLET AVE	LT ARROW ONLY	20.60	SMALL	20.6
HAMLET AVE	RT ARROW ONLY	20.60	SMALL	20.6
TOTAL=				71

THERMOPLASTIC PAVEMENT MARKING - LINE 4"						
LOCATION	FROM STATION	TO STATION	SKIP DASH	COLOR	LANES	FOOT
RAMP D	0+16.66	0+43.24	N/A	WHITE		26.6
RAMP D	0+27.95	0+43.24	N/A	YELLOW		15.3
RAMP C	0+00.00	0+42.23	N/A	YELLOW		42.2
RAMP C	0+31.81	0+42.23	N/A	WHITE		10.4
HAMLET AVE	9+00.00	10+31.87	N/A	YELLOW		131.9
MARSHFIELD AVE	10+30.77	10+47.66	N/A	YELLOW		16.9
MEDIAN W. R.R.	8+83.12	9+70.60	N/A	YELLOW		513.9
MEDIAN E. R.R.	9+93.51	10+20.08	N/A	YELLOW		137.6
MEDIAN HAMLET/111TH	14+14.24	15+93.00	N/A	YELLOW		711.6
HAMLET AVE	9+00.00	9+40.00	6'-18'	WHITE	2.00	20.0
RAILROAD DIAGONALS				WHITE		230.0
TOTAL=						1856

THERMOPLASTIC PAVEMENT MARKING - LINE 6"					
LOCATION	FROM STATION	TO STATION	FOOT	LANES	FOOT
RAMP D	0+22.28	0+43.24	21.0	2.0	41.9
HAMLET AVE	9+40.00	10+37.13	97.1	2.0	194.3
CROSSWALK MARSH/111TH			385.2		385.2
CROSSWALK HAMLET/112TH			103.6		103.6
TOTAL=					725

THERMOPLASTIC PAVEMENT MARKING - LINE 12"		
LOCATION	FOOT	
MEDIAN DIAGONALS MARSHFIELD/111TH	70.0	
MEDIAN DIAGONALS HAMLET/111TH	80.0	
CROSSWALK HAMLET/111TH	234.0	
RAILROAD STRIPE	18.0	
TOTAL=		402

TEMPORARY PAVEMENT MARKING- LETTERS AND SYMBOLS				
LOCATION	DESCRIPTION	SQ FT	LANES	SQ FT
WB 111TH AT HAMLET	RT TURN ARROW	15.2	2.0	30.4
EB 111TH AT MARSHFIELD AVE	RT TURN ARROW	15.2	2.0	30.4
TOTAL=				61

TEMPORARY PAVEMENT MARKING - LINE 4"		
LOCATION	FOOT	
MARSHFIELD RD NEXT TO TEMPORARY BARRIER WALL	272.0	
HAMLET AVE NEXT TO TEMPORARY BARRIER WALL	230.0	
TOTAL=		502

TEMPORARY PAVEMENT MARKING - LINE 6"			
FROM STATION	TO STATION	LOCATION	FOOT
14+14.55	15+72.98	WB 111TH	158.4
8+15.02	9+35.56	EB 111TH	120.5
		MARSHFIELD RD	270.0
		CONCRETE BARRIER WALL	270.0
		OUTSIDE SB I-57	270.0
		CONCRETE BARRIER WALL	290.0
		INSIDE SB I-57	270.0
		CONCRETE BARRIER WALL	270.0
		INSIDE NB I-57	270.0
		CONCRETE BARRIER WALL	270.0
		OUTSIDE NB I-57	270.0
		CONCRETE BARRIER WALL	230.0
		HAMELET AVE	230.0
TOTAL=			1879

WORK ZONE PAVEMENT MARKING REMOVAL		
PAY ITEM #	PAY ITEM	SQ FT
70300100	SHORT-TERM PAVEMENT MARKING	73.9
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	61.0
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	165.7
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	939.5
TOTAL=		1240

TEMPORARY CONCRETE BARRIER		
LOCATION	FOOT	
MARSHFIELD RD	270.0	
OUTSIDE SB I-57	270.0	
INSIDE SB I-57	290.0	
INSIDE NB I-57	270.0	
OUTSIDE NB I-57	270.0	
HAMELET AVE	230.0	
TOTAL=		1600

THERMOPLASTIC PAVEMENT MARKING - LINE 24"		
LOCATION	STATION	FOOT
SB RAMP D	0+46.41	40.0
NB HAMLET AVE	16+03.92	41.0
EB 111TH	9+40.05	17.5
WB 111TH	10+17.21	17.5
WB 111TH	14+30.05	13.5
TOTAL=		130

PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LETTERS AND SYMBOLS					
LOCATION	DESCRIPTION	SQ FT	SIZE	LANES	SQ FT
WB 111TH BRIDGE	R.R. CROSSING	61.2	LARGE	1	61.2
EB 111TH STREET	R.R. CROSSING	61.2	LARGE	1	61.2
WB 111TH BRIDGE	LT ARROW ONLY	20.6	SMALL	2	41.2
EB 111TH BRIDGE	LT ARROW ONLY	20.6	SMALL	2	41.2
TOTAL=					205

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: 312/416-0000

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

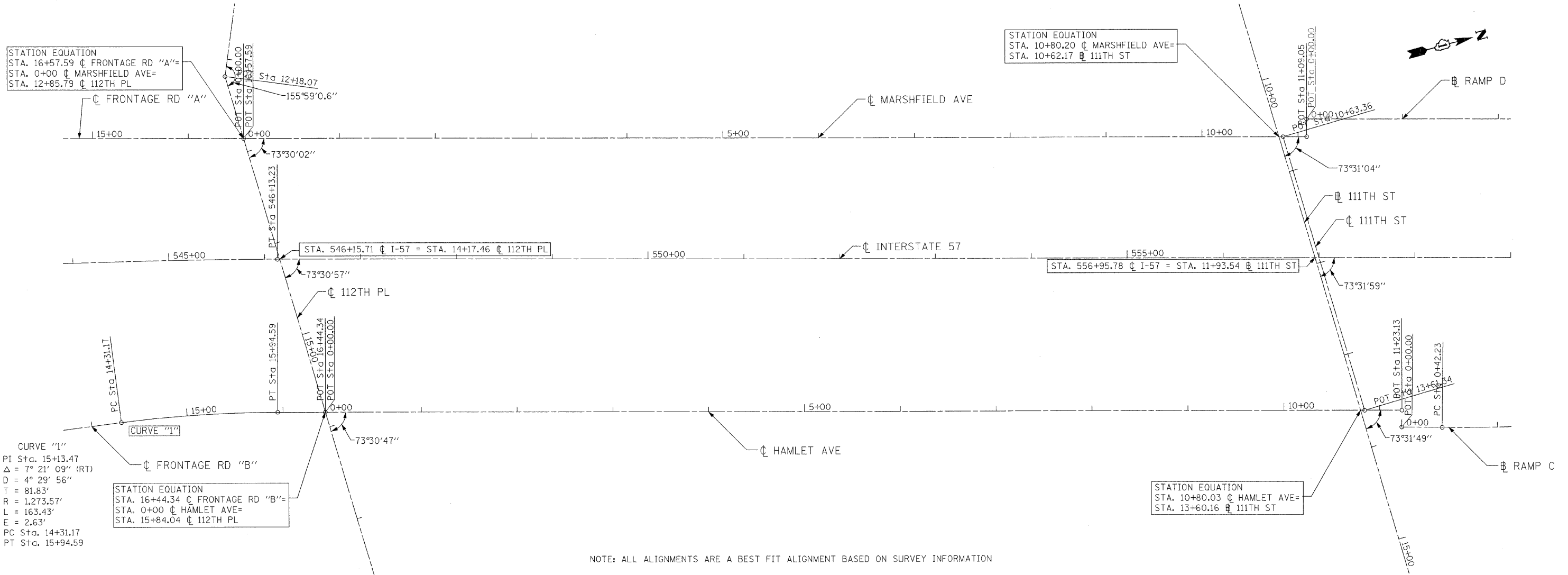
TENG

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

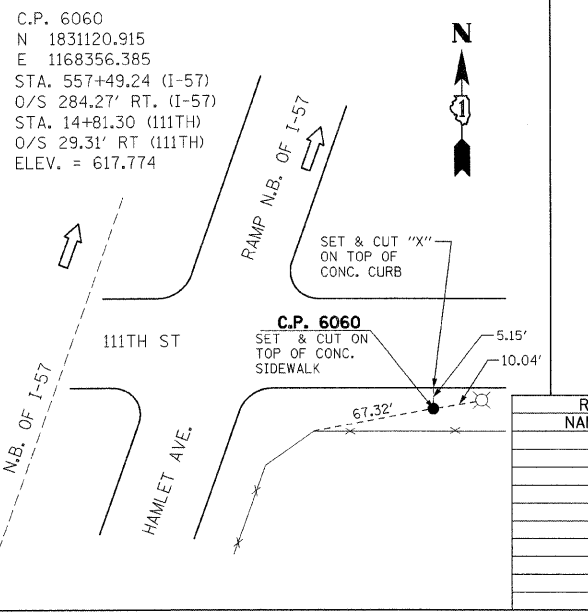
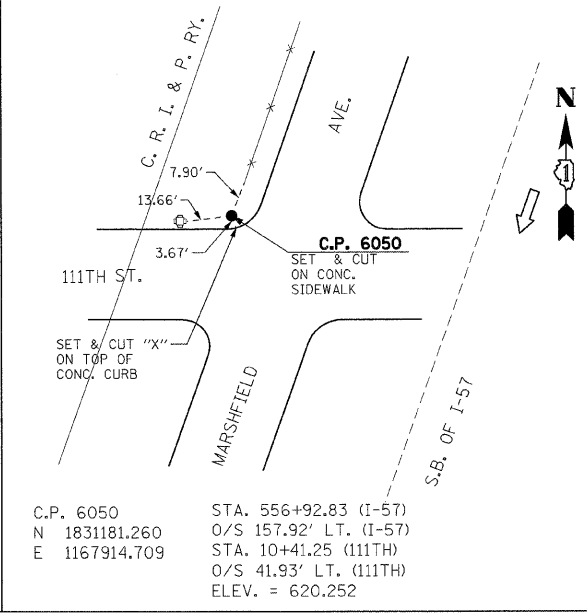
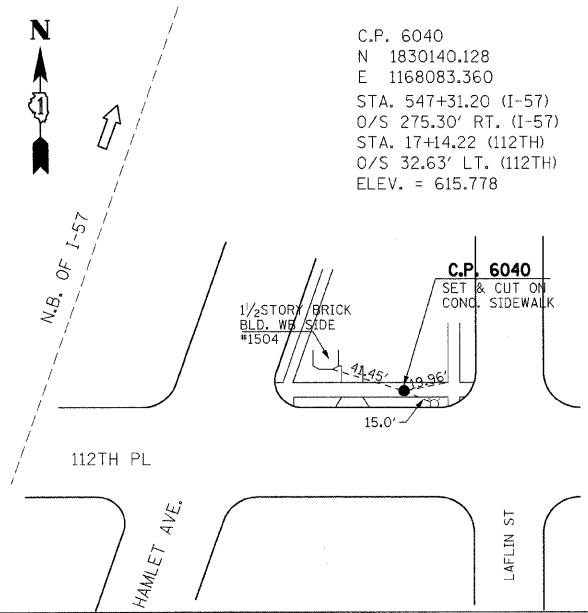
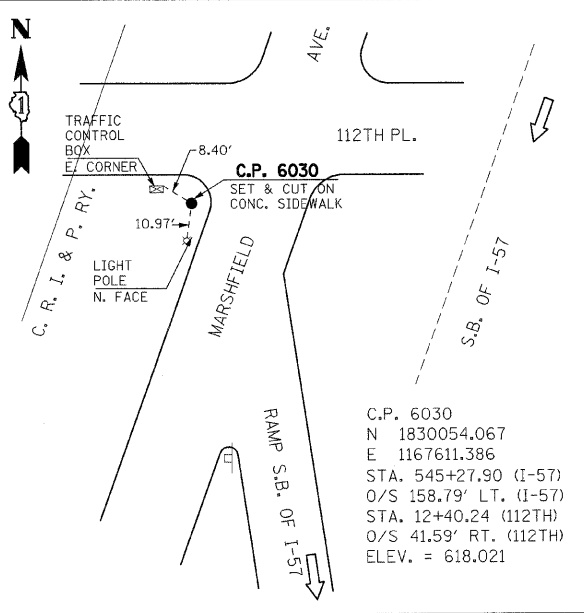
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HAMLET AVE AND MARSHFIELD AVE TIE DATA

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



HECHTBR
 1-6-2009, 14:42:49
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- #### BENCHMARK DESCRIPTIONS
- BENCH MARK LOCATED AT THE INTERSECTION OF WEST 112TH PLACE, WEST MONTEREY 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.

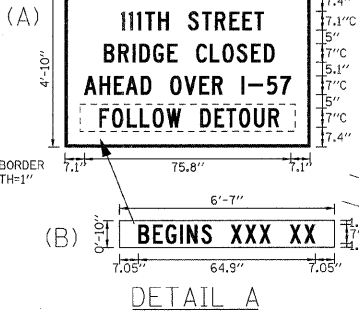
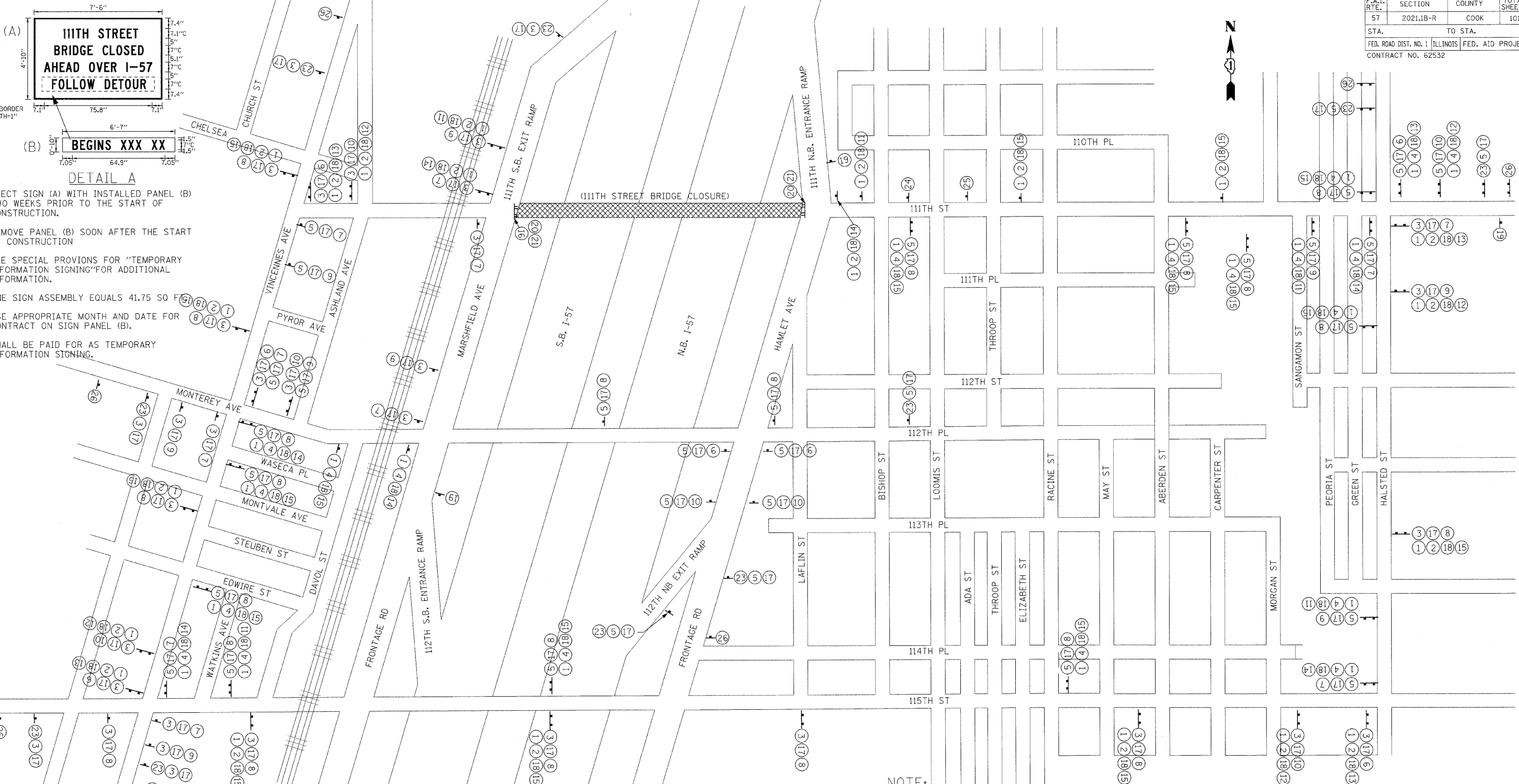
REVISIONS	
NAME	DATE

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

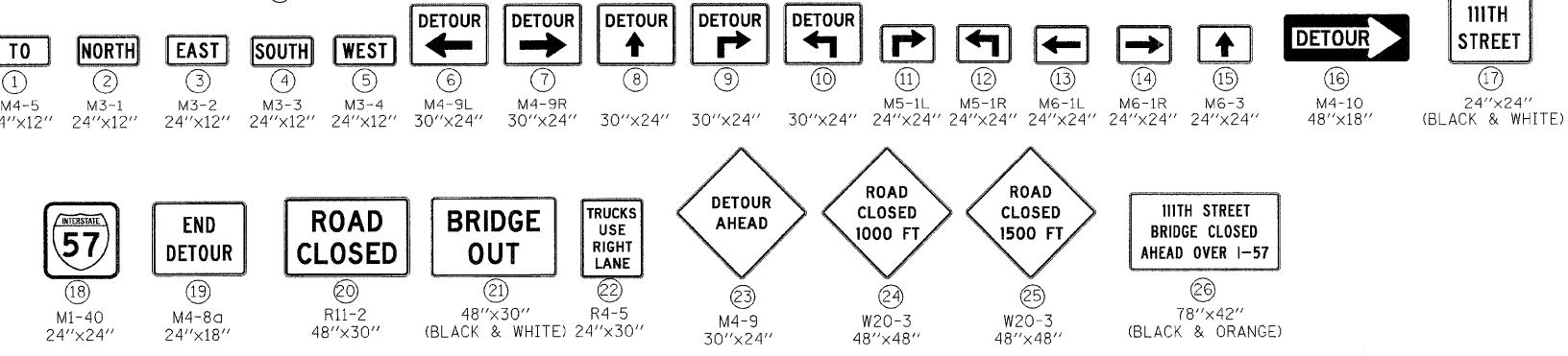
ALIGNMENT & TIES

SCALE: 1"=50'
 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



- ERECT SIGN (A) WITH INSTALLED PANEL (B) TWO WEEKS PRIOR TO THE START OF CONSTRUCTION.
- REMOVE PANEL (B) SOON AFTER THE START OF CONSTRUCTION
- SEE SPECIAL PROVISIONS FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
- ONE SIGN ASSEMBLY EQUALS 41.75 SQ FT
- USE APPROPRIATE MONTH AND DATE FOR CONTRACT ON SIGN PANEL (B).
- SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.



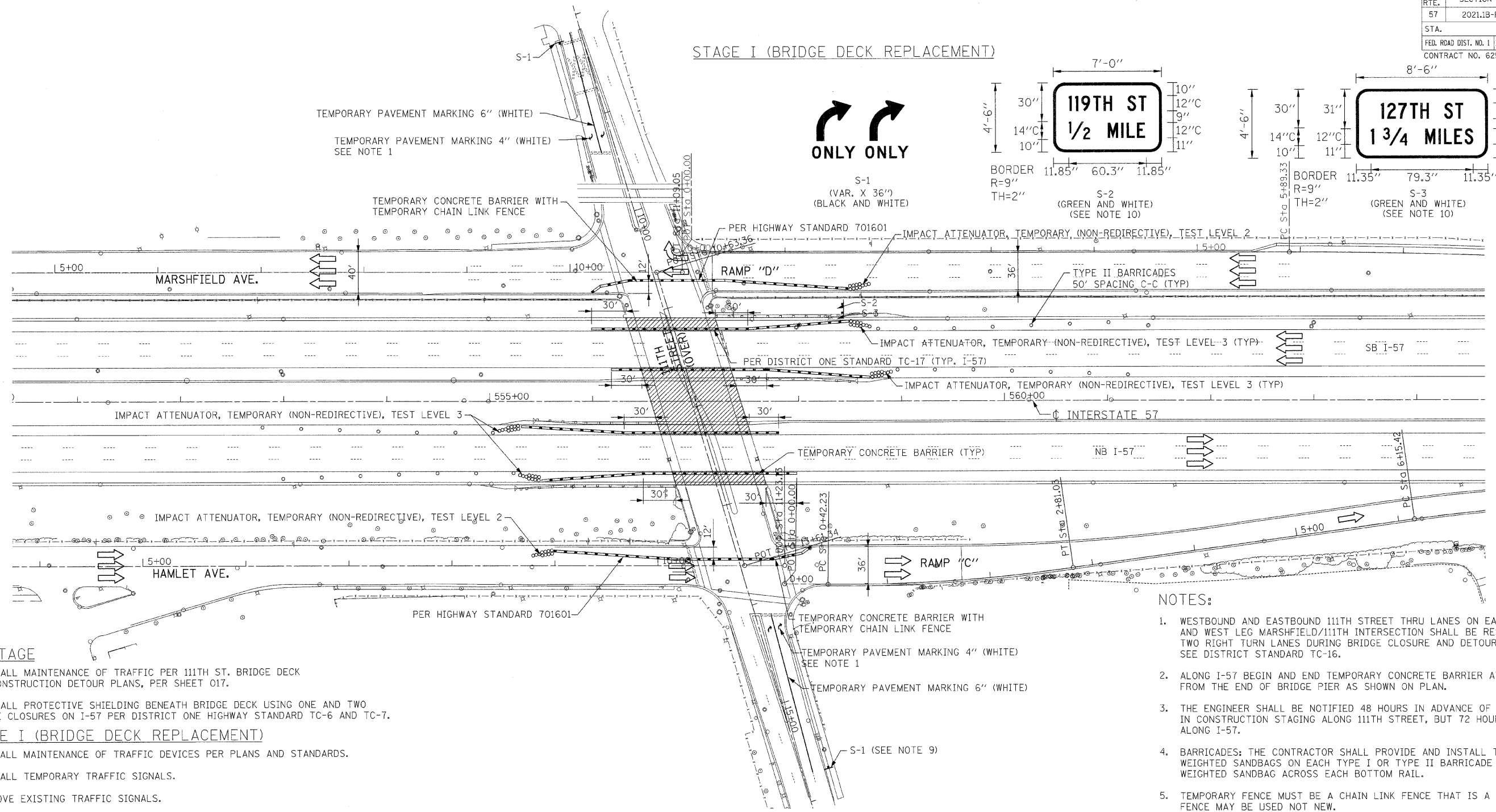
- NOTE:**
- DISTANCE BETWEEN SIGN PLACEMENT SHALL BE PER THE FINAL APPROVAL OF THE ENGINEER.
 - TWO "WARNING" SIGNS IN A SEQUENCE SHALL HAVE A MONODIRECTIONAL LIGHT.
 - SIGN SEQUENCES READ LEFT TO RIGHT REPRESENT TOP TO BOTTOM STACKING. IF TWO STACKS OF DETOURS SIGNS ARE TO BE MOUNTED AT THE SAME LOCATION THE TOP SIGN SEQUENCE SHALL BE PLACED ON THE LEFT.
 - THE COST OF DETOUR SIGNING WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR MAINTENANCE OF TRAFFIC UNLESS OTHERWISE NOTED.
 - SIGN SHALL BE FURNISHED AND INSTALLED TWO (2) WEEKS PRIOR TO CLOSING 111TH STREET BRIDGE.

- LEGEND**
- TYPE III BARRICADE WITH TWO FLASHING LIGHTS
 - TRAFFIC SIGN (AS NOTED)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 111TH STREET OVER
 F.A.I. ROUTE 57 (INTERSTATE 57)
111TH ST BRIDGE DECK RECONSTRUCTION SUGGESTED DETOUR PLAN
 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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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.

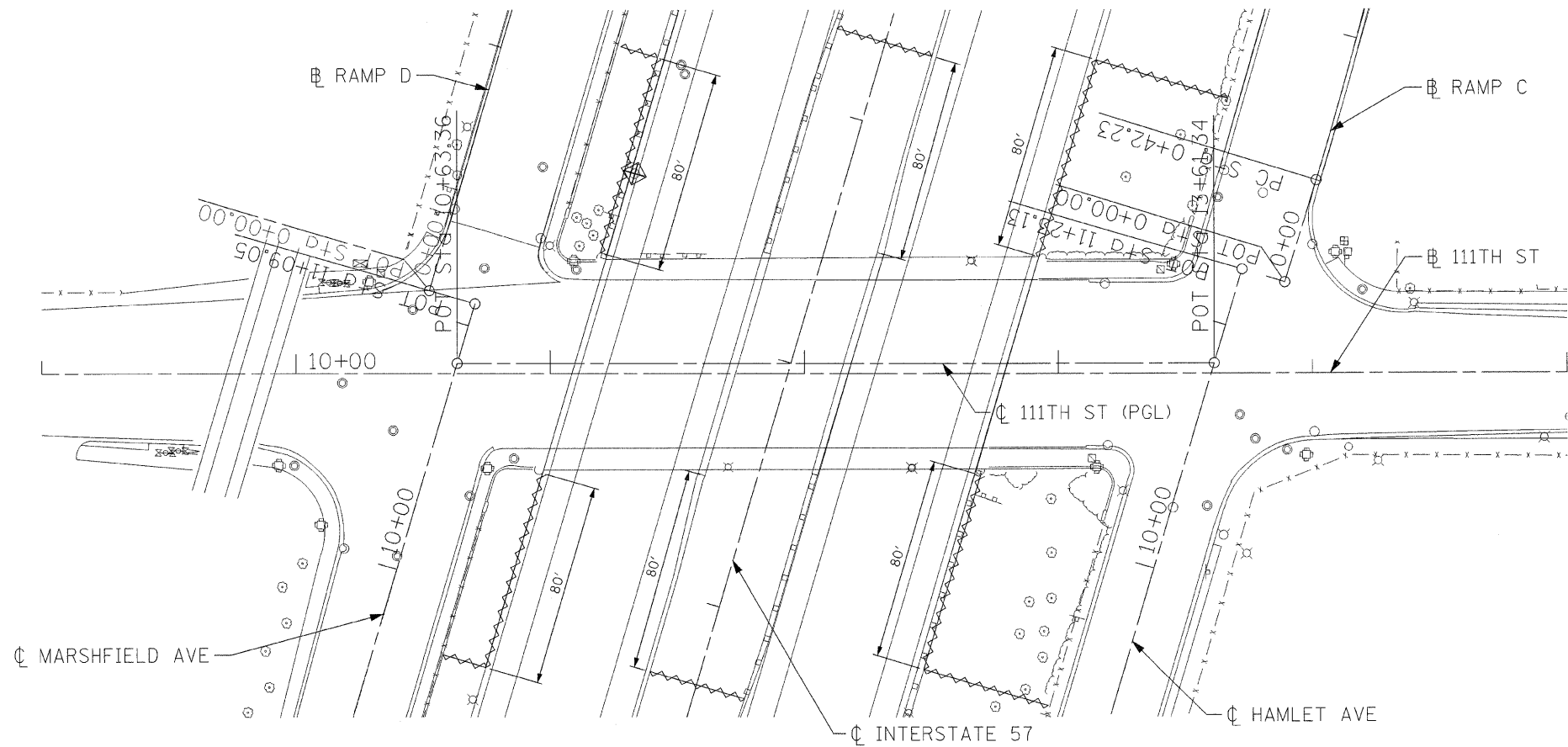
9. THE COST OF THE S-1 WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR MAINTENANCE OF TRAFFIC.
10. SIGN SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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/P.L.L.C.
 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	019
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62532				



GENERAL NOTES FOR EROSION CONTROL

-PRIOR TO START OF CONSTRUCTION IN ANY AREA INSTALL PERIMETER EROSION BARRIER AT LOCATIONS SHOWN ON THE PLANS.

-THE PERIMETER EROSION BARRIER SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED WITH VEGETATION. AT THIS TIME, THE PERIMETER EROSION BARRIER SHALL BE REMOVED AND AREAS DAMAGED BY THE FENCE INSTALLATION RESTORED.

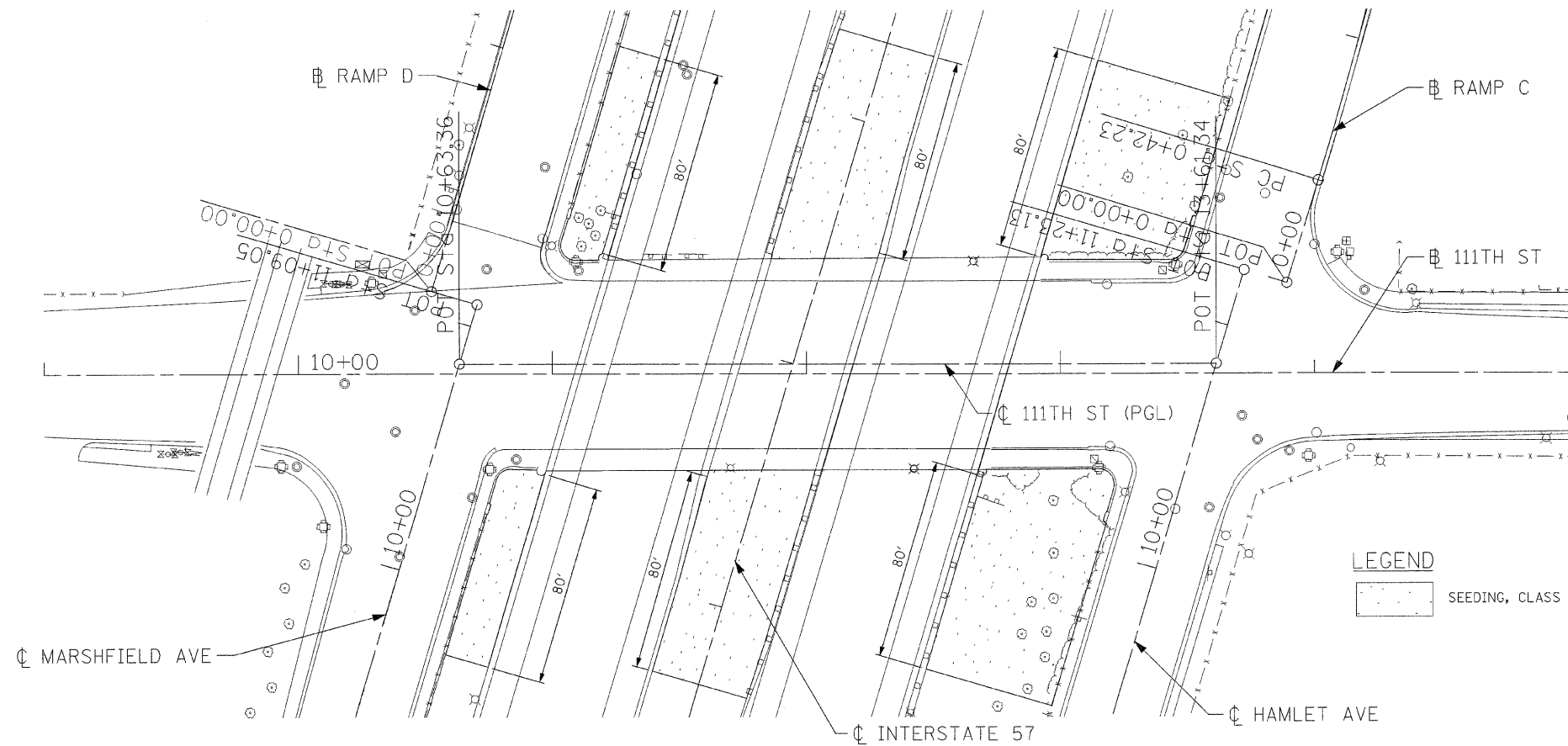
-ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. ALL DISTURBED SOIL AREAS SHALL BE PERMANENTLY STABILIZED.

-ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR INSPECTION AND REPAIR DURING CONSTRUCTION.

LEGEND

- PERIMETER EROSION BARRIER
- INLET & PIPE PROTECTION

**EROSION CONTROL
LANDSCAPING**



- LEGEND**
- SEEDING, CLASS 2A

REVISIONS	
NAME	DATE

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

**EROSION CONTROL
AND LANDSCAPING**

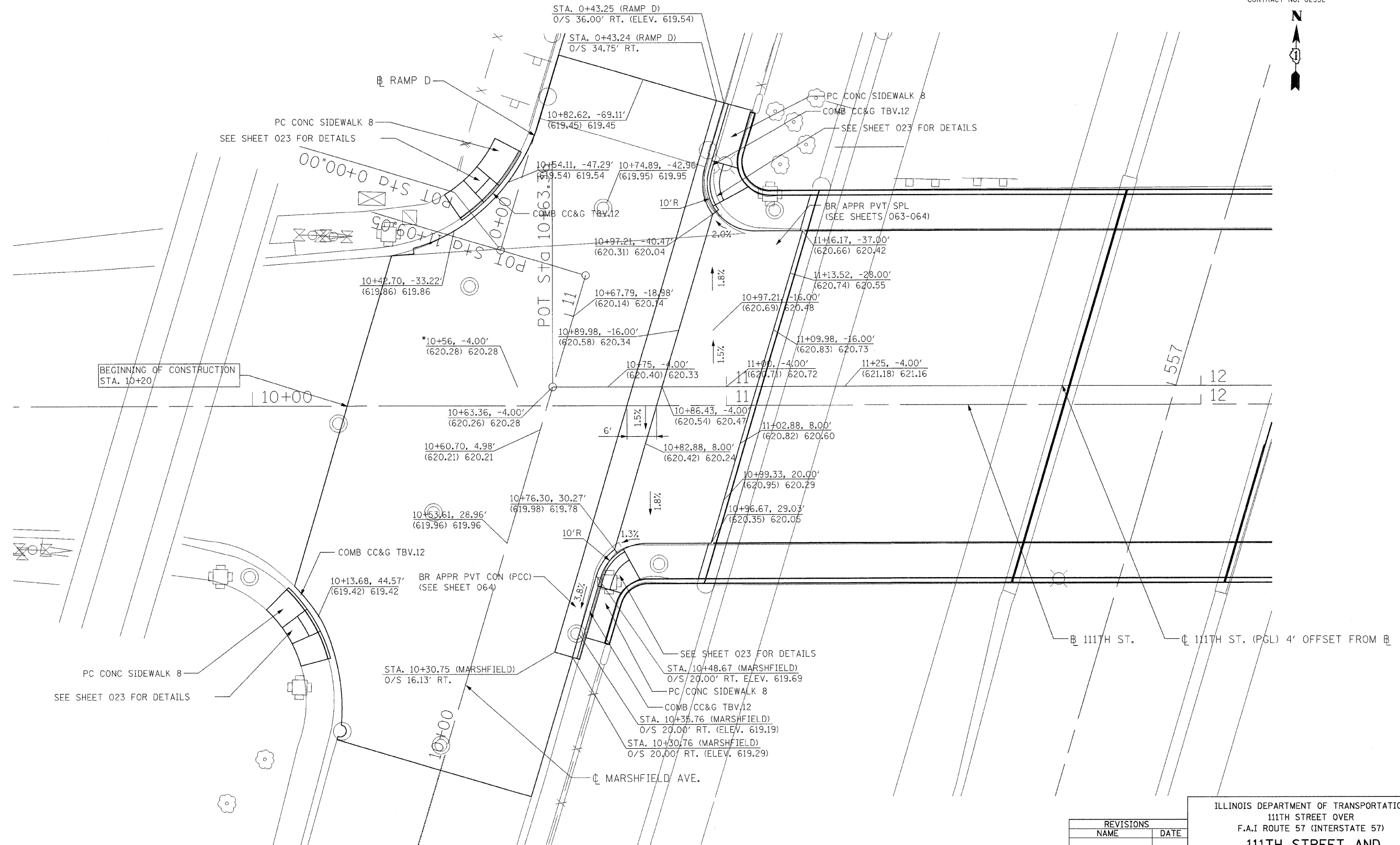
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DATE: 01/16/09

DRAWN BY: BRH
CHECKED BY: ACL

TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE., CHICAGO, IL 60601
TELEPHONE: 312/654-0000

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021JB-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

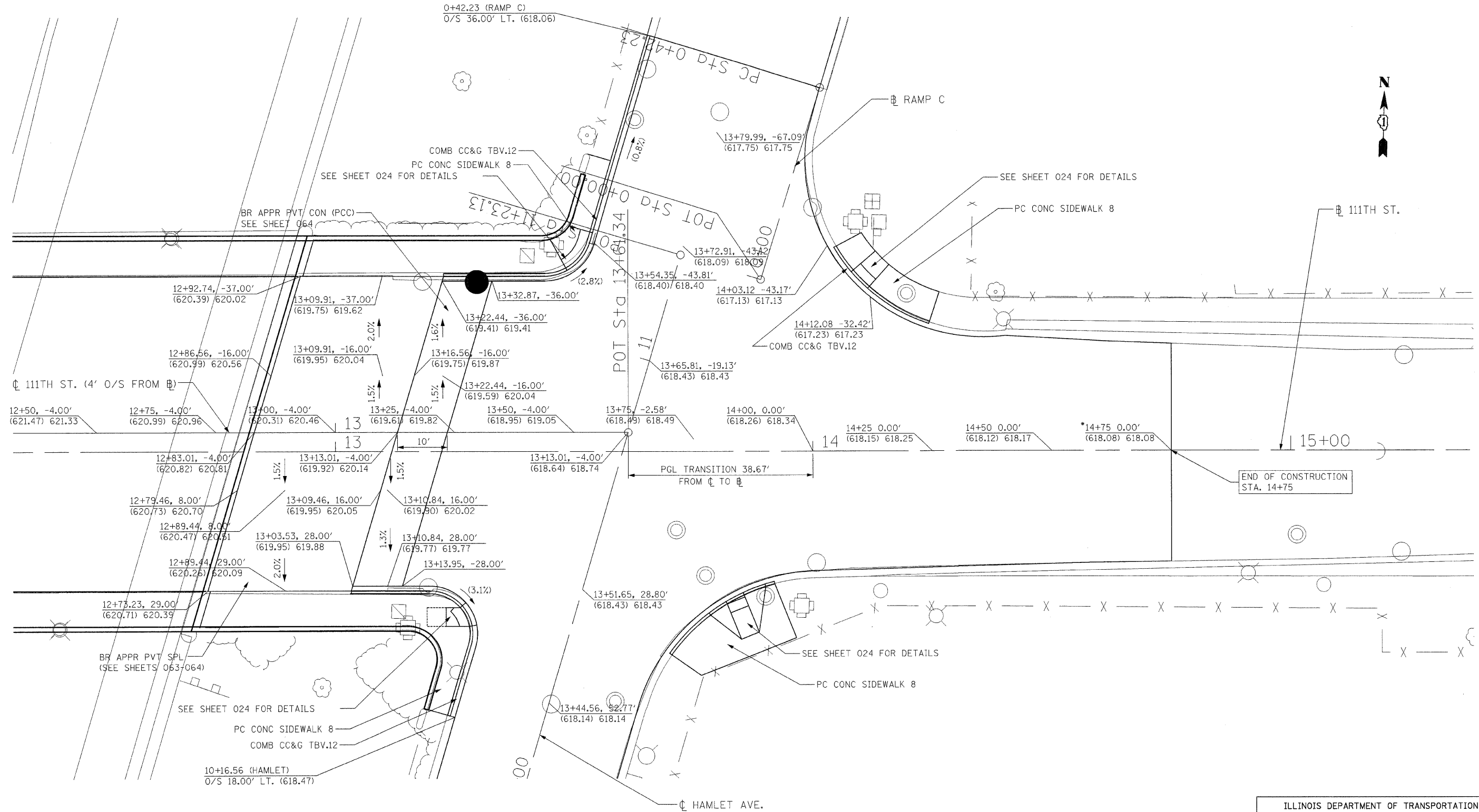
STATION, OFFSET
(EXIST. ELEV.) PROP. ELEV.

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 @ 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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ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE., CHICAGO, IL 60601
TELEPHONE: 312/616-0000

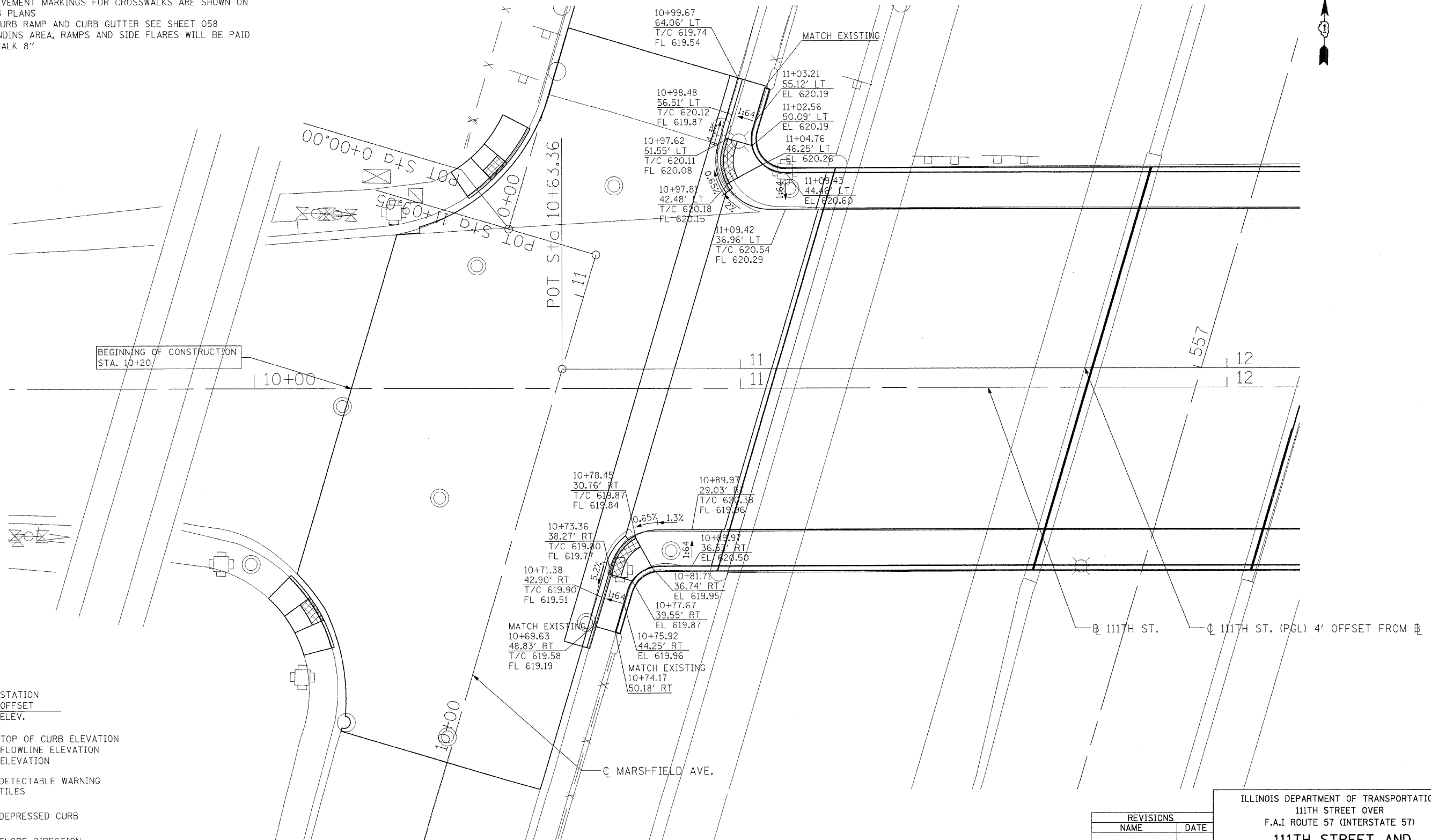
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.1B-R	COOK	101	023
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62532				



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"



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 SLOPE IN PERCENT
- 1:64 SLOPE DIRECTION SLOPE IN RISE:RUN

PROPOSED ADA RAMP 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

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 111TH STREET OVER
 F.A.I. ROUTE 57 (INTERSTATE 57)
111TH STREET AND MARSHFIELD AVE
ADA SIDEWALK DETAILS
 SCALE: 1"=10' DRAWN BY: BRH
 DATE: 01/16/09 CHECKED BY: ACL

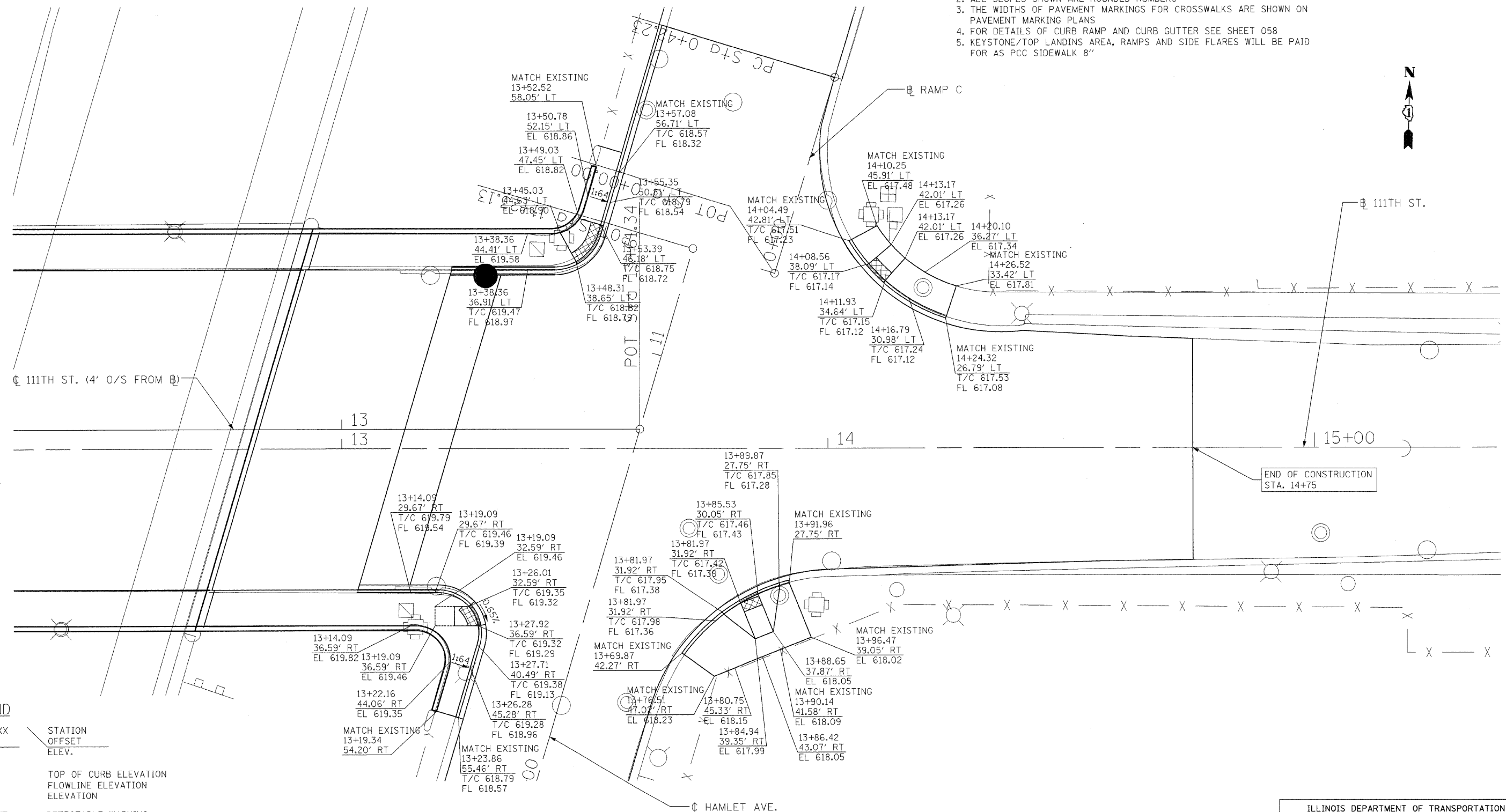


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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021JB-R	COOK	101	024
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62532				

NOTES:

- FOR CURB RAMP AND SIDEWALK DETAILS AND GENERAL NOTES SEE SHEETS 059 TO 061
- ALL SLOPES SHOWN ARE ROUNDED NUMBERS
- THE WIDTHS OF PAVEMENT MARKINGS FOR CROSSWALKS ARE SHOWN ON PAVEMENT MARKING PLANS
- FOR DETAILS OF CURB RAMP AND CURB GUTTER SEE SHEET 058
- 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
- SLOPE IN PERCENT
- 1:64 SLOPE DIRECTION
- SLOPE IN RISE:RUN

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

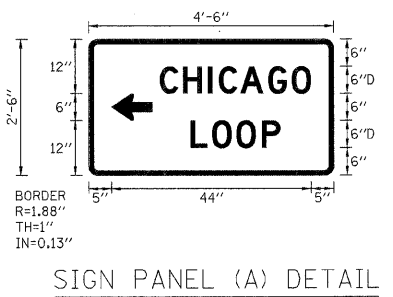
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.1B-R	COOK	101	025
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62532				

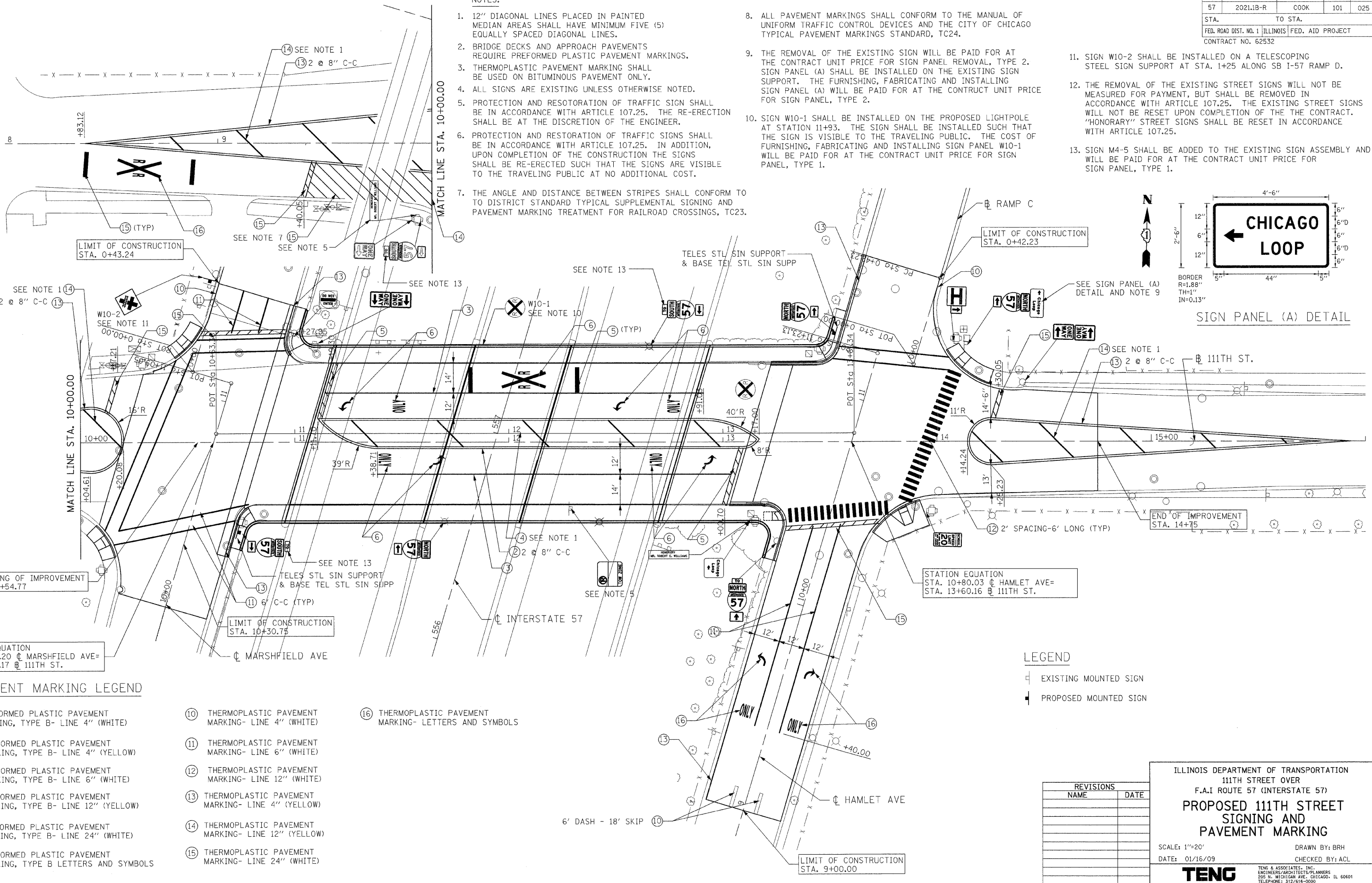
NOTES:

- 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.



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60



PAVEMENT MARKING LEGEND

- | | |
|--|---|
| ① PREFORMED PLASTIC PAVEMENT MARKING, TYPE B- LINE 4" (WHITE) | ⑩ THERMOPLASTIC PAVEMENT MARKING- LINE 4" (WHITE) |
| 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) |

⑯ THERMOPLASTIC PAVEMENT MARKING- LETTERS AND SYMBOLS

- 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

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

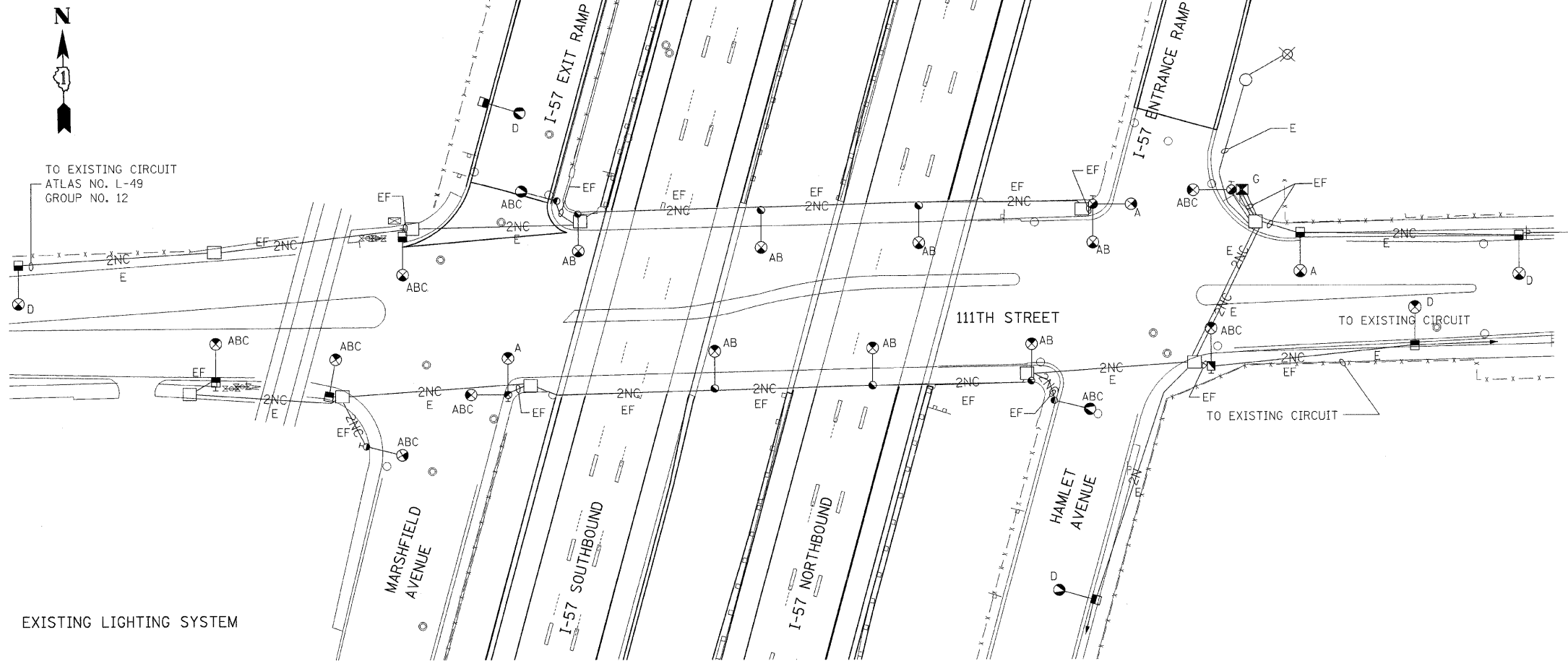
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ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE. CHICAGO, IL 60601
TELEPHONE: 312/616-0000

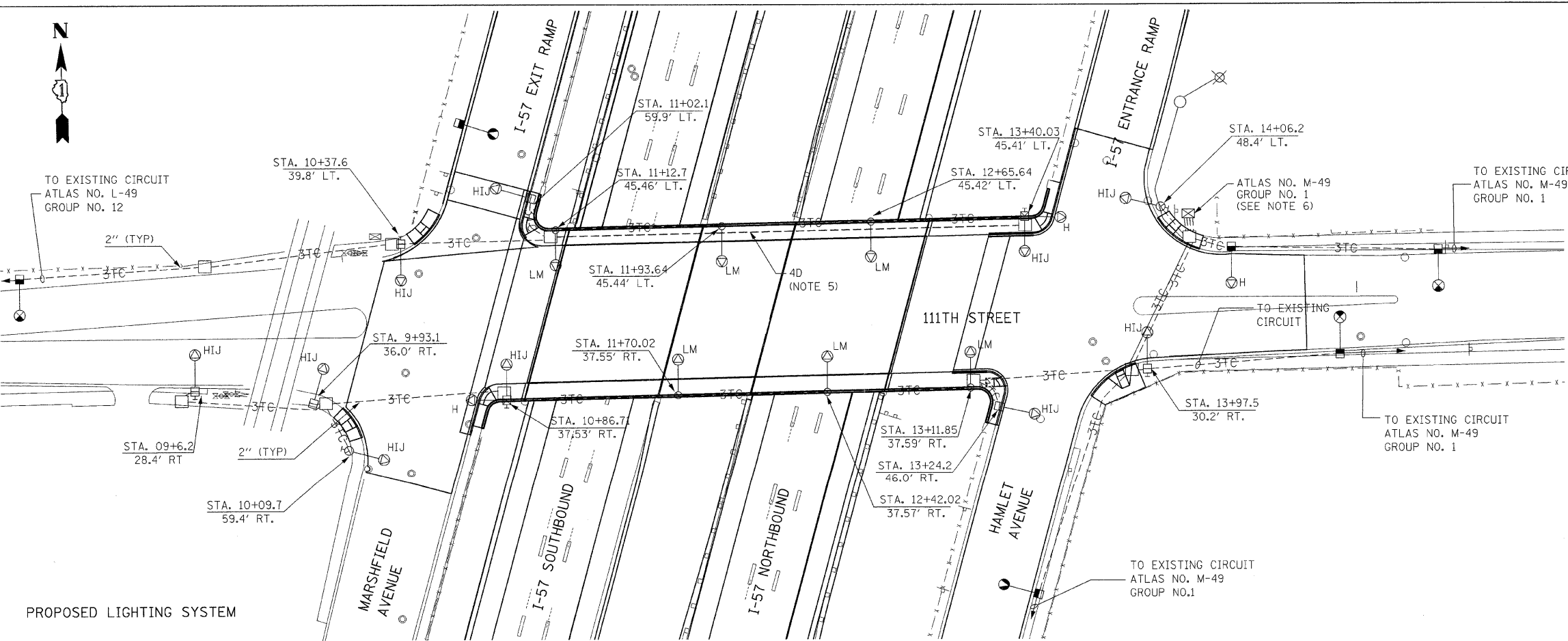
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REMOVAL NOTES

- A - REMOVE H.P.S.V. LUMINAIRE AND MAST ARM
- B - REMOVE POLE, CITY STEEL
- C - REMOVE FOUNDATION
- D - EXISTING POLE TO REMAIN
- E - EXISTING CABLE TO BE REMOVED
- F - EXISTING CONDUIT TO BE REMOVED
- G - EXISTING CONTROLLER AND FOUNDATION TO BE REMOVED



EXISTING LIGHTING SYSTEM



PROPOSED LIGHTING SYSTEM

INSTALLATION NOTES

- H - INSTALL 400W H.P.S.V. LUMINAIRE AND 12' MAST ARM
- I - INSTALL POLE, CITY STEEL, ANCHOR BASE, SIZE AS INDICATED
- J - INSTALL NEW CONCRETE FOUNDATION
- K - CONDUIT ATTACHED TO STRUCTURE (NOTE 6)
- EM - CONDUIT EMBEDDED IN BARRIER WALL
- F - CONDUIT IN TRENCH
- L - INSTALL POLE CITY ALUMINUM, ANCHOR BASE, SIZE AS INDICATED
- M - INSTALL 400W HPSV LUMINAIRE & DAVIT ARM

NOTE:
FOR LEGEND AND NOTES REFER TO DRAWING NO. E-1.

REVISIONS	
NAME	DATE

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

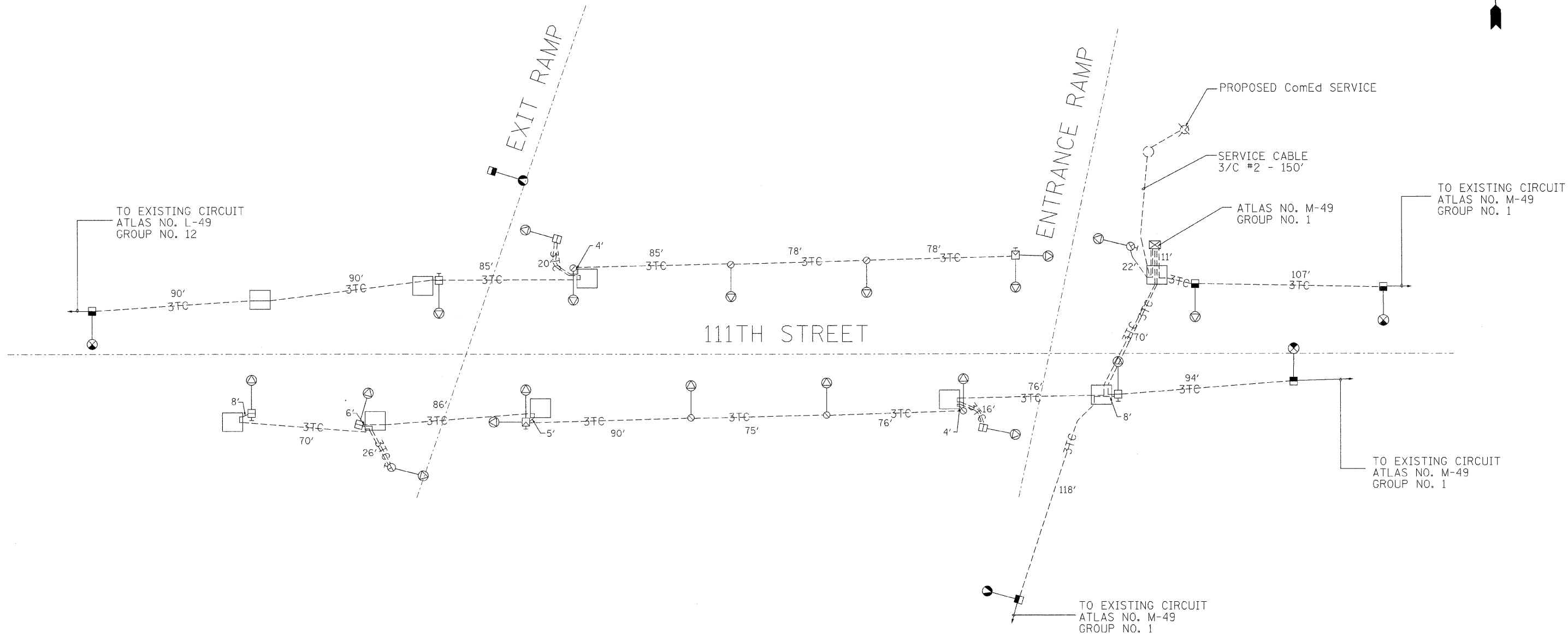
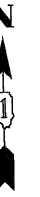
CITY OF CHICAGO
LIGHTING PLAN

SCALE: 1" = 30'
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62532				



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E-3

REVISIONS	
NAME	DATE

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

WIRING DIAGRAM

SCALE: NONE
 DATE: 01/16/09

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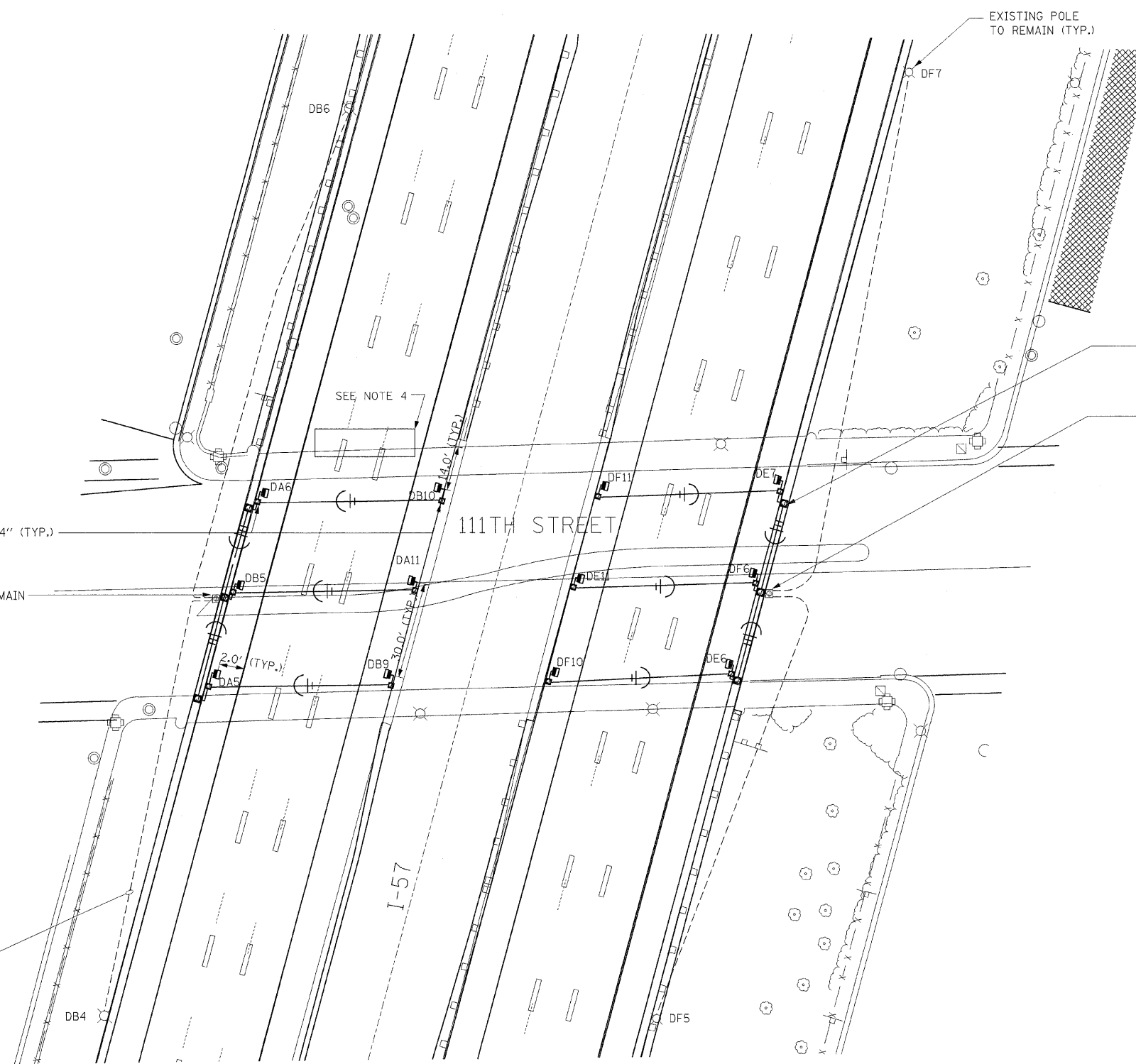
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 ENGINEERS/ARCHITECTS/PLANNERS
 205 N. MICHIGAN AVE., CHICAGO, IL 60601
 TELEPHONE: 312.915-2000

LEGEND

- UNDERPASS LUMINAIRE, 70W HPS
- ▣ JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, SIZE NOTED
- CONDUIT ATTACHED TO STRUCTURE, 1" DIA. UNLESS OTHERWISE NOTED.
- DENOTES PHASE CONDUCTORS (#10 AWG MIN.)
- DENOTES NEUTRAL CONDUCTOR
- DENOTES GROUND CONDUCTOR (#10 INSULATED.)

NOTES:

1. UNLESS OTHERWISE INDICATED, ALL ITEMS OF WORK SHOWN ON THESE PLANS ARE PROPOSED NEW ITEMS OF WORK.
2. THERE SHALL NOT BE ANY UNDERGROUND SPLICES.
3. EXISTING UNDERPASS LUMINAIRES SHALL BE TRANSFERRED TO STATE STOCK AFTER REMOVAL.
4. THE EXISTING ELECTRICAL CONNECTION TO THE BRIDGE MOUNT SIGN LUMINAIRE(S) SHALL BE TEMPORARILY DISCONNECTED BY THE CONTRACTOR PRIOR TO REMOVAL OF THE SIGN STRUCTURE, AND SHALL BE RE-CONNECTED BY THE CONTRACTOR UPON RE-ERECTION OF THE SIGN STRUCTURE AND SIGN PANEL. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF REMOVAL OF EXISTING CONCRETE DECK.



JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6"x6"x4" (TYP.)

EXISTING JUNCTION BOX TO REMAIN

EXISTING CABLE AND CONDUIT TO REMAIN (TYP.)

JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6" (TYP.)

EXISTING JUNCTION BOX TO REMAIN

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
CONDUIT ATTACHED TO STRUCTURE, 1" DIAMETER, RIGID GALVANIZED STEEL, PVC COATED	FOOT	820
JUNCTION BOX, STAINLESS STEEL, EMBEDDED IN STRUCTURE, 12"x10"x6"	EACH	6
JUNCTION BOX, STAINLESS STEEL, EMBEDDED IN STRUCTURE, 6"x6"x4"	EACH	12
ELECTRIC CABLE IN CONDUIT, 600V, (EPR-TYPE RHW) 1/C NO. 10	FOOT	2860
UNDERPASS LUMINAIRE, 70 WATT, HPS VAPOR, STAINLESS STEEL HOUSING	EACH	12
REMOVE EXISTING UNDERPASS LUMINAIRE	EACH	12
MAINTENANCE OF LIGHTING SYSTEM	CAL MO	8
PROTECT AND MAINTAIN EXISTING UNDERPASS LUMINAIRE	L SUM	1

REVISIONS	
NAME	DATE

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

IDOT UNDERPASS LIGHTING PLAN

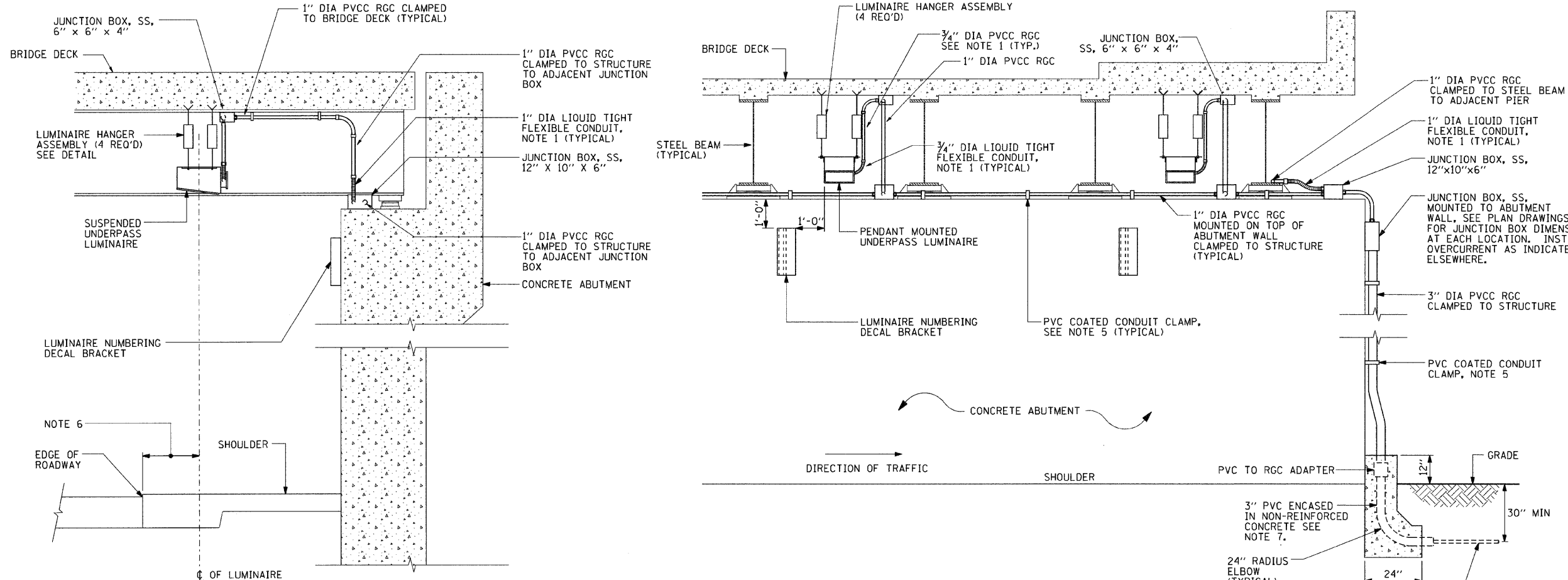
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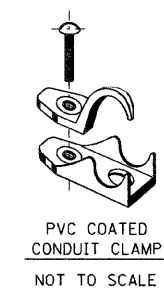
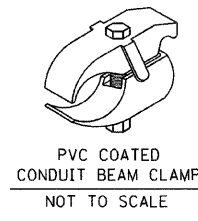
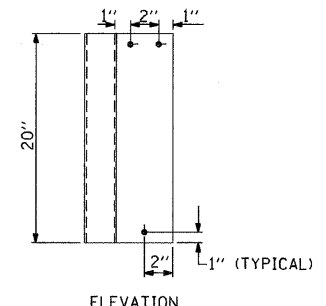
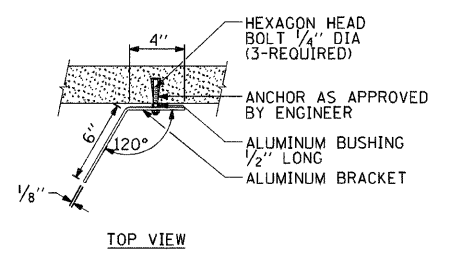
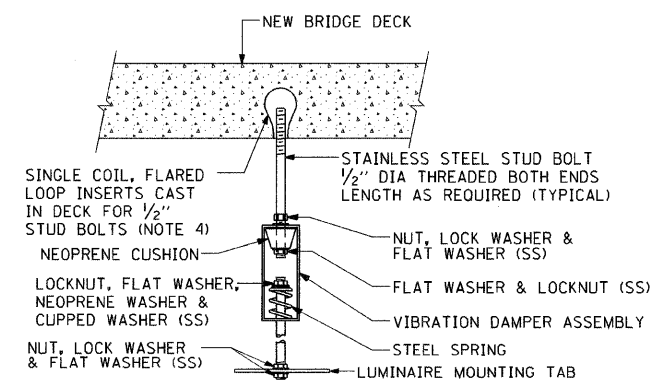
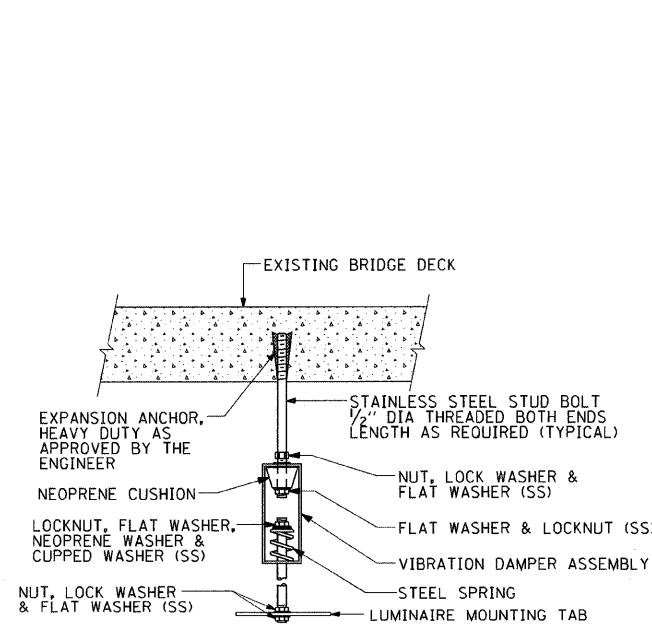
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ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE., CHICAGO, IL 60601
TELEPHONE: 312/816-0000

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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

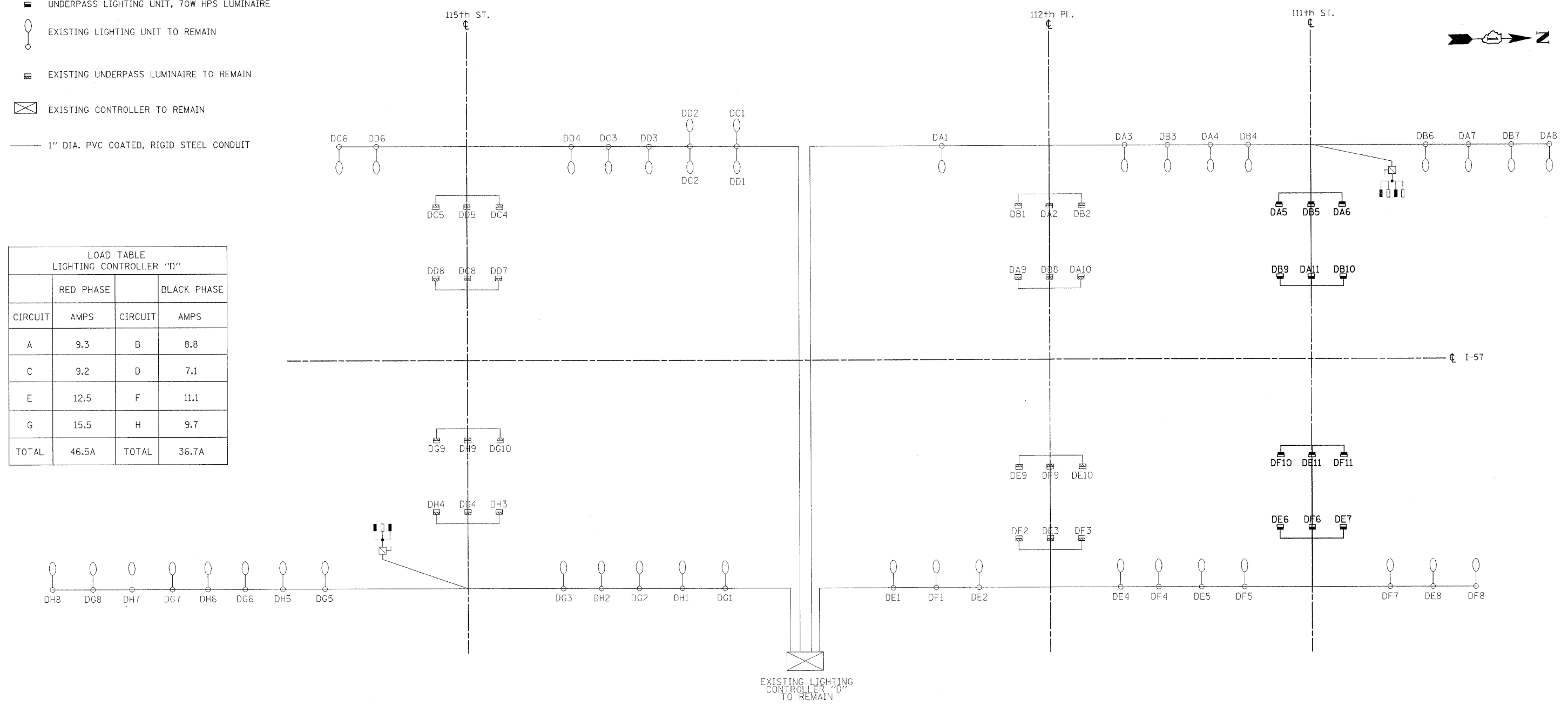
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- LEGEND:**
- UNDERPASS LIGHTING UNIT, 70W HPS LUMINAIRE
 - EXISTING LIGHTING UNIT TO REMAIN
 - EXISTING UNDERPASS LUMINAIRE TO REMAIN
 - EXISTING CONTROLLER TO REMAIN
 - 1" DIA. PVC COATED, RIGID STEEL CONDUIT

	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

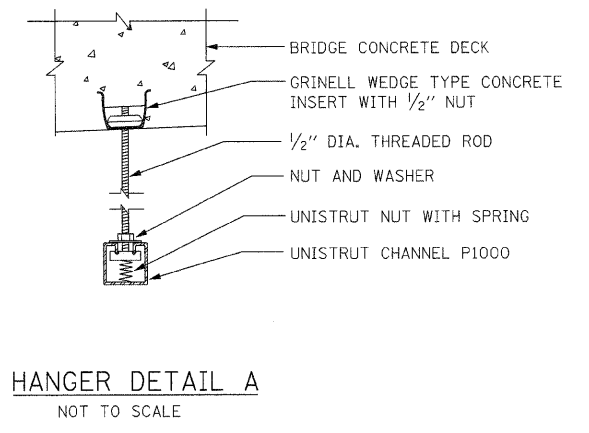
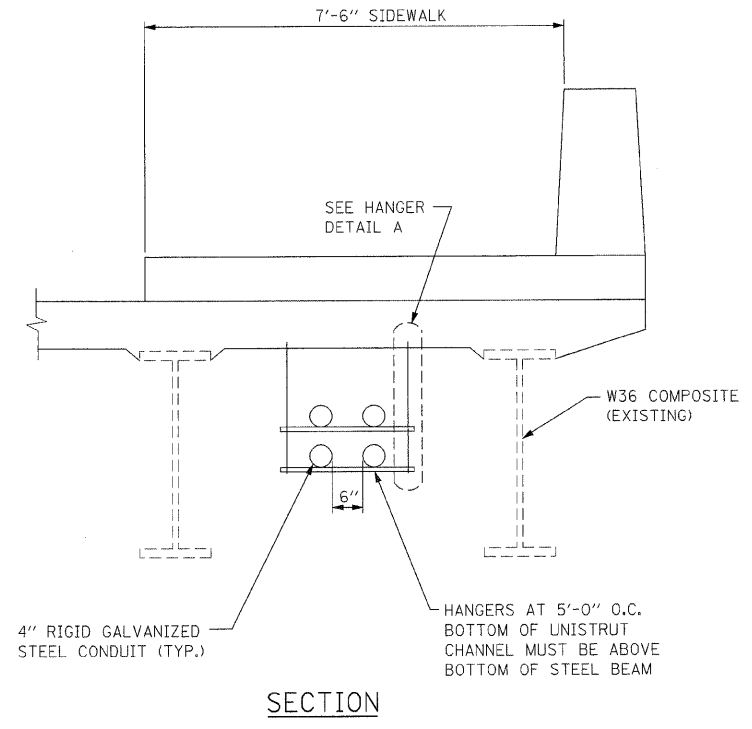
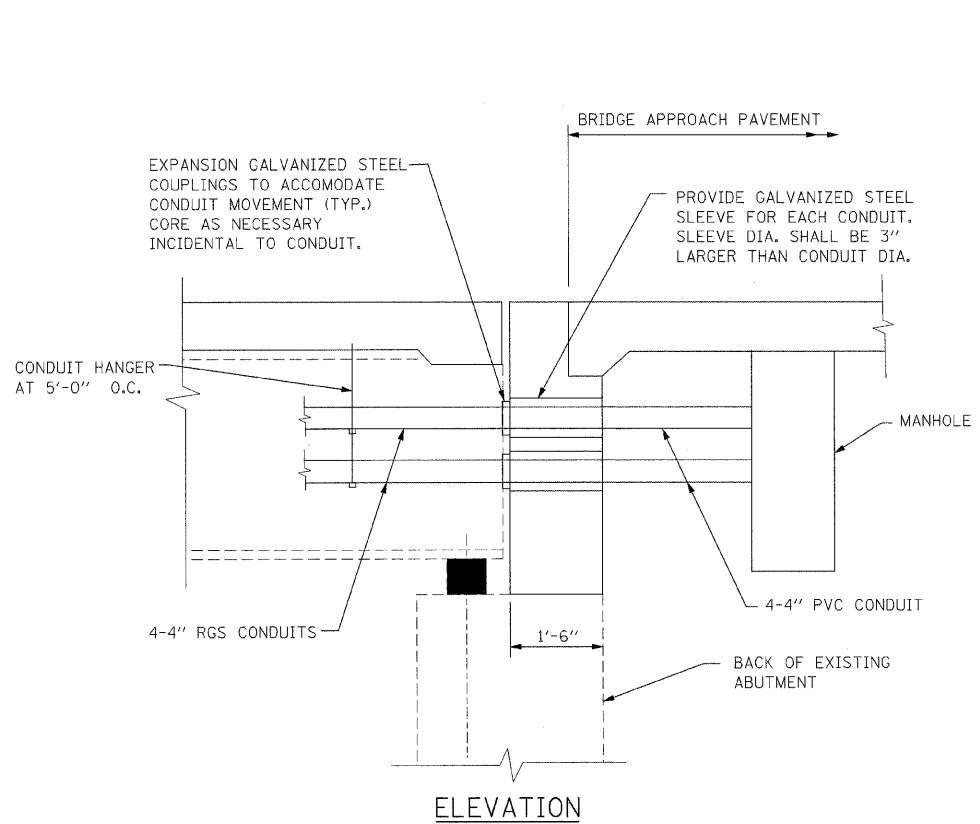
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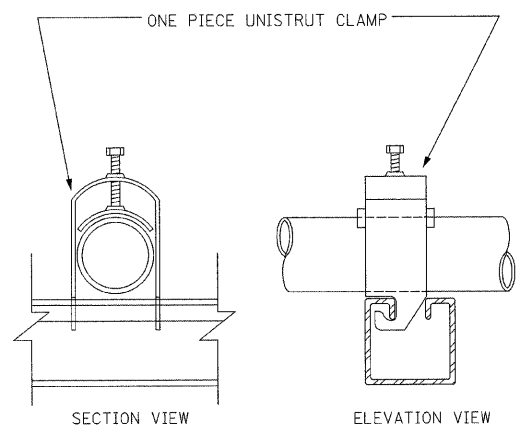
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205 N. MICHIGAN AVE. CHICAGO, IL 60601
TELEPHONE: 312/616-0000

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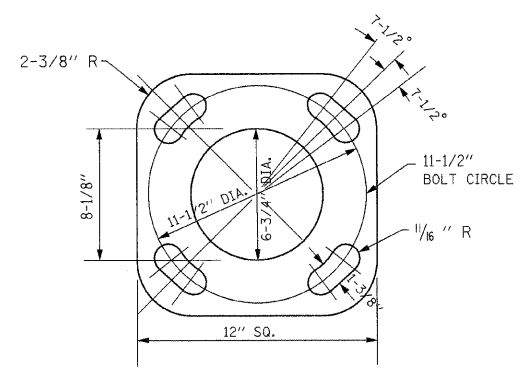
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.1B-R	COOK	101	032
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62532				



EXPANSION COUPLING DETAIL
NOT TO SCALE



CONDUIT CLAMP DETAIL
NOT TO SCALE



VIBRATION ISOLATION PAD DETAIL
NOTE 1

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

..N1TH ST BORDER.DGN
 1-6-2009, 12:40:49
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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

111TH ST BORDER.DGN
 11-16-2009, 12:08:49
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 RECHTBR

TS-1

REVISIONS	
NAME	DATE

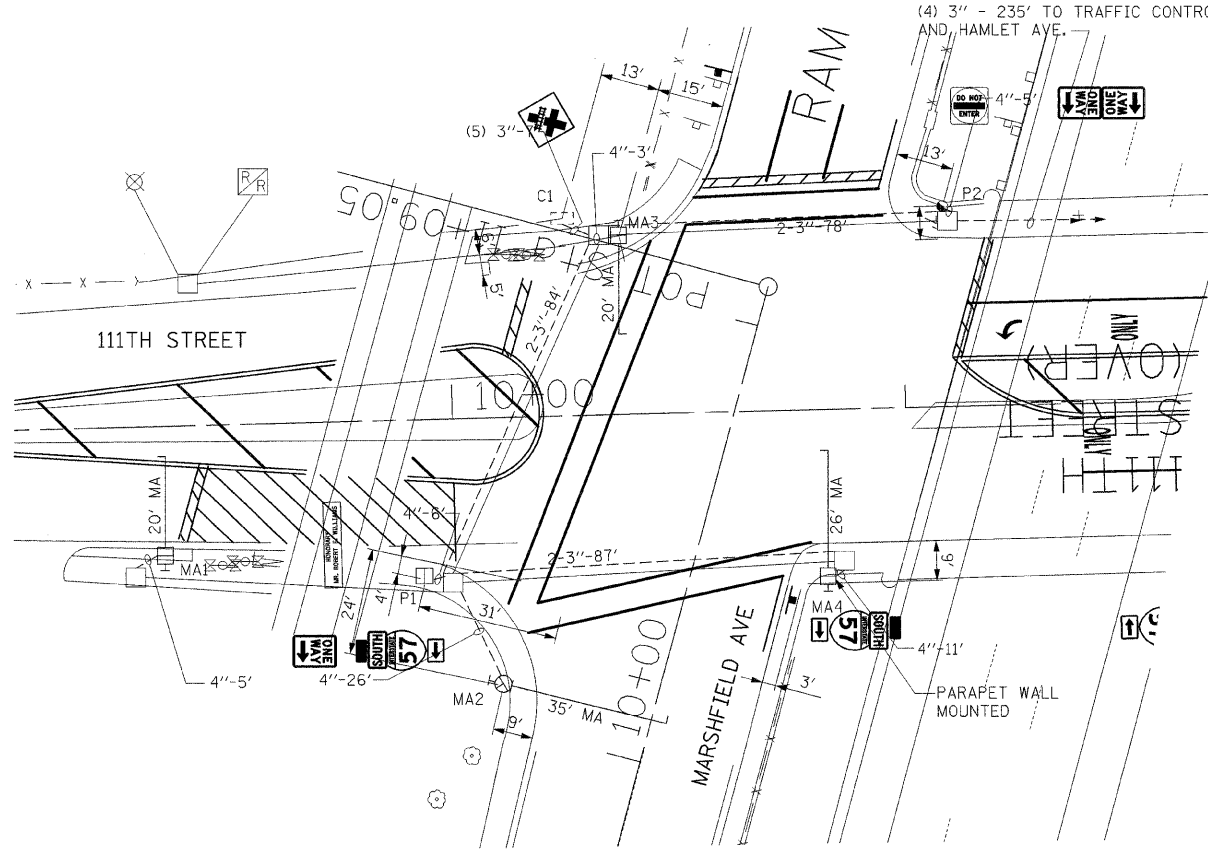
ILLINOIS DEPARTMENT OF TRANSPORTATION
 111TH STREET OVER
 F.A.I ROUTE 57 (INTERSTATE 57)
**TRAFFIC SIGNAL
 SUMMARY OF QUANTITIES**

SCALE: NONE
 DATE: 01/16/09

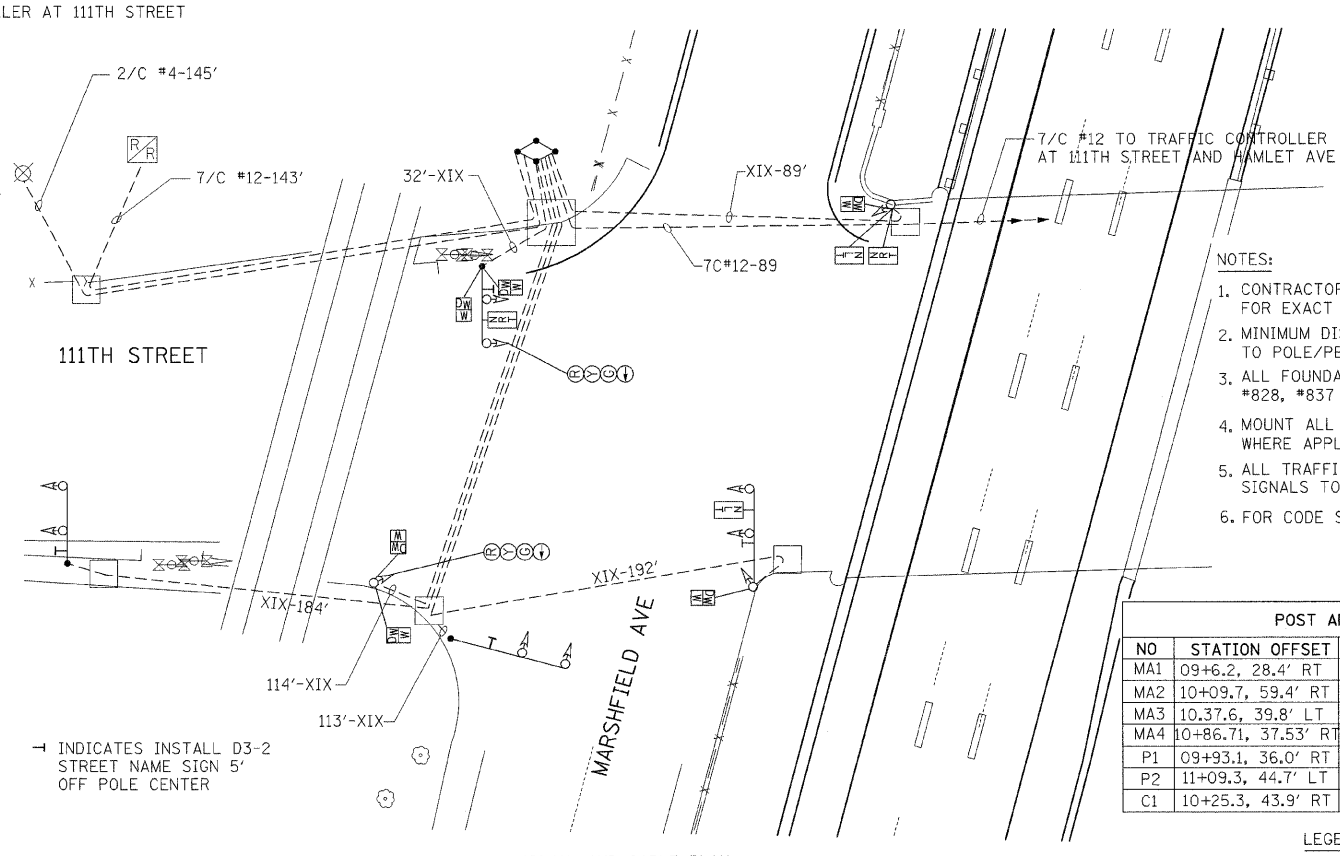
DRAWN BY: ACL
 CHECKED BY: RMW

TENG
TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 209 N. MICHIGAN AVE., CHICAGO, IL 60601
 TELEPHONE: 312.616.2000

\\NORTH ST. BORDER.DGN, \\PIM007SF.DGN, \\PIM007CG.DGN, \\VPM007EF.DGN, \\VPM007G.DGN, \\VPM007H.DGN, \\VPM007I.DGN, \\VPM007J.DGN, \\VPM007K.DGN, \\VPM007L.DGN, \\VPM007M.DGN, \\VPM007N.DGN, \\VPM007O.DGN, \\VPM007P.DGN, \\VPM007Q.DGN, \\VPM007R.DGN, \\VPM007S.DGN, \\VPM007T.DGN, \\VPM007U.DGN, \\VPM007V.DGN, \\VPM007W.DGN, \\VPM007X.DGN, \\VPM007Y.DGN, \\VPM007Z.DGN, \\VPM008.DGN, \\VPM009.DGN, \\VPM010.DGN, \\VPM011.DGN, \\VPM012.DGN, \\VPM013.DGN, \\VPM014.DGN, \\VPM015.DGN, \\VPM016.DGN, \\VPM017.DGN, \\VPM018.DGN, \\VPM019.DGN, \\VPM020.DGN, \\VPM021.DGN, \\VPM022.DGN, \\VPM023.DGN, \\VPM024.DGN, \\VPM025.DGN, \\VPM026.DGN, \\VPM027.DGN, \\VPM028.DGN, \\VPM029.DGN, \\VPM030.DGN, \\VPM031.DGN, \\VPM032.DGN, \\VPM033.DGN, \\VPM034.DGN, \\VPM035.DGN, \\VPM036.DGN, \\VPM037.DGN, \\VPM038.DGN, \\VPM039.DGN, \\VPM040.DGN, \\VPM041.DGN, \\VPM042.DGN, \\VPM043.DGN, \\VPM044.DGN, \\VPM045.DGN, \\VPM046.DGN, \\VPM047.DGN, \\VPM048.DGN, \\VPM049.DGN, \\VPM050.DGN, \\VPM051.DGN, \\VPM052.DGN, \\VPM053.DGN, \\VPM054.DGN, \\VPM055.DGN, \\VPM056.DGN, \\VPM057.DGN, \\VPM058.DGN, \\VPM059.DGN, \\VPM060.DGN, \\VPM061.DGN, \\VPM062.DGN, \\VPM063.DGN, \\VPM064.DGN, \\VPM065.DGN, \\VPM066.DGN, \\VPM067.DGN, \\VPM068.DGN, \\VPM069.DGN, \\VPM070.DGN, \\VPM071.DGN, \\VPM072.DGN, \\VPM073.DGN, \\VPM074.DGN, \\VPM075.DGN, \\VPM076.DGN, \\VPM077.DGN, \\VPM078.DGN, \\VPM079.DGN, \\VPM080.DGN, \\VPM081.DGN, \\VPM082.DGN, \\VPM083.DGN, \\VPM084.DGN, \\VPM085.DGN, \\VPM086.DGN, \\VPM087.DGN, \\VPM088.DGN, \\VPM089.DGN, \\VPM090.DGN, \\VPM091.DGN, \\VPM092.DGN, \\VPM093.DGN, \\VPM094.DGN, \\VPM095.DGN, \\VPM096.DGN, \\VPM097.DGN, \\VPM098.DGN, \\VPM099.DGN, \\VPM100.DGN



FOUNDATION AND CONDUIT PLAN
1" = 20'

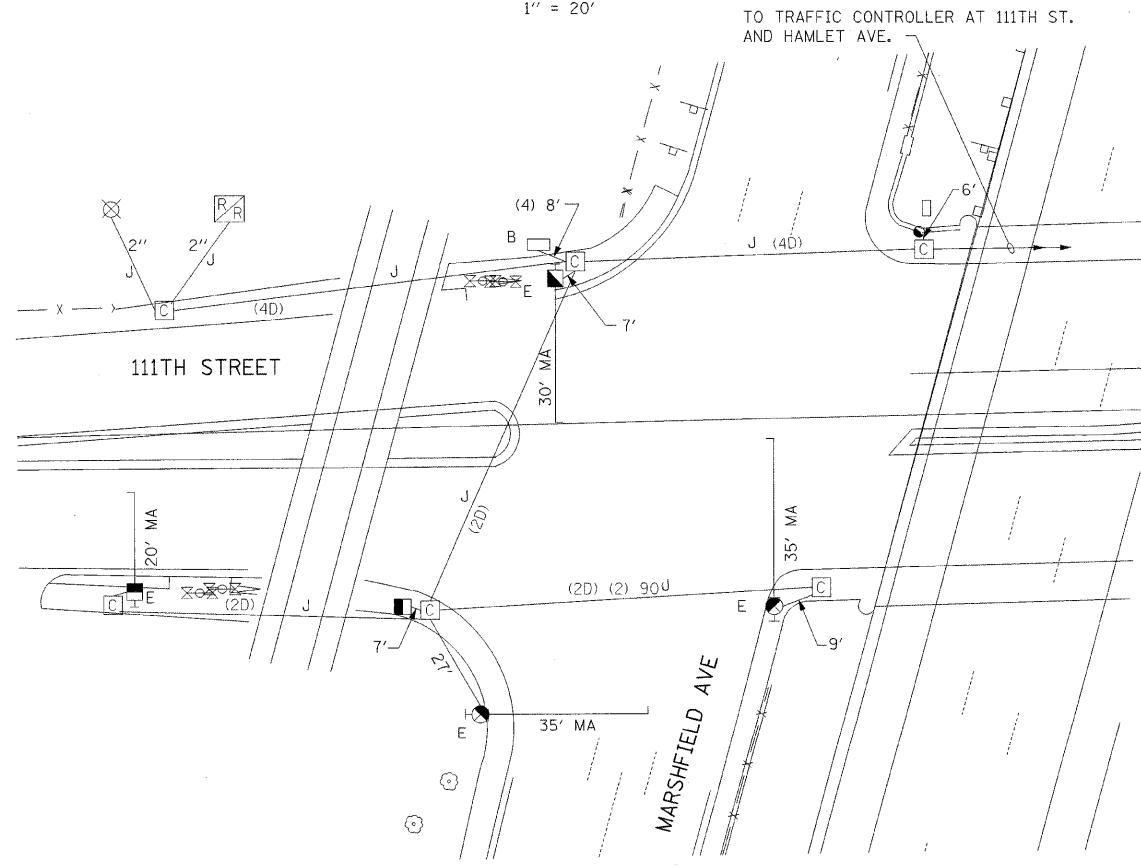


SIGNAL AND CABLE PLAN
SCALE: NONE

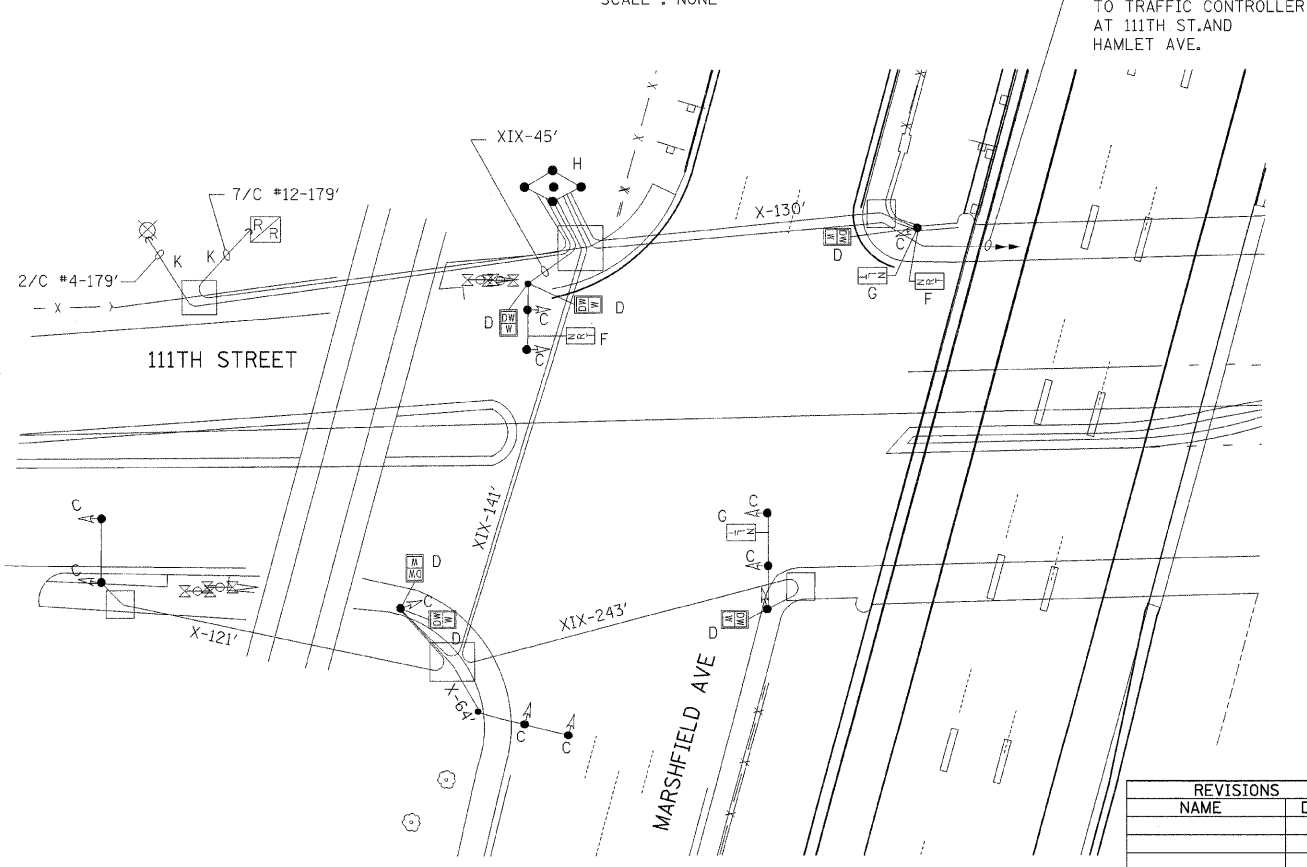
- NOTES:
- CONTRACTOR TO CONTACT ALL UTILITIES PRIOR TO EXCAVATION FOR EXACT LOCATION OF THEIR UNDERGROUND FACILITIES.
 - MINIMUM DISTANCE OF 3 FEET IS DESIRABLE FROM CURB FACE TO POLE/PEDESTAL CENTERLINE.
 - ALL FOUNDATIONS IN SIDEWALK TO BE INSTALLED PER DRAWING #828, #837 AND 854.
 - MOUNT ALL PEDESTRIAN SIGNALS BELOW TRAFFIC SIGNALS WHERE APPLICABLE.
 - ALL TRAFFIC SIGNALS TO BE 12" LED AND ALL PEDESTRIAN SIGNALS TO BE 16" LED
 - FOR CODE SEE DRAWING # 826.

POST ARM & CONTROLLER DATA		
NO	STATION OFFSET	DESCRIPTION
MA1	09+6.2, 28.4' RT	POLE, CITY STEEL, ANCHOR BASE, 34'-6", 20' M.A.
MA2	10+09.7, 59.4' RT	POLE, CITY STEEL, ANCHOR BASE, 34'-6", 35' M.A.
MA3	10.37.6, 39.8' LT	POLE, CITY STEEL, ANCHOR BASE, 34'-6", 20' M.A.
MA4	10+86.71, 37.53' RT	POLE, CITY STEEL, ANCHOR BASE, 34'-6", 26' M.A.
P1	09+93.1, 36.0' RT	POLE, CITY STEEL, ANCHOR BASE, 34'-6"
P2	11+09.3, 44.7' LT	POLE, CITY STEEL, ANCHOR BASE, 32'-6"
C1	10+25.3, 43.9' RT	TRAFFIC CONTROLLER, TYPE "P" CABINET

- LEGEND:
- B - BREAK DOWN CONTROLLER FOUNDATION (1)
 - C - REMOVE TRAFFIC SIGNALS (11)
 - D - REMOVE PEDESTRIAN "WALK/DON'T WALK" SIGNAL (6)
 - E - REMOVE M.A. ASSEMBLY (4)
 - F - REMOVE ILLUMINATED NO RIGHT TURN SIGN (2)
 - G - REMOVE ILLUMINATED NO LEFT TURN SIGN (2)
 - H - REMOVE CONTROLLER AND POST (1)
 - J - EXISTING CONDUIT TO REMAIN
 - K - REMOVE CABLES AS SHOWN: 7/C #12-635, 2/C #4-179, X-315, XIX-429



FOUNDATION REMOVAL PLAN
SCALE: NONE



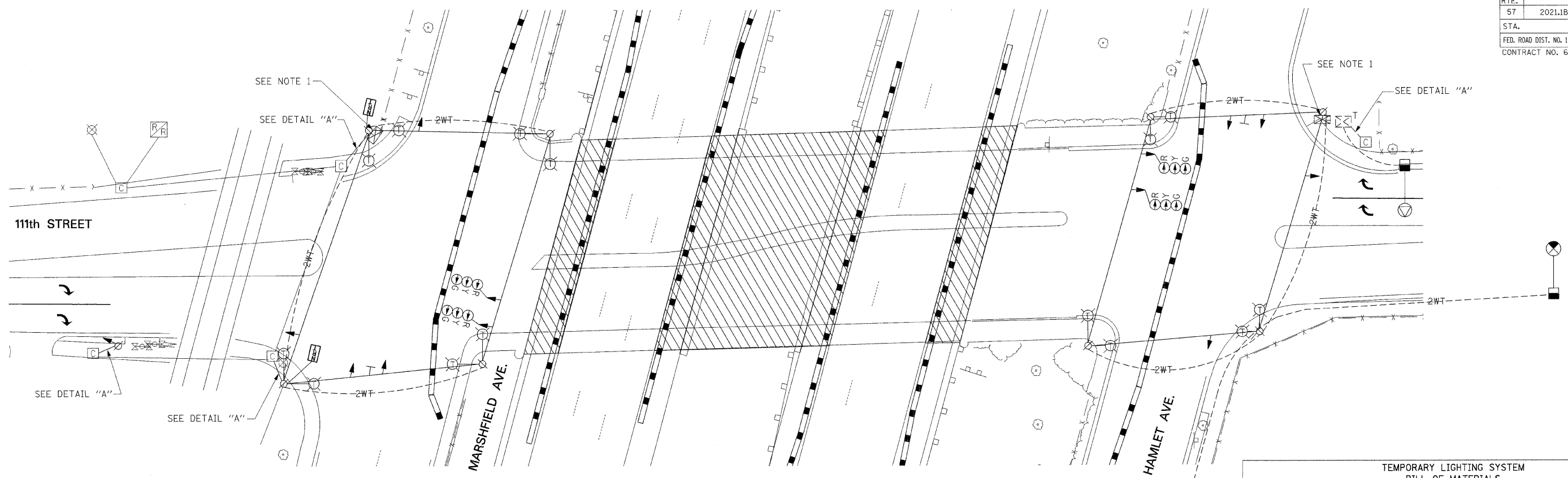
SIGNAL AND CABLE REMOVAL PLAN
SCALE: NONE

REVISIONS	
NAME	DATE

DATE	REVISION
WORK ORDER NO.	DATE
COST ALLOCATION ACCOUNT	
APPROPRIATION ACCOUNT	MATERIAL
	LABOR
F.A.I. ROUTE 57 (INTERSTATE 57) 111th ST. CONTRACT TRAFFIC SIGNAL PLAN 111th ST. AND MARSHFIELD AVE.	
CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING	
DRAFTSMAN:	CHIEF DRAFTSMAN: ENGINEER:
SUPERVISING ENGINEER	DRAWING NO.
ENGINEER OF ELECTRICITY	23580
SUPV. OF CONSTRUCTION	
DEPUTY COMMISSIONER	
SIZE: TS-2	SCALE: 1" = 20' DATE: MAY 2003

ILLINOIS DEPARTMENT OF TRANSPORTATION
111TH STREET OVER
F.A.I. ROUTE 57 (INTERSTATE 57)
TRAFFIC SIGNAL PLAN
111th ST. AND MARSHFIELD AVE.

SCALE: 1" = 20'
DATE: 01/16/09
DRAWN BY: ACL
CHECKED BY: RMW



TEMPORARY LIGHTING SYSTEM BILL OF MATERIALS		
DESCRIPTION	UNITS	QUANTITY
ELECTRIC CABLE, AERIAL 2/C #6	FOOT	600
TEMPORARY 400W HPS LUMINAIRE, 240V	EACH	16
TEMPORARY MAST ARM, 12'	EACH	16

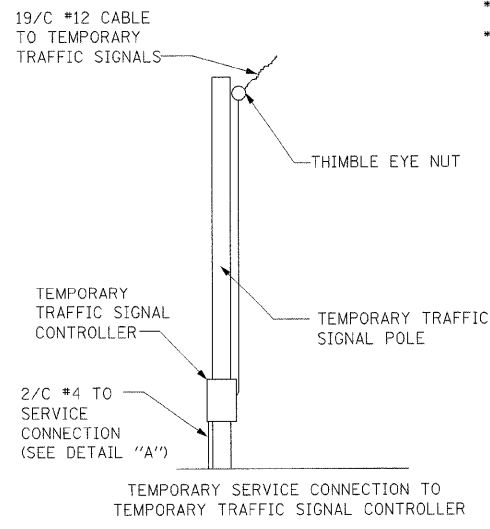
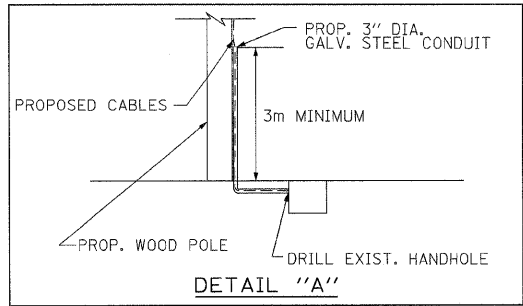
- NOTES:**
1. THE CONTRACTOR SHALL CONNECT TEMPORARY TRAFFIC SIGNALS TO THE TEMPORARY TRAFFIC SIGNAL CONTROLLER AS SHOWN ON THE DETAIL, "TEMPORARY TRAFFIC SIGNAL CONNECTION". THE CONTRACTOR SHALL REUSE THE ELECTRICAL SERVICE FOR THE TEMPORARY TRAFFIC SIGNAL CONTROLLER. EXTRA PRECAUTION MUST BE TAKEN WHEN PLACING STRAPS, MOUNTING CONDUIT AND RUNNING CABLE. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT, TOOLS, AND DEVICES REQUIRED FOR PROPER SERVICE CONNECTIONS. ALL TEMPORARY SERVICE AND CONNECTIONS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER EACH FOR "TEMPORARY TRAFFIC SIGNAL INSTALLATION."
 2. 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 FOR "TEMPORARY TRAFFIC SIGNAL INSTALLATION."
 3. FOR TEMPORARY LIGHTING NOTES, SEE SHEET E-1.

TEMPORARY TRAFFIC SIGNAL INSTALLATION BILL OF MATERIALS		
DESCRIPTION	UNITS	QUANTITY
WOOD POLES, CLASS 5, 45 FT. WITH GUY WIRE AND ANCHORS	EACH	8
ELECTRIC CABLE, AERIAL SUSPENDED SIGNAL NO. 12, 19C	FOOT	100
ELECTRIC CABLE, AERIAL SUSPENDED POWER NO. 4, 2C	FOOT	500
SIGNAL HEAD, 1 FACE, 3 SECTION, 12" LENSES	EACH	12
FIBER OPTIC SIGN	EACH	2
NO LEFT TURN, R3-2	EACH	2

* ALL WORK SHALL BE PAID FOR UNDER THE CONTRACT UNIT PRICE PER EACH FOR "TEMPORARY TRAFFIC SIGNAL INSTALLATION"

TEMPORARY TRAFFIC SIGNAL & LIGHTING LEGEND

- ← PROPOSED TRAFFIC SIGNAL HEAD WITH SPAN WIRE, LOCATION VARIES
- ⊗ EXISTING ComEd SERVICE
- ⊘ WOOD POLE (CLASS 5 OR BETTER), 50 FT. MINIMUM
- ⊕ EXISTING LIGHTING CONTROLLER
- ⊙ EXISTING LIGHT POLE TO REMAIN
- ⊖ TEMPORARY MAST ARM AND LUMINAIRE
- 2WT TEMPORARY LIGHTING AERIAL CABLE
- TEMPORARY SPAN WIRE, TETHER WIRE AND CABLE
- ⊠ FIBER OPTIC SIGN, "NO RIGHT TURN"
- ⊥ "NO LEFT TURN" (R3-2)
- ▨ WORK AREA
- ⊠ TEMPORARY TRAFFIC SIGNAL CONTROLLER



REVISIONS	
NAME	DATE

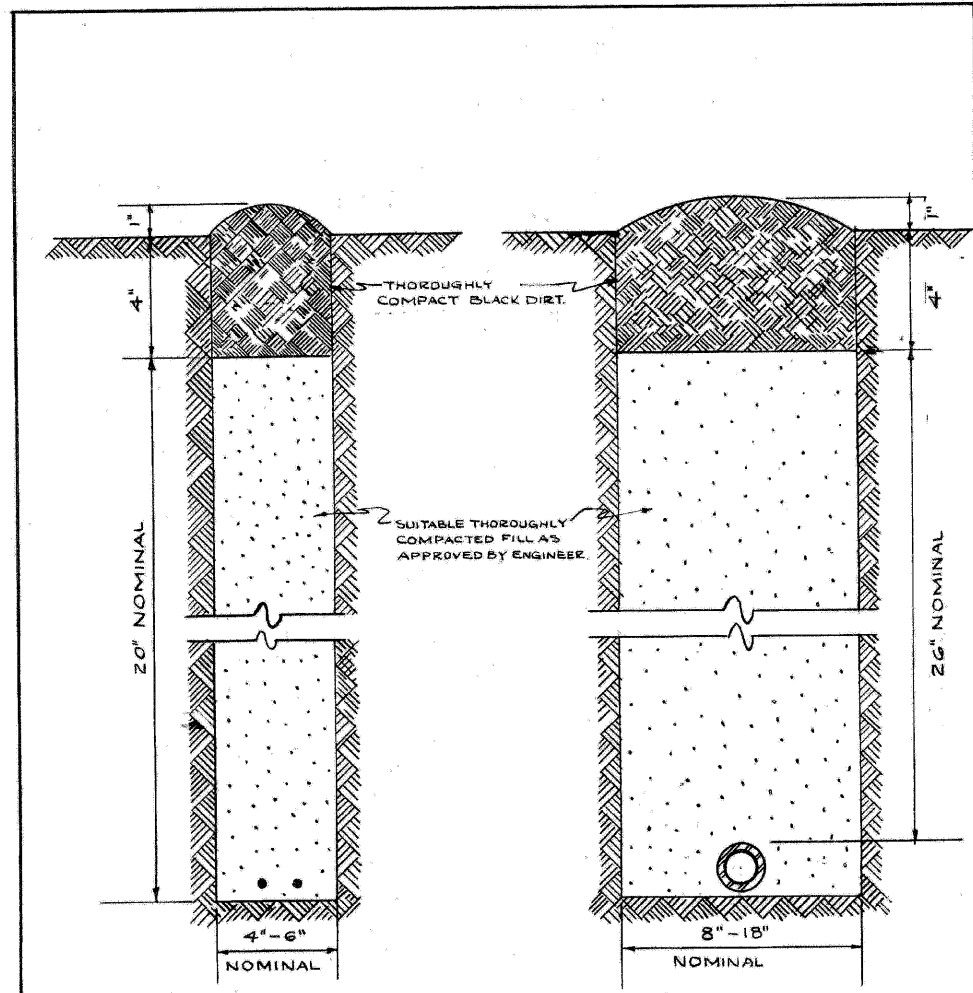
ILLINOIS DEPARTMENT OF TRANSPORTATION
111TH STREET OVER
F.A.I ROUTE 57 (INTERSTATE 57)
**TEMPORARY TRAFFIC SIGNAL PLAN
111TH STREET**

SCALE: 1" = 20'
DATE: 01/16/09

DRAWN BY: ACL
CHECKED BY: RMW

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

\NITH ST BORDER.DGN, \SYM0075F.DGN, \SYM0076F.DGN, \SYM0077F.DGN, \SYM0078F.DGN, \SYM0079F.DGN, \SYM0080F.DGN, \SYM0081F.DGN, \SYM0082F.DGN, \SYM0083F.DGN, \SYM0084F.DGN, \SYM0085F.DGN, \SYM0086F.DGN, \SYM0087F.DGN, \SYM0088F.DGN, \SYM0089F.DGN, \SYM0090F.DGN, \SYM0091F.DGN, \SYM0092F.DGN, \SYM0093F.DGN, \SYM0094F.DGN, \SYM0095F.DGN, \SYM0096F.DGN, \SYM0097F.DGN, \SYM0098F.DGN, \SYM0099F.DGN, \SYM0100F.DGN, \SYM0101F.DGN, \SYM0102F.DGN, \SYM0103F.DGN, \SYM0104F.DGN, \SYM0105F.DGN, \SYM0106F.DGN, \SYM0107F.DGN, \SYM0108F.DGN, \SYM0109F.DGN, \SYM0110F.DGN, \SYM0111F.DGN, \SYM0112F.DGN, \SYM0113F.DGN, \SYM0114F.DGN, \SYM0115F.DGN, \SYM0116F.DGN, \SYM0117F.DGN, \SYM0118F.DGN, \SYM0119F.DGN, \SYM0120F.DGN, \SYM0121F.DGN, \SYM0122F.DGN, \SYM0123F.DGN, \SYM0124F.DGN, \SYM0125F.DGN, \SYM0126F.DGN, \SYM0127F.DGN, \SYM0128F.DGN, \SYM0129F.DGN, \SYM0130F.DGN, \SYM0131F.DGN, \SYM0132F.DGN, \SYM0133F.DGN, \SYM0134F.DGN, \SYM0135F.DGN, \SYM0136F.DGN, \SYM0137F.DGN, \SYM0138F.DGN, \SYM0139F.DGN, \SYM0140F.DGN, \SYM0141F.DGN, \SYM0142F.DGN, \SYM0143F.DGN, \SYM0144F.DGN, \SYM0145F.DGN, \SYM0146F.DGN, \SYM0147F.DGN, \SYM0148F.DGN, \SYM0149F.DGN, \SYM0150F.DGN, \SYM0151F.DGN, \SYM0152F.DGN, \SYM0153F.DGN, \SYM0154F.DGN, \SYM0155F.DGN, \SYM0156F.DGN, \SYM0157F.DGN, \SYM0158F.DGN, \SYM0159F.DGN, \SYM0160F.DGN

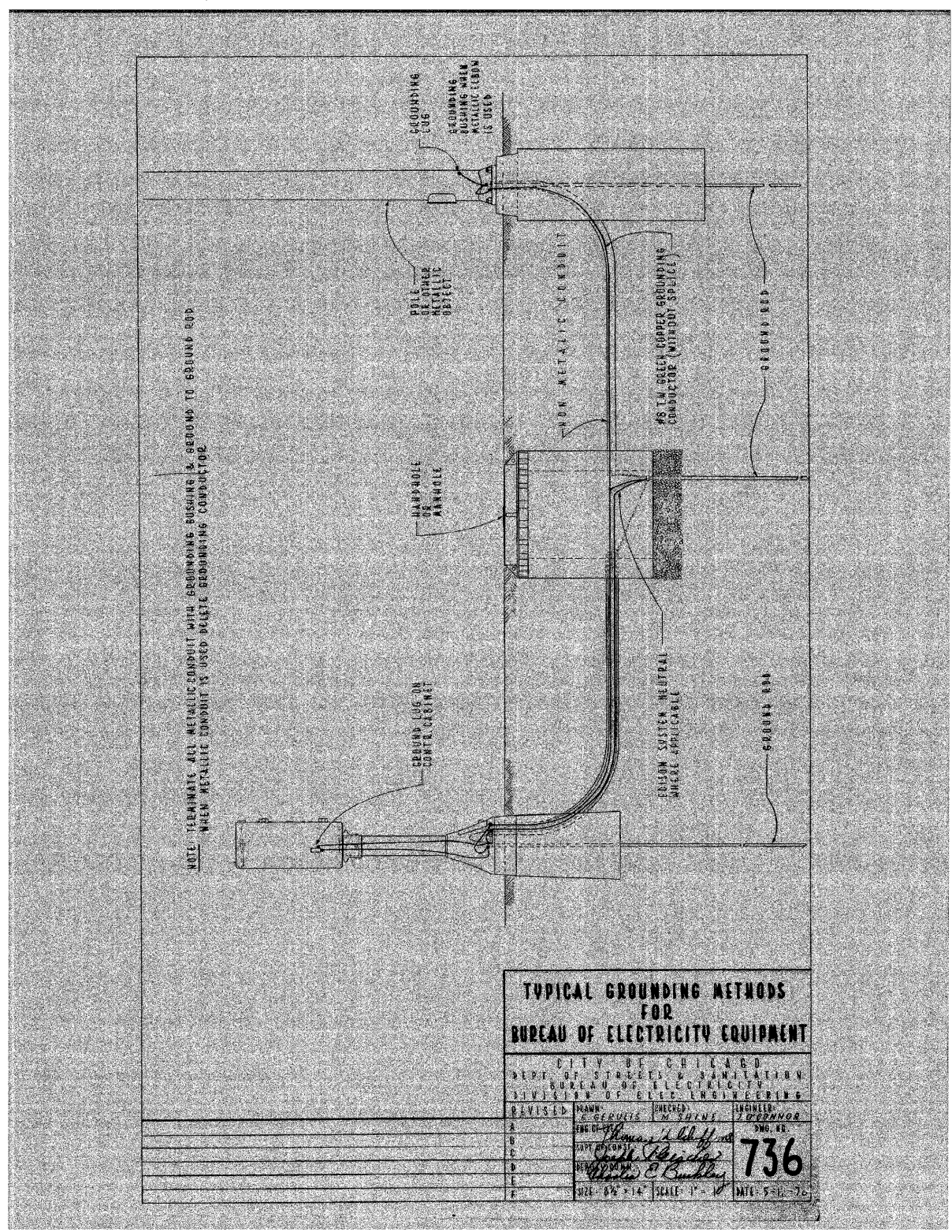


CABLE TRENCH

CONDUIT TRENCH

NOTE
 EXCESS SOIL FROM TRENCH TO BE COMPLETELY REMOVED FROM SITE AS SOON AS PRACTICABLE.
 BLACK DIRT TO BE TAMPED & THOROUGHLY COMPACTED AS SHOWN.

STANDARD METHOD FOR BACKFILLING CABLE & CONDUIT TRENCHES IN SODDED PARKWAY & LAWNS			
CITY OF CHICAGO			
DEPT. OF STREETS & SANITATION			
DIVISION OF ELECTRICAL ENGINEERING			
REVISION	DRAWN	CHECKED	ENGINEER
A	W. E. HARR	J. J. CONNOR	J. J. CONNOR
B	ENG. IN CHARGE		
C	SUPT. OF CONE.		
D			
E			
F			
G			
H			
SIZE 8 1/2 x 14"			SCALE: N
DRG. NO. 579			DATE: 7-14-01



NOTE: TERMINATE ALL METALLIC CONDUIT WITH GROUNDING RUSHING & GROUND TO GROUND ROD WHEN METALLIC CONDUIT IS USED BELETE GROUNDING CONDUCTOR.

TYPICAL GROUNDING METHODS FOR BUREAU OF ELECTRICITY EQUIPMENT

CITY OF CHICAGO			
DEPT. OF STREETS & SANITATION			
BUREAU OF ELECTRICITY			
DIVISION OF ELECTRICAL ENGINEERING			
DESIGNED	DRAWN	CHECKED	APPROVED
	W. E. HARR	J. J. CONNOR	J. J. CONNOR
ENG. NO.			
736			
DATE: 5-1-70			

REVISIONS	
NAME	DATE

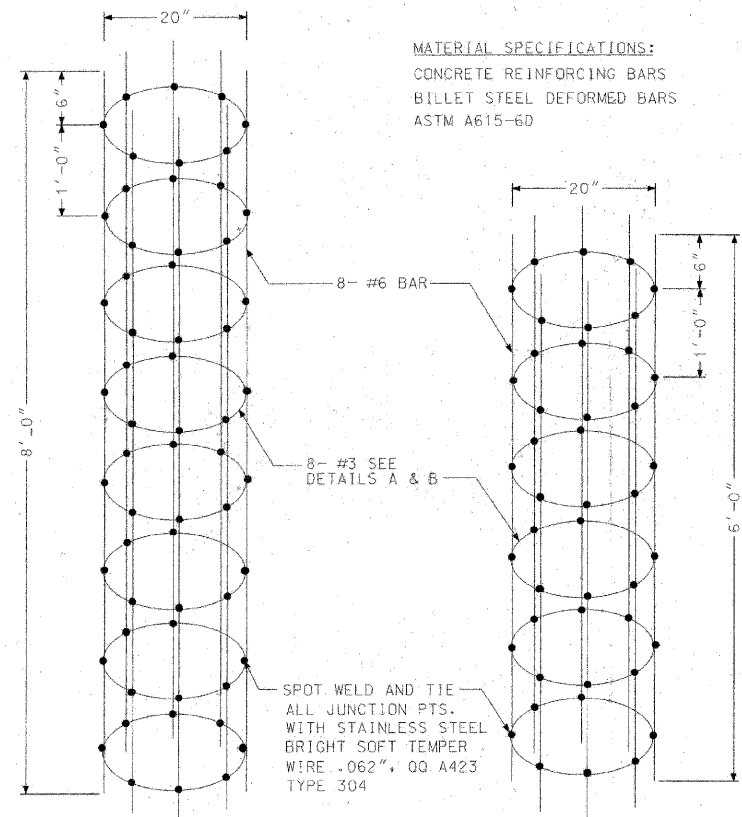
ILLINOIS DEPARTMENT OF TRANSPORTATION
 111TH STREET OVER
 F.A.I ROUTE 57 (INTERSTATE 57)

ELECTRICAL STANDARD DETAILS

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

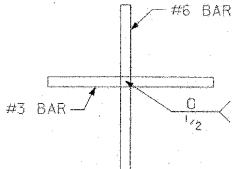
TENG
 TENG & ASSOCIATES, INC.
 ENGINEERS-ARCHITECTS-PLANNERS
 205 N. MICHIGAN AVE., CHICAGO, IL 60601
 TELEPHONE: 312.765-0000

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				

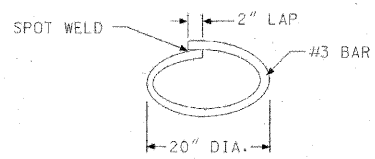


MATERIAL SPECIFICATIONS:
 CONCRETE REINFORCING BARS
 BILLET STEEL DEFORMED BARS
 ASTM A615-6D

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#



DETAIL "B"



DETAIL "A"

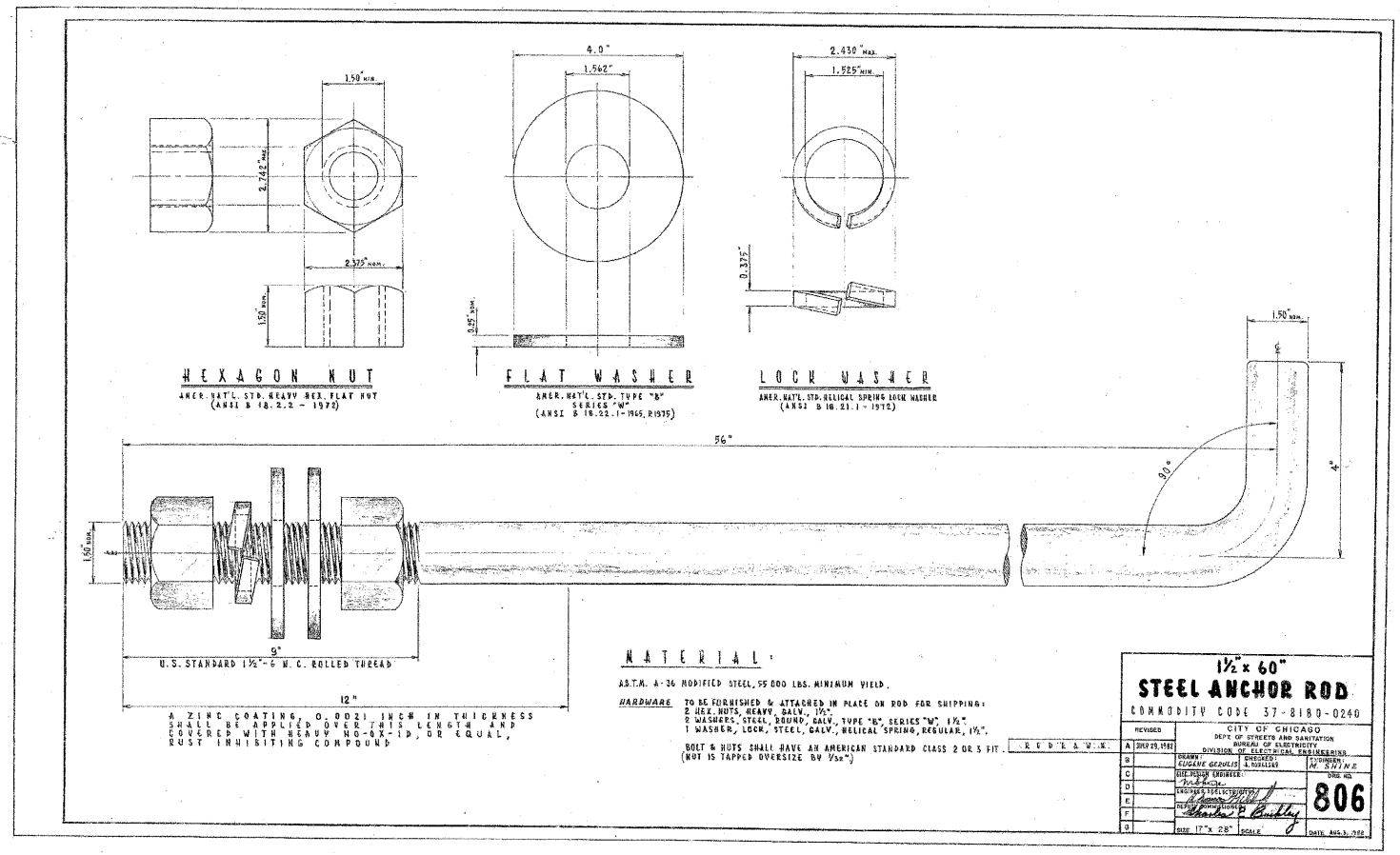
REVISION	DATE

STEEL CAGES FOR POLE FOUNDATIONS

CITY OF CHICAGO
 DEPT. OF STREET AND SANITATION
 DIVISION OF ELECTRICAL ENGINEERING

DESIGNED BY: [Signature]
 CHECKED BY: [Signature]
 DATE: 10-12-09

793A



MATERIAL

A.S.T.M. A-36 MODIFIED STEEL, 55 000 LBS. MINIMUM YIELD.
 HARDWARE TO BE FURNISHED & ATTACHED IN PLACE ON ROD FOR SHIPPING:
 2 HEX. NUTS, HEAVY, GALV., 1 1/2"
 2 WASHERS, STEEL, BORDO, GALV., TYPE "B", SERIES "M", 1 1/2"
 1 WASHER, LOCK, STEEL, GALV., METALIC SPRING LOCK WASHER, 1 1/2"
 BOLT & NUTS SHALL HAVE AN AMERICAN STANDARD CLASS 2 OR 5 FIT.
 (NOT TO TAPPED OVERSIZE BY 95%)

1 1/2 x 60" STEEL ANCHOR ROD
 COMMODITY CODE 57-8180-0240

REVISION	DATE

CITY OF CHICAGO
 DEPT. OF STREET AND SANITATION
 DIVISION OF ELECTRICAL ENGINEERING

DESIGNED BY: [Signature]
 CHECKED BY: [Signature]
 DATE: 10-12-09

793A

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ES-03

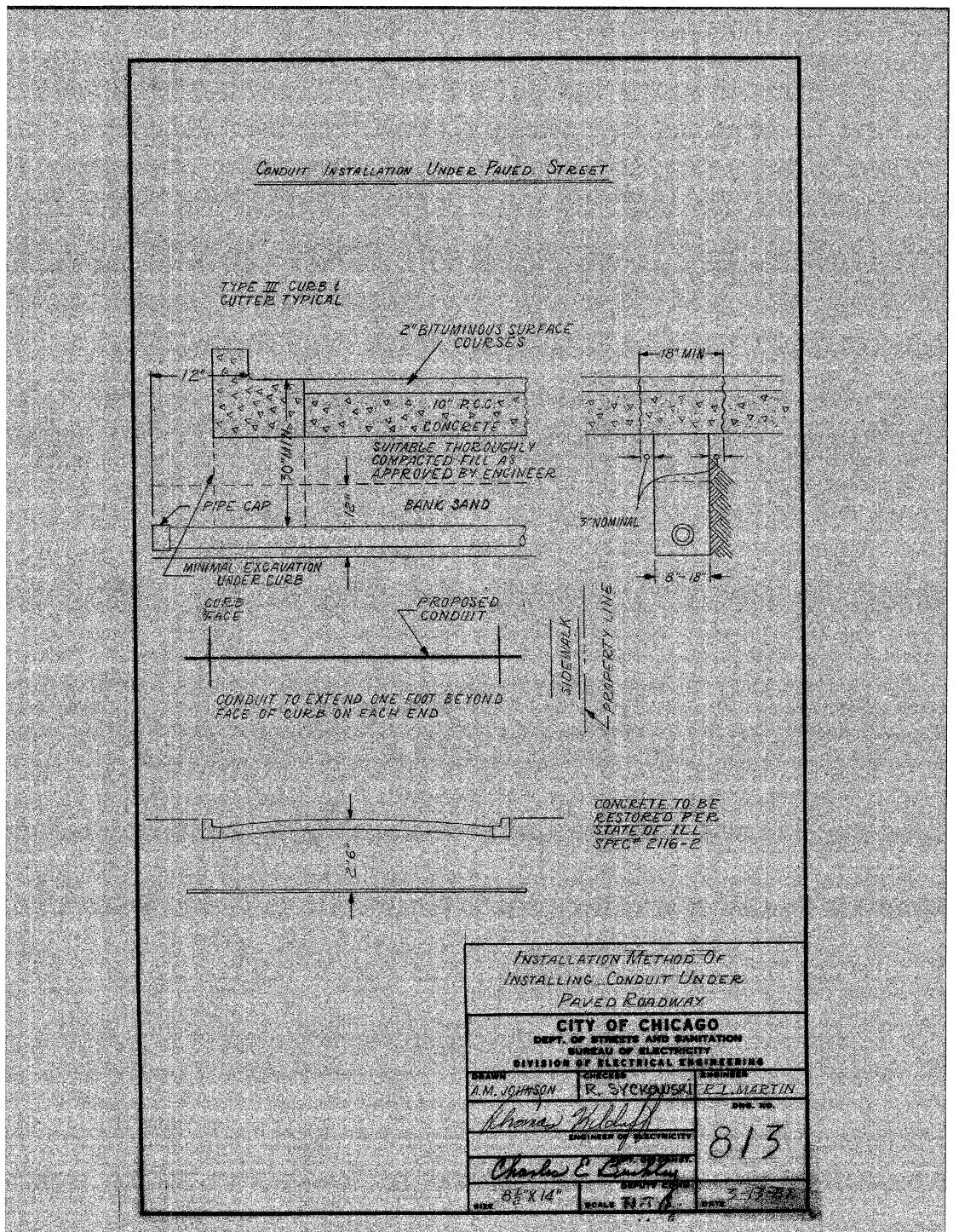
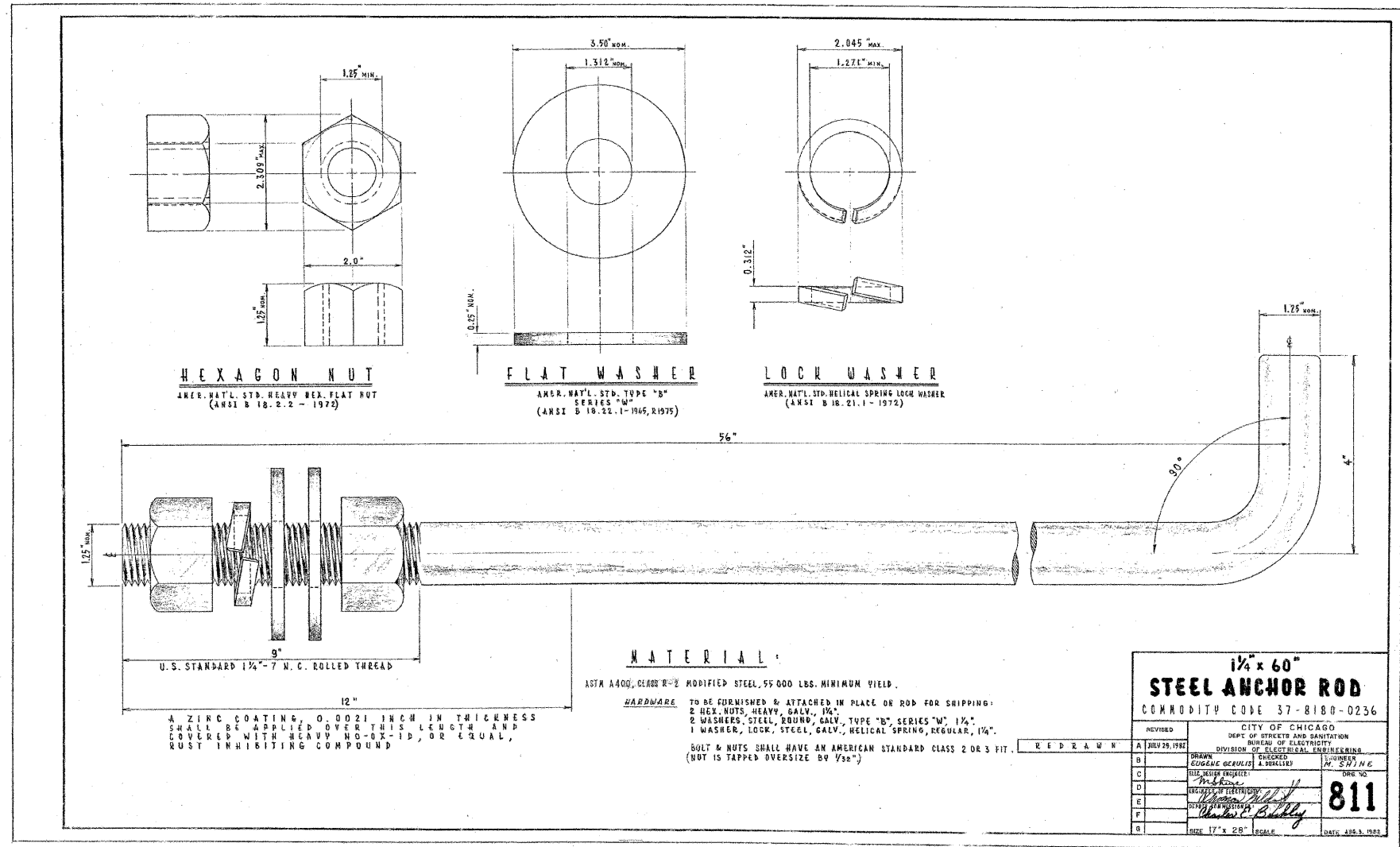
REVISIONS	
NAME	DATE

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



INSTALLATION METHOD OF INSTALLING CONDUIT UNDER PAVED ROADWAY

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

DRAWN	CHECKED	ENGINEER
A.M. JOHNSON	R. SYKORSKI	E.I. MARTIN
813		DWG. NO.
Charles E. Conroy		DATE
8 1/2" x 14"		SCALE 3/4" = 1'

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

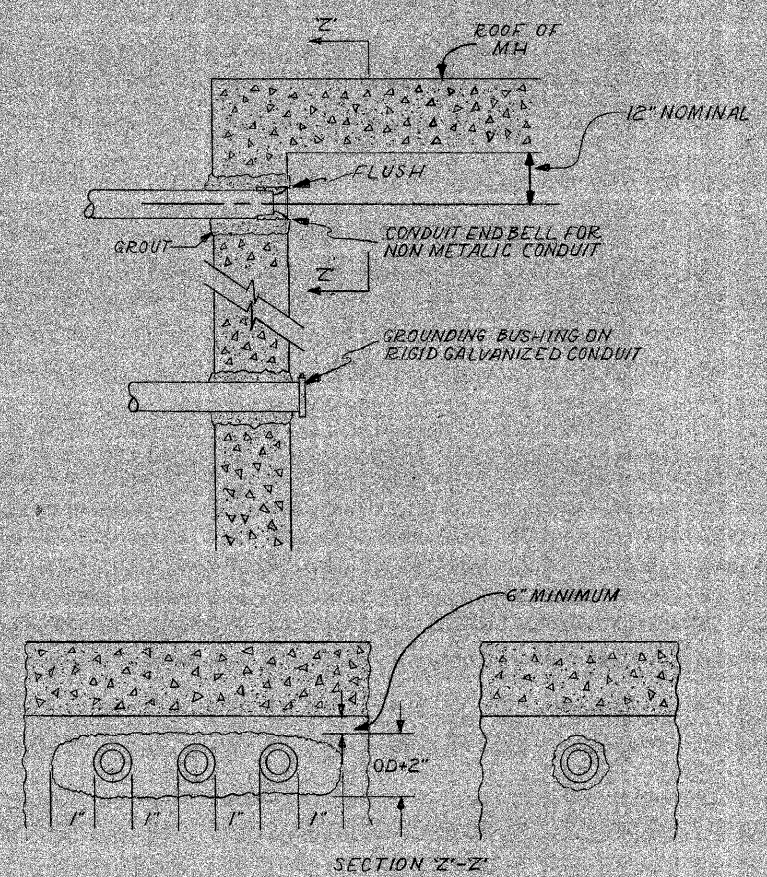
DRAWN BY: N/A
CHECKED BY: N/A

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

111TH ST BORDER.DGN
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 ES-04

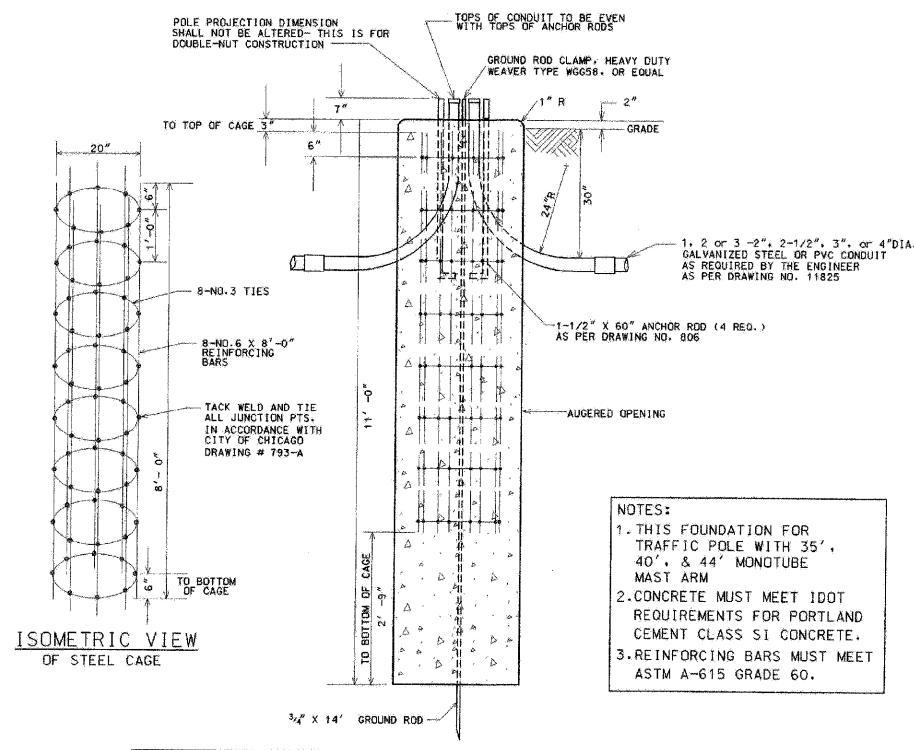
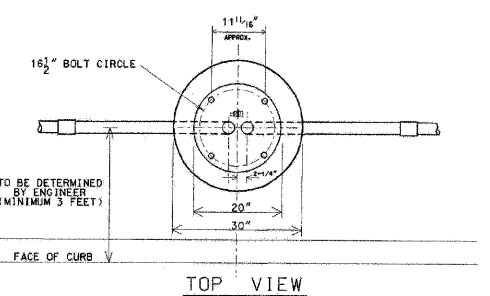
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.1B-R	COOK	101	041
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
CONTRACT NO. 62532				

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	CHECKED	ENGINEER
A.M. JOHNSON	R. SYCKOWSKI	R.L. MARTIN
<i>Thomas Kilduff</i>		DRG. NO.
ENGINEER OF ELECTRICITY		814
<i>Charles C. Bunkley</i>		DATE
8 1/2" X 14"	SCALE N.T.S.	8-13-01



- NOTES:
1. THIS FOUNDATION FOR TRAFFIC POLE WITH 35', 40', & 44' MONOTUBE MAST ARM
 2. CONCRETE MUST MEET IDOT REQUIREMENTS FOR PORTLAND CEMENT CLASS S1 CONCRETE.
 3. 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' 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 #817 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	ENGINEER
B. CARNSEY	R. CARTER
ELECTRICAL ENGINEER	ENGINEER
817	817
DATE	DATE
8/21/02	8/21/02

REVISIONS	
NAME	DATE

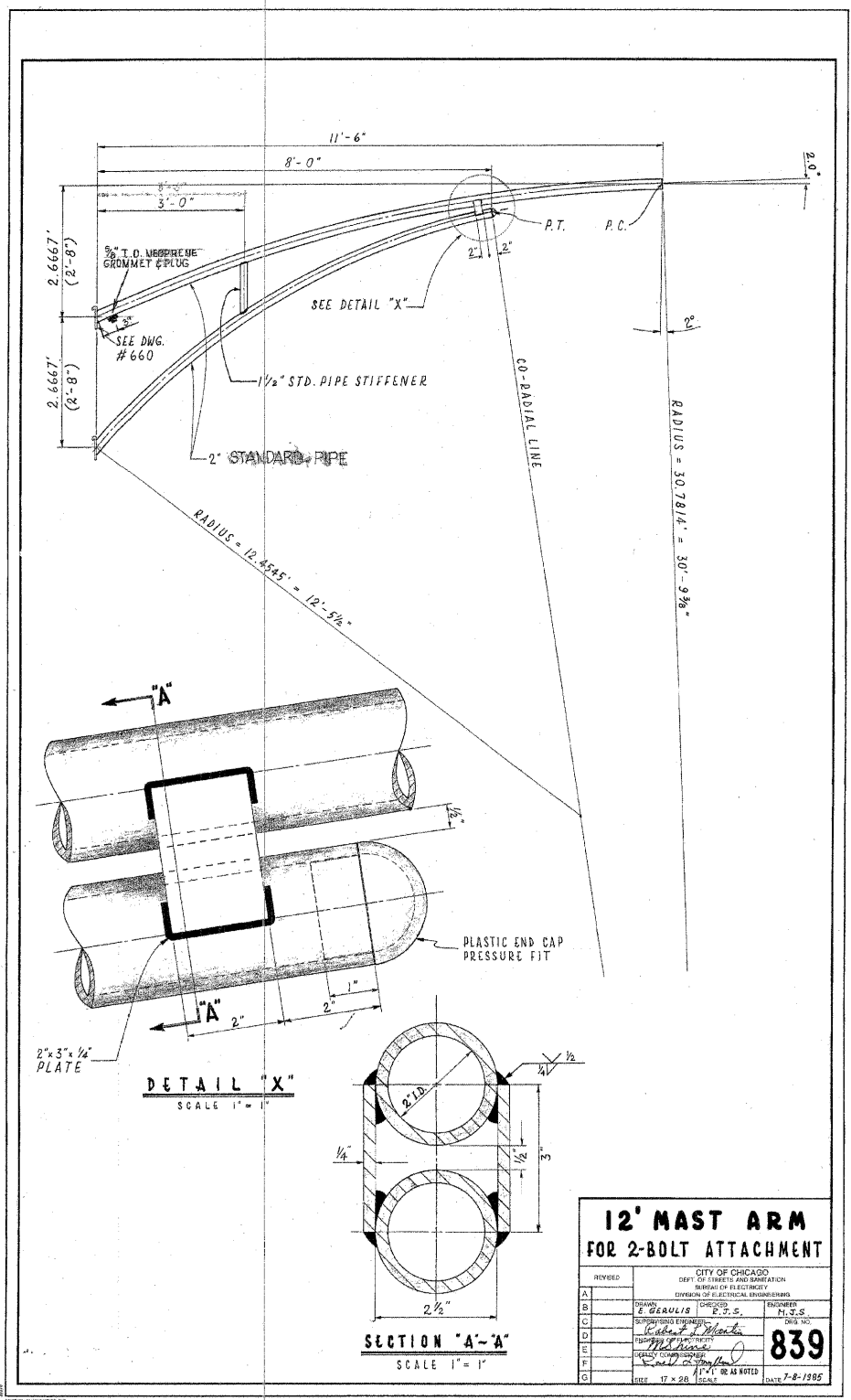
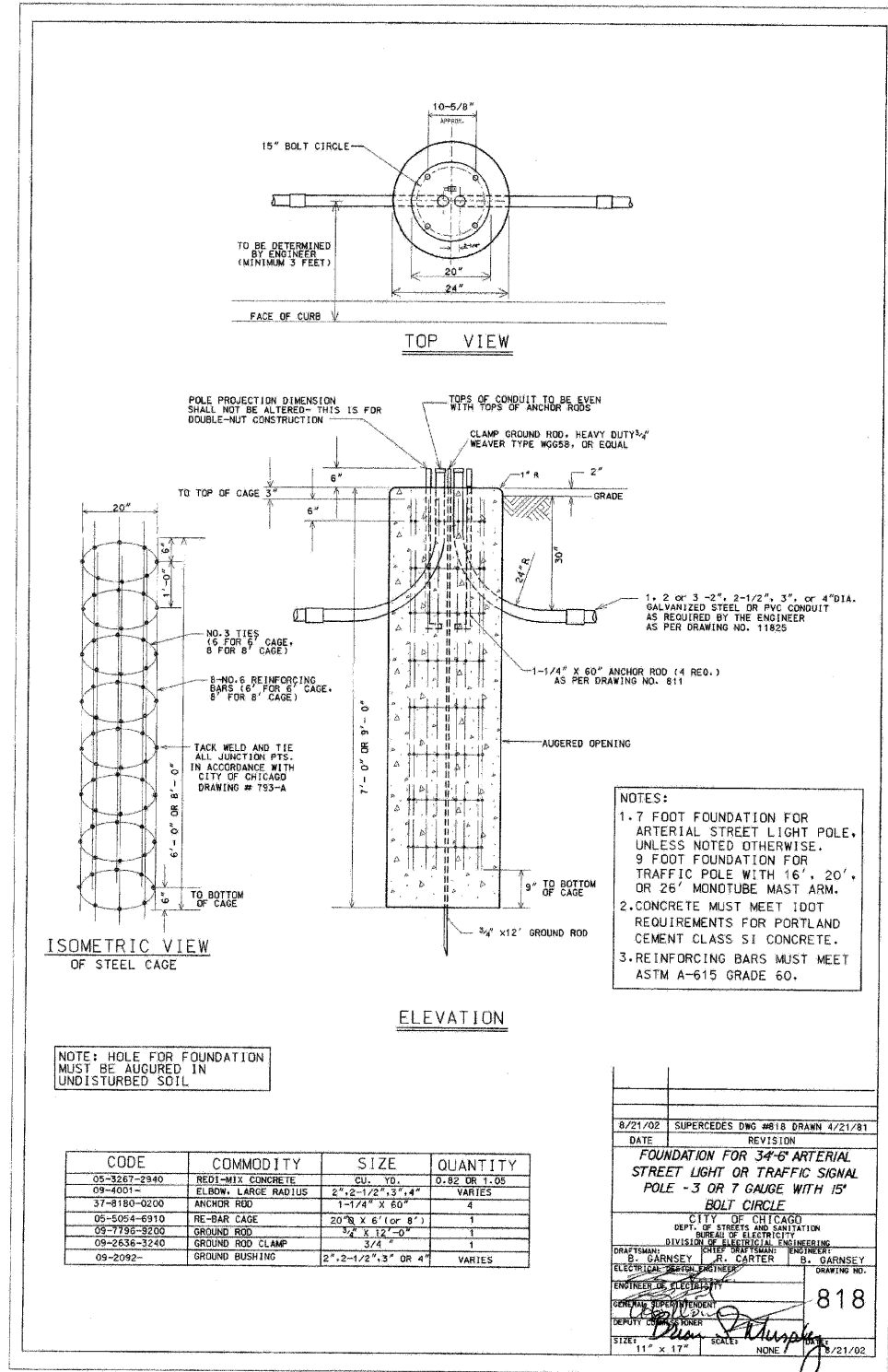
ILLINOIS DEPARTMENT OF TRANSPORTATION
111TH STREET OVER
F.A.I. ROUTE 57 (INTERSTATE 57)
ELECTRICAL STANDARD DETAILS

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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ES-05



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ES-06

REVISIONS	
NAME	DATE

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

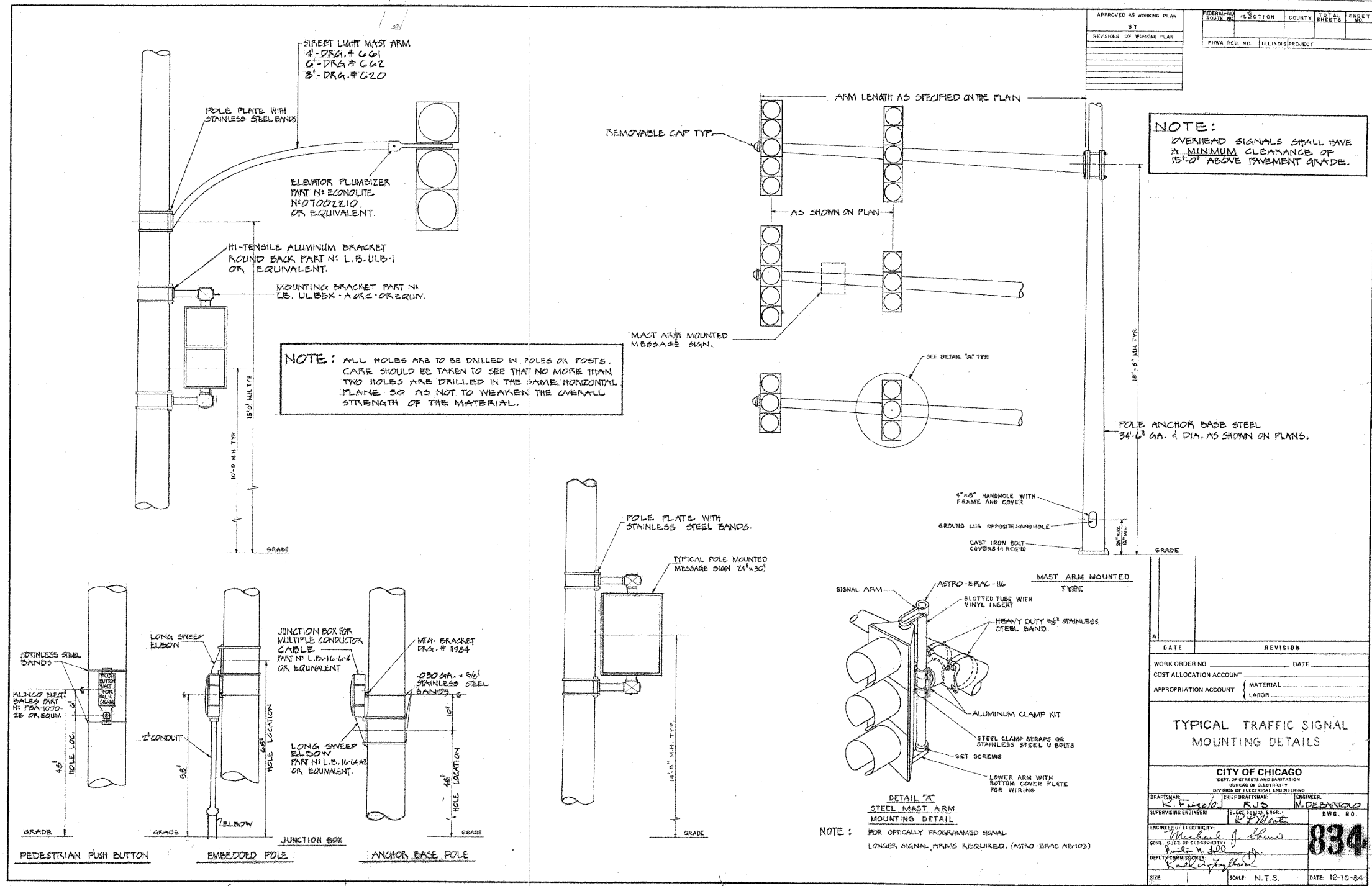
ELECTRICAL STANDARD DETAILS

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: 312/516-0600



APPROVED AS WORKING PLAN	FEDERAL-AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
BY					
REVISIONS OF WORKING PLAN	FHWA REC. NO.	ILLINOIS PROJECT			

NOTE:
OVERHEAD SIGNALS SHALL HAVE A MINIMUM CLEARANCE OF 15'-0" ABOVE PAVEMENT GRADE.

DATE	REVISION

WORK ORDER NO. _____ DATE _____
COST ALLOCATION ACCOUNT _____
APPROPRIATION ACCOUNT _____ MATERIAL _____ LABOR _____

TYPICAL TRAFFIC SIGNAL MOUNTING DETAILS

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

DRAFTSMAN: *R. F. Fugate* RJS M. DEBONO
SUPERVISING ENGINEER: _____
ENGINEER: _____
DWG. NO. **834**

ENGINEER OF ELECTRICITY: *Michael J. Shuman*
DEPT. OF ELECTRICITY: _____
DEPUTY COMMISSIONER: *K. M. [Signature]*
DATE: 12-10-84

REVISIONS	
NAME	DATE

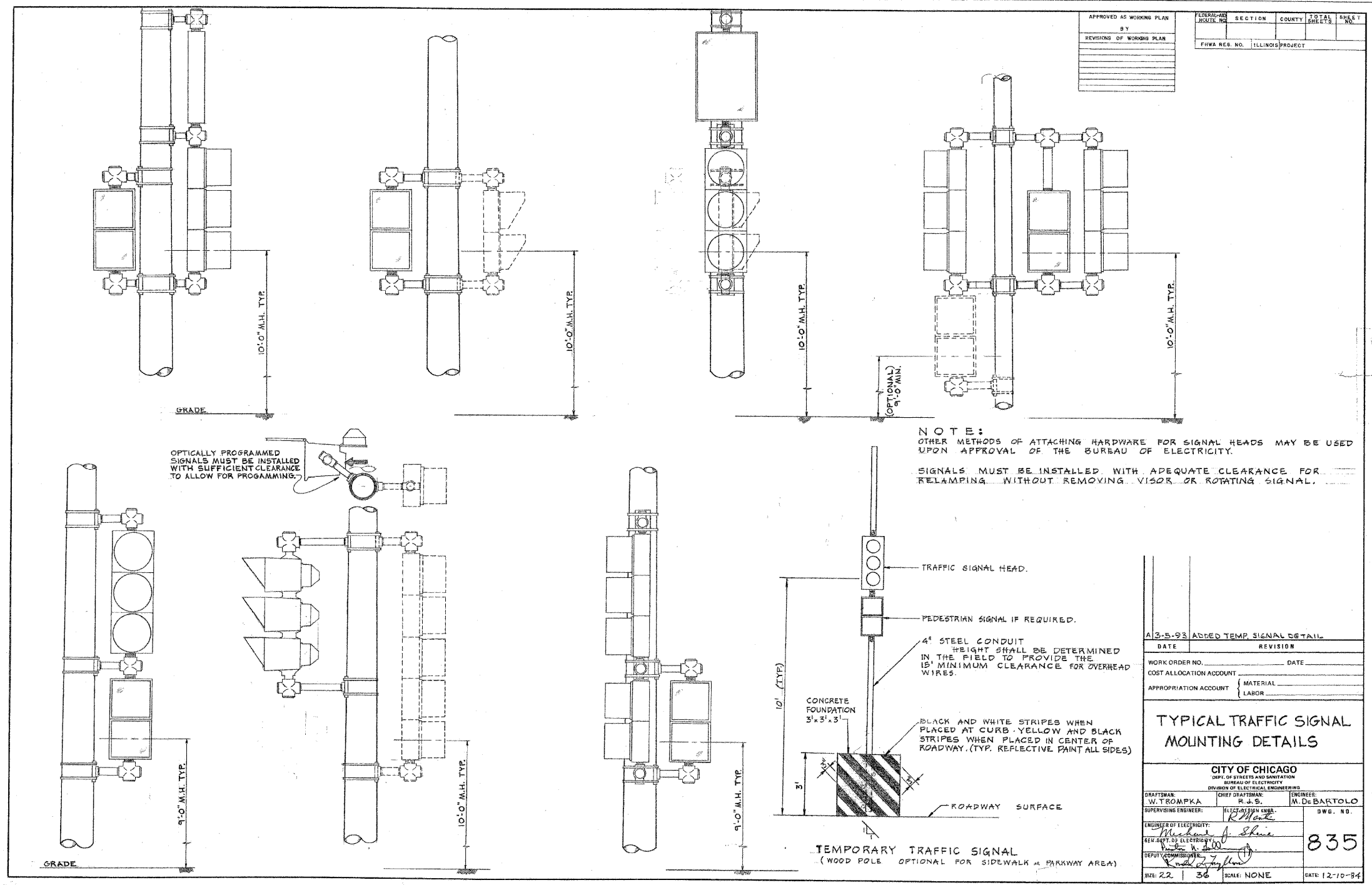
ILLINOIS DEPARTMENT OF TRANSPORTATION
111TH STREET OVER
F.A.I. ROUTE 57 (INTERSTATE 57)
ELECTRICAL STANDARD DETAILS

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: 312/511-0000

NORTH ST BOYD/DEP.DON
116-2009, 114744
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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				



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 116-2005, 147277
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ES-09

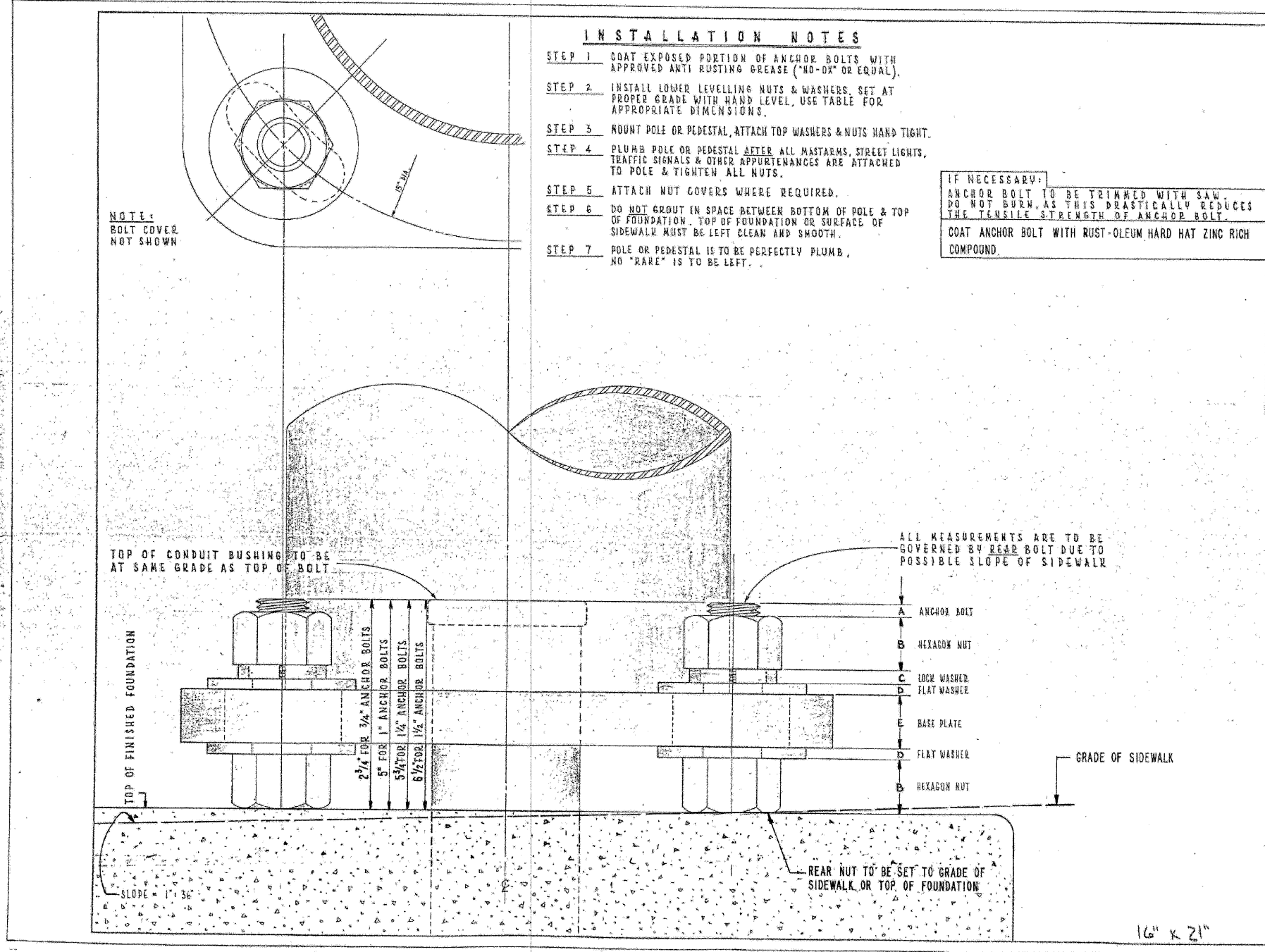
REVISIONS	
NAME	DATE

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

ELECTRICAL STANDARD DETAILS

SCALE: NONE 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: 312/618-0000



INSTALLATION NOTES

- STEP 1 COAT EXPOSED PORTION OF ANCHOR BOLTS WITH APPROVED ANTI RUSTING GREASE ("NO-OX" OR EQUAL).
- STEP 2 INSTALL LOWER LEVELLING NUTS & WASHERS. SET AT PROPER GRADE WITH HAND LEVEL. USE TABLE FOR APPROPRIATE DIMENSIONS.
- STEP 3 MOUNT POLE OR PEDESTAL, ATTACH TOP WASHERS & NUTS HAND TIGHT.
- STEP 4 PLUMB POLE OR PEDESTAL AFTER ALL MASTARMS, STREET LIGHTS, TRAFFIC SIGNALS & OTHER APPURTENANCES ARE ATTACHED TO POLE & TIGHTEN ALL NUTS.
- STEP 5 ATTACH NUT COVERS WHERE REQUIRED.
- STEP 6 DO NOT GROUT IN SPACE BETWEEN BOTTOM OF POLE & TOP OF FOUNDATION. TOP OF FOUNDATION OR SURFACE OF SIDEWALK MUST BE LEFT CLEAN AND SMOOTH.
- STEP 7 POLE OR PEDESTAL IS TO BE PERFECTLY PLUMB, NO "KARE" IS TO BE LEFT.

IF NECESSARY, ANCHOR BOLT TO BE TRIMMED WITH SAW. DO NOT BURN, AS THIS DRASTICALLY REDUCES THE TENSILE STRENGTH OF ANCHOR BOLT.
COAT ANCHOR BOLT WITH RUST-OLEUM HARD HAT ZINC RICH COMPOUND.

		ANCHOR BOLT SIZE					
		1"	1 1/4"	1 1/2"	1 3/4"	2"	2 1/2"
UNIT	POLE GAUGES						
		7 GA. 3 GA.	7 GA. 3 GA.	7 GA. 3 GA.	7 GA. 3 GA.	7 GA. 3 GA.	7 GA. 3 GA.
A		7/16"	7/16"	1 1/8"	1 1/8"	1 1/8"	3/4"
B		1"	1"	1 1/4"	1 1/4"	1 1/2"	3/4"
C		1/4"	1/4"	3/16"	3/16"	3/8"	3/16"
D		5/32"	5/32"	1/4"	1/4"	1/4"	5/32"
E		1"	1"	1 1/4"	1 1/2"	1 3/4"	5/8"

NOTE: BOLT COVER NOT SHOWN

TOP OF CONDUIT BUSHING TO BE AT SAME GRADE AS TOP OF BOLT

ALL MEASUREMENTS ARE TO BE GOVERNED BY REAR BOLT DUE TO POSSIBLE SLOPE OF SIDEWALK

- A ANCHOR BOLT
- B HEXAGON NUT
- C LOCK WASHER
- D FLAT WASHER
- E BASE PLATE
- F FLAT WASHER
- G HEXAGON NUT

REAR NUT TO BE SET TO GRADE OF SIDEWALK OR TOP OF FOUNDATION

CONSTRUCTION METHOD FOR "DOUBLE-NUT" INSTALLATION OF POLES AND PEDESTALS

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

DESIGNED BY: EUGENE GERBILIS
SUPERVISING ENGINEER: EUGENE GERBILIS
DATE: 22/30/85

CHECKED BY: [Signature]
DATE: 1/1/85

PROJECT NO. 837
DATE: 6-7-85

16" x 21"

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 P-16-2009-148808
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REVISIONS	
NAME	DATE

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

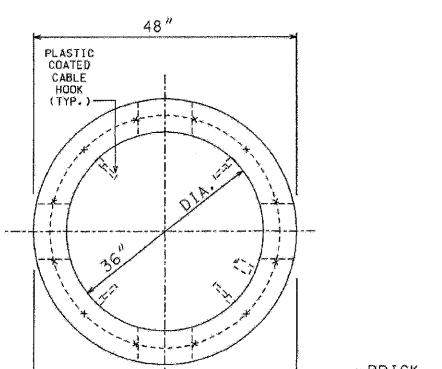
ELECTRICAL STANDARD DETAILS

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

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



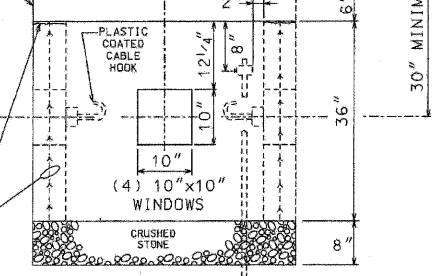
FRAME & COVER
DRG. #872

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

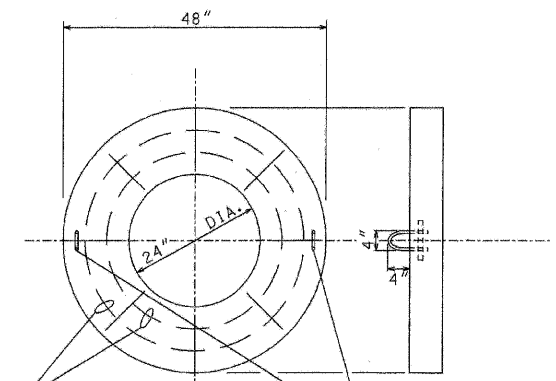
CODE NO.	MATERIALS	SIZE	QUAN.
(1) 05-6610-5312	PRE-CAST HANDHOLE	36" X 36"	
(2) 05-6610-5312	PRE-CAST ROOF	SEE DETAIL	1
05-9075-5470	STONE 3/4" CRUSHED SCREENINGS	BAG	5
05-1452-9720	BRICK		24
02-4299-5524	FRAME, MANHOLE	24"	1
02-4574-5624	COVER, MANHOLE	24"	1
09-7796-9312	GROUND ROD	3/4" X 12'	1
09-2636-3240	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.

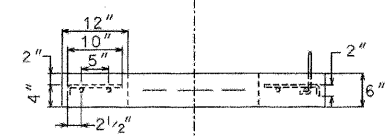
CONSTRUCTION NOTES:

- 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



(2) #4 REINFORCING
BARS USED AS
LIFTING EYES



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 ENGINEER		W. DEBARTOLO

DWG. NO. 866

DEPUTY COMMISSIONER
B. Murphy

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

\$\$\$CHHSPEC\$\$\$
\$\$\$FORASPEC\$\$\$
\$\$\$DWG#TENG\$\$\$

\$\$\$PENNSPEC\$\$\$

REVISIONS	
NAME	DATE

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

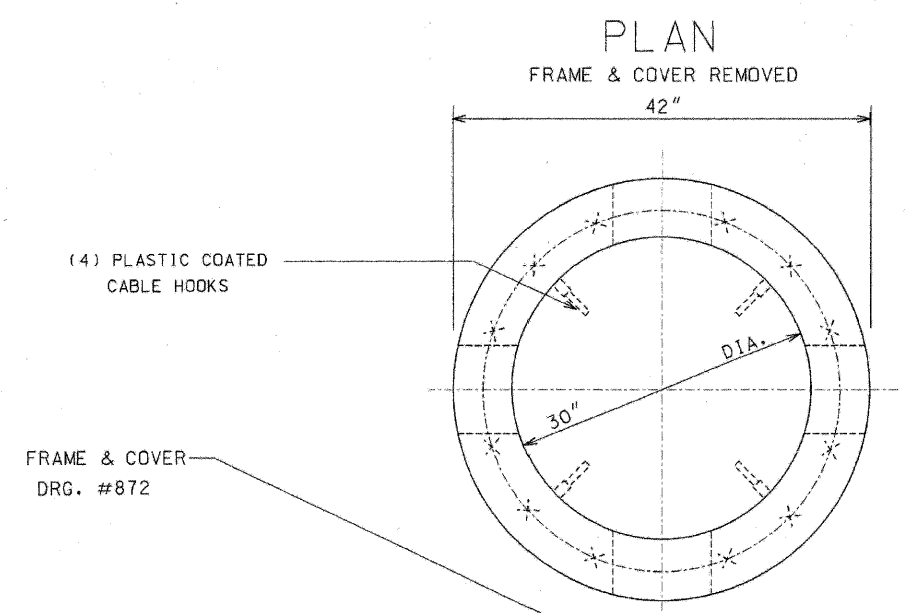
ELECTRICAL STANDARD DETAILS

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

ES-11

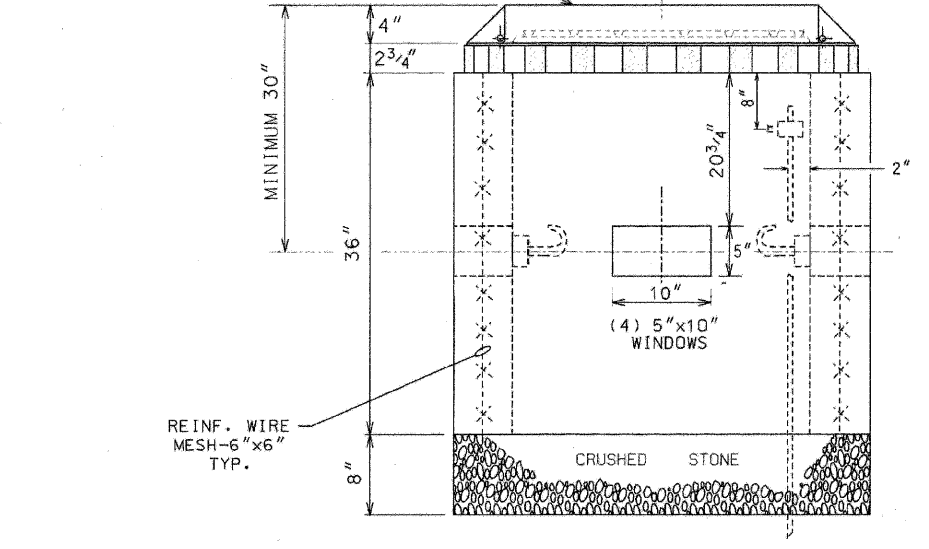
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 RECHT BR
 60 61 62 63



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			
BUREAU OF ELECTRICAL ENGINEERING			
DIVISION OF ELECTRICAL ENGINEERING			
DRAFTSMAN	CHIEF DRAFTSMAN	ENGINEER	TRAMPKA
M. PATTON	B. CARTER		DEBARTOLO
SUPERVISING ENGINEER	ELEC. DESIGN ENG.		
ENGINEER OF ELECTRICAL ENGINEERING			DWG. NO.
			867
DIVISION COMMISSIONER			
SR/RS	11"	17"	SCALE: NONE DATE: 12-8-95

\\NTP: ST BORDER.DGN... \P\W007.G00GN
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ES-12

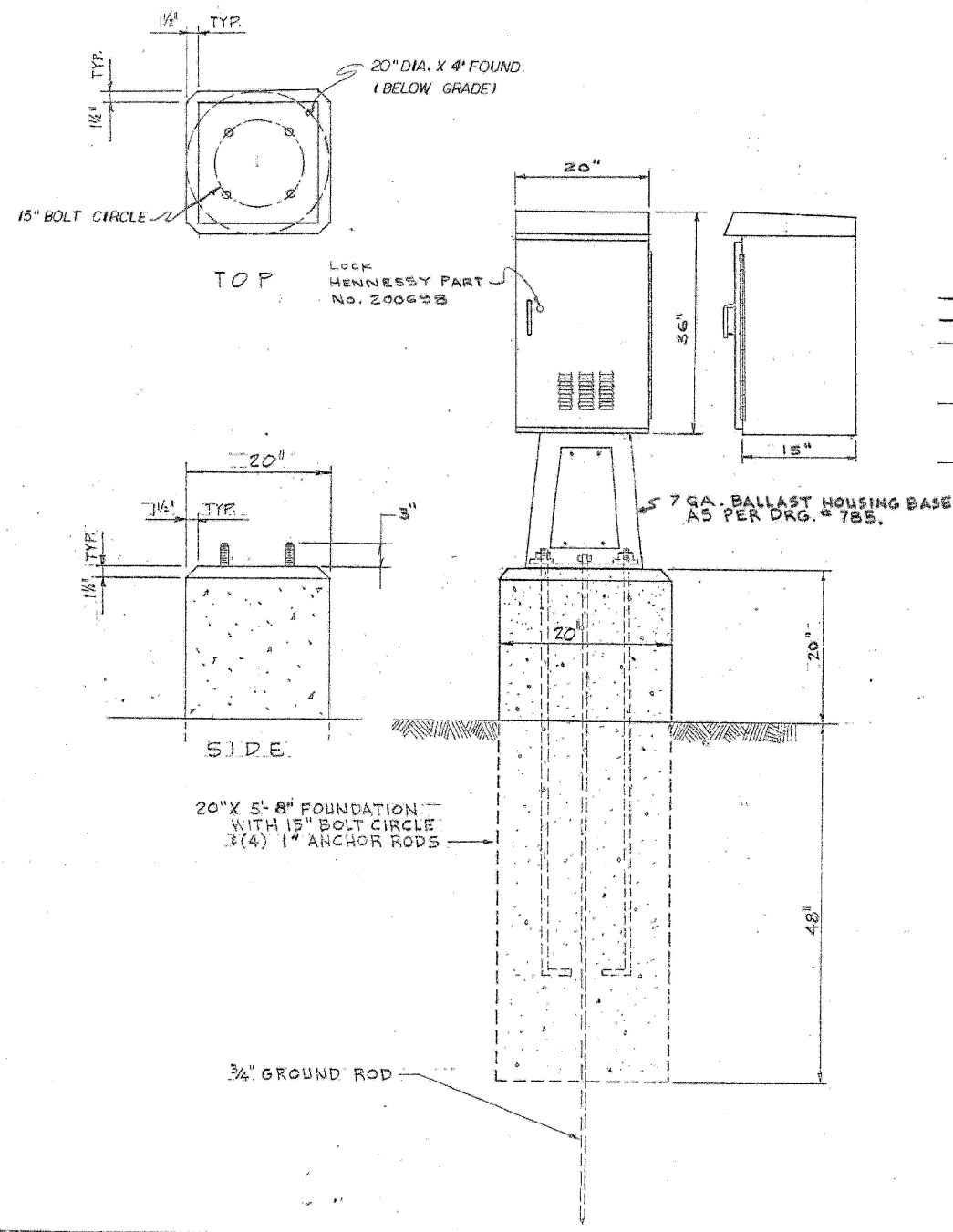
REVISIONS	
NAME	DATE

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" ϕ	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 DRG.

A 4-26-93 CAB. NO. CHANGED - CITY NAME REMOVED	
DATE	REVISION
100 AMP. BASE MOUNTED STREET LIGHT CONTROLLER	
CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING	
DRAFTSMAN: W. TROMPKA	CHIEF DRAFTSMAN: C.R.
SUPERVISING ENGINEER: D. Carlson	ENGINEER: M. DeBartolo
ENGINEER OF ELECTRICITY: A. Delello	DWG. NO.: 876
GEN'L. SUPT. OF ELECTRICITY: Kenneth J. ...	DEPUTY COMMISSIONER: ...
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)

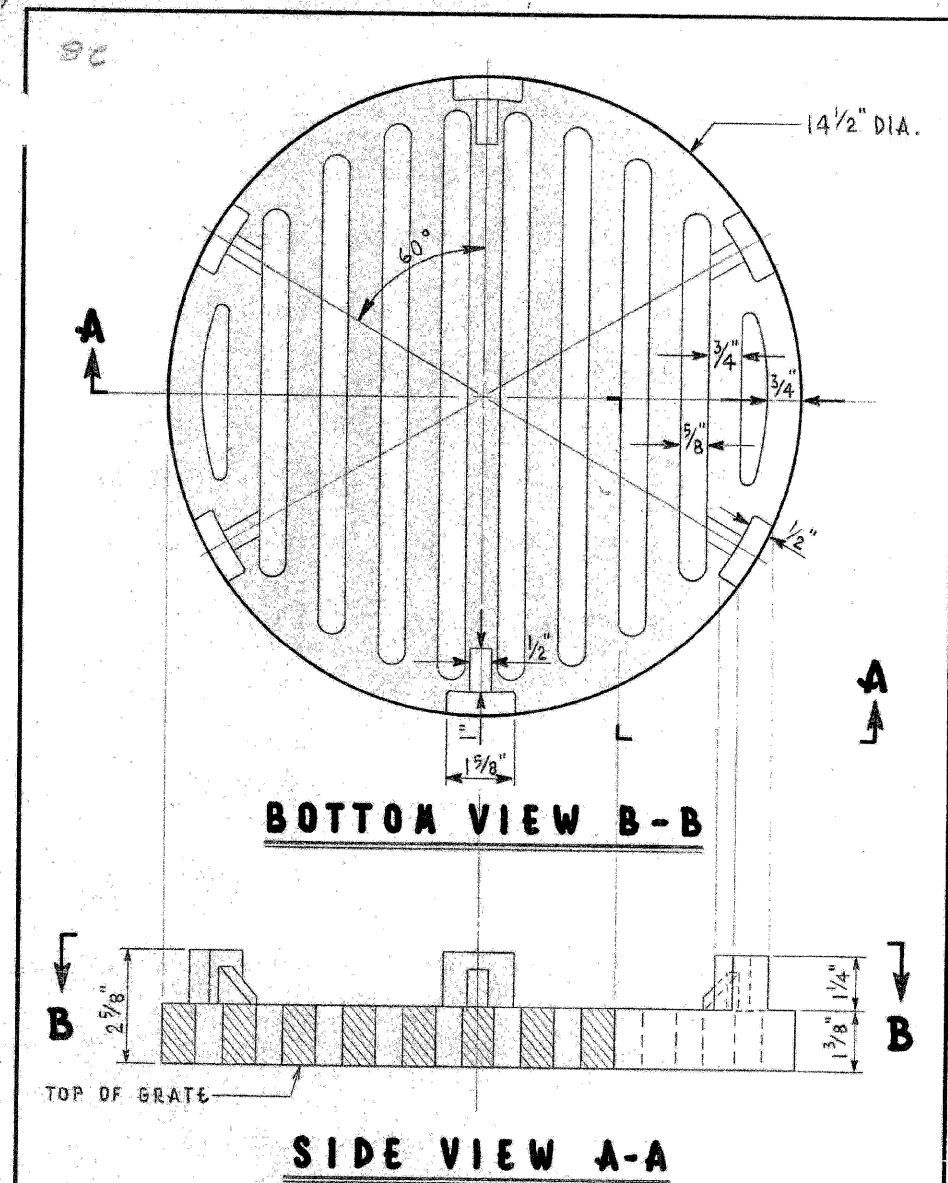
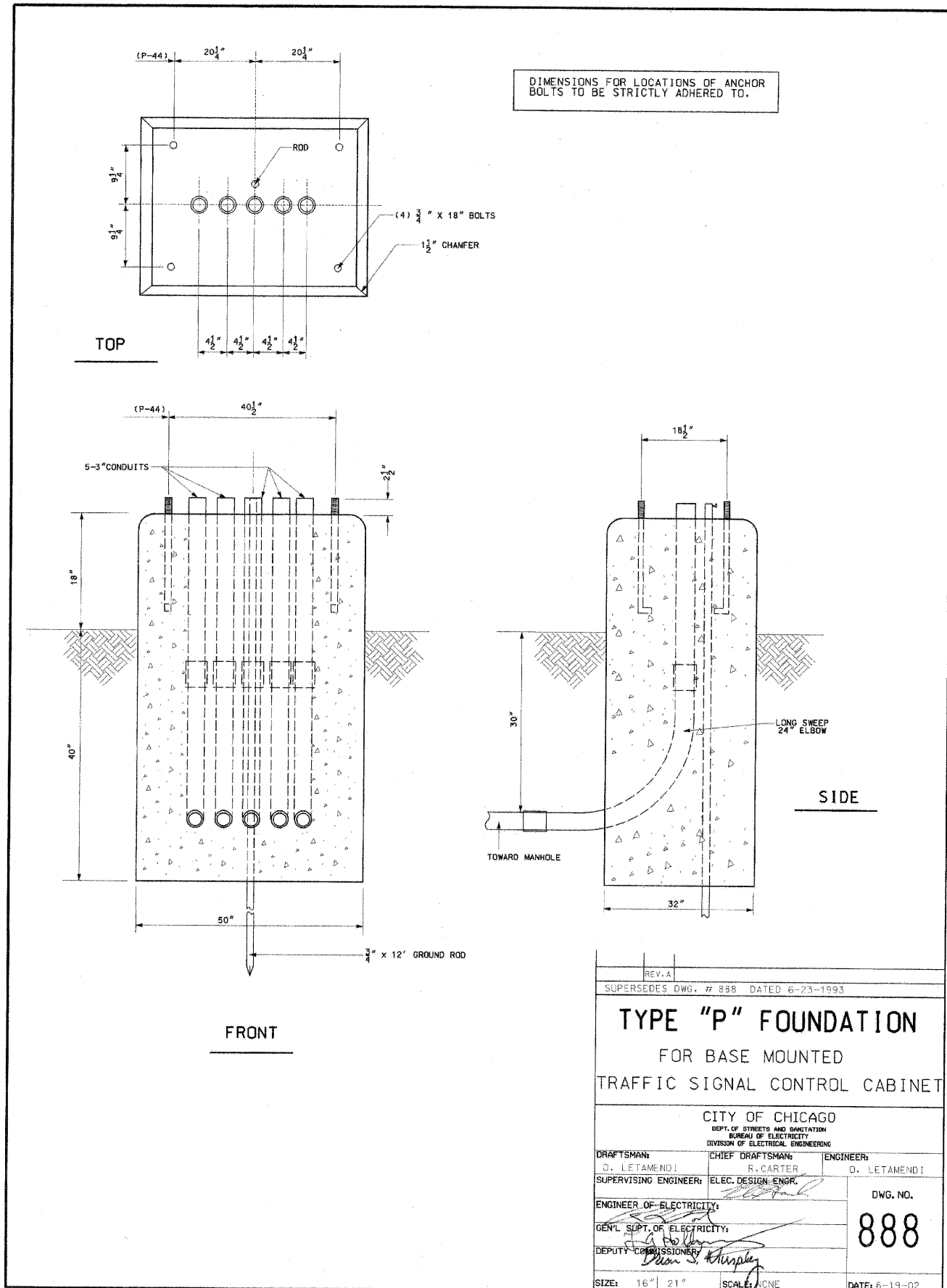
ELECTRICAL STANDARD DETAILS

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

NINTH ST BORER.DGN
 P:16-2009, 11/19/02
 T:\DOCUMENT\9530866\CIVIL\DON\KHO\9090.DGN
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 HECHTBR



MATERIAL: CAST IRON
APPROX. WT.: 34 LBS.

GRATE FOR SUMP			
CITY OF CHICAGO			
DEPT. OF STREETS AND SANITATION			
BUREAU OF ELECTRICITY			
DIVISION OF ELECTRICAL ENGINEERING			
DRAWN	CHECKED	ENGINEER	
E. GERULIS	M. SHINE	J. O'CONNOR	
ENG. OF ELEC.		DRG. NO.	
SUPD. OF SUMP			10792
DEPT. OF SUMP			
CHARLES C. BUCKLEY			
SIZE	8 1/2" x 14"	SCALE:	3/8" = 1" DATE 11-30-73

REVISIONS	
NAME	DATE

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

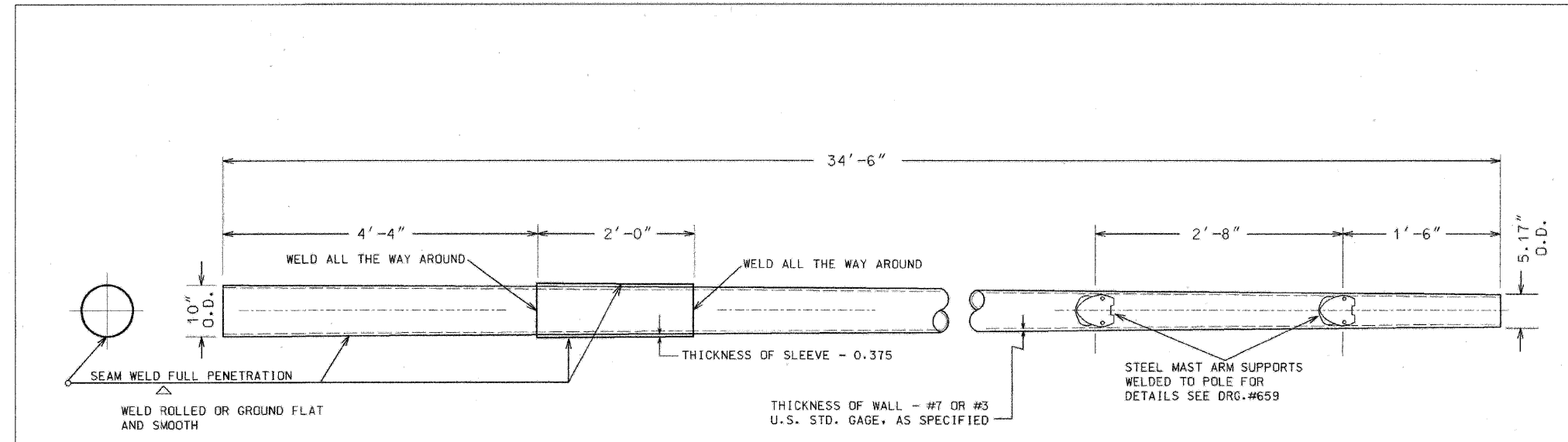
ELECTRICAL STANDARD DETAILS

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

*NORTH ST. BORDER.DGN
 T:\DOCUMENT\1930860\CIVIL\DRAWING\H08080.DGN
 HECHTER
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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

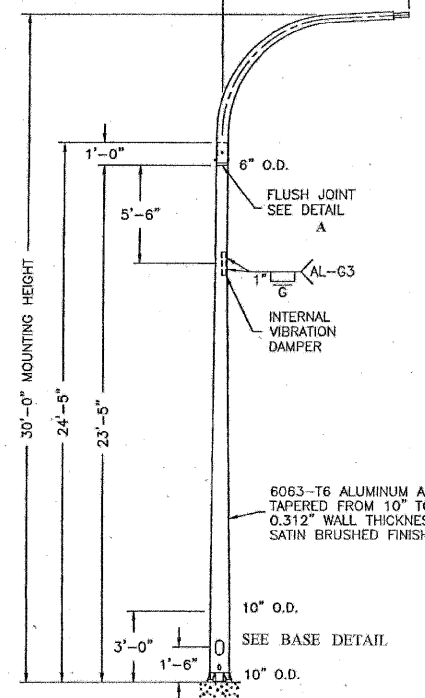
TENG

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

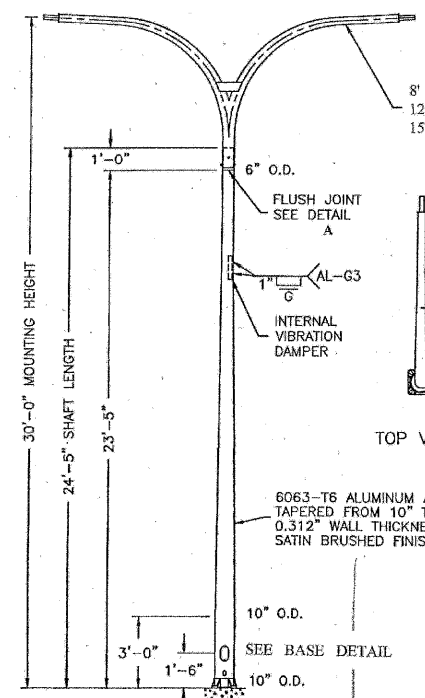
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.1B-R	COOK	101	053
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62532				

8' DAVIT ARM SEE DRG. #948
 12' DAVIT ARM SEE DRG. #949
 15' DAVIT ARM SEE DRG. #950



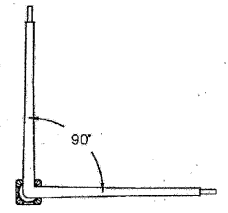
POLE WITH SINGLE DAVIT ARM

TOP VIEW (ARMS @ 180°)

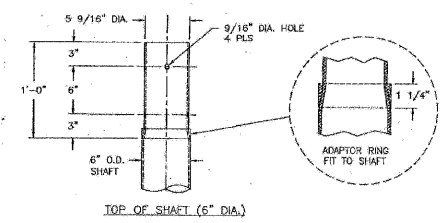


POLE WITH TWIN DAVIT ARMS

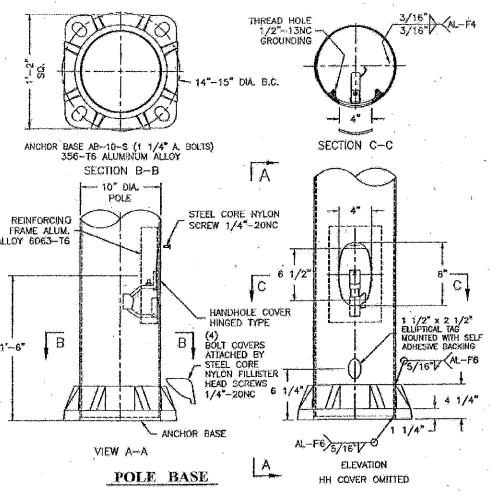
8' DAVIT ARM SEE DRG. #948
 12' DAVIT ARM SEE DRG. #949
 15' DAVIT ARM SEE DRG. #950



TOP VIEW (ARMS @ 90°)

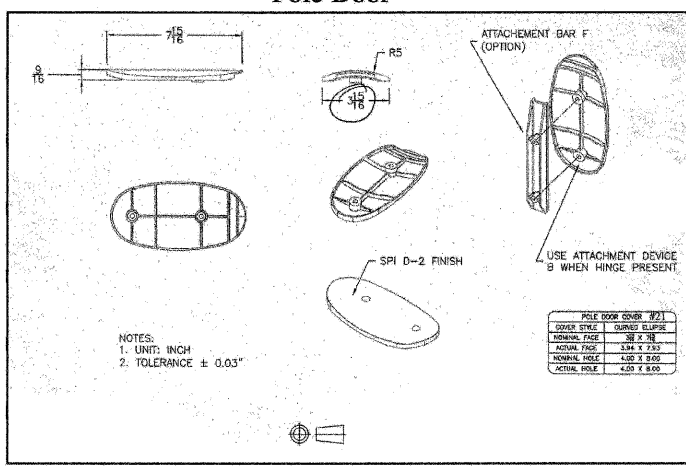


DETAIL A



POLE BASE

Pole Door



NOTES:
 1. UNIT: INCH
 2. TOLERANCE ± 0.03"

POLE DOOR (941)
DOOR FACE 10" X 6"
DOOR FRAME 10" X 6"
DOOR HOLE 4.50" X 6.00"
DOOR HOLE 4.50" X 6.00"

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]
 SUPERVISING ENGINEER: ELEC. OSBORN, EMMET
 ENGINEER: [Signature]
 DWG. NO.: 941
 DATE: 1-27-02

REVISIONS	
NAME	DATE

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

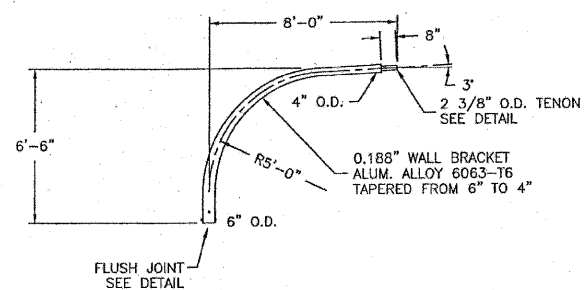
ELECTRICAL STANDARD DETAILS

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

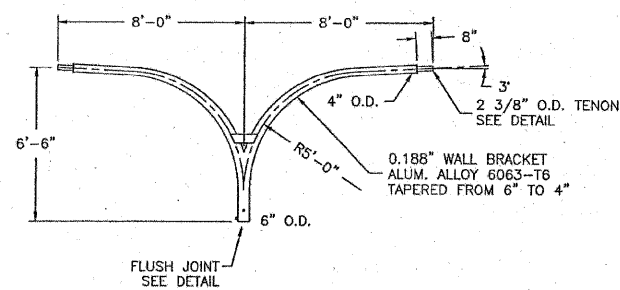
TENG
 TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 205 N. MICHIGAN AVE., CHICAGO, IL 60601
 TELEPHONE: 312/616-0000

111TH ST. BOSEBELDON
 FILE: 2009_1K2945
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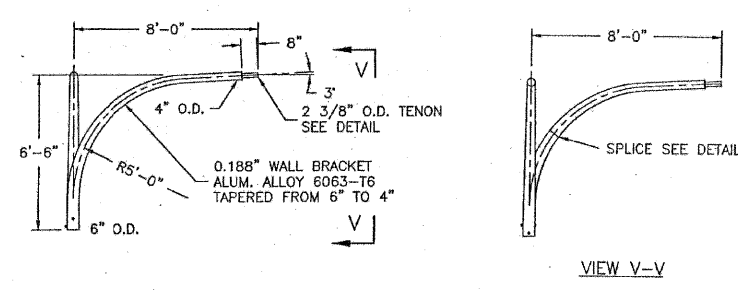
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.3-R	COOK	101	054
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62532				



SINGLE DAVIT ARM



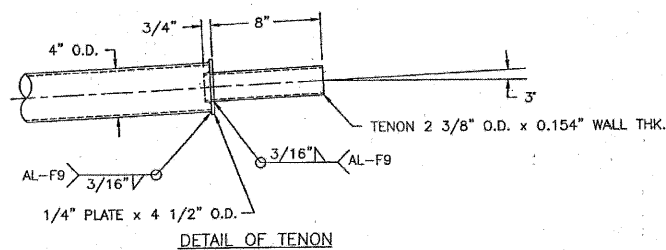
TWIN DAVIT ARM AT 180°



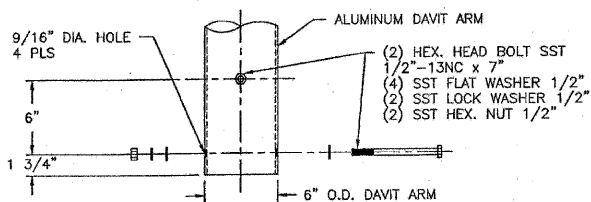
ELEVATION

VIEW V-V

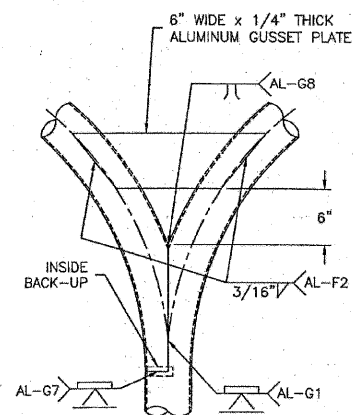
TWIN DAVIT ARM AT 90°



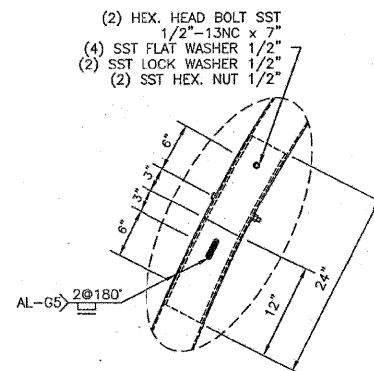
DETAIL OF TENON



DETAIL OF FLUSH JOINT



TWIN ARM (180°) WELD DETAIL



SPLICE DETAIL

ALUMINUM DAVIT ARM 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

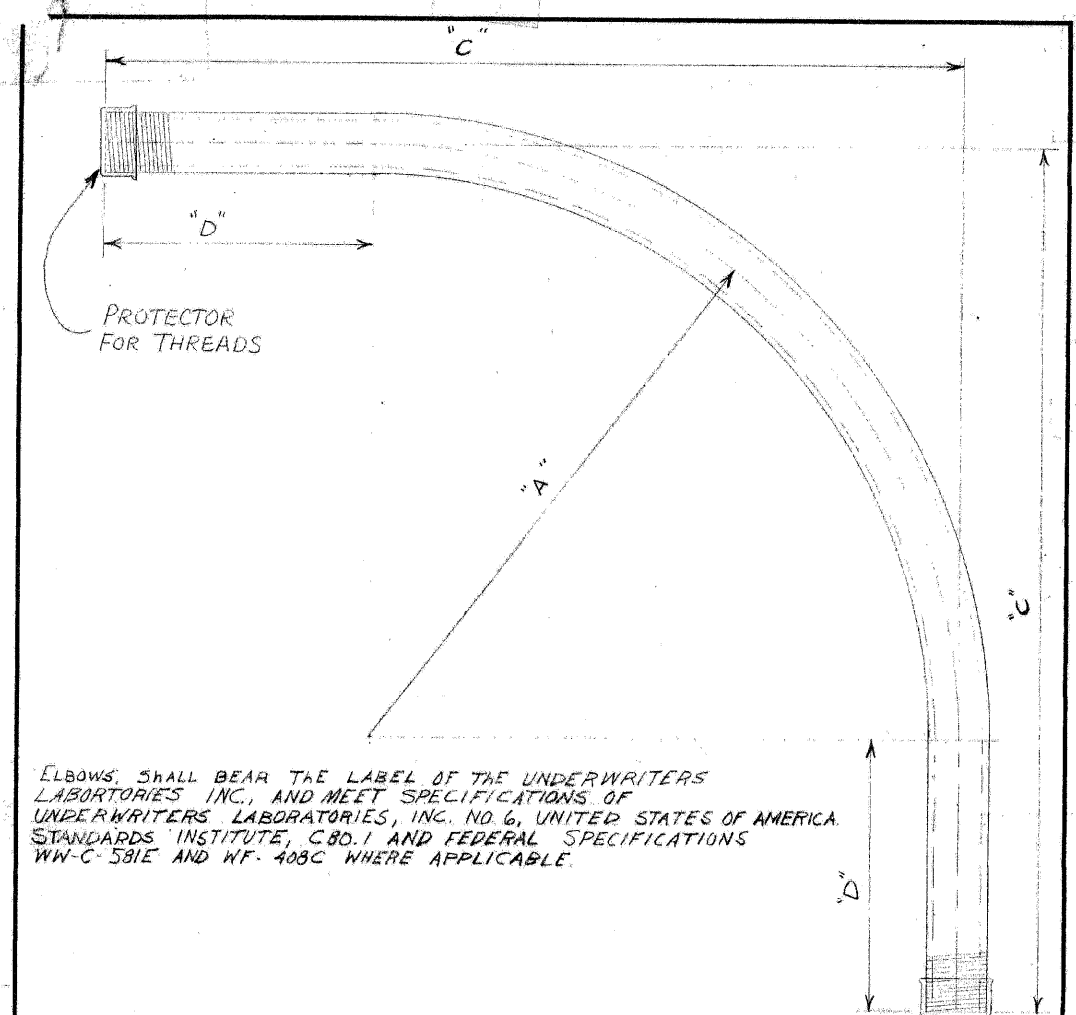
ILLINOIS DEPARTMENT OF TRANSPORTATION
111TH STREET OVER
F.A.I. ROUTE 57 (INTERSTATE 57)

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
 HECHTBR
 T:\DOCUMENT\1920860\CHICAGO\EXHIBIT\001\001.DWG
 11-12-03 14:15:16.17.18.19.20.21.22.23.24.25.26.27.28.29.30.31.32.33.34.35.36.37.38.39.40.41.42.43.44.45.46.47.48.49.50.51.52.53.54.55.56.57.58.59.60.61.62.63



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			
REVISED	DRAWN	CHECKED	ENGINEER
A 7-22-71	LON BURDY	M.S.	M. SHINE
B 4-3-79			
C			
D			
E			
F			
G			

DRG. NO. 11825
 DEPT. COMM. DATE 6-2-71
 SIZE 8 1/2" x 14" SCALE: 3/16"

<p>• 7 CONDUCTOR - T POINT STRIP •</p> <ul style="list-style-type: none"> 7 - COMMON WHITE 6 - WHITE BLK. TR. E & W RED 5 - BLACK - SOLID " " AMBER 4 - BLUE - " " GREEN 3 - RED - " " N & S RED 2 - ORANGE - " " AMBER 1 - GREEN - " " GREEN 	<p>• 14 CONDUCTOR - 10 POINT STRIP •</p> <ul style="list-style-type: none"> 10 - COMMON WHITE 9 - RED WHITE TRACER 8 - ORANGE " " 7 - GREEN " " 6 - RED BLACK TRACER 5 - ORANGE " " 4 - GREEN " " 3 - RED - SOLID 2 - ORANGE - SOLID 1 - GREEN - SOLID <p>GREEN BLUE TRACER ORANGE " " } SPliced & TAPed RED " " } BLACK - SOLID</p>	<p>• 22 CONDUCTOR - CODE • • 19 CODE - OMIT "19" "21" "22" •</p> <ul style="list-style-type: none"> 1 - WH RED/BLACK TR. COMMON 2 - WH RED/GREEN TR. COMMON (SPARE) 3 - R BLACK TR. NO. BOUND 4 - A " " " " 5 - G " " " " 6 - R SOLIDS 30. BOUND 7 - A " " " " 8 - G " " " " 9 - BK " " NEON OR ARROW 10 - R BLUE TR. EAST BOUND 11 - A " " " " 12 - G " " " " 13 - R WHITE TR. WEST BOUND 14 - A " " " " 15 - O " " " " 16 - BL SOLID - SPECIAL 17 - BL AMBER TR - " 18 - BL WHITE TR - " 19 - WH RED TR - " 20 - WH SOLID - " 21 - WH BLACK TR - " 22 - BK WHITE TR - " 																																
<p>• 10 CONDUCTOR - 7 POINT STRIP •</p> <ul style="list-style-type: none"> 7 - COMMON - WHITE 6 - RED BLK. TR. E & W RED 5 - ORANGE BLK. TR. " AMBER 4 - GREEN BLK. TR. " GREEN 3 - RED - SOLID N & S RED 2 - ORANGE - " " AMBER 1 - GREEN - " " GREEN <p>SOLID BLUE SOLID BLACK } SPliced & TAPed BLUE BLK. TR.</p>	<p>• 14 CONDUCTOR - 14 POINT STRIP •</p> <ul style="list-style-type: none"> 14 - COMMON WHITE 13 - BLACK 12 - RED - BLUE TRACER 11 - ORANGE - " " 10 - GREEN - " " 9 - RED - WHITE TRACER 8 - ORANGE - " " 7 - GREEN - " " 6 - RED - BLACK TRACER 5 - ORANGE - " " 4 - GREEN - " " 3 - SOLID RED 2 - SOLID ORANGE 1 - SOLID GREEN 	<p>• SPLIT CORNER •</p>																																
<p>• 10 CONDUCTOR - 10 POINT STRIP •</p> <ul style="list-style-type: none"> 10 - COMMON - WHITE 9 - BLUE BLK. TRACER * 8 - BLACK - SOLID * 7 - BLUE - SOLID * 6 - RED BLK. TRACER E & W RED 5 - ORANGE BLK. " " AMBER 4 - GREEN BLK. " " GREEN 3 - RED - SOLID N & S RED 2 - ORANGE - SOLID " AMBER 1 - GREEN - SOLID " GREEN <p>* - SOLID BLUE - GREEN LIGHT } IF USED * - SOLID BLACK - AMBER " } * - BLUE BLACK TR. RED "</p>	<p>• STRAIGHT CORNER •</p>	<p>TRAFFIC CONTROL SIGNALS STRIP WIRING LAYOUT</p> <table border="1"> <tr> <td>REVISED</td> <td colspan="3">CITY OF CHICAGO</td> </tr> <tr> <td>A 5-4-61</td> <td colspan="3">DEPT. OF STREETS AND SANITATION</td> </tr> <tr> <td>B 11-10-64</td> <td colspan="3">DIVISION OF ELECTRICAL OPERATION</td> </tr> <tr> <td>C</td> <td>27</td> <td>12268-A</td> <td></td> </tr> <tr> <td>D</td> <td></td> <td></td> <td></td> </tr> <tr> <td>E</td> <td></td> <td></td> <td></td> </tr> <tr> <td>F</td> <td></td> <td></td> <td></td> </tr> <tr> <td>G</td> <td>16"x21"</td> <td></td> <td>DATE 11-8-56</td> </tr> </table>	REVISED	CITY OF CHICAGO			A 5-4-61	DEPT. OF STREETS AND SANITATION			B 11-10-64	DIVISION OF ELECTRICAL OPERATION			C	27	12268-A		D				E				F				G	16"x21"		DATE 11-8-56
REVISED	CITY OF CHICAGO																																	
A 5-4-61	DEPT. OF STREETS AND SANITATION																																	
B 11-10-64	DIVISION OF ELECTRICAL OPERATION																																	
C	27	12268-A																																
D																																		
E																																		
F																																		
G	16"x21"		DATE 11-8-56																															

ARCH ST BORERS, INC.
 116-2009, 1050-22
 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63

REVISIONS	
NAME	DATE

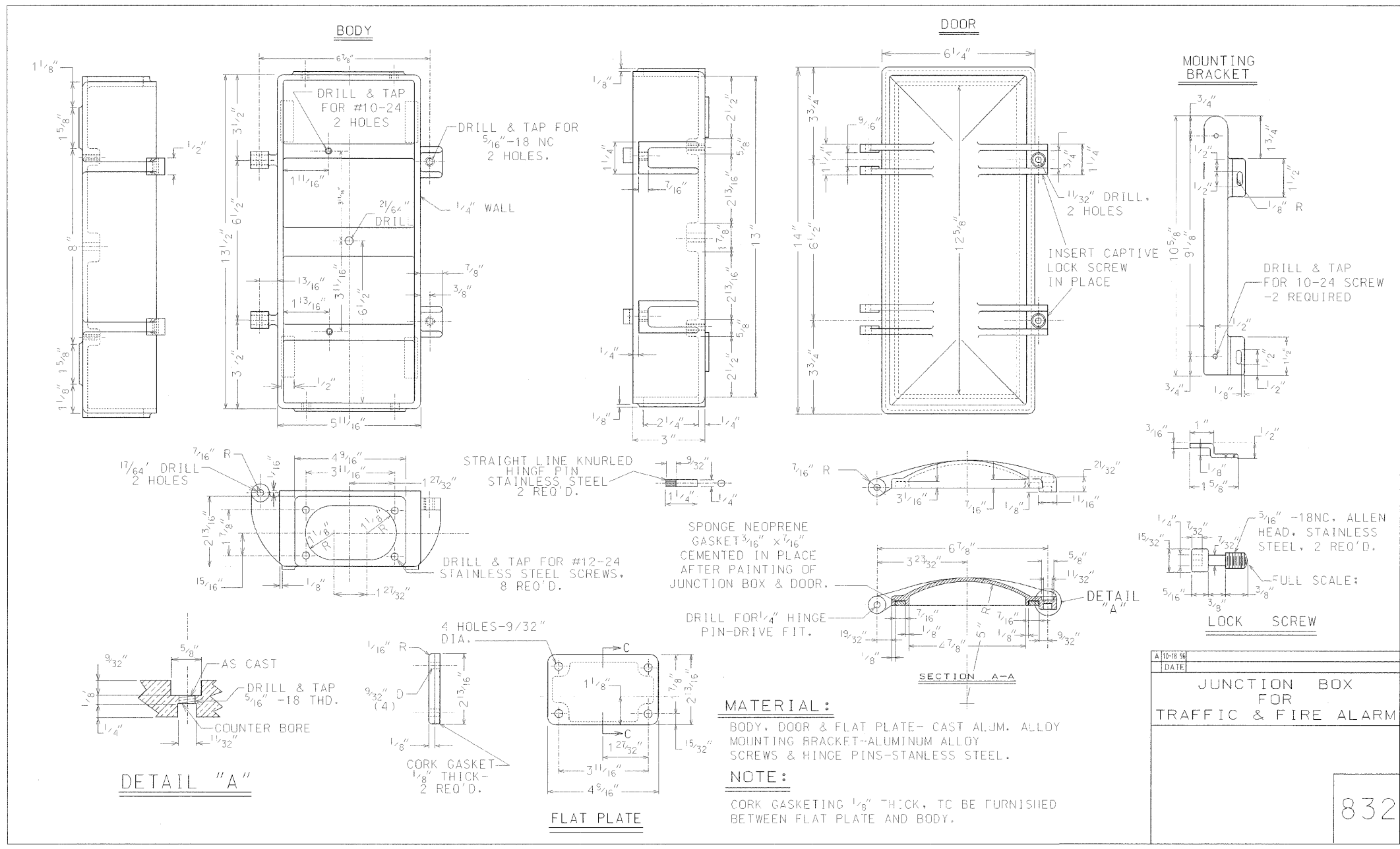
ILLINOIS DEPARTMENT OF TRANSPORTATION
 111TH STREET OVER
 F.A.I. ROUTE 57 (INTERSTATE 57)

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.1B-R	COOK	101	056
STA.	TO STA.			
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62532				



DATE	
JUNCTION BOX FOR TRAFFIC & FIRE ALARM	
832	

REVISIONS	
NAME	DATE

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

ELECTRICAL STANDARD DETAILS

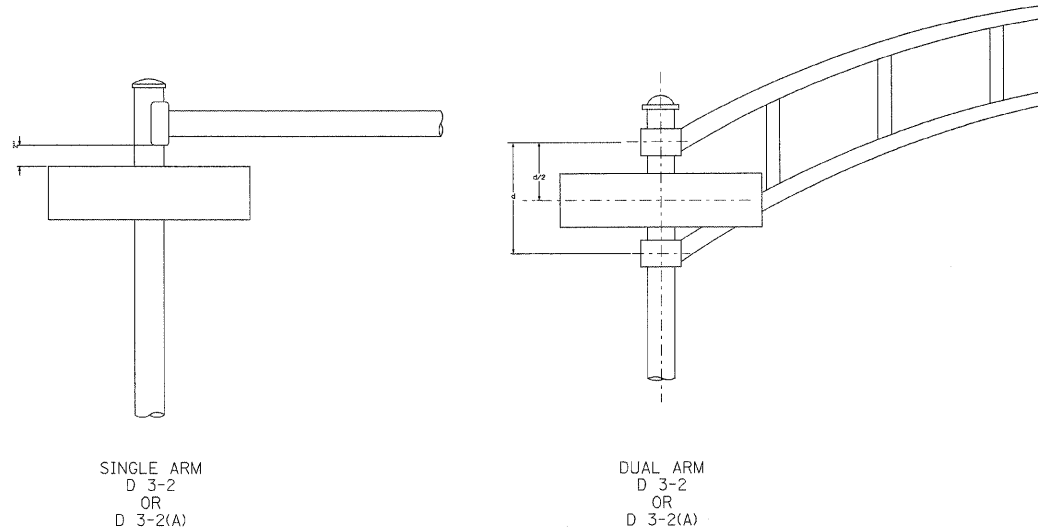
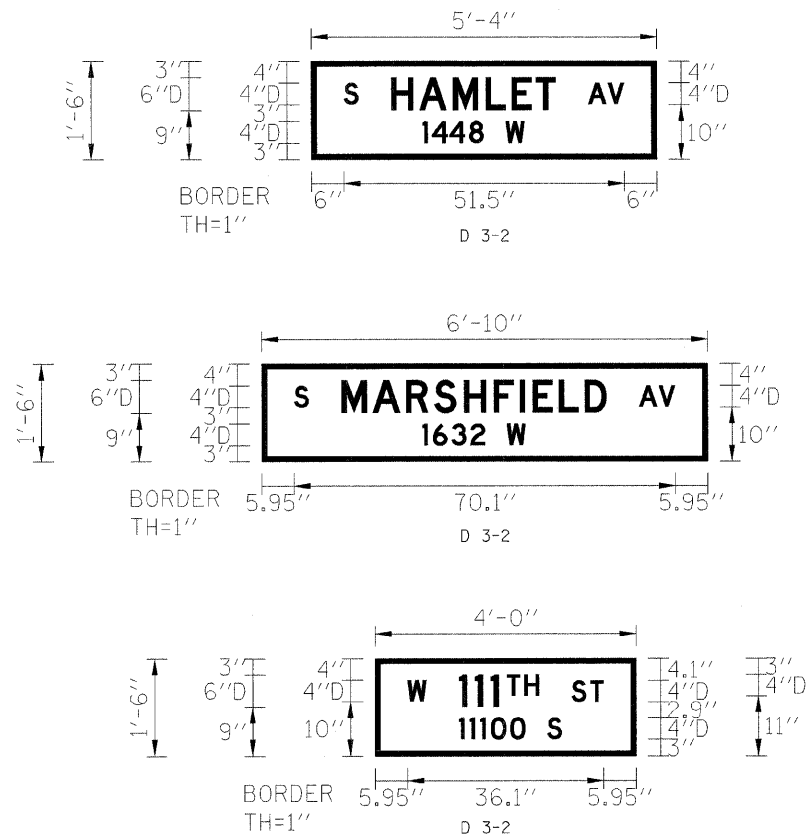
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DATE: 01/16/99
DRAWN BY: N/A
CHECKED BY: N/A

TENG

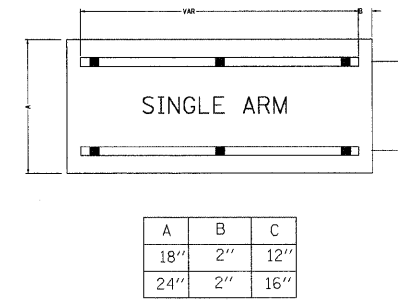
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE., CHICAGO, IL 60601
TELEPHONE: 312/415-0000

WITH ST. PROFFER, JR., INC. DRAWING NO. 100-001-001
 HECHTER
 1-2-3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63

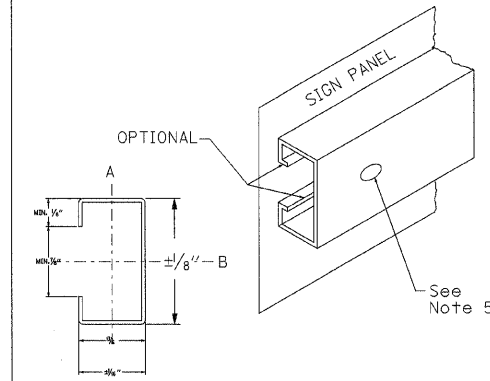
MOUNTING LOCATIONS



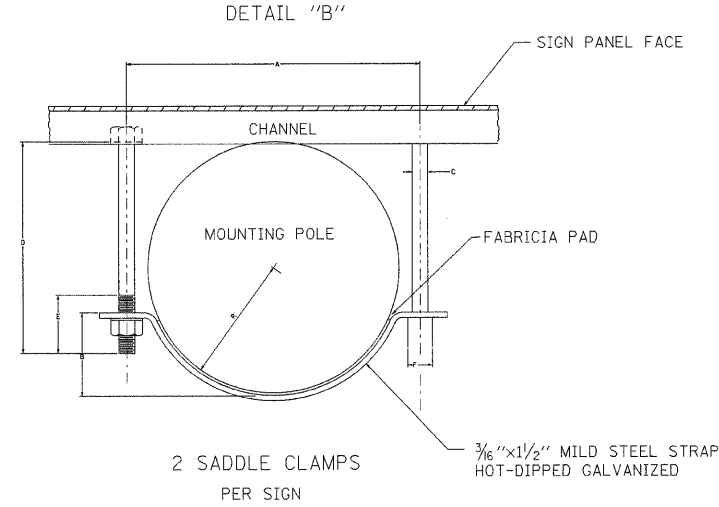
DETAIL "A"
SUPPORTING CHANNELS



STEEL (MILD STRIP, ASTM A525)
 Section modulus, axle A - .050 in³ minimum
 Section modulus, axle B - .105 in³ minimum
 Galvanized before forming in accordance with ASTM A525. Coating Designation G 90 or after forming in accordance with AASHTO M-232, class B-2
 or
 ALUMINUM (6061 T6 or 6063 T5 or T6)
 Section modulus, axle A - .150 in³ minimum
 Section modulus, axle B - .318 in³ minimum



- All mounting hardware, exclusive of supporting channels shall be zinc or cadmium plated steel or stainless steel.
- All bolts and nuts shall have National Coarse Thread (UNC).
- All signs mounted to supporting channels shall be attached with at least 5/16" diameter hex bolts.
- Horizontal supporting channels used to brace individual signs shall be located using the mounting holes prepunched in the sign blank.
- Mounting holes in the supporting channel shall be 5/16" diameter. Channel material with prepunched holes at 2" centers may be used.
- Sign panel to channel bolt centers should not exceed 2'-0".



SIGN TYPE	SIGN SIZE	D3-2 TYPE SIGN DIMENSIONS								LETTER SIZE LINES			BORDER
		A	B	C	D	E	F	G	H	1	2	3	
D3-2	VAR x 18	VAR	18"	1.0"	6.0"	3.0"	2.0"	4D	4"TO6"	6D	4D	-	1.0"
D3-2(a)	VAR x 24	VAR	24"	1.0"	6.0"	2.5"	1.5"	4D	4"TO6"	6D	4D	4D	1.0"

SPECIAL DESIGN SPECIFICATIONS

- The State of Illinois Department of Transportation standard specifications for traffic control items shall apply except where noted herein.
- The D3-2 and D3-2a sign length shall not be less than 4'-0" or greater than 6'-0". Sign length shall be determined by message copy, dictated by 6" capital letter series D, appropriate space chart layout, and the table of dimensions, where a required message layout would exceed maximum length of panel allowed the contractor shall layout to a reduced series stroke width. Letter series height shall remain as 6" capitals.
- Reflective sheeting shall conform to T602.01 TYPE A with green background and white letter and border.
- The sign panel shall conform to 601.01 TYPE 1. Supporting channels and panel to channel attachment hardware shall be in conformance to detail "A" of this plan sheet.
- Sign installation hardware shall be in conformance to detail "B" of this plan sheet.

MOUNTING POLE	D3-2 TYPE MOUNT DIMENSIONS						
	R	A	B	C	D	E	F
10"	4"	9"	2 5/8"	7/16"	7"	2 1/2"	1/2"
11"	4 1/2"	10"	3"	7/16"	7"	2 1/2"	1/2"
12 1/2"	5 1/4"	11 1/2"	3 1/2"	1/2"	8"	2"	3/16"

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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

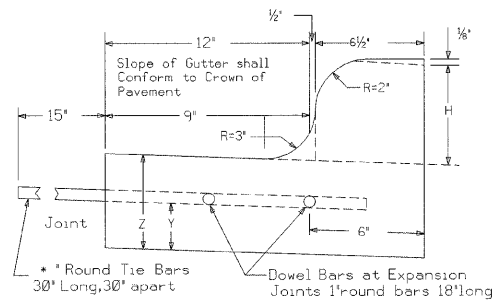
TENG
 TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 255 N. MICHIGAN AVE., CHICAGO, IL 60601
 TELEPHONE: 312/616-0000

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				

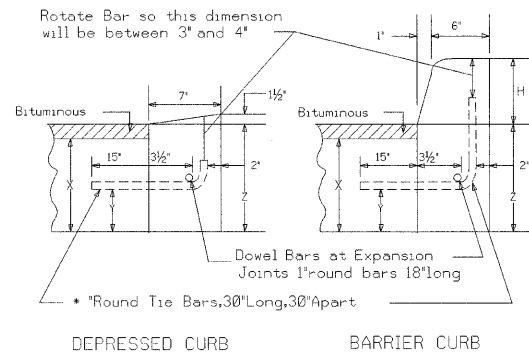
DETAILS OF P.C.C. CURB, GUTTER, COMBINED CURB & GUTTER, MODIFIED CURB & GUTTER

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



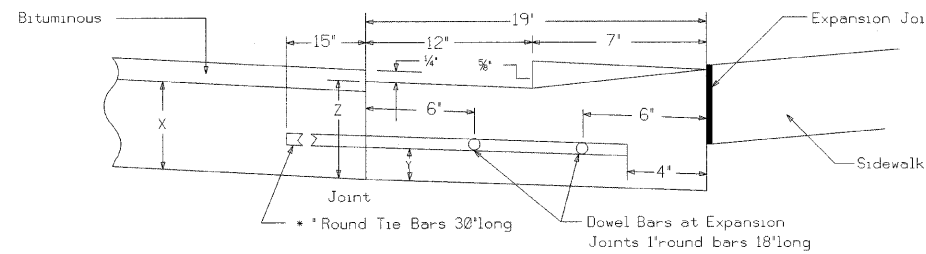
JOINTS IN CURB, GUTTER, COMBINED CURB & GUTTER

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:

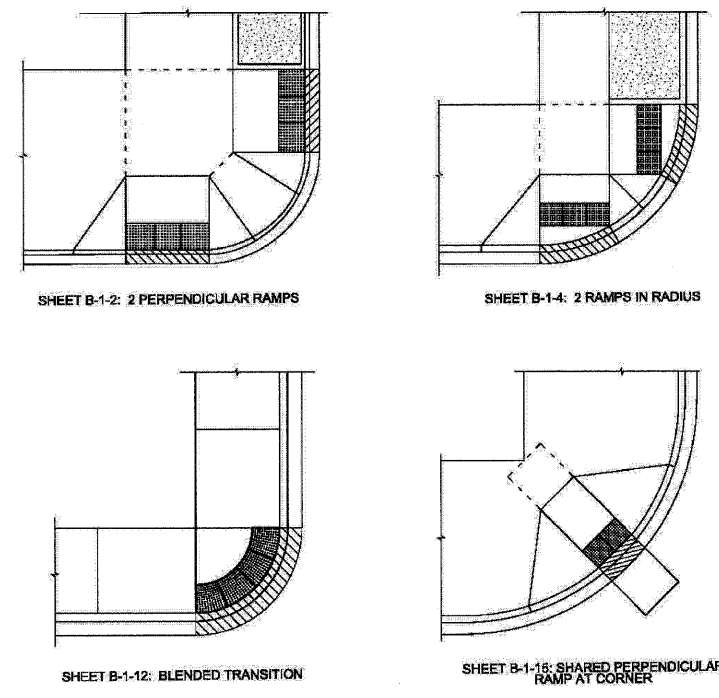
CURB RAMP LAYOUT B-1-2 IS PREFERRED WHEREVER POSSIBLE, WHERE RAMP IS LOCATED IN THE CORNER RADIUS, LAYOUT B-1-4 SHALL BE USED.

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 RAMP OR OTHER BARRIERS AND SHALL HAVE A CROSS SLOPE OF 1:84 MAXIMUM.

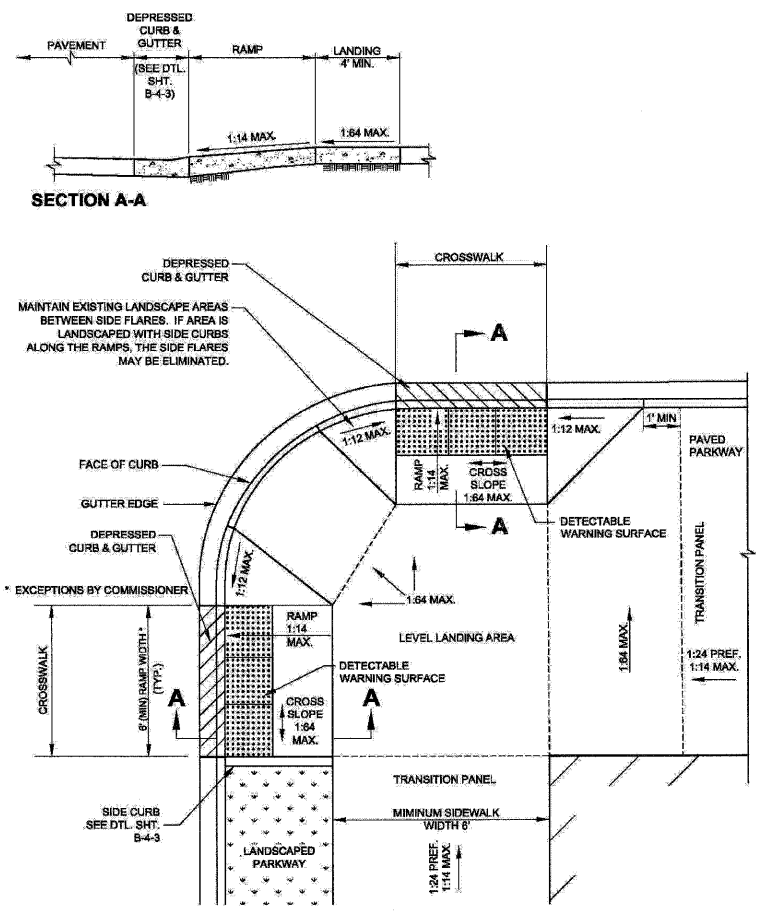
THE BLENDED TRANSITION LAYOUT B-1-12 MAY BE USED WHERE TWO RAMP ARE NOT POSSIBLE DUE TO GEOMETRIC CONSTRAINTS, SUCH AS LIMITED SIDEWALK WIDTH OR GRADE ELEVATIONS. THE BLENDED TRANSITION SHALL NOT BE USED IF ACCESS TO AN EXISTING FACILITY WOULD BE REDUCED.

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

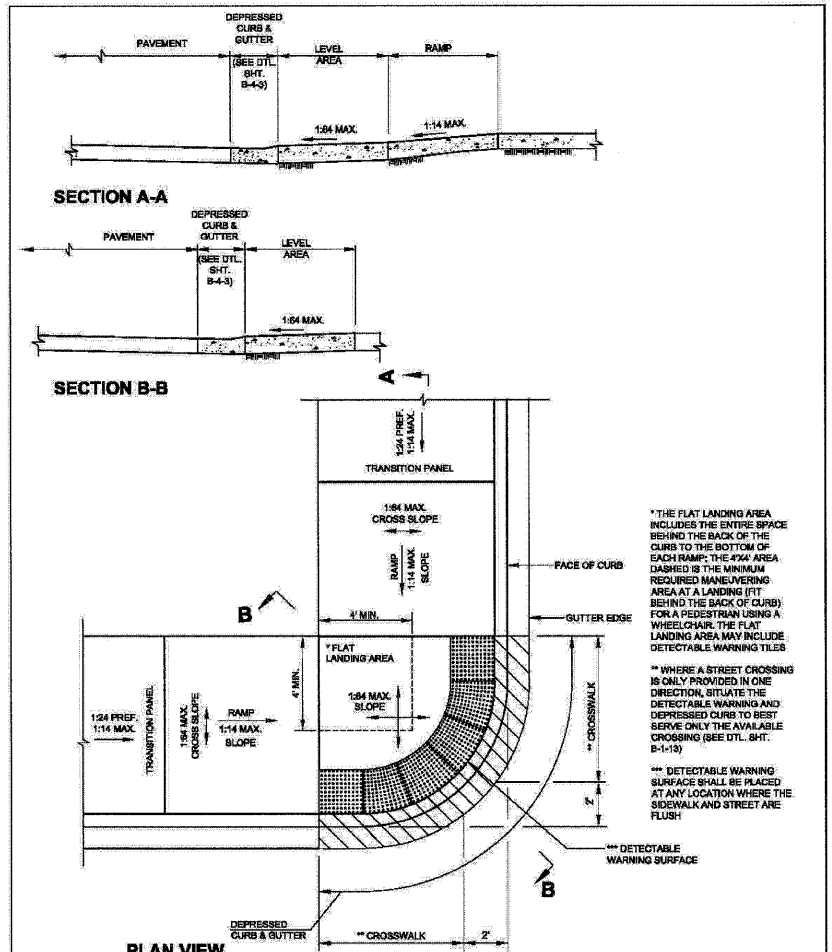
SEE SHEET B-3-3 FOR TRANSITION PANEL GUIDELINES



	DATE	REVISION	CITY OF CHICAGO TYPICAL CORNER RAMP LAYOUTS SHEET B-1-1	SCALE: NOT TO SCALE DATE: 10/25/2008	DRAWN BY: CDOT CHECKED BY: LCM
	02/20/07	REVISION 1			
	11/15/07	REVISION 2			
	11/14/08	REVISION 3			



	DATE	REVISION	CITY OF CHICAGO 2 PERPENDICULAR RAMP FOR CORNER WHERE CROSSWALKS DO NOT INTERSECT SHEET B-1-2	SCALE: NOT TO SCALE DATE: 10/25/2008	DRAWN BY: CDOT CHECKED BY: LCM
	02/20/07	REVISION 1			
	11/15/07	REVISION 2			
	11/14/08	REVISION 3			



	DATE	REVISION	CITY OF CHICAGO BLENDED TRANSITION SHEET B-1-12	SCALE: NOT TO SCALE DATE: 10/25/2008	DRAWN BY: CDOT CHECKED BY: LCM
	02/20/07	REVISION 1			
	11/15/07	REVISION 2			
	11/14/08	REVISION 3			

REVISIONS	
NAME	DATE

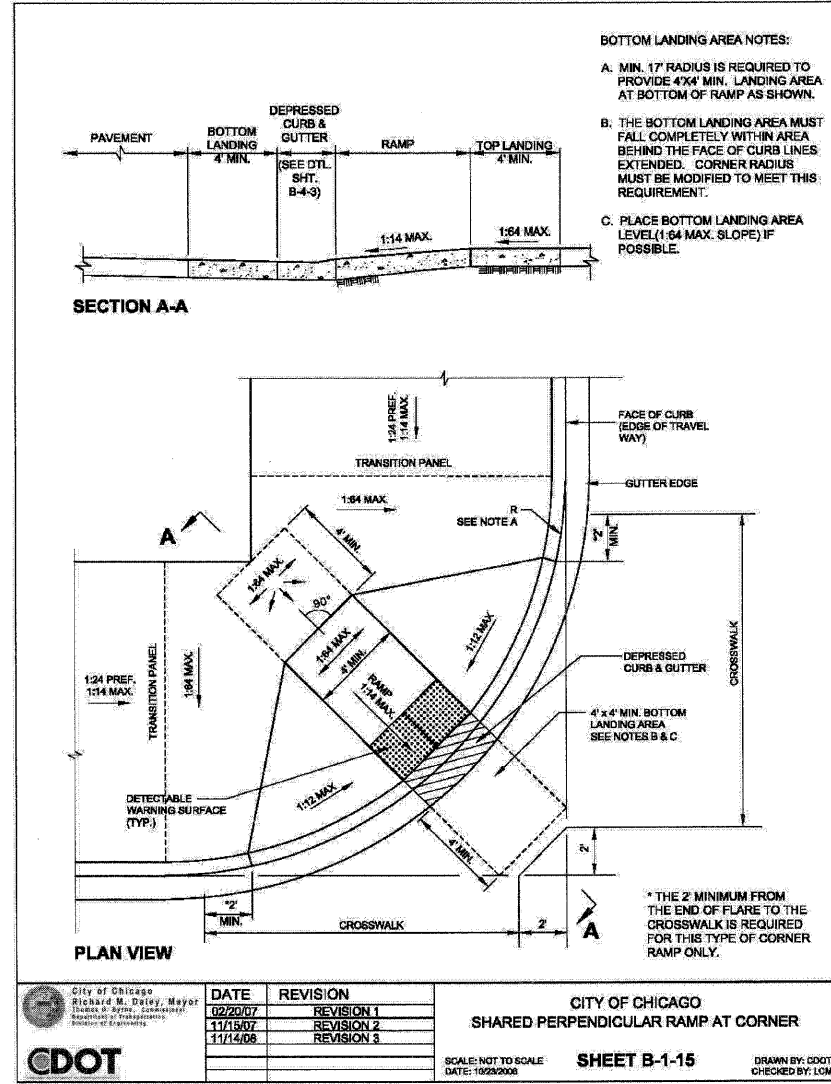
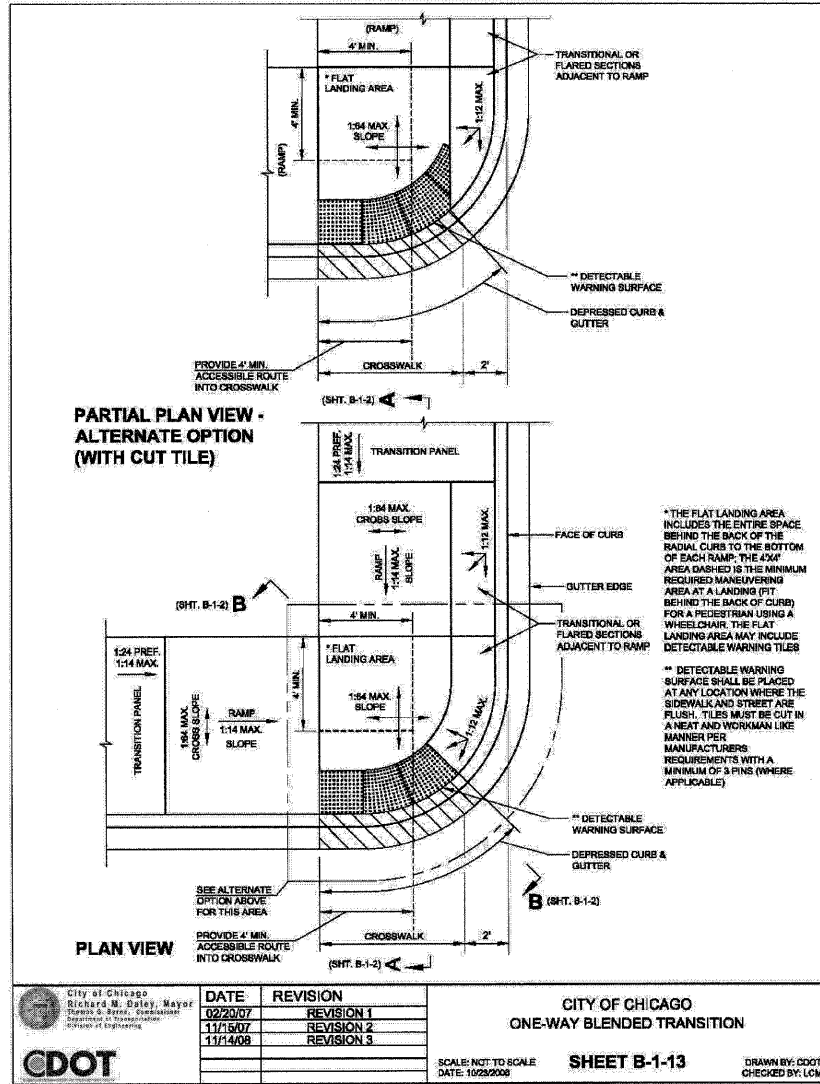
ILLINOIS DEPARTMENT OF TRANSPORTATION
 111TH STREET OVER
 F.A.I ROUTE 57 (INTERSTATE 57)

CITY OF CHICAGO DETAIL
ADA STANDARDS - I

SCALE: N.T.S. 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: 312/615-0200

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% SLOPE	SLOPE RATIO	INCHES PER FOOT	DECIMAL FEET PER FOOT
16.67%	1:6	2"	0.167'
10%	1:10	1 1/4"	0.104'
8.33%	1:12	1"	0.083'
7.14%	1:14	7/8"	0.073'
5%	1:20	5/8"	0.052'
4.17%	1:24	1/2"	0.042'
2%	1:50	1/4"	0.021'
1.56%	1:64	3/16"	0.016'

City of Chicago
Richard M. Daley, Mayor
Thomas G. Byrne, Commissioner
Department of Transportation
Division of Engineering

DATE	REVISION
02/20/07	REVISION 1
11/15/07	REVISION 2
11/14/08	REVISION 3

CITY OF CHICAGO
ONE-WAY BLENDED TRANSITION

SCALE: NOT TO SCALE
DATE: 10/29/08

SHEET B-1-13

DRAWN BY: CDOT
CHECKED BY: LCM

City of Chicago
Richard M. Daley, Mayor
Thomas G. Byrne, Commissioner
Department of Transportation
Division of Engineering

DATE	REVISION
02/20/07	REVISION 1
11/15/07	REVISION 2
11/14/08	REVISION 3

CITY OF CHICAGO
SHARED PERPENDICULAR RAMP AT CORNER

SCALE: NOT TO SCALE
DATE: 10/29/08

SHEET B-1-15

DRAWN BY: CDOT
CHECKED BY: LCM

City of Chicago
Richard M. Daley, Mayor
Thomas G. Byrne, Commissioner
Department of Transportation
Division of Engineering

DATE	REVISION
02/20/07	REVISION 1
11/15/07	REVISION 2
11/14/08	REVISION 3

CITY OF CHICAGO
CONVERSION CHART

SCALE: NOT TO SCALE
DATE: 10/29/08

SHEET B-3-1

DRAWN BY: CDOT
CHECKED BY: LCM

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REVISIONS	
NAME	DATE

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

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


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

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

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.1B-R	COOK	101	061
STA.	TO STA.			
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 6253B				

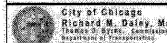
GENERAL NOTES

- THE DETECTABLE WARNING TILES SHALL BE CERAMIC CEMENT OR COMPOSITE POLYMER CONCRETE (CRC) TILES WHICH MEET THE CHICAGO DEPARTMENT OF TRANSPORTATION SPECIFICATION (AVAILABLE ON THE CITY OF CHICAGO WEBSITE). IN THE CENTRAL BUSINESS DISTRICT, GRANITE OR OTHER SPECIALTY PAVING MATERIALS MAY BE SUBMITTED TO THE COMMISSIONER FOR APPROVAL.
- TILES MUST BE INSTALLED A MAXIMUM OF 8" OR LESS FROM FACE OF CURB (SEE DETAIL SHEET B-4-2).
- TILES MUST COVER FULL WIDTH OF RAMP EXCLUDING SIDE FLARES FOR A MINIMUM UNOBSTRUCTED DEPTH OF 24". TILES LOCATED ON THE SURFACES OF RAMPS ARE TYPICALLY ORIENTED PERPENDICULAR TO THE RUN OF THE RAMP UNLESS SPECIAL CIRCUMSTANCES OCCUR (SEE DETAIL SHEET B-1-6). TILES MUST BE PROVIDED FOR A MINIMUM DEPTH OF 24" FOR THE ENTIRE LENGTH OF THE SIDEWALK WHERE THE SIDEWALK IS FLUSH WITH THE STREET (DEPRESSED CURB OR FLUSH TRANSITION).
- WHERE APPLICABLE, A COMBINATION OF DIFFERING SIZE TILES MAY BE USED ON COMPOUND AND LARGE RADII. CONTRACTOR MUST MAKE THIS DETERMINATION AND VERIFY IN FIELD.
- TILES MUST CONTRAST WITH ADJACENT PAVEMENT. IF LIGHT COLORED PAVEMENT IS USED THE TILE COLOR SHALL BE RED. IF A DARK COLORED PAVEMENT IS USED THE TILE COLOR SHALL BE YELLOW. CONTRACTOR TO VERIFY THAT PROPER CONTRAST IS OBTAINED.
- RAMP WIDTH MUST BE A MINIMUM OF 6'-0" AND IN INCREMENTS OF 1'-0", EXCEPT WHEN USING THE PERPENDICULAR RAMP AT CORNER, WHICH HAS A MINIMUM WIDTH OF 4'-0".
- PRIOR TO PLACING CONCRETE FOR DEPRESSED CURBS AND RAMPS THE CONTRACTOR SHALL NOTIFY THE COMMISSIONER TO RECEIVE LAYOUT APPROVAL. A PRE-MANUFACTURED TILE, APPROVED BY THE COMMISSIONER, MUST BE USED TO ACHIEVE THE DETECTABLE WARNING SURFACE.
- THE MAXIMUM ALLOWABLE RAMP RUNNING SLOPE IS 1:14, MEASURED AT ANY PORTION OF THE RAMP. IF POSSIBLE, A MORE GRADUAL SLOPE SHALL BE USED. GRADE BREAKS AT THE TOP AND BOTTOM OF RAMPS SHALL BE PERPENDICULAR TO THE DIRECTION OF RAMP RUN.
- THE MAXIMUM ALLOWABLE RAMP CROSS SLOPE IS 1:64, MEASURED AT ANY PORTION OF THE RAMP. IF POSSIBLE, A MORE GRADUAL SLOPE SHALL BE USED.
- THE MAXIMUM ALLOWABLE RAMP LANDING SLOPE IS 1:64, MEASURED AT ANY LOCATION AND IN ANY DIRECTION ON THE LANDING. THE RAMP LANDING WIDTH SHALL MATCH THE FULL WIDTH OF THE RAMP FOR A MINIMUM UNOBSTRUCTED DEPTH OF 4'-0". RAMP LANDINGS SHALL BE PROVIDED AT THE TOP AND/OR BOTTOM OF RAMPS WHERE TURNING IS REQUIRED.
- RAMP SIDE FLARES SHALL BE INSTALLED AT ANY LOCATION WHERE THE SURFACE ADJACENT TO THE RAMP SURFACE IS INTENDED FOR PEDESTRIAN USE. TRIPPING HAZARDS, INCLUDING STEPS, DROP-OFFS, OR SIDE CURBS SHALL NOT BE LOCATED WITHIN THE LIMITS OF THE SIDEWALK.
- UTILITIES, SUCH AS LIGHT POLES, TRAFFIC POLES AND HYDRANTS, MAY BE LOCATED IN THE FLARE OF THE RAMP BUT ARE NOT ALLOWED ON THE RAMP SURFACE OR LANDING AREAS.
- ALL LOCATIONS WITH TYPE 4 OR TYPE B CURB (EXCEPT ALLEY APRONS) SHALL BE CONSTRUCTED AS CURB AND GUTTER TYPE BV.12 THROUGH THE LIMITS OF THE CORNER AND THE CURB RAMPS.
- ALTERATIONS SHALL NOT DECREASE THE ACCESSIBILITY TO EXISTING FACILITIES. SIDEWALKS LEADING TO EXISTING FACILITIES OR DOOR OR GATE ACCESS POINTS TO FACILITIES. THE ELEVATION AT THE EXISTING PROPERTY LINE OR FACILITY ACCESS POINT SHALL BE MAINTAINED AT A MINIMUM. ANY ALTERATIONS ADJACENT TO OR AFFECTING A FACILITY ACCESS POINT SHALL RESULT IN IMPROVED ACCESS OR AT A MINIMUM A REPLICATION OF EXISTING CONDITIONS, INCLUDING SIDEWALK SLOPES AND SURFACE CONDITIONS. FACILITIES INCLUDE, BUT ARE NOT LIMITED TO PRIVATE BUSINESSES, PUBLIC BUILDINGS, RESIDENCES, BUS STOPS, PUBLIC BENCHES, PAY PHONES, AND PARKING METERS.
- THE MINIMUM CROSSWALK WIDTH IS 6'-0". CROSSWALKS SHALL BE LOCATED AS SHOWN IN THE PLAN SHEETS DEPENDING ON THE TYPE OF CURB RAMP USED. BEYOND THE CURB FACE AT THE BASE OF CURB RAMPS, A CLEAR SPACE OF 4'-0" BY 4'-0" MINIMUM SHALL BE PROVIDED WITHIN THE WIDTH OF THE CROSSWALK.

 City of Chicago Richard M. Daley, Mayor Harold S. Kyte, Commissioner Department of Transportation Division of Engineering	DATE	REVISION	CITY OF CHICAGO GENERAL NOTES SHEET B-3-2	SCALE: NOT TO SCALE DATE: 10/29/08	DRAWN BY: CDOT CHECKED BY: LCM
	02/20/07	REVISION 1			
	11/15/07	REVISION 2			
	11/14/08	REVISION 3			

GENERAL NOTES (CONTINUED)

- IF SIDEWALK AND ALLEY ARE AT THE SAME GRADE, A RAMP IS NOT REQUIRED. IF SIDEWALK AND DRIVEWAY ARE AT THE SAME GRADE, A RAMP IS NOT REQUIRED BUT DETECTABLE WARNING TILES ARE STILL REQUIRED IF THE DRIVEWAY HAS TRAFFIC CONTROL DEVICES (I.E. TRAFFIC SIGNALS).
- MAIN LINE SIDEWALK SHALL HAVE A MAXIMUM CROSS SLOPE NOT TO EXCEED 1:64 FOR THE FULL WIDTH OF WALK UNLESS OTHERWISE APPROVED BY THE COMMISSIONER. WHERE TURNING IS REQUIRED AND WHERE SIDEWALKS INTERSECT, THE SLOPE OF THE SIDEWALK SHALL NOT EXCEED 1:64 IN ANY DIRECTION.
- MAIN LINE SIDEWALK RUNNING SLOPES SHALL NOT EXCEED 1:24 OR THE GENERAL GRADE ESTABLISHED FOR THE ADJACENT STREET, WHICH EVER IS HIGHER.
- THERE SHALL BE NO VERTICAL LEVEL DIFFERENCES BETWEEN SURFACES GREATER THAN 1/4" ON THE MAIN LINE SIDEWALK. THERE SHALL BE NO HORIZONTAL GAPS OR OPENINGS GREATER THAN 1/2" ON THE MAIN LINE SIDEWALK.
- CURB RAMPS AND KEYSTONE TO BE CONSTRUCTED WITH 8" THICK CONCRETE AT ALL TRAFFIC SIGNALIZED INTERSECTIONS AND INDUSTRIAL STREET INTERSECTIONS. AT ALL OTHER LOCATIONS, 6" THICK CONCRETE TO BE USED.
- NO DEVIATIONS FROM THESE STANDARDS ARE ALLOWED WITHOUT WRITTEN APPROVAL FROM THE COMMISSIONER.
- ALL CONSTRUCTION DOCUMENTS MUST BE STAMPED BY A LICENSED ARCHITECT/LANDSCAPE ARCHITECT/ENGINEER TO CERTIFY THAT THEY ARE IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT (ADA) AND ALL CODES AND BUILDING ORDINANCES OF THE CITY OF CHICAGO AND STATE OF ILLINOIS.

 City of Chicago Richard M. Daley, Mayor Harold S. Kyte, Commissioner Department of Transportation Division of Engineering	DATE	REVISION	CITY OF CHICAGO GENERAL NOTES SHEET B-3-3	SCALE: NOT TO SCALE DATE: 10/29/08	DRAWN BY: CDOT CHECKED BY: LCM
	02/20/07	REVISION 1			
	11/15/07	REVISION 2			
	11/14/08	REVISION 3			

ADA COMPLIANCE AND TRANSITION GUIDELINES

POLICY STATEMENT: ANY ALTERATION OF THE PUBLIC WAY MUST BE RESTORED IN AN ADA COMPLIANT MANNER

I. STREET RESURFACING / RECONSTRUCTION *

FOR ANY RESURFACING/RECONSTRUCTION PROJECT WHERE, WITHIN THE PROJECT LIMITS, A CROSSWALK IS ENCOUNTERED OR WHERE THE PROJECT LIMITS TERMINATE WITHIN 4' OR LESS OF A CROSSWALK, THOSE CROSSWALKS AND THE ASSOCIATED CURB RAMPS MUST BE IMPROVED TO CURRENT ADA STANDARDS. WHERE RESURFACING/RECONSTRUCTION ENCOUNTERS LESS THAN 1/4 POINT OF THE STREET SURFACE (LONGITUDINAL CUT), IT IS ACCEPTABLE PRACTICE TO EXCLUDE IMPROVEMENTS TO THE ASSOCIATED CROSSWALKS AND CURB RAMPS.

WHEN A PROJECT SCOPE OF WORK CALLS FOR ONLY AN INTERSECTION TO BE REPAVED, THE INTERSECTION LIMITS AS DEFINED BY THE AREA OUTLINED BY OUTERMOST CROSSWALK LINES AND ADJACENT CURB FACES AND ALL ADJOINING CROSSWALKS AND CURB RAMPS MUST BE IMPROVED TO CURRENT ADA STANDARDS.

WHEN A PROJECT SCOPE OF WORK IS LIMITED TO A SINGLE CORNER OF AN INTERSECTION, THE CURB RAMP MUST BE IMPROVED TO CURRENT ADA STANDARDS AND THE ADJACENT PAVEMENT MUST BE RESURFACED, AS NECESSARY TO PROVIDE FOR A FLUSH TRANSITION.

FOR ANY RESURFACING / RECONSTRUCTION PROJECT WHERE, WITHIN THE PROJECT LIMITS, AN ALLEY APRON IS ENCOUNTERED, THE ASSOCIATED CURB RAMPS, ALLEY APRON, AND SIDEWALKS MUST BE IMPROVED TO CURRENT ADA STANDARDS.

II. SIDEWALK INSTALLATION / REPAIRS / RECONSTRUCTION

THE LIMITS OF ANY MAINLINE SIDEWALK REPLACEMENT, GREATER THAN TEN FEET (10') IN LENGTH, THAT ABUT AN EXISTING RAMP LOCATION (INCLUDING THE FOUR FOOT (4') LANDING AREA AND/OR THE "KEYSTONE"), SHALL BE EXTENDED TO INCLUDE THE AFFECTED RAMPS AND THESE RAMPS SHALL BE RECONSTRUCTED TO CURRENT ADA STANDARDS. IN ADDITION, ALL NEWLY PLACED SIDEWALK TEN FEET (10') OR MORE IN LENGTH SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL CURRENT APPLICABLE STANDARDS WHICH INCLUDE PROVIDING A MINIMUM FOUR FEET (4') WIDTH ACCESSIBLE PATHWAY WITH A CROSS SLOPE NOT TO EXCEED 1:64.

III. GUIDELINES FOR TRANSITIONING TO EXISTING NON-COMPLIANT CONDITION

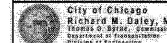
NEW SIDEWALK PLACEMENTS GREATER THAN TEN FEET IN CONTIGUOUS LENGTH. THE LIMITS OF ANY MAINLINE SIDEWALK REPLACEMENT, GREATER THAN TEN FEET (10') IN LENGTH, MUST BE EXTENDED FOR A MINIMUM FIVE ADDITIONAL FEET (5') EITHER SIDE IN ORDER TO PROVIDE A REASONABLE TRANSITION TO MATCH THE EXISTING SIDEWALK. THE LENGTH OF TRANSITION SHALL BE LENGTHENED AS NECESSARY TO ENSURE THAT THE RUNNING SLOPE OF THE TRANSITION DOES NOT EXCEED A SLOPE OF 1:24 (PREFERRED) OR 1:14 (MAXIMUM) AT ANY POINT.

NEW SIDEWALK REPLACEMENTS TEN FEET OR LESS IN CONTIGUOUS LENGTH (REPAIRS): IT IS ACCEPTABLE PRACTICE TO MATCH ADJACENT SIDEWALKS AT THE EXISTING SLOPE.

CURB RAMP REPLACEMENTS: SIDEWALK REPLACEMENT BEYOND THE LIMITS OF THE LANDING AREA AND/OR THE "KEYSTONE" MUST BE EXTENDED A MINIMUM OF AN ADDITIONAL FIVE FEET (5') EITHER SIDE IN ORDER TO PROVIDE A REASONABLE TRANSITION TO MATCH THE EXISTING SIDEWALK. THE TRANSITION SHALL BE LENGTHENED AS NECESSARY TO ENSURE THAT THE RUNNING SLOPE OF THE TRANSITION DOES NOT EXCEED A SLOPE OF 1:24 (PREFERRED) OR 1:14 (MAXIMUM) AT ANY POINT.

NO EXCEPTIONS TO THE ABOVE WILL BE ALLOWED WITHOUT WRITTEN APPROVAL FROM THE COMMISSIONER.

*** THE REQUIREMENTS OF SECTION I. SHALL APPLY ONLY TO CITY AGENCIES**

 City of Chicago Richard M. Daley, Mayor Harold S. Kyte, Commissioner Department of Transportation Division of Engineering	DATE	REVISION	CITY OF CHICAGO ADA COMPLIANCE AND TRANSITION GUIDELINES SHEET B-3-4	SCALE: NOT TO SCALE DATE: 10/29/08	DRAWN BY: CDOT CHECKED BY: LCM
	02/20/07	REVISION 1			
	11/15/07	REVISION 2			
	11/14/08	REVISION 3			

REVISIONS	
NAME	DATE

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

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

SCALE: N.T.S. 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	2021JB-R	COOK	101	062
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62533				

DETECTABLE WARNING TILE SIZES
VERIFY ALL TILE DIMENSIONS WITH TILE MANUFACTURER.
APPROVED LIST OF DETECTABLE WARNING TILE MANUFACTURERS CAN BE FOUND ON CDOT'S WEBSITE.

City of Chicago Richard M. Daley, Mayor Thomas G. Byrne, Commissioner Department of Transportation	DATE	REVISION	CITY OF CHICAGO DETECTABLE WARNING TILE DIMENSIONS
	02/20/07	REVISION 1	
	11/15/07	REVISION 2	
	11/14/08	REVISION 3	
CDOT	SCALE: NOT TO SCALE DATE: 10/29/08	SHEET B-4-1	DRAWN BY: CDOT CHECKED BY: LCM

GENERAL NOTE: THE ROWS OF DOMES IN THE DETECTABLE WARNING MATERIAL MUST BE ALIGNED WITH THE PATH OF WHEELCHAIR TRAVEL WHICH IS REQUIRED TO BE PERPENDICULAR TO THE GRADE BREAK AT THE BOTTOM OF THE RAMP TO PERMIT TRACKING BETWEEN DOME ROWS. ON BLENDED OR FLUSH TRANSITIONS, WHERE RADIAL TILES ARE SITUATED ABOUT THE CURB RADIUS, DOME ORIENTATION IS NOT SIGNIFICANT

TILE PATTERN DETAIL

TILE PLACEMENT ON A RADIUS

DETECTABLE TILE WARNING SECTION

BULL FLOAT AROUND TILE TO ENSURE A LEVEL SURFACE,
1/4" MAX VERTICAL DISPLACEMENTS BETWEEN THE TILE
EDGE AND ADJACENT CONCRETE

SECURING PIN SUPPLIED
BY MANUFACTURER (WHERE APPLICABLE)

CAST IN PLACE DETECTABLE
WARNING TILE

PLASTIC BARRIER

5' OR 6" CONCRETE
WALK

City of Chicago Richard M. Daley, Mayor Thomas G. Byrne, Commissioner Department of Transportation	DATE	REVISION	CITY OF CHICAGO DETECTABLE WARNING TILE DETAILS
	02/20/07	REVISION 1	
	11/15/07	REVISION 2	
	11/14/08	REVISION 3	
CDOT	SCALE: NOT TO SCALE DATE: 10/29/08	SHEET B-4-2	DRAWN BY: CDOT CHECKED BY: LCM

GENERAL NOTE: THE ROWS OF DOMES IN THE DETECTABLE WARNING MATERIAL MUST BE ALIGNED WITH THE PATH OF WHEELCHAIR TRAVEL WHICH IS REQUIRED TO BE PERPENDICULAR TO THE GRADE BREAK AT THE BOTTOM OF THE RAMP TO PERMIT TRACKING BETWEEN DOME ROWS. ON BLENDED OR FLUSH TRANSITIONS, WHERE RADIAL TILES ARE SITUATED ABOUT THE CURB RADIUS, DOME ORIENTATION IS NOT SIGNIFICANT

TILE PATTERN DETAIL

TILE PLACEMENT ON A RADIUS

DETECTABLE TILE WARNING SECTION

BULL FLOAT AROUND TILE TO ENSURE A LEVEL SURFACE,
1/4" MAX VERTICAL DISPLACEMENTS BETWEEN THE TILE
EDGE AND ADJACENT CONCRETE

SECURING PIN SUPPLIED
BY MANUFACTURER (WHERE APPLICABLE)

CAST IN PLACE DETECTABLE
WARNING TILE

PLASTIC BARRIER

5' OR 6" CONCRETE
WALK

City of Chicago Richard M. Daley, Mayor Thomas G. Byrne, Commissioner Department of Transportation	DATE	REVISION	CITY OF CHICAGO DETECTABLE WARNING TILE DETAILS
	02/20/07	REVISION 1	
	11/15/07	REVISION 2	
	11/14/08	REVISION 3	
CDOT	SCALE: NOT TO SCALE DATE: 10/29/08	SHEET B-4-2	DRAWN BY: CDOT CHECKED BY: LCM

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REVISIONS	
NAME	DATE

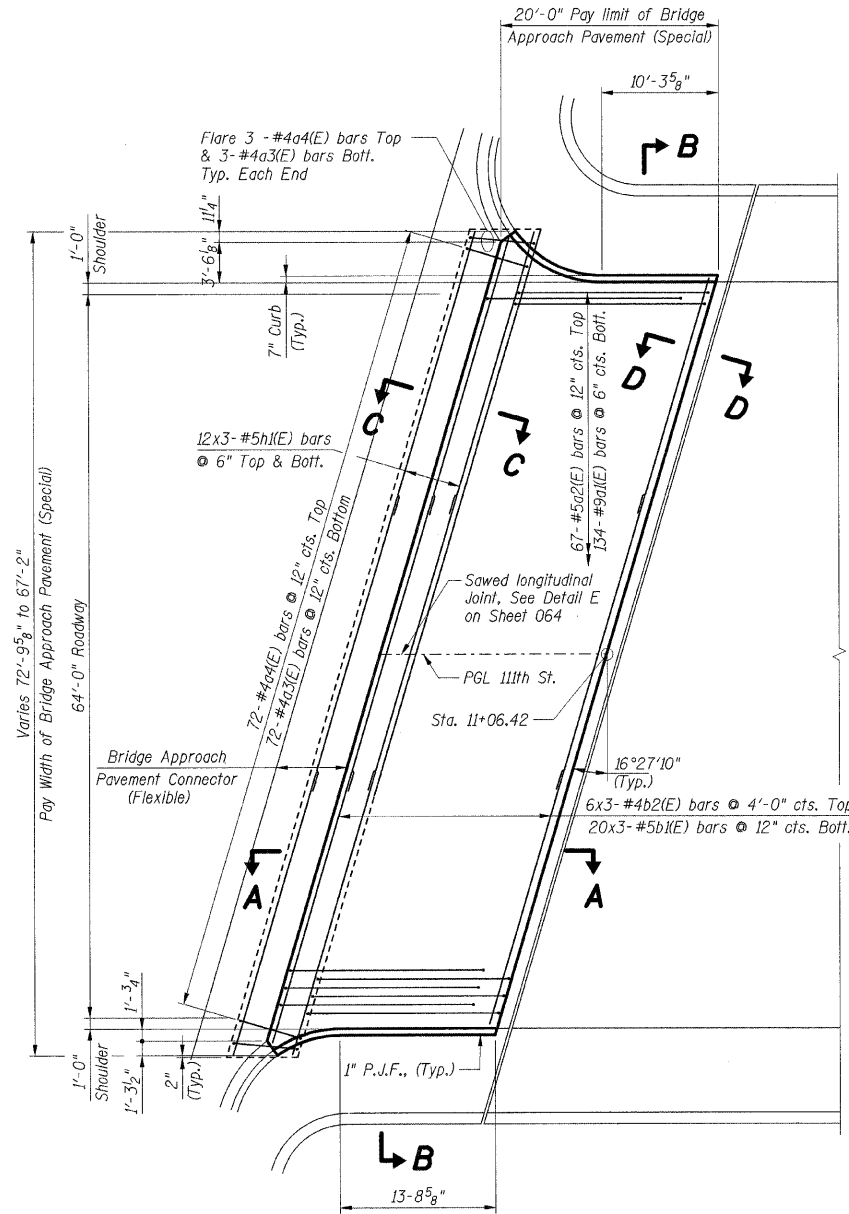
ILLINOIS DEPARTMENT OF TRANSPORTATION
111TH STREET OVER
F.A.I ROUTE 57 (INTERSTATE 57)

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

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

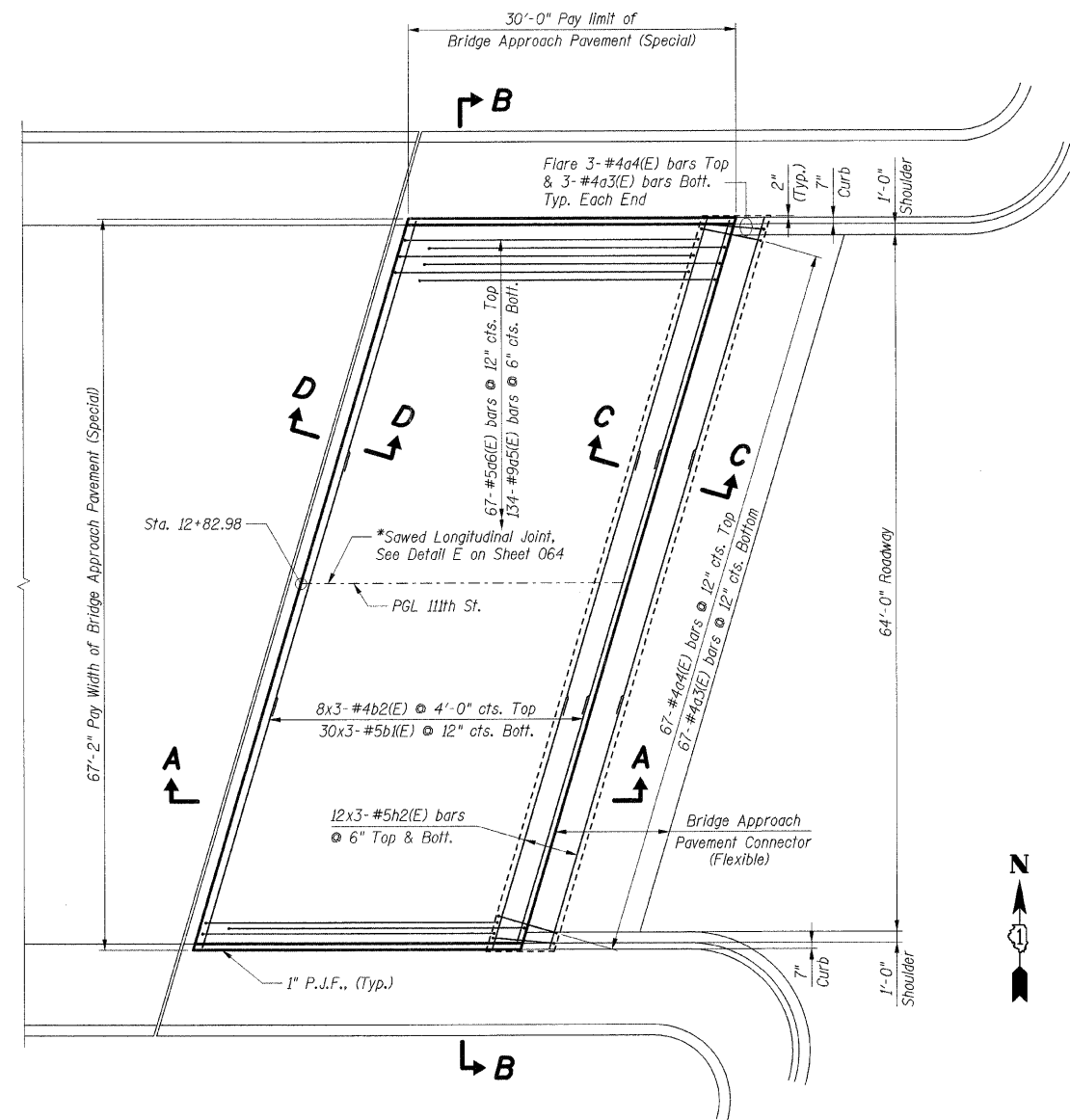
TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE., CHICAGO, IL 60601
TELEPHONE: 312/616-0000

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.1B-R	COOK	101	063
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62532				



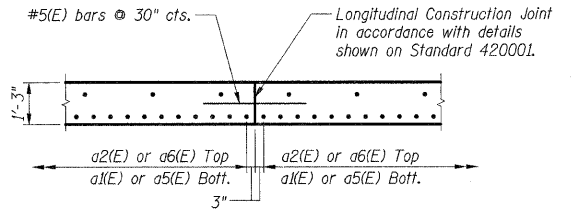
PLAN WEST APPROACH

*Saw PGL or lane edge



PLAN EAST APPROACH

*Saw PGL or lane edge



OPTIONAL LONGITUDINAL CONSTRUCTION JOINT

As approved by the Engineer, the Contractor may elect to reduce the widths of pour by use of the Optional Longitudinal Construction Joint shown. Joints shall be located at the edge of a traffic lane.

BILL OF MATERIAL		
Item	Unit	Total
Bridge Approach Pavement (Special)	Sq Yd	375
Bridge Deck Grooving	Sq Yd	358
Protective Coat	Sq Yd	382

- Notes:**
1. Reinforcement bars designated (E) shall be epoxy coated.
 2. Bars indicated thus 30x2-#5 etc. indicates 30 lines of bars with 2 lengths per line.
 3. For Sections A-A thru D-D see Sheet 064.
 4. See Standard 421001 for reinforcement details not shown.
 5. See Standard 420001 for details of joints not shown.

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

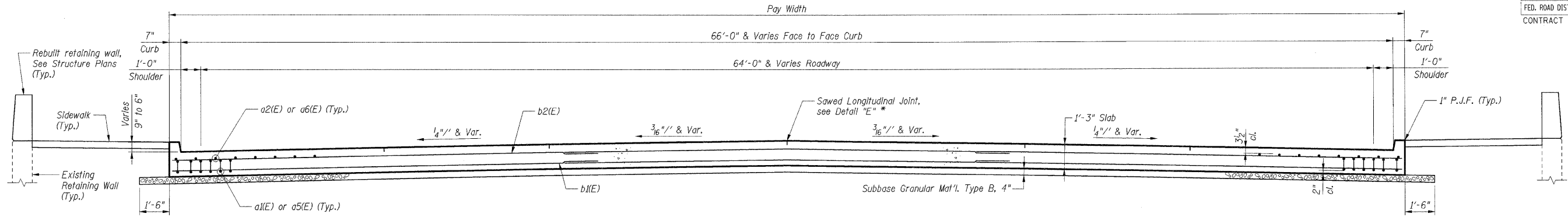
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 111TH STREET OVER
 F.A.I ROUTE 57 (INTERSTATE 57)
**BRIDGE APPROACH PAVEMENT,
 SPECIAL AT SN 016-0989
 PLANS**

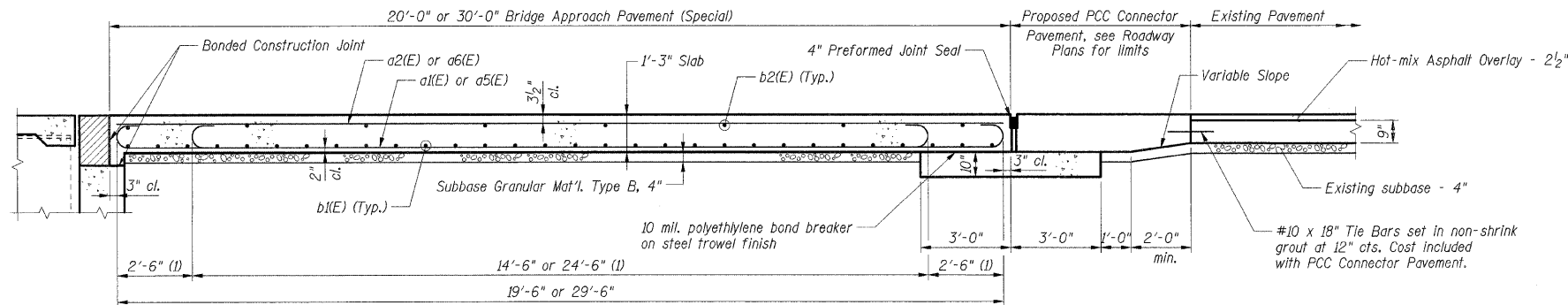
SCALE: DRAWN BY: RDS
 DATE: 01/16/09 CHECKED BY: ACL

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

..\ALTON88.DGN, ..\TSL00MY6.DGN, ..\TBOOMWAD.DGN, ..\VPS00T13.DGN, ..\VPS00T14.DGN, ..\VPS00T15.DGN, ..\VPS00T16.DGN, ..\VPS00T17.DGN, ..\VPS00T18.DGN, ..\VPS00T19.DGN, ..\VPS00T20.DGN, ..\VPS00T21.DGN, ..\VPS00T22.DGN, ..\VPS00T23.DGN, ..\VPS00T24.DGN, ..\VPS00T25.DGN, ..\VPS00T26.DGN, ..\VPS00T27.DGN, ..\VPS00T28.DGN, ..\VPS00T29.DGN, ..\VPS00T30.DGN, ..\VPS00T31.DGN, ..\VPS00T32.DGN, ..\VPS00T33.DGN, ..\VPS00T34.DGN, ..\VPS00T35.DGN, ..\VPS00T36.DGN, ..\VPS00T37.DGN, ..\VPS00T38.DGN, ..\VPS00T39.DGN, ..\VPS00T40.DGN, ..\VPS00T41.DGN, ..\VPS00T42.DGN, ..\VPS00T43.DGN, ..\VPS00T44.DGN, ..\VPS00T45.DGN, ..\VPS00T46.DGN, ..\VPS00T47.DGN, ..\VPS00T48.DGN, ..\VPS00T49.DGN, ..\VPS00T50.DGN, ..\VPS00T51.DGN, ..\VPS00T52.DGN, ..\VPS00T53.DGN, ..\VPS00T54.DGN, ..\VPS00T55.DGN, ..\VPS00T56.DGN, ..\VPS00T57.DGN, ..\VPS00T58.DGN, ..\VPS00T59.DGN, ..\VPS00T60.DGN, ..\VPS00T61.DGN, ..\VPS00T62.DGN, ..\VPS00T63.DGN, ..\VPS00T64.DGN, ..\VPS00T65.DGN, ..\VPS00T66.DGN, ..\VPS00T67.DGN, ..\VPS00T68.DGN, ..\VPS00T69.DGN, ..\VPS00T70.DGN, ..\VPS00T71.DGN, ..\VPS00T72.DGN, ..\VPS00T73.DGN, ..\VPS00T74.DGN, ..\VPS00T75.DGN, ..\VPS00T76.DGN, ..\VPS00T77.DGN, ..\VPS00T78.DGN, ..\VPS00T79.DGN, ..\VPS00T80.DGN, ..\VPS00T81.DGN, ..\VPS00T82.DGN, ..\VPS00T83.DGN, ..\VPS00T84.DGN, ..\VPS00T85.DGN, ..\VPS00T86.DGN, ..\VPS00T87.DGN, ..\VPS00T88.DGN, ..\VPS00T89.DGN, ..\VPS00T90.DGN, ..\VPS00T91.DGN, ..\VPS00T92.DGN, ..\VPS00T93.DGN, ..\VPS00T94.DGN, ..\VPS00T95.DGN, ..\VPS00T96.DGN, ..\VPS00T97.DGN, ..\VPS00T98.DGN, ..\VPS00T99.DGN, ..\VPS00T100.DGN



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



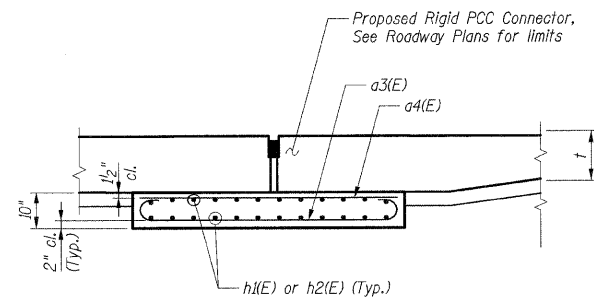
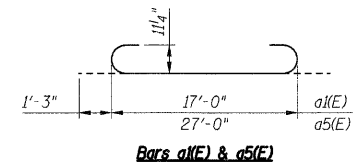
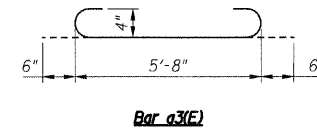
SECTION A-A

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

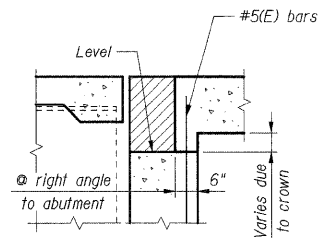
MATERIAL REQUIRED FOR BRIDGE APPROACH PAVEMENT (SPECIAL)

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"	—	
Item				Unit	Total
Concrete Structures			Cu Yd	159.8	**
Reinforcement Bars, Epoxy Coated			Lbs	35,460	**
Polyethylene Bond Breaker			Sq Yd	98	**
Concrete Pad			Sq Yd	98	**

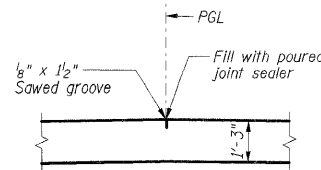
** Item included in the cost for Bridge Approach Pavement (Special).



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.
DATE: 01/16/09

DRAWN BY: RDS
CHECKED BY: ACL

TENG

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

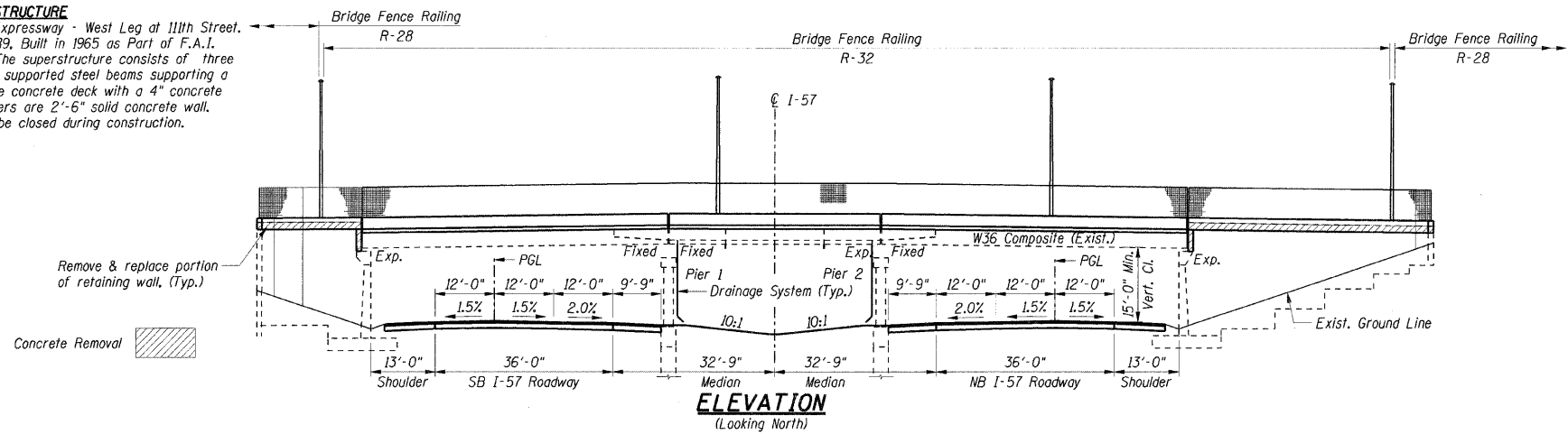
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.1B-R	COOK	101	065
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62532				

BENCHMARK
Chiseled "X" on north flange bolt of fire hydrant, El. 619.37 located at the SE corner of 111th St. and Hamlet.

EXISTING STRUCTURE
Dan Ryan Expressway - West Leg at 111th Street. No. 016-0989, Built in 1965 as Part of F.A.I. Route 57. The superstructure consists of three span simply supported steel beams supporting a 7" composite concrete deck with a 4" concrete overlay. Piers are 2'-6" solid concrete wall. Bridge will be closed during construction.

SALVAGE
None.



DESIGN SPECIFICATIONS:
AASHTO Standard Specifications for Highway Bridges 17th Edition, 2002. Load Factor Design

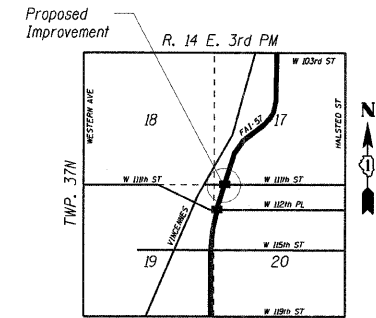
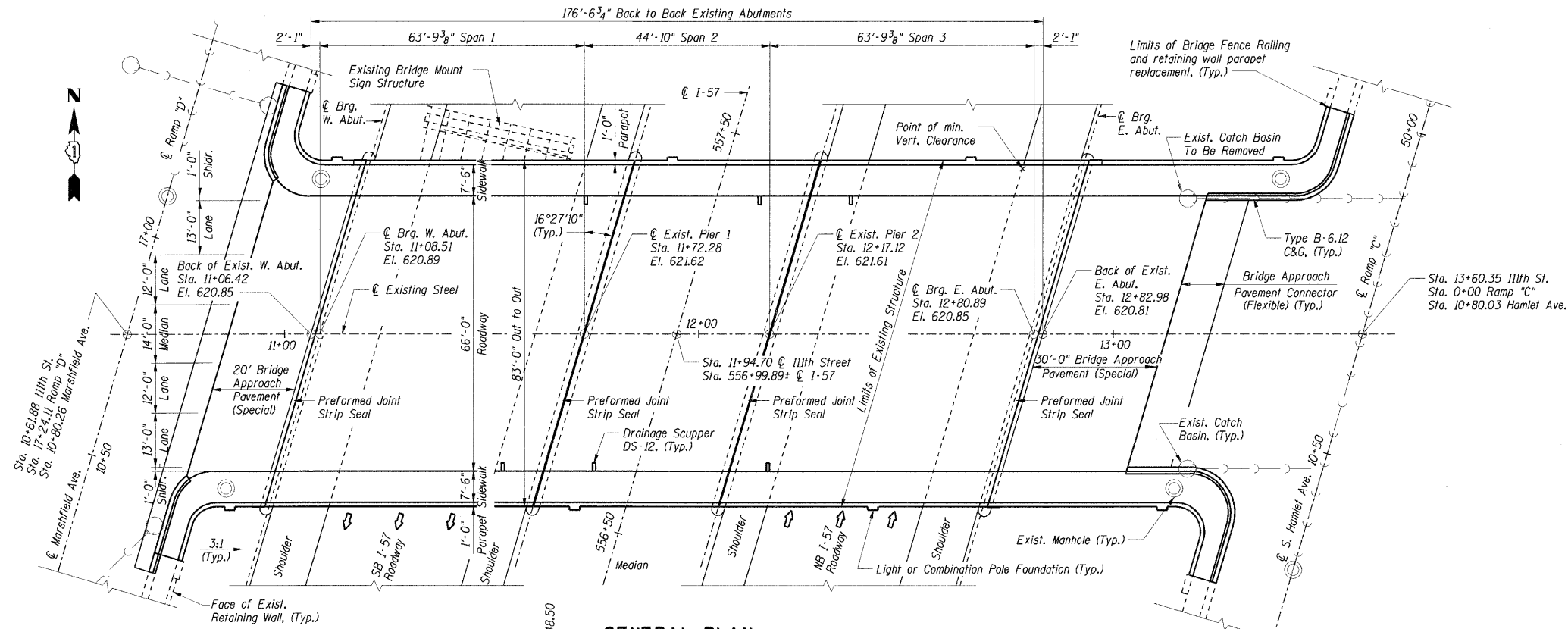
DESIGN LOADING:
Roadway Live Load: HS20-44
Future Wearing Surface = 50 psf

DESIGN STRESSES:
New Construction:
Class B5 Concrete, $f'_c = 4,000$ psi
Class S1 Concrete, $f'_c = 3,500$ psi
Reinforcement, $f_y = 60,000$ psi
Structural Steel, $f_y = 36,000$ psi
 $f_y = 50,000$ psi (Bearing Plates and Extensions)

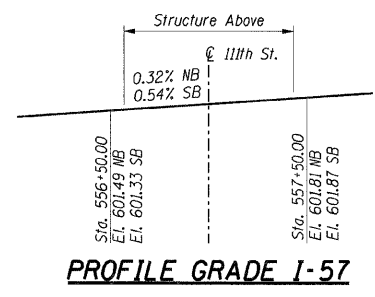
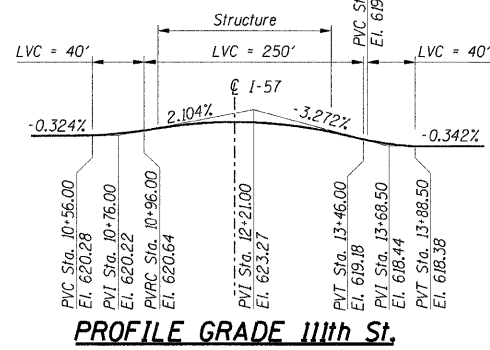
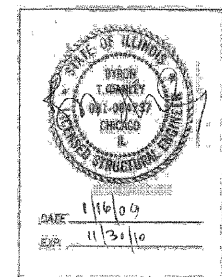
Existing Construction:
Concrete, $f'_c = 4,400$ psi
Reinforcement, $f_y = 40,000$ psi
Structural Steel, $f_y = 36,000$ psi

SEISMIC DATA:
Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.04g
Site Coefficient (S) = 1.0

Alignment Notes:
The alignments for I-57 and 111th Street shown on Shts. S-001 thru S-024 are based on record plan information. The alignments for I-57 and 111th Street shown on Sht. 015 are based on best fit alignments.



APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Relph E Anderson
ENGINEER OF BRIDGES AND STRUCTURES



SHT. S-001

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 PLAN AND ELEVATION

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: 312.536.0000

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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. ϕ , holes 15/16 in. ϕ , 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.

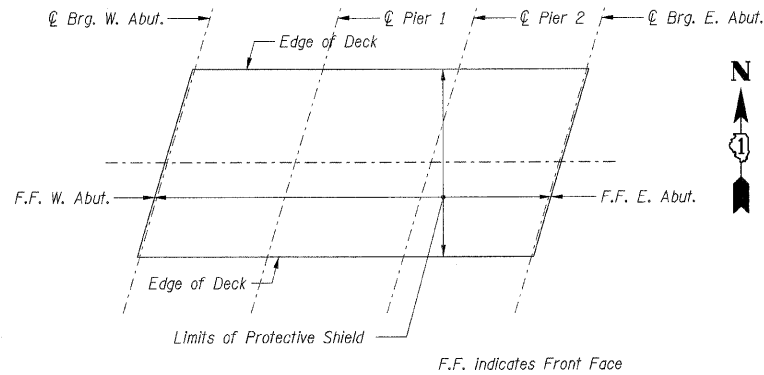
Any cracks that cannot be removed by grinding 1/4 inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of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

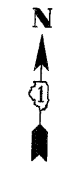
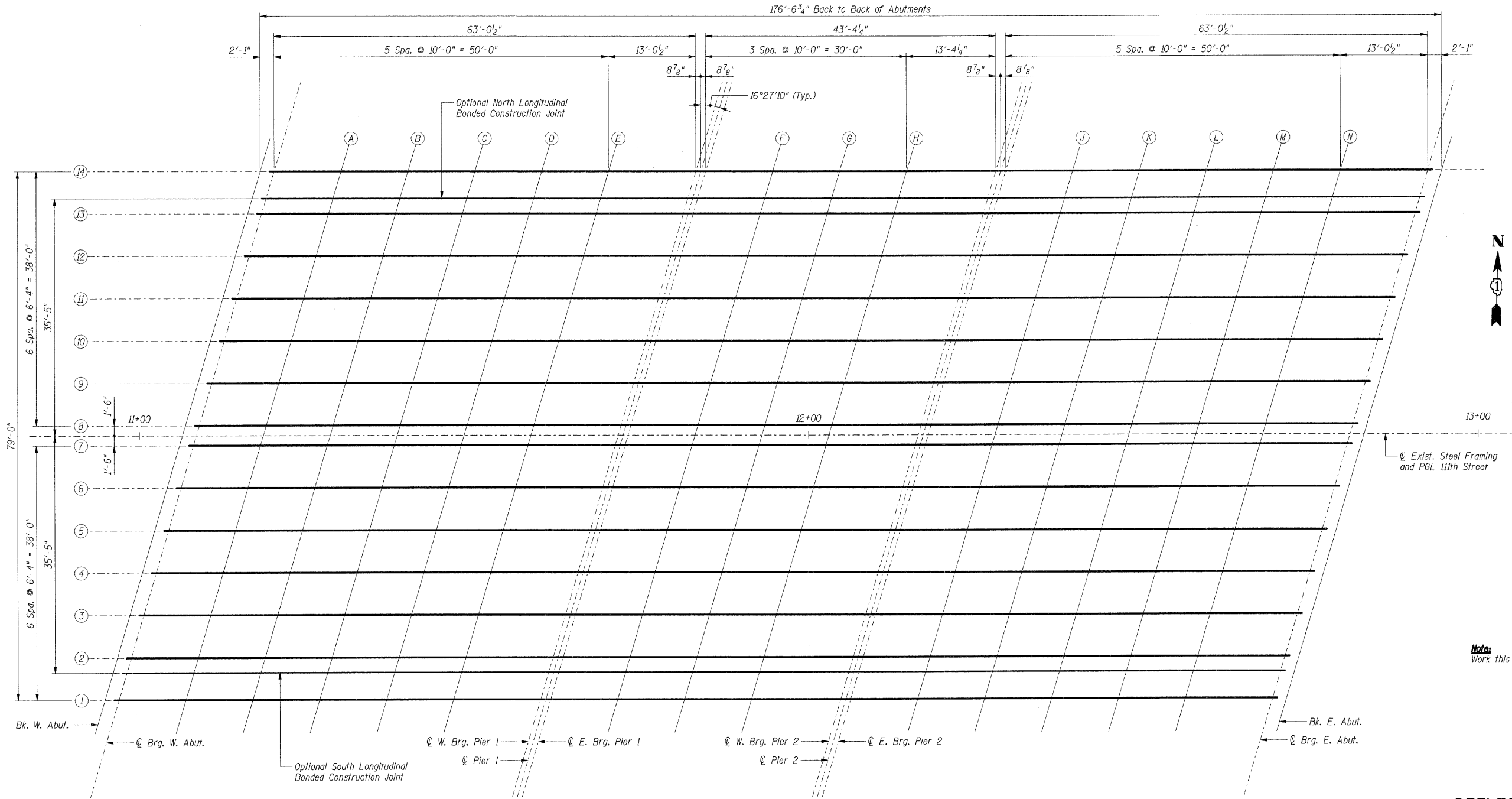
GENERAL NOTES, INDEX OF SHEETS
AND BILL OF MATERIAL

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 312.618.0000

T:\DOCUMENT\1830860\STRUCT\GEN\GEN0001.DGN HIGHLIGHT color Table: K:\STANDARD\TEXT\GEN\DATA\COLORTABLE.TBL
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 Part: Table: N/A

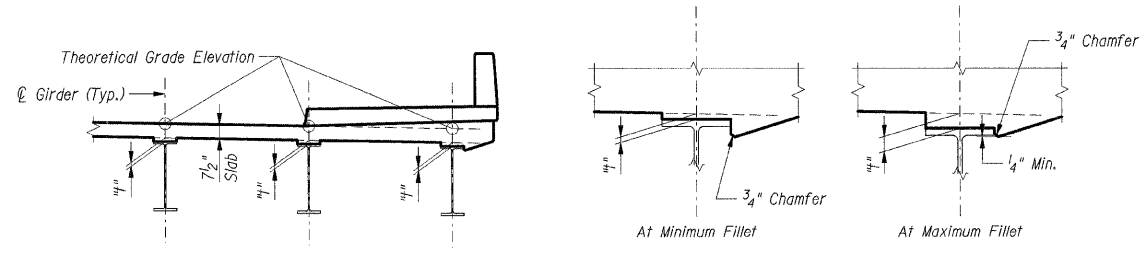


Notes:
Work this sheet with Sheets S-004 and S-005.

SCREED PLAN

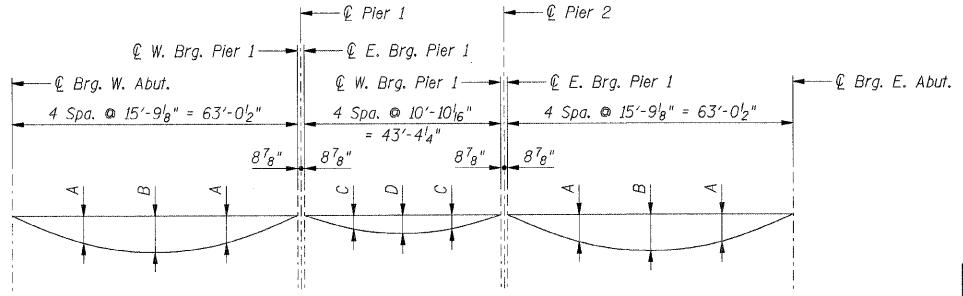
DEFLECTIONS

Girder	A	B	C	D
1 and 14	3/4"	1 1/8"	1/4"	1/4"
2-6 and 9-13	3/4"	1"	3/8"	1/2"
7 and 8	1/2"	3/4"	1/4"	3/8"



To determine "f": After all structural steel has been erected, elevations of the top flanges of the girders shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" shown on Sheets S-004 and S-005, minus the slab thickness, equal the fillet heights "f" above the top flanges of the girders.

FILLET HEIGHTS



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only)

Notes:
The above deflections are not to be used in the field if the Engineer is working from the theoretical grade elevations adjusted for dead load deflections shown on Sheets S-004 and S-005.

SHT. S-003

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 ELEVATION PLAN

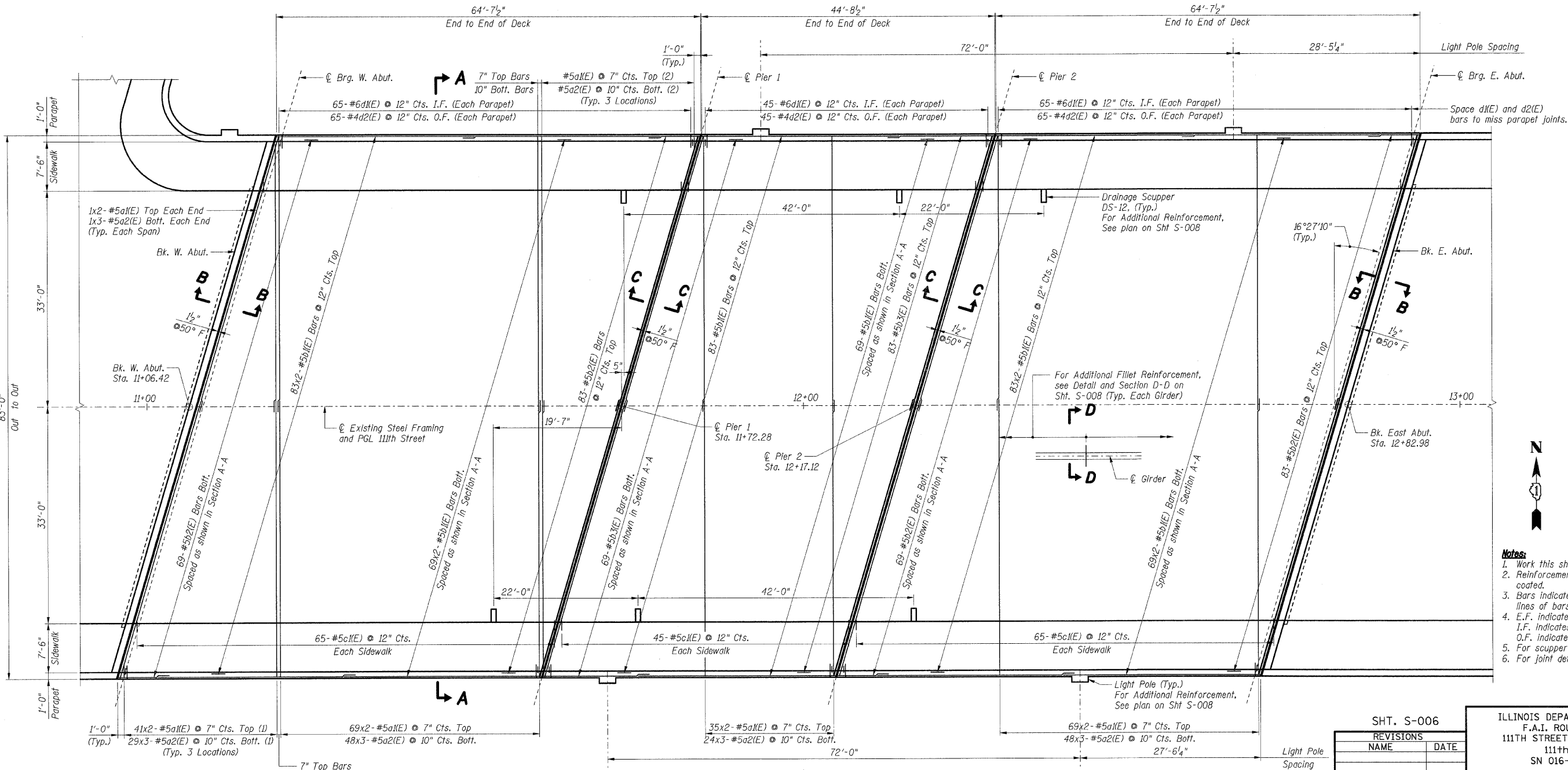
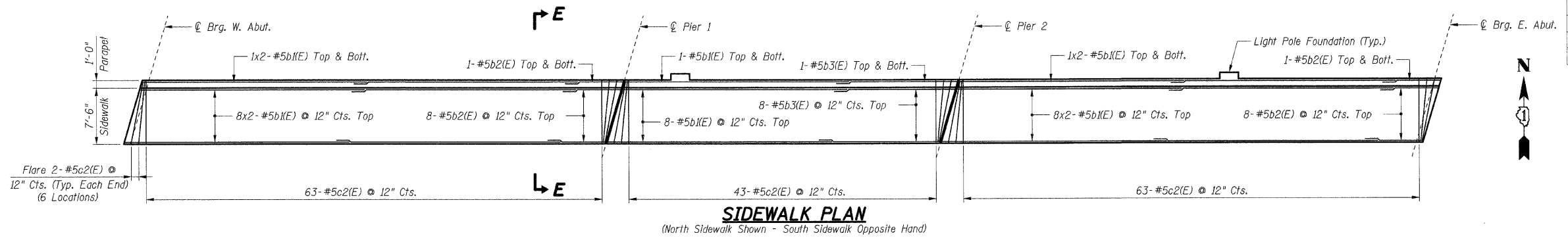
DATE: 01/16/09 DRAWN BY: CCE CHECKED BY: JLR



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

\\FPO01C\DCN... \BIB006\FB001... \BIB006\FB001... \BIB006\FB001... \BIB006\FB001... \BIB006\FB001...
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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				



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

- Notes:**
- Work this sheet with Shts. S-007 & S-008.
 - 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.
 - E.F. indicates Each Face, I.F. indicates Inside Face, O.F. indicates Outside Face.
 - For scupper details, see Sht. S-010.
 - For joint details, see Sht. S-009.

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

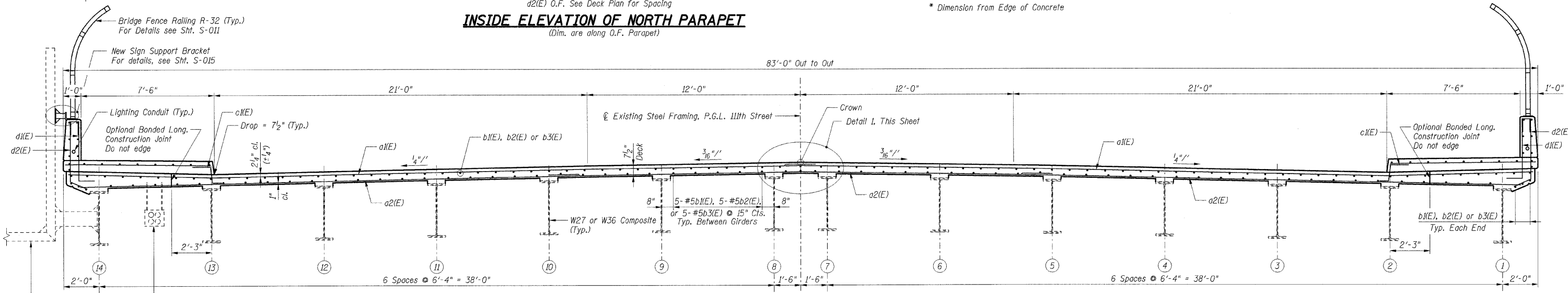
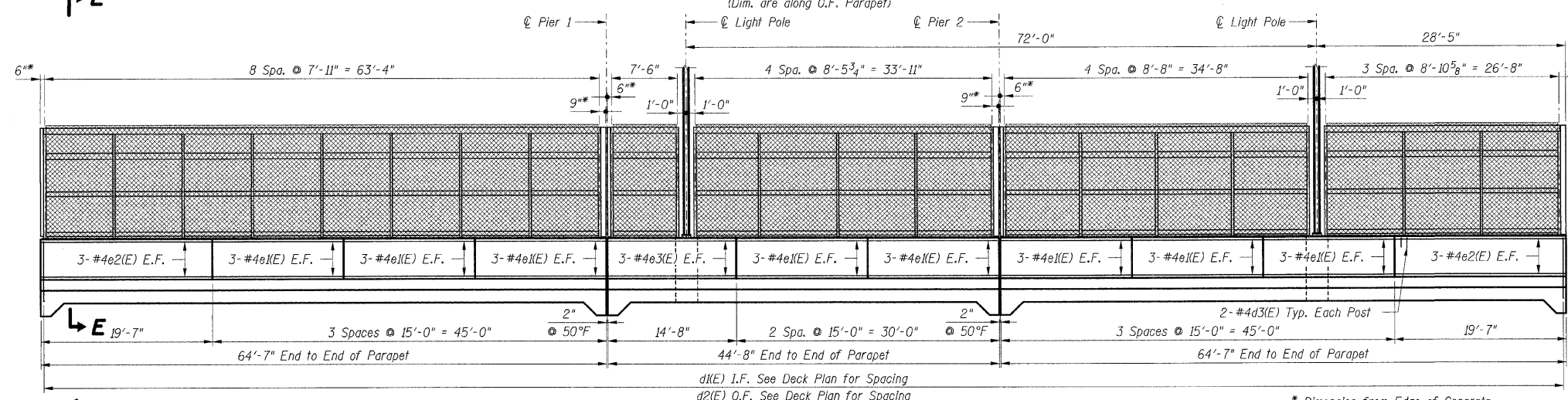
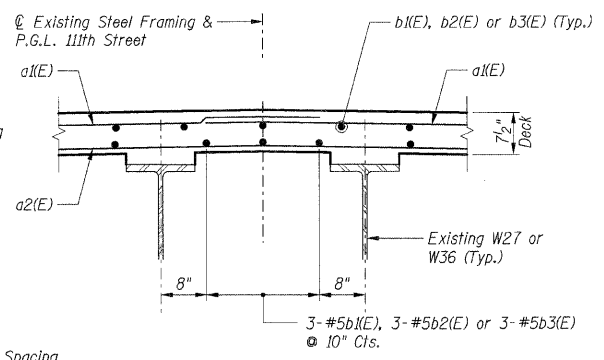
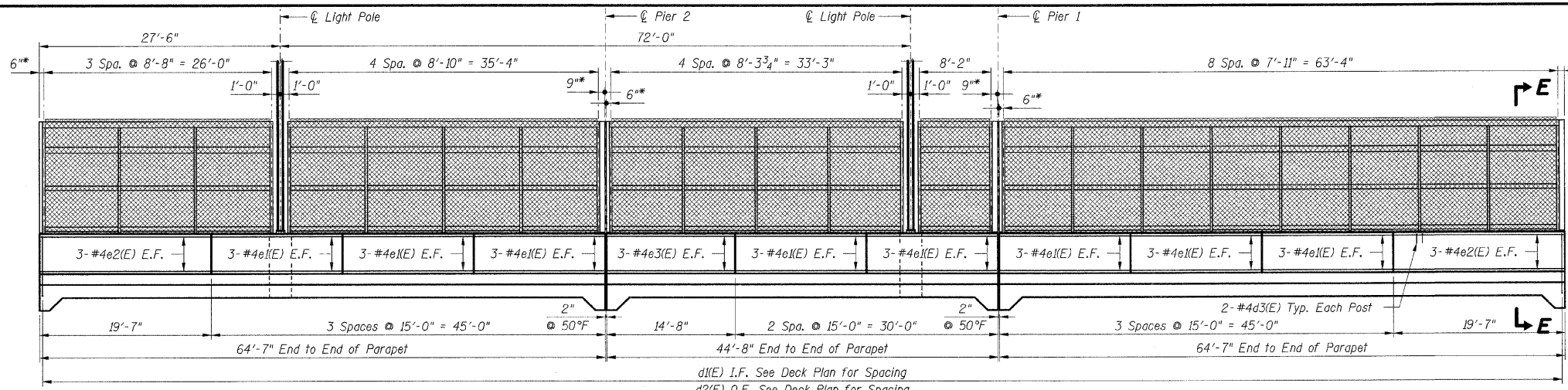
Reinforcing Notes:

- Cut bars to fit in field and use remainder in opposite end of deck.
- Use remainder of bars from opposite end of deck.



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ENGINEERS/ARCHITECTS/PLANNERS
225 N. MORGAN AVE., CHICAGO, IL 60601
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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				



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.

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

- Notes:**
- Work this sheet with Shts. S-006 & S-008.
 - Slipforming of parapets is not allowed.
 - 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.
 - E.F. indicates Each Face
I.F. indicates Inside Face
O.F. indicates Outside Face

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

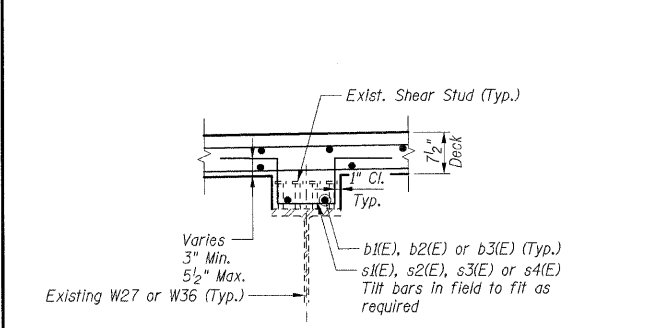
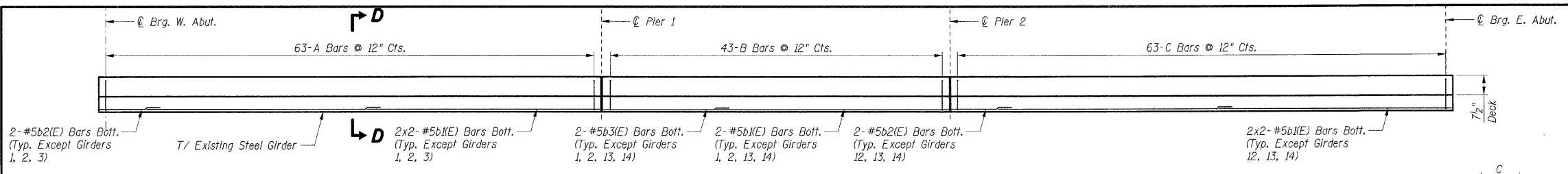
SUPERSTRUCTURE DETAILS 1

DATE: 01/16/09

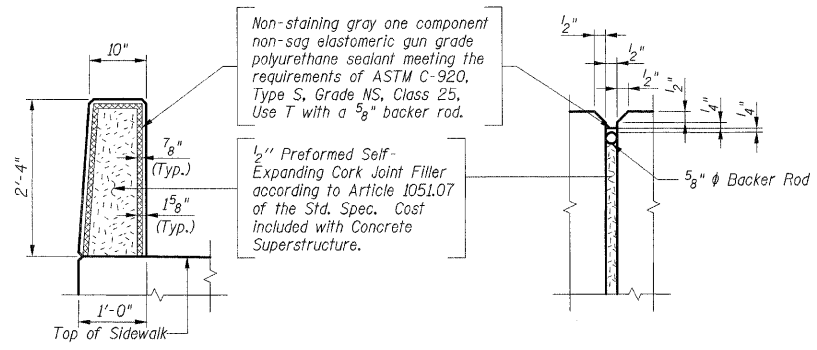
DRAWN BY: TMH
CHECKED BY: JLR

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ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE., CHICAGO, IL 60601
TELEPHONE: 312.644.6000

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.1B-R	COOK	101	072
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62532				



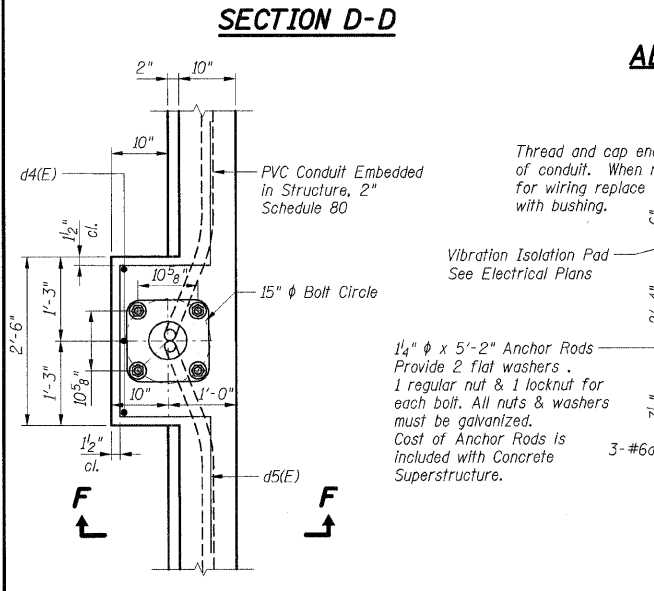
GIRDER	A	B	C
1	-	-	s2(E)
2	-	-	s2(E)
3	-	s4(E)	s2(E)
4	s1(E)	s4(E)	s2(E)
5	s2(E)	s4(E)	s2(E)
6	s2(E)	s4(E)	s2(E)
7	s2(E)	s4(E)	s2(E)
8	s2(E)	s4(E)	s2(E)
9	s3(E)	s4(E)	s2(E)
10	s3(E)	s4(E)	s2(E)
11	s3(E)	s4(E)	s1(E)
12	s2(E)	s4(E)	-
13	s2(E)	-	-
14	s2(E)	-	-



Bar	A	B	C
d5(E)	2'-3"	1'-4"	2'-0"
s1(E)	0'-10"	0'-7"	1'-3"
s2(E)	0'-10"	0'-8 1/2"	1'-3"
s3(E)	0'-10"	0'-9 1/2"	1'-3"
s4(E)	0'-8"	0'-7"	1'-3"

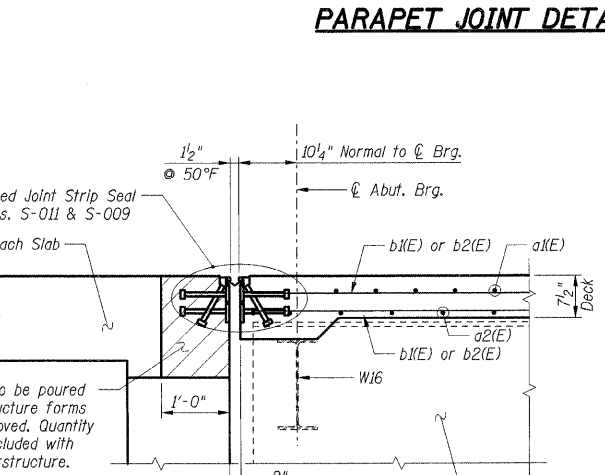
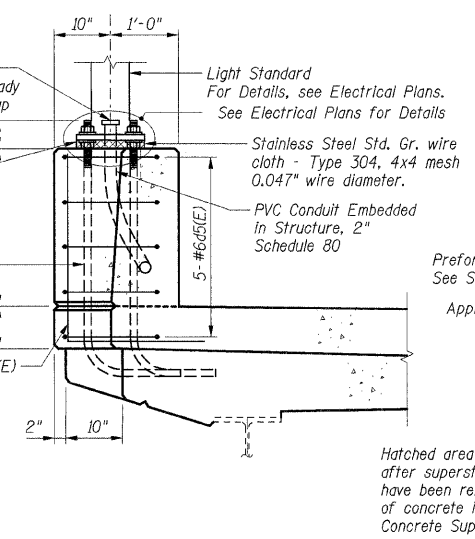
Bars d5(E), s1(E), s2(E), s3(E) & s4(E)

BAR LIST				
Bar	No.	Size	Length	Shape
a1(E)	604	#5	42'-0"	
a2(E)	633	#5	28'-4"	
a3(E)	48	#5	2'-0"	
b1(E)	968	#5	30'-0"	
b2(E)	388	#5	9'-0"	
b3(E)	192	#5	16'-7"	
c1(E)	350	#5	2'-5"	
c2(E)	362	#5	8'-1"	
d1(E)	350	#6	4'-4"	
d2(E)	350	#4	4'-11"	
d3(E)	96	#4	2'-0"	
d4(E)	12	#6	4'-8"	
d5(E)	20	#6	8'-11"	
e1(E)	96	#4	14'-8"	
e2(E)	24	#4	19'-3"	
e3(E)	12	#4	14'-4"	
s1(E)	126	#5	4'-6"	
s2(E)	1071	#5	4'-9"	
s3(E)	189	#5	4'-11"	
s4(E)	430	#5	4'-4"	

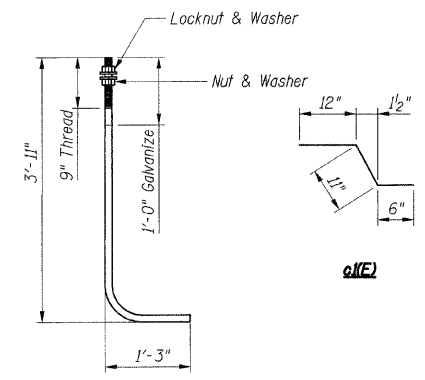


LIGHT POLE FOUNDATION PLAN

ADDITIONAL FILLET REINFORCEMENT



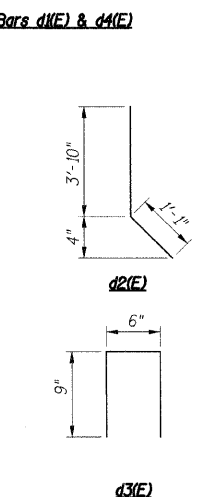
SECTION B-B



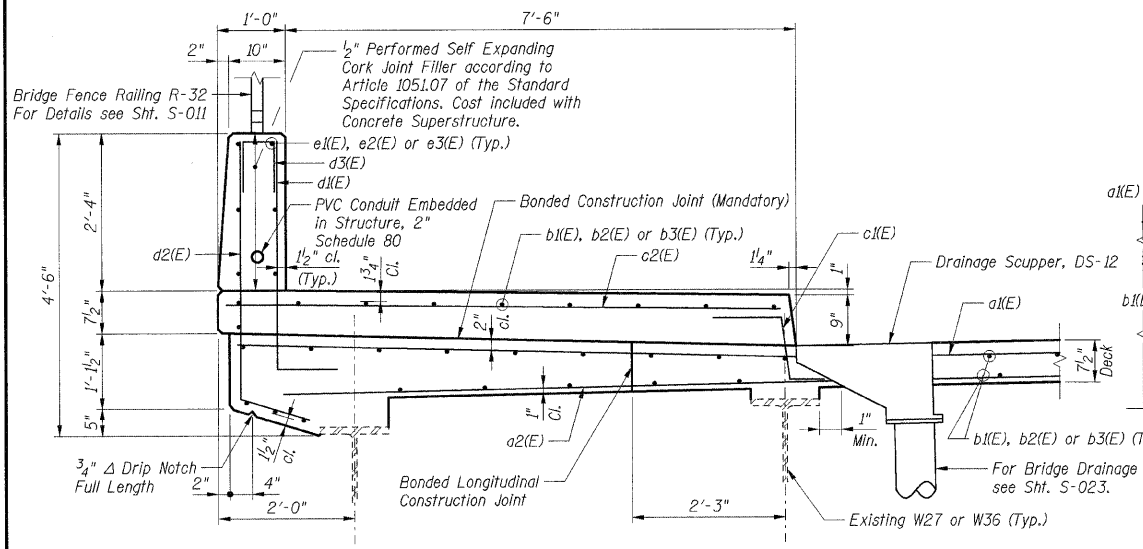
1/4" ANCHOR ROD (ASTM F 1554 Grade 105)

Bar	A	B
d1(E)	3'-5 1/2"	0'-10 1/2"
d4(E)	2'-8"	2'-0"

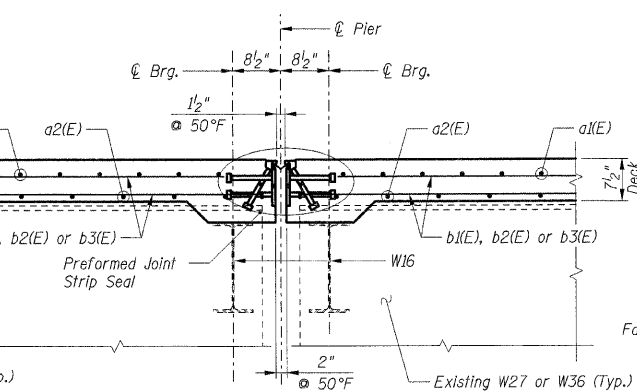
Bars d1(E) & d4(E)



SCUPPER PLAN (6 Thus)



SECTION E-E



SECTION C-C

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

- Notes:
1. Work this sheet with Shits. S-006 & S-007.
 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

SHIT. S-008	
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 2

DATE: 01/16/09

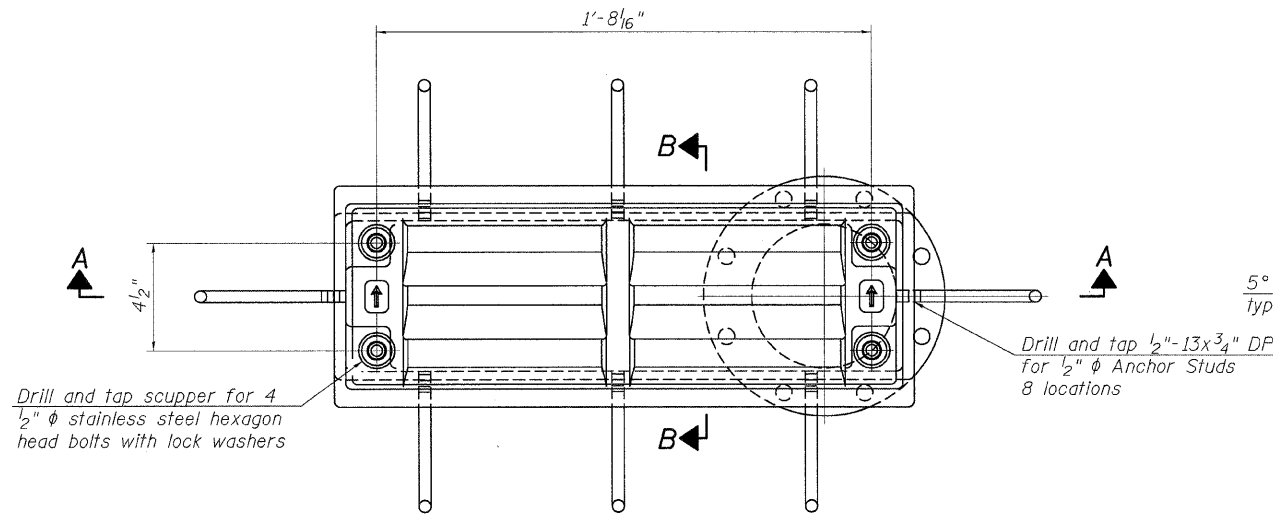
DRAWN BY: TMH
 CHECKED BY: JLR

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 TENG & ASSOCIATES, INC.
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 205 N. MICHIGAN AVE., CHICAGO, IL 60601
 TELEPHONE: 312.546.0000

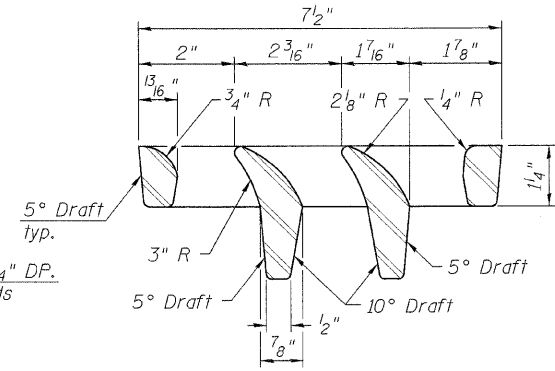
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.1B-R	COOK	101	074
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 62532				

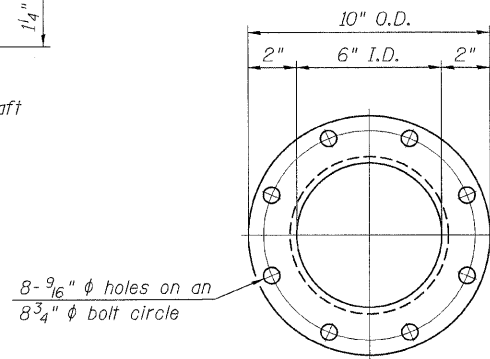
Notes:
 All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.
 Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.
 Downspouts located on the exterior side of a painted steel 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.



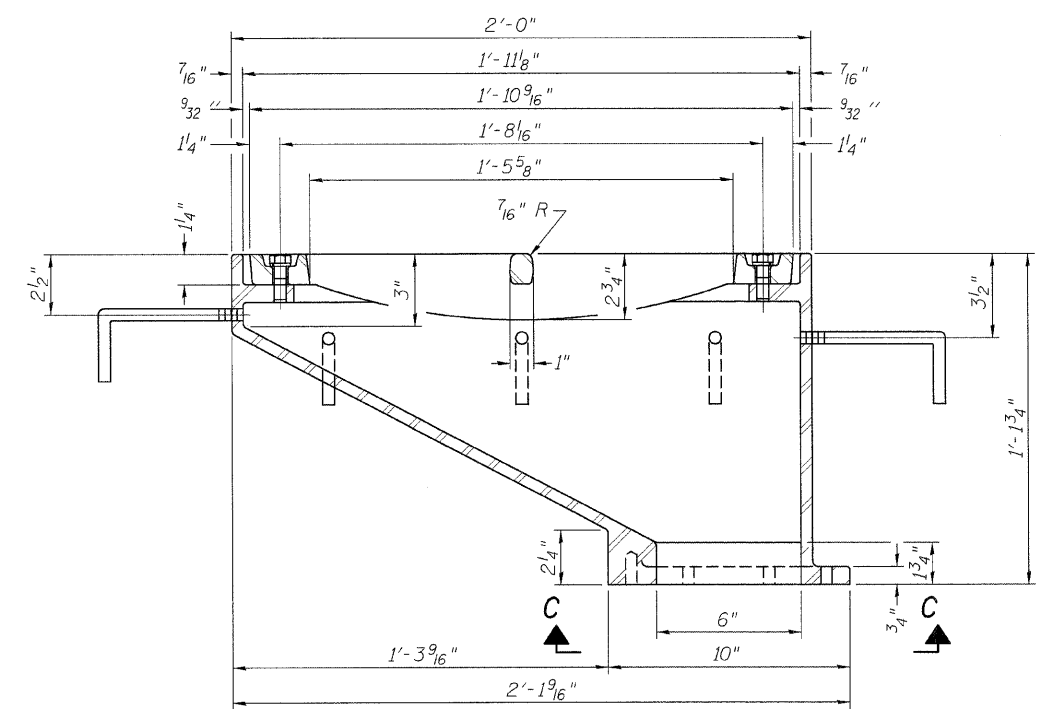
PLAN



VANE GRATE DETAIL

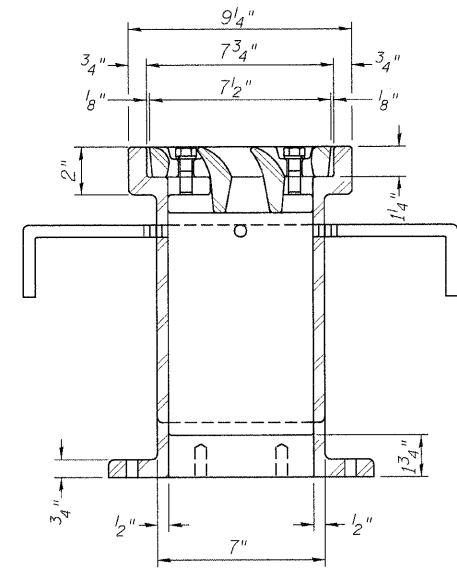


VIEW C-C



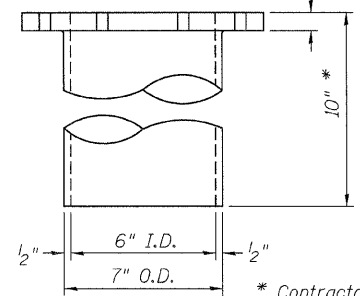
SECTION A-A

See sheet of for scupper location relative to parapet.



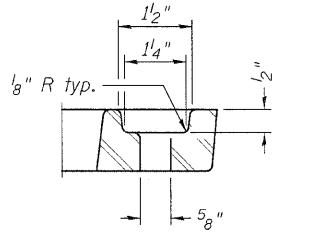
SECTION B-B

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)

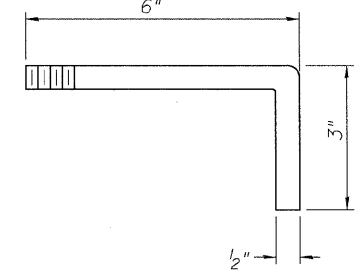


DOWNSPOUT

* Contractor to field verify dimension prior to ordering materials.



BOLT HOLE DETAIL



ANCHOR STUD DETAIL

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-12	Each	6

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

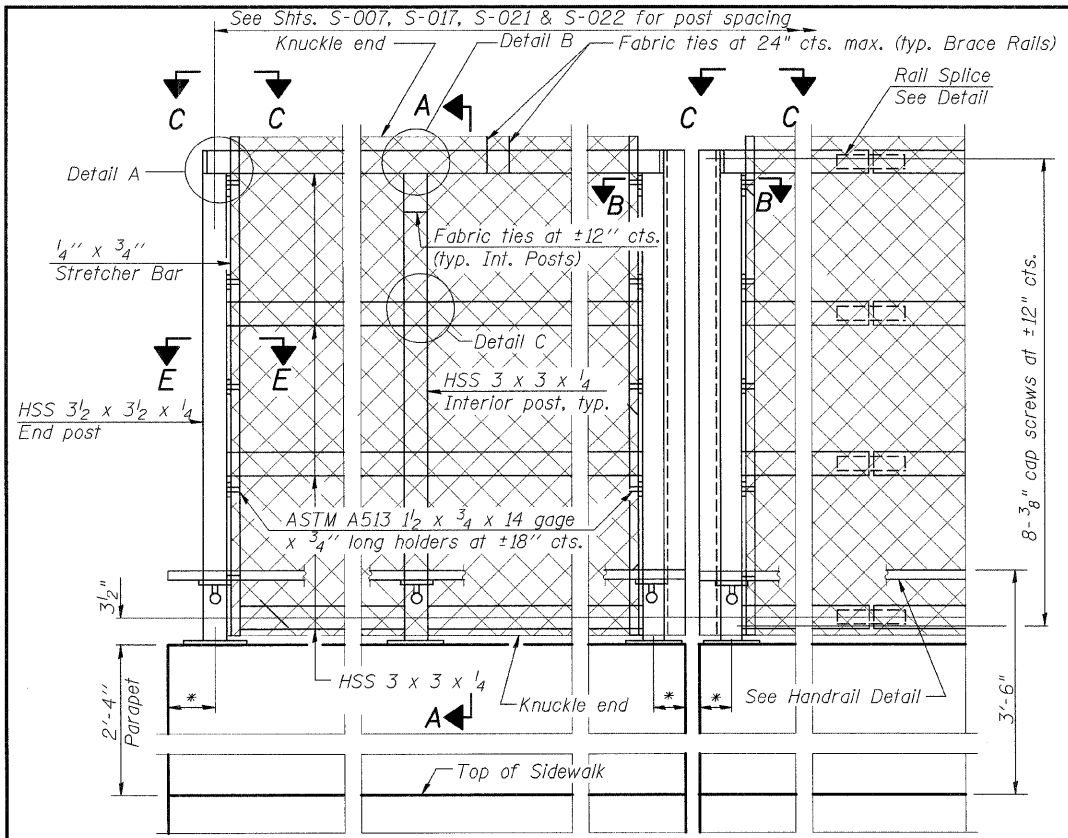
TENG

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 ENGINEERS/ARCHITECTS/PLANNERS
 205 N. MICHIGAN AVE., CHICAGO, IL 60601
 TELEPHONE: 312.461.0000

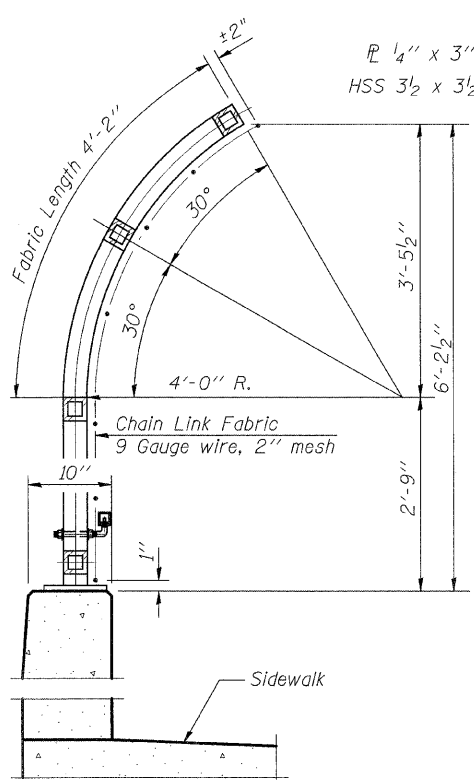
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.1B-R	COOK	101	075
STA.	TO STA.			
FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 62532				

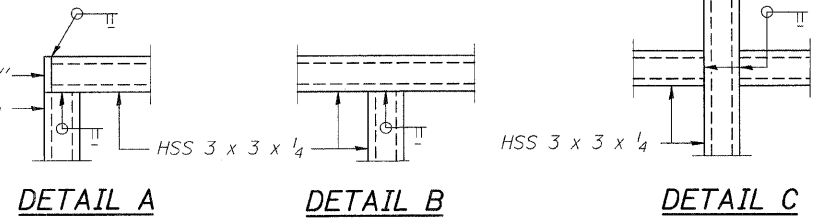
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.



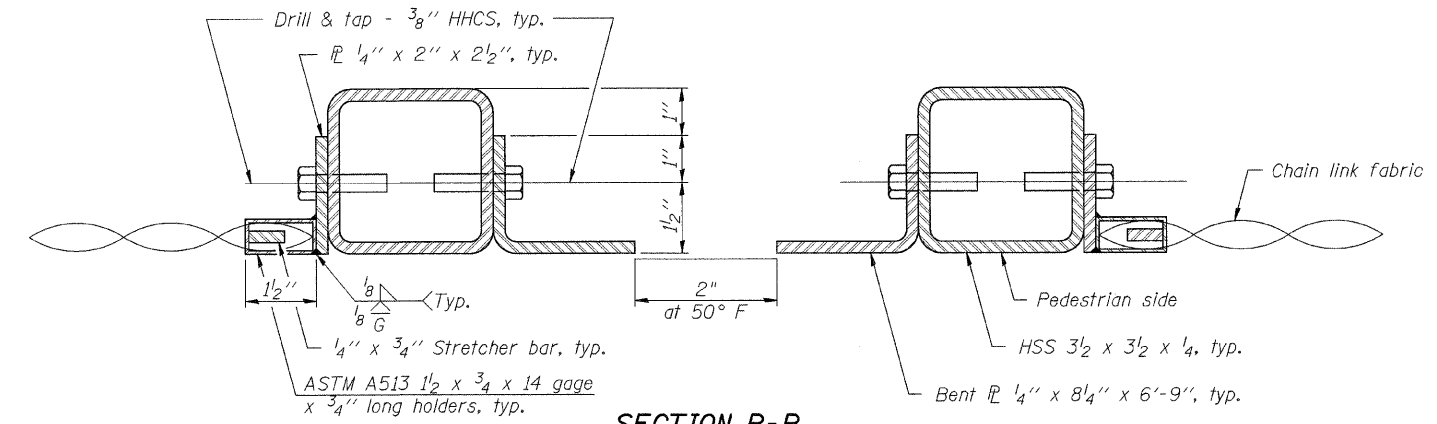
ELEVATION
(Inside Face)



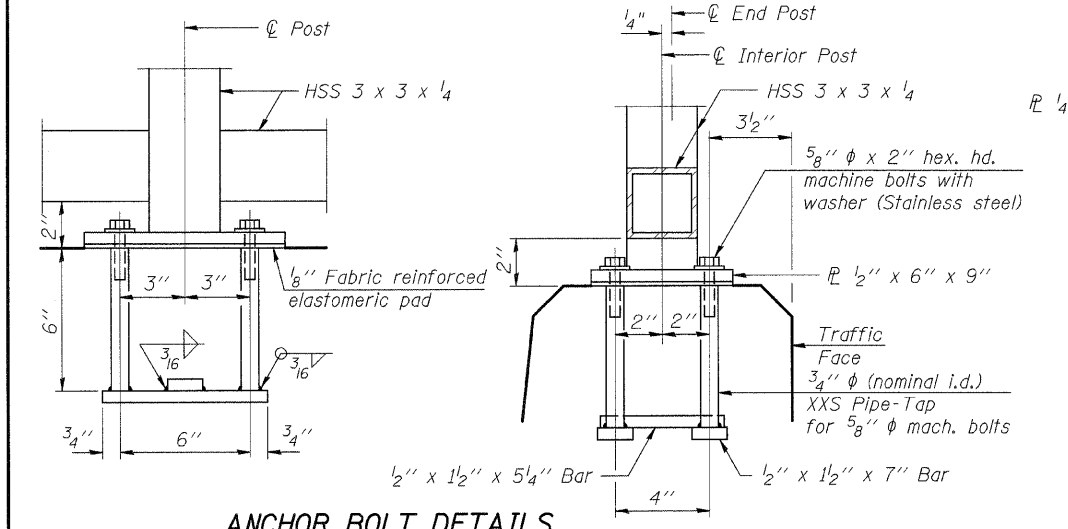
SECTION A-A



DETAIL A **DETAIL B** **DETAIL C**

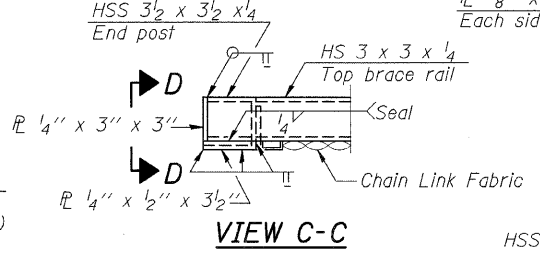


SECTION B-B
(At Expansion Joint)

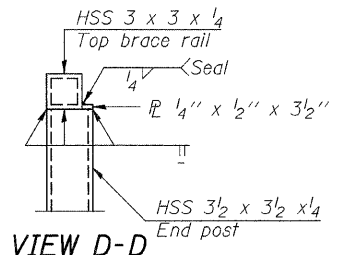


ANCHOR BOLT DETAILS

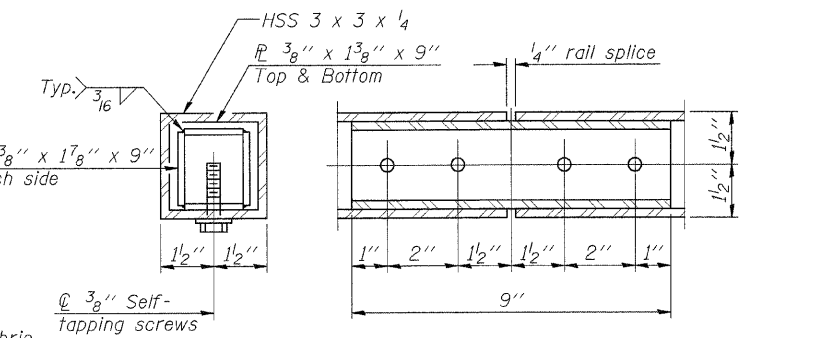
In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8\"/>



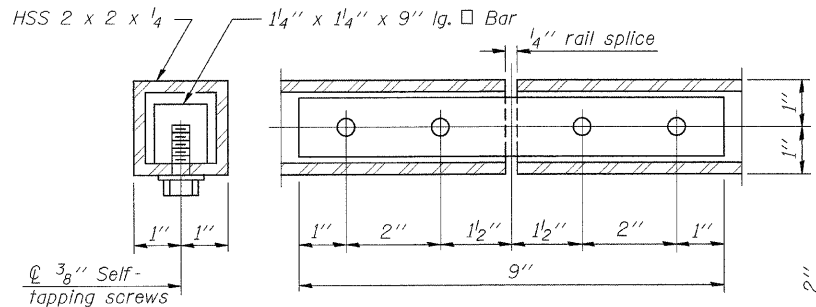
VIEW C-C



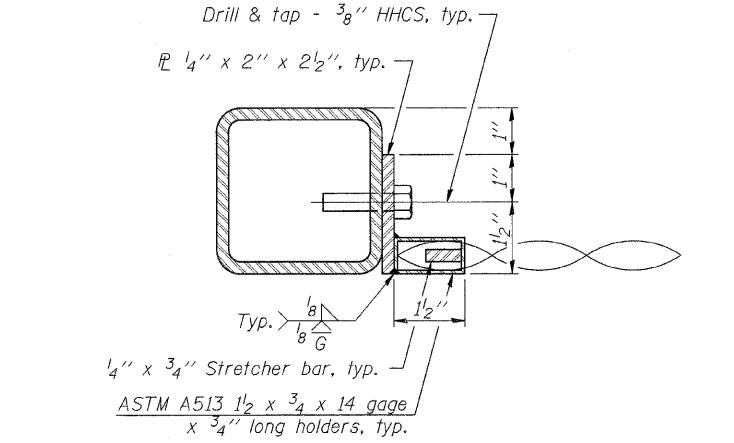
VIEW D-D



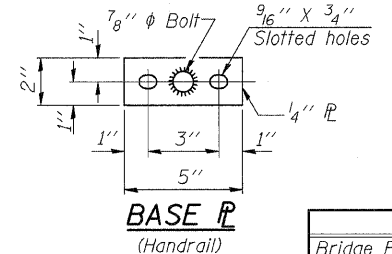
RAIL SPLICE



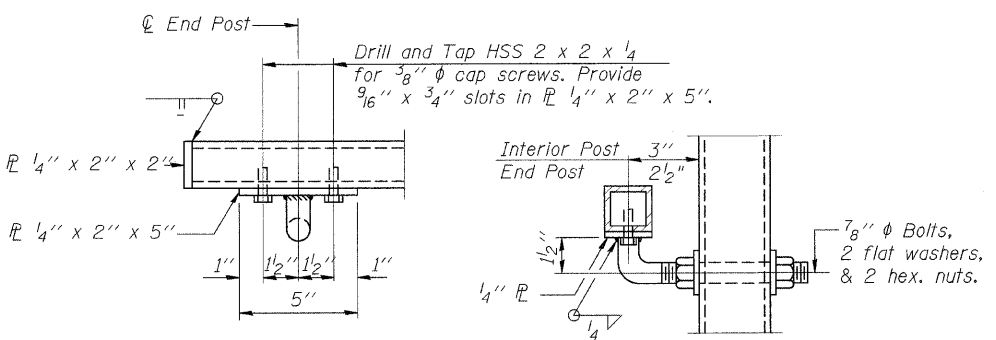
HANDRAIL SPLICE



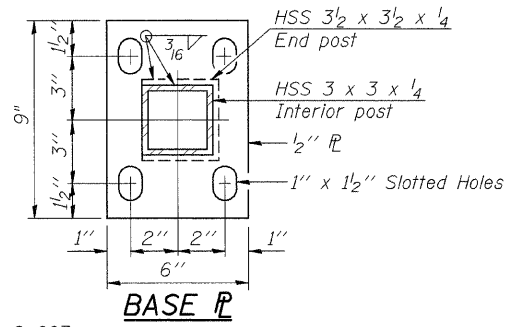
SECTION E-E



BASE PLATE
(Handrail)



HANDRAIL DETAIL



BASE PLATE

BILL OF MATERIAL

Item	Unit	Quantity
Bridge Fence Railing	Foot	435

SHT. S-011

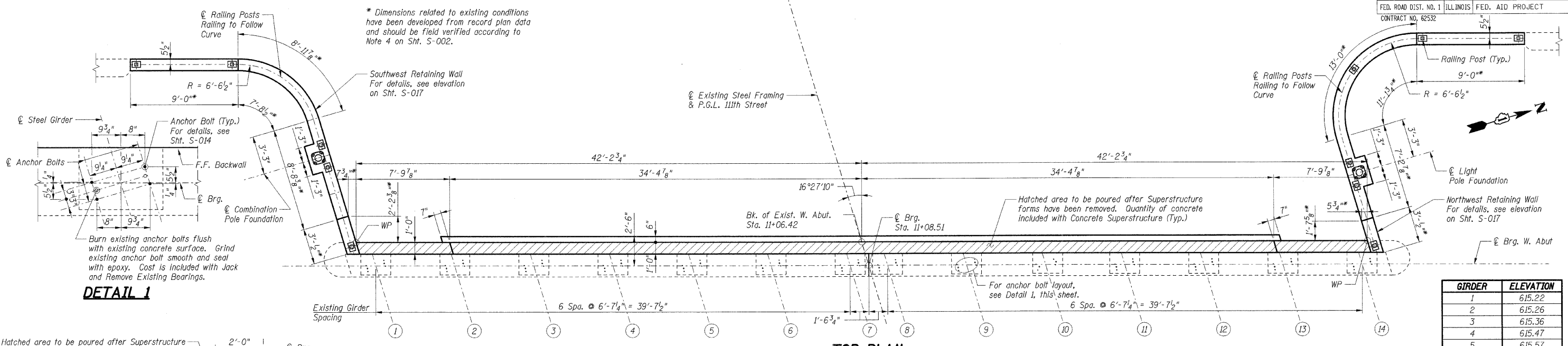
REVISIONS	DATE

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
 BRIDGE FENCE RAILING
 PARAPET MOUNTED 1
 DATE: 01/16/09
 DRAWN BY: TMH
 CHECKED BY: JLR



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

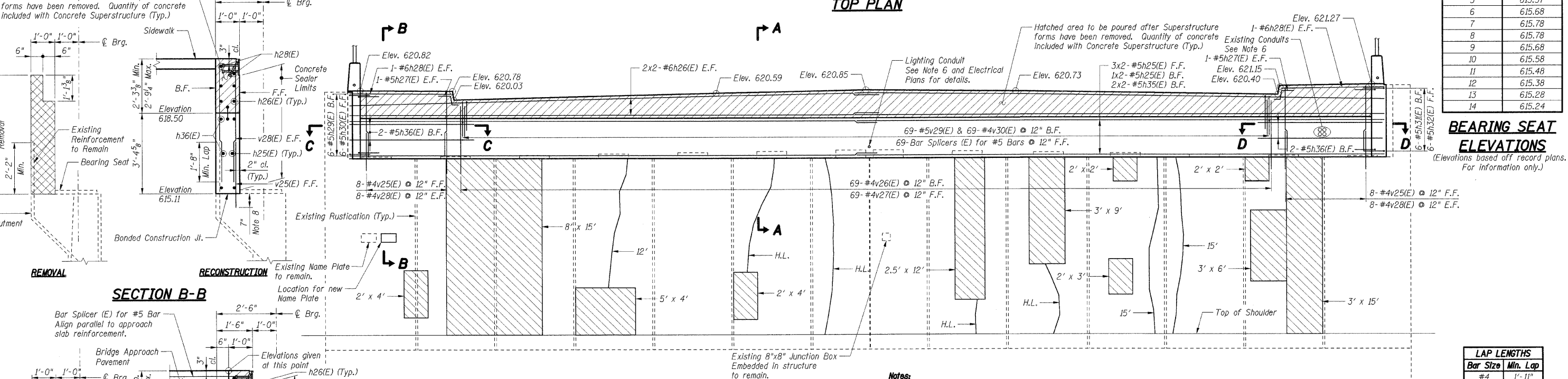
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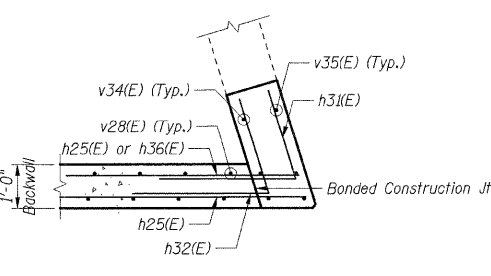
DETAIL 1

GIRDER	ELEVATION
1	615.22
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.)



ELEVATION
(Looking West)



- Notes:**
- Work this sheet with Sht. S-017.
 - 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.
 - E.F. indicates Each Face
F.F. indicates Front Face
B.F. indicates Back Face
 - Cost of all sleeves, grout and associated work required for extending conduit through backwall shall be included with Concrete Structures.
 - 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 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.
 - For bar splicer details, see Sht. S-024.
 - Crack widths are 1/16" ± unless noted otherwise.
 - Girders shall be supported during concrete repairs. Cost shall be included with Jack and Remove Existing Bearings.

LEGEND

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

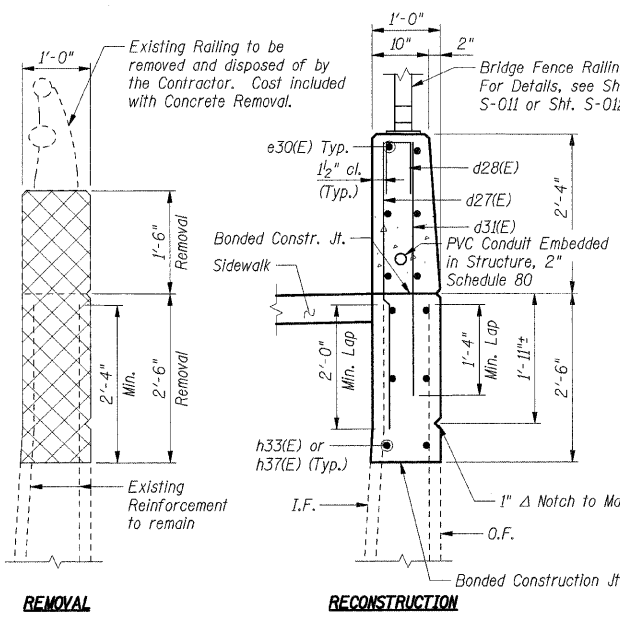
LAP LENGTHS	
Bar Size	Min. Lap
#4	1'-11"
#5	2'-5"
#6	2'-10"

SHT. S-016

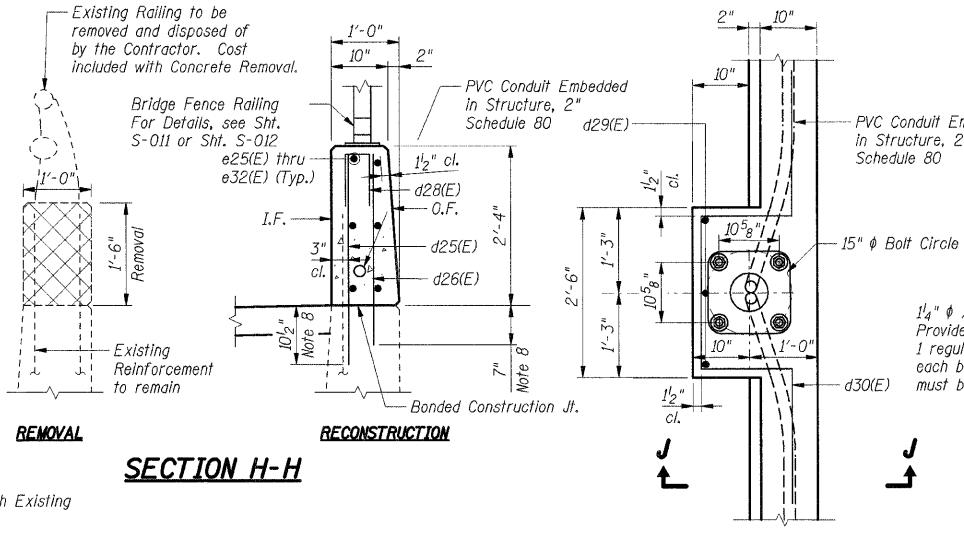
REVISIONS	
NAME	DATE

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

WEST 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: 312.616.0000

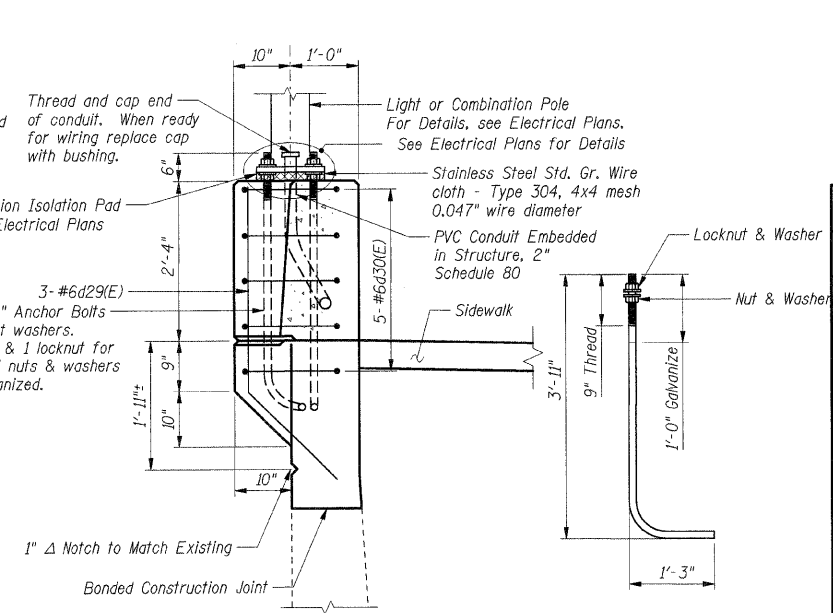


SECTION G-G



SECTION H-H

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



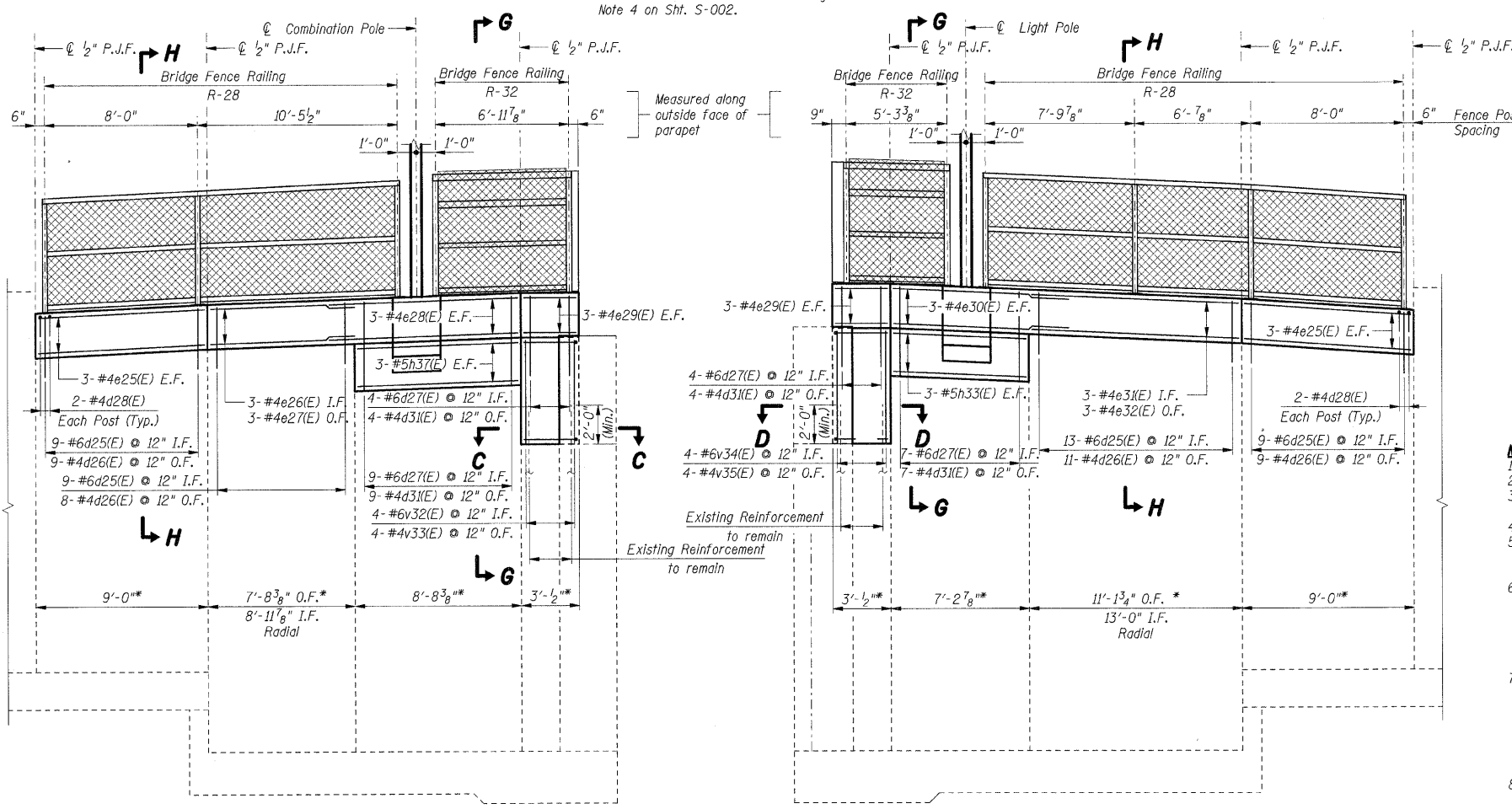
SECTION J-J

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

BAR LIST

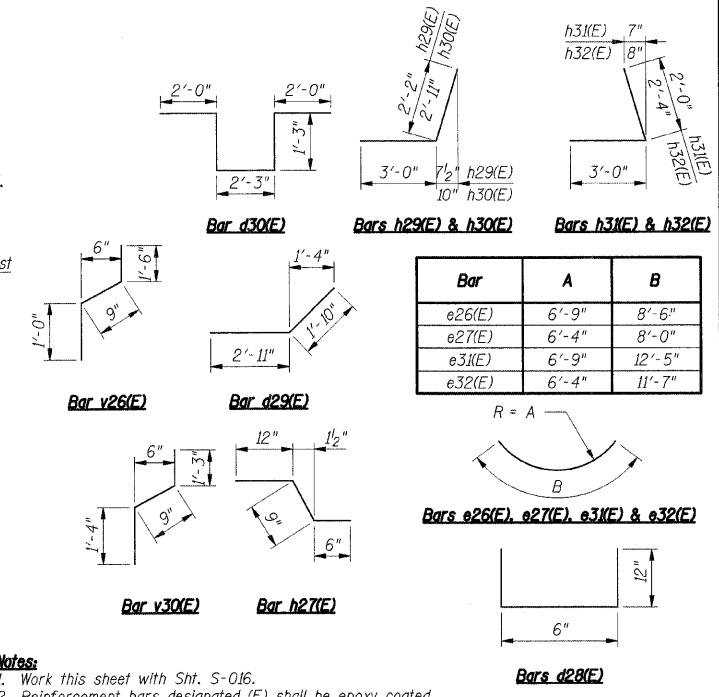
Bar	No.	Size	Length	Shape
d25(E)	40	#6	3'-1"	
d26(E)	37	#4	2'-9"	
d27(E)	24	#6	4'-4"	
d28(E)	22	#4	2'-6"	
d29(E)	6	#6	4'-9"	
d30(E)	10	#6	8'-11"	
d31(E)	24	#4	3'-8"	
e25(E)	12	#4	8'-8"	
e26(E)	3	#4	8'-6"	
e27(E)	3	#4	8'-0"	
e28(E)	6	#4	10'-5"	
e29(E)	12	#4	2'-9"	
e30(E)	6	#4	9'-0"	
e31(E)	3	#4	12'-5"	
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.

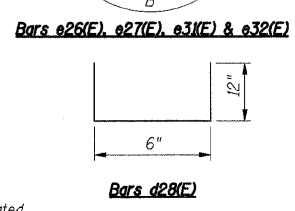


DEVELOPED ELEVATION SOUTHWEST RETAINING WALL

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"



LAP LENGTHS

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

- 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

SHT. S-017

REVISIONS	
NAME	DATE

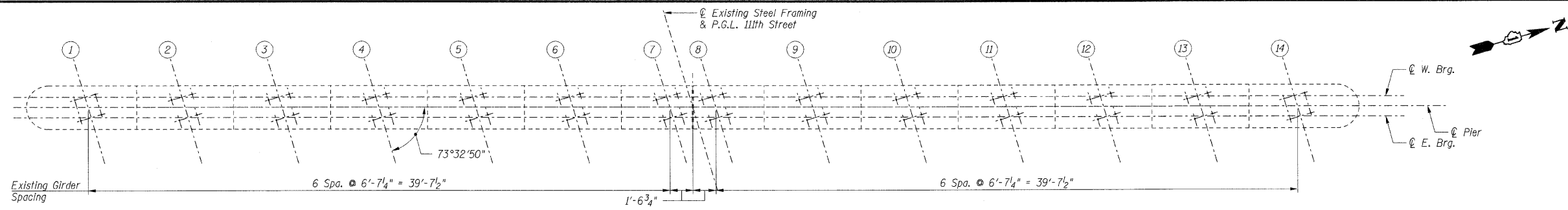
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. ROUTE 57 (INTERSTATE 57)
111TH STREET BRIDGE DECK REPLACEMENT
111th STREET OVER I-57
SN 016-0989 STA. 556+99.89
COOK COUNTY

WEST ABUTMENT
DETAILS AND BILL OF MATERIAL

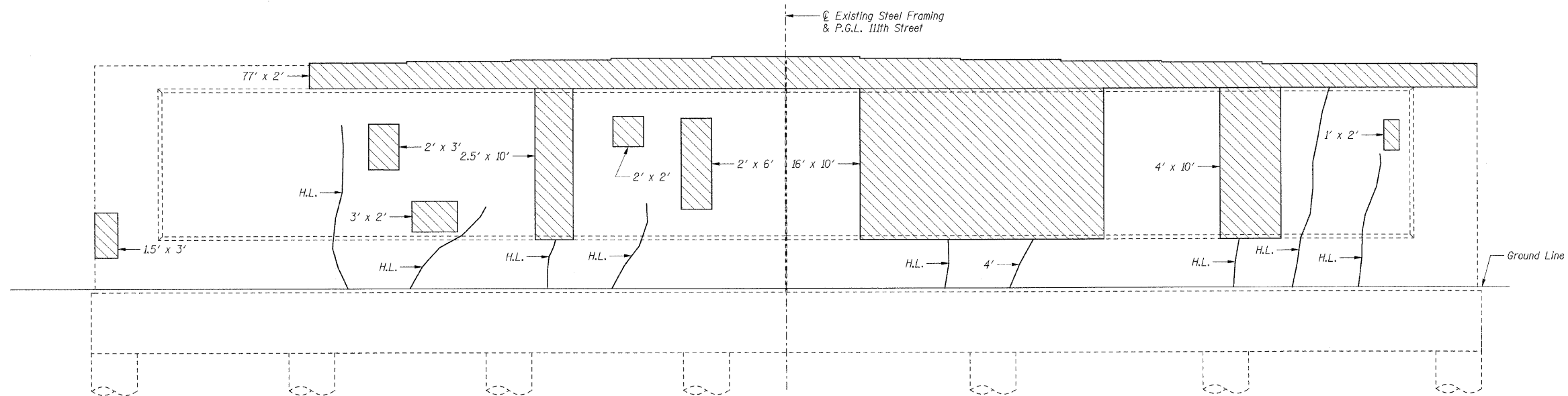
DATE: 01/16/09
DRAWN BY: TMH
CHECKED BY: JLR

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

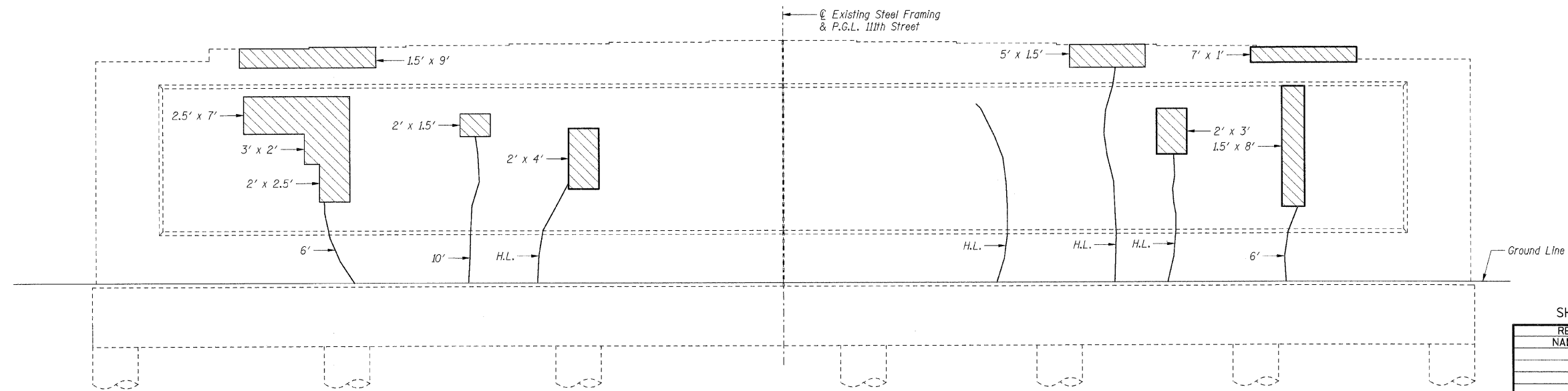
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.1B-R	COOK	101	082
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62532				



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"
 - 6' → Epoxy Crack Injection
 - 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	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

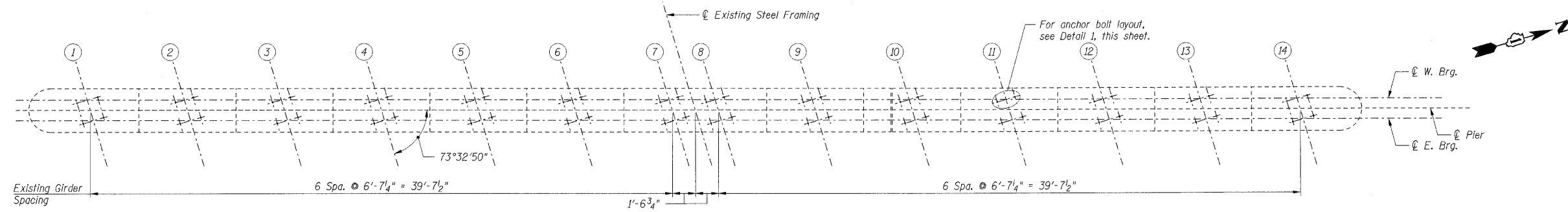
DATE: 01/16/09

DRAWN BY: TMH
 CHECKED BY: JLR

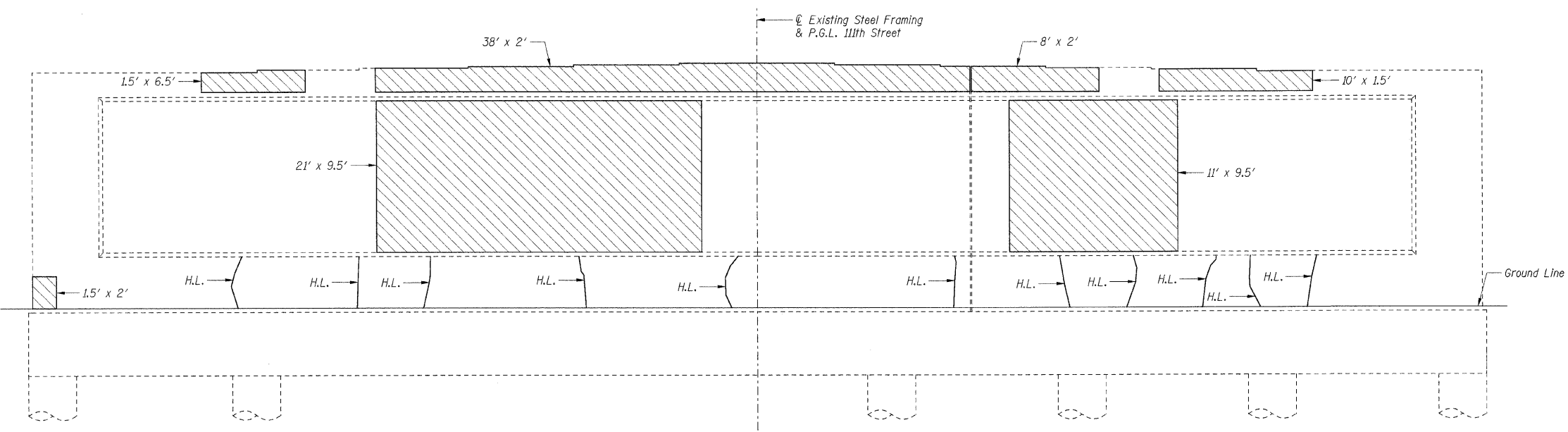
TENG
 TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 205 N. MICHIGAN AVE., CHICAGO, IL 60601
 TELEPHONE 312.616.0000

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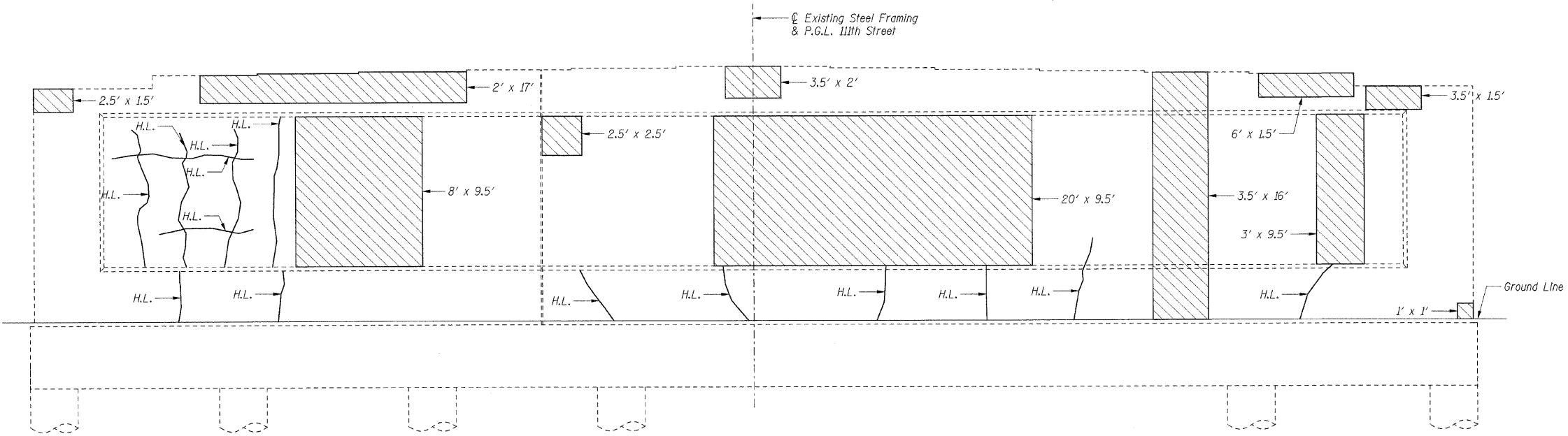
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.18-R	COOK	101	083
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62532				



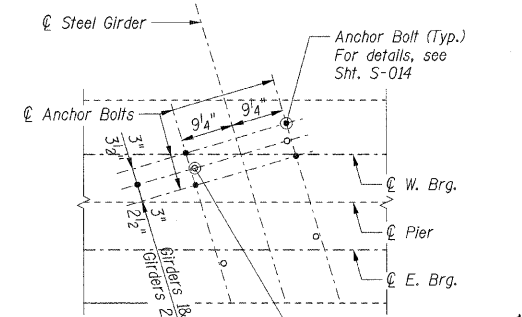
TOP PLAN



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

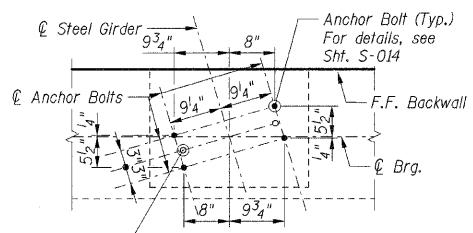
DATE: 01/16/09

DRAWN BY: TMH
CHECKED BY: JLR

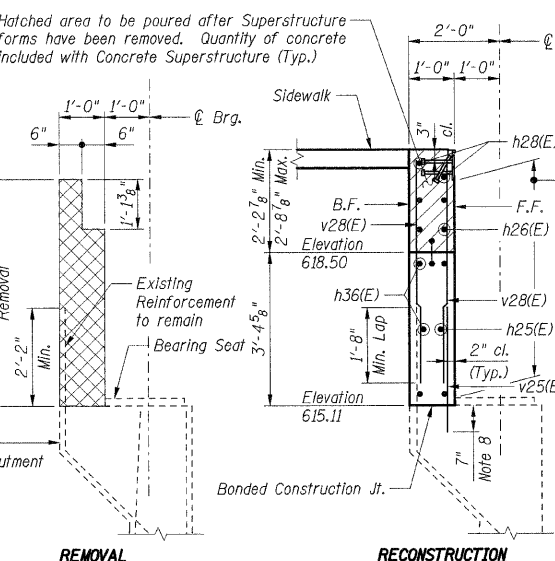
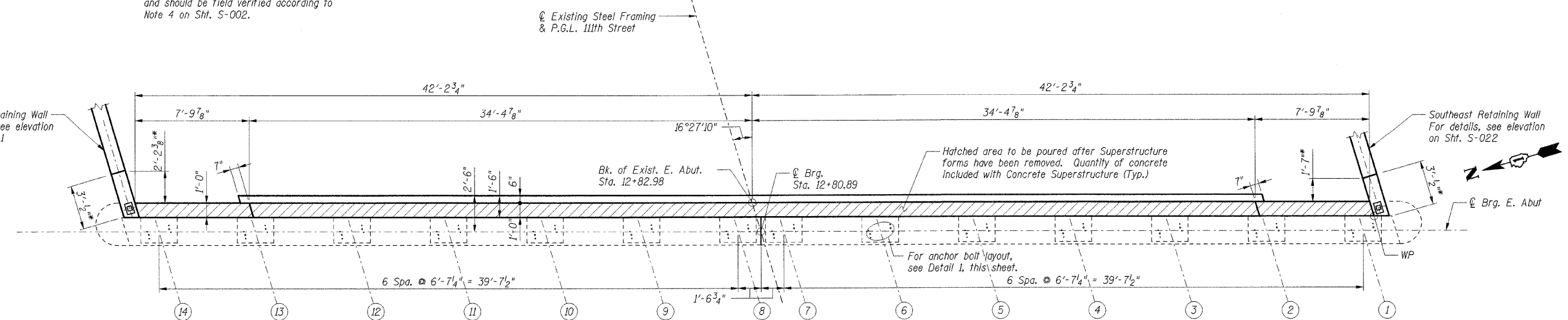
TENG
TENG & ASSOCIATES, INC.
ENGINEERS/ARCHITECTS/PLANNERS
205 N. MICHIGAN AVE., CHICAGO, IL 60601
TELEPHONE: 312.618.0000

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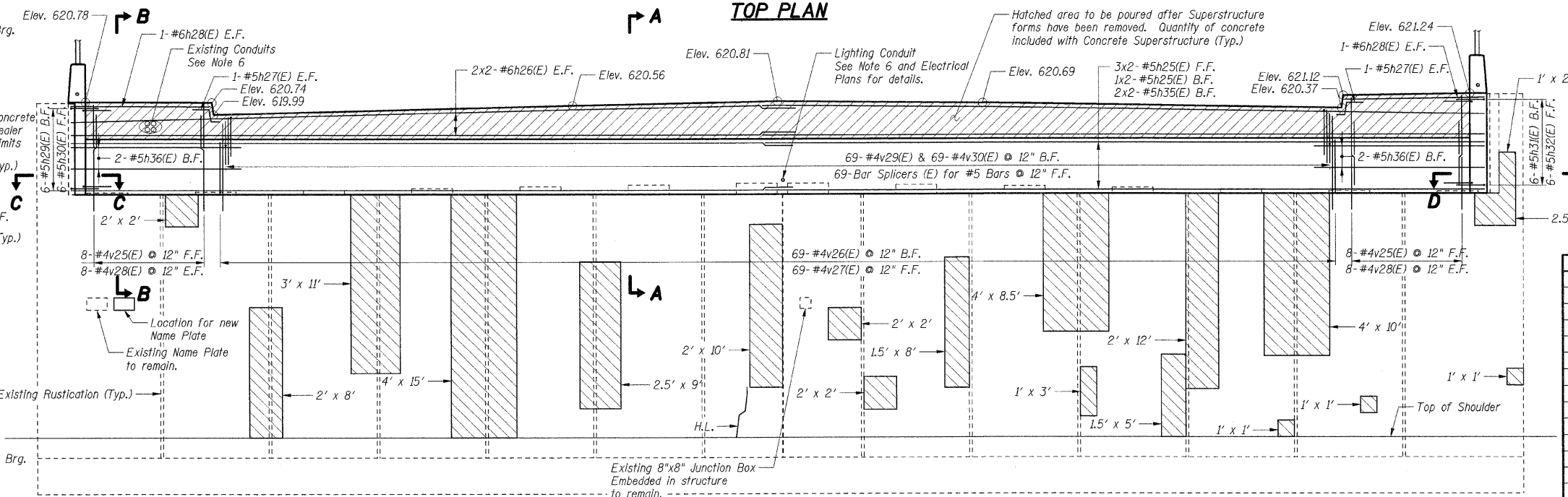
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.1B-R	COOK	101	084
STA.	TO STA.			
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
CONTRACT NO. 62532				



* 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.



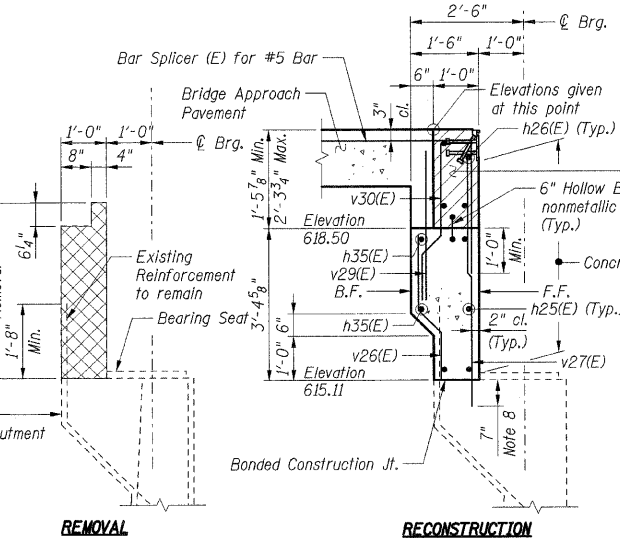
SECTION B-B



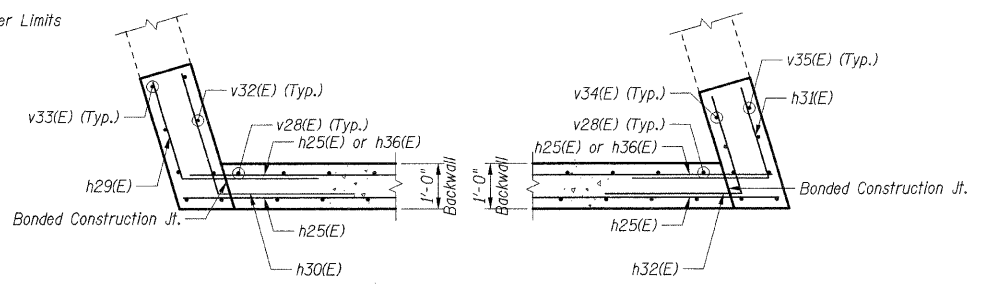
ELEVATION (Looking East)

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

- 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.

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

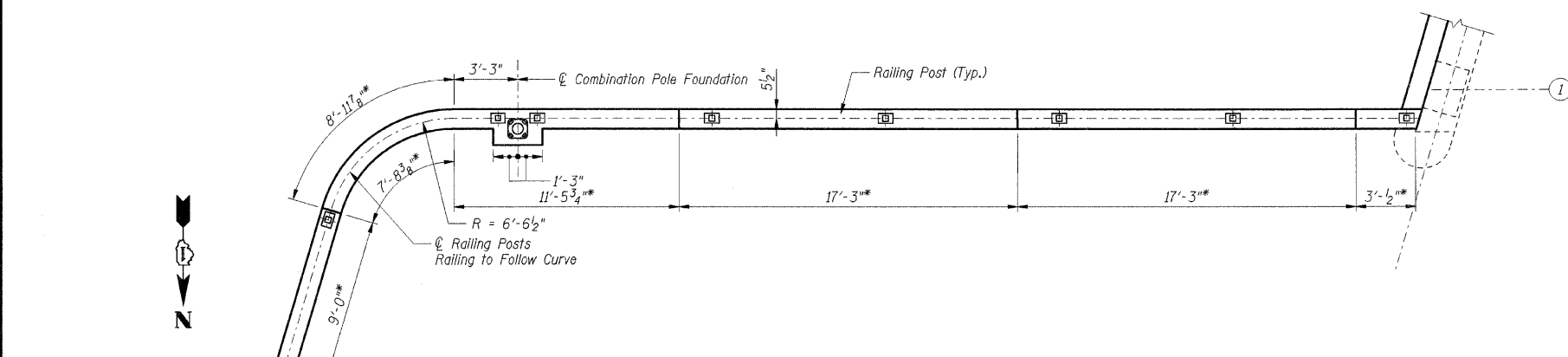
- LEGEND**
- Concrete Removal
 - Structural Repair of Concrete, Depth Equal to or Less Than 5"
 - H.L. Hairline Crack - Not to be Sealed

SHT. S-020

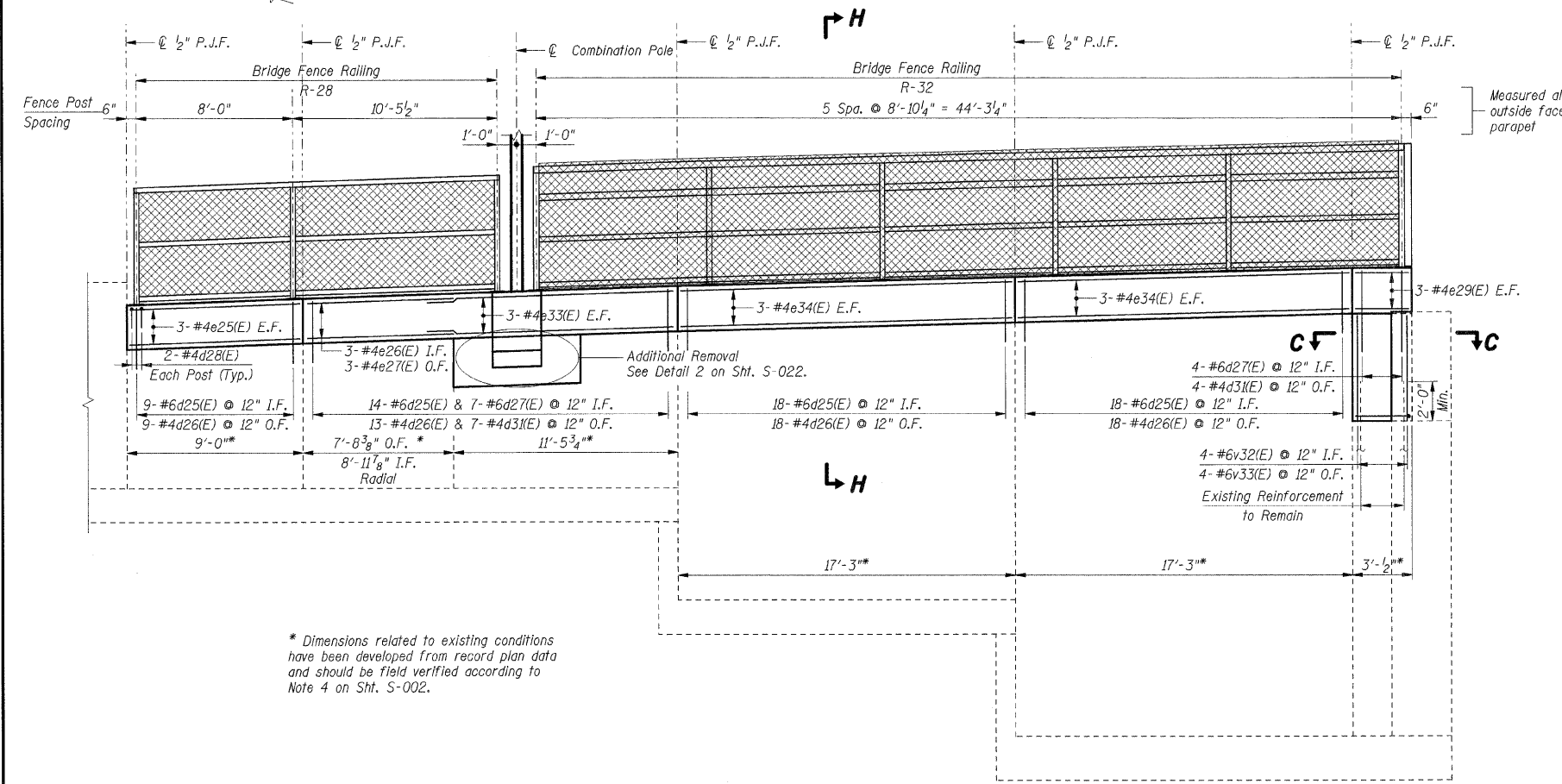
REVISIONS	NAME	DATE

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 312.616.0000

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	2021.1B-R	COOK	101	085
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 62532				



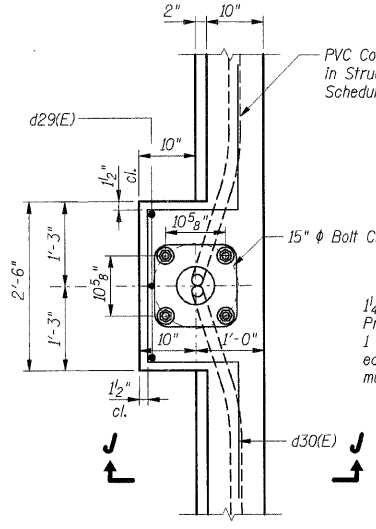
TOP PLAN NORTHEAST RETAINING WALL



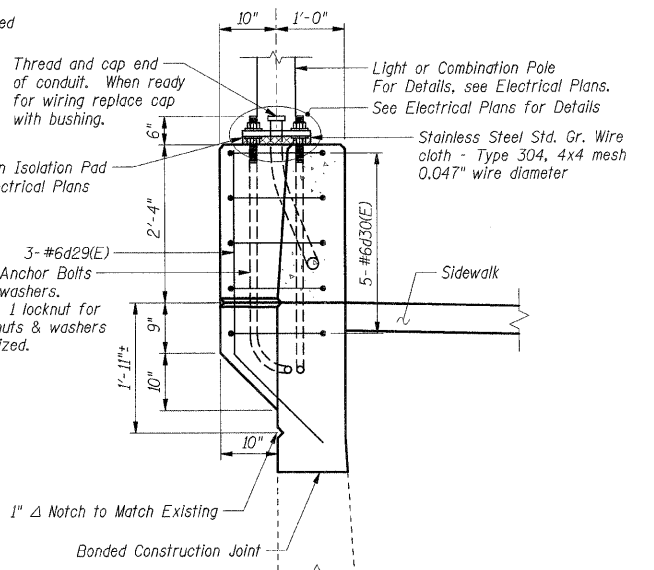
DEVELOPED ELEVATION NORTHEAST RETAINING WALL

* 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.

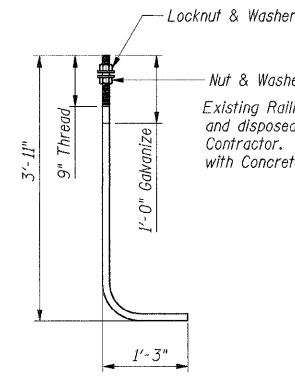
LEGEND
 Concrete Removal



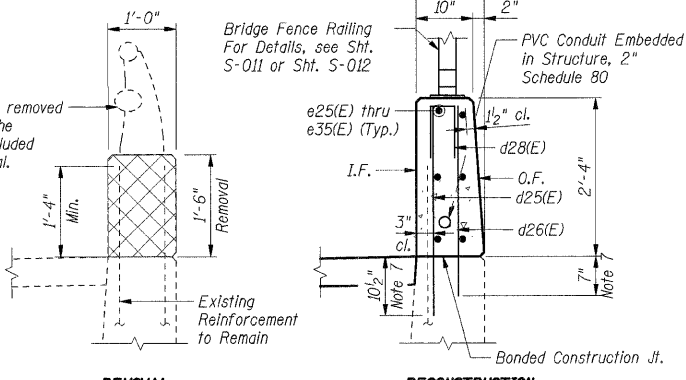
LIGHT & COMBINATION POLE FOUNDATION PLAN
 (1 Thus Light Pole Foundation)
 (1 Thus Combination Pole Foundation)



SECTION J-J



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



SECTION H-H

- Notes:**
- Work this sheet with Shts. S-020 & S-022.
 - 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 1/4" chamfers except as noted.
 - I.F. indicates Inside Face
O.F. indicates Outside Face
B.F. indicates Back Face
 - 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.

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

SHT. S-021

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
 DETAILS

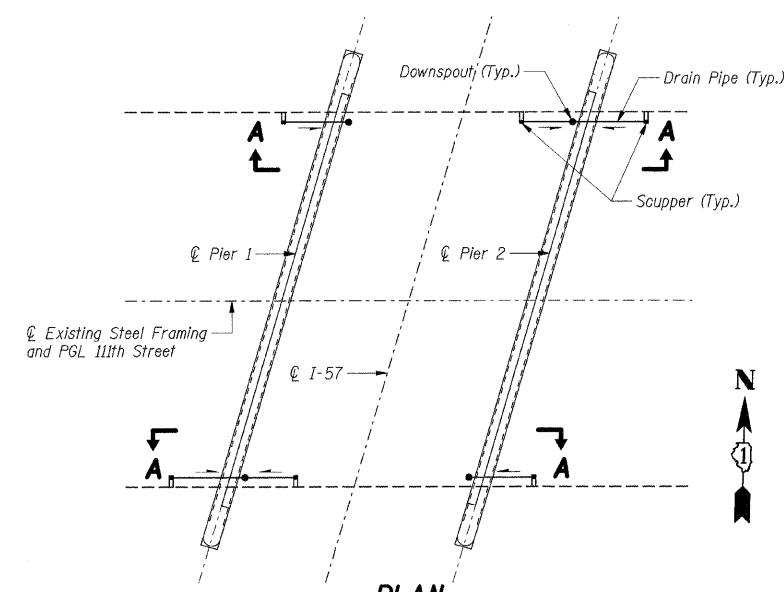
DATE: 01/16/09

DRAWN BY: TMH
 CHECKED BY: JLR

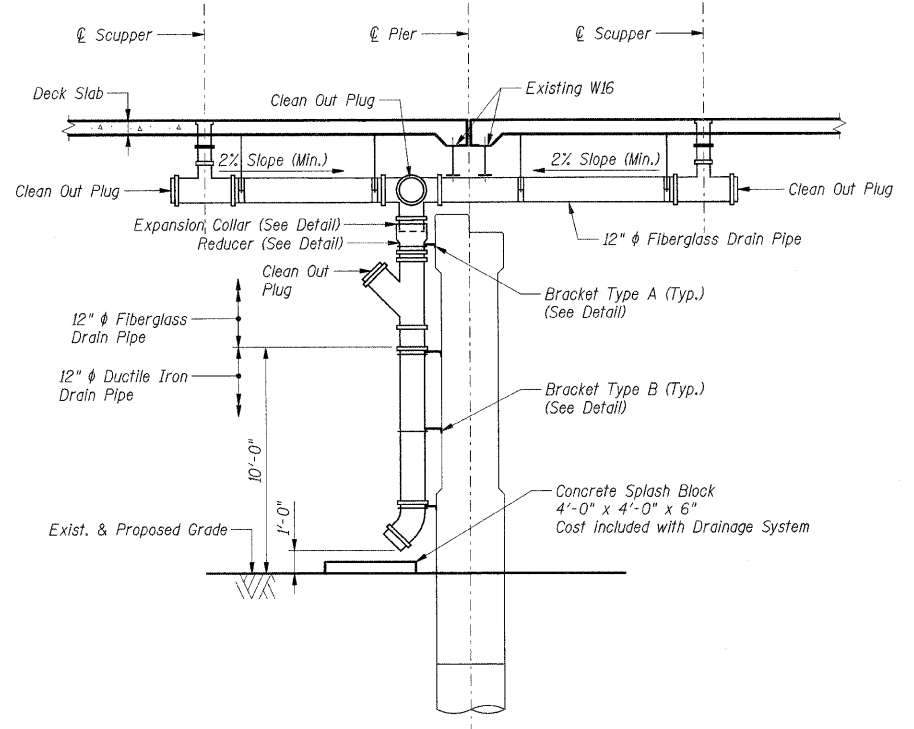
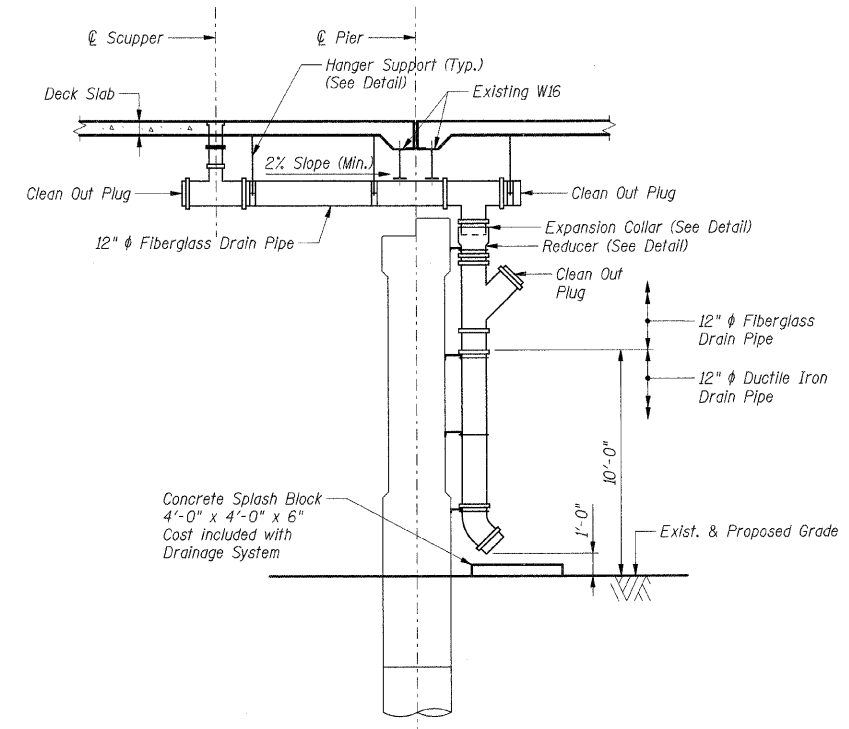
TENG

TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 208 N. MICHIGAN AVE., CHICAGO, IL 60601
 TELEPHONE: 312.641.8000

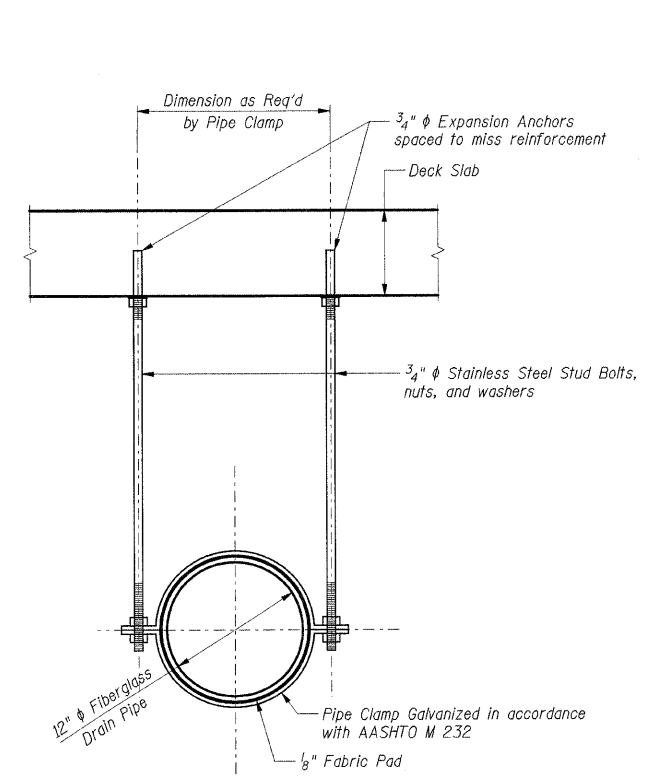
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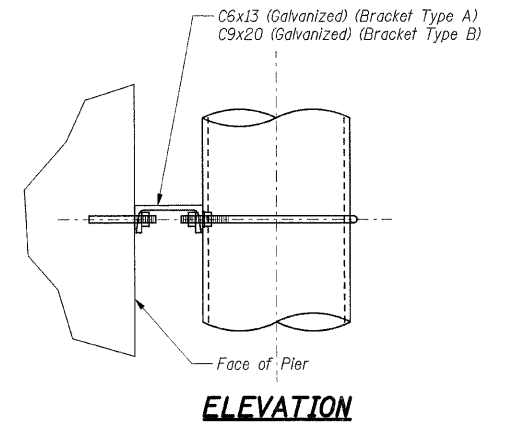
Note:
For Scupper Locations and Scupper Type see Deck Plan Sheet S-006.



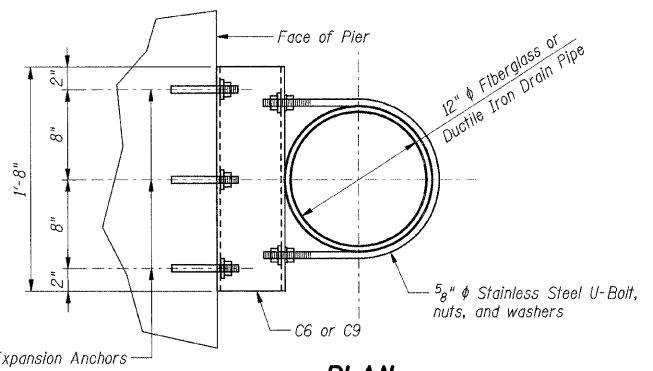
SECTION A-A



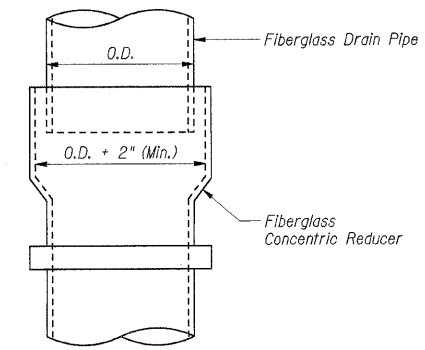
HANGER SUPPORT DETAIL



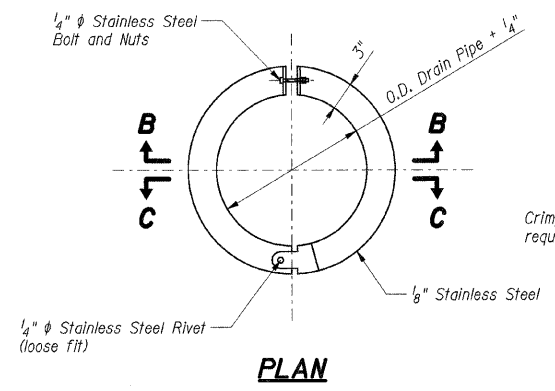
ELEVATION



**PLAN
BRACKET SUPPORT DETAIL**



REDUCER DETAIL



PLAN

SECTION B-B

SECTION C-C

EXPANSION COLLAR DETAIL

DRAINAGE SYSTEM

Item	Unit	Total
12" Fiberglass Drain Pipe *	Feet	108
12" Ductile Iron Drain Pipe *	Feet	36

* Quantities are for information only. Cost of pipes shall be included in the lump sum cost of Drainage System.

SHT. S-023

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

BRIDGE DRAINAGE SYSTEM DETAILS

DATE: 01/16/09

DRAWN BY: CCE
 CHECKED BY: JLR

TENG

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

\AL\DOUG.DEN... \BROOKINGEN... \DIPROKULDEN... \NORONON.O.DEN... \DROONLO.DEN...
 FILE: 2003_KESEY
 T:\DOCUMENT\930866\STRUCT\DRD\DRD.DEN... RITCHIE
 color table: 63 STANDARD.TENG\DATA\COLORTABLE.TBL
 pen table: N/A

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

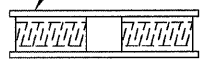
The diameter of this part is equal or larger than the diameter of bar spliced.

ROLLED THREAD DOWEL BAR



**** ONE PIECE**

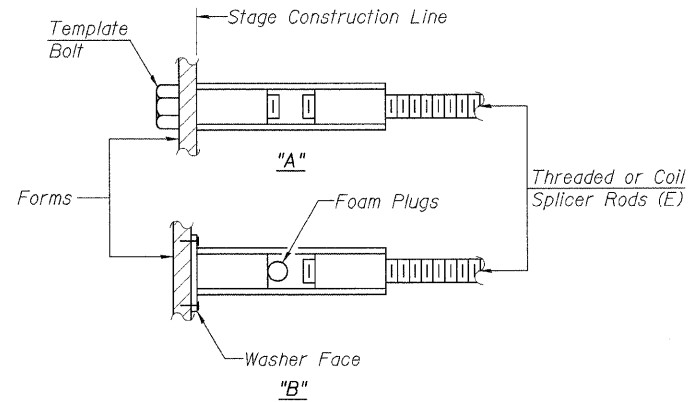
Wire Connector



WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

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



INSTALLATION AND SETTING METHODS

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

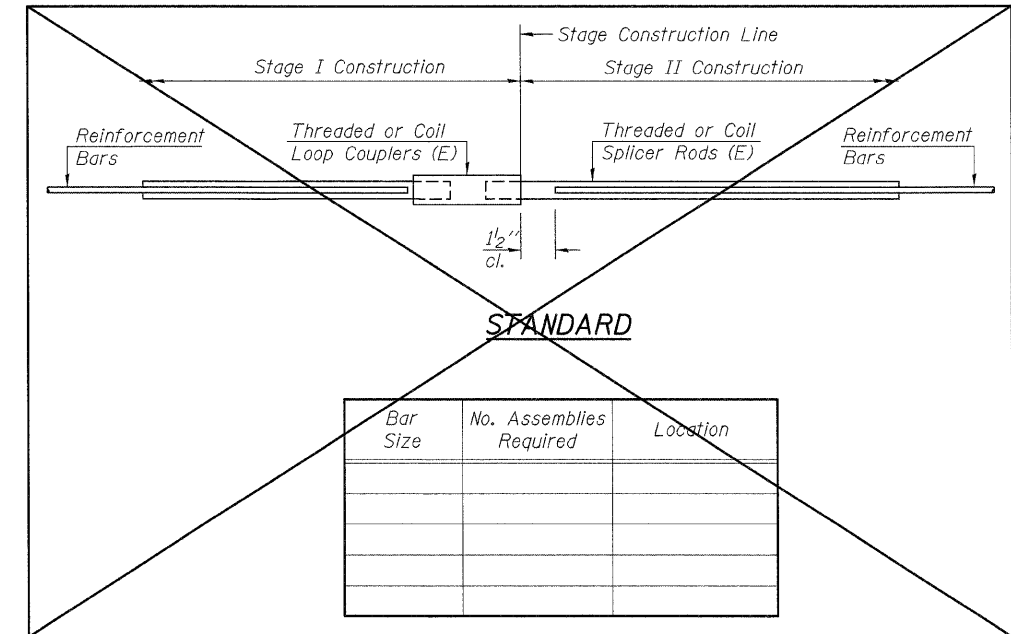
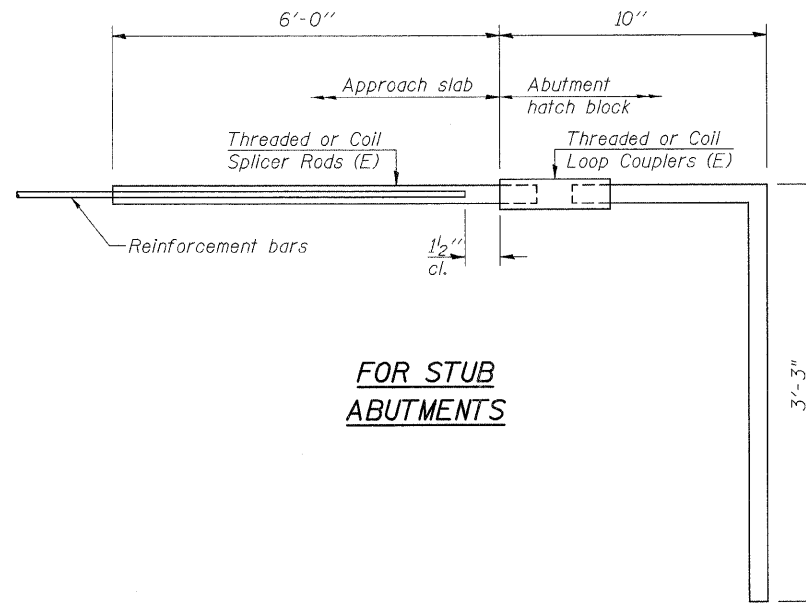
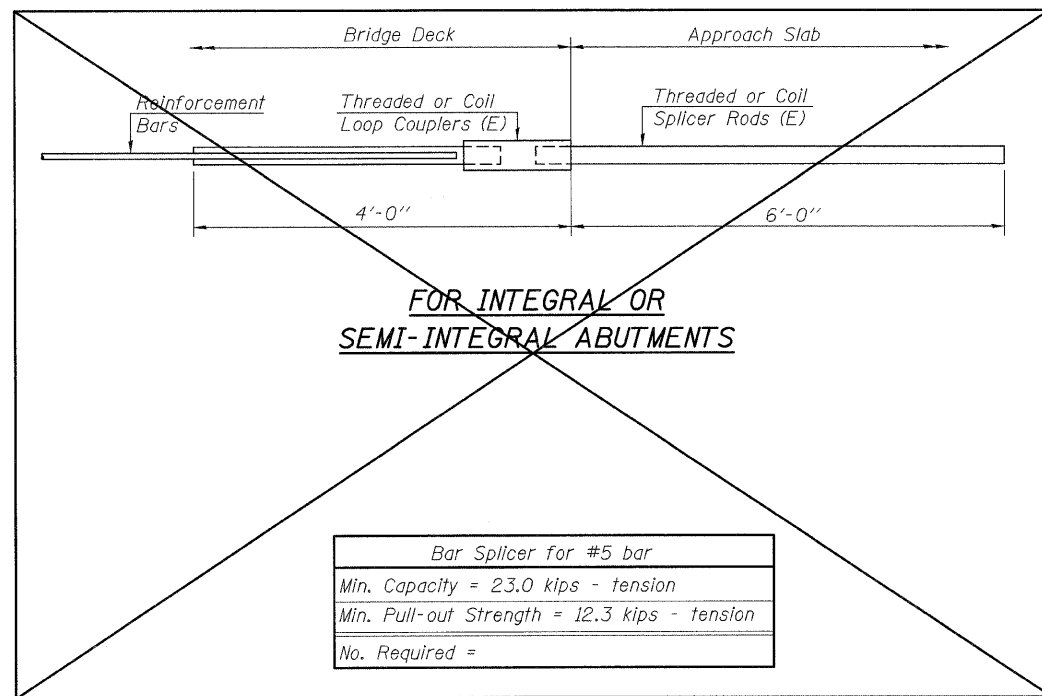
NOTES

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

- ① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$
- ② Minimum *Pull-out Strength (Tension in kips) = $0.66 \times f_y \times A_t$

Where f_y = Yield strength of lapped reinforcement bars in ksi.
 A_t = Tensile stress area of lapped reinforcement bars.
 * = 28 day concrete

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



SHT. S-024

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

BAR SPLICER ASSEMBLY DETAILS

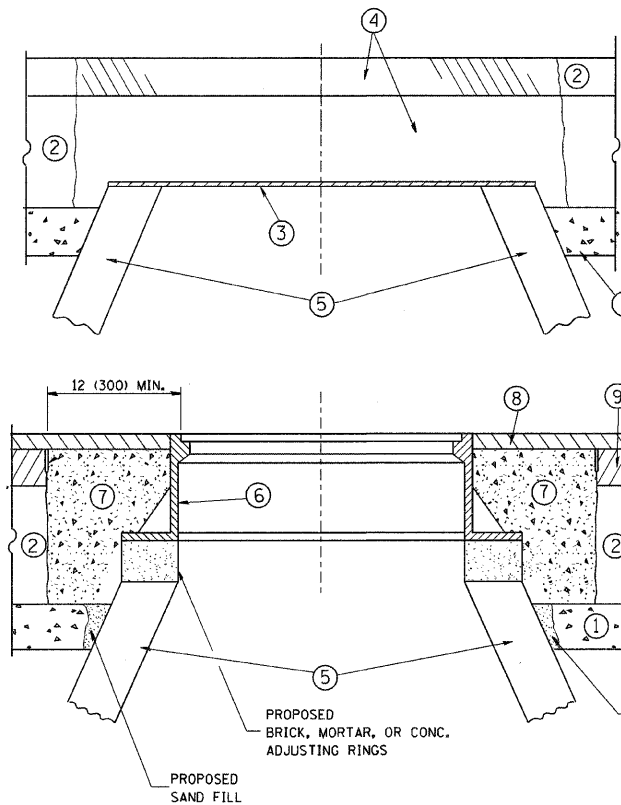
DATE: 01/16/09

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

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

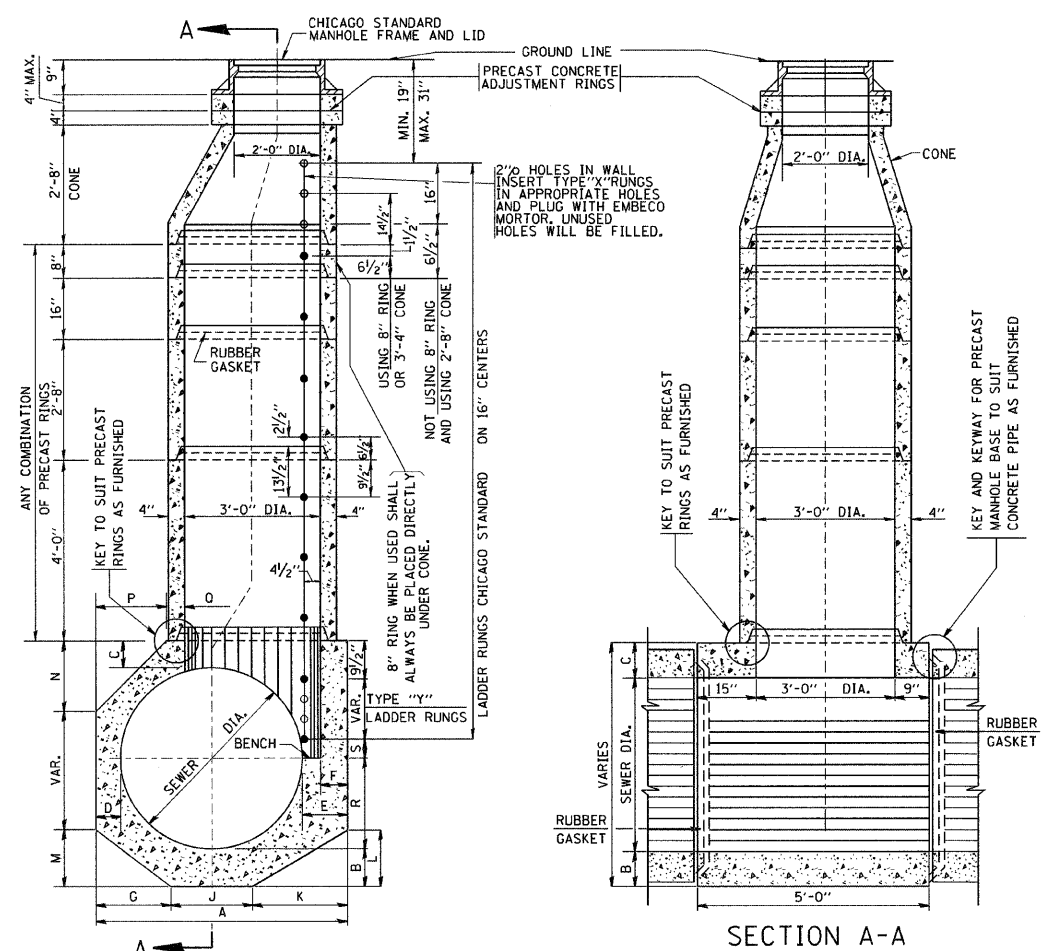
ILLINOIS DEPARTMENT OF TRANSPORTATION
**DETAILS FOR
 FRAMES AND LIDS ADJUSTMENT
 WITH MILLING**

SCALE: VERT. NONE
 HORIZ.

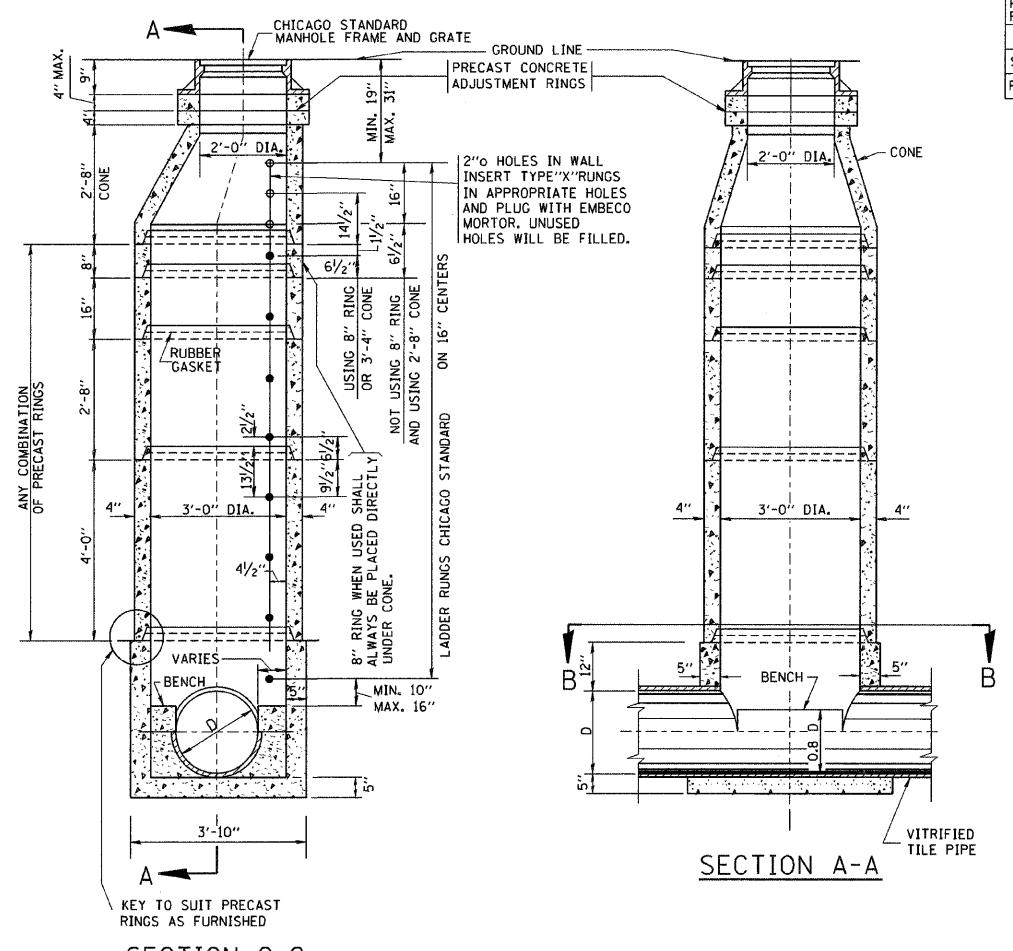
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 CHECKED BY

BD600-03 (BD-8)

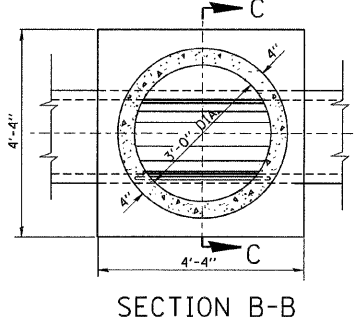
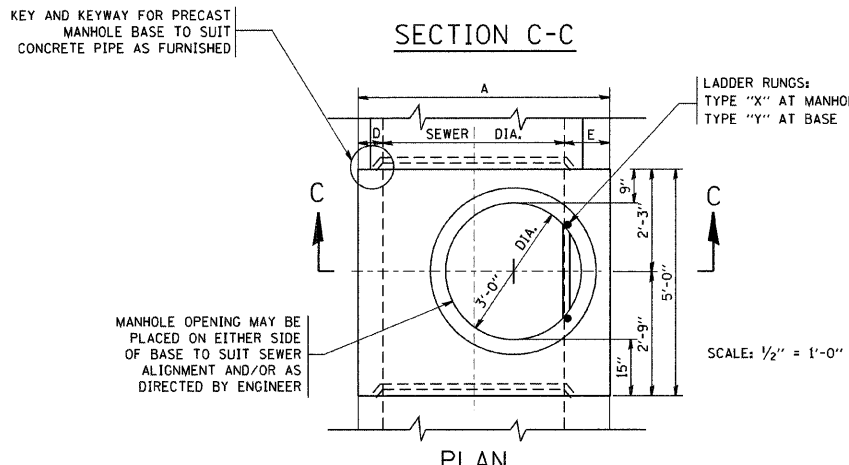
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			101	090
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



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



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



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

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"	1'-8"	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"	1'-9 1/2"	1'-7"	2'-1"	2'-1"	1'-8 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"	1'-8"	1'-5"	2'-3"	2'-3"	1'-3 1/2"	2'-0"	2 1/2"	3
54"	13	6'-2 1/2"	8"	8"	8"	12 1/2"	8"	2'-3 1/2"	2'-3"	2'-4"	1'-7"	1'-4"	2'-1"	2'-1"	1'-9 1/2"	2'-0"	12 1/2"	2
48"	14	5'-6 1/2"	7"	7"	7"	11 1/2"	7"	2'-0 1/2"	2'-1"	2'-1"	1'-5"	1'-2 1/2"	1'-8 1/2"	1'-8 1/2"	5"	2'-0"	5 1/2"	2
42"	15	5'-0 1/2"	7"	7"	7"	11 1/2"	7"	1'-8 1/2"	1'-9"	2'-3"	1'-4"	1'-11"	---	---	1'-7 1/2"	2'-0"	2 1/2"	2
36"	16	4'-4 1/2"	6"	6"	6"	10 1/2"	6"	1'-6"	1'-6"	2'-0 1/2"	1'-2 1/2"	1'-9 1/2"	---	---	1'-10 1/2"	1'-0"	14 1/2"	1
30"	17	4'-0"	6"	6"	6"	12"	6"	1'-4"	1'-4"	2'-0"	1'-2"	1'-8 1/2"	---	---	6"	1'-0"	11 1/2"	1
24"	18	4'-0"	6"	6"	6"	12"	6"	1'-6"	1'-6"	1'-6"	1'-9 1/2"	1'-9 1/2"	---	---	6"	1'-0"	8 1/2"	1

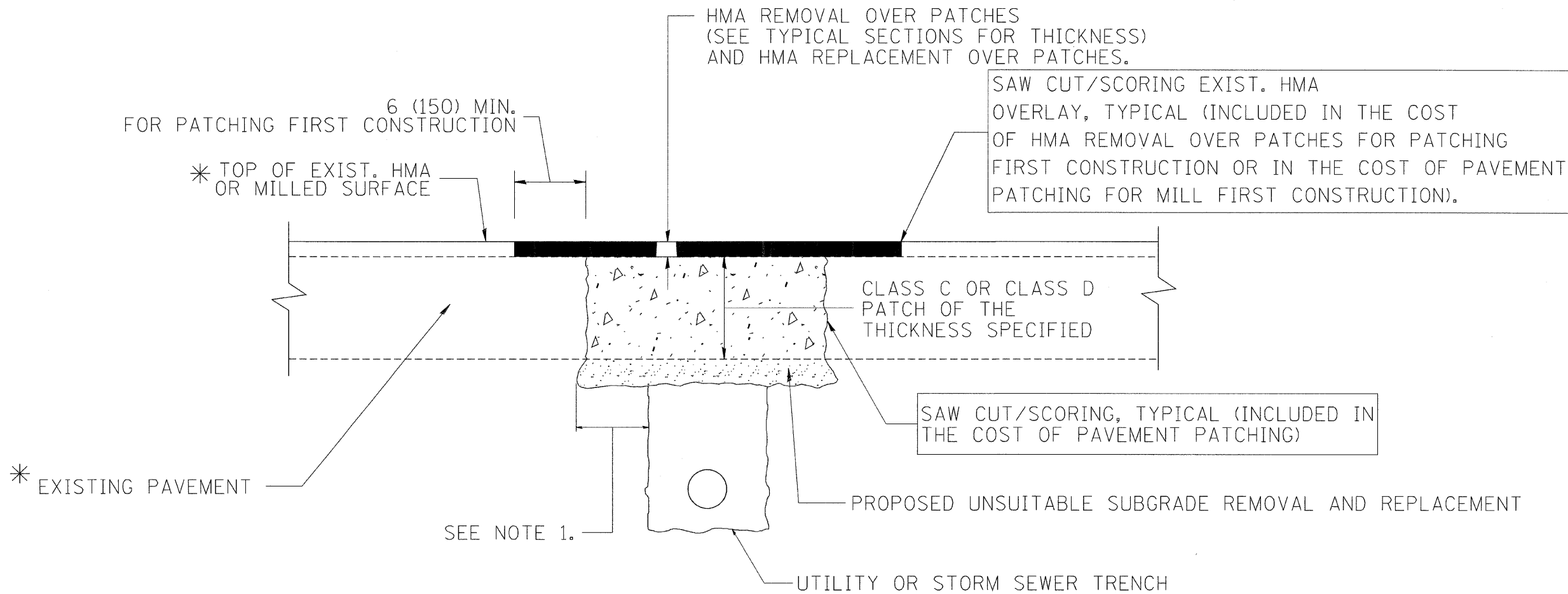
FOR STATE CONTRACT
ALL DIMENSIONS SHOULD
BE PREPARED IN METRIC
UNITS. SOFT CONVERSION
METHOD SHOULD BE USED.

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
**CITY OF CHICAGO
DRAINAGE
DETAILS**
SCALE: VERT. NONE
HORIZ.
DRAWN BY
CHECKED BY
BD600-12 (BD-9)

PLOT DATE = 3/5/2007
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PLOT SCALE = 50,00000 / IN.
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	

VARIABLE - TO MEET EXISTING DIMENSIONS AND FIELD CONDITIONS (SEE NOTE ②)

PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE ②)

SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL PAY ITEM.

SEE STATE STANDARD 606001

18" (450) MAX.

EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE)

1/4" (5) **

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE OR GROUND.

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SALT TOLERANT SOD AND TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE ①).

SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

3" (75) MIN.

PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)

* 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

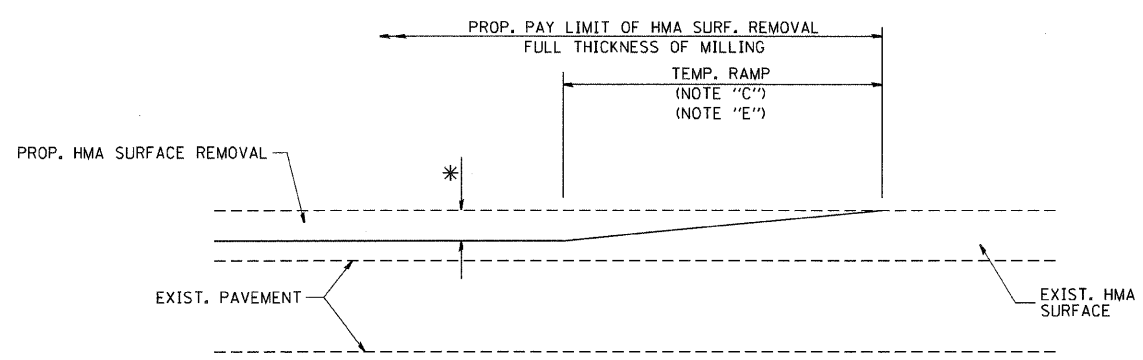
SCALE: VERT. NONE
HORIZ.

DRAWN BY
CHECKED BY

BD600-06 (BD-24)

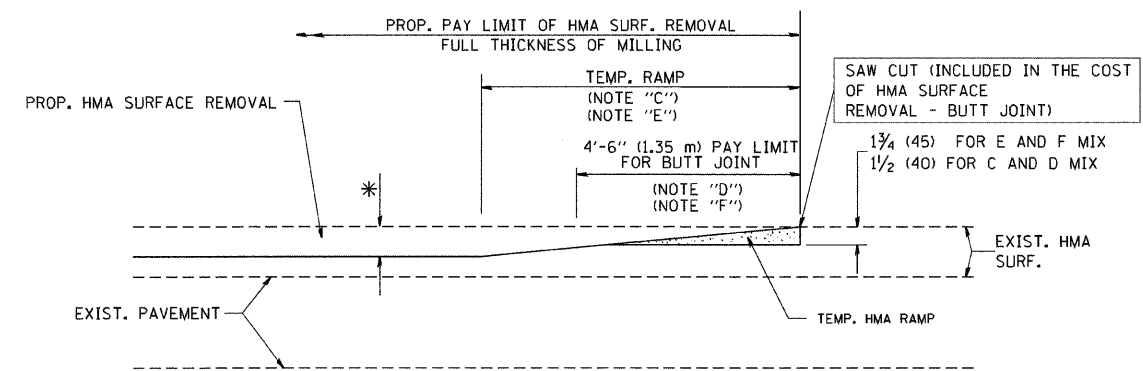
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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



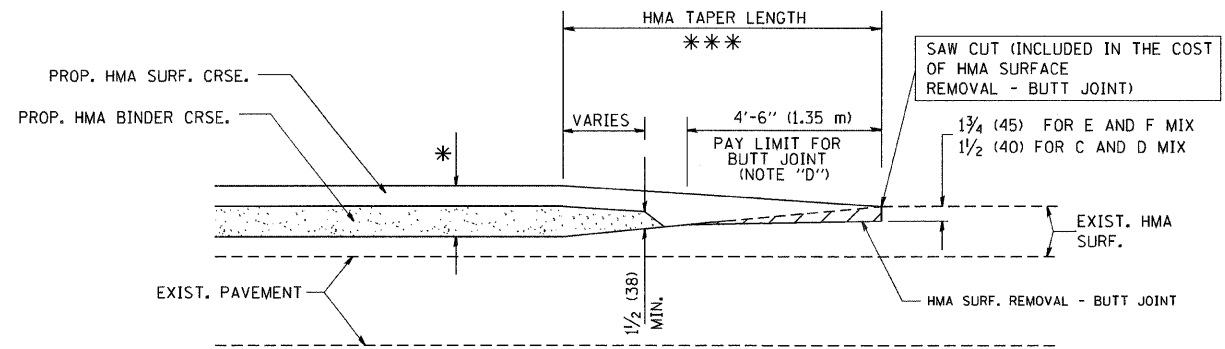
MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1



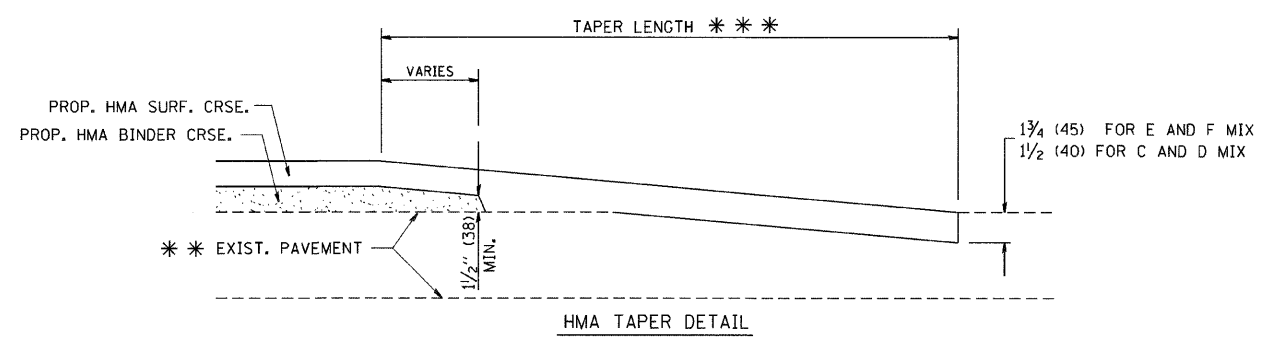
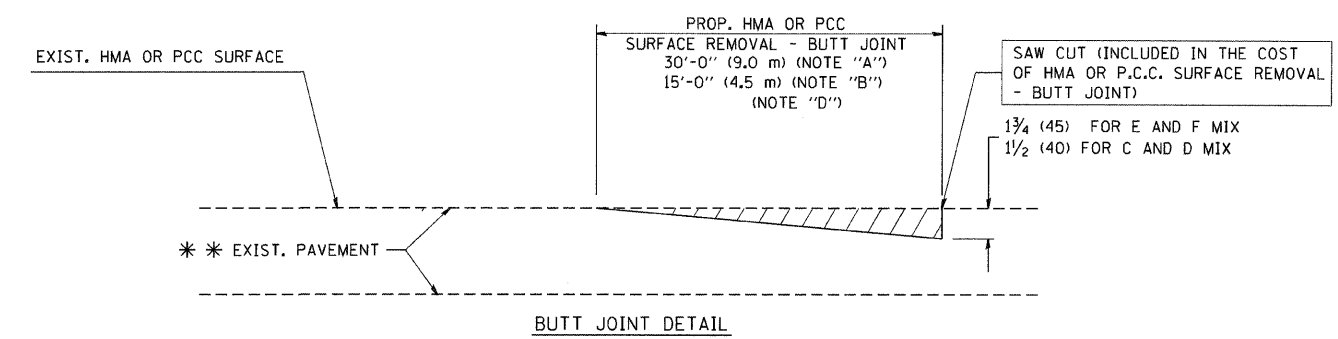
HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2
TYPICAL TEMPORARY RAMP



BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



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

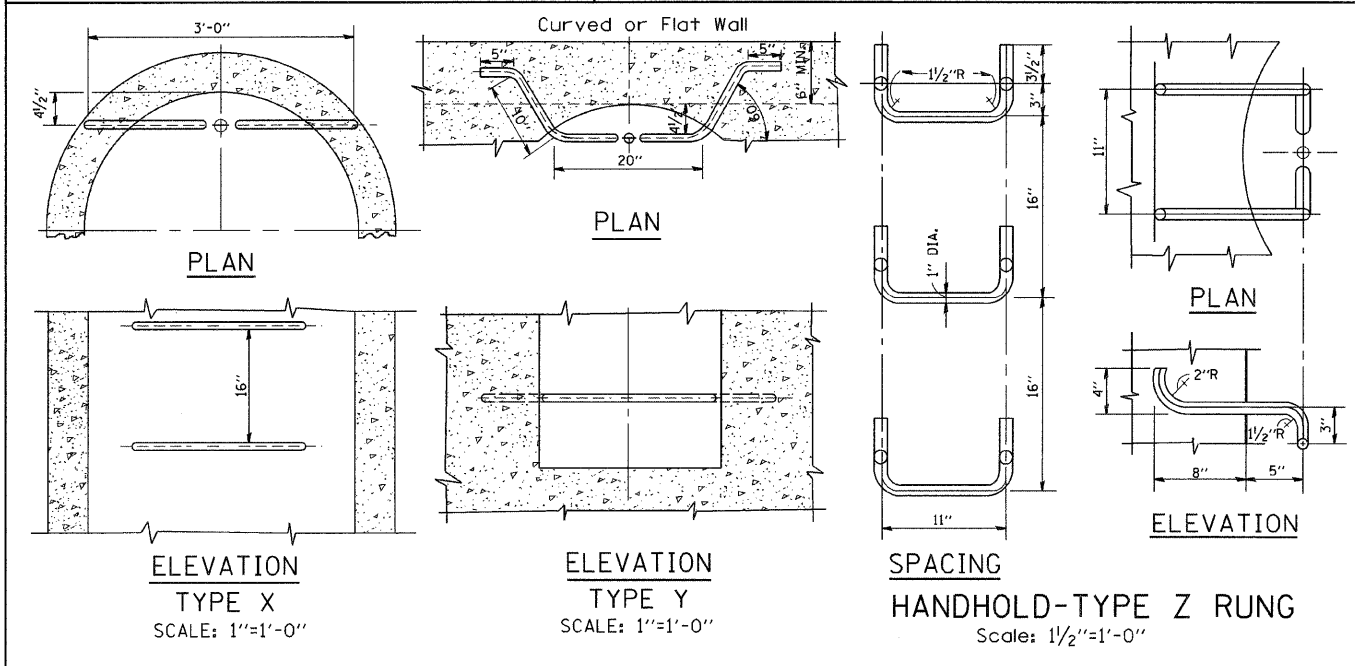
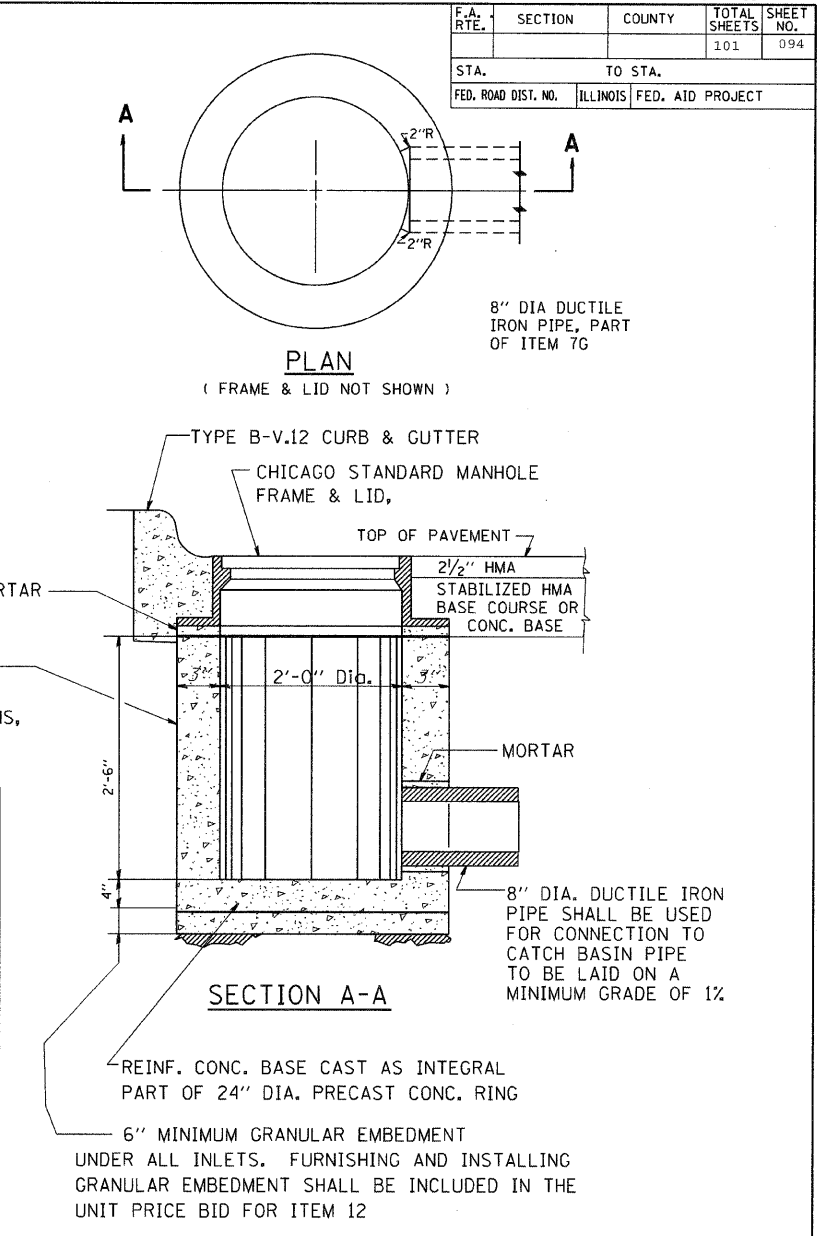
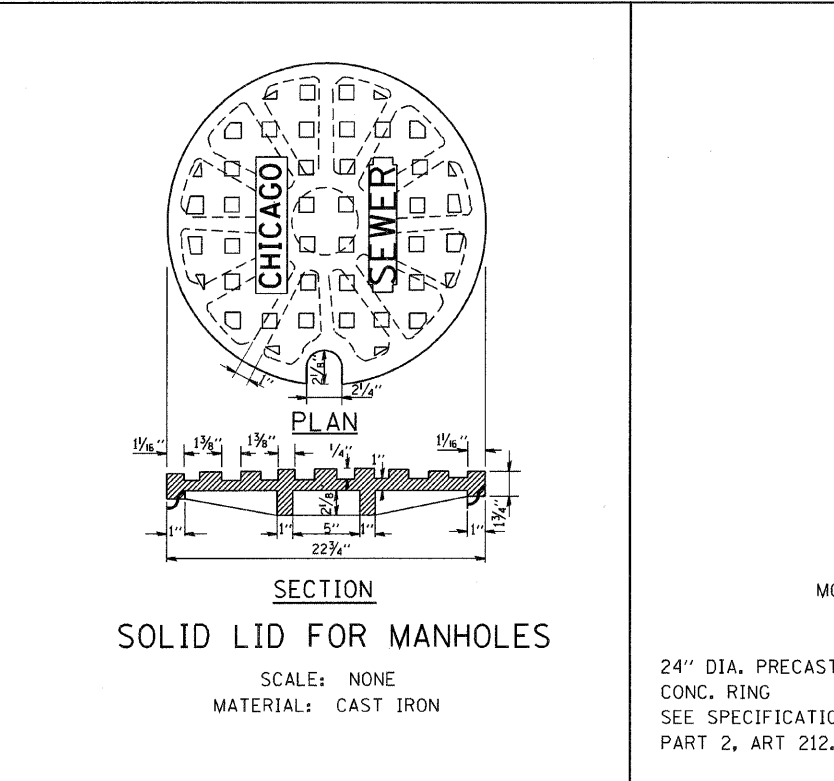
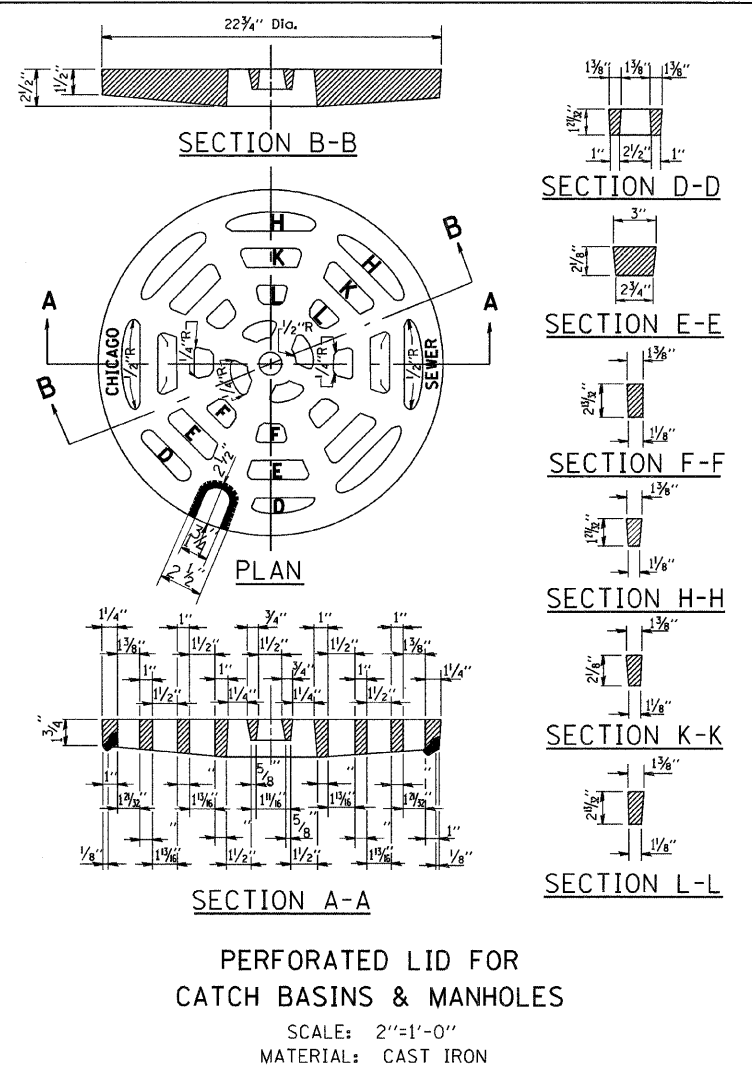
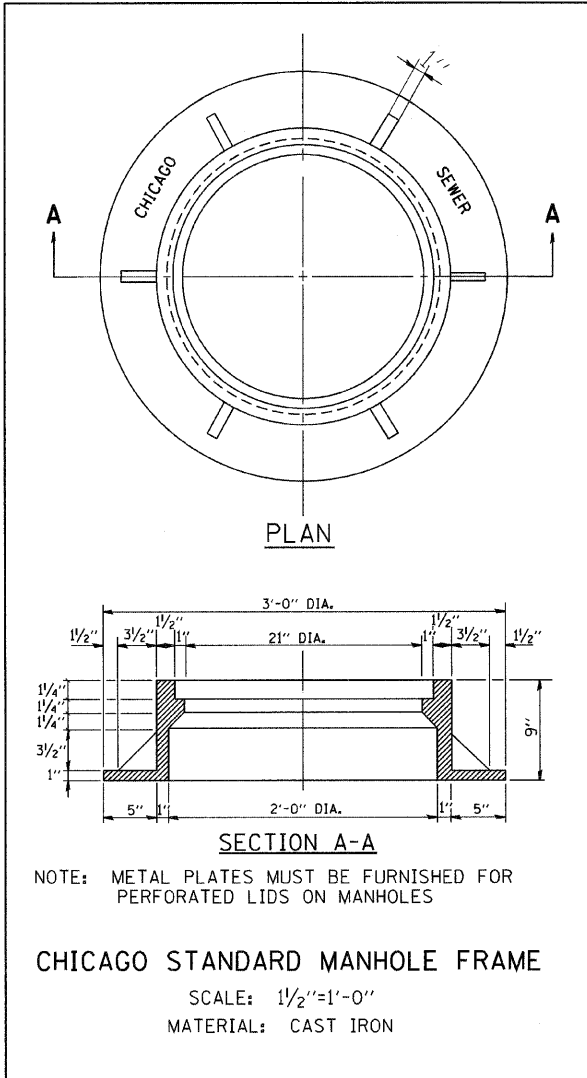
ILLINOIS DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

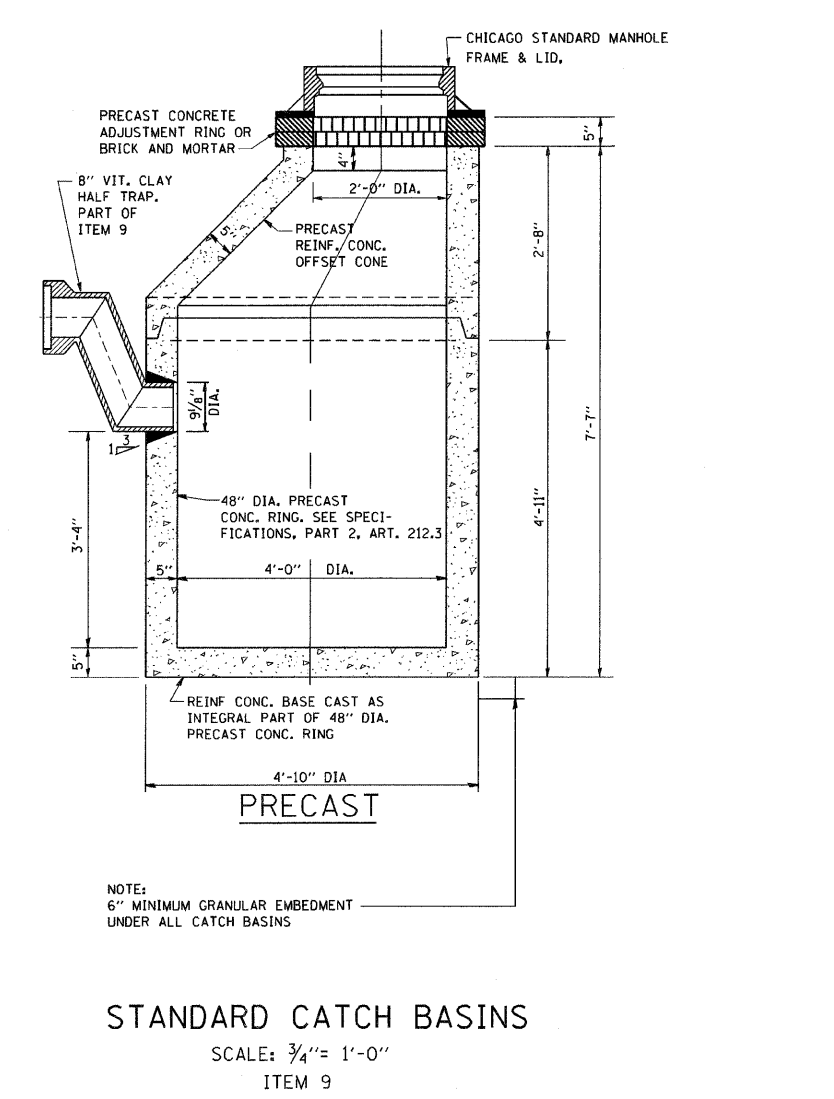
SCALE: VERT. NONE
HORIZ.

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		



ALL LADDER RUNGS SHALL BE ALUMINUM OR GALVANIZED WROUGHT IRON AS SPECIFIED IN THE SPECIFICATIONS, PART 2, ARTICLE 214.2. RUNGS SHALL BE 1" DIAMETER OR OF A SHAPE HAVING AN EQUIVALENT CROSS-SECTIONAL AREA.



CITY OF CHICAGO
DEPARTMENT OF SEWERS
ENGINEERING DIVISION

ILLINOIS DEPARTMENT OF TRANSPORTATION

CITY OF CHICAGO
CATCH BASIN, INLET AND
MANHOLE DETAILS

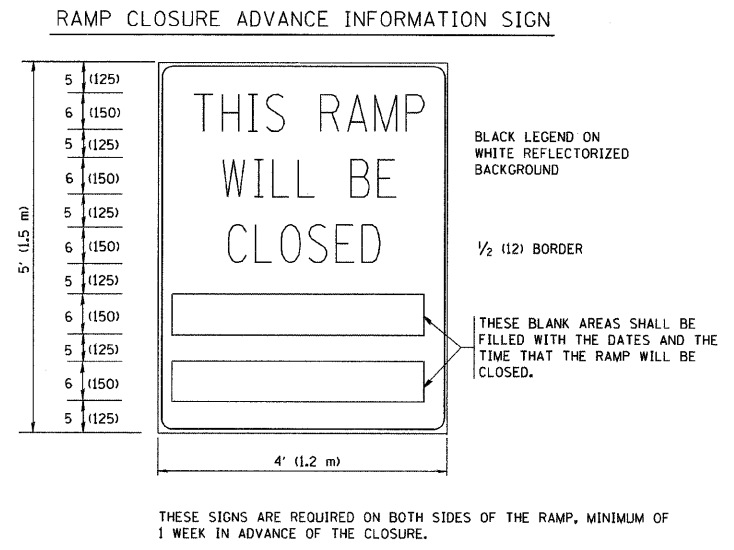
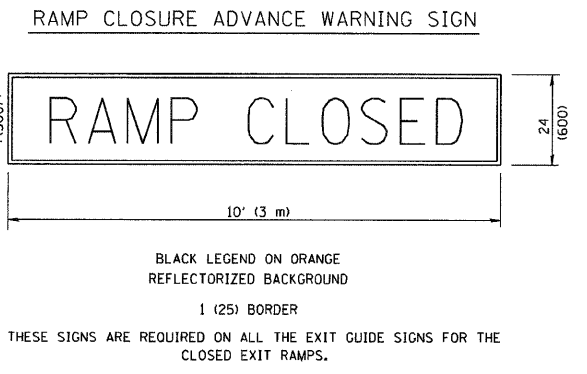
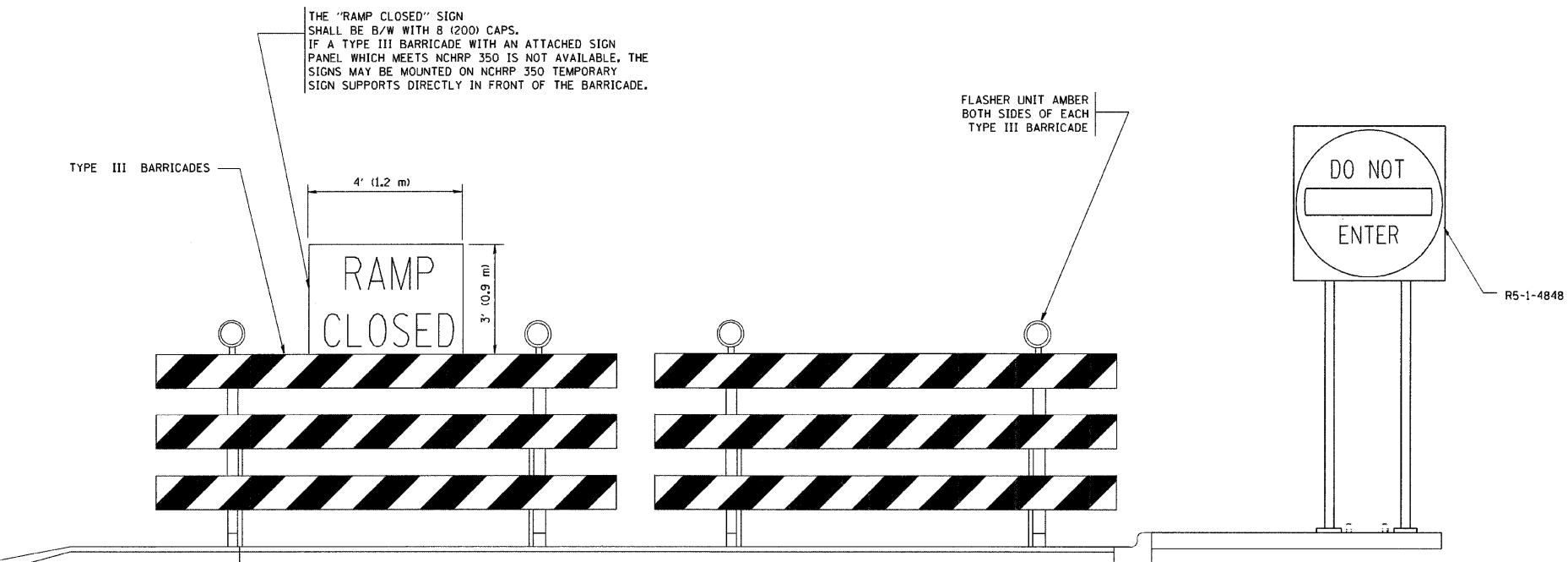
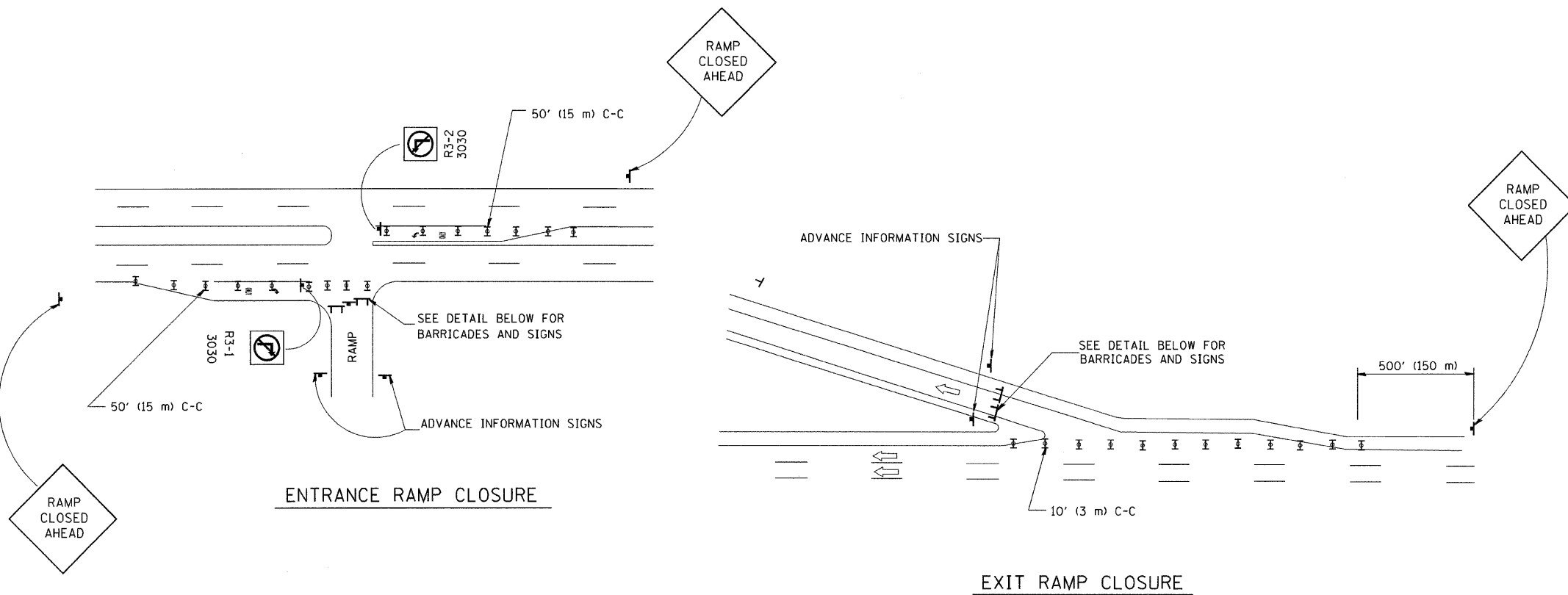
SCALE: VERT. NONE
HORIZ.

DRAWN BY
CHECKED BY

REVISIONS	
NAME	DATE
M. GOMEZ	01/25/01

PLOT DATE = 3/5/2007
FILE NAME = K:\projects\0447.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		



- 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.

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

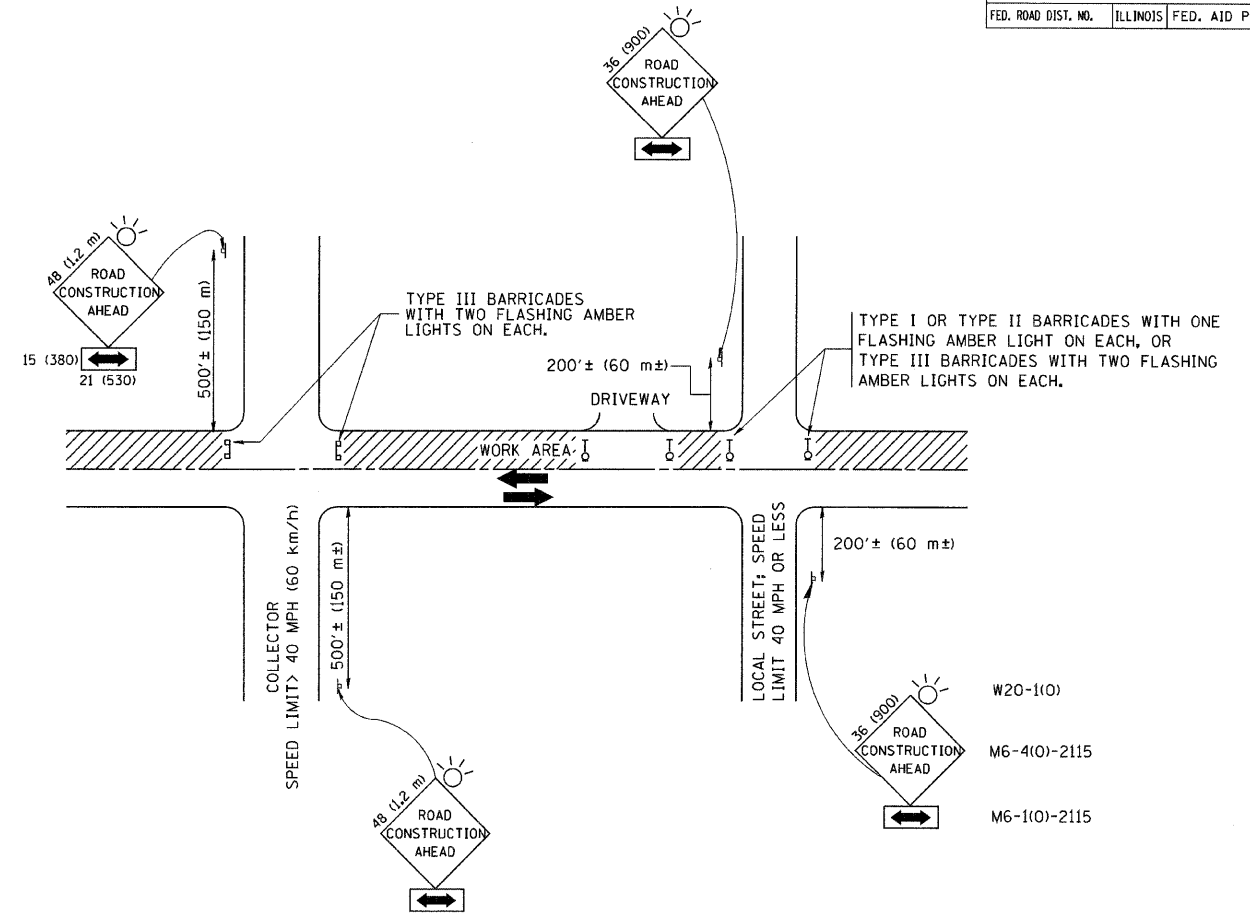
DRAWN BY

CHECKED BY

TC-8

PLOT DATE = 3/6/2007
 FILE NAME = K:\stss\stss\tr06.dgn
 PLOT SCALE = 50.000' / IN.
 USER NAME = bauer-dl

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

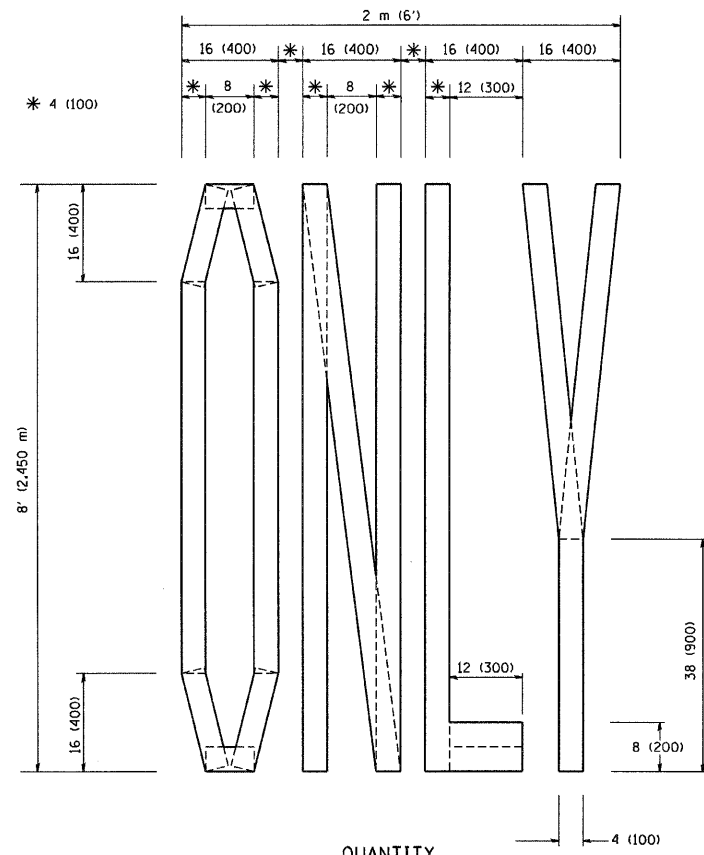
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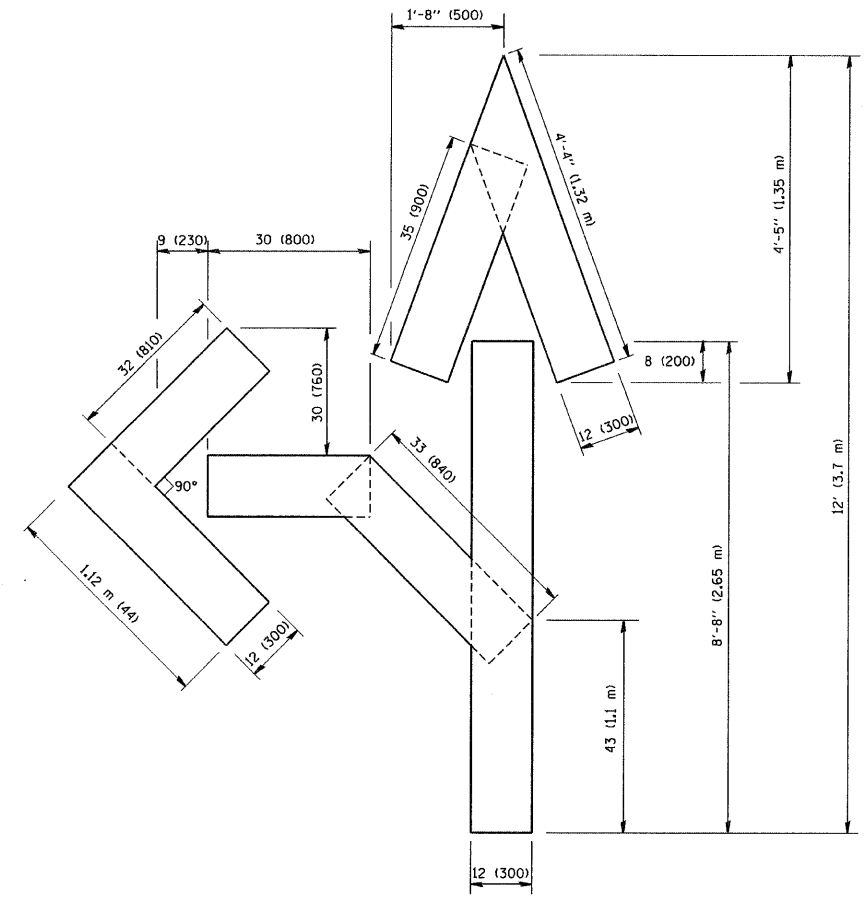
CHECKED BY

TC-10

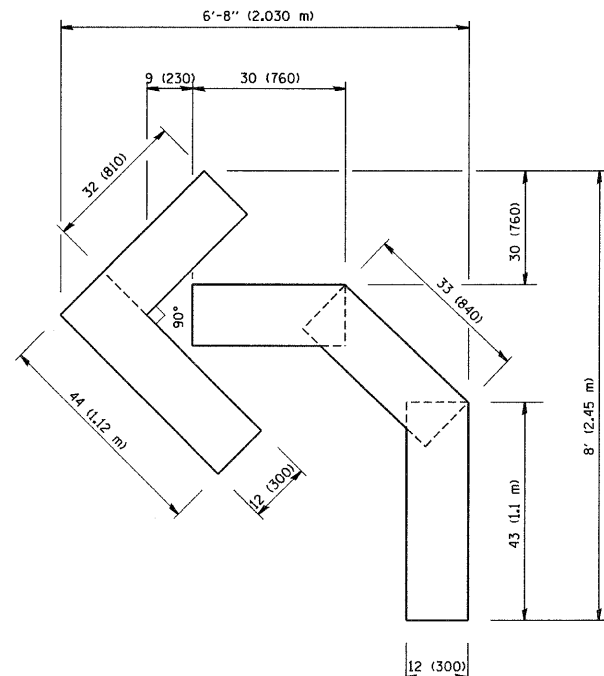
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			101	097
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



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.

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

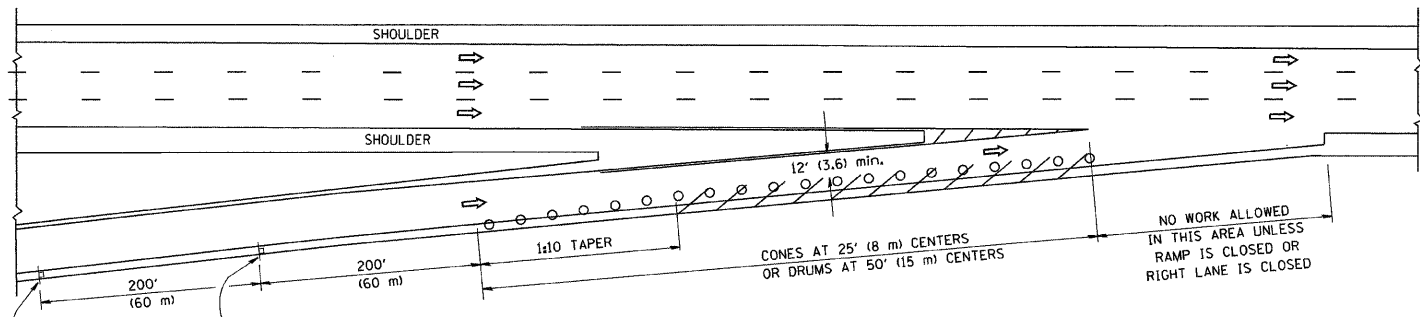
CHECKED BY

TC-16

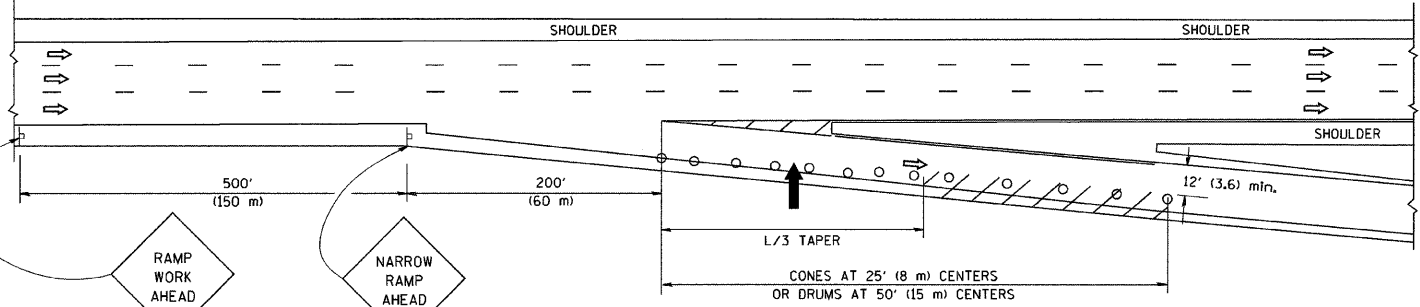
PARTIAL RAMP CLOSURE DETAILS

SHOULDER CLOSURE DETAILS

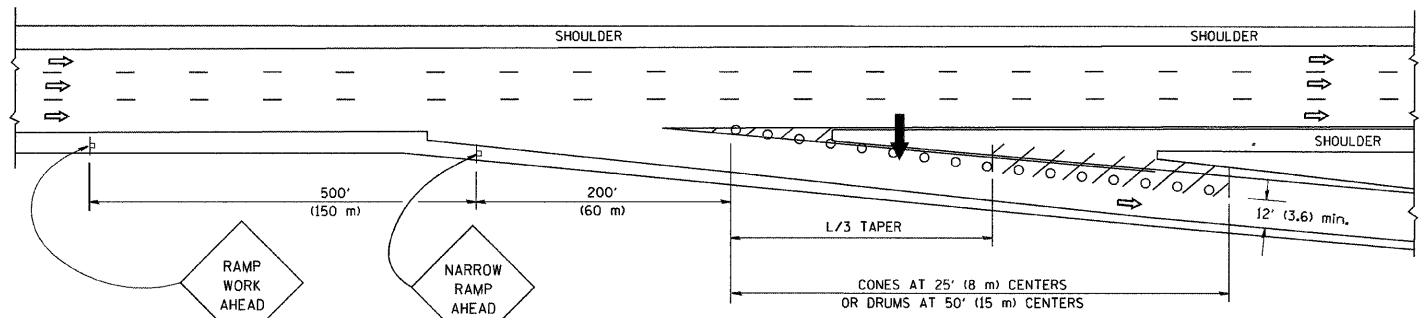
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			101	098
STA. TO STA.		ILLINOIS FED. AID PROJECT		



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

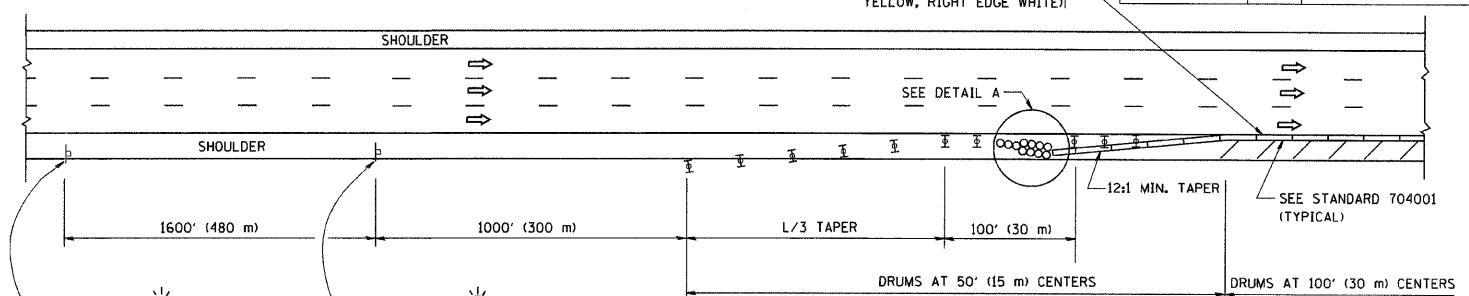
SYMBOLS

- 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

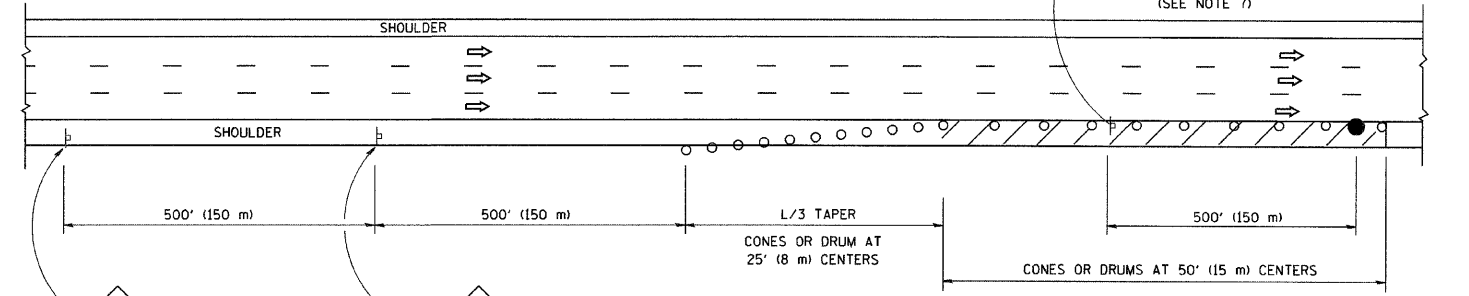
GENERAL NOTES

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.

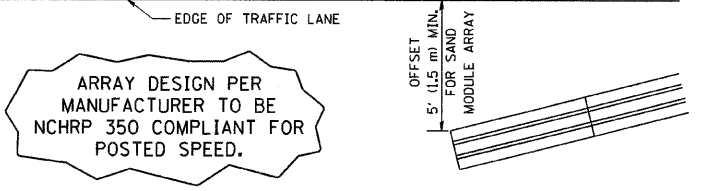


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:
 1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCRUCH 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)

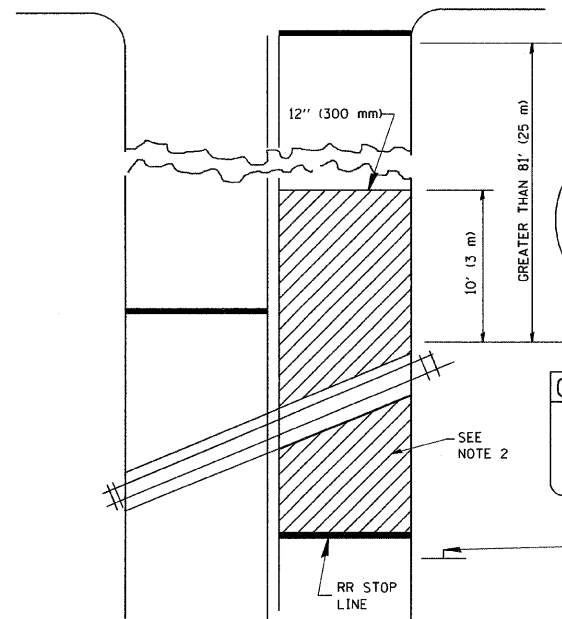
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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

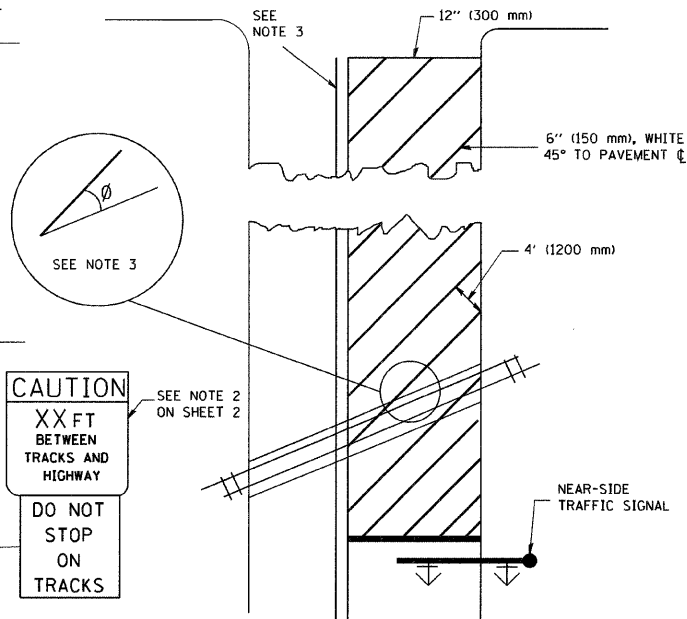
ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES PARTIAL RAMP CLOSURES
 DESIGNED BY: DWS
 DRAWN BY:
 CHECKED BY:
 SCALE: NONE
 TC-17

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

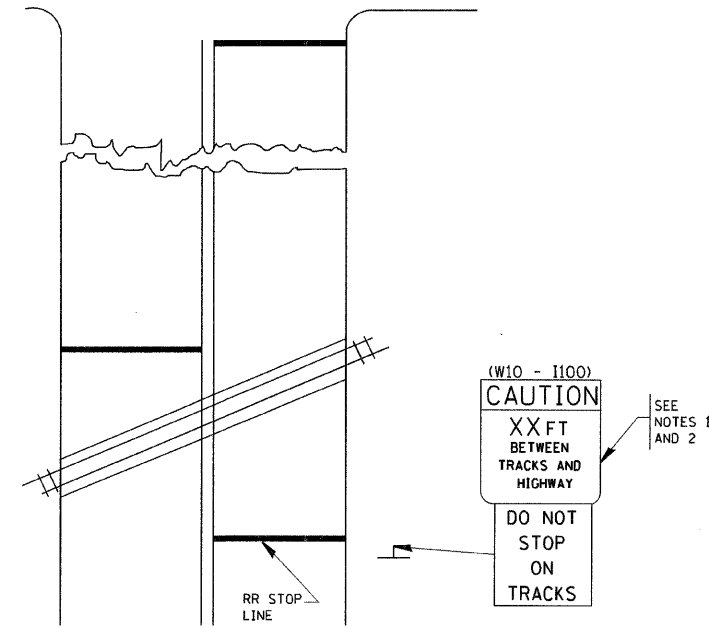


WITH NEAR-SIDE TRAFFIC SIGNALS



WITH NONSIGNALIZED INTERSECTION

81' (25 m) OR LESS TO CLOSEST RAIL



NOTES:

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

NOTE:

1. 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.
2. 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.

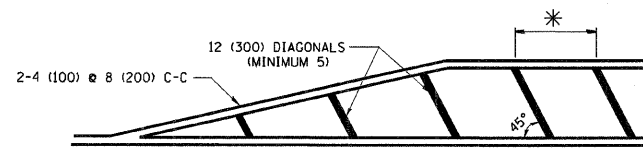
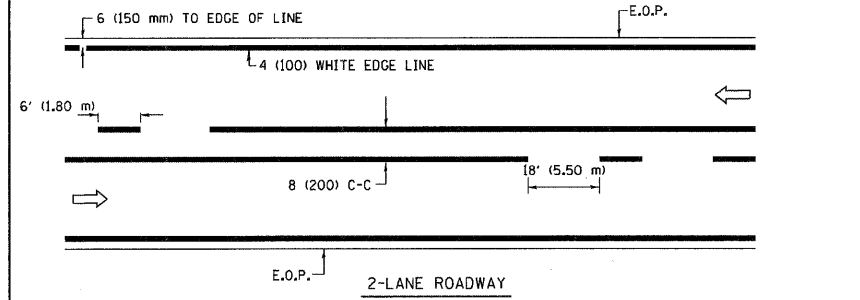
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

REVISIONS	
NAME	DATE
	01/01/07

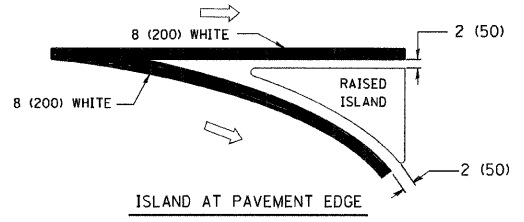
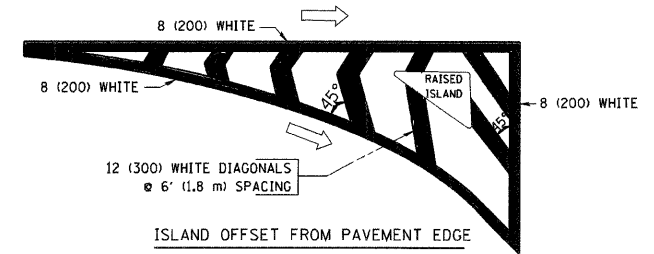
ILLINOIS DEPARTMENT OF TRANSPORTATION
TYPICAL SUPPLEMENTAL
SIGNING AND PAVEMENT MARKING
TREATMENT FOR RAILROAD CROSSINGS

SCALE: NONE
DRAWN BY
CHECKED BY
TC23

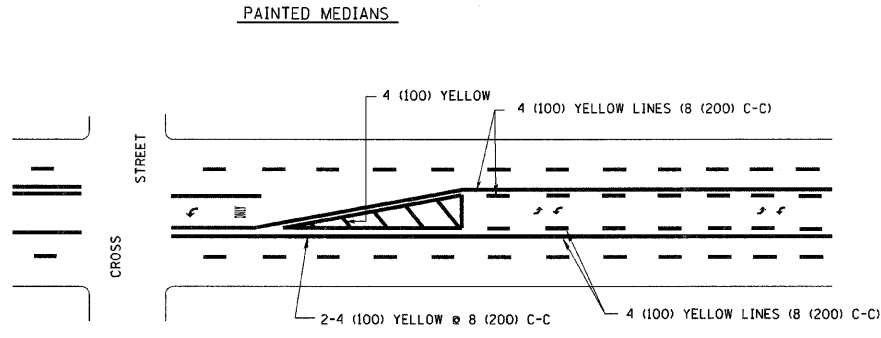
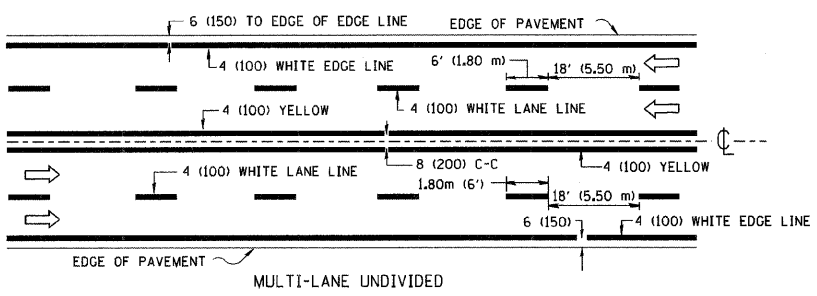
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			101	100
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



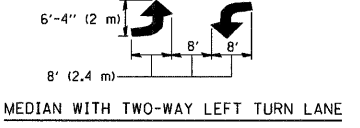
* FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.
 * DIAGONAL LINE SPACING: 20' (6.1 m) C-C



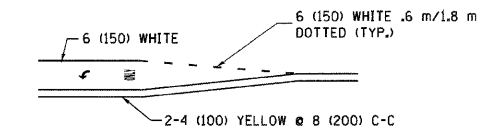
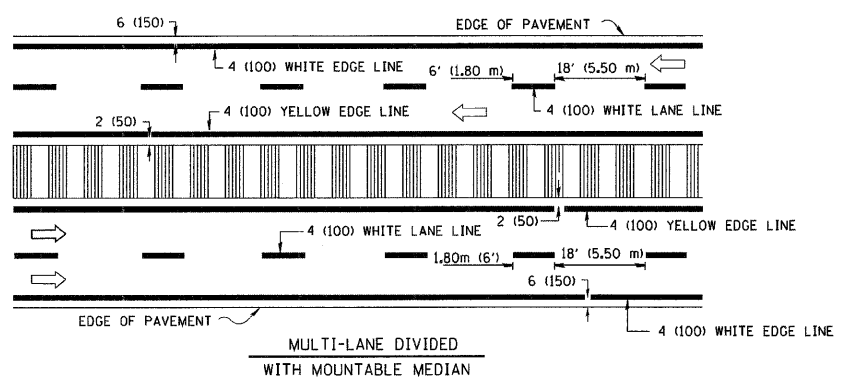
TYPICAL ISLAND MARKING



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.

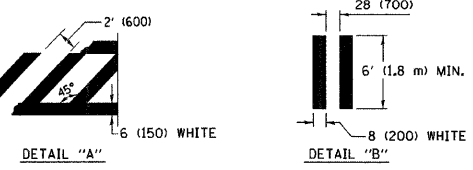
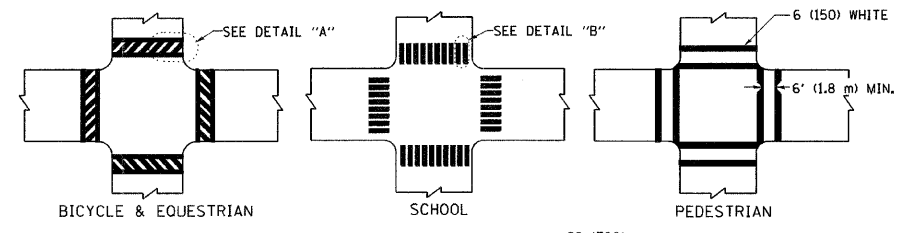


TYPICAL PAINTED MEDIAN MARKING

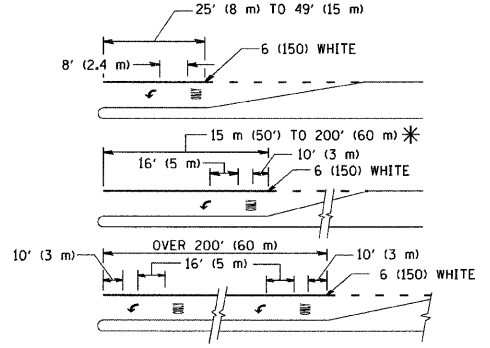


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK 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

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" IS 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 ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)

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

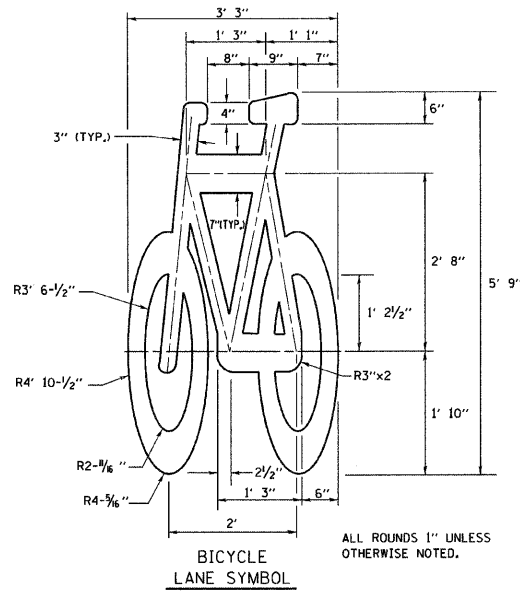
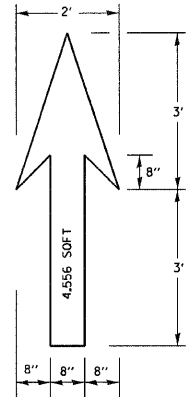
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

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

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

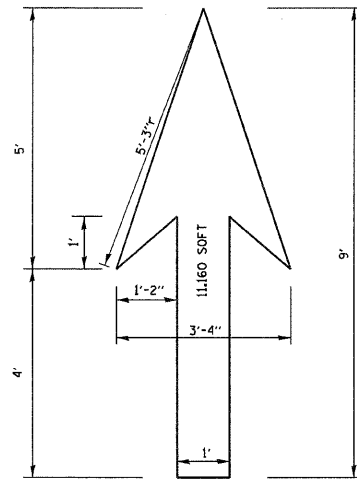


NOTE:

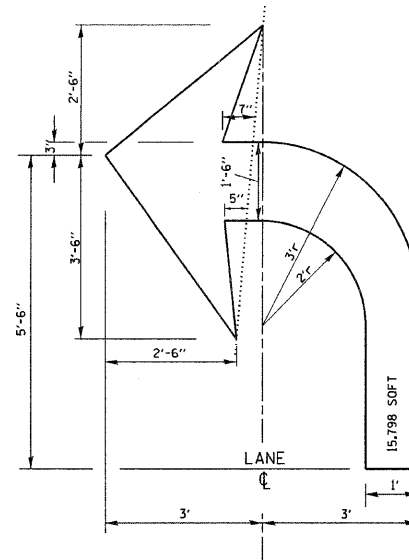
- FOR BIKE LANE SYMBOLS ONLY, USE PRE-FORMED THERMOPLASTIC WITH A MINIMUM THICKNESS OF 90 MILS, MINIMUM SKID RESISTANCE VALUE OF 60 BPN, & A MINIMUM INDEX OF REFRACTION OF 1.50.
- THE RESIDENT ENGINEER SHALL CONTACT MR. BEN GOMBERG AT 312-744-8093 AT LEAST ONE CALENDAR WEEK PRIOR TO INSTALLING BIKE LANE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

TYPICAL BIKE LANE SYMBOLS
DRAWING #28

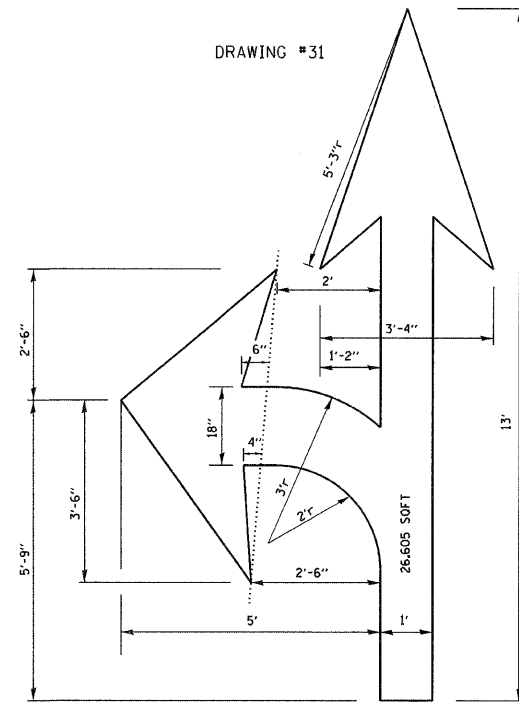
DRAWING #29



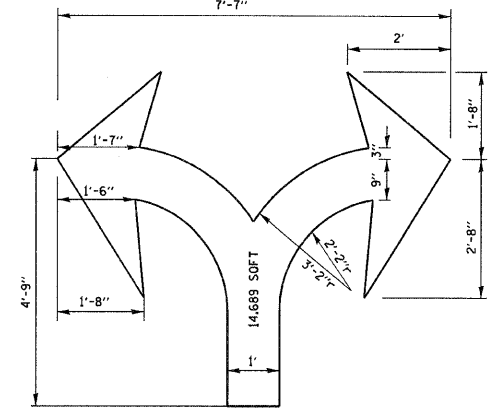
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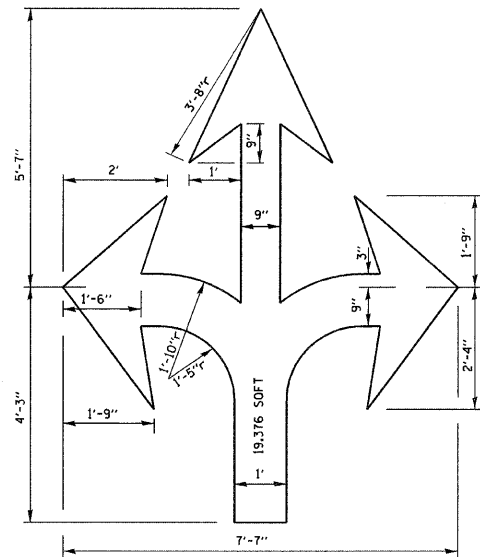
DRAWING #31



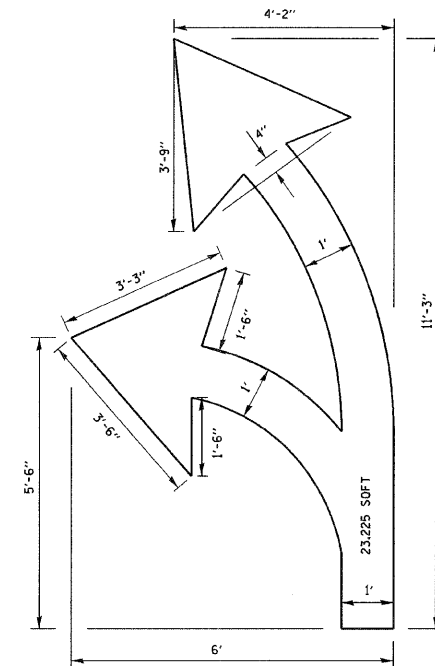
DRAWING #32



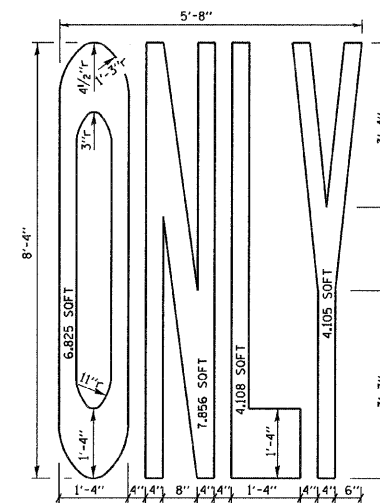
DRAWING #33



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