06-13-14 LETTING ITEM 014

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
094	1920-B	COOK	*142	1
	ILLINOIS	CONTRACT NO. 60J15		

*142 41 = 143

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

FAI 94 I-90/94 (DAN RYAN EXPRESSWAY)
AT 63rd STREET (FAU 1519)
SECTION 1920-B
PROJECT: ACNHPP-0005(990)
BRIDGE SUPERSTRUCTURE REPLACEMENT
SN 016-1149
COOK COUNTY
C-91-190-10

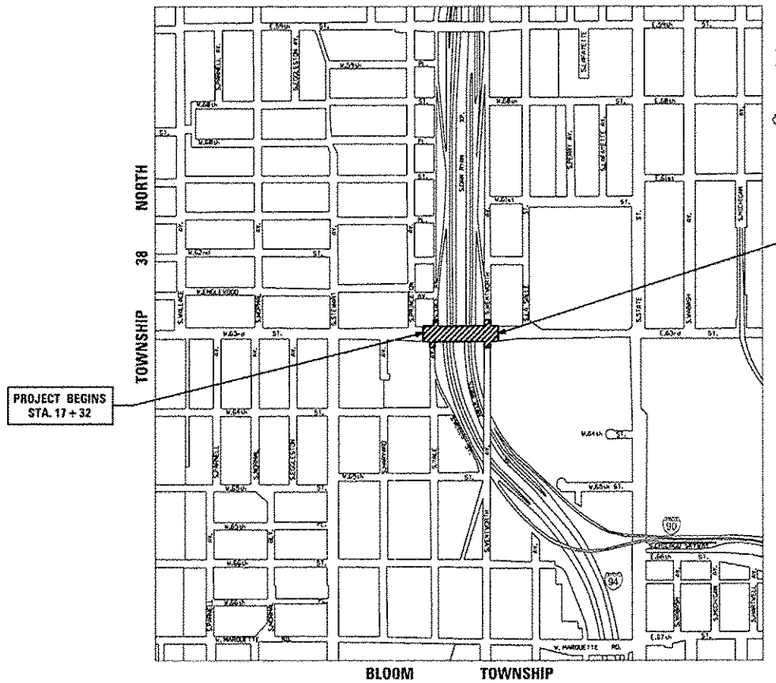
FOR INDEX OF SHEETS, SEE SHEET NO. 2

TRAFFIC DATA

63RD STREET:
EXISTING ADT = 10,600 (2011)
SPEED LIMIT = 30 MPH
DESIGN SPEED = 30 MPH

THE IMPROVEMENT IS LOCATED WITHIN THE CITY OF CHICAGO

RANGE 14 EAST OF THE 3rd PRINCIPAL MERIDIAN



63RD STREET OVER FAI 90/94

STRUCTURE NO. 016-1149
REMOVE EXISTING 5 SPAN PPC DECK BEAM SUPERSTRUCTURE. REPAIR OR REPLACE PORTIONS OF THE SUBSTRUCTURE. REPLACE SUPERSTRUCTURE WITH A CONTINUOUS COMPOSITE STEEL BEAM SUPERSTRUCTURE.

GROSS LENGTH = 721 FT. = 0.14 MILE
NET LENGTH = 721 FT. = 0.14 MILE

D-91-190-10

LOCATION OF SECTION INDICATED THUS: -■-

PROFESSIONAL ENGINEER'S SIGN & SEAL

EXPIRES: 11-30-2015

THOMAS W. STEPHENS
062-046898
REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED May 31 20 14

DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 9 20 14

John D. Baranzelli, PE, for acting ENGINEER OF DESIGN AND ENVIRONMENT

May 9 20 14

Omer Osman, PE, for DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

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

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

C.U.A.N.
CHICAGO UTILITY ALERT NETWORK
1-312-744-7000
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: CRAIG BAUER 847-705-4265
PROJECT MANAGER: LONG TRAN 847-705-4232

CONTRACT NO. 60J15

GRÄEF
8501 W. Higgins Road; Suite 280
Chicago, Illinois 60631
(773) 399-0112

INDEX OF SHEETS

HIGHWAY STANDARDS

STD. NO.	TITLE
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSYTEMS
420001-07	PAVEMENT JOINTS
420111-03	PCC PAVEMENT ROUNDOUTS
420401-10	BRIDGE APPORACH PAVEMENT CONNECTOR
420701-02	PAVEMENT FABRIC
515001-03	NAME PLATE FOR BRIDGES
642001-02	SHOULDER RUMBLE STRIPS, 16 IN.
701400-07	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-08	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-08	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS >= 45 MPH
701427-02	URBAN LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS <= 40 MPH
701446-05	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701602-07	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-09	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-05	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-03	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES

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GRAEF 8501 W. Higgins Road Suite 280 Chicago, Illinois 60631 (773) 399-0112

USER NAME = USER.	DESIGNED - JSO	REVISED -
	DRAWN - HJM	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - TNS	REVISED -
PLOT DATE = 5/6/2014	DATE - 03-15-2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

63rd STREET BRIDGE REPLACEMENT – COOK COUNTY
INDEX OF SHEETS AND HIGHWAY STANDARDS

SCALE: 1"=50' | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	2
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR AND ALL OTHER PARTIES INVOLVED IN THE CONSTRUCTION OPERATIONS WITHIN THE PROJECT LIMITS SHALL CALL CUAN (CHICAGO UTILITY ALERT NETWORK) AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, GAS AND OTHER EXISTING FACILITIES. (72 HOUR NOTIFICATION IS REQUIRED). THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS AS PROVIDED FOR IN THE STANDARD SPECIFICATIONS.

2. 10 FOOT TRANSITIONS SHALL BE USED TO MATCH THE PROPOSED CURB & GUTTER TO THE EXISTING, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.

3. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF CHICAGO.

4. ALL ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL OF DATUM OF 1988 (NAVD 88).

5. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPOERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

6. THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO BEGINNING WORK.

7. THE RESIDENT ENGINEER SHALL CONTACT THE AREA TRAFFIC FIELD ENGINEER AT (847) 705-4153 AT LEAST TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

8. ALL 63RD ST., WELLS ST., YALE AV. AND WENTWORTH AV. PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE PROJECT ACCORDING TO CITY OF CHICAGO TYPICAL PAVEMENT MARKINGS AND SHALL MATCH EXISTING PAVEMENT MARKINGS AT PROJECT LIMITS. 190/194 PAVEMENT MARKINGS SHALL CONFORM TO IDOT DISTRICT ONE STANDARDS AND SHALL MATCH THE EXISTING MARKINGS AND LOCATIONS DISTURBED DURING CONSTRUCTION.

9. 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.

10. DURING CONSTRUCTION, AGGREGATE FOR TEMPORARY ACCESS WILL ALSO BE USED TO PROVIDE TEMPORARY RAMPS AT INTERSECTIONS, BUILDING ENTRANCES, AND AS DETERMINED BY THE ENGINEER FOR PEDESTRIAN MOVEMENT.

11. TEMPORARY PAVEMENT MARKING (PAINT) SHALL BE REQUIRED ON ALL TEMPORARY PAVEMENT SURFACES OVER THE WINTER MONTHS. PAINT USED OVER THE WINTER MONTHS IN THE TRANSITION AREAS ON EXISTING SURFACES SHALL BE REMOVED BY GRINDING WHEN THE FINAL PAVEMENT MARKINGS ARE INSTALLED. ON EXPRESSWAYS, EPOXY MARKINGS SHALL BE REQUIRED ON ALL TEMPORARY PAVEMENT SURFACES OVER THE WINTER MONTHS. EPOXY USED OVER THE WINTER IN TRANSITION AREAS AT THE LIMITS OF CONSTRUCTION ON EXISTING SURFACES SHALL BE REMOVED BY GRINDING WHEN FINAL PAVEMENT MARKINGS ARE INSTALLED.

12. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE OF THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

13. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER AS SHOWN ON THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

14. ALL DAMAGE TO DEPARTMENT OWNED UNDERGROUND FACILITIES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTOR'S EXPENSE. THIS SHALL INCLUDE ALL TEMPORARY REPAIRS REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMANENT REPAIRS. SPLICING OF ELECTRICAL CALBE SHALL NOT BE ALLOWED. ELECTRICAL CALBE SHALL BE REPLACED FROM POLE TO POLE OR CONTROLLER.

15. THE WORK REQUIRED TO CONNECT ANY SEWER TO AN EXISTING DRAINAGE STRUCTURE OR PIPE WILL NOT BE PAID FOR SEPARATELY. BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE BID FOR THE SEWER ITEMS.

16. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

17. FOR WORK OUTSIDE THE LIMITS OF THE BRIDGE APPROACH SLAB, ALL REFERENCES IN THE HIGHWAY STANDARDS AND STANDARD SPECIFICATIONS FOR REINFORCEMENT, DOWEL BARS AND TIE BARS IN PAVEMENT, SHOULDERS, CURB, GUTTER, COMBINATION CURB AND GUTTER, MEDIAN AND CHAIR SUPPORTS FOR CRC PAVEMENT SHALL BE EPOXY COATED, UNLESS NOTED ON THE PLANS.

18. WHEN TEMPORARY CONCRETE BARRIER WALL IS USED ON THE CONTRACT, A 3.5 FOOT CLEAR DEFLECTION ZONE SHALL BE PROVIDED FOR FROM THE BACK OF THE BARRIER WALL TO ANY OBSTRUCTION OR DROP OFF. IF THIS 3.5 FOOT CLEAR ZONE CANNOT BE MAINTAINED, THE TEMPORARY CONCRETE BARRIER WALL SHALL BE ANCHORED TO THE PAVEMENT THRU THE 3 ANCHORING HOLES ON THE TRAFFIC SIDE OF THE WALL. PAYMENT FOR THE ANCHORING SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE TEMPORARY CONCRETE BARRIER WALL PAY ITEMS.

GENERAL NOTES - CITY OF CHICAGO

1. ANY REFERENCE TO "STANDARD SPECIFICATIONS" THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (SSRBC) AND THE IDOT SUPPLEMENTAL SPECIFICATIONS, ADOPTED JANUARY 1, 2012 (OR LATEST EDITION).

2. ALL ADA RAMP CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST VERSION OF THE "CHICAGO DEPARTMENT OF TRANSPORTATION ADA CONSTRUCTION STANDARDS" AVAILABLE ON THE CITY'S INTERNET WEBSITE.

3. ALL DIMENSIONS SHOWN ON THE PLANS ARE TO THE EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED.

4. THE INFORMATION SHOWN ON THIS PLAN SET CONCERNING THE TYPE AND LOCATION OF PRIVATE AND PUBLIC UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN INVESTIGATION TO DETERMINE THE EXISTENCE, NATURE AND EXACT LOCATION OF ALL UNDERGROUND UTILITIES AND APPURTENANCES WITHIN THE LIMITS OF THE IMPROVEMENT. THE COST OF THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

5. THE CONTRACTOR MUST PROTECT EXISTING AND NEW UTILITIES WHEN CONSIDERED NECESSARY BY THE COMMISSIONER, BY METHODS APPROVED BY THE COMMISSIONER, AND HE MUST BRACE AND SUPPORT THE UTILITIES PROPERLY TO PREVENT SETTLEMENT, DISPLACEMENT OR CHANGE TO THE UTILITIES. THE PROTECTION OF THE UTILITIES AS SPECIFIED HEREIN WILL NOT BE PAID FOR SEPARATELY, BUT THE COST THEREOF SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND UTILITIES AND THEIR APPURTENANCES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING THE CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. ONLY PERSONNEL AUTHORIZED BY THE COMMISSIONER SHALL PERFORM THIS WORK.

7. THE CONTRACTOR SHALL MAINTAIN THE SURFACE DRAINAGE OF THE ROAD DURING CONSTRUCTION OF THIS PROJECT.

8. AGGREGATE FURNISHED AND PLACED UNDER THE ITEM AGGREGATE FOR TEMPORARY ACCESS SHALL, AS FAR AS POSSIBLE, BE RE-USED AT LOCATIONS AS DIRECTED BY THE COMMISSIONER.

9. UTILITY ADJUSTMENT AND RELOCATION SHALL BE THE RESPONSIBILITY OF THE OWNERS EXCEPT AS NOTED ON THE PLANS, GENERAL NOTES OR SPECIFICATIONS.

10. SAWING OF EXISTING CONCRETE DRIVEWAY, ALLEY PAVEMENT, CURB, CURB & GUTTER OR SIDEWALKS WHEN REQUIRED FOR REMOVAL OR CONSTRUCTION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE VARIOUS PAY ITEMS FOR THE REMOVAL OF SUCH CONSTRUCTION.

11. ANY DEWATERING AND/OR SHEETING AND SHORING AND/OR OTHER APPROVED CONSTRUCTION METHODS REQUIRED TO INSTALL SEWER BID ITEMS AS PLANNED AND UNDER THE CONDITIONS NECESSARY TO DO THIS WORK AS SPECIFIED, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE UNIT PRICE OF THE ITEM TO BE CONSTRUCTED.

12. WHEN SAND IS THE EXCESS MATERIAL EXCAVATED WITHIN THE LIMITS OF THIS IMPROVEMENT, IT SHALL BE USED FOR TRENCH BACKFILL WHEN SO DIRECTED BY THE COMMISSIONER. THE COST OF MOVING AND PLACING IT SHALL BE INCIDENTAL TO THE CONTRACT UNIT PRICE FOR THE VARIOUS SEWER ITEMS OF THE CONTRACT. THE CONTRACTOR SHALL IMMEDIATELY REMOVE MATERIAL REJECTED WHEN SO ORDERED BY THE COMMISSIONER.

13. THE CITY OF CHICAGO IS TO MAKE ADJUSTMENTS TO ITS OFFICE OF EMERGENCY MANAGEMENT & COMMUNICATION FACILITIES. THE CONTRACTOR SHALL COORDINATE HIS WORK AND COOPERATE WITH THE CITY OF CHICAGO IN THESE ADJUSTMENTS. THIS COORDINATION AND COOPERATION BY THE CONTRACTOR WILL NOT BE PAID FOR SEPERATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COSTS OF THE CONTRACT.

14. ALL DRAINAGE STRUCTURES MUST BE KEPT OPERATIONAL FOR THE DURATION OF THE PROJECT. PROPOSED STRUCTURES WILL NOT BE APPROVED UNLESS THEY ARE CLEAN. PRIOR TO START OF CONSTRUCTION, AN INSPECTION OF EXISITNG MANHOLES, CATCH BASINS AND INLETS THAT ARE TO REMAIN WILL BE PERFORMED BY THE CITY AND CONTRACTOR. AT THAT TIME, THE CITY WILL DETERMINE WHICH STRUCTURES MUST BE CLEANED AS PER CONTRACT PAY ITEM(S). ANY AND ALL STRUCTURES REQUIRING CLEANING AT ANY OTHER TIME DUE TO CONSTRUCTION DEBRIS MUST BE CLEANED BY THE CONTRACTOR AND WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

15. IF IT IS DETERMINED IN THE FIELD THAT ANY EXISTING CATCH BASIN OR MANHOLE TO BE ADJUSTED, AS SPECIFIED IN THE PLANS, IS IN POOR CONDITIONS AND REQUIRES RECONSTRUCTION, THE CONTRACTOR MUST THEN PERFORM THE RECONSTRUCTION IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.

16. WITHIN THE LIMITS OF THE PROJECT, THERE MAY BE MANHOLES AND CATCH BASINS SHOWN ON THE DEPARTMENT OF WATER MANAGEMENT SEWER ATLASES THAT HAVE NOT BEEN LOCATED IN THE FIELD DUE TO THEIR BEING REMOVED, BURIED, ETC. IF DURING THE COURSE OF THE PROJECT, ANY SUCH STRUCTURE IS ENCOUNTERED DURING EXCAVATION, MANHOLES SHALL BE ADJUSTED, CATCH BASINS SHALL BE FILLED, AND THE OUTLET PIPE(S) SHALL BE PLUGGED. AN ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE SUMMARY OF QUANTITIES.

17. PROPOSED P.C. CONCRETE BASE COURSE OR P.C. CONCRETE PAVEMENT SHALL NOT BE OPENED TO VEHICULAR OR CONSTRUCTION TRAFFIC UNTIL AFTER THE SPECIFIED CURING PERIOD AS DEFINED IN SECTION 1020.13 OF THE SSRBC AND UNTIL THE JOINTS HAVE BEEN SEALED.

18. THE TRENCH BACKFILL QUANTITY SHOWN IN THE PLANS HAS BEEN CALCULATED ACCORDING TO THE STATE OF ILLINOIS TRENCH BACKFILL TABLE AND ALSO AS SPECIFIED IN ARTICLES 208.03 AND 550.07 OF THE SSRBC. AS STATED IN ARTICLE 550.07 OF THE STANDARD SPECIFICATIONS, NO ALLOWANCE HAS BEEN MADE IN THIS VOLUME FOR SLOPED OR BENCHED WALLS. THE VOLUME OF TRENCH BACKFILL SHOWN IN THE PLANS WILL BE THE BASIS OF THE MAXIMUM PAYMENT TO THE CONTRACTOR. WHERE SAND EXCAVATED FROM THE SITE IS USED AS SPECIFIED HEREIN, THESE VOLUMES WILL BE REDUCED AS DETERMINED BY THE FIELD MEASUREMENTS AND VOLUME CALCULATIONS OF THE COMMISSIONER.

19. THE CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTIES DURING THE CONSTRUCTION OPERATIONS. ADJACENT BUSINESS PROPERTY OWNERS SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF CONSTRUCTION OPERATIONS WHICH MAY AFFECT THEIR DAILY SCHEDULE. THE CONTRACTOR SHALL COORDINATE WORK THROUGH THE RESIDENT ENGINEER TO AVOID ANY UNDUE INCONVENIENCE TO LOCAL BUSINESSES.

20. THE CONTRACTOR MUST TAKE ALL NECESSARY SAFETY PRECAUTIONS TO PROTECT ABUTTING PROPERTY, UTILITIES, PARKING FACILITIES, BUS SHELTERS, PEDESTRIANS AND VEHICULAR TRAFFIC AT ALL TIMES.

21. ALL CATCH BASINS IN THE CITY OF CHICAGO MUST MEET THE DEPARTMENT OF WATER MANAGEMENT STANDARDS.

22. PERMITS FROM THE DEPARTMENT OF WATER MANAGEMENT ARE REQUIRED FOR ALL UNDERGROUND STORM OF SEWER STRUCTURES, THE D.W.M. PERMIT MUST BE OBTAINED BY A LICENSED SEWER DRAIN LAYER PRIOR TO THE START OF CONSTRUCTION. THE LICENSED SEWER CONTRACTOR SUBCONTRACTOR MUST SUBMIT TWO SETS OF PLANS APPROVED BY THE DEPARTMENT FOR THE ISSUE OF THE SEWER PERMIT TO SUITE 410, 333 SOUTH STATE STREET, CHICAGO, ILLINOIS 60604-3971. INSPECTION WILL BE PROVIDED BY THE DEPARTMENT. IN CASE OF DAMAGE TO THE CITY OF CHICAGO SEWERS, PRIVATE AND PUBLIC DRAINS, SEWER STRUCTURES AND/OR BENCH MONUMENTS, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE DEPARTMENT AT (312) 747-7852 OR (312) 747-7893.

23. BENCH MARK LOCATIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WITHIN THE LIMITS OF THE IMPROVEMENT CAN BE OBTAINED FROM THE DEPARTMENT OF WATER MANAGEMENT AT SUITE 410, 333 SOUTH STATE STREET, CHICAGO, ILLINOIS 60604-3971. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF REPLACING ANY BENCH MONUMENT DAMAGED OR DESTROYED DURING CONSTRUCTION.

24. SIDEWALK ACCESSIBILITY RAMPS SHALL NOT BE CONSTRUCTED DIRECTLY OVER EXISTING OR PROPOSED DRAINAGE STRUCTURES.

25. 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 WATER MANAGEMENT STANDARD FRAMES AND GRATES OR LIDS. OLD FRAMES AND GRATES OR LIDS SHALL BE DELIVERED TO THE DEPARTMENT OF WATER MANAGEMENT AT 39TH ST. AND ASHLAND AVENUE.

26. 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.

27. CURB AND GUTTER CONSTRUCTION SHALL PROVIDE A MINIMUM CURB HEIGHT OF 3 INCHES.

28. PAVEMENT REPLACEMENT AROUND FRAMES AND GRATES OR LIDS WHERE DRAINAGE, WATER MAIN OR ELECTRIC STRUCTURES ARE ADJUSTED OR RECONSTRUCTED, SHALL BE WITH CLASS SI CONCRETE.

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GROEF 8501 W. Higgins Road Suite 280 Chicago, Illinois 60631 (773) 399-0112

USER NAME = 8766	DESIGNED - JSO	REVISED -	
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PLOT SCALE = 100.0000 ' / in.	CHECKED - TNS	REVISED -	
PLOT DATE = 3/28/2014	DATE - 03-15-2013	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

63rd STREET BRIDGE REPLACEMENT - COOK COUNTY
GENERAL NOTES

SCALE: 1"=50' | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	3
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

GENERAL NOTES - CITY OF CHICAGO (CONT'D)

29. THE CONTRACTOR MUST OBTAIN A PERMIT TO REMOVE, PLANT, SPRAY, OR IN ANY WAY AFFECT THE GENERAL HEALTH OR STRUCTURE OF TREES IN THE PUBLIC WAY. SAID PERMITS MUST BE OBTAINED FROM THE BUREAU OF FORESTRY, 2352 S. ASHLAND AVENUE, 3rd FLOOR, (312) 746-5254.

30. THE CONTRACTOR SHALL USE WHATEVER CARE IS NECESSARY DURING ANY CONSTRUCTION OPERATIONS NEAR TREES WHICH ARE NOT MARKED FOR REMOVAL SO AS TO BE CERTAIN NOT TO CAUSE ANY INJURY TO THE ROOTS, TRUNKS OR BRANCHES THEREOF. ANY SUCH TREES INJURED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

31. THE EXPOSED SUBGRADE AND THE BOTTOM OF EXCAVATION SHOULD BE OBSERVED BY AN EXPERIENCED SOIL ENGINEER TO AID IN LOCATING ANY UNSUITABLE AREAS THAT MAY NEED IMPROVEMENT. MATERIALS IDENTIFIED AS UNSUITABLE BY THE COMMISSIONER SHALL BE REMOVED TO THE DEPTH SPECIFIED BY THE COMMISSIONER AND REPLACED.

32. THE CONTRACTOR SHALL CHECK THE ELEVATIONS AT THE PROPERTY LINE BEFORE SETTING THE TOP OF CURB ELEVATIONS AND IF NECESSARY, SHALL ADJUST THE TOP OF CURB AND/OR GUTTER ELEVATION TO MEET ADJACENT PROPERTY LINE ELEVATIONS TO THE SATISFACTION OF THE COMMISSIONER, AT NO COST TO THE CITY.

33. EXISTING PARKWAYS ABUTTING CURB ARE TO BE EXCAVATED ONE FOOT (1') BACK OF THE CURB AND MUST BE TOPSOILED AND/OR RE-SODDED TO MEET THE PROPOSED TOP OF CURB GRADE. TOPSOIL AND SODDING WILL BE PLACED IN PARKWAYS BEHIND THE CURB AND GUTTER AS DIRECTED BY THE COMMISSIONER.

34. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING FENCES AND GUARDRAILS DURING EXCAVATION AND ANY DAMAGE TO THE FENCES OR GUARDRAILS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR MUST REPLACE THE DAMAGED FENCE OR GUARDRAIL AT HIS EXPENSE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

35. NO EXCAVATION WILL BE PERMITTED MORE THAN ONE FOOT (1') FROM THE BACK OF PROPOSED CURB AND GUTTER WHERE TREES ARE TO REMAIN. HAND EXCAVATION MUST BE PERFORMED IF ROOTS ARE PRESENT. ALL WORK REQUIRED TO PRESERVE TREE ROOTS WILL BE CONSIDERED INCIDENTAL TO ALL REMOVAL ITEMS.

36. ALL TEMPORARY, REGULATORY, WARNING AND GUIDE SIGNS WITHIN THE PROPOSED IMPROVEMENT MUST BE RELOCATED BY THE CONTRACTOR AS DIRECTED BY THE COMMISSIONER, AT NO COST TO THE CITY.

37. THE CONTRACTOR IS ADVISED THAT CERTAIN CONSTRUCTION OPERATIONS WILL REQUIRE COORDINATION WITH AGENCIES OF THE CITY OF CHICAGO SCHEDULED TO PERFORM WORK WITHIN THE CITY LIMITS OF THE PROJECT CONCURRENTLY WITH THE CONTRACTOR. THE CONTRACTOR SHALL COOPERATE TO THE FULLEST EXTENT WITH THESE AGENCIES WITH COMPLIANCE APPLICABLE TO PORTIONS OF ARTICLE 105.01 OF THE SSRBC.

38. IT IS CALLED TO THE CONTRACTOR'S ATTENTION THAT HE MAY BE REQUIRED TO PAY INSPECTION FEES TO THE VARIOUS DEPARTMENTS OF THE CITY OF CHICAGO.

39. THE CONTRACTOR MUST OBTAIN NECESSARY PERMITS FROM THE CITY OF CHICAGO PRIOR TO COMMENCING CONSTRUCTION.

40. AS-BUILT PLANS MUST BE SUBMITTED SOON AFTER WORK COMPLETION. FINAL PAYMENT SHALL NOT BE MADE TO THE CONTRACTOR UNTIL THE COMMISSIONERS OF THE DEPARTMENT OF TRANSPORTATION AND DEPARTMENT OF WATER MANAGEMENT ACKNOWLEDGE RECEIPT OF AS-BUILTS.

41. THE CONTRACTOR SHALL USE EXTREME CARE IN PROSECUTING WORK OUTSIDE THE LIMIT OF RECONSTRUCTION AS SHOWN ON THE PLANS, SO AS NOT TO DAMAGE, DEFACE OR OTHERWISE DISTURB ADJACENT IMPROVED AREAS. ANY CORRECTIVE WORK DONE OUTSIDE THE LIMITS OF WORK THAT IS NECESSARY TO RESTORE ADJACENT AREAS TO EXISTING CONDITIONS WILL BE MADE AT THE EXPENSE OF THE CONTRACTOR.

42. ALL WORK IN THE PUBLIC WAY REQUIRES A PERMIT FROM THE CITY OF CHICAGO DEPARTMENT OF TRANSPORTATION, DIVISION OF INFRASTRUCTURE MANAGEMENT.

43. ONE HALF INCH (1/2") THICK EXPANSION JOINTS SHALL BE PLACED BETWEEN THE SIDEWALK AND ALL STRUCTURES SUCH AS LIGHT STANDARDS, TRAFFIC SIGNAL FOUNDATIONS AND MANHOLES WHICH EXTEND THROUGH THE SIDEWALK.

44. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE AND PUBLIC DRAINS, SEWERS OR CATCH BASINS. HE SHALL PROVIDE THE FACILITIES TO TAKE IN ALL STORM WATER WHICH SHALL BE RECEIVED BY THESE DRAINS AND SEWERS AND DISCHARGE THE SAME. HE SHALL PROVIDE AND MAINTAIN EFFICIENT PUMPING PLANT, IF NECESSARY, AND A TEMPORARY OUTLET AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER FROM TEMPORARY CONNECTIONS UNTIL SUCH TIME AS THE PERMANENT CONNECTIONS WITH THE SEWERS ARE BUILT AND IN SERVICE. ALL PUMPING SHALL ENTER A SETTLING BASIN SYSTEM, APPROVED BY THE COMMISSIONER, BEFORE PASSING INTO THE EXISTING DRAINAGE SYSTEM. THIS WORK SHALL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

45. FOR ANY EXCAVATION DEEPER THAN 12 FEET BELOW EXISTING GRADE, THE CONTRACTOR IS REQUIRED TO SUBMIT THE FOLLOWING FOR PRIOR REVIEW BY THE CITY OF CHICAGO DEPARTMENT OF TRANSPORTATION: (A) EARTH RETENTION SYSTEM DRAWING AND (B) CALCULATIONS SUPPORTING EARTH RETENTION SYSTEM DESIGN. THIS WORK AS SPECIFIED HEREIN WILL NOT BE PAID FOR SEPARATELY BUT MUST BE CONSIDERED INCIDENTAL TO THE CONTRACT UNIT PRICE FOR THE ITEMS TO BE CONSTRUCTED IN THE EXCAVATION.

46. THE CONTRACTOR MUST MAINTAIN ONE LANE OF TRAFFIC IN EACH DIRECTION SHOWN AS OPEN ON THE SUGGESTED MAINTENANCE OF TRAFFIC PLANS AT ALL TIMES, WITH MINIMUM LANE WIDTHS AS SHOWN IN THE SUGGESTED MAINTENANCE OF TRAFFIC PLANS.

47 TRAFFIC MUST BE MAINTAINED AS SHOWN ON ALL STREETS AND PARKING MUST BE PROHIBITED WITHIN 50 FEET OF THE CONSTRUCTION AREA AT ALL TIMES. THE CONTRACTOR MUST NOTIFY THE OFFICE OF EMERGENCY MANAGEMENT AND COMMUNICATIONS (OEMC), TRAFFIC MANAGEMENT AUTHORITY 48 HOURS BEFORE COMMENCING CONSTRUCTION.

48. THE CONTRACTOR'S VEHICLES MUST ALWAYS MOVE WITH AND NOT AGAINST OR ACROSS THE FLOW OF TRAFFIC. THESE VEHICLES MUST ENTER OR LEAVE WORK AREAS IN A MANNER WHICH WILL NOT BE HAZARDOUS TO OR INTERFERE WITH NORMAL TRAFFIC, AND MUST NOT PARK OR STOP EXCEPT WITHIN DESIGNATED WORK AREAS. PERSONAL VEHICLES WILL NOT BE PERMITTED TO PARK WITHIN THE RIGHT-OF-WAY EXCEPT IN SPECIFIC AREAS DESIGNATED BY THE COMMISSIONER.

49. WHERE SECTION OR SUBSECTION MONUMENTS OR BENCH MARKS ARE ENCOUNTERED, THE COMMISSIONER MUST BE NOTIFIED BEFORE SUCH MONUMENTS OR BENCH MARKS ARE REMOVED. THE CONTRACTOR MUST PROTECT AND CAREFULLY PRESERVE PROPERTY MARKERS AND MONUMENTS UNTIL THE COMMISSIONER HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

50. THE RESIDENT ENGINEER IN THE CITY OF CHICAGO IS ALSO KNOWN AS THE COMMISSIONER, WITH ALL COMMISSIONER NOTATIONS IN THE PLANS AND SPECIFICATIONS INDICATING THE RESIDENT ENGINEER.

51. DISTRICT ONE STANDARD TC-24 CITY OF CHICAGO TYPICAL PAVEMENT MARKINGS SHALL BE USED FOR PERMANENT PAVEMENT MARKINGS ON 63RD STREET, WENTWORTH AVENUE, AND YALE AVENUE. IDOT STANDARD 780001 TYPICAL PAVEMENT MARKINGS IS USED ONLY FOR THE DAN RYAN'S LANE DROP ARROWS.

52. THE CONTRACTOR MUST COORDINATE ALL CONSTRUCTION AND INSTALLATION ACTIVITIES WITH THE CTA. CONTACT MR. ABDIN CARRILLO, PROJECT MANAGER, CONSTRUCTION OVERSIGHT, CHICAGO TRANSIT AUTHORITY AT (312) 681-3913 OR (312) 515-0840. MR. CARRILLO WILL COORDINATE CONSTRUCTION ACTIVITIES AFFECTING THE CTA R.OW., CTA RAIL SAFETY TRAINING, INSURANCE REQUIREMENTS, SECURITY, AND CTA FLAGGING SERVICES.

53. THE CONTRACTOR SHALL COORDINATE THE RELOCATION OF CTA BUS STOP SIGNAGE WITH MR. CARRILLO AND THE CTA BUS OPERATIONS DEPARTMENT.

54. ALL WORK TO BE DONE ON OR ADJACENT TO THE CTA'S R.O.W. WILL REQUIRE A WORK PLAN SUBMITTED BY THE GENERAL CONTRACTOR TO CTA FOR REVIEW AND APPROVAL PRIOR TO THE START OF WORK. THE CONTRACTOR MUST PROVIDE A FIVE (5) WEEK LOOK AHEAD SCHEDULE TO THE CTA RAIL OPERATIONS DEPARTMENT.

55. CTA FLAGGING AND COORDINATION: FLAGGING, SINGLE TRACKS OR LINE CUTS ARE NOT REQUIRED IF ALL CONSTRUCTION ACTIVITIES, EQUIPMENT, PERSONNEL, CONSTRUCTION FENCES, ETC. ARE LOCATED AT LEAST 6'1" AWAY FROM THE CENTERLINE OF THE NEAREST TRACK. WHEN WORKING ADJACENT TO THE CTA TRACKS WITHOUT FLAGGING OR A SINGLE TRACK, THE CONTRACTOR SHALL CONSTRUCT A SOLID BARRIER AT LEAST 6' HIGH AND AT LEAST 6'1" FROM THE CENTERLINE OF NEAREST TRACK TO SEPARATE CONSTRUCTION ACTIVITIES FROM RAIL OPERATIONS. THE BARRIER SHALL BE DESIGNED BY A STRUCTURAL ENGINEER LICENSED IN ILLINOIS AND SUBMITTED TO THE CTA FOR REVIEW PRIOR TO START OF WORK. IF ANY CONSTRUCTION ACTIVITIES, EQUIPMENT, PERSONNEL, CONSTRUCTION FENCES, ETC. ARE CLOSER THAN 6'1" FROM THE CENTERLINE OF THE NEAREST TRACK, FLAGGING AND/OR A SINGLE TRACK OR A LINE CUT IS REQUIRED.

56. THE METRA CREATE ROCK ISLAND FLYOVER PROJECT WILL BE ONGOING THROUGH 2014 AND INTO 2015. THE CONTRACTOR SHALL COORDINATE WITH JOE OTT OF METRA AT (312) 322-6726.

GENERAL NOTES - CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT

1. PRIOR TO THE START OF CONSTRUCTION, A PERMIT IS REQUIRED FROM THE SEWER SECTION OF THE DEPARTMENT OF WATER MANAGEMENT FOR ANY UNDERGROUND SEWER WORK INCLUDING ADJUSTMENTS OF SEWER STRUCTURES AND REMOVAL/REPLACEMENT OF FRAMES AND LIDS. THE PERMIT MUST BE OBTAINED BY A DRAIN LAYER CURRENTLY LICENSED BY THE SEWER UNIT OF THE DEPARTMENT OF WATER MANAGEMENT.

2. THE CONTRACTOR IS RESPONSIBLE FOR THE ADEQUATE PROTECTION OF THE EXISTING SEWERS, DRAIN CONNECTIONS AND SEWER STRUCTURES DURING CONSTRUCTION OPERATIONS AND USE OF HEAVY EQUIPMENT IN THE LIMITS OF THE PROJECT.

3. THE CONTRACTOR MUST LOCATE AND PROPERLY CONNECT TO THE NEW SEWERS ALL LIVE HOUSE DRAINS, CATCH BASIN DRAINS, AND OTHER EXISTING LATERALS, DRAINS AND SEWERS OF WHATEVER NATURES, WHICH ARE CONNECTED TO THE EXISTING SEWERS BEING REPAIRED OR REPLACED.

4. EXISTING CATCH BASIN LATERALS TO BE REUSED MUST BE RODDED AND FLUSHED IN THE PRESENCE OF THE SEWER UNIT OF THE DEPARTMENT OF WATER MANAGEMENT INSPECTOR. A NEW CONNECTION TO THE MAIN SEWER IS REQUIRED IF THE EXISTING CATCH BASIN LATERAL IS NOT APPROVED BY THE SEWER INSPECTOR.

5. WHEN A SEWER STRUCTURE IS ABANDONED, ALL PIPE OPENINGS MUST BE PLUGGED, STRUCTURES FILLED WITH TRENCH BACKFILL, LIDS AND FRAMES REMOVED AND SURFACE RESTORED AS PER THE SEWER UNIT OF THE DEPARTMENT OF WATER MANAGEMENT'S STANDARDS AND SPECIFICATIONS.

6. THE CONTRACTOR IS REQUIRED TO REPLACE ANY BROKEN FRAMES AND LIDS OF SEWER STRUCTURES WITH THE SEWER UNIT OF THE DEPARTMENT OF WATER MANAGEMENT STANDARD FRAMES AND LIDS.

7. THE FRAMES AND LIDS OF SEWER STRUCTURES TO BE ABANDONED, REMOVED OR FILLED MUST BE SALVAGED AND THE SEWER UNIT OF THE DEPARTMENT OF WATER MANAGEMENT NOTIFIED FOR PICK UP.

8. IN LOCATIONS WHERE THE MAIN SEWER IS NOT BEING REPLACED AND THE EXISTING DRAINAGE FACILITIES ARE DISTURBED OR DAMAGED DURING CONSTRUCTION BY THE CONTRACTOR, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO RESTORE AND REPLACE THE DAMAGED FACILITIES AT HIS EXPENSE TO THE SATISFACTION OF THE SEWER UNIT OF THE DEPARTMENT OF WATER MANAGEMENT.

9. IN CASE OF ANY DAMAGE TO THE CITY'S SEWER SYSTEM OR PRIVATE AND PUBLIC DRAIN CONNECTIONS, THE CONTRACTOR MUST CONTACT THE SEWER UNIT OF THE DEPARTMENT OF WATER MANAGEMENT IMMEDIATELY AT (312) 747-8117 OR (312) 747-7893. THE CONTRACTOR MUST AT HIS EXPENSE, REPLACE THE AFFECTED SEWERS, DRAIN CONNECTIONS AND/OR SEWER STRUCTURES AS NECESSARY. THE SEWER FLOWS MUST BE MAINTAINED AT ALL TIMES.

10. UPON WORK COMPLETION, THE CONTRACTOR MUST PROVIDE THE SEWER UNIT OF THE DEPARTMENT OF WATER MANAGEMENT, FOR REVIEW AND ACCEPTANCE, A POST-CONSTRUCTION VIDEO TAPED INSPECTION OF THE SEWER MAINS.

11. AS-BUILT PLANS OF NEW OR REPLACED SEWERS IN THE PUBLIC RIGHT-OF-WAY MUST BE SUBMITTED TO THE DWM SEWER DESIGN SECTION WITHIN 30 DAYS AFTER COMPLETION OF THE PROJECT. THE AS-BUILT PLANS MUST BE SEALED BY A PROFESSIONAL ENGINEER OR REGISTERED LAND SURVEYOR AND BE SUBMITTED WITH THE APPROPRIATE TRANSMITTAL FORM AVAILABLE FROM THE RESIDENT ENGINEER. PLAN AND PROFILE DRAWINGS OF THE SEWERS AND SEWER STRUCTURES MUST BE SUBMITTED ON A COMPACT DISC IN *TIFF FORMAT. ALL ELECTRONIC FILES MUST BE SUBMITTED IN A FILE FOLDER WITH ONE FILE NAME REFLECTING THE ADDRESS OF THE PROJECT, WITH STREET NAME FIRST (IE. JACKSON ST. 300-500 S.) A HARD COPY OF THE AS-BUILT PLANS MUST ALSO BE SUBMITTED.

12. PRE-CONSTRUCTION VIDEO TAPED INSPECTION IS REQUIRED PRIOR TO ISSUANCE OF THE SEWER PERMIT. ALL LIVE LATERALS SHALL BE LOCATED FOR FUTURE CONNECTION TO THE PROPOSED SEWER.

13. THE CONTRACTOR SHALL INSTALL RESTRICTORS IN ALL NEW CATCH BASINS INSTALLED OUTSIDE THE CENTRAL BUSINESS DISTRICT. RESTRICTORS MUST NOT BE INSTALLED IN CATCH BASINS IN CLOSE PROXIMITY TO VIADUCT AREAS, BUS STOPS, OR EMERGENCY ENTRANCES. THE DWM MUST APPROVE THE NON-INSTALLATION OR REMOVAL OF ANY RESTRICTOR. REQUIREMENTS FOR RESTRICTOR INSTALLATION ARE AS FOLLOWS:

    ARTERIAL STREETS AND BUS ROUTES: 3-INCH ORIFICE RESTRICTORS
    RESIDENTIAL STREETS: 3-INCH VORTEX RESTRICTORS (WITH SWIRL CHAMBER)
    ALLEYS: 3-INCH ORIFICE RESTRICTOR IN THE LAST CATCH BASIN

    THE COST OF THE RESTRICTORS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR "CATCH BASIN (EXCEPT FRAME AND LID)".

14. THE EXISTING FIRE HYDRANT AT THE SOUTHWEST CORNER OF 63RD STREET AND YALE AVENUE IS TO MOVED TO STATION 19+22, 55' RT. THIS RELOCATION WORK WILL BE DONE BY THE CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT. THE CONTRACTOR SHALL COORDINATE THIS RELOCATION WITH THE DEPARTMENT OF WATER MANAGEMENT.

90% FED, 10% STATE URBAN

		CODE NO.	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	1 ROADWAY 0004	2 BRIDGE 0014	LIGHTING 0021	3 TRAFFIC SIGNALS 0021		
									63RD ST/ YALE AVE	63RD ST/ WENTWORTH AVE	INTER- CONNECT
		20200100	EARTH EXCAVATION	CU YD	346	346					
		20800150	TRENCH BACKFILL	CU YD	62	62					
		21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	43	43					
		21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	32	32					
		30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	1,177	1,177					
		31200110	STABILIZED SUBBASE 6"	SQ YD	43	43					
		40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	20	20					
		~~40300100~~	~~BITUMINOUS MATERIALS (PRIME COAT)~~	GALLON	~~22~~	~~22~~					
		42000501	PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)	SQ YD	1,068	1,068					
		42001300	PROTECTIVE COAT	SQ YD	1,593	1,593					
		42001420	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SQ YD	79	79					
		42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	720	720					
		42400410	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	SQ FT	1,818	1,818					
		42400800	DETECTABLE WARNINGS	SQ FT	164	164					
		44000100	PAVEMENT REMOVAL	SQ YD	1,099	1,099					
		44000300	CURB REMOVAL	FOOT	67	67					
		44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	400	400					
		44000600	SIDEWALK REMOVAL	SQ FT	2,538	2,538					
		44001980	CONCRETE BARRIER REMOVAL	FOOT	15	15					
		44004250	PAVED SHOULDER REMOVAL	SQ YD	43	43					
		48300820	PORTLAND CEMENT CONCRETE SHOULDERS 14"	SQ YD	43	43					
		50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1		1				
		50102400	CONCRETE REMOVAL	CU YD	309		309				
		50157300	PROTECTIVE SHIELD	SQ YD	2,652		2,652				
		50200100	STRUCTURE EXCAVATION	CU YD	217		217				

Rev.

GREEF 8501 W. Higgins Road Suite 280 Chicago, Illinois 60631 (773) 399-0112

USER NAME = 07765	DESIGNED - JSO	REVISED -	
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PLOT SCALE = 100.0000 ' / in.	CHECKED - TNS	REVISED -	
PLOT DATE = 3/31/2014	DATE - 03-15-2013	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

63rd STREET BRIDGE REPLACEMENT – COOK COUNTY
SUMMARY OF QUANTITIES

SCALE: NTS | SHEET 1 OF 8 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	5
		CONTRACT NO. 60J15		
		ILLINOIS FED. AID PROJECT		

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90% FED.
10% STATE

		CODE NO.	PAY ITEM DESCRIPTION	UNIT	URBAN TOTAL QUANTITY	ROADWAY 0004	BRIDGE 0014	LIGHTING 0021	TRAFFIC SIGNALS 0021		
									63RD ST/ YALE AVE	63RD ST/ WENTWORTH AVE	INTER- CONNECT
		50300225	CONCRETE STRUCTURES	CU YD	385.7		385.7				
		50300255	CONCRETE SUPERSTRUCTURE	CU YD	1142.5		1142.5				
		50300260	BRIDGE DECK GROOVING	SQ YD	2,390		2,390				
		50300300	PROTECTIVE COAT	SQ YD	3,607		3,607				
		50500105	FURNISHING & ERECTING STRUCTURAL STEEL	L SUM	1		1				
		50500505	STUD SHEAR CONNECTORS	EACH	16,830		16,830				
		50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	333,360		333,360				
		50800515	BAR SPLICERS	EACH	1612		1612				
		50901730	BRIDGE FENCE RAILING	FOOT	755		755				
		51300105	TEMPORARY BRIDGE COMPLETE	EACH	1		1				
		51500100	NAME PLATES	EACH	2		2				
		52000110	PREFORMED JOINT STRIP SEAL	FOOT	167		167				
		52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	22		22				
		52100020	ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	22		22				
		52100510	ANCHOR BOLTS, 3/4"	EACH	44		44				
		52100520	ANCHOR BOLTS, 1"	EACH	88		88				
		58700300	CONCRETE SEALER	SQ FT	8,540		8,540				
		59000200	EPOXY CRACK INJECTION	FOOT	19		19				
		60250200	CATCH BASINS TO BE ADJUSTED	EACH	1	1					
		60255500	MANHOLES TO BE ADJUSTED	EACH	9	9					
		60265700	VALVE VAULTS TO BE ADJUSTED	EACH	1	1					
*		60406520	FRAMES AND LIDS, OPEN LID (CITY OF CHICAGO)	EACH	1	1					
*		60406530	FRAMES AND LIDS, CLOSED LID (CITY OF CHICAGO)	EACH	1	1					
		60500050	REMOVING CATCH BASINS	EACH	4	4					
		63700805	CONCRETE BARRIER TRANSITION	FOOT	15	15					

25

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GRAEF 8501 W. Higgins Road Suite 280 Chicago, Illinois 60631 (773) 399-0112

USER NAME = 0766	DESIGNED - JSO	REVISED -
	DRAWN - HJM	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - TNS	REVISED -
PLOT DATE = 3/31/2014	DATE - 03-15-2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

63rd STREET BRIDGE REPLACEMENT – COOK COUNTY
SUMMARY OF QUANTITIES

SCALE: NTS | SHEET 2 OF 8 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	6
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

		CODE NO.	PAY ITEM DESCRIPTION	UNIT	90% FED. 10% STATE URBAN TOTAL QUANTITY	ROADWAY 0004	BRIDGE 0014	LIGHTING 0021	TRAFFIC SIGNALS 0021 63RD ST/ YALE AVE	TRAFFIC SIGNALS 0021 63RD ST/ WENTWORTH AVE	TRAFFIC SIGNALS 0021 INTER- CONNECT
		63700900	CONCRETE BARRIER BASE	FOOT	15	15					
	*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	260	260					
	*	66900210	HAZARDOUS WASTE DISPOSAL	CU YD	12	12					
	*	66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1	1					
	*	66900530	SOIL DISPOSAL ANALYSIS	EACH	5	5					
		67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12					
		67100100	MOBILIZATION	L SUM	1	1					
		70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	235	235					
		70106800	CHANGEABLE MESSAGE SIGN	CAL MO	7	7					
		70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	28	28					
		70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	498	498					
		70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	404	404					
		70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	80	80					
		70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	45	45					
		70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	16	16					
		70300510	PAVEMENT MARKING TAPE, TYPE III - LETTERS AND SYMBOLS	SQ FT	252	252					
		70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	23,680	23,680					
		70300530	PAVEMENT MARKING TAPE, TYPE III 5"	FOOT	7600	7600					
		70300540	PAVEMENT MARKING TAPE, TYPE III 6"	FOOT	1908	1908					
		70300550	PAVEMENT MARKING TAPE, TYPE III 8"	FOOT	1132	1132					
		70300560	PAVEMENT MARKING TAPE, TYPE III 12"	FOOT	344	344					
		70300570	PAVEMENT MARKING TAPE, TYPE III 24"	FOOT	130	130					
		70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	24,653	24,653					
		70400100	TEMPORARY CONCRETE BARRIER	FOOT	4,790	4,790					
		70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	22,370	22,370					

*Specialty Items

Rev.

90% FED.
10% STATE

	CODE NO.	PAY ITEM DESCRIPTION	UNIT	URBAN TOTAL QUANTITY	ROADWAY 0004	BRIDGE 0014	LIGHTING 0021	TRAFFIC SIGNALS 0021 63RD ST/ YALE AVE	TRAFFIC SIGNALS 0021 63RD ST/ WENTWORTH AVE	TRAFFIC SIGNALS 0021 INTER- CONNECT
	70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4	4					
	70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	12	12					
•	72000100	SIGN PANEL - TYPE 1	SQ FT	259	229			15	15	
*	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	4	4					
*	72400310	REMOVE SIGN PANEL - TYPE 1	SQ FT	198	198					
•	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1,695	1,695					
•	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	120	120					
•	78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	18,000	18,000					
•	78005120	EPOXY PAVEMENT MARKING - LINE 5"	FOOT	2,600	2,600					
•	78008200	POLYUREA PAVEMENT MARKING TYPE 1 - LETTERS AND SYMBOLS	SQ FT	278	278					
•	78008210	POLYUREA PAVEMENT MARKING TYPE 1 - LINE 4"	FOOT	9,915	9,915					
•	78008220	POLYUREA PAVEMENT MARKING TYPE 1 - LINE 5"	FOOT	2,600	2,600					
•	78008230	POLYUREA PAVEMENT MARKING TYPE 1 - LINE 6"	FOOT	678	678					
•	78008250	POLYUREA PAVEMENT MARKING TYPE 1 - LINE 12"	FOOT	594	594					
•	78008270	POLYUREA PAVEMENT MARKING TYPE 1 - LINE 24"	FOOT	195	195					
•	78100300	REPLACEMENT REFLECTOR	EACH	270	270					
*	78200530	BARRIER WALL MARKERS, TYPE C	EACH	550	550					
	78300100	PAVEMENT MARKING REMOVAL	SQ FT	4,991	4,991					
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	270	270					
•	81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	237			237			
•	81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	221			221			
•	81300220	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6"x6"x4"	EACH	12			12			
•	81300530	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12"x10"x6"	EACH	6			6			
•	81300948	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 24"x24"x10"	EACH	2			2			
*	81300960	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE 42"x36"x12"	EACH	3		3				
•	89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5,982			5,982			

* Specialty Items

Rev.

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GRAEF 8501 W. Higgins Road, Suite 280 Chicago, Illinois 60631 (773) 399-0112	USER NAME = 8766	DESIGNED - JSO	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	63rd STREET BRIDGE REPLACEMENT – COOK COUNTY SUMMARY OF QUANTITIES
		DRAWN - HJM	REVISED -		
	PLOT SCALE = 100.0000 ' / in.	CHECKED - TNS	REVISED -		
	PLOT DATE = 3/31/2014	DATE - 03-15-2013	REVISED -		SCALE: NTS SHEET 4 OF 8 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	8
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

		CODE NO.	PAY ITEM DESCRIPTION	UNIT	90% FED. 10% STATE URBAN TOTAL QUANTITY	ROADWAY 0004	BRIDGE 0014	LIGHTING 0021	TRAFFIC SIGNALS 0021		
									63RD ST/ YALE AVE	63RD ST/ WENTWORTH AVE	INTER- CONNECT
		X2011000	TEMPORARY FENCE (SPECIAL)	FOOT	453		453				
		X4060110	BITUMINOUS MATERIALS (PRIME COAT)	POUND	97	97					
		X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	92		92				
"		X6020083	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID (CITY OF CHICAGO)	EACH	1	1					
"		X6022505	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID (CITY OF CHICAGO)	EACH	4	4					
		X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1	1					
		X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1					
		X7013820	TRAFFIC CONTROL SURVEILLANCE, EXPRESSWAYS	CAL DA	235	235					
		Z0004552	APPROACH SLAB REMOVAL	SQ YD	738	738					
		Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	797		797				
		Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1					
		Z0018004	DRAINAGE SCUPPERS, DS-12	EACH	4		4				
		Z0018800	DRAINAGE SYSTEM	L SUM	1		1				
		Z0026407	TEMPORARY SHEET PILING	SQ FT	327		327				
		Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1					
		Z0073100	TEMPORARY SHORING	EACH	4		4				
		X0370135	CONCRETE CURB, TYPE B SPECIAL (CDOT)	FOOT	101	101					
"		X0370080	COMBINATION CURB AND GUTTER TYPE B V.12 (CDOT)	FOOT	400	400					
		31101860	SUBBASE GRANULAR MATERIAL, TYPE B 24"	SQ YD	43	43					
		X0327617	MODIFY CONCRETE BARRIER AND RETAINING WALL	L SUM	1	1					
"		X0370081	SAND CUSHION, 4" (CDOT)	SQ FT	2,538	2,538					
		X0327618	LANDSCAPING, SPECIAL	L SUM	1	1					
"		X0370082	STORM SEWER, TYPE 2, 8 INCH, EXTRA STRENGTH VITRIFIED CLAY PIPE (CDOT)	FOOT	98	98					
"		X0370083	STORM SEWER, TYPE 2, 8 INCH, DUCTILE IRON PIPE (CDOT)	FOOT	113	113					
"	*	X0370121	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL (CDOT)	FOOT	518			518			
"	*	X0370122	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL (CDOT)	FOOT	634			634			

*specialty items

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USER NAME = 0766	DESIGNED - JSO	REVISED -
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PLOT DATE = 3/31/2014	DATE - 03-15-2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

63rd STREET BRIDGE REPLACEMENT - COOK COUNTY
SUMMARY OF QUANTITIES

SCALE: NTS | SHEET 5 OF 8 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-8	COOK	142	9

CONTRACT NO. 60J15

ILLINOIS FED. AID PROJECT

90% FED.
10% STATE
(URBAN)

		CODE NO.	PAY ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY 0004	BRIDGE 0014	LIGHTING 0021	TRAFFIC SIGNALS 0021		
									63RD ST/ YALE AVE	63RD ST/ WENTWORTH AVE	INTER- CONNECT
"	*	X0370123	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL (CDOT)	FOOT	140			140			
"	*	X0370124	CONDUIT ATTACHED TO STRUCTURE, 3" DIA., GALVANIZED STEEL (CDOT)	FOOT	3,330		320				3,010
"	*	X0370125	CONDUIT ATTACHED TO STRUCTURE, 3" DIA., PVC COATED GALVANIZED STEEL (CDOT)	FOOT	952			952			
"	*	X0370126	UNIT DUCT, 600 V, 3-1/C NO. 2, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE (CDOT)	FOOT	102			102			
#	*	X0370203	CONDUIT ATTACHED TO STRUCTURE, 4" DIA., GALVANIZED STEEL (CDOT)	FOOT	720		720				
"	*	X0370127	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10 (CDOT)	FOOT	2,786			2,786			
"	*	X0370128	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4 (CDOT)	FOOT	932			932			
"	*	X0370129	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2 (CDOT)	FOOT	2790		290	2,500			
#	*	X0370204	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO.4/0 (CDOT)	FOOT	870		870				
"	*	X0370140	REMOVE EXISTING STREET LIGHTING EQUIPMENT (CDOT)	L SUM	1			1			
#	*	X0370205	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C 500 MCM (CDOT)	FOOT	2320		2320				
"	*	X0370120	RACK, SECONDARY-AERIAL, 2-WIRE (CDOT)	EACH	1			1			
"	*	X0370131	REMOVE CONDUIT ATTACHED TO STRUCTURE (CDOT)	FOOT	2,403		320	2,083			
"	*	X0370132	MAINTENANCE OF STREET LIGHTING SYSTEM (CDOT)	L SUM	1			1			
"	*	X0370003	ELECTRIC CABLE IN CONDUIT, TRIPLEX, 2-1/C NO.6 AND 1-1/C NO.8 GROUND (CDOT)	FOOT	2,692			2,692			
"	*	X0370133	PAINT EXISTING STREET LIGHT/TRAFFIC EQUIPMENT COMPLETE (CDOT)	EACH	1			1			
"	*	X0370134	JUNCTION BOX, POLE OR POST MOUNTED (CDOT)	EACH	2				1	1	
"	*	X0370136	REMOVE EXISTING JUNCTION BOX (CDOT)	EACH	30			30			
"	*	X0370137	PROTECTION AND MAINTENANCE OF EXISTING UNDERPASS LIGHTING (CDOT)	L SUM	1			1			
"	*	X0370138	ELECTRIC CABLE IN CONDUIT, COAXIAL VIDEO, RG-59/U (CDOT)	FOOT	197				48	149	
"	*	X0370139	MAINTENANCE OF LIGHTING SYSTEM (CDOT)	CAL MO	6			6			
"	*	X0370084	DRILL MANHOLE OR HANDHOLE (CDOT)	EACH	28				14	14	
@ #	*	X0370085	CLEAN MANHOLE OR HANDHOLE (CDOT)	EACH	8				4	4	
"	*	X0370076	ROD AND CLEAN DUCT IN EXISTING CONDUIT SYSTEM (CDOT)	FOOT	456				238	218	
"	*	X0370002	BREAKDOWN STREET LIGHT FOUNDATION (CDOT)	EACH	6				3	3	
"	*	X0370001	TRENCH AND BACKFILL WITH SCREENINGS (CDOT)	FOOT	316				42	39	235
"	*	X0370086	CONCRETE FOUNDATION, 30" DIAMETER, 1 1/4" ANCHOR RODS, 17 1/4" BOLT CIRCLE, 9 FEET (CDOT)	EACH	1					1	

@ 100% STATE (NP)

* Specialty Items

Rev.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

63rd STREET BRIDGE REPLACEMENT – COOK COUNTY
SUMMARY OF QUANTITIES

SCALE: NTS | SHEET 6 OF 8 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-6	COOK	142	10
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

90% FED.
10% STATE

		CODE NO.	PAY ITEM DESCRIPTION	URBAN UNIT	TOTAL QUANTITY	ROADWAY 0004	BRIDGE 0014	LIGHTING 0021	TRAFFIC SIGNALS 0021		
									63RD ST/ YALE AVE	63RD ST/ WENTWORTH AVE	INTER- CONNECT
"	*	X0370087	CONCRETE FOUNDATION, 30" DIAMETER, 1 1/2" ANCHOR RODS, 16 1/2" BOLT CIRCLE, 11 FEET (CDOT)	EACH	5				3	2	
"	*	X0370088	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION (CDOT)	EACH	2				1	1	
"	*	X0370089	TEMPORARY TRAFFIC SIGNAL INSTALLATION (CDOT)	EACH	2				1	1	
"	*	X0370090	SIGNAL HEAD, POLYCARBONATE, LED, 3-SECTION, BRACKET MOUNTED (CDOT)	EACH	6				3	3	
"	*	X0370091	SIGNAL HEAD, POLYCARBONATE, LED, 3-SECTION, MAST ARM MOUNTED (CDOT)	EACH	10				5	5	
"	*	X0370092	SIGNAL HEAD, POLYCARBONATE, LED, 4-SECTION, BRACKET MOUNTED (CDOT)	EACH	2				1	1	
"	*	X0370093	SIGNAL HEAD, POLYCARBONATE, LED, 4-SECTION, MAST ARM MOUNTED (CDOT)	EACH	2				1	1	
"	*	X0370094	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, 1-FACE, LED, BRACKET MOUNTED, COUNTDOWN (CDOT)	EACH	4				2	2	
"	*	X0370095	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, 2-FACE, LED, BRACKET MOUNTED, COUNTDOWN (CDOT)	EACH	4				2	2	
"	*	X0370096	ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14, 9/C (CDOT)	FOOT	1,086				552	534	
"	*	X0370097	MAST ARM, STEEL, MONOTUBE, 30 FOOT (CDOT)	EACH	1					1	
"	*	X0370098	MAST ARM, STEEL, MONOTUBE, 35 FOOT (CDOT)	EACH	2				1	1	
"	*	X0370099	MAST ARM, STEEL, MONOTUBE, 40 FOOT (CDOT)	EACH	1					1	
"	*	X0370100	MAST ARM, STEEL, MONOTUBE, 44 FOOT (CDOT)	EACH	2				2		
"	*	X0370101	POLE, STEEL, ANCHOR BASE, 11" DIAMETER, 3 GAUGE, 32'-6" (CDOT)	EACH	2				1	1	
"	*	X0370102	POLE, STEEL, ANCHOR BASE, 11" DIAMETER, 3 GAUGE, 34'-6" (CDOT)	EACH	1					1	
"	*	X0370103	POLE, STEEL, ANCHOR BASE, 12 1/2" DIAMETER, 3 GAUGE, 34'-6" (CDOT)	EACH	5				3	2	
"	*	X0370104	RELOCATE EXISTING VIDEO DETECTION CAMERA, COMPLETE (CDOT)	EACH	2				1	1	
"	*	X0370105	REMOVE EXSITING TRAFFIC SIGNAL POST OR POLE (CDOT)	EACH	8				4	4	
"	*	X0370106	REMOVE CABLE FROM CONDUIT (CDOT)	FOOT	4426		3360		539	527	
"	*	X0370107	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT (CDOT)	EACH	2				1	1	

*Specialty Items

Rev.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

63rd STREET BRIDGE REPLACEMENT – COOK COUNTY
SUMMARY OF QUANTITIES

SCALE: NTS 50' | SHEET 7 OF 8 SHEETS | STA. | TO STA.

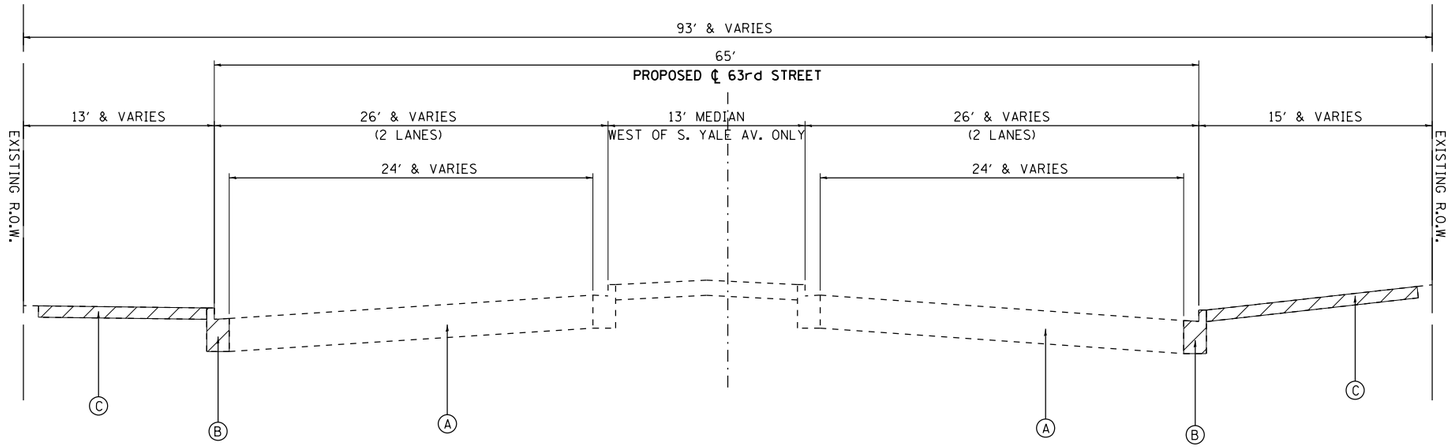
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	11
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

		CODE NO.	PAY ITEM DESCRIPTION	UNIT	90% FED. 10% STATE URBAN TOTAL QUANTITY	ROADWAY 0004	BRIDGE 0014	LIGHTING 0021	TRAFFIC SIGNALS 0021 63RD ST/ YALE AVE	TRAFFIC SIGNALS 0021 63RD ST/ WENTWORTH AVE	TRAFFIC SIGNALS 0021 INTER- CONNECT
▪	*	X0370108	INNERDUCT IN CONDUIT, 1 1/4" (CDOT)	FOOT	532						532
▪	*	X0370109	FIBER OPTIC HYBRID CABLE IN CONDUIT 6SM/6MM (CDOT)	FOOT	680						680
▪	*	X0370110	CABINET WORK, SPLICING, TESTING AND MISC. (CDOT)	EACH	2				1	1	
▪	*	X0370111	GALVANIZED STEEL CONDUIT IN TRENCH, 3-INCH DIA. (CDOT)	FOOT	1,178						1,178
▪	*	X0370112	PVC CONDUIT IN TRENCH, 3-INCH DIA. (CDOT)	FOOT	162				84	78	
▪	*	X0370113	TRACER CABLE (CDOT)	FOOT	532						532
▪	*	X0370114	RACKING CABLES IN MANHOLE OR HANDHOLE (CDOT)	EACH	8				4	4	
▪	*	X0370115	POLE, STEEL, 32'6", ANCHOR BASE, 11 1/2" DIAMETER BOLT CIRCLE, 7GAUGE, (INSTALL ONLY) (CDOT)	EACH	4			4			
▪	*	X0370116	MAST ARM, STEEL, STREET LIGHTING, 8 FOOT (INSTALL ONLY) (CDOT)	EACH	9			9			
▪	*	X0370117	MAST ARM, STEEL, STREET LIGHTING, 15 FOOT (INSTALL ONLY) (CDOT)	EACH	4			4			
▪	*	X0370118	LUMINAIRE, STREET LIGHT, CERAMIC METAL HALIDE, 210 WATT, 240 VOLT, ARTERIAL, SEMI-CUTOFF (INSTALL ONLY) (CDOT)	EACH	15			15			
Ø		Z0076600	TRAINEES	HOUR	1000	1000					
▪	*	X0370119	WIRE, AERIAL, 1/C NO. 6 (CDOT)	FOOT	260			260			
Ø		Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	1000	1000					

* DENOTES SPECIALTY ITEM

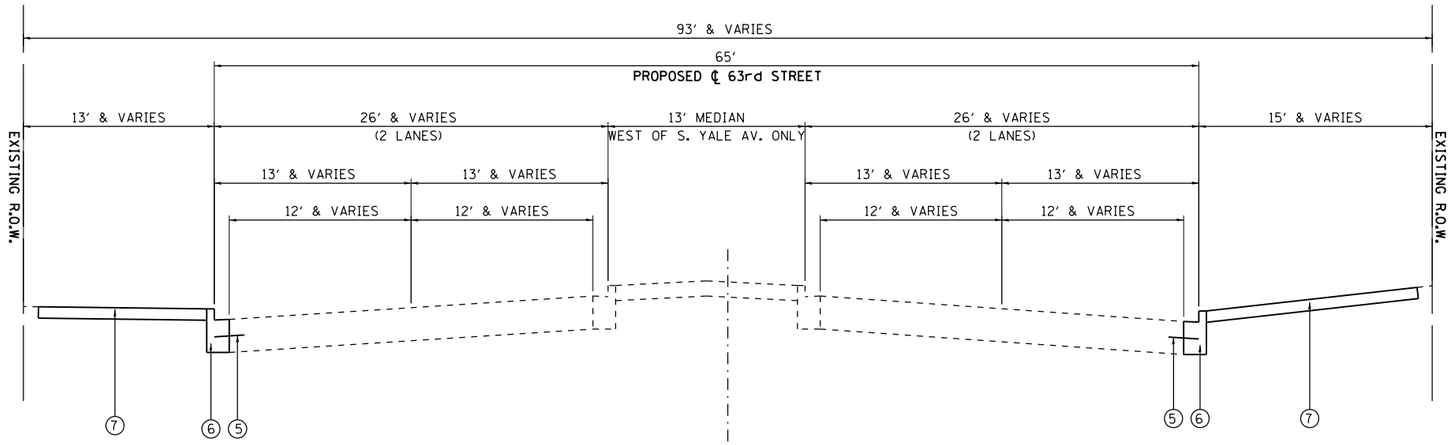
▪ DENOTES CHICAGO DEPARTMENT OF TRANSPORTATION SPECIAL PROVISION

Ø 0042



EXISTING TYPICAL SECTION

(LOOKING EAST)
STA. 19+00 to STA. 19+19 AND
STA. 23+92 to STA. 24+53



PROPOSED TYPICAL SECTION

(LOOKING EAST)
STA. 19+00 to STA. 19+19 AND
STA. 23+92 to STA. 24+53

EXISTING CONDITIONS:

- (A) P.C.C. PAVEMENT
- (B) COMBINATION CONCRETE CURB AND GUTTER
- (C) P.C.C. SIDEWALK (5'') & 8'' (AT ADA RAMPS)

ITEM TO BE REMOVED

PROPOSED CONDITIONS:

1. P.C.C. PAVEMENT 10'' (JOINTED)
2. AGGREGATE SUBGRADE IMPROVEMENT 12''
3. LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6x24 EPOXY COATED TIE BARS AT 24'' CENTERS
4. LONGITUDINAL SAWED JOINT WITH NO. 6x30 EPOXY COATED TIE BARS AT 30'' CENTERS
5. NO. 5x30 EPOXY COATED ROUND TIE BARS AT 30'' CENTERS, DRILLED AND GROUTED
6. COMBINATION CURB & GUTTER TYPE B-V.12
7. P.C.C. SIDEWALK 5''
8. PARAPET WALL
9. BRIDGE FENCE RAILING

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
MIXTURE TYPE	AIR VOIDS	QUALITY MANAGEMENT PROGRAM (QMP)
STABILIZED SUBBASE 6''		
STABILIZED SUBBASE HMA (IL-19mm) 6''	4% @ 50 GYR	QC/QA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA)		

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE IS 112 LBS/SQ YD/IN.

THE ''AC TYPE'' FOR NON-POLYMERIZED HMA MIXES SHALL BE ''PG 64-22'' UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

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PLOT DATE = 4/26/2014	DATE - 03-15-2013	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

63rd STREET BRIDGE REPLACEMENT – COOK COUNTY
TYPICAL SECTIONS

SCALE: 1''=50' | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	13
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

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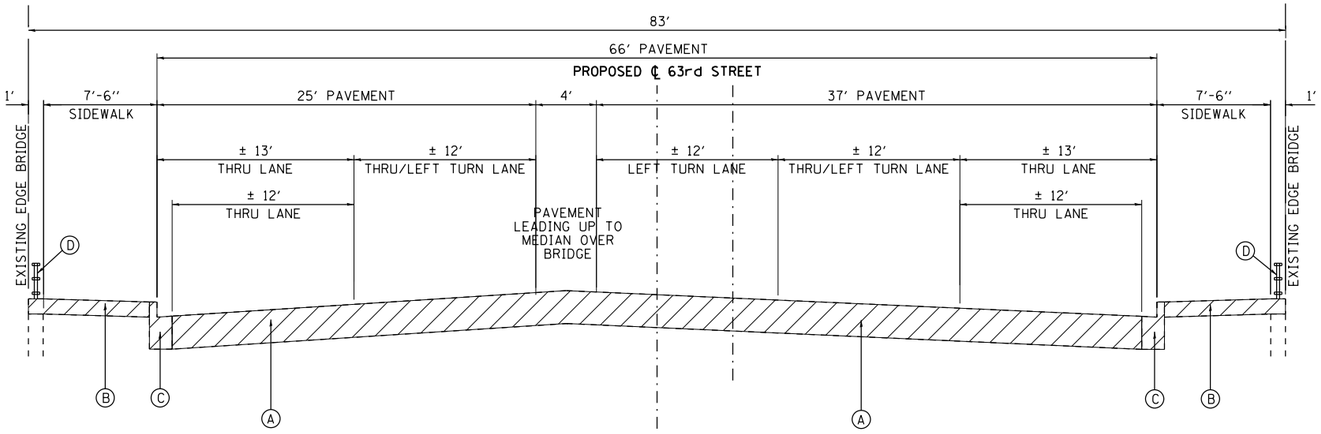


EXISTING TYPICAL SECTION

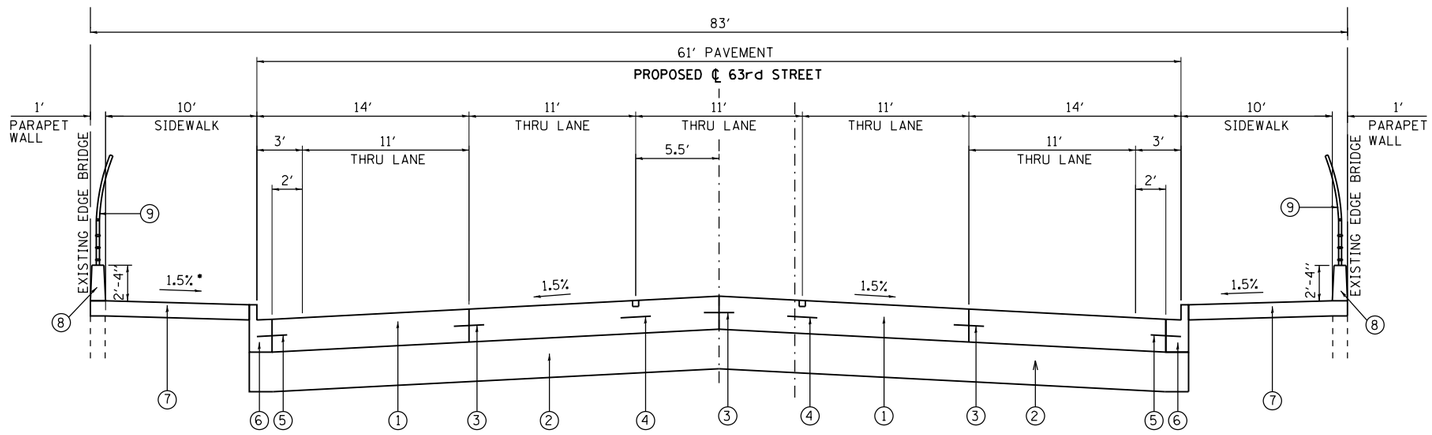
(LOOKING EAST)
STA. 19+19 TO STA. 19+86
STA. 23+66 TO STA. 23+92

BRIDGE OMISSION
STA. 19+86 TO STA. 23+66

EXISTING CONDITIONS:

- (A) P.C.C. PAVEMENT
- (B) P.C.C. SIDEWALK
- (C) P.C.C. CURB & GUTTER
- (D) STEEL HANDRAIL (TO BE REMOVED)

ITEM TO BE REMOVED



* SLOPE 1" AT BRIDGE APPROACH PAVEMENT

PROPOSED TYPICAL SECTION

(LOOKING EAST)
STA. 19+19 TO STA. 19+93.60
STA. 23+58.41 TO STA. 23+92

BRIDGE OMISSION
STA. 19+93.60 TO STA. 23+58.41

PROPOSED CONDITIONS:

1. P.C.C. PAVEMENT 10" (JOINTED)
2. AGGREGATE SUBGRADE IMPROVEMENT 12"
3. LONGITUDINAL CONSTRUCTION JOINT WITH NO. 6x24 DEFORMED EPOXY COATED TIE BARS AT 24" CENTERS
4. LONGITUDINAL SAWED JOINT WITH NO. 6x30 DEFORMED EPOXY COATED TIE BARS AT 30" CENTERS
5. NO. 5x30 EPOXY COATED ROUND TIE BARS AT 30" CENTERS
6. COMBINATION CURB & GUTTER TYPE B-V.12
7. P.C.C. SIDEWALK 5"
8. PARAPET WALL
9. BRIDGE FENCE RAILING

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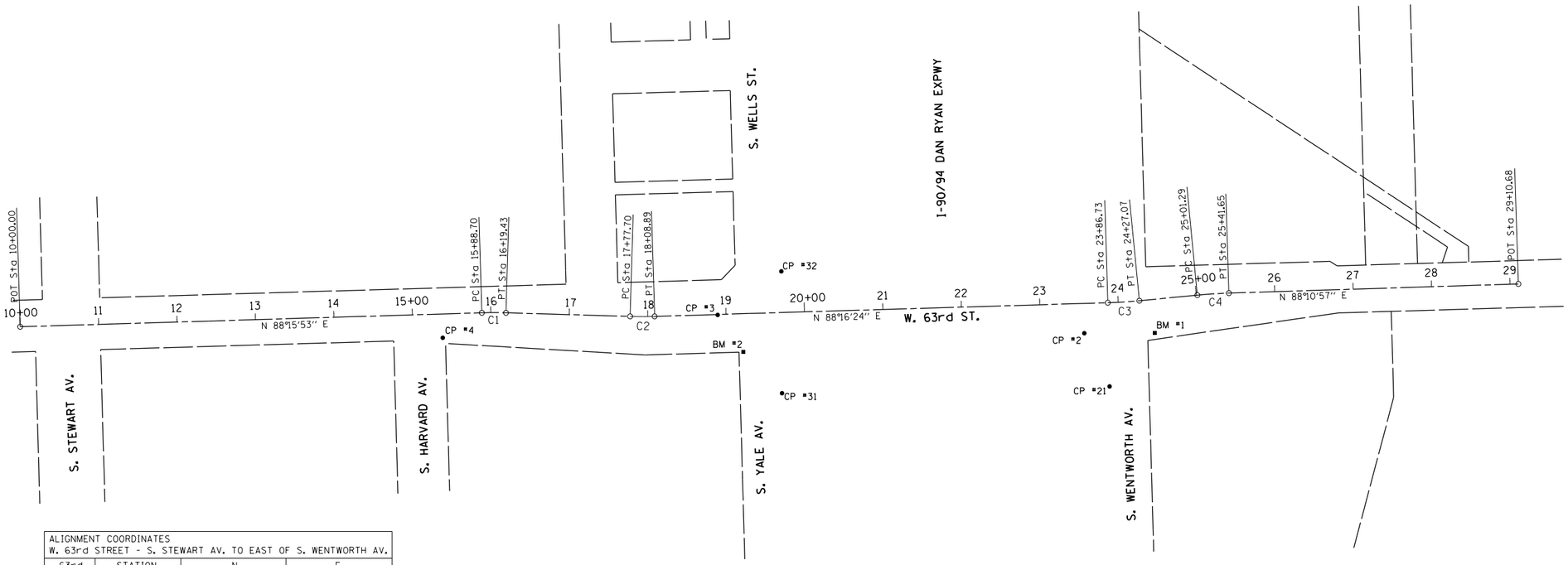
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

63rd STREET BRIDGE REPLACEMENT - COOK COUNTY
TYPICAL SECTIONS

SCALE: 1"=50' | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	14
		CONTRACT NO. 60J15		
	ILLINOIS	FED. AID PROJECT		



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SCALE 1" = 80'

ALIGNMENT COORDINATES W. 63rd STREET - S. STEWART AV. TO EAST OF S. WENTWORTH AV.			
63rd	STATION	N	E
POT	10+00.00	1,863,159.83	1,174,638.25
PC	15+88.70	1,863,177.66	1,175,226.68
PI	16+04.07	1,863,178.12	1,175,242.04
PT	16+19.43	1,863,177.68	1,175,257.40
PC	17+77.70	1,863,173.08	1,175,415.61
PI	17+93.30	1,863,172.63	1,175,431.20
PT	18+08.89	1,863,173.10	1,175,446.79
PC	23+86.73	1,863,190.51	1,176,024.37
PI	24+06.91	1,863,191.11	1,176,044.54
PT	24+27.07	1,863,193.05	1,176,064.63
PC	25+01.29	1,863,200.17	1,176,138.51
PI	25+21.48	1,863,202.11	1,176,158.60
PT	25+41.65	1,863,202.75	1,176,178.78
POT	29+10.68	1,863,214.45	1,176,547.62

CURVE C1
PI STA. = 16+04.07
Δ = 3° 23' 57" (RT)
D = 11° 03' 40"
R = 517.99'
T = 15.37'
L = 30.73'
E = 0.23'
P.C. STA. = 15+88.70
P.T. STA. = 16+19.43

CURVE C2
PI STA. = 17+93.30
Δ = 3° 23' 26" (LT)
D = 10° 52' 17"
R = 527.04'
T = 15.60'
L = 31.19'
E = 0.23'
P.C. STA. = 17+77.70
P.T. STA. = 18+08.89

CURVE C3
PI STA. = 24+06.91
Δ = 3° 46' 39" (LT)
D = 9° 21' 49"
R = 611.89'
T = 20.18'
L = 40.34'
E = 0.33'
P.C. STA. = 23+86.73
P.T. STA. = 24+27.07

CURVE C4
PI STA. = 25+21.48
Δ = 3° 41' 13" (RT)
D = 9° 08' 06"
R = 627.21'
T = 20.19'
L = 40.36'
E = 0.32'
P.C. STA. = 25+01.29
P.T. STA. = 25+41.65

BENCHMARK #1

ELEV. 603.071'

CHISELED SQUARE ON THE NORTHEAST CORNER OF CONCRETE BASE FOR TRAFFIC CONTROL BOX AT THE SOUTHEAST CORNER OF W. 63rd STREET & S. WENTWORTH AVENUE

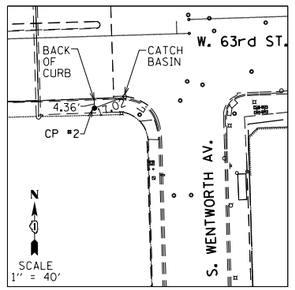
STATION 24+42.75, 42.63' RT.
N 1,863,152.12
E 1,176,084.33

BENCHMARK #2

ELEV. 601.095'

CHISELED CROSS ON CHAIN BOLT OF HYDRANT AT THE SOUTWEST CORNER OF S. YALE AVENUE & W. 63rd STREET

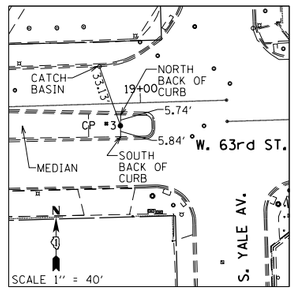
STATION 19+20.27, 48.49' RT.
N 1,863,128.00
E 1,175,559.54



CONTROL POINT #2

CHISELED CROSS IN CONCRETE WALK ON THE SOUTH SIDE OF W. 63rd STREET AT THE EAST END OF BRIDGE, WEST OF S. WENTWORTH AVENUE

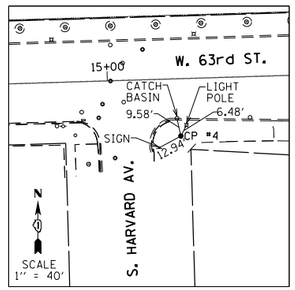
ELEV. 600.14'
STATION 23+55.39, 37.95' RT.
N 1,863,151.637
E 1,175,994.484



CONTROL POINT #3

CHISELED CROSS IN CONCRETE MEDIAN ISLAND ±30' WEST OF MEDIAN NOSE WEST OF S. YALE AV. IN W. 63rd STREET

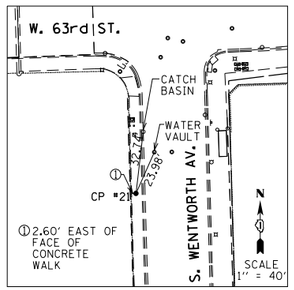
ELEV. 600.25'
STATION 18+89.02, 11.77' RT.
N 1,863,174.983
E 1,175,527.219



CONTROL POINT #4

CHISELED CROSS IN SIDEWALK AT THE NE CORNER OF S. HARVARD AVENUE & W. 63rd STREET

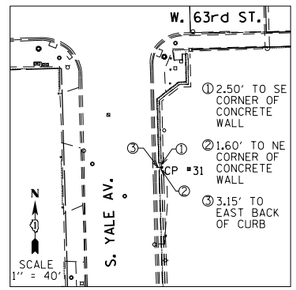
ELEV. 599.01'
STATION 15+37.90, 30.31' RT.
N 1,863,145.819
E 1,175,176.823



CONTROL POINT #21

CHISELED CROSS IN CONCRETE WALK ON THE WEST SIDE OF S. WENTWORTH AVENUE 66.20' SOUTH OF THE SOUTH LINE OF W. 63rd STREET

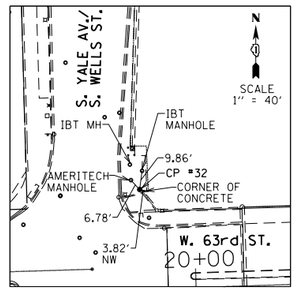
ELEV. 600.92'
STATION 23+85.55, 106.76' RT.
N 1,863,083.76
E 1,176,026.70



CONTROL POINT #31

CHISELED CROSS IN CONCRETE WALK ON THE EAST SIDE OF S. YALE AVENUE 62.00' SOUTH OF THE SOUTH LINE OF W. 63rd STREET

ELEV. 599.65'
STATION 19+68.01, 102.78' RT.
N 1,863,075.16
E 1,175,609.23



CONTROL POINT #32

CHISELED CROSS IN CONCRETE WALK AT THE NE CORNER OF S. YALE AVENUE/S. WELLS STREET & W. 63rd STREET

ELEV. 599.90'
STATION 19+71.80, 52.56' LT.
N 1,863,230.55
E 1,175,608.34

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GRAEF 8501 W. Higgins Roads Suite 280 Chicago, Illinois 60631 (773) 399-0112

USER NAME = 0766	DESIGNED - JSO	REVISED -
	DRAWN - HJM	REVISED -
PLOT SCALE = 160.0000 ' / in.	CHECKED - TNS	REVISED -
PLOT DATE = 3/28/2014	DATE - 03-15-2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

63rd STREET BRIDGE REPLACEMENT – COOK COUNTY
ALIGNMENT, TIES AND BENCHMARKS

SCALE: 1"=50' | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	15
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

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

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
BM. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

PAVEMENT RECONSTRUCTION LIMITS 62' LT.

PAVEMENT RECONSTRUCTION LIMITS STA. 19+19

PAVEMENT RECONSTRUCTION LIMITS 59' RT.

PAVEMENT RECONSTRUCTION LIMITS STA. 23+92

S. WELLS ST. ONE WAY

S. YALE AVE

S. WENTWORTH AVE

I-90/94 DAN RYAN EXPWY SB LOCAL LANES

I-90/94 DAN RYAN EXPWY SB EXPRESS LANES

CTA REDLINE STATION

I-90/94 DAN RYAN EXPWY NB EXPRESS LANES

I-90/94 DAN RYAN EXPWY NB LOCAL LANES

ONE WAY

W. 63rd STREET

N

40'R

20'R

19'R

22'R

24'R

15'R

12'R

B V.12 C&G

EX. ASPHALT PAVEMENT

EX. CONCRETE PAVEMENT

EDGE OF EXISTING BRIDGE APPROACH SLAB

59'

29.5'

61' F-F

PAVEMENT RECONST.

BRIDGE APPROACH PAVEMENT

STA. 19+87.60

STA. 19+93.60

BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)

STA. 23+58.41

STA. 23+64.41

LIMIT OF BRIDGE APPROACH PAVEMENT CONNECTOR FOOTING

EXISTING PROFILE GRADELINE

PROPOSED CENTERLINE

NOTES:

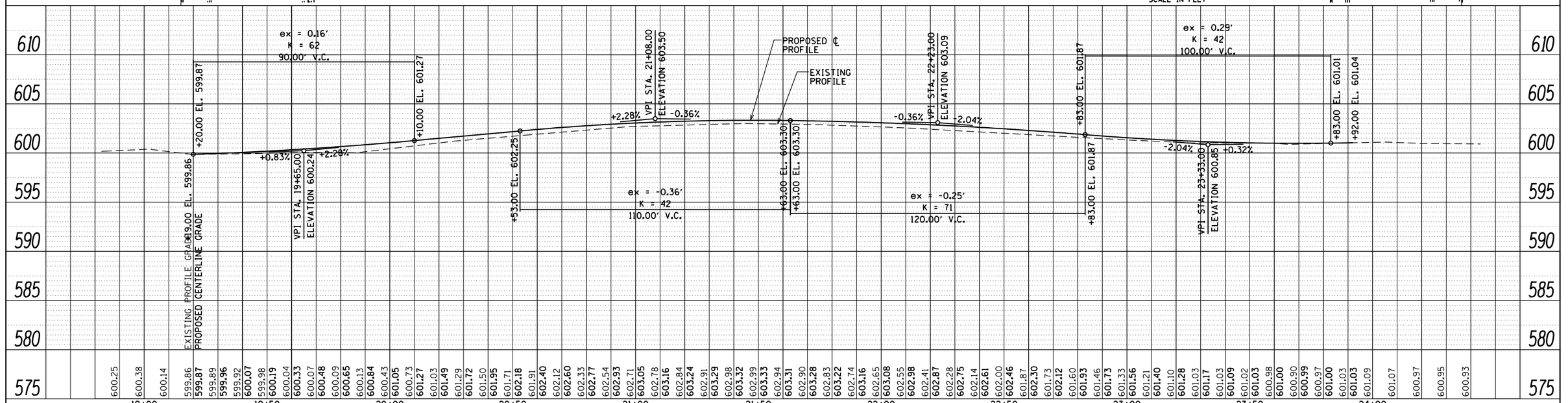
ALL DIMENSIONS ARE TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

SEE CURB RAMP DETAIL AND RESTORATION SHEET FOR CURB AND SIDEWALK DESIGN AND LIMITS.

THE EXISTING APPROACH SLABS TO BE REMOVED ON BOTH ENDS OF THE BRIDGE ARE 40' LONG.

HORIZ. - 1" = 20'
SCALE IN FEET
20 0 20 40 60 80 100

VERT. - 1" = 5'
SCALE IN FEET
0 5 10 15 20 25



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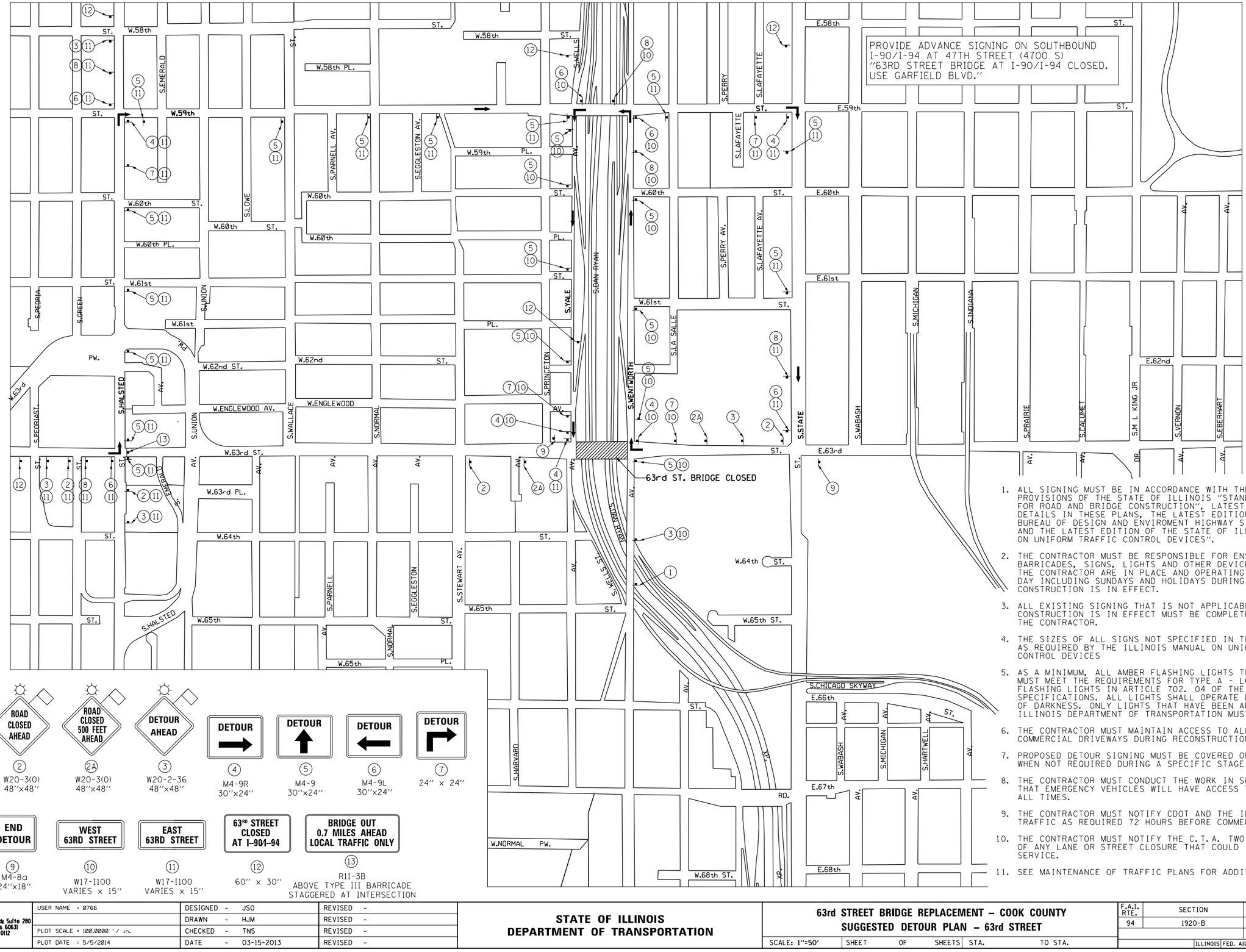
	PLOT DATE = 3/29/2014	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

63rd STREET BRIDGE REPLACEMENT
PLAN & PROFILE

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	117	16
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			



1. ALL SIGNING MUST BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION, THE DETAILS IN THESE PLANS, THE LATEST EDITION OF THE IDOT BUREAU OF DESIGN AND ENVIROMENT HIGHWAY STANDARDS AND THE LATEST EDITION OF THE STATE OF ILLINOIS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
2. THE CONTRACTOR MUST BE RESPONSIBLE FOR ENSURING THAT ALL BARRICADES, SIGNS, LIGHTS AND OTHER DEVICES INSTALLED BY THE CONTRACTOR ARE IN PLACE AND OPERATING 24 HOURS EACH DAY INCLUDING SUNDAYS AND HOLIDAYS DURING THE TIME THIS CONSTRUCTION IS IN EFFECT.
3. ALL EXISTING SIGNING THAT IS NOT APPLICABLE WHILE THE CONSTRUCTION IS IN EFFECT MUST BE COMPLETELY COVERED BY THE CONTRACTOR.
4. THE SIZES OF ALL SIGNS NOT SPECIFIED IN THESE PLANS MUST BE AS REQUIRED BY THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
5. AS A MINIMUM, ALL AMBER FLASHING LIGHTS THAT ARE REQUIRED MUST MEET THE REQUIREMENTS FOR TYPE A - LOW INTENSITY FLASHING LIGHTS IN ARTICLE 702. 04 OF THE STANDARD SPECIFICATIONS. ALL LIGHTS SHALL OPERATE DURING HOURS OF DARKNESS. ONLY LIGHTS THAT HAVE BEEN APPROVED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION MUST BE USED.
6. THE CONTRACTOR MUST MAINTAIN ACCESS TO ALL PRIVATE AND COMMERCIAL DRIVEWAYS DURING RECONSTRUCTION.
7. PROPOSED DETOUR SIGNING MUST BE COVERED OR REMOVED WHEN NOT REQUIRED DURING A SPECIFIC STAGE OF CONSTRUCTION.
8. THE CONTRACTOR MUST CONDUCT THE WORK IN SUCH A MANNER THAT EMERGENCY VEHICLES WILL HAVE ACCESS TO THE AREA AT ALL TIMES.
9. THE CONTRACTOR MUST NOTIFY CDOT AND THE IDOT BUREAU OF TRAFFIC AS REQUIRED 72 HOURS BEFORE COMMENCING CONSTRUCTION.
10. THE CONTRACTOR MUST NOTIFY THE C.T.A. TWO WEEKS IN ADVANCE OF ANY LANE OR STREET CLOSURE THAT COULD IMPACT C.T.A. BUS SERVICE.
11. SEE MAINTENANCE OF TRAFFIC PLANS FOR ADDITIONAL SIGNING.

ROAD CONSTRUCTION AHEAD	ROAD CLOSED AHEAD	ROAD CLOSED 500 FEET AHEAD	DETOUR AHEAD
(1) W20-1103(0)-48 48"x48"	(2) W20-3(0) 48"x48"	(2A) W20-3(0) 48"x48"	(3) W20-2-36 48"x48"

DETOUR	DETOUR	DETOUR	DETOUR
(4) M4-9R 30"x24"	(5) M4-9 30"x24"	(6) M4-9L 30"x24"	(7) 24" x 24"

DETOUR	END DETOUR	WEST 63RD STREET	EAST 63RD STREET	63RD STREET CLOSED AT I-90/I-94	BRIDGE OUT 0.7 MILES AHEAD LOCAL TRAFFIC ONLY
(8) 24" x 24"	(9) M4-8a 24"x18"	(10) W17-1100 VARIES x 15"	(11) W17-1100 VARIES x 15"	(12) 60" x 30"	(13) R11-3B ABOVE TYPE III BARRICADE STAGGERED AT INTERSECTION

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PLOT DATE = 5/5/2014	DATE - 03-15-2013	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

63rd STREET BRIDGE REPLACEMENT – COOK COUNTY
SUGGESTED DETOUR PLAN – 63rd STREET

SCALE: 1"=50' | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	17
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

MAINTAIN ALL "WRONG WAY" AND "DO NOT ENTER" SIGNS DURING ALL STAGES OF CONSTRUCTION.

TRANSITION S. WELLS ST. TO ONE LANE AS PER IDOT STANDARD 701601. DO NOT ALLOW THIRD LANE SOUTH OF VIADUCT TO OPEN UP TO TRAFFIC TO ALLOW FOR EASIER LANE CLOSURE TRANSITIONS.

PLACE LAST BARRIER OR DRUM AT END OF WALL TO PROVIDE MERGING SITE DISTANCE

THE CONTRACTOR SHALL MAINTAIN ALL DO NOT ENTER, WRONG WAY, LEFT/RIGHT PROHIBITION, I-90/94 TRAILBLAZING/DIRECTIONAL SIGNS, AND ANY OTHER NECESSARY SIGNS AT ALL TIMES IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS AND RELOCATE THEM ONTO TEMPORARY SIGN SUPPORTS AT A LOCATION VISIBLE TO TRAFFIC WHEN NECESSARY.

N

SCALE 1" = 50'

W. 63rd ST.

MATCH LINE STA. 14+00

200' 200' 200' 300'

S. WELLS ST.

S. WENTWORTH AVE

S. PRINCETON AVE

S. HARVARD AVE

S. YALE AVE

ONE WAY

160'

233' TAPER

3425+00

1425+00

2425+00

4425+00

TEMPORARY FENCE (SPECIAL)

ENTRANCE TO CTA RED LINE STATION

SIDEWALK ACCESS OPEN

SIDEWALK ACCESS CLOSED

ALL VEHICULAR ACCESS CLOSED

℄ OF 63rd STREET

COLUMN

EXISTING

15+00

20+00

25+00

175'

165' TAPER

ALONG EXISTING MEDIAN LINE

ADJUST SIGNS TO AVOID SIGHT CONFLICT WITH VIADUCT COLUMNS.

176' STORAGE

150' TAPER

300' 200' 200' 200' 200'

STAGE I:

63RD STREET:

1. INSTALL ALL TRAFFIC CONTROL, PAVEMENT MARKING, TAPERS, DRUMS, BARRICADES, SIGNING AND REMOVE CONFLICTING PAVEMENT MARKING. INSTALL TEMPORARY FENCE (SPECIAL). PLACE TEMPORARY TRAFFIC SIGNALS TO STAGE I CONFIGURATION.

2. REMOVE AND RECONSTRUCT SOUTHERN PORTION OF BRIDGE, ABUTMENTS, PIERS, APPROACH PANELS, SIDEWALKS AND RECONSTRUCTED PAVEMENTS. CONSTRUCT PORTIONS OF PERMANENT TRAFFIC SIGNALS AND LIGHTING. RECONSTRUCT 63RD STREET/ WENTWORTH AVE. INTERSECTION AND THE EASTERN PORTION OF THE 63RD STREET/ YALE AVE. INTERSECTION. COORDINATE SHIFTING OF ELECTRICAL CONDUITS.

3. TAPE TEMPORARY PAVEMENT MARKINGS SHALL BE USED ON EXISTING/NEWLY CONSTRUCTED SURFACES. TEMPORARY PAINT SHALL BE USED ON TEMPORARY PAVEMENT OR PAVEMENT TO BE REMOVED.

4. TEMPORARY PAVEMENT MARKING (PAINT) SHALL BE REQUIRED ON ALL TEMPORARY PAVEMENT SURFACES OVER THE WINTER MONTHS. PAINT USED OVER THE WINTER MONTHS IN THE TRANSITION AREAS ON EXISTING SURFACES SHALL BE REMOVED BY GRINDING WHEN THE FINAL PAVEMENT MARKINGS ARE INSTALLED. ON EXPRESSWAYS, EPOXY MARKINGS SHALL BE REQUIRED ON ALL TEMPORARY PAVEMENT SURFACES OVER THE WINTER MONTHS. EPOXY USED OVER THE WINTER IN TRANSITION AREAS AT THE LIMITS OF CONSTRUCTION ON EXISTING SURFACES SHALL BE REMOVED BY GRINDING WHEN FINAL PAVEMENT MARKINGS ARE INSTALLED.

LEGEND:

- STAGE I WORK AREA
- TEMPORARY FENCE (SPECIAL)
- EXISTING PAVEMENT MARKINGS
- PROPOSED PAVEMENT MARKINGS
- (A) - 4" YELLOW LINE
- (B) - 4" DOUBLE YELLOW LINE
- (C) - 6" WHITE LINE
- (D) - 6" WHITE DOTTED LINE (2' DASH 6' SKIP)
- (E) - 4" WHITE LINE
- (F) - 8" WHITE LINE
- (G) - 12" WHITE DIAGONAL LINE
- (H) - 24" WHITE LINE
- ARROW BOARD
- DRUMS OR TYPE II BARRICADES WITH MONO-DIRECTIONAL STEADY BURN LIGHTS IN MULTI-LANE OR ONE WAY SECTIONS AND BI-DIRECTIONAL STEADY BURN LIGHTS IN TWO LANE TWO WAY SECTIONS, SPACED AT 50' C-C IN TANGENT SECTIONS AND 20' C-C IN TAPER SECTIONS AND CORNER RADII PER THE HIGHWAY STANDARDS.
- TRAFFIC DIRECTION
- TYPE III BARRICADE

(1) W20-1103(0)-48 — (2) W1-3L(0)-48 — (3)* W21-1(0)-48 — (4) W1-3R(0)-48 — (5) M6-4(0)-2115 — (6) R10-108P-3618 / R2-I-3648 / R2-1106P-3618 — (7) R1-2-48

(5A) M6-1R-2115

(7A) W3-2(0)-48 — (8) W6-3-48 — (9) W20-5R(0)-48 — (10) W20-5L(0)-48 — (11) W4-1(R)-48 — (12) G20-1103(0)-3660 — (13) R1-1 — (14) R6-2R(0)-48

(15) R5-1 — (16) R3-2-24 — (17) W1-6L-4824 — (18) R3-5R-30 — (19) W1-6R-4824 ABOVE TY III BARRICADE

* - "WORKERS" SIGN TO BE DISPLAYED ONLY WHEN WORKERS ARE PRESENT

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USER NAME = 0766	DESIGNED - JSO	REVISED -
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PLOT DATE = 5/5/2014	DATE - 03-15-2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

63rd STREET BRIDGE REPLACEMENT – COOK COUNTY
SUGGESTED MAINTENANCE OF TRAFFIC – 63rd STREET – STAGE I

SCALE: 1"=50' | SHEET OF SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	18
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

MAINTAIN ALL "WRONG WAY" AND "DO NOT ENTER" SIGNS DURING ALL STAGES OF CONSTRUCTION.

TRANSITION S. WELLS ST. TO ONE LANE AS PER IDOT STANDARD 701601. DO NOT ALLOW THIRD LANE SOUTH OF VIADUCT TO OPEN UP TO TRAFFIC TO ALLOW FOR EASIER LANE CLOSURE TRANSITIONS.

PLACE LAST BARRIER OR DRUM AT END OF WALL TO PROVIDE MERGING SITE DISTANCE

THE CONTRACTOR SHALL MAINTAIN ALL DO NOT ENTER, WRONG WAY, LEFT/RIGHT PROHIBITION, I-90/94 TRAILBLAZING/DIRECTIONAL SIGNS, AND ANY OTHER NECESSARY SIGNS AT ALL TIMES IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS AND RELOCATE THEM ONTO TEMPORARY SIGN SUPPORTS AT A LOCATION VISIBLE TO TRAFFIC WHEN NECESSARY.

N

SCALE 1" = 50'

W. 63rd ST.

135' TAPER

200' 200' 200' 300'

MATCH LINE STA. 14+00

315' TAPER

158'

S. WELLS ST

ONE WAY

3425+00

1425+00

2425+00

4425+00

S. WENTWORTH AVE

ONE WAY

S. PRINCETON AVE

TEMPORARY FENCE (SPECIAL)

ENTRANCE TO CTA RED LINE STATION

SIDEWALK ACCESS OPEN

175'

165' TAPER

300' 200' 200' 200'

170'

15+00

20+00

25+00

W. 63rd ST

COLUMN

EXISTING

OVER TY III BARRICADE

GAS STATION

SIDEWALK ACCESS CLOSED

ALL VEHICULAR ACCESS CLOSED

℄ OF 63rd STREET

ALONG EXISTING MEDIAN LINE

ADJUST SIGNS TO AVOID SIGHT CONFLICT WITH VIADUCT COLUMNS.

S. HARVARD AVE

S. YALE AVE

ONE WAY

176' STORAGE

150' TAPER

300' 200' 200' 200'

STAGE IA:

63RD STREET:

1. IN STAGE IA RECONSTRUCT WEST PORTION OF THE 63RD STREET/YALE AVE. INTERSECTION TO THE LIMITS SHOWN. CONSTRUCT PORTIONS OF PERMANENT TRAFFIC SIGNALS. ADJUST TEMPORARY PAVEMENT MARKINGS, BARRIERS AND SIGNING FOR YALE AVE. AND 63RD ST. WEST OF YALE. CONTINUE BRIDGE AND OTHER ROADWAY WORK FROM STAGE I.

2. STAGE IA PRIMARILY DIFFERS FROM STAGE I IN THAT THE CONTRACTOR CONSTRUCTS THE SOUTHWEST PORTION OF THE 63RD/YALE INTERSCTION IN STAGE IA WHILE THE EAST PORTION IS CONSTRUCTED IN STAGE I. THE CONTRACTOR SHALL MINIMIZE THE AMOUNT OF TIME THE EASTBOUND 63RD ST. RIGHT TURN LANE IS NOT IN USE AND ADJACENT GAS STATION IS AFFECTED.

3. TAPE TEMPORARY PAVEMENT MARKINGS SHALL BE USED ON EXISTING/NEWLY CONSTRUCTED SURFACES. TEMPORARY PAINT SHALL BE USED ON TEMPORARY PAVEMENT OR PAVEMENT TO BE REMOVED.

4. TEMPORARY PAVEMENT MARKING (PAINT) SHALL BE REQUIRED ON ALL TEMPORARY PAVEMENT SURFACES OVER THE WINTER MONTHS. PAINT USED OVER THE WINTER MONTHS IN THE TRANSITION AREAS ON EXISTING SURFACES SHALL BE REMOVED BY GRINDING WHEN THE FINAL PAVEMENT MARKINGS ARE INSTALLED. ON EXPRESSWAYS, EPOXY MARKINGS SHALL BE REQUIRED ON ALL TEMPORARY PAVEMENT SURFACES OVER THE WINTER MONTHS. EPOXY USED OVER THE WINTER IN TRANSITION AREAS AT THE LIMITS OF CONSTRUCTION ON EXISTING SURFACES SHALL BE REMOVED BY GRINDING WHEN FINAL PAVEMENT MARKINGS ARE INSTALLED.

LEGEND:

- STAGE IA WORK AREA
- TEMPORARY FENCE (SPECIAL)
- EXISTING PAVEMENT MARKINGS
- PROPOSED PAVEMENT MARKINGS
- (A) - 4" YELLOW LINE
- (B) - 4" DOUBLE YELLOW LINE
- (C) - 6" WHITE LINE
- (D) - 6" WHITE DOTTED LINE (2' DASH 6' SKIP)
- (E) - 4" WHITE LINE
- (F) - 8" WHITE LINE
- (G) - 12" WHITE DIAGONAL LINE
- (H) - 24" WHITE LINE
- ARROW BOARD
- DRUMS OR TYPE II BARRICADES WITH MONO-DIRECTIONAL STEADY BURN LIGHTS IN MULTI-LANE OR ONE WAY SECTIONS AND BI-DIRECTIONAL STEADY BURN LIGHTS IN TWO LANE TWO WAY SECTIONS, SPACED AT 50' C-C IN TANGENT SECTIONS AND 20' C-C IN TAPER SECTIONS AND CORNER RADII PER THE HIGHWAY STANDARDS.
- TRAFFIC DIRECTION
- TYPE III BARRICADE

(1) W20-I103(0)-48 — (2) W1-3L(0)-48 — (3)* W21-1(0)-48 — (4) W1-3R(0)-48 — (5) M6-4(0)-2115 — (6) W2-I115(0)-3618, R2-I-3648, R10-108P-3618, R2-I106P-3618 — (7) R1-2-48

(7A) W3-2(0)-48 — (8) W6-3-48 — (9) W20-5R(0)-48 — (10) W20-5L(0)-48 — (11) W4-1(R)-48 — (12) G20-I103(0)-3660 — (13) R1-1 — (14) R6-2R(0)-48

(15) R5-1 — (16) R3-2-24 — (17) W1-6L-4824 — (18) R3-5R-30 — (19) W1-6R-4824 ABOVE TY III BARRICADE

(5A) M6-1R-2115

* - "WORKERS" SIGN TO BE DISPLAYED ONLY WHEN WORKERS ARE PRESENT

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

63rd STREET BRIDGE REPLACEMENT – COOK COUNTY
SUGGESTED MAINTENANCE OF TRAFFIC – 63rd STREET – STAGE IA

SCALE: 1"=50' | SHEET OF SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	19
		CONTRACT NO. 60J15		
		ILLINOIS FED. AID PROJECT		

MAINTAIN ALL "WRONG WAY" AND "DO NOT ENTER" SIGNS DURING ALL STAGES OF CONSTRUCTION.

TRANSITION S. WELLS ST. TO ONE LANE AS PER IDOT STANDARD 701601. DO NOT ALLOW THIRD LANE SOUTH OF VIADUCT TO OPEN UP TO TRAFFIC TO ALLOW FOR EASIER LANE CLOSURE TRANSITIONS.

PLACE LAST BARRIER OR DRUM AT END OF WALL TO PROVIDE MERGING SITE DISTANCE

THE CONTRACTOR SHALL MAINTAIN ALL DO NOT ENTER, WRONG WAY, LEFT/RIGHT PROHIBITION, I-90/94 TRAILBLAZING/DIRECTIONAL SIGNS, AND ANY OTHER NECESSARY SIGNS AT ALL TIMES IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS AND RELOCATE THEM ONTO TEMPORARY SIGN SUPPORTS AT A LOCATION VISIBLE TO TRAFFIC WHEN NECESSARY.

N

SCALE
1" = 50'

W. 63rd ST.

MATCH LINE STA. 14+00

200' 200' 200' 300'

S. PRINCETON AVE

S. WELLS ST.

S. WENTWORTH AVE

S. HARVARD AVE

S. YALE AVE

ONE WAY

315' TAPER

158'

3425+00

1425+00

2425+00

4425+00

TEMP. RAMP

TEMPORARY FENCE (SPECIAL)

SIDEWALK ACCESS OPEN

ENTRANCE TO CTA RED LINE STATION

CONSTRUCTION ZONE

ON TY III BARRICADE

COLUMN

EXISTING

15+00

20+00

25+00

320'

99'

175'

165' TAPER

300' 200' 200' 200'

ALONG EXISTING MEDIAN LINE

SIDEWALK ACCESS CLOSED

ALL VEHICULAR ACCESS CLOSED

℄ OF 63rd STREET

176' STORAGE

150' TAPER

ADJUST SIGNS TO AVOID SIGHT CONFLICT WITH VIADUCT COLUMNS.

STAGE IB:

63RD STREET:

1. IN STAGE IB RECONSTRUCT WEST PORTION OF THE 63RD STREET/YALE AVE. INTERSECTION TO THE LIMITS SHOWN. CONSTRUCT PORTIONS OF PERMANENT TRAFFIC SIGNALS. ADJUST TEMPORARY PAVEMENT MARKINGS, BARRIERS AND SIGNING FOR YALE AVE., AND 63RD ST. WEST OF YALE. CONTINUE BRIDGE AND OTHER ROADWAY WORK FROM STAGE I.

2. STAGE IB PRIMARILY DIFFERS FROM STAGE I IN THAT THE CONTRACTOR CONSTRUCTS THE NORTHWEST PORTION OF THE 63RD/YALE INTERSCTION IN STAGE IB WHILE THE EAST PORTION IS CONSTRUCTED IN STAGE I. IF THE STAGE I BRIDGE WORK ISN'T FINISHED WHEN THE STAGE IB PAVEMENT AND RELATED APPURTANENCES ARE FINALIZED, THE STRIPING, SIGNING AND BARRIERS SHALL BE RETURNED TO THE STAGE I LAYOUT, MOST ESPECIALLY REINSTATING THE 63RD ST. WESTBOUND LANES ON THE NORTH SIDE OF THE MEDIAN WEST OF YALE.

3. TAPE TEMPORARY PAVEMENT MARKINGS SHALL BE USED ON EXISTING/NEWLY CONSTRUCTED SURFACES. TEMPORARY PAINT SHALL BE USED ON TEMPORARY PAVEMENT OR PAVEMENT TO BE REMOVED.

4. TEMPORARY PAVEMENT MARKING (PAINT) SHALL BE REQUIRED ON ALL TEMPORARY PAVEMENT SURFACES OVER THE WINTER MONTHS. PAINT USED OVER THE WINTER MONTHS IN THE TRANSITION AREAS ON EXISTING SURFACES SHALL BE REMOVED BY GRINDING WHEN THE FINAL PAVEMENT MARKINGS ARE INSTALLED. ON EXPRESSWAYS, EPOXY MARKINGS SHALL BE REQUIRED ON ALL TEMPORARY PAVEMENT SURFACES OVER THE WINTER MONTHS. EPOXY USED OVER THE WINTER IN TRANSITION AREAS AT THE LIMITS OF CONSTRUCTION ON EXISTING SURFACES SHALL BE REMOVED BY GRINDING WHEN FINAL PAVEMENT MARKINGS ARE INSTALLED.

LEGEND:

- STAGE IB WORK AREA
- TEMPORARY FENCE (SPECIAL)
- EXISTING PAVEMENT MARKINGS
- PROPOSED PAVEMENT MARKINGS
- (A) - 4" YELLOW LINE
- (B) - 4" DOUBLE YELLOW LINE
- (C) - 6" WHITE LINE
- (D) - 6" WHITE DOTTED LINE (2' DASH 6' SKIP)
- (E) - 4" WHITE LINE
- (F) - 8" WHITE LINE
- (G) - 12" WHITE DIAGONAL LINE
- (H) - 24" WHITE LINE
- ARROW BOARD
- DRUMS OR TYPE II BARRICADES WITH MONO-DIRECTIONAL STEADY BURN LIGHTS IN MULTI-LANE OR ONE WAY SECTIONS AND BI-DIRECTIONAL STEADY BURN LIGHTS IN TWO LANE TWO WAY SECTIONS, SPACED AT 50' C-C IN TANGENT SECTIONS AND 20' C-C IN TAPER SECTIONS AND CORNER RADII PER THE HIGHWAY STANDARDS.
- TRAFFIC DIRECTION
- TYPE III BARRICADE

(1) W20-I103(0)-48 — ROAD CONSTRUCTION AHEAD
(2) W1-3L(0)-48
(3)* W21-1(0)-48
(4) W1-3R(0)-48
(5) M6-4(0)-2115
(6) W2-I115(0)-3618 — WORK ZONE; R2-I-3648 — SPEED LIMIT 30; R10-108P-3618 — PHOTO ENFORCED; R2-I106P-3618 — $375 FINE MINIMUM
(7) R1-2-48 — YIELD
(5A) M6-1R-2115
(7A) W3-2(0)-48
(8) W6-3-48
(9) W20-5R(0)-48 — RIGHT LANE CLOSED AHEAD
(10) W20-5L(0)-48 — LEFT LANE CLOSED AHEAD
(11) W4-1(R)-48
(12) G20-I103(0)-3660 — END WORK ZONE SPEED LIMIT
(13) R1-1 — STOP
(14) R6-2R(0)-48 — ONE WAY
(15) R5-1 — DO NOT ENTER
(16) R3-2-24
(17) W1-6L-4824
(18) R3-5R-30 — ONLY
(19) W1-6R-4824 ABOVE TY III BARRICADE

* - "WORKERS" SIGN TO BE DISPLAYED ONLY WHEN WORKERS ARE PRESENT

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USER NAME = 0766	DESIGNED - JSO	REVISED -
	DRAWN - HJM	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - TNS	REVISED -
PLOT DATE = 5/5/2014	DATE - 03-15-2013	REVISED -

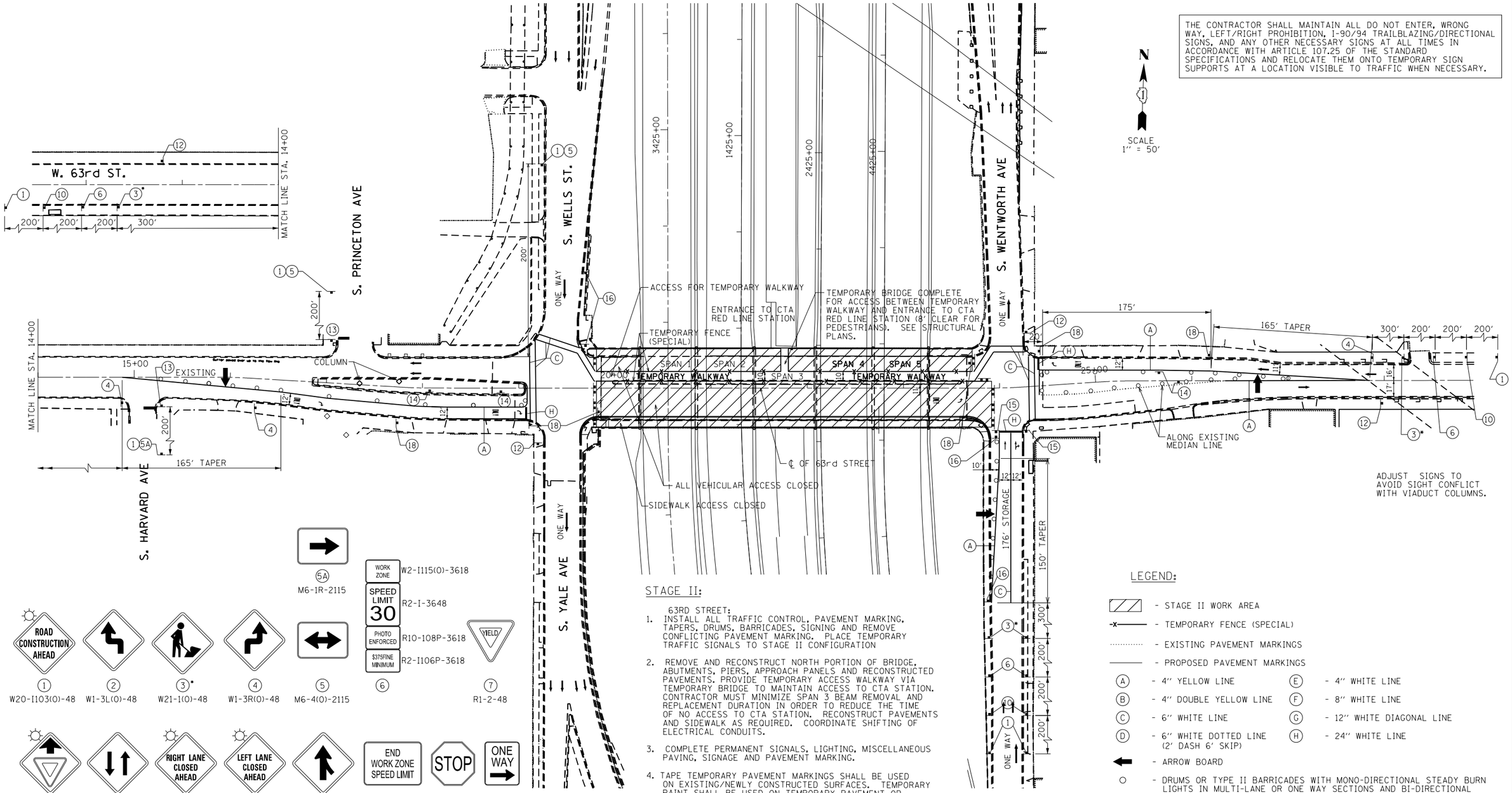
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

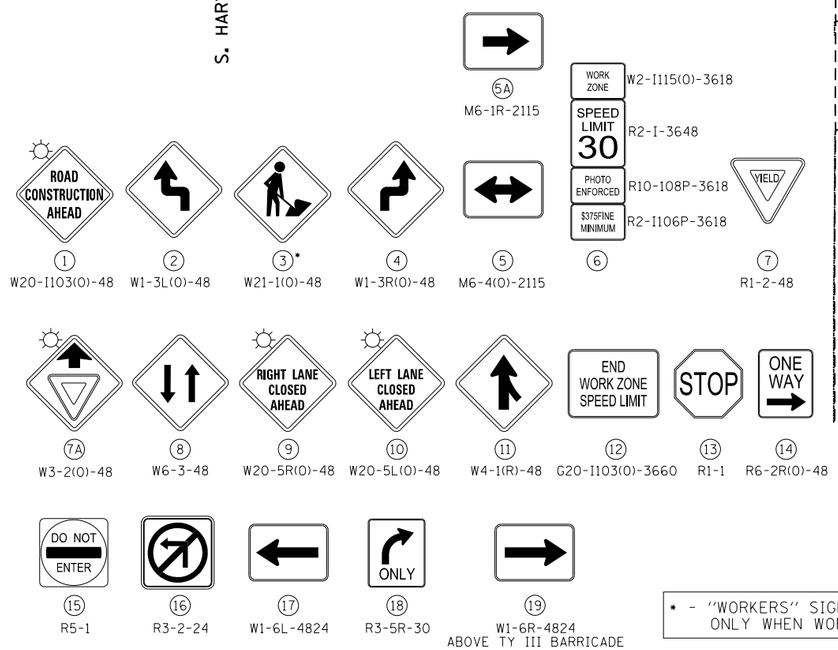
63rd STREET BRIDGE REPLACEMENT – COOK COUNTY
SUGGESTED MAINTENANCE OF TRAFFIC – 63rd STREET – STAGE IB

SCALE: 1"=50' | SHEET OF SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	20
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

THE CONTRACTOR SHALL MAINTAIN ALL DO NOT ENTER, WRONG WAY, LEFT/RIGHT PROHIBITION, I-90/94 TRAILBLAZING/DIRECTIONAL SIGNS, AND ANY OTHER NECESSARY SIGNS AT ALL TIMES IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS AND RELOCATE THEM ONTO TEMPORARY SIGN SUPPORTS AT A LOCATION VISIBLE TO TRAFFIC WHEN NECESSARY.





1 W20-I103(0)-48
2 W1-3L(0)-48
3* W21-1(0)-48
4 W1-3R(0)-48
5 M6-4(0)-2115
5A M6-1R-2115
6 W2-I115(0)-3618, R2-I-3648, R10-108P-3618, R2-I106P-3618
7 R1-2-48
7A W3-2(0)-48
8 W6-3-48
9 W20-5R(0)-48
10 W20-5L(0)-48
11 W4-1(R)-48
12 G20-I103(0)-3660
13 R1-1
14 R6-2R(0)-48
15 R5-1
16 R3-2-24
17 W1-6L-4824
18 R3-5R-30
19 W1-6R-4824 ABOVE TY III BARRICADE

* - ''WORKERS'' SIGN TO BE DISPLAYED ONLY WHEN WORKERS ARE PRESENT

STAGE II:

63RD STREET:

1. INSTALL ALL TRAFFIC CONTROL, PAVEMENT MARKING, TAPERS, DRUMS, BARRICADES, SIGNING AND REMOVE CONFLICTING PAVEMENT MARKING. PLACE TEMPORARY TRAFFIC SIGNALS TO STAGE II CONFIGURATION
2. REMOVE AND RECONSTRUCT NORTH PORTION OF BRIDGE, ABUTMENTS, PIERS, APPROACH PANELS AND RECONSTRUCTED PAVEMENTS. PROVIDE TEMPORARY ACCESS WALKWAY VIA TEMPORARY BRIDGE TO MAINTAIN ACCESS TO CTA STATION. CONTRACTOR MUST MINIMIZE SPAN 3 BEAM REMOVAL AND REPLACEMENT DURATION IN ORDER TO REDUCE THE TIME OF NO ACCESS TO CTA STATION. RECONSTRUCT PAVEMENTS AND SIDEWALK AS REQUIRED. COORDINATE SHIFTING OF ELECTRICAL CONDUITS.
3. COMPLETE PERMANENT SIGNALS, LIGHTING, MISCELLANEOUS PAVING, SIGNAGE AND PAVEMENT MARKING.
4. TAPE TEMPORARY PAVEMENT MARKINGS SHALL BE USED ON EXISTING/NEWLY CONSTRUCTED SURFACES. TEMPORARY PAINT SHALL BE USED ON TEMPORARY PAVEMENT OR PAVEMENT TO BE REMOVED.
5. TEMPORARY PAVEMENT MARKING (PAINT) SHALL BE REQUIRED ON ALL TEMPORARY PAVEMENT SURFACES OVER THE WINTER MONTHS. PAINT USED OVER THE WINTER MONTHS IN THE TRANSITION AREAS ON EXISTING SURFACES SHALL BE REMOVED BY GRINDING WHEN THE FINAL PAVEMENT MARKINGS ARE INSTALLED. ON EXPRESSWAYS, EPOXY MARKINGS SHALL BE REQUIRED ON ALL TEMPORARY PAVEMENT SURFACES OVER THE WINTER MONTHS. EPOXY USED OVER THE WINTER IN TRANSITION AREAS AT THE LIMITS OF CONSTRUCTION ON EXISTING SURFACES SHALL BE REMOVED BY GRINDING WHEN FINAL PAVEMENT MARKINGS ARE INSTALLED.

LEGEND:

- STAGE II WORK AREA
- TEMPORARY FENCE (SPECIAL)
- EXISTING PAVEMENT MARKINGS
- PROPOSED PAVEMENT MARKINGS
- (A) - 4'' YELLOW LINE
- (B) - 4'' DOUBLE YELLOW LINE
- (C) - 6'' WHITE LINE
- (D) - 6'' WHITE DOTTED LINE (2' DASH 6' SKIP)
- (E) - 4'' WHITE LINE
- (F) - 8'' WHITE LINE
- (G) - 12'' WHITE DIAGONAL LINE
- (H) - 24'' WHITE LINE
- ARROW BOARD
- DRUMS OR TYPE II BARRICADES WITH MONO-DIRECTIONAL STEADY BURN LIGHTS IN MULTI-LANE OR ONE WAY SECTIONS AND BI-DIRECTIONAL STEADY BURN LIGHTS IN TWO LANE TWO WAY SECTIONS, SPACED AT 50' C-C IN TANGENT SECTIONS AND 20' C-C IN TAPER SECTIONS AND CORNER RADII PER THE HIGHWAY STANDARDS.
- TRAFFIC DIRECTION
- TYPE III BARRICADE

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PLOT DATE = 5/5/2014	DATE - 03-15-2013	REVISED -

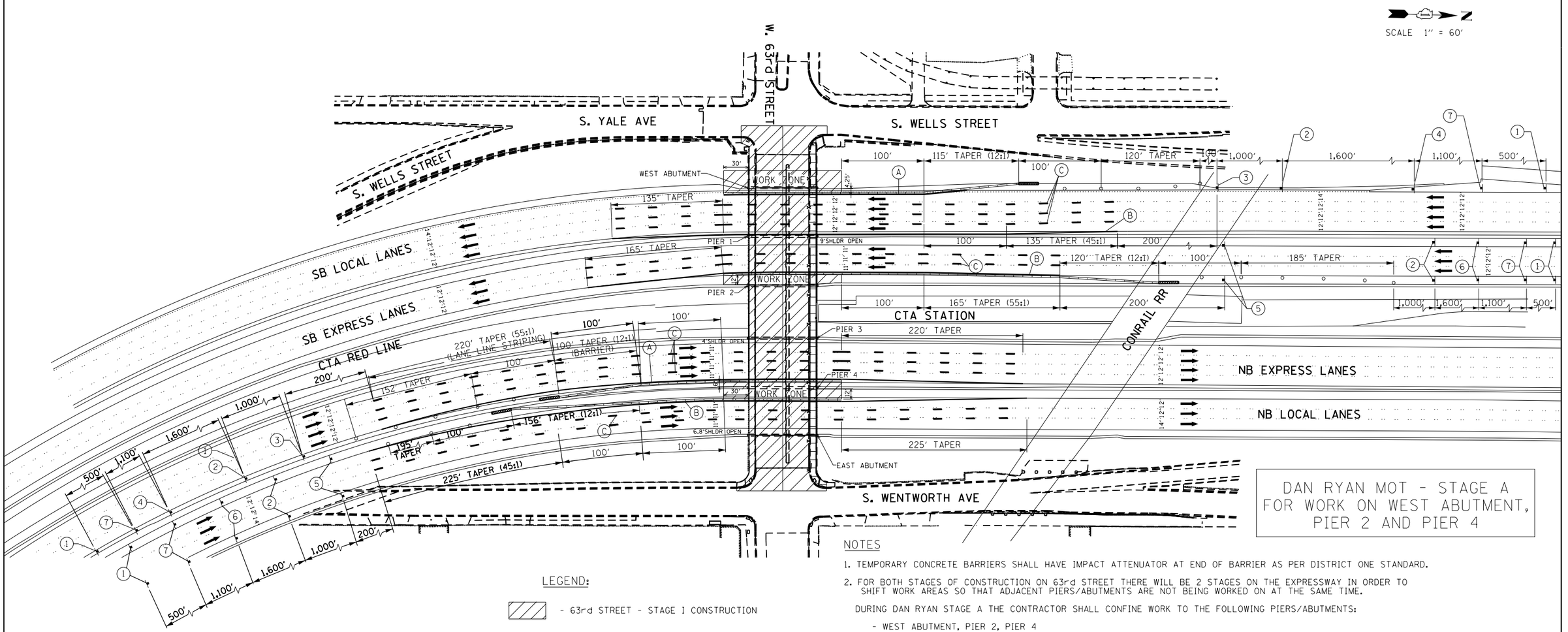
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

63rd STREET BRIDGE REPLACEMENT – COOK COUNTY
SUGGESTED MAINTENANCE OF TRAFFIC – 63rd STREET – STAGE II

SCALE: 1''=50' | SHEET OF SHEETS | STA. | TO STA.

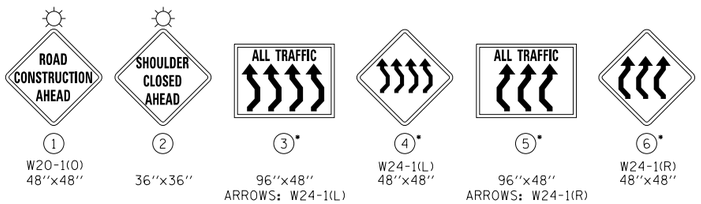
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	21
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

SCALE 1" = 60'



LEGEND:

- 63rd STREET - STAGE I CONSTRUCTION
- 63rd STREET - STAGE II CONSTRUCTION
- TEMPORARY CONCRETE BARRIER
- EXISTING PAVEMENT MARKINGS
- TEMPORARY PAVEMENT MARKINGS
- (A) - 4" WHITE EDGE LINE (RIGHT)
- (B) - 4" YELLOW EDGE LINE (LEFT)
- (C) - 5" WHITE SKIP DASH LANE LINES (10' DASH, 30' SKIP)
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' C-C IN TAPERS AND 100' C-C IN TANGENTS OR TYPE II BARRICADE
- IMPACT ATTENUATOR, TEMPORARY (FULLY REDIRECTIVE, NARROW) TEST LEVEL 3 (ZO030260)
- TRAFFIC DIRECTION
- TYPE III BARRICADE



①	W20-1(O) 48"x48"
②	36"x36"
③*	96"x48" ARROWS: W24-1(L)
④*	W24-1(L) 48"x48"
⑤*	96"x48" ARROWS: W24-1(R)
⑥*	W24-1(R) 48"x48"
	W2-I15(O)-3618
	R2-I-3648
	R10-19OP-3618
	R2-I106-3618
⑦	

*NUMBER OF ARROWS SHALL MATCH NUMBER OF LANES OPEN TO TRAFFIC

NOTES

1. TEMPORARY CONCRETE BARRIERS SHALL HAVE IMPACT ATTENUATOR AT END OF BARRIER AS PER DISTRICT ONE STANDARD.
2. FOR BOTH STAGES OF CONSTRUCTION ON 63rd STREET THERE WILL BE 2 STAGES ON THE EXPRESSWAY IN ORDER TO SHIFT WORK AREAS SO THAT ADJACENT PIERS/ABUTMENTS ARE NOT BEING WORKED ON AT THE SAME TIME.

   DURING DAN RYAN STAGE A THE CONTRACTOR SHALL CONFINE WORK TO THE FOLLOWING PIERS/ABUTMENTS:

   - WEST ABUTMENT, PIER 2, PIER 4

   SEE FOLLOWING SHEET FOR DAN RYAN STAGE B.
3. DURING BOTH STAGES OF 63rd STREET BRIDGE SUPERSTRUCTURE CONSTRUCTION, SWITCH DAN RYAN MOT BETWEEN DAN RYAN STAGE A AND STAGE B AS NEEDED DEPENDING ON PIER REMOVAL AND CONSTRUCTION.
4. THE DAN RYAN SHOULDERS HAVE RECESSED RUMBLE STRIPS. PRIOR TO SHIFTING TRAFFIC ONTO SHOULDERS, THE RUMBLE STRIPS WILL BE TEMPOARILY FILLED IN WITH A TEMPORARY COLD MIX PATCH UNDER THE ITEM PARTIAL DEPTH PATCHING, WHICH SHALL BE MAINTAINED UNTIL TRAFFIC IS SHIFTED OFF THE SHOULDER. THE TEMPORARY PATCHING SHALL THEN BE REMOVED, AND THE RUMBLE STRIPS REESTABLISHED.
5. USE APPLICABLE PORTIONS OF IDOT DISTRICT ONE STANDARDS: "TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE" (TC-09) AND "TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES" (TC-17).

   ALSO USE IDOT STANDARD "APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY" (701400) FOR SIGNING IN ADVANCE OF WHAT IS SHOWN ON THESE PLANS.
6. ALL EXISTING PAVEMENT MARKINGS REMOVED DUE TO TRAFFIC CONTROL SHALL BE REPLACED IN KIND AS DIRECTED BY THE ENGINEER.
7. FOR THE REMOVAL OF EXISTING PAVEMENT MARKING AND PLACEMENT OF TEMPORARY AND PERMANENT PAVEMENT MARKING, USE IDOT DISTRICT ONE STANDARD: "MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS" (TC-12), MODIFIED AS DIRECTED BY THE ENGINEER.
8. FOR NIGHTIME LANE CLOSURES, USE APPLICABLE PORTIONS OF IDOT STANDARD 701401 AND DISTRICT ONE STANDARDS TC-9 AND TC-17. ALSO ADHERE TO THE SPECIFICATIONS OF DISTRICT ONE SPECIAL PROVISION "KEEPING THE EXPRESSWAY OPEN TO TRAFFIC" (9010001), LATEST EDITION.
9. WORK IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE PAID FOR AS "TRAFFIC CONTROL AND PROTECTION (EXPRESSWAY)", LUMP SUM.
10. TAPE TEMPORARY PAVEMENT MARKINGS SHALL BE USED ON EXISTING/NEWLY CONSTRUCTED SURFACES. TEMPORARY PAINT SHALL BE USED ON TEMPORARY PAVEMENT OR PAVEMENT TO BE REMOVED.
11. TEMPORARY PAVEMENT MARKING (PAINT) SHALL BE REQUIRED ON ALL TEMPORARY PAVEMENT SURFACES OVER THE WINTER MONTHS. PAINT USED OVER THE WINTER MONTHS IN THE TRANSITION AREAS ON EXISTING SURFACES SHALL BE REMOVED BY GRINDING WHEN THE FINAL PAVEMENT MARKINGS ARE INSTALLED. ON EXPRESSWAYS, EPOXY MARKINGS SHALL BE REQUIRED ON ALL TEMPORARY PAVEMENT SURFACES OVER THE WINTER MONTHS. EPOXY USED OVER THE WINTER IN TRANSITION AREAS AT THE LIMITS OF CONSTRUCTION ON EXISTING SURFACES SHALL BE REMOVED BY GRINDING WHEN FINAL PAVEMENT MARKINGS ARE INSTALLED.

DAN RYAN MOT - STAGE A FOR WORK ON WEST ABUTMENT, PIER 2 AND PIER 4

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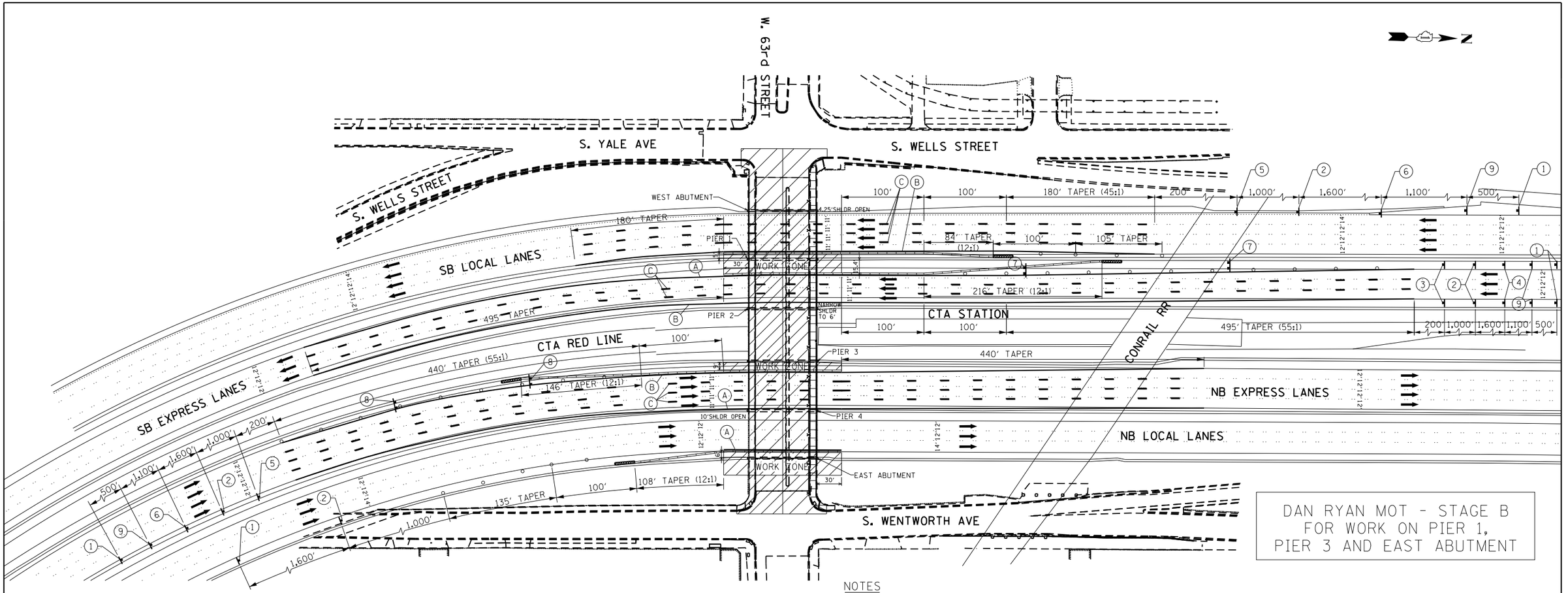
PLOT SCALE = 120.0001 ' / in.	CHECKED - TNS	REVISED -	
PLOT DATE = 3/29/2014	DATE - 03-15-2013	REVISED -	

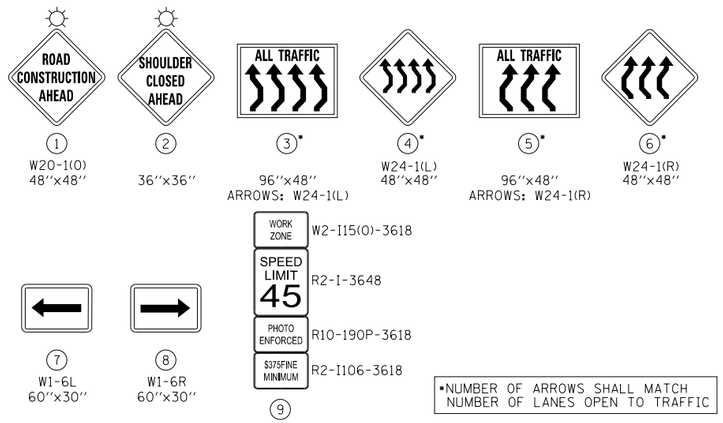
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

63rd STREET BRIDGE REPLACEMENT – COOK COUNTY
SUGGESTEDMAINTENANCE OF TRAFFIC DAN RYAN EXPWY – STAGE A

SCALE: 1"=60' | SHEET OF SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	22
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			





① W20-1(O) 48"x48"
② 36"x36"
③* 96"x48" ARROWS: W24-1(L)
④* W24-1(L) 48"x48"
⑤* 96"x48" ARROWS: W24-1(R)
⑥* W24-1(R) 48"x48"
⑦ W1-6L 60"x30"
⑧ W1-6R 60"x30"
⑨ W2-I15(O)-3618, R2-I-3648, R10-190P-3618, R2-I106-3618

*NUMBER OF ARROWS SHALL MATCH NUMBER OF LANES OPEN TO TRAFFIC

LEGEND:

- 63rd STREET - STAGE I CONSTRUCTION
- 63rd STREET - STAGE II CONSTRUCTION
- TEMPORARY CONCRETE BARRIER
- EXISTING PAVEMENT MARKINGS
- TEMPORARY PAVEMENT MARKINGS
- (A) 4" WHITE EDGE LINE (RIGHT)
- (B) 4" YELLOW EDGE LINE (LEFT)
- (C) 5" WHITE SKIP DASH LANE LINES (10' DASH, 30' SKIP)
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' C-C IN TAPERS AND 100' C-C IN TANGENTS OR TYPE II BARRICADE
- IMPACT ATTENUATOR, TEMPORARY (FULLY REDIRECTIVE, NARROW) TEST LEVEL 3 (ZO030260)
- TRAFFIC DIRECTION
- TYPE III BARRICADE

NOTES

1. TEMPORARY CONCRETE BARRIERS SHALL HAVE IMPACT ATTENUATOR AT END OF BARRIER AS PER DISTRICT ONE STANDARD.
2. FOR BOTH STAGES OF CONSTRUCTION ON 63rd STREET THERE WILL BE 2 STAGES ON TH EXPRESSWAY IN ORDER TO SHIFT WORK AREAS SO THAT ADJACENT PIERS/ABUTMENTS ARE NOT BEING WORKED ON AT THE SAME TIME.

   DURING DAN RYAN STAGE B THE CONTRACTOR SHALL CONFINE WORK TO THE FOLLOWING PIERS/ABUTMENTS:

   - PIER 1, PIER 3, EAST ABUTMENT

   SEE PREVIOUS SHEET FOR DAN RYAN STAGE A.
3. DURING BOTH STAGES OF 63rd STREET BRIDGE SUPERSTRUCTURE CONSTRUCTION, SWITCH DAN RYAN MOT BETWEEN DAN RYAN STAGE A AND STAGE B AS NEEDED DEPENDING ON PIER REMOVAL AND CONSTRUCTION.
4. USE APPLICABLE PORTIONS OF IDOT DISTRICT ONE STANDARDS: "TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE" (TC-09) AND "TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES" (TC-17).

   ALSO USE IDOT STANDARD "APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY" (701400) FOR SIGNING IN ADVANCE OF WHAT IS SHOWN ON THESE PLANS.
5. ALL EXISTING PAVEMENT MARKINGS REMOVED DUE TO TRAFFIC CONTROL SHALL BE REPLACED IN KIND AS DIRECTED BY THE ENGINEER.
6. FOR THE REMOVAL OF EXISTING PAVEMENT MARKING AND PLACEMENT OF TEMPORARY AND PERMANENT PAVEMENT MARKING, USE IDOT DISTRICT ONE STANDARD: "MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS" (TC-12), MODIFIED AS DIRECTED BY THE ENGINEER.
7. FOR NIGHTIME LANE CLOSURES, USE APPLICABLE PORTIONS OF IDOT STANDARD 701401 AND DISTRICT ONE STANDARDS TC-09 AND TC-12. ALSO ADHERE TO THE SPECIFICATIONS OF DISTRICT ONE SPECIAL PROVISION "KEEPING THE EXPRESSWAY OPEN TO TRAFFIC" (9010001) LATEST EDITION.
8. WORK IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARDS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE PAID FOR AS "TRAFFIC CONTROL AND PROTECTION (EXPRESSWAY)", LUMP SUM.
9. TAPE TEMPORARY PAVEMENT MARKINGS SHALL BE USED ON EXISTING/NEWLY CONSTRUCTED SURFACES. TEMPORARY PAINT SHALL BE USED ON TEMPORARY PAVEMENT OR PAVEMENT TO BE REMOVED.
10. TEMPORARY PAVEMENT MARKING (PAINT) SHALL BE REQUIRED ON ALL TEMPORARY PAVEMENT SURFACES OVER THE WINTER MONTHS. PAINT USED OVER THE WINTER MONTHS IN THE TRANSITION AREAS ON EXISTING SURFACES SHALL BE REMOVED BY GRINDING WHEN THE FINAL PAVEMENT MARKINGS ARE INSTALLED. ON EXPRESSWAYS, EPOXY MARKINGS SHALL BE REQUIRED ON ALL TEMPORARY PAVEMENT SURFACES OVER THE WINTER MONTHS. EPOXY USED OVER THE WINTER IN TRANSITION AREAS AT THE LIMITS OF CONSTRUCTION ON EXISTING SURFACES SHALL BE REMOVED BY GRINDING WHEN FINAL PAVEMENT MARKINGS ARE INSTALLED.

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PLOT DATE = 3/29/2014	DATE - 03-15-2013	REVISED -	

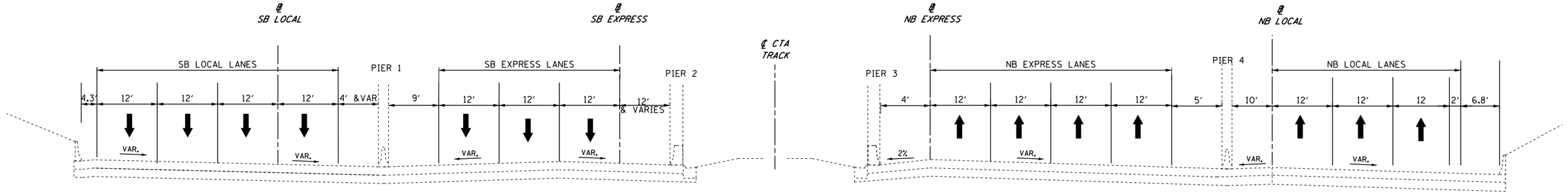
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

63rd STREET BRIDGE REPLACEMENT – COOK COUNTY
SUGGESTED MAINTENANCE OF TRAFFIC DAN RYAN EXPWY – STAGE B

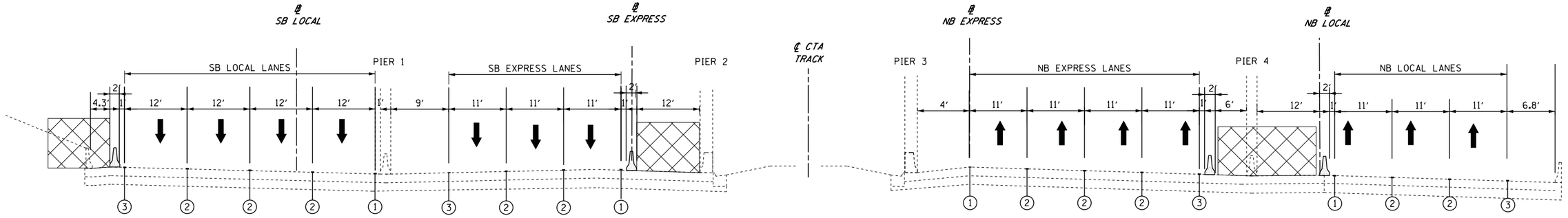
SCALE: 1"=60' | SHEET OF SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	23
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

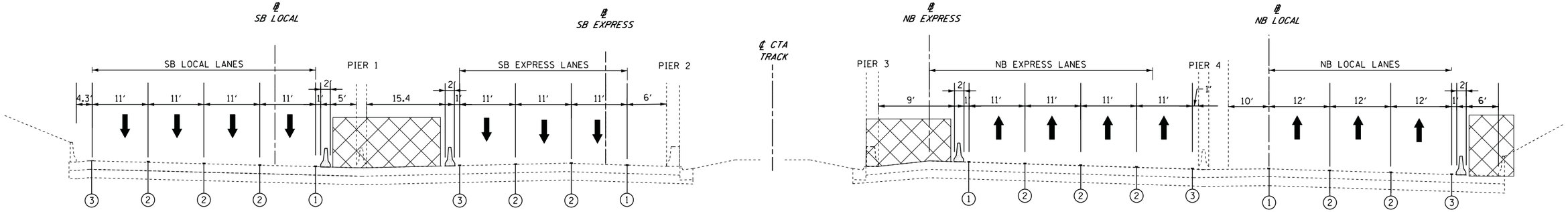
CIVIL ENGINEERING CONSULTANTS
RWA
8619 W. Bryn Mawr Ave., Suite 602
Chicago, IL 60631-3551
773-283-2600 Fax: 773-283-2602
www.RWAengineers.com
Regina Webster & Associates, Inc.



EXISTING TYPICAL SECTION
I 90/94 DAN RYAN EXPRESSWAY
AT 63rd ST BRIDGE



SUGGESTED MAINTENACE OF TRAFFIC – STAGE A
I 90/94 DAN RYAN EXPRESSWAY AT 63rd ST BRIDGE



SUGGESTED MAINTENACE OF TRAFFIC – STAGE B
I 90/94 DAN RYAN EXPRESSWAY AT 63rd ST BRIDGE

NOTE:
SEE SHEETS 22 AND 23 FOR PAVEMENT MARKING TYPES.

LEGEND

- WORK ZONE
- TEMPORARY CONCRETE BARRIER
- (1) TEMPORARY PAVEMENT MARKING LINE (4'' YELLOW EDGE LINE- LEFT)
- (2) TEMPORARY PAVEMENT MARKING LINE (30'-10' SKIP DASH, 5'' WHITE)
- (3) TEMPORARY PAVEMENT MARKING LINE (4'' WHITE EDGE LINE- RIGHT)

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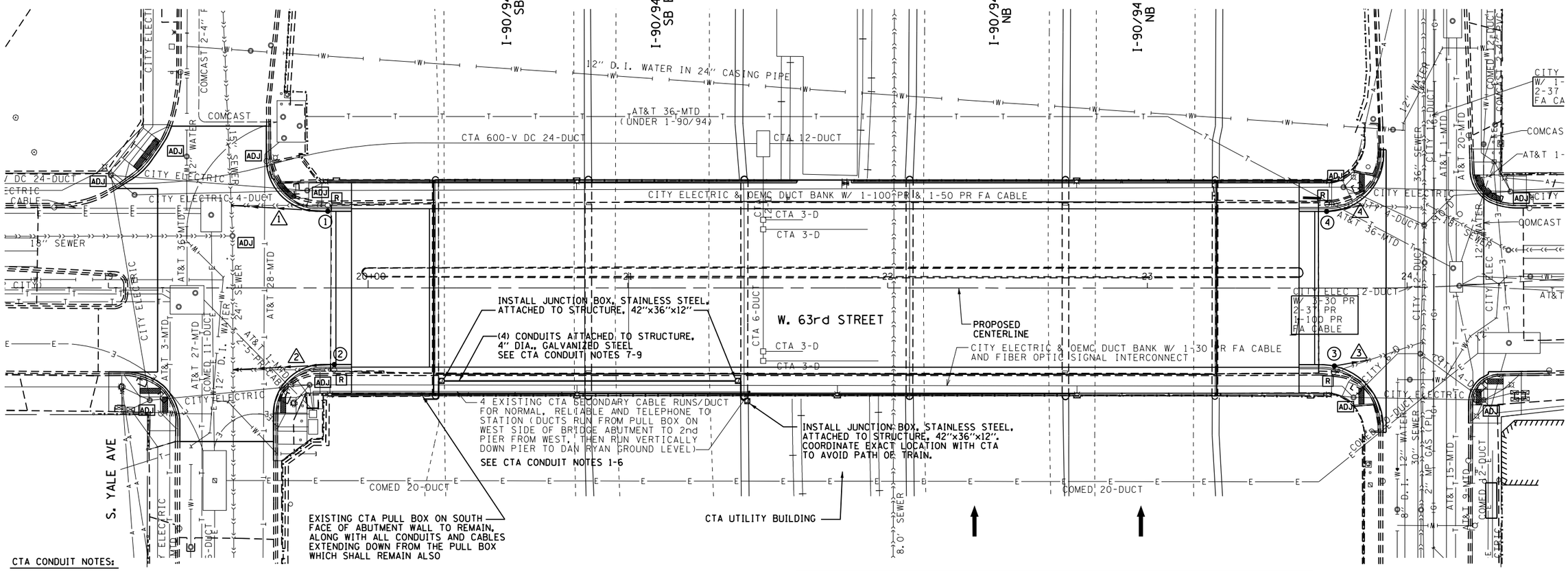
	PLOT SCALE = $SCALE$	CHECKED - JDH	REVISED -
	PLOT DATE = 3/27/2014	DATE - 03-31-2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

63rd STREET BRIDGE REPLACEMANT
SUGGESTED MAINTENANCE OF TRAFFIC DAN RYAN EXPWY

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	24
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			



CTA CONDUIT NOTES:

1. THERE ARE 4 EXISTING BRIDGE MOUNTED CONDUITS (4" EACH) RUNNING FROM THE CTA PULL BOX ON THE WEST ABUTMENT TO THE PIER IMMEDIATELY WEST OF THE CTA TRACK, WHERE THESE CONDUITS DROP TO GROUND LEVEL AND CONTINUE UNDERGROUND TO THE CTA UTILITY BUILDING. THESE CONDUITS FROM THE CTA PULL BOX TO EXISTING GROUND LEVEL OPENING NEAR THE RAILROAD TRACKS SHALL NOT BE REMOVED UNTIL TEMPORARY UTILITY SERVICE TO THE CTA IS FULLY OPERATIONAL.

2. THESE FOUR EXISTING CONDUITS CONTAIN:

2 CONDUITS WITH CTA NORMAL SERVICE - EACH WITH 4 #500 KCMIL CABLES
1 CONDUIT WITH CTA RELIABLE SERVICE - 3 #4/0 AND 1 #2 GROUND CABLES
1 CONDUIT WITH AT&T SERVICE - 25 PAIR COPPER WIRES

3. THE CONTRACTOR MUST COORDINATE WITH CTA AND AT&T TO MAINTAIN SERVICE DURING THE ENTIRE PROJECT. THIS WILL INCLUDE ALL TEMPORARY SUPPORT AND/OR RELOCATION OF THESE FACILITIES, WHICH SHALL BE INCLUDED IN THE COST OF THE NEW CTA CONDUITS & CABLING.

4. THE CONTRACTOR MAY HAVE CTA TURN OFF EITHER THE NORMAL OR RELIABLE SERVICE DURING TEMPORARY SUPPORT OR RELOCATION OPERATIONS, BUT NOT BOTH NORMAL AND RELIABLE AT THE SAME TIME. COORDINATE WITH CTA.

5. THE REMOVAL OF THE CTA CONDUITS IS INCLUDED WITH THE BRIDGE STRUCTURE REMOVAL. SEE STRUCTURAL PLANS FOR DETAILS. THE CABLE REMOVAL IS PAID FOR UNDER THE ITEM "REMOVE EXISTING CABLE FROM CONDUIT".

6. AT&T SHALL REMOVE THEIR WIRING FROM THE CTA DUCT. COORDINATE WITH CTA AND AT&T.

7. THE CONTRACTOR SHALL INSTALL FOUR NEW 4" GALVANIZED STEEL CONDUITS THAT WILL CONNECT THE EXISTING CTA PULL BOX ON THE WEST ABUTMENT TO THE GROUND LEVEL OPENING NEAR THE RAILROAD TRACKS. THE HANGING AND LOCATING DETAILS OF THESE CONDUITS ARE SHOWN ON THE STREET LIGHTING PLAN E-5 "CONDUIT MOUNTING DETAILS ALONG BRIDGE" AND THE STRUCTURAL PLAN S17 "DECK SECTIONS".

8. THE CONTRACTOR SHALL INSTALL THE FOLLOWING CABLES WITHIN THESE FOUR NEW CONDUITS:

2 CONDUITS WITH CTA NORMAL SERVICE - EACH WITH 4 - 1/C 500 MCM CABLES
1 CONDUIT WITH CTA RELIABLE SERVICE WITH 3 - 1/C NO. 4/0 AND 1 - 1/C. NO 2 (GROUND) CABLES
1 CONDUIT WITH AT&T SERVICE - WIRING TO BE INSTALLED BY AT&T

9. THE NEW CABLE SHALL EXTEND FROM THE EXISTING WEST ABUTMENT PULL BOX TO THE CTA UTILITY BUILDING'S CONTROL.

STRUCTURE NO.	LOCATION STATION	LOCATION OFFSET	STRUCTURE TYPE	ELEVATION RIM	ELEVATION INV
①	19+84.5	29.5' LT	CB, TY A, 4' DIA., TYPE 1 FRAME, OPEN LID (CITY OF CHICAGO)	599.92	594.75
②	19+87	29.5' RT	CB, TY A, 4' DIA., TYPE 1 FRAME, OPEN LID (CITY OF CHICAGO)	600.22	595.05
③	23+72	30' RT	CB, TY A, 4' DIA., TYPE 1 FRAME, OPEN LID (CITY OF CHICAGO)	600.41	595.24
④	23+69	29.5' LT	CB, TY A, 4' DIA., TYPE 1 FRAME, OPEN LID (CITY OF CHICAGO)	600.43	595.26

PIPE NO.	LOCATION FROM STRUCTURE	SIZE & MATERIAL	LENGTH	SLOPE
1	① TO MAINLINE SEWER	STORM SEWER, TYPE 2, 8" ESVCP	36'	1%
2	② TO MAINLINE SEWER	STORM SEWER, TYPE 2, 8" ESVCP	38'	1%
3	③ TO MAINLINE SEWER	STORM SEWER, TYPE 2, 8" ESVCP	12'	1%
4	④ TO MAINLINE SEWER	STORM SEWER, TYPE 2, 8" ESVCP	12'	1%

DRAINAGE NOTES:

1. SEWER STRUCTURE RIMS ARE GIVEN AT THE FLOWLINE ELEVATIONS.

2. DRAINAGE STRUCTURES AND SEWER TO BE REMOVED WITHIN THE PROPOSED SEWER TRENCH ARE INCLUDED IN THE COST OF THE NEW SEWER, AND ARE NOT PAID FOR SEPARATELY.

KEY:

ADJ STRUCTURE TO BE ADJUSTED
R STRUCTURE TO BE REMOVED
● ① PROPOSED STRUCTURE
①— PROPOSED SEWER

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4/25/2014 10:43:33 PM

GRAEF 8501 W. Higgins Roads Suite 280 Chicago, Illinois 60631 (773) 399-0112

USER NAME = 0766	DESIGNED - JSO	REVISED -
	DRAWN - HJM	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED - TNS	REVISED -
PLOT DATE = 4/25/2014	DATE - 03-15-2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

63rd STREET BRIDGE REPLACEMENT – COOK COUNTY
DRAINAGE & UTILITIES

SCALE: 1"=20 | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	25
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

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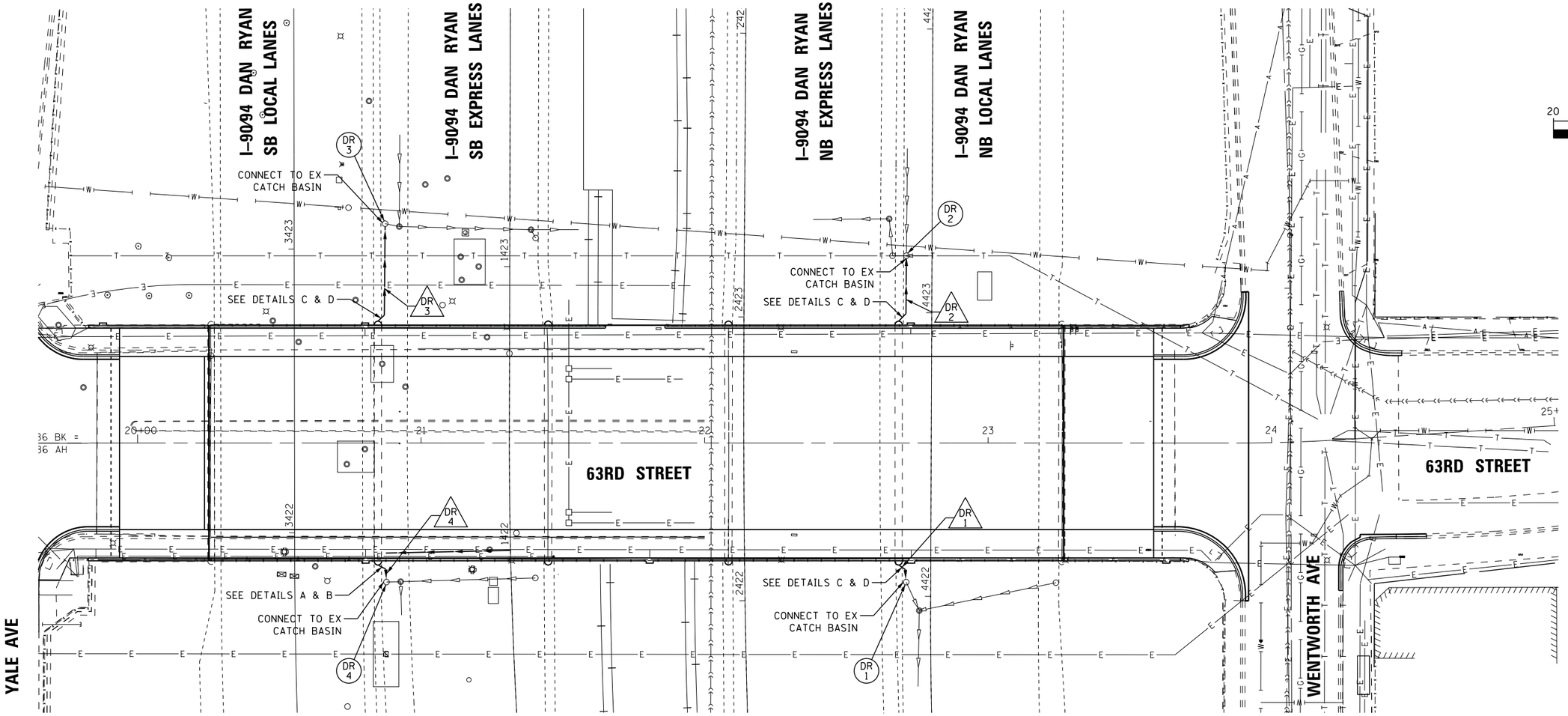

PIPE NO.	LOCATION	SIZE & MATERIAL	VERTICAL LENGTH TO TOP OF BARRIER WALL	HORIZONTAL LENGTH	SLOPE
DR1	VERTICAL 8" DOWNSPOUT @ PIER TO EX CATCH BASIN	STORM SEWER, 8" DIP	9'	8'	1% +/-
DR2	VERTICAL 8" DOWNSPOUT @ PIER TO EX CATCH BASIN	STORM SEWER, 8" DIP	9'	24'	1% +/-
DR3	VERTICAL 8" DOWNSPOUT @ PIER TO EX CATCH BASIN	STORM SEWER, 8" DIP	10'	36'	2% +/-
DR4	VERTICAL 8" DOWNSPOUT @ PIER TO EX CATCH BASIN	STORM SEWER, 8" DIP	9'	8'	2% +/-

NOTES:

1. CONTRACTOR TO VERIFY RIM AND INVERT ELEVATIONS OF EXISTING SEWERS AND CATCH BASINS ALONG DAN RYAN.
2. FOR PARTIAL PIER ELEVATION PLAN, REFER TO STRUCTURAL PLANS
3. FOR RESTORATION PLAN, SEE SHEET 123.
4. FOR DETAILS A THROUGH D, SEE SHEET 27.

STRUCTURE NO.	LOCATION		STRUCTURE TYPE	ELEVATION	
	STATION	OFFSET		RIM	INVERT
DR1	4422+05	9' L	EX CB, EA, 4' DIA T20 F & G	580.83	576.29 N PR, 574.80 S EX
DR2	4423+20	9' L	EX CB, EA, 4' DIA T20 F & G	581.37	576.39 S PR, 571.43 N EX, 571.43 W EX
DR3	1423+10	44' L	EX CB, EA, 4' DIA T20 F & G	582.77	577.19 S PR, 576.95 SE EX
DR4	1421+90	44' L	EX CB, EA, 4' DIA T20 F & G	583.19	578.69 N PR, 577.37 E EX

LEGEND

- PROPOSED STORM SEWER (DR 1)
- EXISTING MANHOLE (DR 1)
- EXISTING TRAFFIC SIGNAL
- EXISTING LIGHT POLE
- EXISTING CATCH BASIN
- EXISTING COMBINED SEWER
- EXISTING STORM SEWER
- EXISTING WATER DISTRIBUTION
- EXISTING TELEPHONE SERVICE
- EXISTING ELECTRIC SERVICE
- EXISTING AERIAL LINE

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		DRAWN - LV	REVISED -
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	PLOT DATE = 3/27/2014	DATE - 03-31-2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN
DAN RYAN EXPRESSWAY AT 63RD STREET BRIDGE

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	26
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

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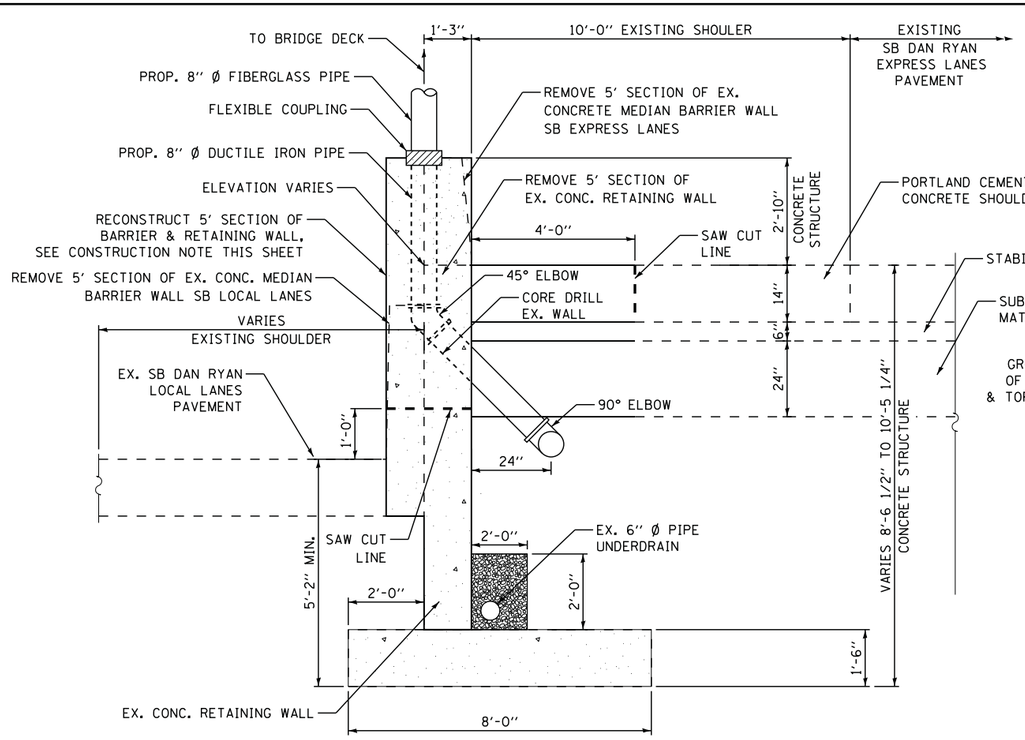
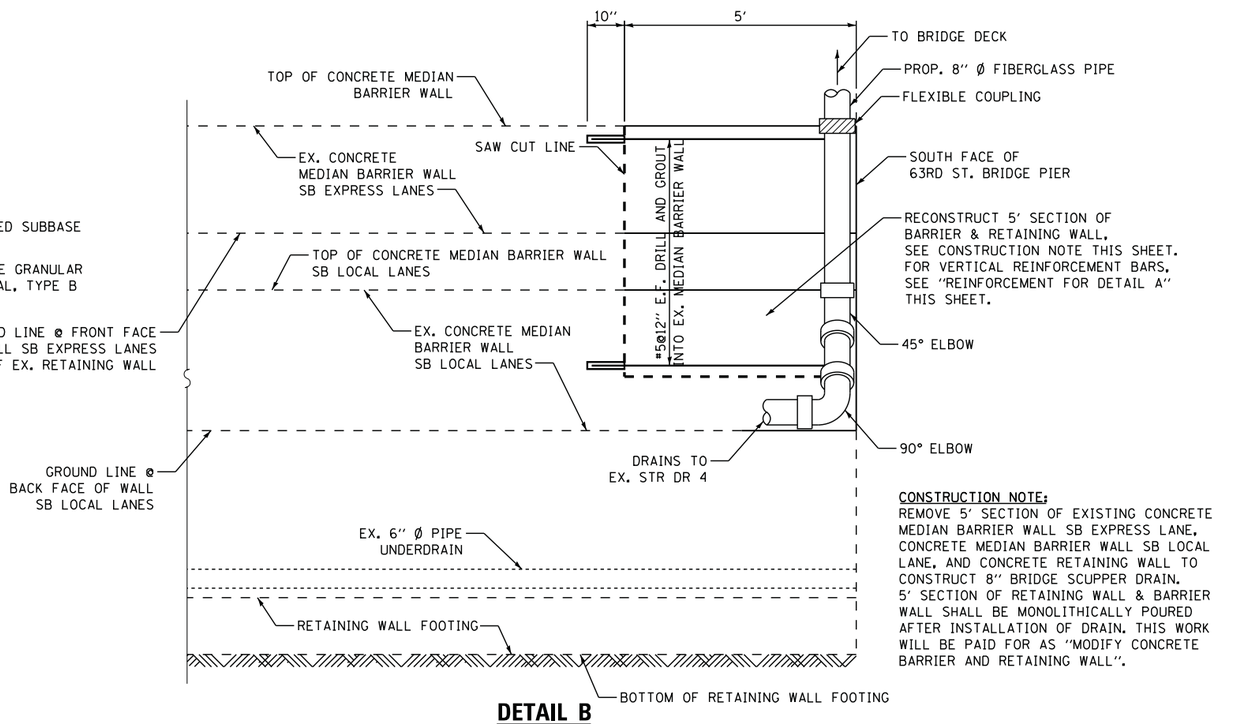


DETAIL A

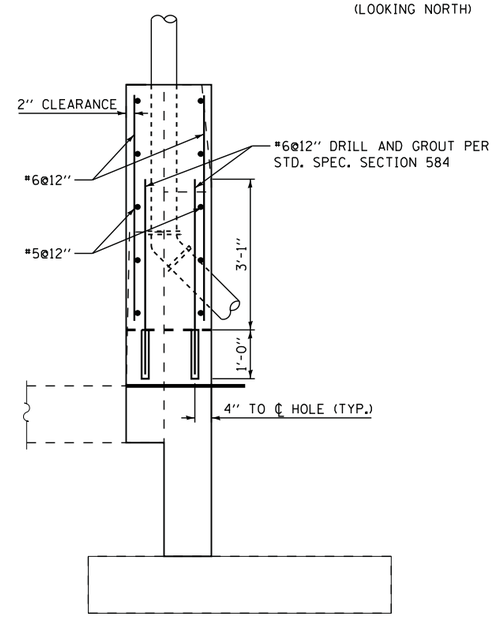
(LOOKING NORTH)



DETAIL B

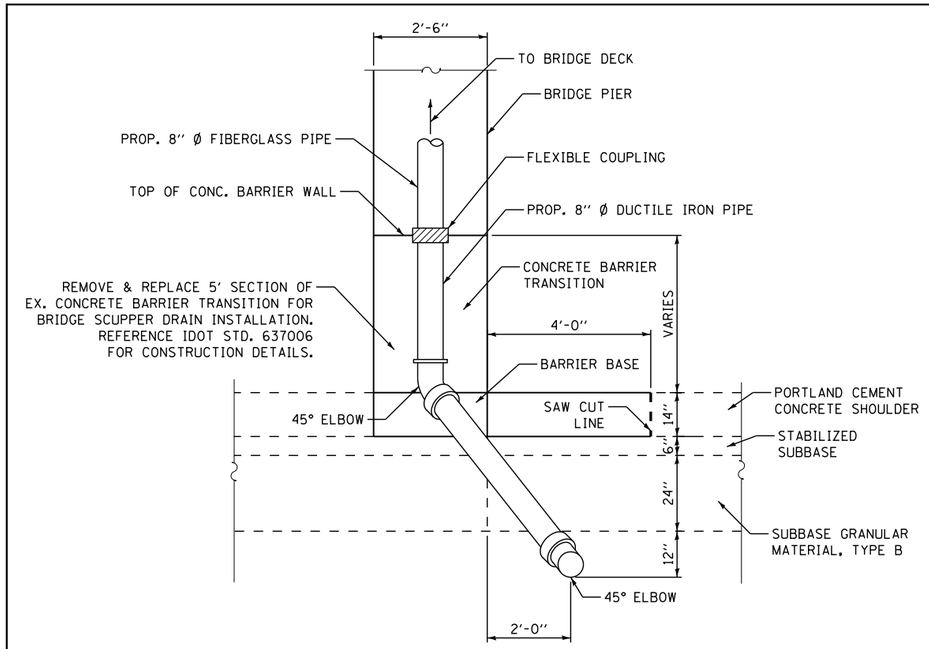
(LOOKING WEST)

CONSTRUCTION NOTE:
REMOVE 5' SECTION OF EXISTING CONCRETE MEDIAN BARRIER WALL SB EXPRESS LANE, CONCRETE MEDIAN BARRIER WALL SB LOCAL LANE, AND CONCRETE RETAINING WALL TO CONSTRUCT 8" BRIDGE SCUPPER DRAIN. 5' SECTION OF RETAINING WALL & BARRIER WALL SHALL BE MONOLITHICALLY POURED AFTER INSTALLATION OF DRAIN. THIS WORK WILL BE PAID FOR AS "MODIFY CONCRETE BARRIER AND RETAINING WALL".



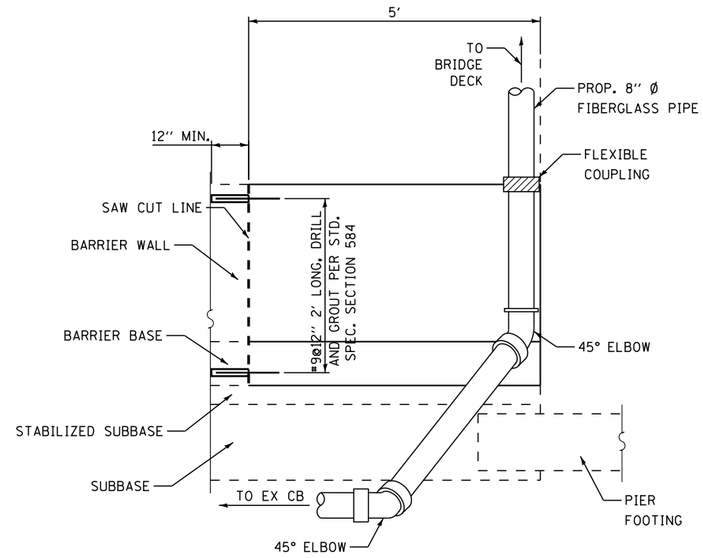
REINFORCEMENT FOR DETAIL A

(LOOKING NORTH)



DETAIL C

(LOOKING NORTH)



DETAIL D

(LOOKING WEST - DR1; LOOKING EAST - DR2 & DR3)

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	PLOT DATE = 3/27/2014	DATE - 03-31-2014	REVISED -		

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	27
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

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LEGEND

- ⊗ REMOVE SIGN PANEL AND SALVAGE
- ⊠ REMOVE SIGN ASSEMBLY AND SALVAGE
- FURNISH AND INSTALL POLE AND BASE
- MAINTAIN IN PLACE
- D/F DOUBLE FACED
- MA MAST ARM MOUNT
- FL FLAG MOUNT

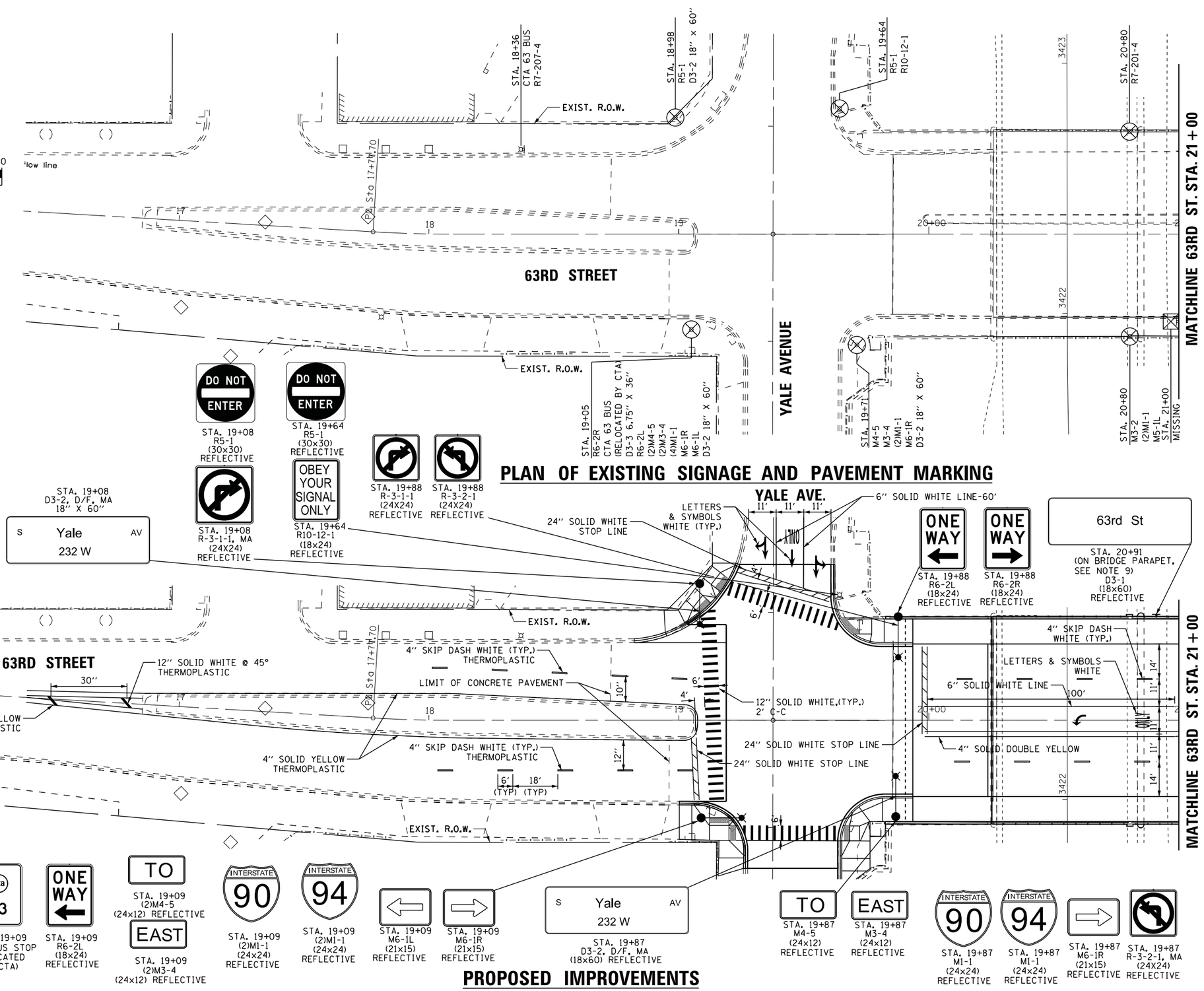
N

20 0 20 40

SCALE: 1" = 20'-0"

NOTES:

1. ALL EXISTING SIGN PANELS AND SIGN ASSEMBLIES IMPACTED BY THE PROJECT ARE TO BE REMOVED AND SALVAGED, UNLESS DIRECTED BY THE COMMISSIONER.
2. ONLY SIGNS IMPACTED BY THE PROJECT OR NEW SIGNS ARE SHOWN ON THE PLANS. ALL OTHER SIGNS SHALL REMAIN IN PLACE, UNLESS DIRECTED BY THE COMMISSIONER.
3. ALL SIGNS SHALL BE CENTER MOUNTED UNLESS OTHERWISE NOTED.
4. ARROWS FOR DOUBLE-SIDED SIGNS R7 SERIES SIGNS WILL BE ORIENTED TO IDENTIFY THE NO PARKING/LOADING ZONE. CONTRACTOR MUST NOTE THE LOCATION OF NO PARKING AREAS, LOADING ZONES, AND ONE-WAY STREETS PRIOR TO REMOVAL OF EXISTING SIGNS. PROPOSED SIGNING OF EXISTING NO PARKING/LOADING ZONES MUST MATCH EXISTING SIGNING UNLESS DIRECTED BY THE COMMISSIONER.
5. ALL PROPOSED SIGNING MUST CONFORM TO THE CITY OF CHICAGO DEPARTMENT OF TRANSPORTATION FIELD MANUAL FOR SIGN INSTALLATION AND/OR THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
6. UNLESS OTHERWISE INDICATED ALL PAVEMENT MARKINGS TO BE POLYUREA.
7. MODIFICATION /RESTORATION TO TRAFFIC SIGNAL EQUIPMENT SHOWN ON TRAFFIC SIGNAL PLANS.
8. ALL DIMENSIONS SHOWN ARE EP-EP UNLESSS OTHERWISE NOTED.
9. SIGN TO BE MOUNTED ON BRIDGE PARAPET IN A MANNER APPROVED BY THE COMMISSIONER/ ENGINEER. ALL BOLTS, ANCHORS AND CONNECTING STEEL MEMBERS SHALL BE GALVANIZED. THE COST FOR MOUNTING, INCLUDING HARDWARE, SHALL BE INCLUDED IN THE COST OF THE SIGN.



PLAN OF EXISTING SIGNAGE AND PAVEMENT MARKING

PROPOSED IMPROVEMENTS

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	PLOT DATE = 3/27/2014	CHECKED - JDH	REVISED -		
		DATE - 03-31-2014	REVISED -		

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	28
		CONTRACT NO. 60J15		
		ILLINOIS FED. AID PROJECT		

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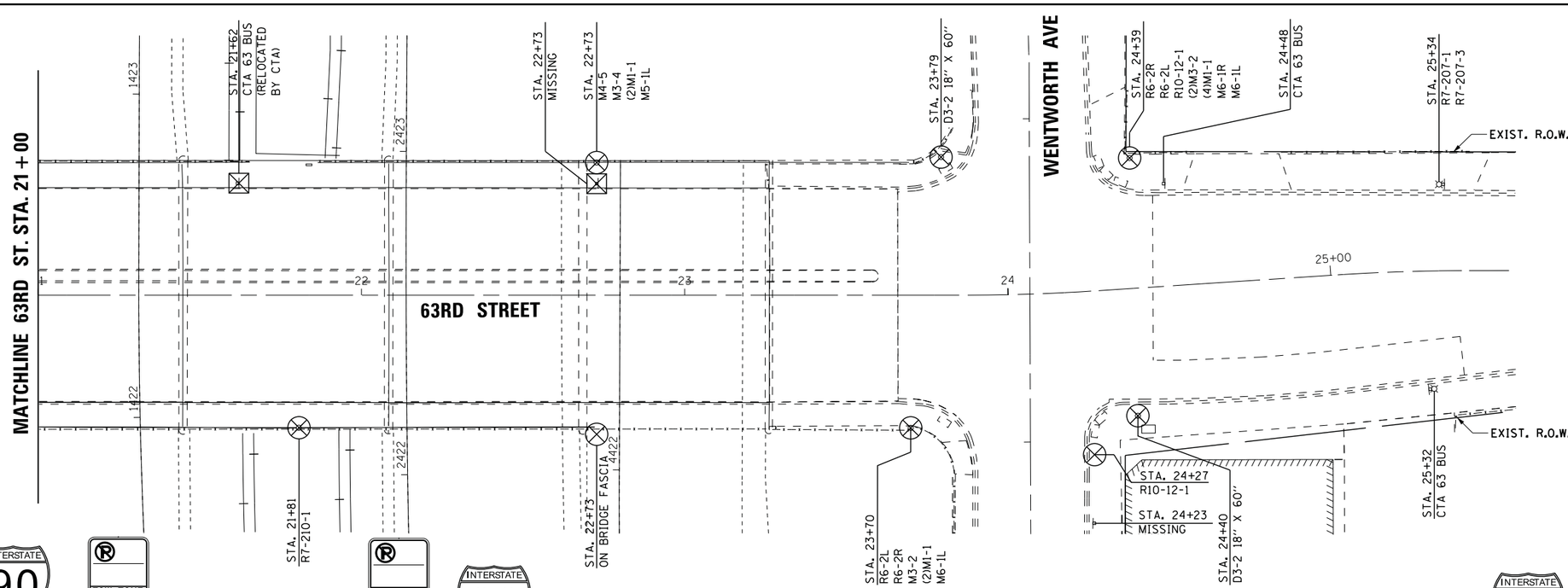


N

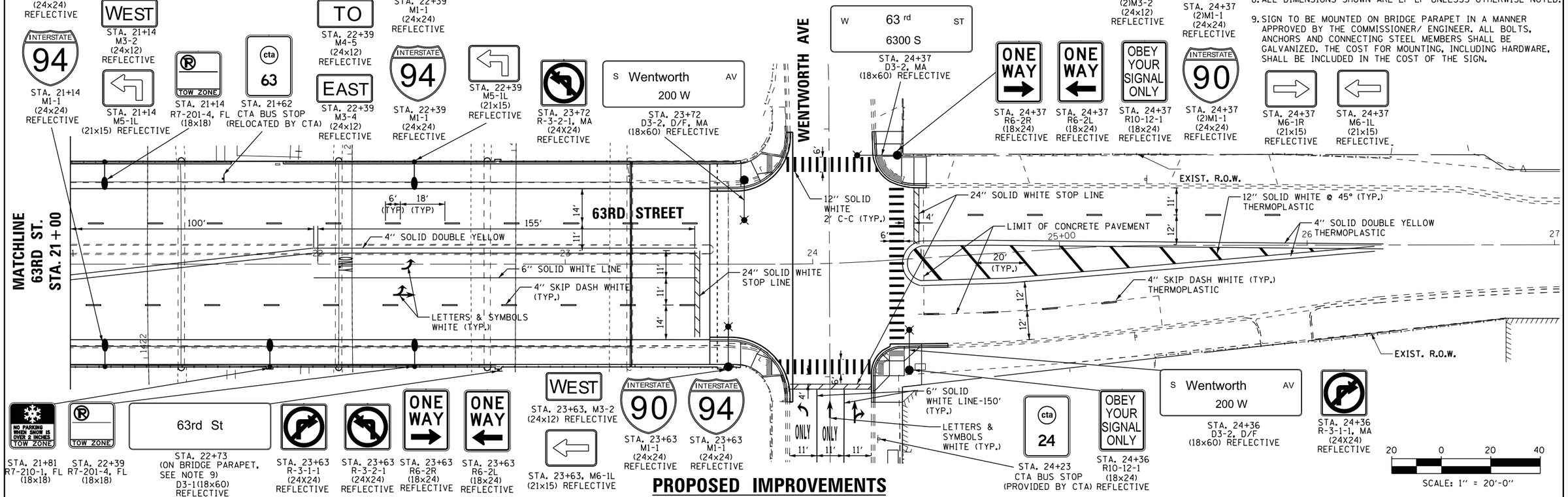
LEGEND

- ⊗ REMOVE SIGN PANEL AND SALVAGE
- ⊠ REMOVE SIGN ASSEMBLY AND SALVAGE
- ▪ FURNISH AND INSTALL POLE AND BASE
- ⊏ MAINTAIN IN PLACE
- D/F DOUBLE FACED
- MA MAST ARM MOUNT
- FL FLAG MOUNT

NOTES:

1. ALL EXISTING SIGN PANELS AND SIGN ASSEMBLIES IMPACTED BY THE PROJECT ARE TO BE REMOVED AND SALVAGED, UNLESS DIRECTED BY THE COMMISSIONER.
2. ONLY SIGNS IMPACTED BY THE PROJECT OR NEW SIGNS ARE SHOWN ON THE PLANS. ALL OTHER SIGNS SHALL REMAIN IN PLACE, UNLESS DIRECTED BY THE COMMISSIONER.
3. ALL SIGNS SHALL BE CENTER MOUNTED UNLESS OTHERWISE NOTED.
4. ARROWS FOR DOUBLE-SIDED SIGNS R7 SERIES SIGNS WILL BE ORIENTED TO IDENTIFY THE NO PARKING/LOADING ZONE. CONTRACTOR MUST NOTE THE LOCATION OF NO PARKING AREAS, LOADING ZONES, AND ONE-WAY STREETS PRIOR TO REMOVAL OF EXISTING SIGNS. PROPOSED SIGNING OF EXISTING NO PARKING/LOADING ZONES MUST MATCH EXISTING SIGNING UNLESS DIRECTED BY THE COMMISSIONER.
5. ALL PROPOSED SIGNING MUST CONFORM TO THE CITY OF CHICAGO DEPARTMENT OF TRANSPORTATION FIELD MANUAL FOR SIGN INSTALLATION AND/OR THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
6. UNLESS OTHERWISE INDICATED ALL PAVEMENT MARKINGS TO BE POLYUREA.
7. MODIFICATION /RESTORATION TO TRAFFIC SIGNAL EQUIPMENT SHOWN ON TRAFFIC SIGNAL PLANS.
8. ALL DIMENSIONS SHOWN ARE EP-EP UNLESSS OTHERWISE NOTED.
9. SIGN TO BE MOUNTED ON BRIDGE PARAPET IN A MANNER APPROVED BY THE COMMISSIONER/ ENGINEER. ALL BOLTS, ANCHORS AND CONNECTING STEEL MEMBERS SHALL BE GALVANIZED. THE COST FOR MOUNTING, INCLUDING HARDWARE, SHALL BE INCLUDED IN THE COST OF THE SIGN.

PLAN OF EXISTING SIGNAGE AND PAVEMENT MARKING



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		DATE - 03-31-2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNAGE AND PAVEMENT MARKING PLAN
63RD STREET AT WENTWORTH AVENUE

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	29
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

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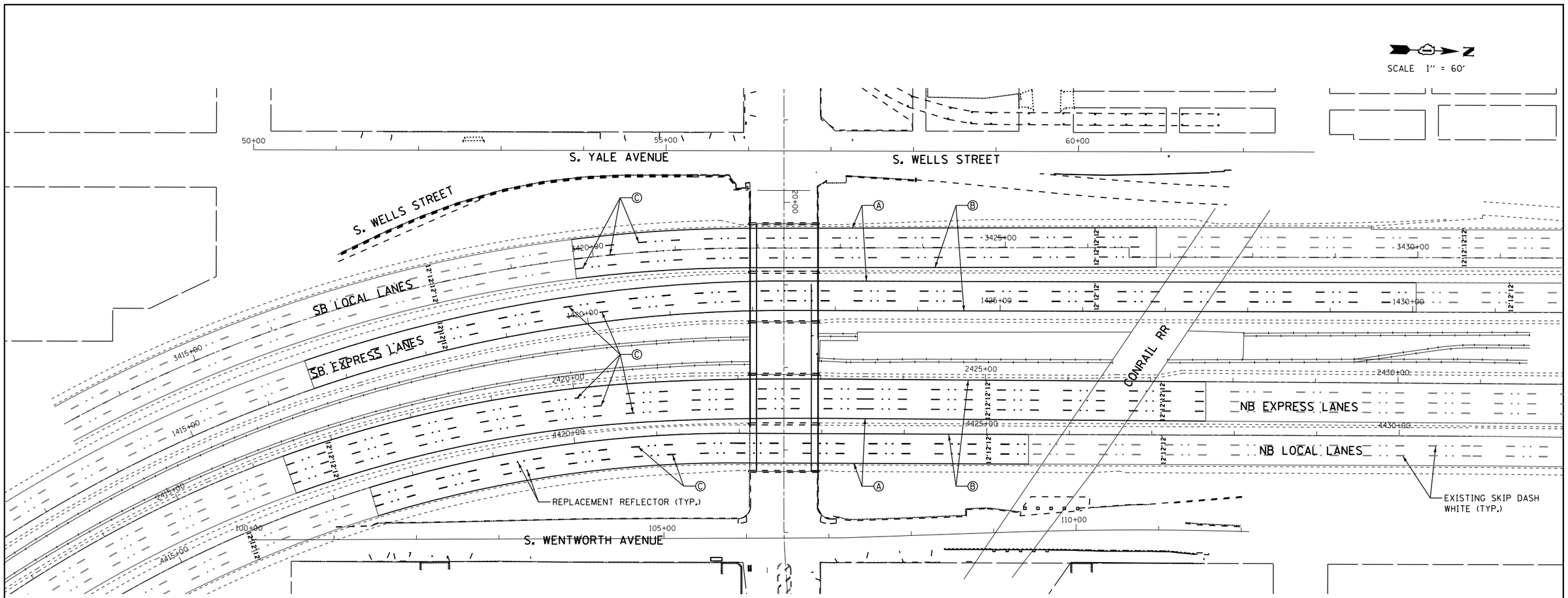

LEGEND:

- (A) - 4" WHITE EDGE LINE (RIGHT)
- (B) - 4" YELLOW EDGE LINE (LEFT)
- (C) - 5" WHITE SKIP DASH LANE LINES (10' DASH, 30' SKIP)
- ◁ - REPLACEMENT REFLECTOR

NOTES

1. ALL PAVEMENT MARKINGS TO BE POLYUREA, UNLESS OTHERWISE NOTED.
2. REPLACEMENT OF THE REFLECTIVE ELEMENT IN THE EXISTING RAISED REFLECTIVE PAVEMENT MARKER CASTINGS SHALL BE PAID FOR AS REPLACEMENT REFLECTOR.

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	PLOT SCALE = *SCALE*	CHECKED - JDH	REVISED -
	PLOT DATE = 3/27/2014	DATE - 03-31-2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

63rd STREET BRIDGE REPLACEMENT – COOK COUNTY
DAN RYAN PAVEMENT MARKING PLAN

SCALE: 1"=60' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	30
		CONTRACT NO. 60J15		
		ILLINOIS	FED. AID PROJECT	

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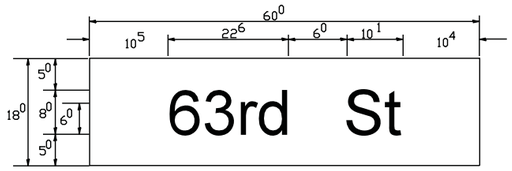
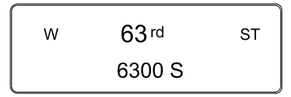
REGULATORY SIGN LEGEND

D3-1
18" X 60"
Parapet Mounted



___ Sq. M. each
7.5 Sq. Ft. each
1 Required
Design Series D

D3-2
18" X 60"



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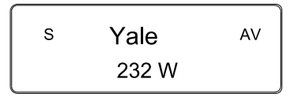

D3-2
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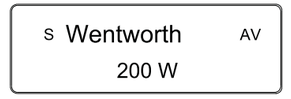


D3-3 D/F
6.75" X 36"

R5-1
(30x30)
REFLECTIVE

R10-12-1
(18x24)
REFLECTIVE

R7-210-1
(18x18)

R6-2L
(18x24)
REFLECTIVE

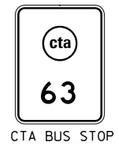
CTA BUS STOP
(BY OTHERS)


R3-1-1
(24x24)
REFLECTIVE


R3-2-1
(24x24)
REFLECTIVE

R7-201-4
(18x18)

R6-2R
(18x24)
REFLECTIVE



CTA BUS STOP
(BY OTHERS)

M3-2
(24x12)

M3-2
(24x12)

M3-4
(24x12)

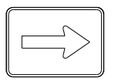
M3-4
(24x12)

M1-1
(24x24)

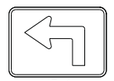
M1-1
(24x24)

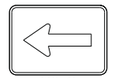
M1-1
(24x24)

M1-1
(24x24)


M6-1R
(21x15)

M4-5
(24x12)


M5-1L
(21x15)


M6-1L
(21x15)

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		DRAWN - LV	REVISED -			94	1920-B	COOK	142	31
	PLOT SCALE = $SCALE$	CHECKED - JDH	REVISED -					CONTRACT NO. 60J15		
	PLOT DATE = $DATE$	DATE - 03-31-2014	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

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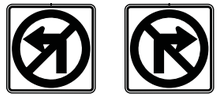
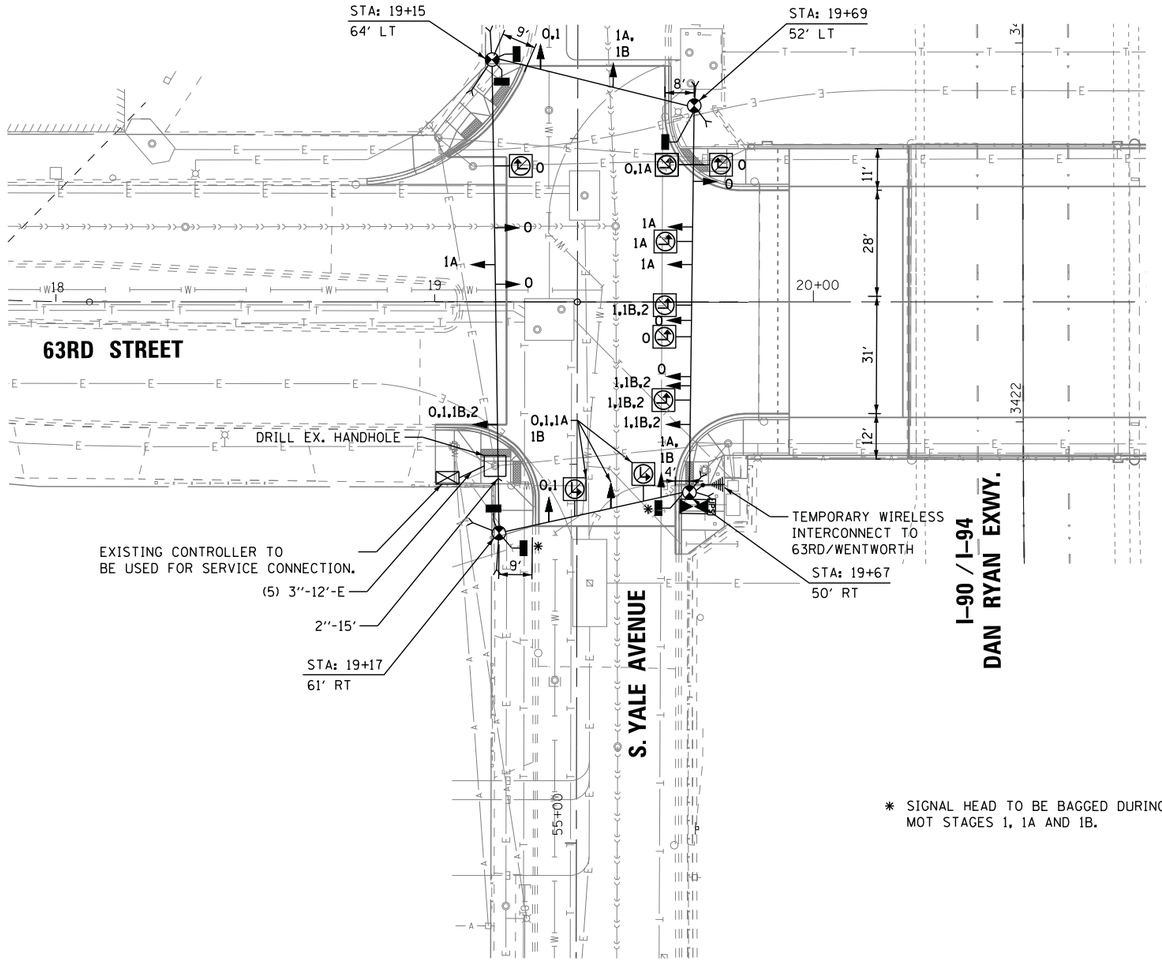
Regina Webster & Associates, Inc.
8619 W. Bryn Mawr Ave., Suite 602
Chicago, IL 60631-3551
773-283-2600 Fax: 773-283-2602
www.RWAengineers.com



R-3-1
(24X24)
REFLECTIVE
4 REQUIRED

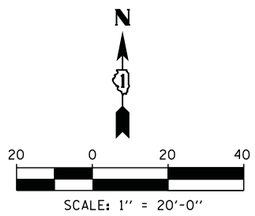
R-3-2
(24X24)
REFLECTIVE
2 REQUIRED



* SIGNAL HEAD TO BE BAGGED DURING MOT STAGES 1, 1A AND 1B.

LEGEND:

- O ← SIGNAL HEAD - ORIGINAL AND FINAL LOCATION
- # ← SIGNAL HEAD - MAINTENANCE OF TRAFFIC STAGE LOCATION
- WOOD POLE (CLASS 5 OR BETTER) 45' MINIMUM
- TEMPORARY TRAFFIC SIGNAL CONTROLLER W/UPS
- PEDESTRIAN SIGNAL COUNTDOWN, BRACKET MOUNT
- TEMPORARY WIRELESS INTERCONNECT
- EXISTING CONDUIT
- PROPOSED CONDUIT
- # MAINTENANCE OF TRAFFIC STAGE
  O = ORIGINAL AND FINAL LOCATION
  A = ALL STAGES



SCALE: 1'' = 20'-0''

TEMPORARY TRAFFIC SIGNAL PLAN

SCALE: 1''=20'

NOTES:

1. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT.

2. REFERENCE MAINTENANCE OF TRAFFIC PLANS, SHEETS 17-21, FOR LANE CONFIGURATION DURING STAGES 1, 1A, 1B AND 2.

3. THE COST FOR THE 2'' CONDUIT AND DRILL EXISTING HANDHOLE SHALL BE INCLUDED IN THE COST FOR TEMPORARY TRAFFIC SIGNAL INSTALLATION.

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		DRAWN - LV	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - JDH	REVISED -
	PLOT DATE = $DATE$	DATE - 03-31-2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL PLAN
63RD STREET & YALE AVENUE

SCALE: 1''=20' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	32
		CONTRACT NO. 60J15		
	ILLINOIS	FED. AID PROJECT		

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NOTES FOR TEMPORARY TRAFFIC SIGNALS

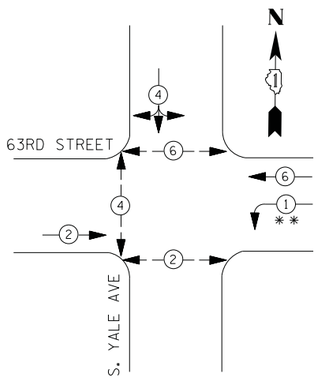
1) ALL CONTROL EQUIPMENT INCLUDING EMERGENCY PRE-EMPTION AND COMMUNICATION DEVICES FOR THE TEMPORARY TRAFFIC SIGNAL(S) SHALL BE FURNISHED BY THE CONTRACTOR.

2) ALL TRAFFIC SIGNAL SECTIONS AND PEDESTRIAN SIGNAL SECTIONS SHALL BE LED AND 12'' (300mm) DIAMETER. HEADS SHALL BE PLACED AS INDICATED ON THE TEMPORARY TRAFFIC SIGNAL PLAN OR AS DIRECTED BY THE ENGINEER. PEDESTRIAN SIGNALS SHALL INCLUDE SOLID INTERNATIONAL SYMBOLS. PEDESTRIAN SIGNALS WITH COUNTDOWN TIMERS SHALL BE USED WHEN THE EXISTING INSTALLATION UTILIZES COUNTDOWN TYPE OR AS DIRECTED BY THE ENGINEER. COUNTDOWN TYPE PEDESTRIAN SIGNALS ARE NOT TO BE INSTALLED AT RAILROAD INTERSECTIONS. THE CONTRACTOR SHALL FURNISH ENOUGH CABLE SLACK TO RELOCATE HEADS TO ANY POSITION ON THE SPAN WIRE OR AT LOCATIONS ILLUSTRATED ON THE PLANS FOR CONSTRUCTION STAGING. THE TEMPORARY TRAFFIC SIGNAL SHALL REMAIN IN OPERATION DURING ALL SIGNAL HEAD RELOCATIONS. EACH TEMPORARY TRAFFIC SIGNAL HEAD SHALL HAVE ITS OWN CABLE FROM THE CONTROLLER CABINET TO THE SIGNAL HEAD.

3) ALL EXISTING STREET NAME AND INTERSECTION REGULATORY SIGNS SHALL BE REMOVED FROM EXISTING POLES, RELOCATED AND SECURELY FASTENED TO THE SIGNAL SPAN WIRE OR WOOD POLE AS DIRECTED BY THE ENGINEER.

4) THE TEMPORARY TRAFFIC SIGNAL SHALL HAVE THE SIGNAL HEAD DISPLAYS, SIGNAL HEAD PLACEMENTS AND CONTROLLER PHASING MATCH THE EXISTING TRAFFIC SIGNAL, AT THE TIME OF THE TURN ON, IF NO TRAFFIC STAGING IS IN PLACE OR WILL NOT BE STAGED ON THE DAY OF THE TURN ON.

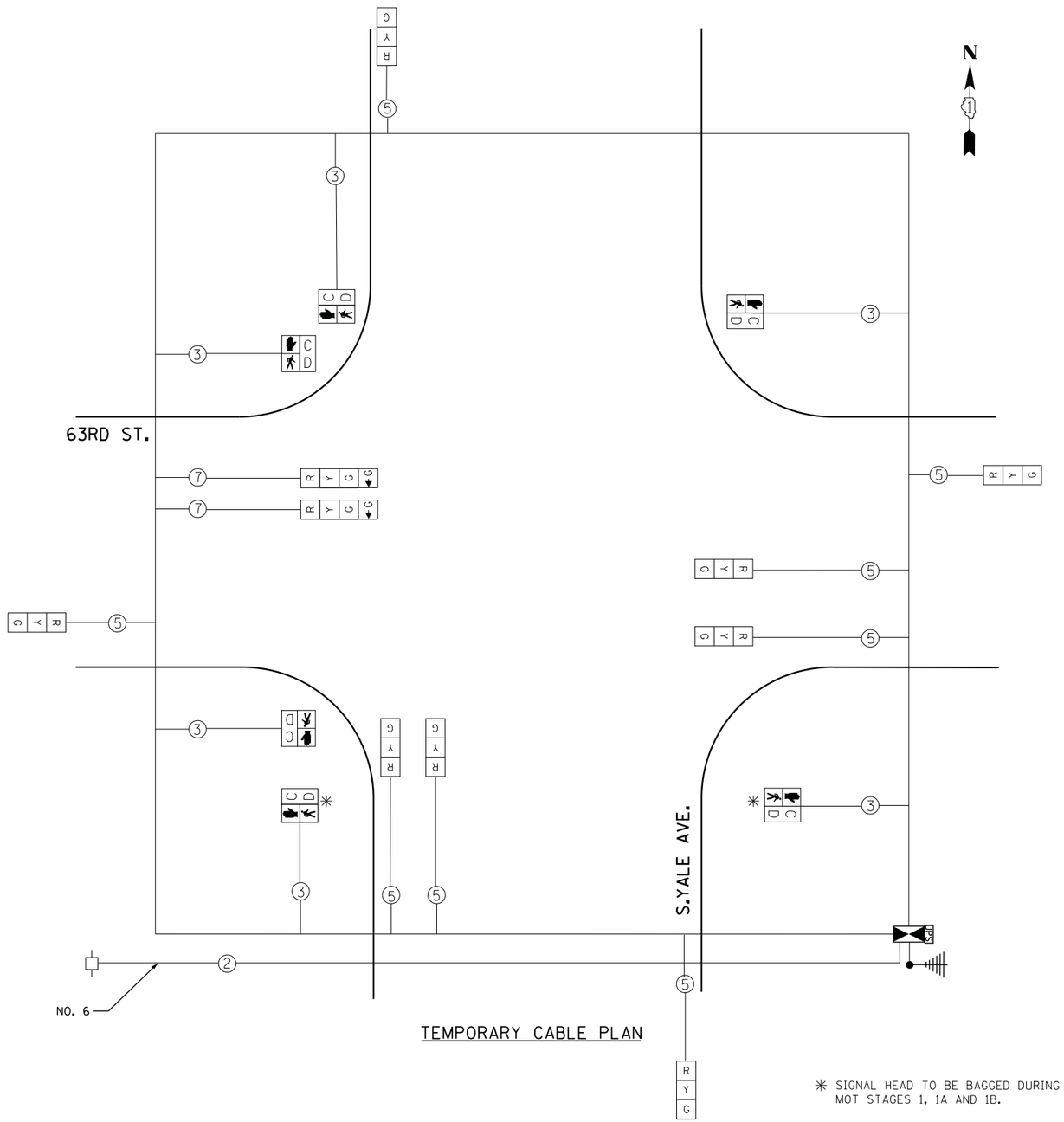
TEMPORARY SEQUENCE OF OPERATIONS



** LAGGING LEFT TURN ARROW

LEGEND

DUAL ENTRY PHASE
PEDESTRIAN PHASE
SINGLE ENTRY PHASE
OVERLAP
NUMBER REFERS TO ASSOCIATED PHASE



TEMPORARY CABLE PLAN

* SIGNAL HEAD TO BE BAGGED DURING MOT STAGES 1, 1A AND 1B.

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	PLOT DATE = 3/27/2014	DATE - 03-31-2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN
63RD STREET & YALE AVENUE

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

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	33
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

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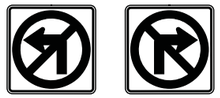
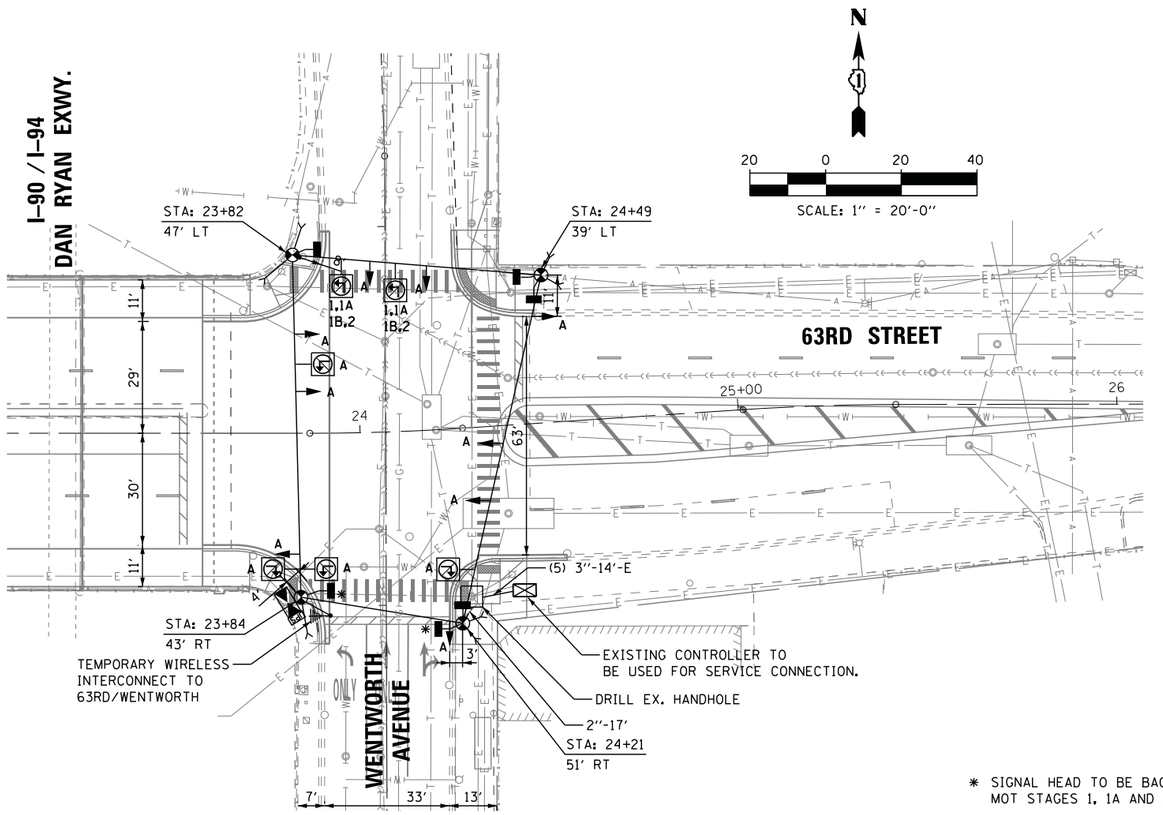


R-3-1
(24X24)
REFLECTIVE
4 REQUIRED

R-3-2
(24X24)
REFLECTIVE
2 REQUIRED



LEGEND:

- SIGNAL HEAD - ORIGINAL AND FINAL LOCATION
- # SIGNAL HEAD - MAINTENANCE OF TRAFFIC STAGE LOCATION
- WOOD POLE (CLASS 5 OR BETTER) 45' MINIMUM
- TEMPORARY TRAFFIC SIGNAL CONTROLLER W/UPS
- PEDESTRIAN SIGNAL COUNTDOWN, BRACKET MOUNT
- TEMPORARY WIRELESS INTERCONNECT
- EXISTING CONDUIT
- PROPOSED CONDUIT
- # MAINTENANCE OF TRAFFIC STAGE
  A = ALL STAGES

* SIGNAL HEAD TO BE BAGGED DURING MOT STAGES 1, 1A AND 1B.

TEMPORARY TRAFFIC SIGNAL PLAN

SCALE: 1''=20'

NOTES:

1. ALL DIMENSIONS ARE TO EDGE OF PAVEMENT.

2. REFERENCE MAINTENANCE OF TRAFFIC PLANS, SHEETS 17-21, FOR LANE CONFIGURATION DURING STAGES 1, 1A, 1B AND 2.

3. THE COST FOR THE 2'' CONDUIT AND DRILL EXISTING HANDHOLE SHALL BE INCLUDED IN THE COST FOR TEMPORARY TRAFFIC SIGNAL INSTALLATION.

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	PLOT DATE = 3/27/2014	DATE - 03-31-2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY TRAFFIC SIGNAL PLAN
63RD STREET & WENTWORTH AVENUE

SCALE: 1''=20' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	34
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

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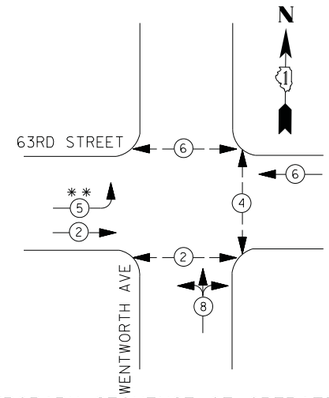
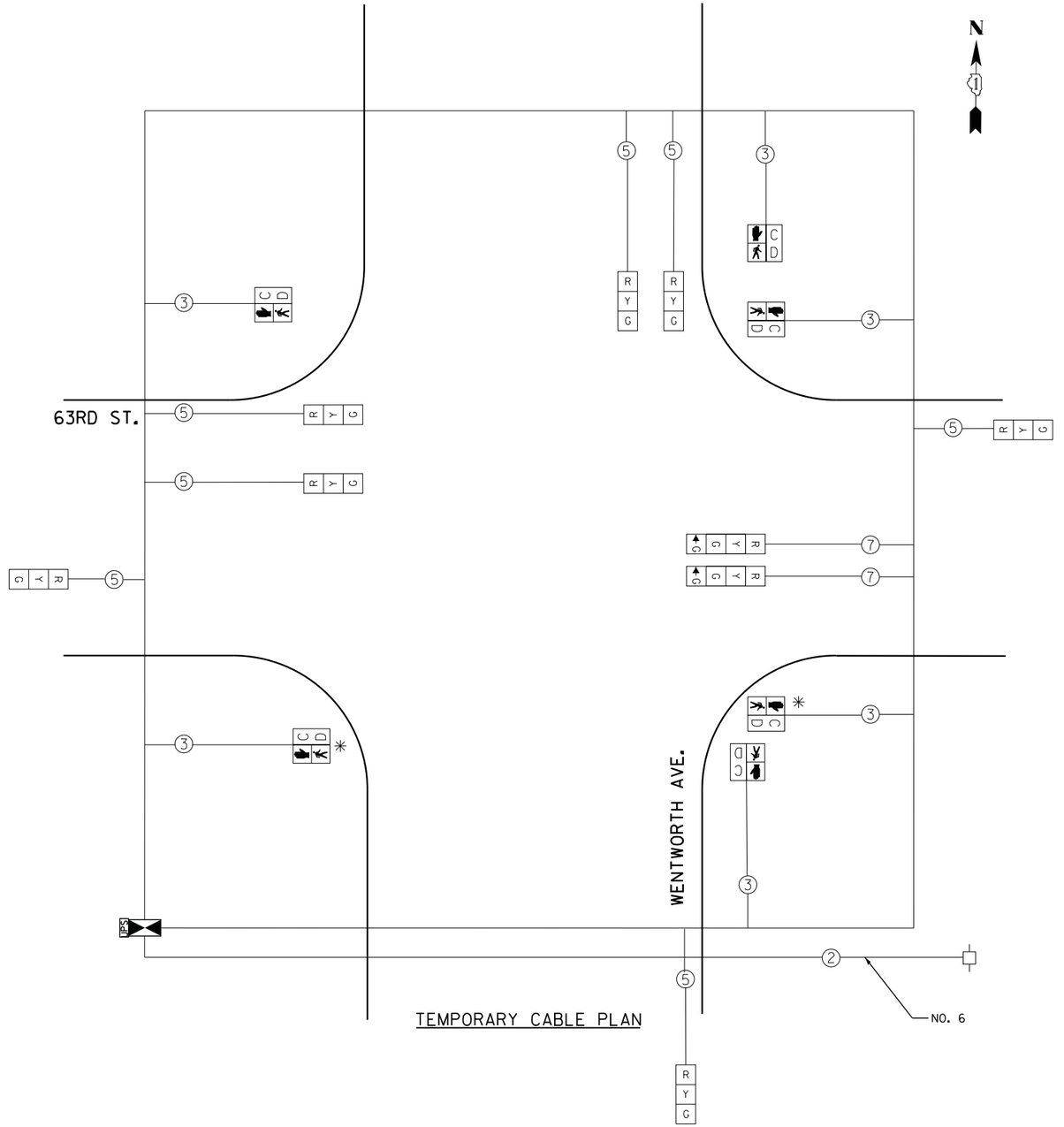


TEMPORARY SEQUENCE OF OPERATIONS

** LAGGING LEFT TURN ARROW

LEGEND

- DUAL ENTRY PHASE
- PEDESTRIAN PHASE
- SINGLE ENTRY PHASE
- OVERLAP
- * NUMBER REFERS TO ASSOCIATED PHASE



TEMPORARY CABLE PLAN

* SIGNAL HEAD TO BE BAGGED DURING MOT STAGES 1, 1A AND 1B.

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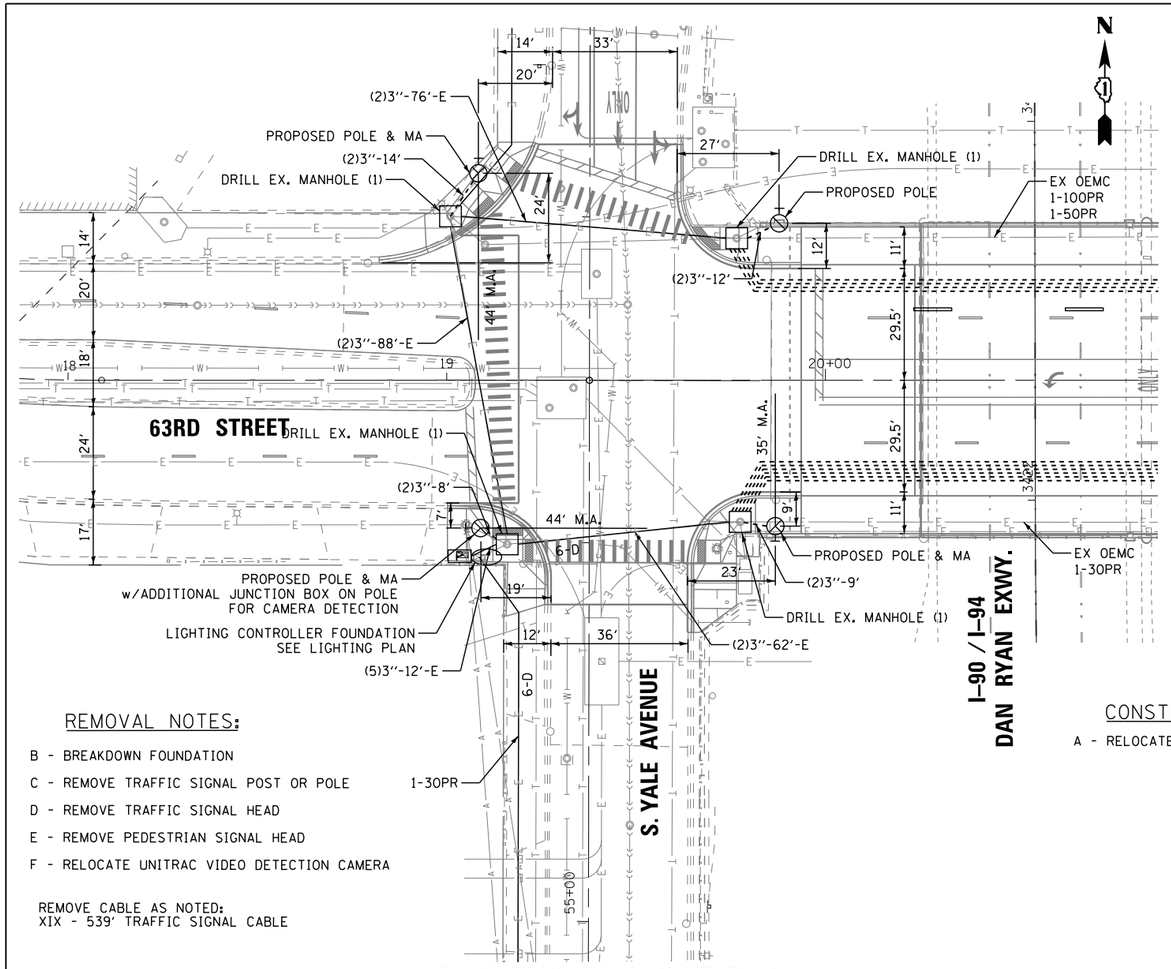
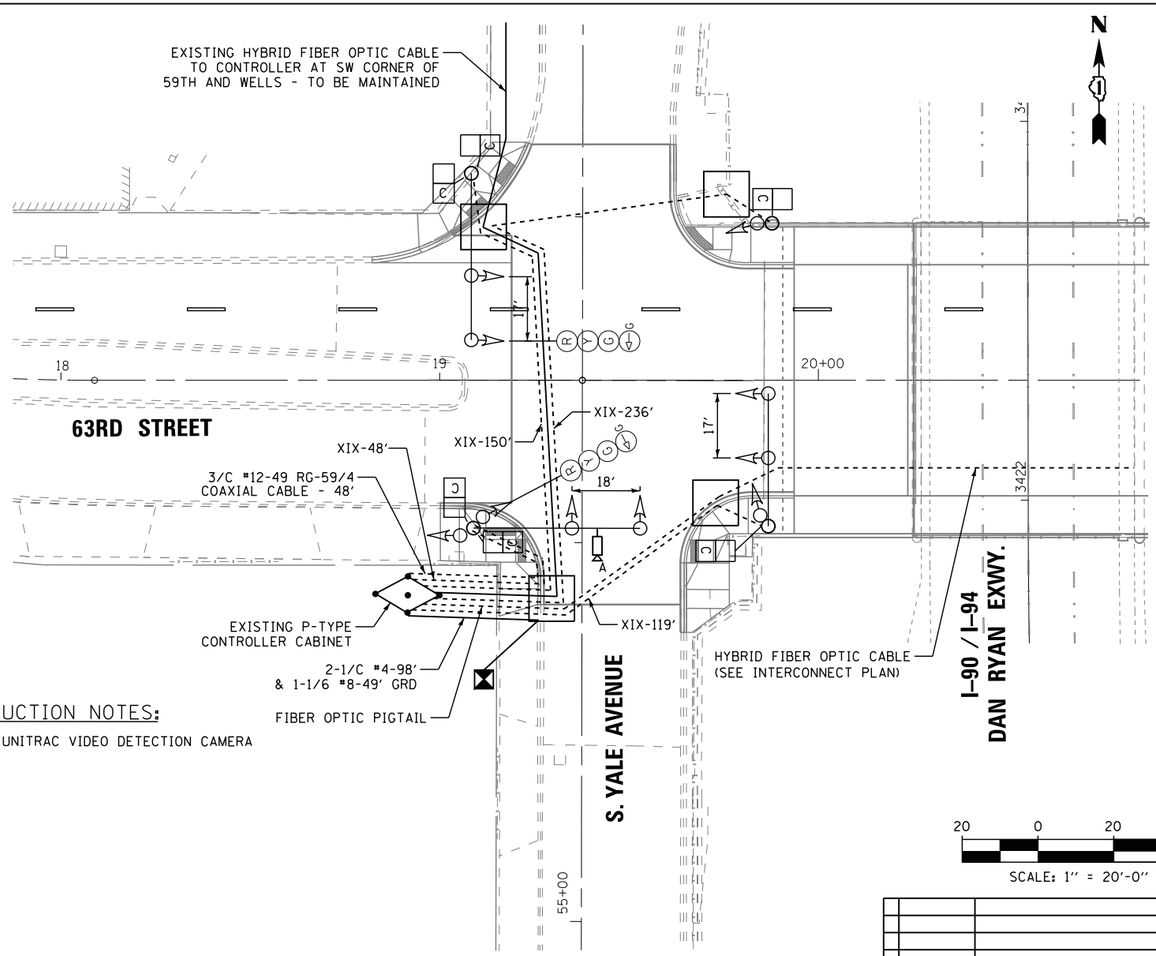
	PLOT SCALE = $SCALE$	DRAWN - LV	REVISED -			94	1920-B	COOK	142	35
	PLOT DATE = 3/27/2014	CHECKED - JDH	REVISED -					CONTRACT NO. 60J15		
		DATE - 03-31-2014	REVISED -		SCALE: NTS SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

TOTAL SHEETS	SHEET NO.
142	36



FOUNDATION AND CONDUIT PLAN

SCALE: 1''=20'



SIGNAL AND CABLE PLAN

SCALE: 1''=20'

20 0 20 40

SCALE: 1'' = 20'-0''

REMOVAL NOTES:

B - BREAKDOWN FOUNDATION

C - REMOVE TRAFFIC SIGNAL POST OR POLE

D - REMOVE TRAFFIC SIGNAL HEAD

E - REMOVE PEDESTRIAN SIGNAL HEAD

F - RELOCATE UNITRAC VIDEO DETECTION CAMERA

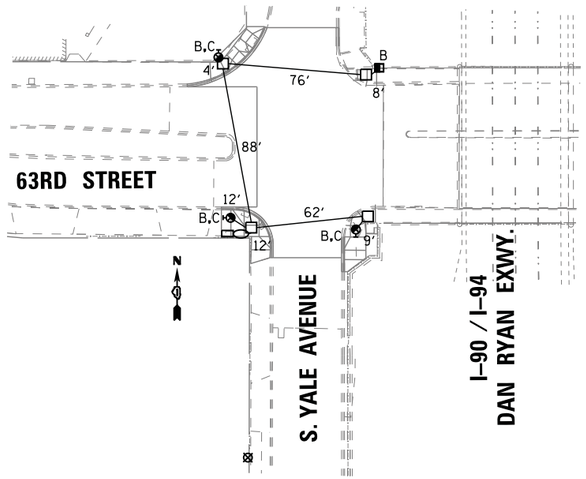
REMOVE CABLE AS NOTED:
XIX - 539' TRAFFIC SIGNAL CABLE

CONSTRUCTION NOTES:

A - RELOCATE UNITRAC VIDEO DETECTION CAMERA

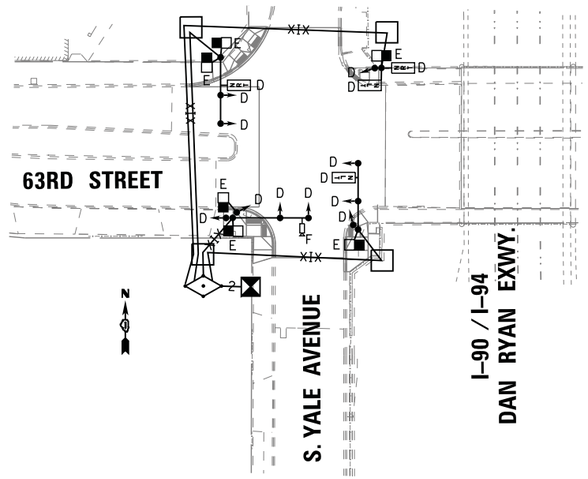
GENERAL NOTES:

1. TRAFFIC SIGNAL CONTRACTOR SHALL CONTACT BOE INSPECTION SERVICES AT 312-746-5048 FOR A WALK THROUGH PRIOR TO STARTING ANY ELECTRICAL CONSTRUCTION
2. THIS INTERSECTION CONTAINS EXISTING FIRE ALARM AND POLICE COMMUNICATION SYSTEM WHICH WILL REMAIN IN SERVICE DURING THE DURATION OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE CITY OF CHICAGO OFFICE OF EMERGENCY MANAGEMENT AND COMMUNICATIONS (OEMC), MR. JEFF CAIRNS: 312-746-4414, PRIOR TO COMMENCEMENT OF ALL WORK. REQUIRED COORDINATION OF WORK WITH THE OEMC MUST BE INCLUDED IN THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE GRANTED. WHILE WORKING NEAR THE OEMC FACILITIES, THE CONTRACTOR SHALL TAKE EXTREME CARE NOT TO IMPACT OR DAMAGE THESE FACILITIES. ANY DAMAGE TO THESE FACILITIES SHALL BE PAID FOR BY THE CONTRACTOR AT HIS/HER EXPENSE.
3. CONTRACTOR SHALL CONTACT UTILITIES FOR LOCATE PRIOR TO WORK.
4. ALL FOUNDATIONS IN CONCRETE SIDEWALK TO BE INSTALLED PER B.O.E. DRAWING #828.
5. SEE B.O.E. DRAWING #826 FOR CODE.
6. SEE STANDARD DRAWINGS FOR MOUNTING DETAILS.
7. ALL SIGNAL SECTIONS TO BE STANDARD 12'' SIZE L.E.D.. TYPE.
8. ALL VEHICULAR SIGNALS TO BE 3 SECTION, UNLESS OTHERWISE NOTED.
9. PEDESTRIAN SIGNALS TO BE 2 SECTION WITH I.T.E. SYMBOLIC LENSES L.E.D. TYPE. AND COUNT DOWN DISPLAY
10. PEDESTRIAN SIGNALS TO BE MOUNTED BELOW VEHICULAR SIGNALS.
11. ALL MAST ARMS TO BE STEEL MONOTUBE TYPE, SIZE AS NOTED.
12. TRAFFIC SIGNAL EQUIPMENT SHALL BE PAINTED BLACK.
13. ALL DIMENSIONS ARE FROM EP-EP UNLESSS OTHERWISE NOTED.
14. SEE STRUCTURAL PLANS FOR EXACT LOCATION OF CONDUITS ATTACHED TO BRIDGE.
15. ALL CONDUIT SHALL BE INSTALLED IN OPEN CUT TRENCHES, A MINIMUM OF 30 INCHES BELOW GRADE, UNLESS OTHERWISE NOTED.



FOUNDATION REMOVAL PLAN

SCALE: NTS



SIGNAL AND CABLE REMOVAL PLAN

SCALE: NTS

DATE	REVISION

CITY OF CHICAGO

DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING

CONSULTANT:

RWA Regina Webster & Associates, Inc.

WORK ORDER NO. _____ DATE _____

COST ALLOCATION ACCOUNT _____

APPROPRIATION ACCOUNT { MATERIAL _____ / LABOR _____

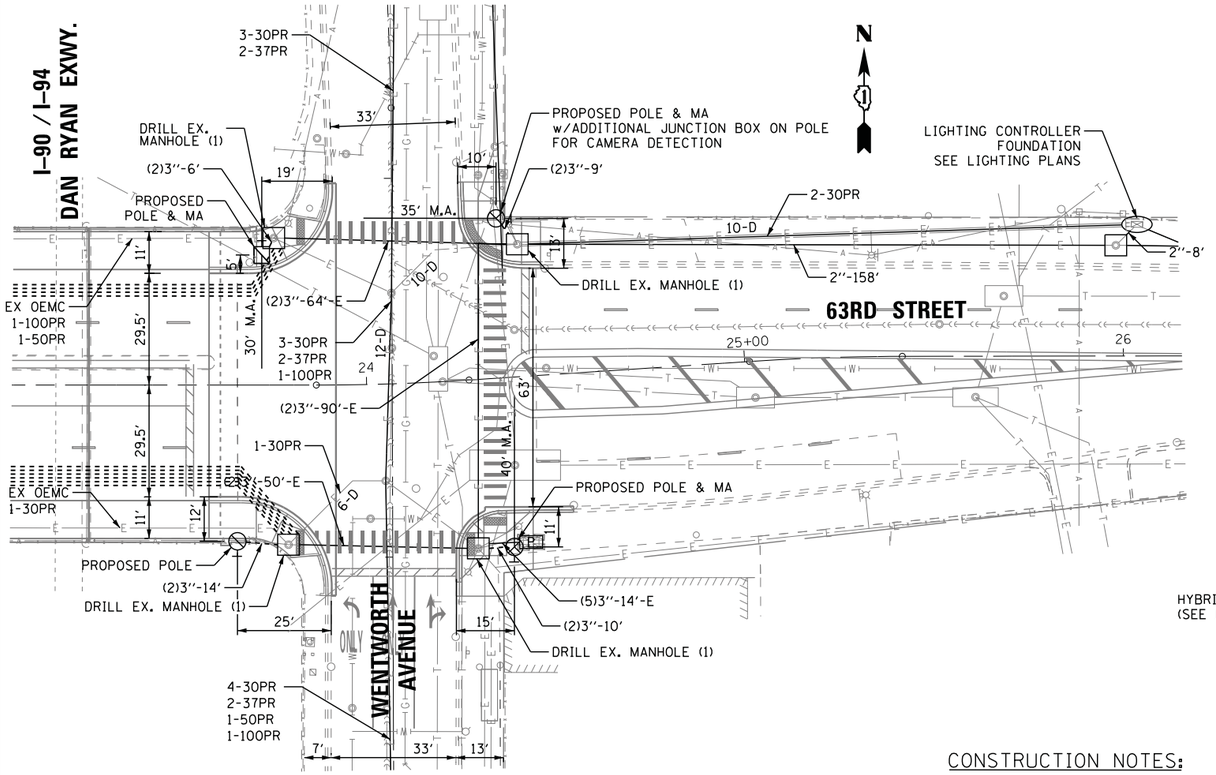
TRAFFIC CONTROL SIGNALS

63RD STREET & YALE AVENUE

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

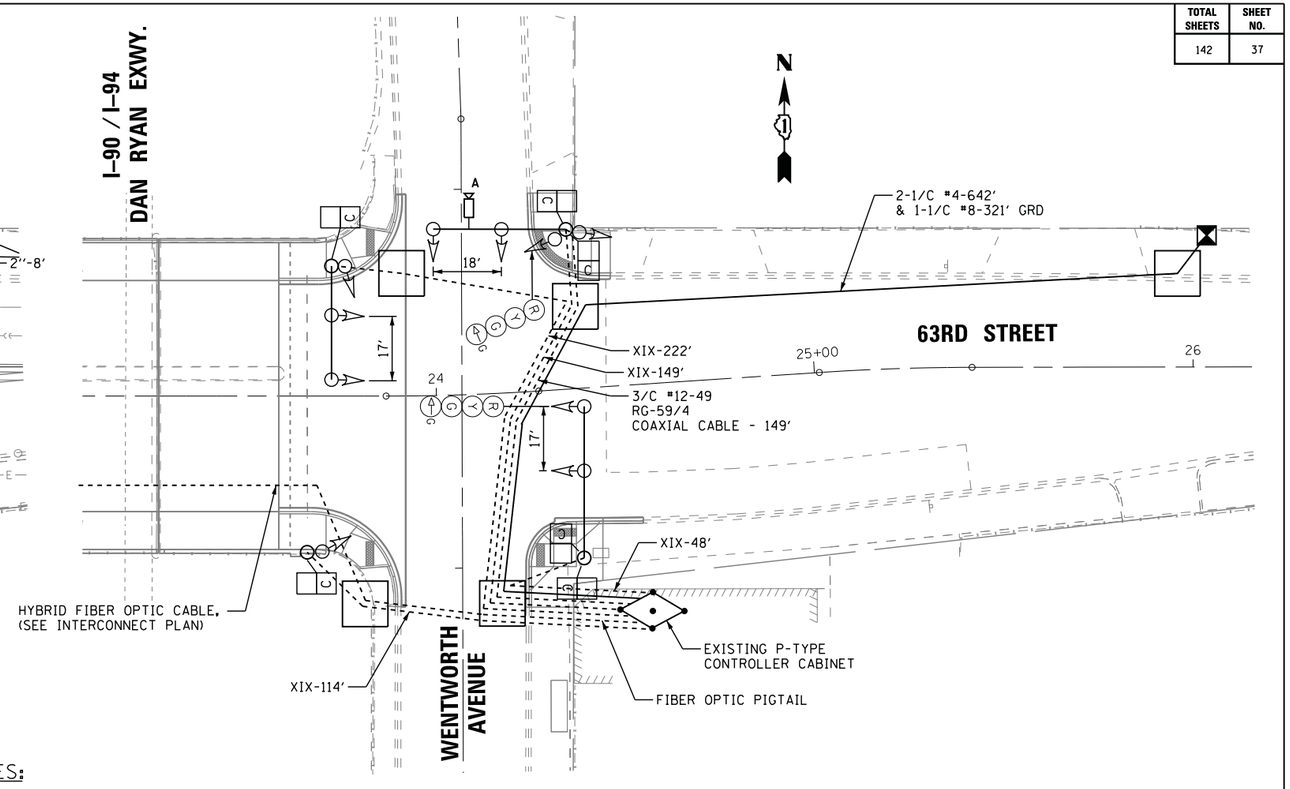
DRAFTSMAN:	CHIEF DRAFTSMAN:	ENGINEER:
SUPERVISING ENGINEER:	ELEC. DESIGN ENGR.	
ENGINEER OF ELECTRICITY:		
GEN'L SUPT. OF ELECTRICITY:		
DEPUTY COMMISSIONER:		
SIZE: 22'' | 34''	SCALE: AS NOTED	DATE: 03-31-2014
DATE:	DWG. NO.	TS-36
I.D.O.T. CONTRACT NO.: 60J15		

3/27/2014 10:52:28 AM c:\pw_work\dlz\ccooney\dms19784\63TSYale.dgn



FOUNDATION AND CONDUIT PLAN

SCALE: 1''=20'



SIGNAL AND CABLE PLAN

SCALE: 1''=20'

GENERAL NOTES:

1. TRAFFIC SIGNAL CONTRACTOR SHALL CONTACT BOE INSPECTION SERVICES AT 312-746-5048 FOR A WALK THROUGH PRIOR TO STARTING ANY ELECTRICAL CONSTRUCTION
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9. PEDESTRIAN SIGNALS TO BE 2 SECTION WITH I.T.E. SYMBOLIC LENSES L.E.D. TYPE. AND COUNT DOWN DISPLAY
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11. ALL MAST ARMS TO BE STEEL MONOTUBE TYPE, SIZE AS NOTED.
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REMOVAL NOTES:

B - BREAKDOWN FOUNDATION

C - REMOVE TRAFFIC SIGNAL POST OR POLE

D - REMOVE TRAFFIC SIGNAL HEAD

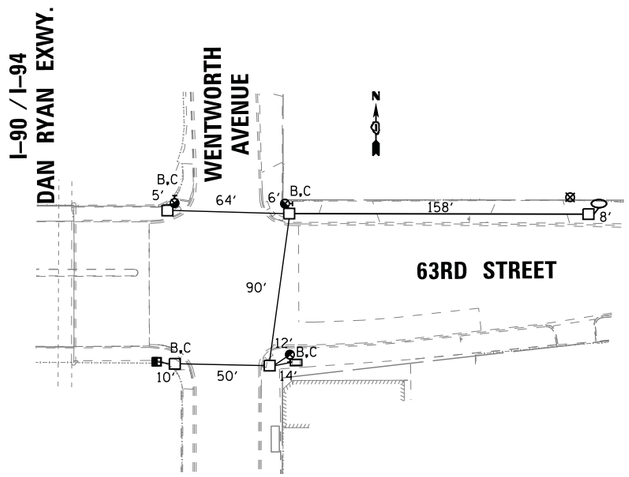
E - REMOVE PEDESTRIAN SIGNAL HEAD

F - RELOCATE UNITRAC VIDEO DETECTION CAMERA

REMOVE CABLE AS NOTED:
XIX - 527' TRAFFIC SIGNAL CABLE

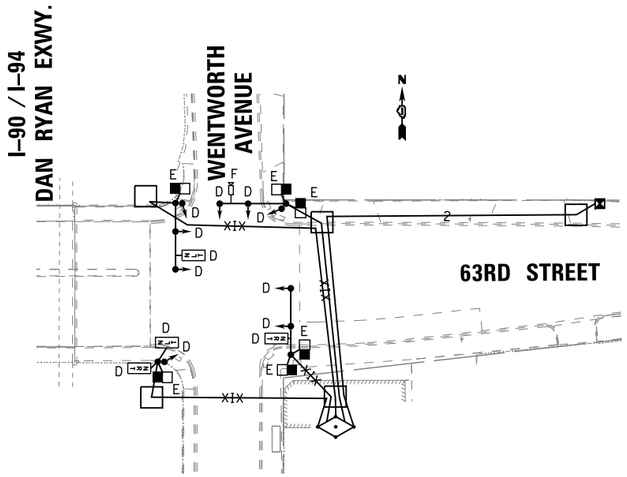
CONSTRUCTION NOTES:

A - RELOCATE UNITRAC VIDEO DETECTION CAMERA



FOUNDATION REMOVAL PLAN

SCALE: NTS



SIGNAL AND CABLE REMOVAL PLAN

SCALE: NTS

20 0 20 40

SCALE: 1'' = 20'-0''

DATE	REVISION

CITY OF CHICAGO

DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING

CONSULTANT:

RWA Regina Webster & Associates, Inc.

WORK ORDER NO. _____ DATE _____

COST ALLOCATION ACCOUNT _____

APPROPRIATION ACCOUNT { MATERIAL _____ LABOR _____

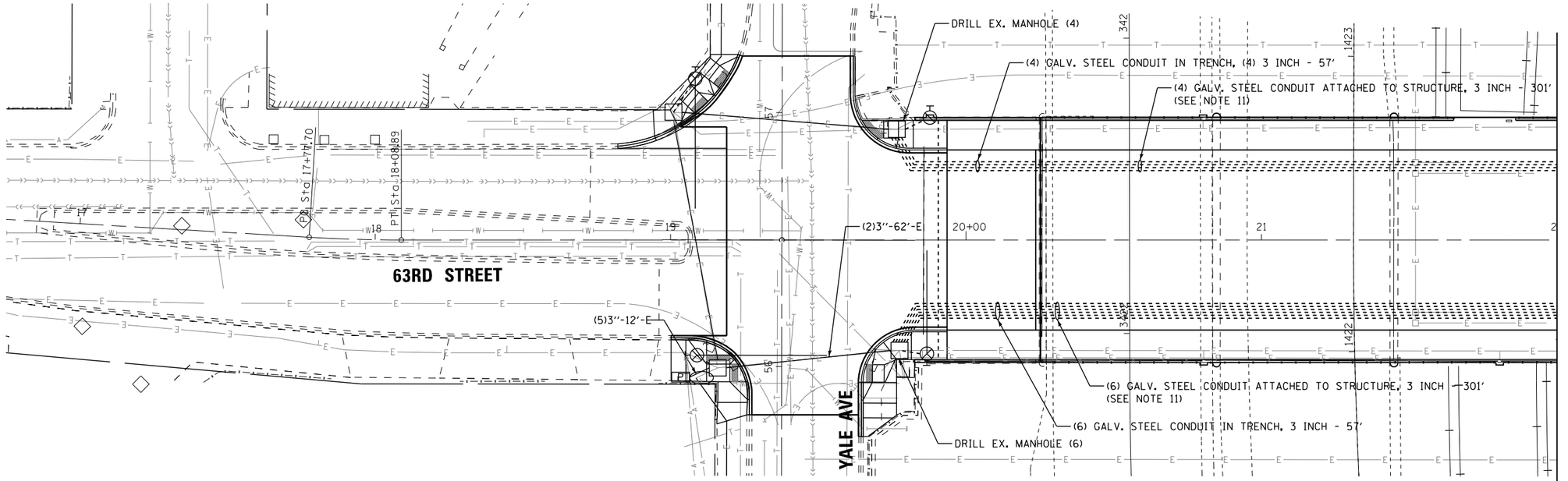
TRAFFIC CONTROL SIGNALS

63RD STREET & WENTWORTH AVENUE

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

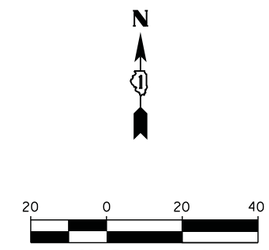
DRAFTSMAN:	CHIEF DRAFTSMAN:	ENGINEER:
SUPERVISING ENGINEER:	ELEC. DESIGN ENGR.	
ENGINEER OF ELECTRICITY:		
GEN'L SUPT. OF ELECTRICITY:		
DEPUTY COMMISSIONER:		
SIZE: 22'' | 34''	SCALE: AS NOTED	DATE: 03-31-2014
DATE:		DWG. NO. TS-37
I.D.O.T. CONTRACT NO.: 60JJ5		

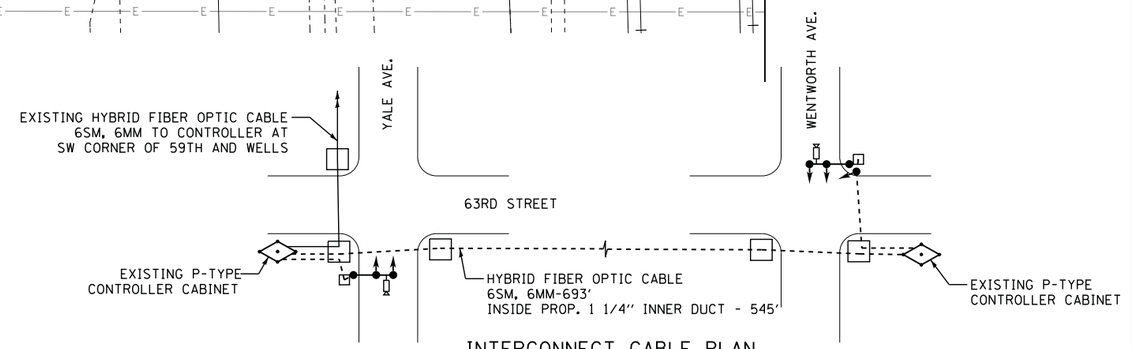
CIVIL ENGINEERING CONSULTANTS
RWA
Regina Webster & Associates, Inc.
8619 W. Bryn Mawr Ave., Suite 602
Chicago, IL 60631-3551
773-283-2600 Fax: 773-283-2602
www.RWAengineers.com



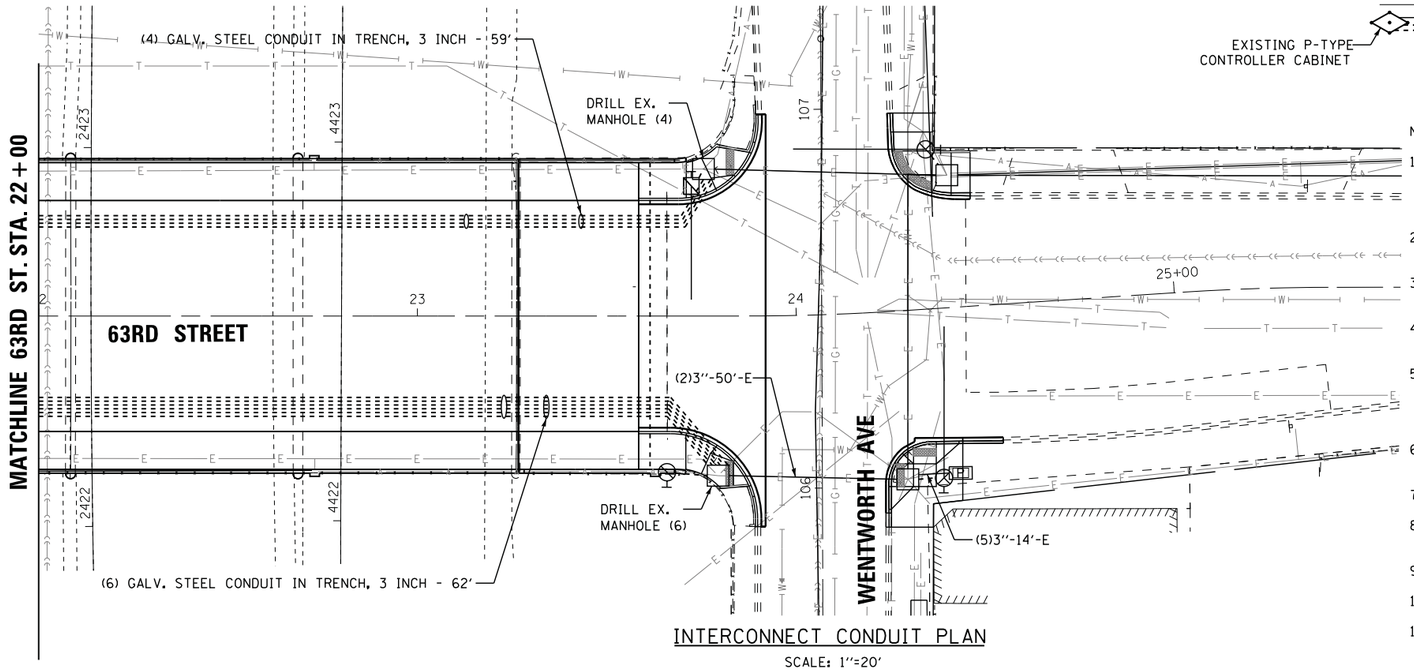
INTERCONNECT CONDUIT PLAN

SCALE: 1"=20'





INTERCONNECT CABLE PLAN



INTERCONNECT CONDUIT PLAN

SCALE: 1"=20'

NOTES:

1. OPTICAL SPLICES, OPTICAL TERMINATIONS, PIGTAILS, PATCHCORDS, MULTIMODE TO SINGLE MODE CONVERTERS, AND HARDWARE AND SOFTWARE REQUIRED, BUT NOT LIMITED TO A FULLY OPERATIONAL SYSTEM AS WELL AS A FUTURE CONNECTION TO A CLOSED LOOP SYSTEM, SHALL BE PAID FOR AS PART OF "CABINET WORK, SPLICING, TESTING AND MISC." ITEM.
2. ALL FIBER OPTIC CABLE RUNS SHALL BE CONTINUOUS FOR THE ENTIRE CORRIDOR WITH NO SPLICES EXCEPT AS APPROVED BY THE BUREAU OF ELECTRICITY.
3. AT NO TIME SHALL BEND RADUIS OR CABLE TENSION EXCEED THE CABLE MANUFACTURER'S SPECIFICATIONS UNDER LOAD AND NO LOAD CONDITIONS.
4. WITHIN MANHOLES, FIBER OPTIC CABLE SHALL BE WITHIN SPLIT FLEXIBLE INNER DUCT THAT IS NEATLY RACKED ON THE MANHOLE WALL.
5. AT THE MANHOLE ADJACENT TO EACH SIGNAL CONTROLLER, A MINIMUM 4-PAIRS OF THE MULTIMODE PIGTAIL SHALL BE SELECTIVELY FUSION SPLICED TO THE CORRESPONDING ACTIVE FIBERS OF THE CABLE RUN. THE PIGTAIL PAIRS MUST CONNECT TO THE FIBER PATCH PANEL IN THE CONTROLLER CABINET THROUGH SINGLE-MODE AND MULTI-MODE FIBERS, IF ANY, MUST NOT BE CUT.
6. ALL BARE FIBERS AND SPLICES MUST BE PROTECTED AND CONTAINED IN OPTICAL SPLICE TRAYS WITHIN THE ENVIRONMENTAL SPLICE ENCLOSURE, AS SPECIFIED.
7. A CABLE LOG MUST BE DEVELOPED BY THE CONTRACTOR AND INCLUDED IN CONTROLLER CABINET.
8. A TRACER WIRE (TRACER COPPER #10) MUST BE PLACED IN CONDUIT WITH FIBER OPTIC FOR UTILITY LOCATION PURPOSES.
9. ALL EXISTING 7-CONDUCTOR INTERCONNECT CABLE MUST BE REMOVED PRIOR TO INSTALLATION OF INNERDUCT.
10. SEE STRUCTURAL PLANS FOR EXACT LOCATION OF CONDUITS ATTACHED TO BRIDGE.
11. ALL CONDUIT SUPPORT SYSTEMS INCLUDING HARDWARE, MATERIALS AND INSTALLATION COST FOR THE CDOT 3" AND 2" GALVANIZED STEEL CONDUITS SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "CONDUIT ATTACHED TO STRUCTURE,, 3" DIA. GALVANIZED STEEL". SEE SHEET E-5 FOR INSTALLATION DETAILS.

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		DRAWN - LV	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - JDH	REVISED -
	PLOT DATE = 3/27/2014	DATE - 03-31-2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

63RD STREET INTERCONNECT PLAN
YALE AVENUE TO WENTWORTH AVENUE

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	38
		CONTRACT NO. 60J15		
		ILLINOIS	FED. AID PROJECT	

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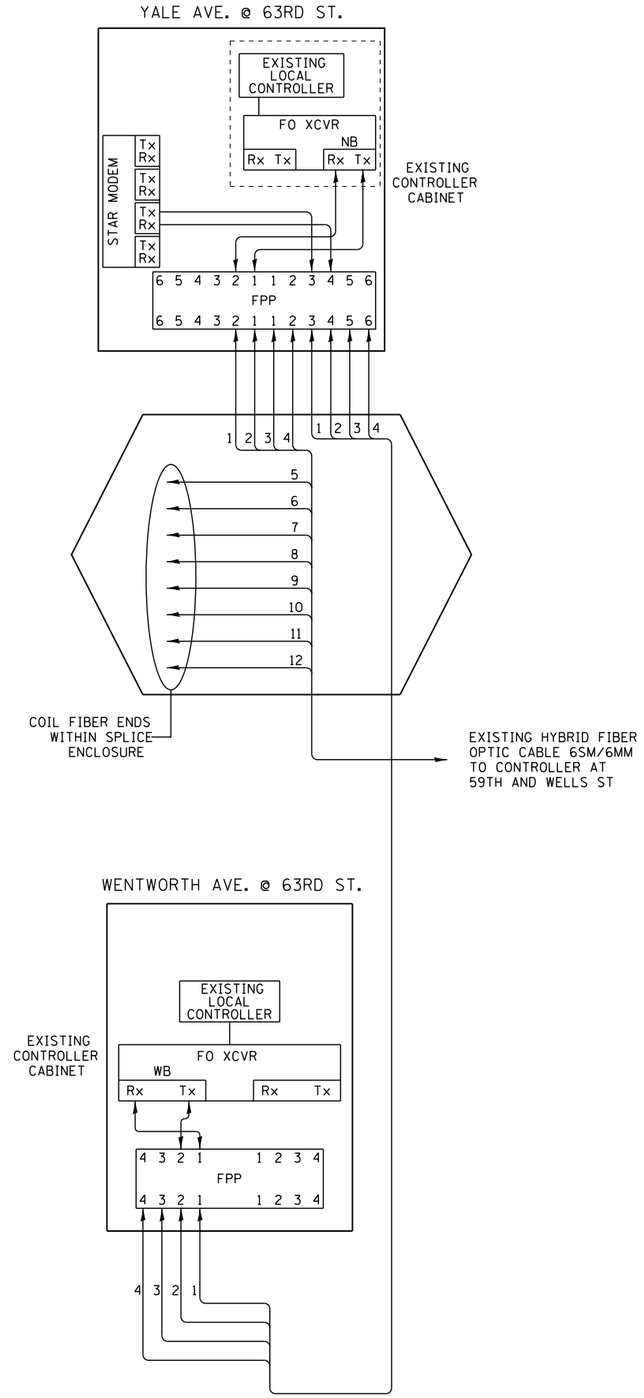
NOTE:

THIS CONTRACTOR SHALL INSTALL OPTICAL SPLICES IN THE EXISTING ENCLOSURE, OPTICAL TERMINATIONS, PIGTAILS, PATCHCORDS, MULTIMODE TO SINGLE MODE CONVERTERS, AND HARDWARE AND SOFTWARE REQUIRED FOR A FULLY OPERATIONAL SYSTEM AND FUTURE CONNECTION TO A CLOSED LOOP SYSTEM. THE COST OF THIS WORK SHALL BE INCLUDED IN "CABINET WORK SPLICING, TESTING AND MISC." ITEM AND SEPARATE PAYMENT WILL NOT BE MADE.



LEGEND

- FIBER OPTIC CABLE
- FO MODEM (SB, NB; Rx Tx / Rx Tx) — ADD/DROP FIBER OPTIC MODEM
- MANHOLE
- MASTER CONTROLLER — MASTER TRAFFIC CONTROLLER
- LOCAL CONTROLLER — LOCAL TRAFFIC CONTROLLER
- 5 5 — FIBER OPTIC SPLICE, OUTSIDE PLANT CABLE NUMBER INDICATES FIBER STRAND IDENTIFIER
- 4 3 2 1 1 2 3 4 / FPP / 4 3 2 1 1 2 3 4 — FIBER PATCH PANEL
- FIBER OPTIC CONNECTORIZED PATCH CORD
- FIBER OPTIC CONNECTORIZED PIGTAIL, SPLICED TO OUTSIDE PLANT CABLE

FIBER SCHEDULE

FIBER	FUNCTION	FIBER TYPE	FIBER COLOR	BUFFER TUBE
1	CONTROLLER MODEM	MULTIMODE	BLUE	BLUE
2	CONTROLLER MODEM	MULTIMODE	ORANGE	BLUE
3	CABINET SPARE	MULTIMODE	GREEN	BLUE
4	CABINET SPARE	MULTIMODE	BROWN	BLUE
5	UNUSED	MULTIMODE	SLATE	BLUE
6	UNUSED	MULTIMODE	WHITE	BLUE
7	UNUSED	SINGLE MODE	BLUE	ORANGE
8	UNUSED	SINGLE MODE	ORANGE	ORANGE
9	UNUSED	SINGLE MODE	GREEN	ORANGE
10	UNUSED	SINGLE MODE	BROWN	ORANGE
11	UNUSED	SINGLE MODE	SLATE	ORANGE
12	UNUSED	SINGLE MODE	WHITE	ORANGE

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		DRAWN - LV	REVISED -
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	PLOT DATE = 3/27/2014	DATE - 03-31-2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

63RD STREET INTERCONNECT
INTERCONNECT CONTROLLER TERMINATION SCHEMATIC

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	39
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

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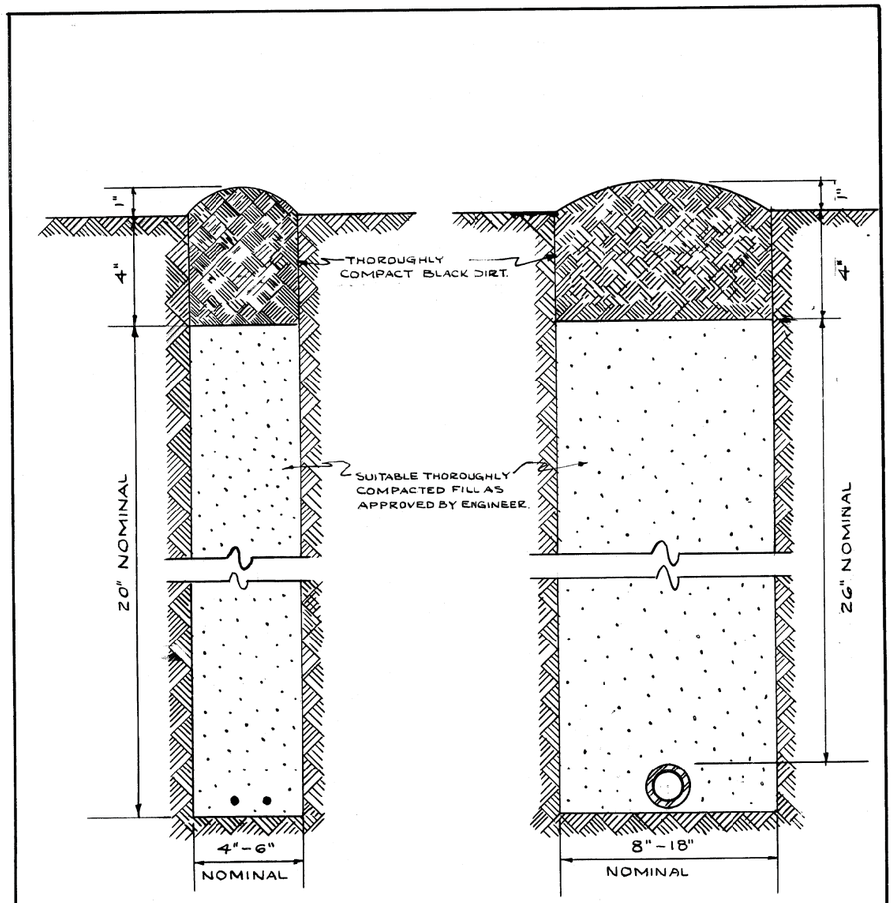


CABLE TRENCH

CONDUIT TRENCH

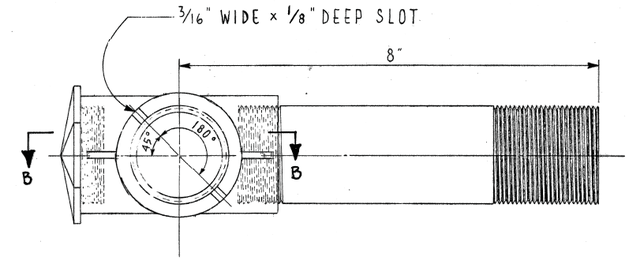
NOTE

EXCESS SOIL FROM TRENCH TO BE COMPLETELY REMOVED FROM SITE AS SOON AS PRACTICABLE.

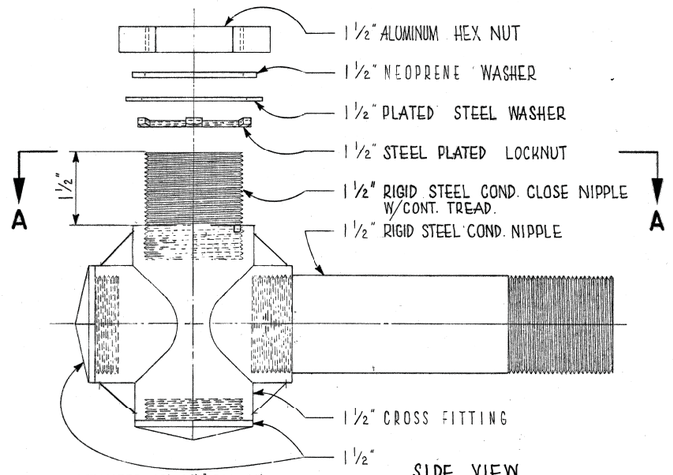
BLACK DIRT TO BE TAMPED & THOROUGHLY COMPACTED AS SHOWN.

STANDARD METHOD FOR BACKFILLING CABLE & CONDUIT TRENCHES IN SODDED PARKWAY & LAWNS

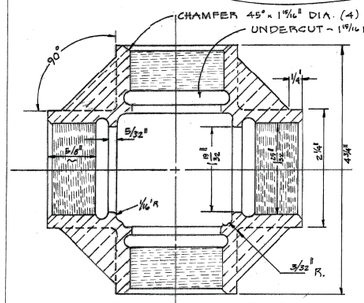
REVISION	CITY OF CHICAGO DEPT. OF STREETS & SANITATION DIVISION OF ELECTRICAL ENGINEERING		
A	DRAWN: W. E. HARP	CHECKED: M. S. Pine	ENGINEER: J. O'CONNOR
B	ENG. IN CHARGE: Daniel D. Bubley		DRG. NO.
C	SUPT. OF CONST.: Joseph T. Boylan		579
D	DEPUTY COMM.: Allen J. Kelley		
E	SIZE: 8½"x14"	SCALE: N	DATE: 7-14-61
F			
G			
H			



TOP VIEW A-A



SIDE VIEW



SECTION B-B

REVISED		DRAWN: E. GERULIS	CHECKED: D.C. / M.S.	ENGINEER: L. OLIVIO
DELETE SET SCREWS	A 1-23-81	ENG. OF ELEC.: Thomas Wildorff		DWG. NO.
ADDED SECTION B-B	B 12-6-85	SUPT. OF CONST.: Joseph Polender		741
	C	DEPUTY COMM.: Charles E. Buckley		
	D	SIZE:	SCALE: 1/2" = 1"	DATE: 8-21-74
	E			
	F			

TRAFFIC SIGNAL BRACKET ARM ASSEMBLY

CITY OF CHICAGO
DEPT. OF STREETS & SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELEC. ENGINEERING

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	PLOT DATE = 3/27/2014	DATE - 03-31-2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

63RD STREET OVER DAN RYAN EXPRESSWAY
CDOT STANDARD DETAILS

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	40
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

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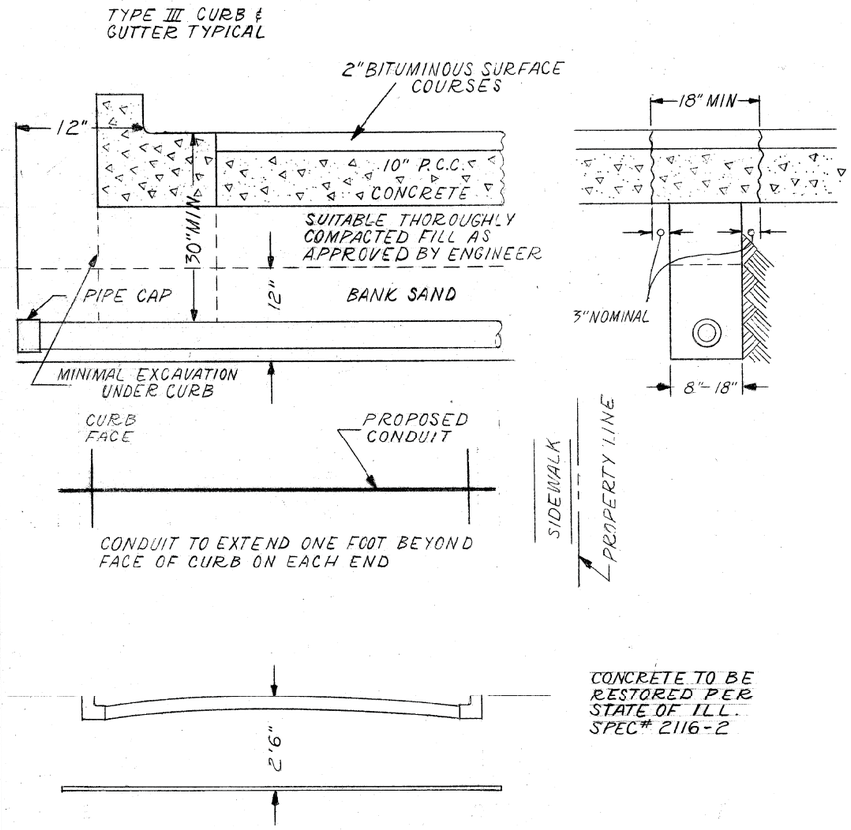
www.RWAengineers.com

CONDUIT INSTALLATION UNDER PAVED STREET



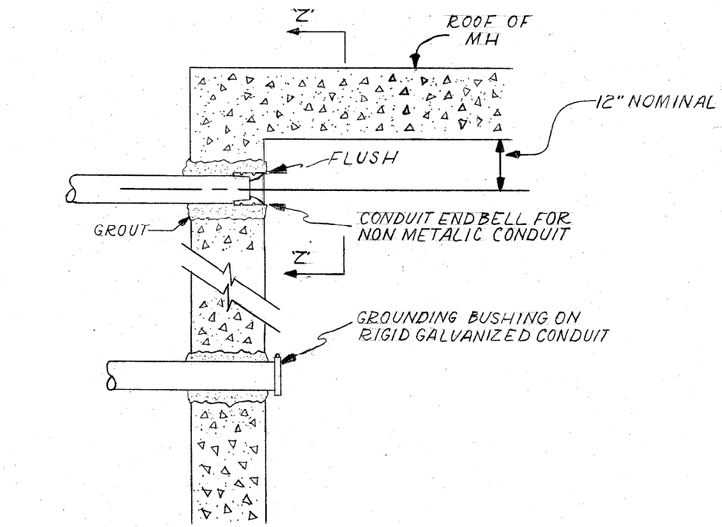
INSTALLATION METHOD OF INSTALLING CONDUIT UNDER PAVED ROADWAY

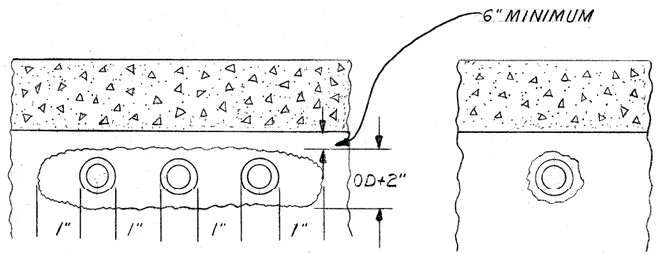
CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICAL ENGINEERING

DRAWN	CHECKED	ENGINEER
A.M. JOHNSON	R. SYCKOWSKI	R.L. MARTIN

ENGINEER OF ELECTRICITY: Thomas Kilduff
SUPT. OF CONSTR.: Charles E. Buckley
DEPUTY COMM.:
DRG. NO. 813
SIZE 8½"X14" SCALE N.T.S. DATE 3-13-81

CONDUIT INSTALLATION THROUGH EXISTING MANHOLE OR HANDHOLE WALL





SECTION 'Z'-'Z'

OPENING THROUGH WALL TO BE KEPT TO MININIMUN 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

ENGINEER OF ELECTRICITY: Thomas Kilduff
SUPT. OF CONSTR.: Charles E. Buckley
DEPUTY COMM.:
DRG. NO. 814
SIZE 8½"X14" SCALE N.T.S. DATE 3-13-81

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	PLOT DATE = 3/27/2014	DATE - 03-31-2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

63RD STREET OVER DAN RYAN EXPRESSWAY
CDOT STANDARD DETAILS

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	41
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

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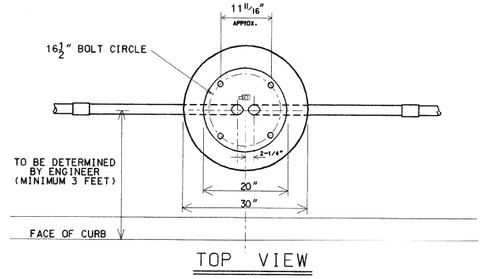
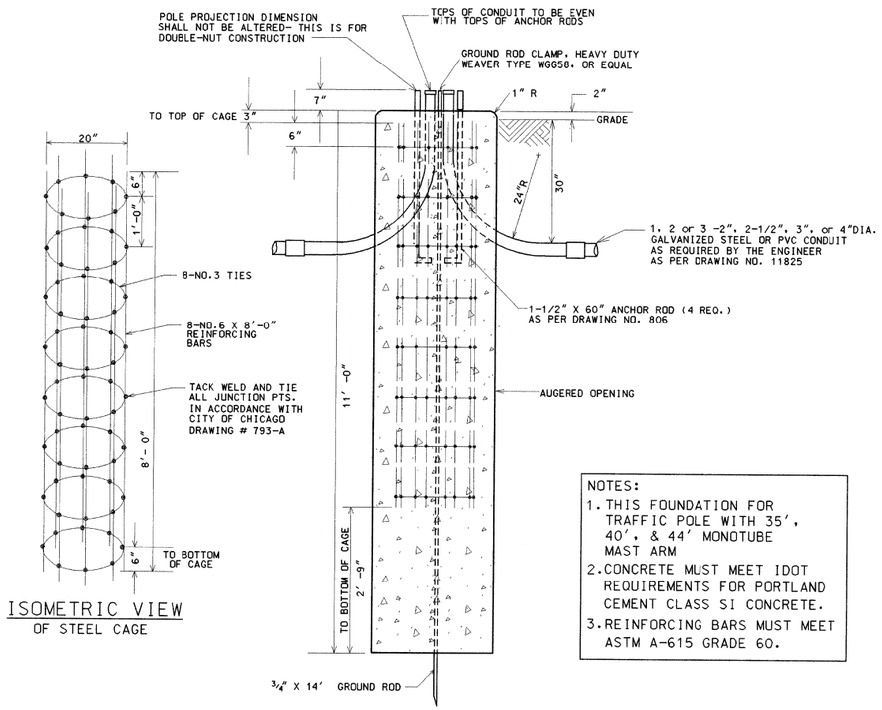


TOP VIEW



ISOMETRIC VIEW
OF STEEL CAGE

ELEVATION

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

NOTE:
HOLE FOR FOUNDATION MUST BE AUGERED IN UNDISTURBED SOIL

CODE	COMMODITY	SIZE	QUANTITY
05-3267-2940	REDI-MIX CONCRETE	CU. YD.	2.20
09-4001-	ELBOW, LARGE RADIUS	2",2-1/2",3",4"	AS REQUIRED
37-8180-0200	ANCHOR ROD	1-1/2" X 60"	4
05-5054-6910	RE-BAR CAGE	20" D X 8'-0"	1
09-7796	GROUND ROD	3/4" X 14'-0"	1
09-2636-	GROUND ROD CLAMP	3/4"	1
09-2092-	GROUND BUSHING	2",2-1/2",3",4"	AS REQUIRED

DATE	REVISION
8/21/02	SUPERCEDES DWG #817 DRAWN 4/20/81

FOUNDATION FOR 34'-6' TRAFFIC SIGNAL POLE WITH 16 1/2" BOLT CIRCLE

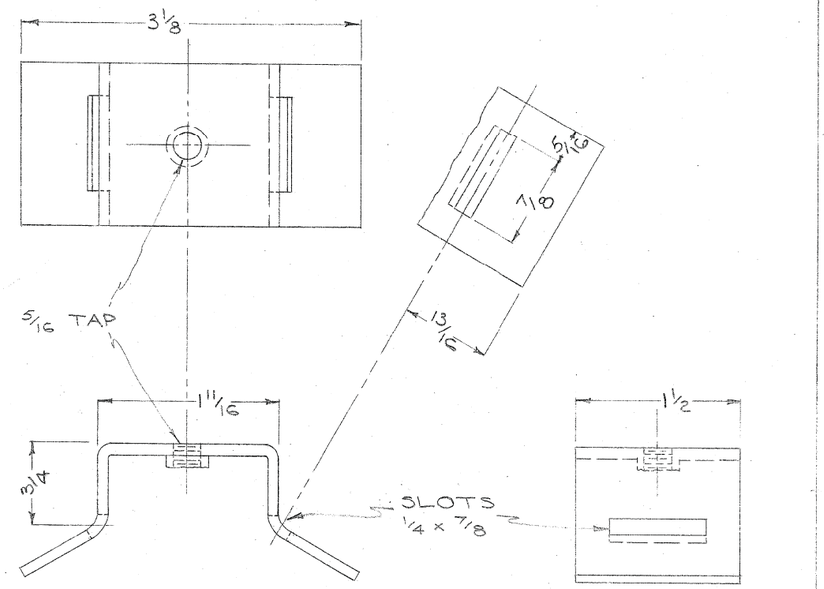
CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
BUREAU OF ELECTRICITY
DIVISION OF ELECTRICAL ENGINEERING

DRAFTSMAN:	CHIEF DRAFTSMAN:	ENGINEER:
B. GARNSEY	R. CARTER	B. GARNSEY

ELECTRICAL TESTING ENGINEER
ENGINEER OF ELECTRICITY
GENERAL SUPERINTENDENT
DEPUTY COMMISSIONER

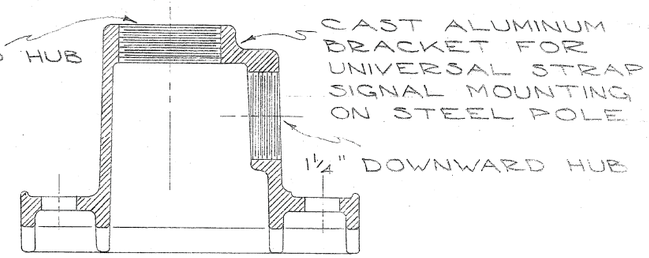
DRAWING NO. 817
SIZE: 11" x 17"
SCALE: NONE
DATE: 8/21/02

BANDING FITTING FOR POLE MOUNTING JUNCTION BOX



MATERIAL: STAINLESS STEEL - 4 13/16 x 1 1/2 x 3/32

BANDING FITTING FOR POLE MOUNTING SIGNALS



MATERIAL: CAST ALUMINUM

CROUSE HINDS
TL-3301 - WITHOUT DOWNWARD HUB
TL-3302 WITH 1 1/4" DOWNWARD HUB

BANDING FITTINGS FOR POLE MOUNTING TRAFFIC SIGNAL
CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
DIVISION OF ELECTRICAL ENGINEERING
DRAWN | CHECKED | ENGINEER
ENGINEER IN CHARGE | DRG. NO. 11984
SUPT. OF CONST. | SIZE 8 1/2 x 14" 11-14-67
DEPUTY COMM.

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	PLOT DATE = 3/27/2014	DATE - 03-31-2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

63RD STREET OVER DAN RYAN EXPRESSWAY
CDOT STANDARD DETAILS

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	42
		CONTRACT NO. 60J15		
	ILLINOIS	FED. AID PROJECT		

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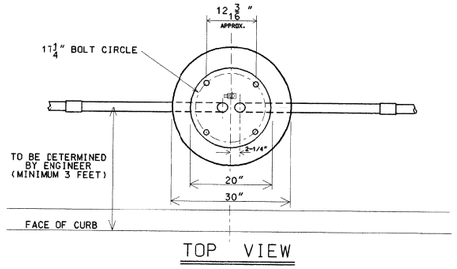
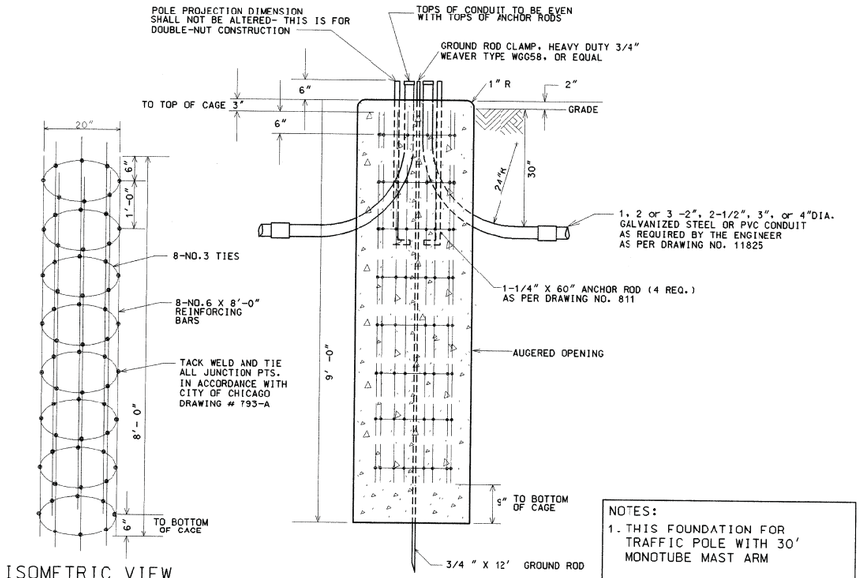


TOP VIEW



ISOMETRIC VIEW
OF STEEL CAGE

ELEVATION

NOTES:
1. THIS FOUNDATION FOR TRAFFIC POLE WITH 30' MONOTUBE MAST ARM
2. CONCRETE MUST MEET IDOT REQUIREMENTS FOR PORTLAND CEMENT CLASS SI CONCRETE.
3. REINFORCING BARS MUST MEET ASTM A-615 GRADE 60.

NOTE:
HOLE FOR FOUNDATION MUST BE AUGERED IN UNDISTURBED SOIL

CODE	COMMODITY	SIZE	QUANTITY
05-3267-2940	REDI-MIX CONCRETE	CU. YD.	1.65
09-4001-	ELBOW, LARGE RADIUS	2",2-1/2",3",4"	AS REQUIRED
37-8180-0200	ANCHOR ROD	1-1/4" X 60"	4
05-5054-6910	RE-BAR CAGE	20" Ø X 8'-0"	1
09-7796-3200	GROUND ROD	3/4" X 12'-0"	1
09-2636-3240	GROUND ROD CLAMP	3/4"	1
09-2092-	GROUND BUSHING	2",2-1/2",3",4"	AS REQUIRED

DATE	REVISION
8/21/02	SUPERCEDES DWG #816 DRAWN 9/22/81

FOUNDATION FOR 34'-6" TRAFFIC SIGNAL POLE WITH 17 1/2" BOLT CIRCLE

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

DRAFTSMAN:	CHIEF DRAFTSMAN:	ENGINEER:
B. GARNSEY	R. CARTER	B. GARNSEY

ELECTRICAL SECTION ENGINEER
ENGINEER OF ELECTRICITY
GENERAL SUPERINTENDENT
DEPUTY COMMISSIONER

DRAWING NO. 816

SIZE: 11" x 17" SCALE: NONE DATE: 8/21/02

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	PLOT SCALE = $SCALE$	CHECKED - JDH	REVISED -
	PLOT DATE = 3/27/2014	DATE - 03-31-2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

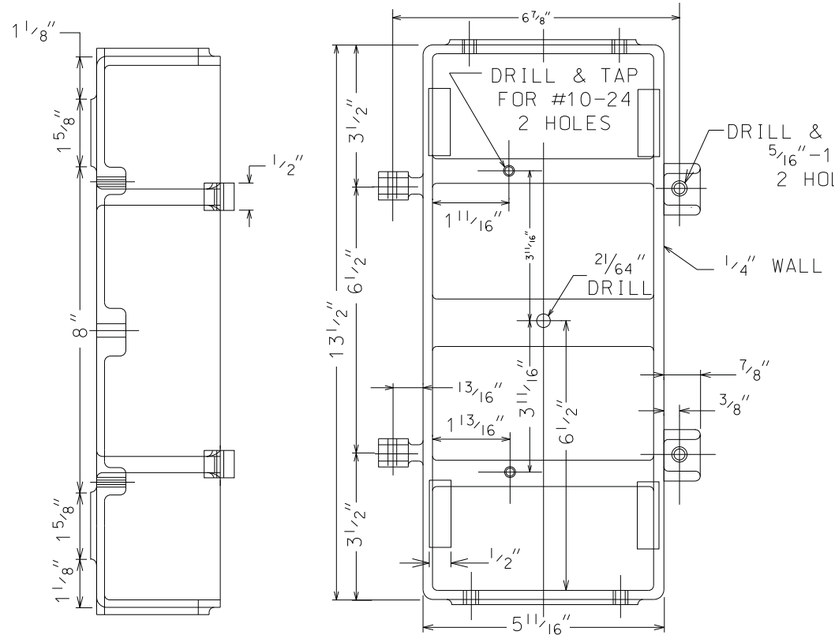
63RD STREET OVER DAN RYAN EXPRESSWAY
CDOT STANDARD DETAILS

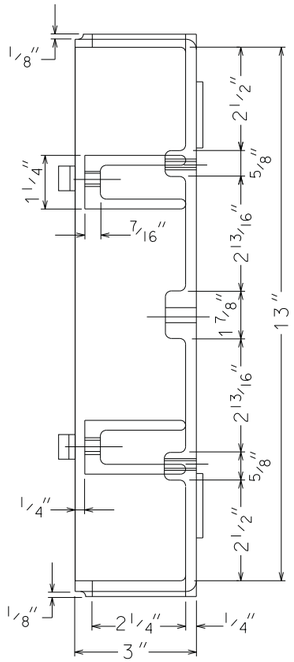
SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	43
		CONTRACT NO. 60J15		
		ILLINOIS FED. AID PROJECT		

CIVIL ENGINEERING CONSULTANTS
RWA
Regina Webster & Associates, Inc.
8619 W. Bryn Mawr Ave., Suite 602
Chicago, IL 60631-3551
773-283-2600 Fax: 773-283-2602
www.RWAengineers.com

BODY





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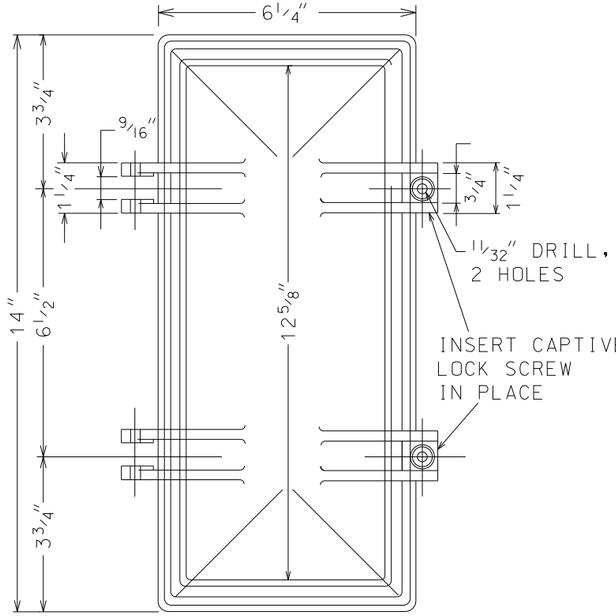

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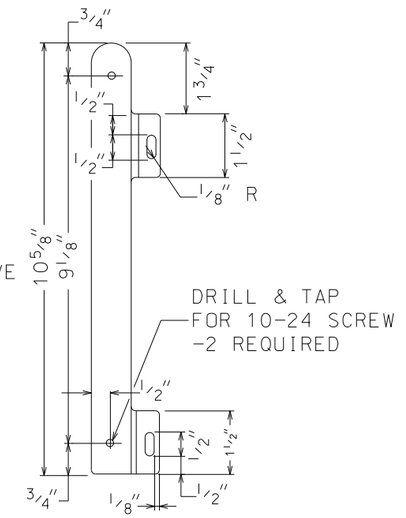
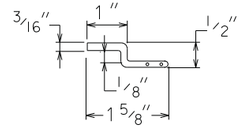
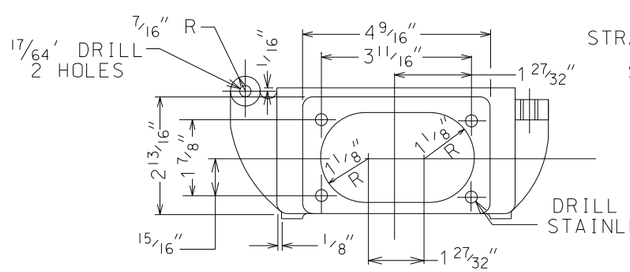
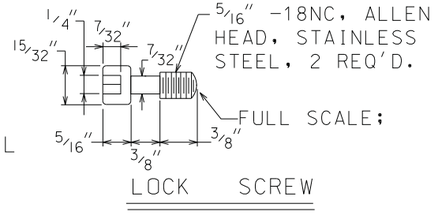


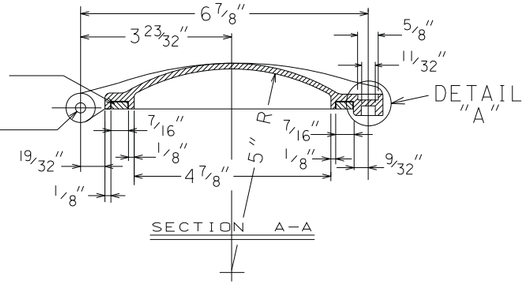


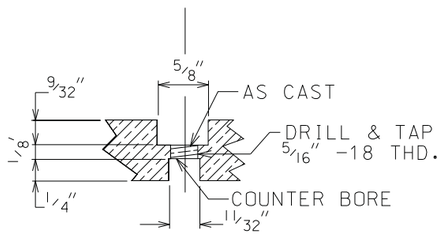




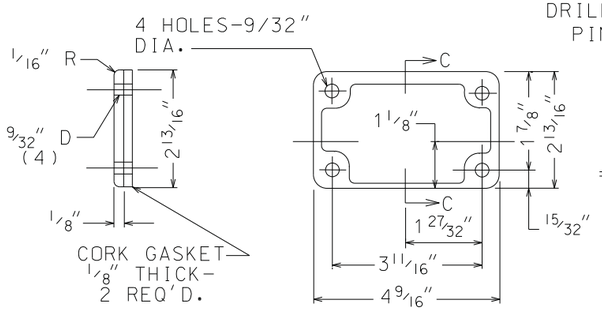
LOCK SCREW

SPONGE NEOPRENE GASKET 3/16" x 7/16" CEMENTED IN PLACE AFTER PAINTING OF JUNCTION BOX & DOOR.





DETAIL "A"



FLAT PLATE

MATERIAL:

BODY, DOOR & FLAT PLATE- CAST ALUM. ALLOY
MOUNTING BRACKET-ALUMINUM ALLOY
SCREWS & HINGE PINS-STANLESS STEEL.

NOTE:

CORK GASKETING 1/8" THICK, TO BE FURNISHED BETWEEN FLAT PLATE AND BODY.

A	10-18 96	REDRAW MP.
	DATE	

JUNCTION BOX FOR TRAFFIC & FIRE ALARM

832

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		DRAWN - LV	REVISED -
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	PLOT DATE = 3/27/2014	DATE - 03-31-2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

63RD STREET OVER DAN RYAN EXPRESSWAY
CDOT STANDARD DETAILS

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	44
		CONTRACT NO. 60J15		
		ILLINOIS FED. AID PROJECT		

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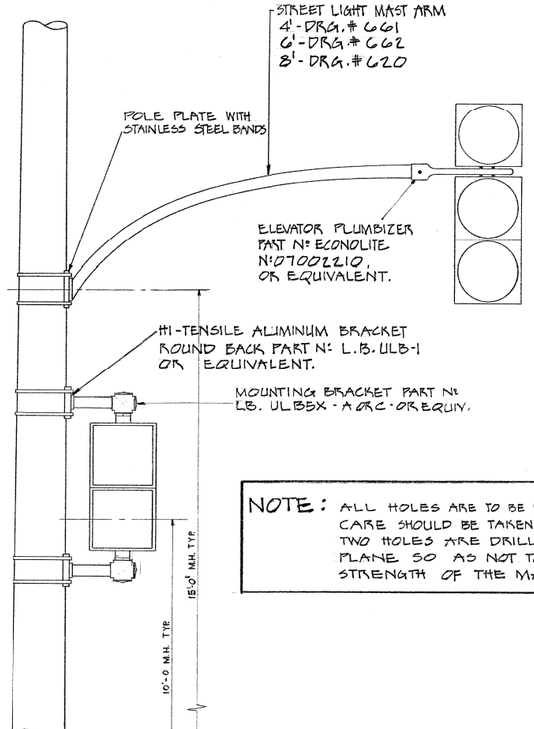
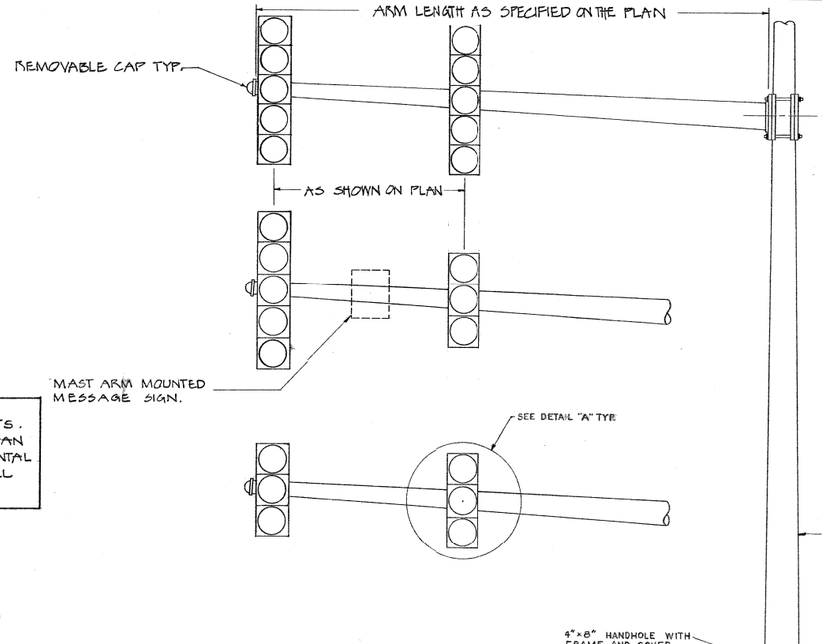
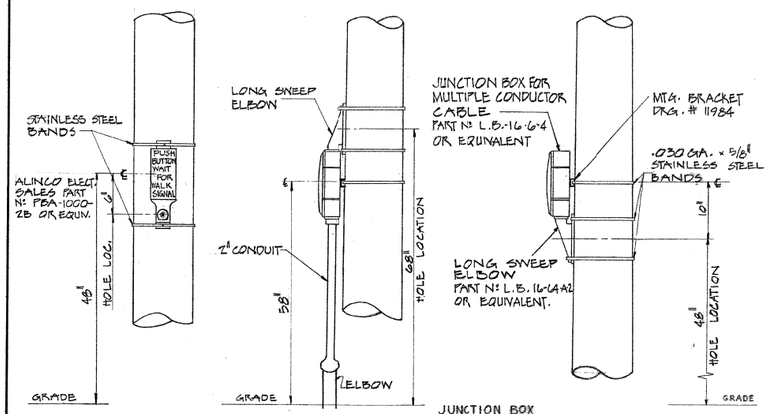
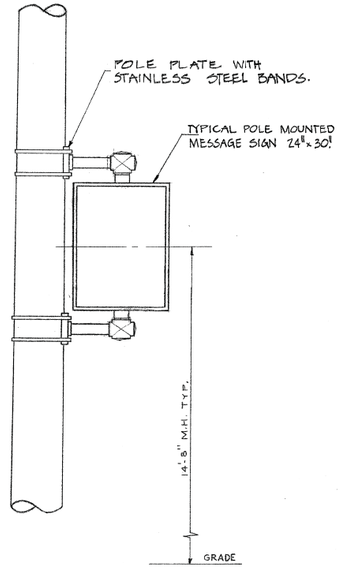


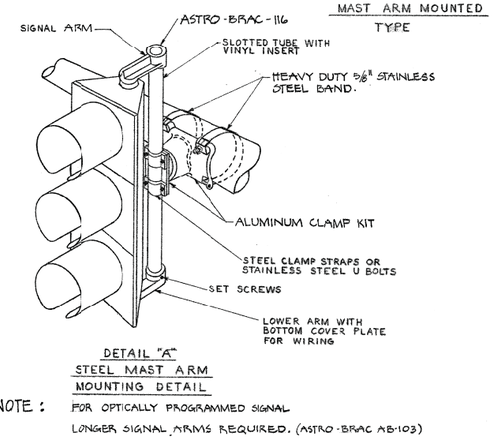
NOTE: ALL HOLES ARE TO BE DRILLED IN POLES OR POSTS. CARE SHOULD BE TAKEN TO SEE THAT NO MORE THAN TWO HOLES ARE DRILLED IN THE SAME HORIZONTAL PLANE SO AS NOT TO WEAKEN THE OVERALL STRENGTH OF THE MATERIAL.



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







DETAIL "A"
STEEL MAST ARM MOUNTING DETAIL

NOTE: FOR OPTICALLY PROGRAMMED SIGNAL LONGER SIGNAL ARMS REQUIRED. (ASTRO-BRAC AB-103)

APPROVED AS WORKING PLAN					
BY					
REVISIONS OF WORKING PLAN					

FEDERAL-AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FHWA REG. NO.	ILLINOIS	PROJECT		

A	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: K. Fujioka	CHIEF DRAFTSMAN: R.J.S.	ENGINEER: M. DeBartolo
SUPERVISING ENGINEER:	ELECT. DESIGN ENGR.: R.P. Martin	DWG. NO. 834
ENGINEER OF ELECTRICITY: Michael J. Sheridan		
GENL. SUPT. OF ELECTRICITY: [illegible]		
DEPUTY COMMISSIONER: Ronald L. Taylor		
SIZE:	SCALE: N.T.S.	DATE: 12-10-84

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	PLOT DATE = 3/27/2014	DATE - 03-31-2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

63RD STREET OVER DAN RYAN EXPRESSWAY
CDOT STANDARD DETAILS

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	45
		CONTRACT NO. 60J15		
	ILLINOIS	FED. AID PROJECT		

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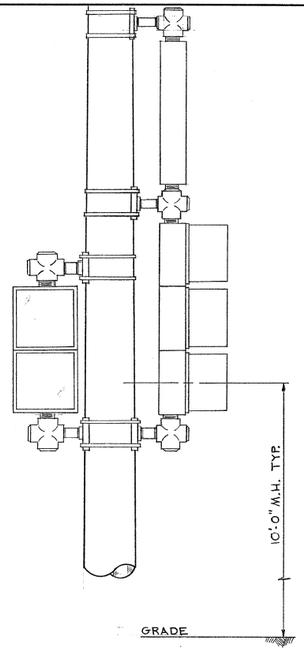
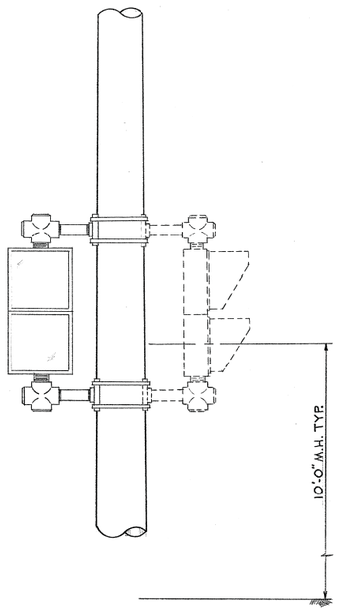
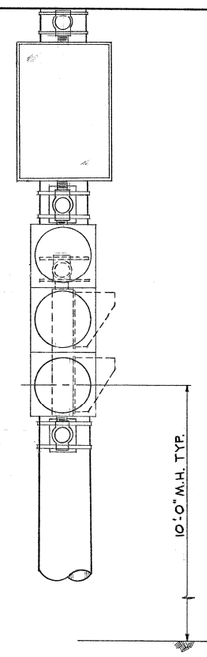
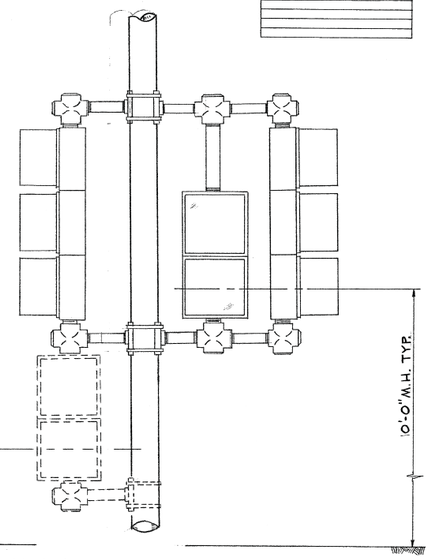


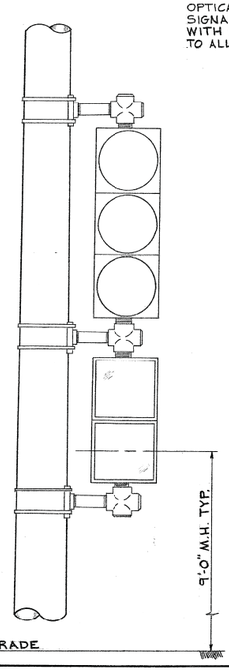




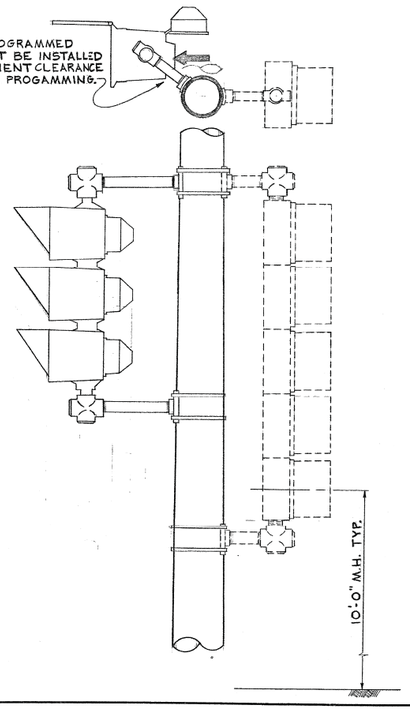


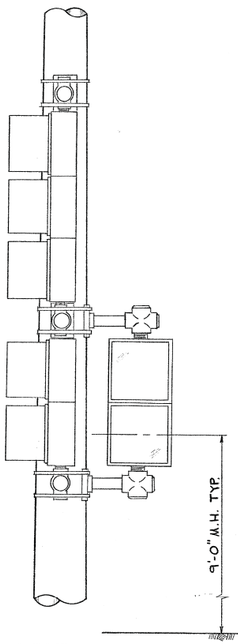
NOTE:
OTHER METHODS OF ATTACHING HARDWARE FOR SIGNAL HEADS MAY BE USED UPON APPROVAL OF THE BUREAU OF ELECTRICITY.

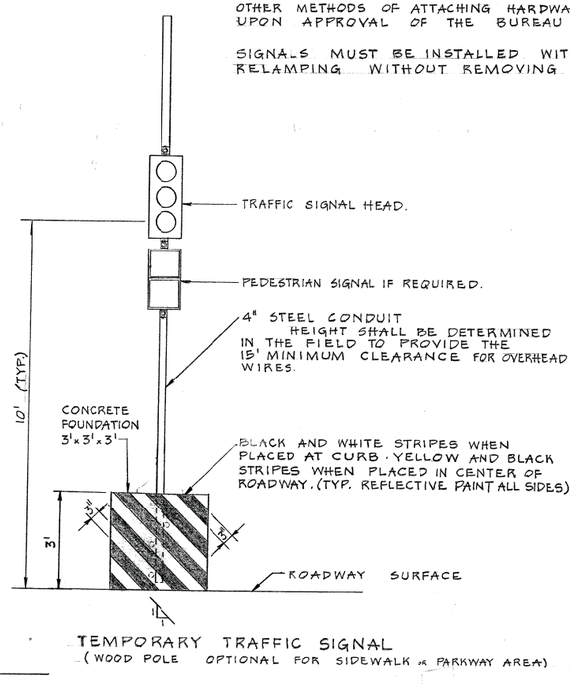
SIGNALS MUST BE INSTALLED WITH ADEQUATE CLEARANCE FOR RELAMPING WITHOUT REMOVING VISOR OR ROTATING SIGNAL.



OPTICALLY PROGRAMMED SIGNALS MUST BE INSTALLED WITH SUFFICIENT CLEARANCE TO ALLOW FOR PROGAMMING.







TEMPORARY TRAFFIC SIGNAL
(WOOD POLE OPTIONAL FOR SIDEWALK OR PARKWAY AREA)

APPROVED AS WORKING PLAN
BY
REVISIONS OF WORKING PLAN

FEDERAL AID ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FHWA REG. NO.	ILLINOIS	PROJECT		

DATE	REVISION
A 3-5-93	ADDED TEMP. SIGNAL DETAIL

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:	CHIEF DRAFTSMAN:	ENGINEER:
W. TROMPKA	R. J. S.	M. De BARTOLO

SUPERVISING ENGINEER:	ELECT. DESIGN ENGR.:	DWG. NO.
ENGINEER OF ELECTRICITY: Michael J. Shine		835
GEN. SUPT. OF ELECTRICITY:		
DEPUTY COMMISSIONER:		
SIZE: 22 | 36	SCALE: NONE	DATE: 12-10-84

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	PLOT DATE = 3/27/2014	DATE - 03-31-2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

63RD STREET OVER DAN RYAN EXPRESSWAY
CDOT STANDARD DETAILS

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	46
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

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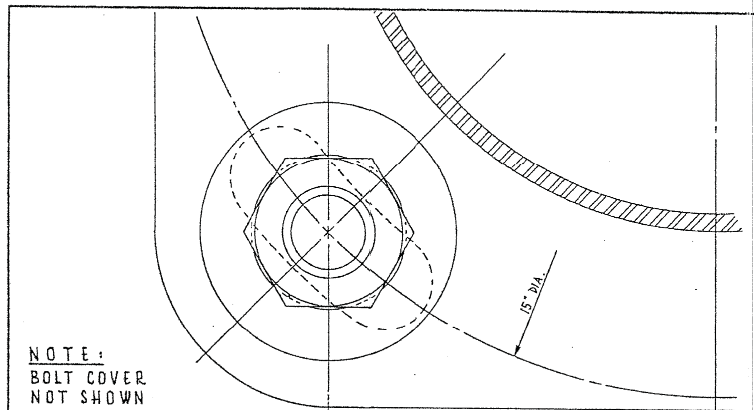
www.RWAengineers.com



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.

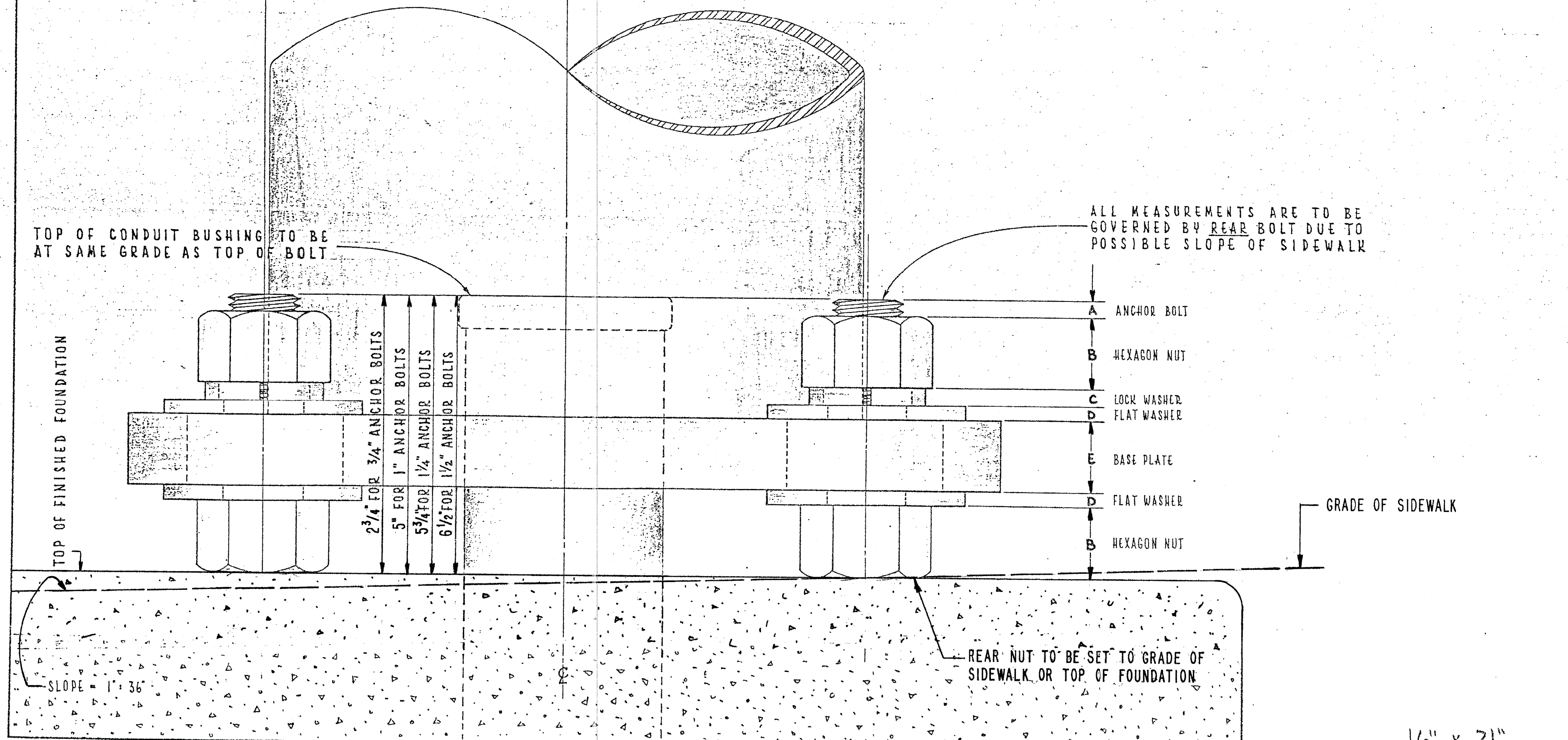
STEP 7 POLE OR PEDESTAL IS TO BE PERFECTLY PLUMB, NO "RAKE" IS TO BE LEFT. .

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.

TABLE

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



16" x 21"

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

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

DRAFTSMAN: EUGENE GERULIS	CHIEF DRAFTSMAN: R.J.S.	ENGINEER: M.J.S.
SUPERVISING ENGINEER:	ELEC. DESIGN ENGR.	DWG. NO. 837
ENGINEER OF ELECTRICITY: Michael A. Shue		
GEN'L. SUPT. OF ELECTRICITY		
DEPUTY COMMISSIONER: Ronald E. Gruysford		
SIZE: 22 3 1	SCALE: 1" = 1"	DATE: 6-7-85

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

63RD STREET OVER DAN RYAN EXPRESSWAY
CDOT STANDARD DETAILS

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	47
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

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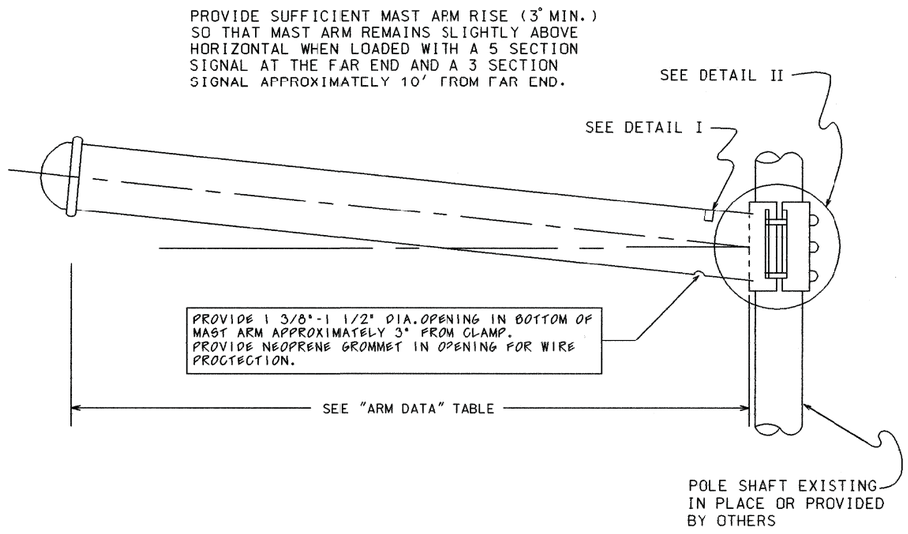
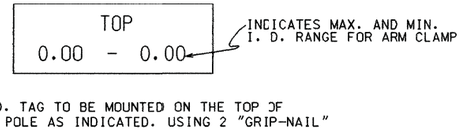


ARM DATA

CLAMP RANGE (INCHES)	POLE END (INCHES)	SIGNAL END (INCHES)	LENGTH (FEET)	GAUGE	WEIGHT (POUNDS)	TEST LOAD (POUNDS)	MAX. DEFLECTION (INCHES)
7.45-7.95	7.0	4.76	16	7	241	1700	6.5
7.45-7.95	7.0	4.20	20	7	274	1300	12.0
7.45-7.95	7.0	3.36	26	7	315	1000	24.0
8.45-8.95	8.0	3.80	30	7	409	1100	29.0
9.95-10.45	9.0	4.10	35	7	529	1200	36.0
9.95-10.45	9.0	3.40	40	7	559	1000	52.0
9.95-10.45	10.0	3.84	44	7		1200	57.0

NOTES:

1. TRAFFIC SIGNAL ARM SHAFT ASTM DESIGNATION: A595 GRADE C, 60,000 PSI MINIMUM YIELD STRENGH WITH A LINEAR TAPER -0.14"/FT.
2. TRAFFIC SIGNAL ARM END CAP SECURED IN PLACE WITH 3 SET SCREWS AND 1 THRU ARM END BOLT. (PLATED HARDWARE)
3. ALL THREADED FASTENERS TO BE GALVANIZED TO ASTM DESINATION: A153
4. ALL VEHICULAR AND/OR PEDESTRIAN SIGNAL LIGHTS AND NECESSARY HARDWARE FOR ATTACHMENT TO BE FIELD LOCATED AND FURNISHED BY OTHERS.
5. ALL ARM END CAPS AND ARM CLAMPS TO BE FULLY ASSEMBLED AND ATTACHED TO THE ARM PRIOR TO SHIPPING.
6. ARM ASSEMBLY TO BE DEGREASED; CLEANED; CHEMICALLY PRETREATED; GIVEN AN EXTERIOR THERMOSETTING POLYESTER POWDER COAT; AND AN INTERIOR THERMOPLASTIC HYDROCARBON RESIN POWDER COAT.
   ALL PAINTING TO BE IN ACCORDANCE WITH SPECIFICATION 1454, SECTION 8, "PAINTING".
7. MAST ARM SHALL BE TESTED IN ACCORDANCE WITH SPECIFICATION 1454, SECTION 9 WITH TEST VALUES AS SHOWN ON THE "ARM DATA" TABLE.
8. HOLE IN CLAMP TO BE 4.0" (MIN.). HOLE TO BE GROUND SMOOTH AND DEBURRED TO PROVIDE A SMOOTH WIRE ENTRY FROM POLE TO MAST ARM.

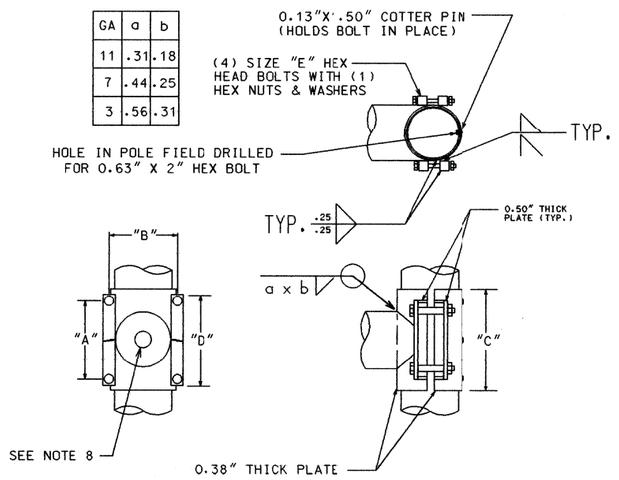


I. D. TAG TO BE MOUNTED ON THE TOP OF THE POLE AS INDICATED. USING 2 "GRIP-NAIL" FASTENERS.

DETAIL I

I. D. TAG

SIGNAL ARM ATTACHMENT DATA					
CLAMP RANGE	"A"	"B"	"C"	"D"	"E"
7.45" - 7.95"	7.25"	9.92"	10.80"	10.32"	1.00" X 7.50"
8.45" - 8.95"	9.00"	10.66"	13.06"	12.50"	1.00" X 8.00"
9.95" - 10.45"	10.25"	12.66"	15.30"	13.50"	1.25" X 8.50"



DETAIL II

ARM ATTACHMENT

B	10-29-02	REFERENCES SPEC. 1454
A	8-6-93	WIRE OPENING ON MAST ARM
DATE		REVISION

SUPERSEDES DWG. DATED DEC. 1991

STEEL TRAFFIC SIGNAL MAST ARM-MONOTUBE

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

DRAFTSMAN:	CHIEF DRAFTSMAN:	ENGINEER:
R. IVY	ROBERT CARTER	RON POOL

SUPERVISING ENGINEER
ELEC. INSPECTION ENGR.
ENGINEER OF ELECTRICITY
GEN'L. SUPT. OF ELECTRICITY
DEPUTY COMMISSIONER:

870

SIZE: 16" | 22" SCALE: DATE: DEC. 1991

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	PLOT DATE = 3/27/2014	DATE - 03-31-2014	REVISED -

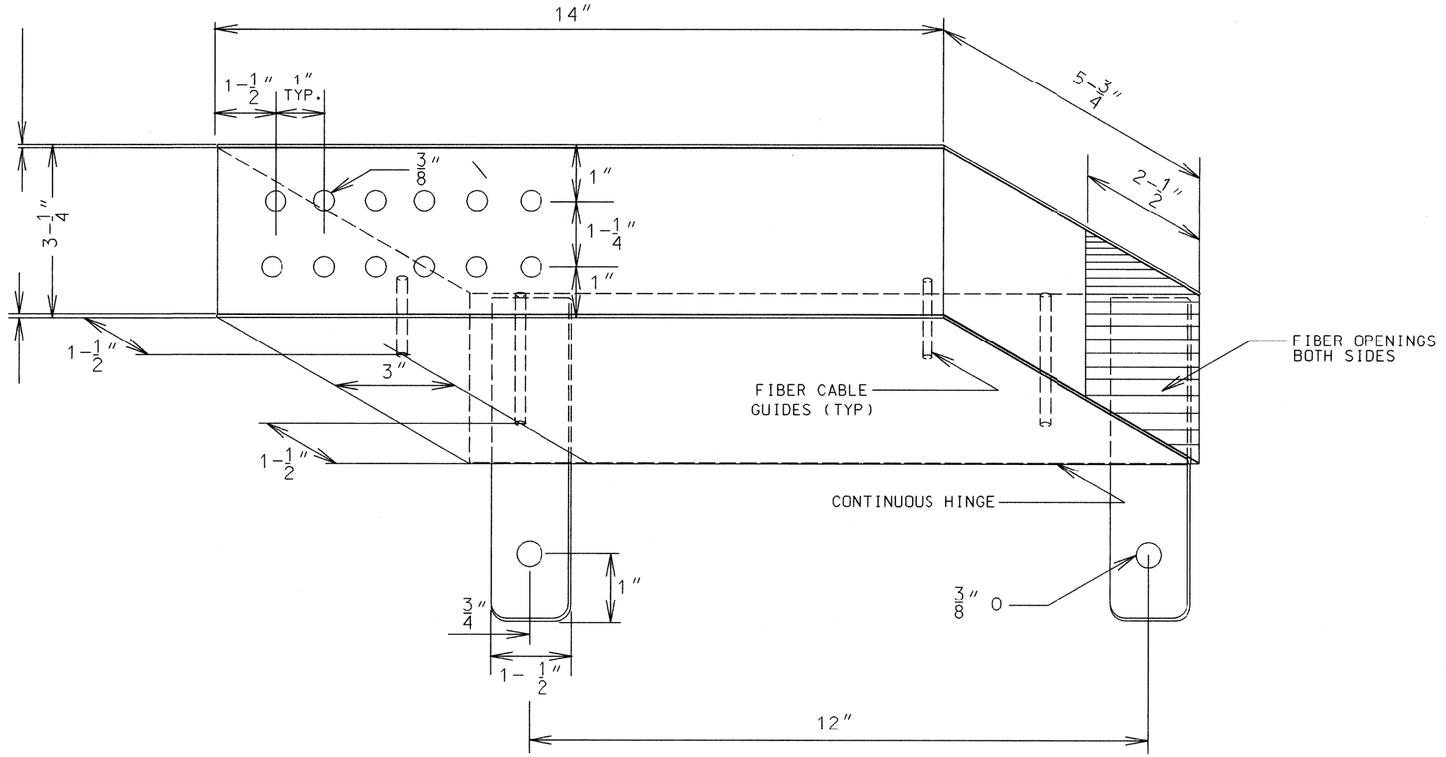
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

63RD STREET OVER DAN RYAN EXPRESSWAY
CDOT STANDARD DETAILS

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	48
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

CIVIL ENGINEERING CONSULTANTS
RWA
Regina Webster & Associates, Inc.
8619 W. Bryn Mawr Ave., Suite 602
Chicago, IL 60631-3551
773-283-2600 Fax: 773-283-2602
www.RWAengineers.com



FIBER OPTIC PATCH PANEL
FOR CITY OF CHICAGO TRAFFIC SIGNAL CONTROLLER

THIS PANEL WAS SUPPLIED FOR C.B.D. INTERCONNECT
AND IS TO BE THE STANDARD FOR ALL CITY INSTALLATIONS

FIBER OPTIC PATCH PANEL

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

DRAFTSMAN: ROBERT IVY	CHIEF DRAFTSMAN: ROBERT CARTER	ENGINEER: WALTER TROMPKA
SUPERVISING ENGINEER:	ELEC. DESIGN ENGR.	DWG. NO. 909
ENGINEER OF ELECTRICITY:		
GEN'L SUPT. OF ELECTRICITY:		
DEPUTY COMMISSIONER: Brian S. Murphy		
SIZE:	SCALE:	DATE: 11-01-02

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		DRAWN - LV	REVISED -	
	PLOT SCALE = $SCALE$	CHECKED - JDH	REVISED -	
	PLOT DATE = 3/27/2014	DATE - 03-31-2014	REVISED -	

63RD STREET OVER DAN RYAN EXPRESSWAY
CDOT STANDARD DETAILS

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	49
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

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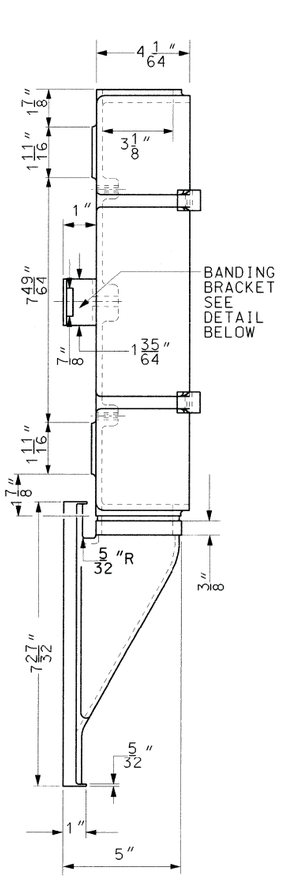

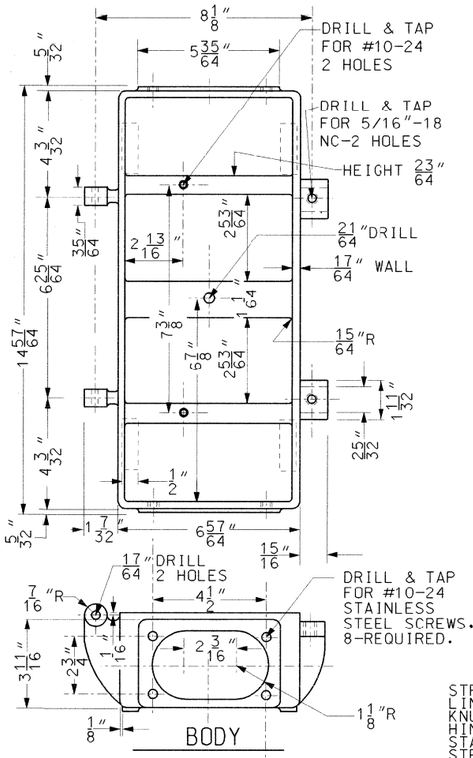

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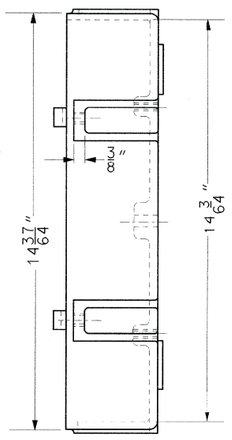

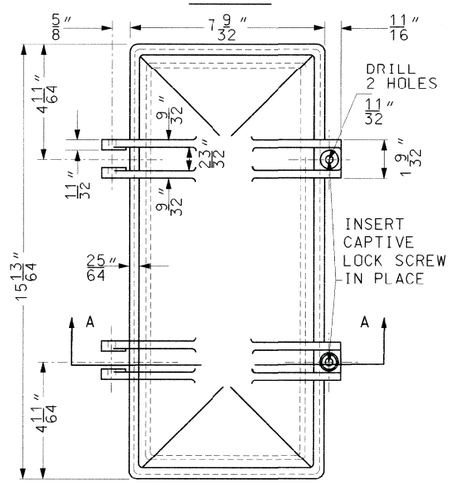

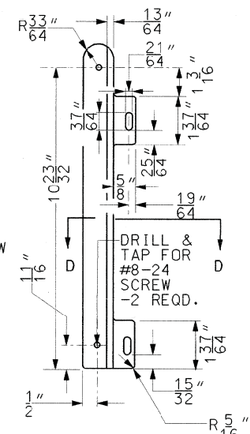

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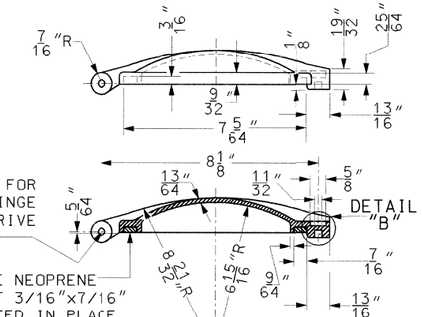

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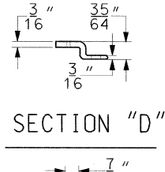

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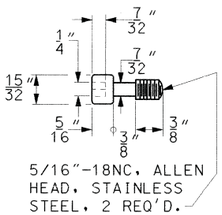

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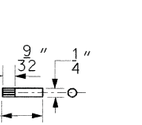

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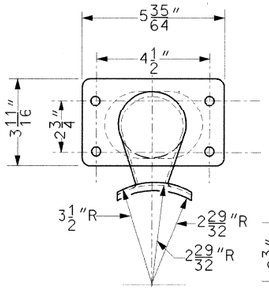

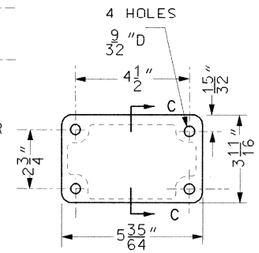

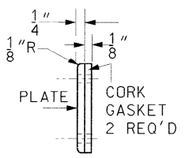

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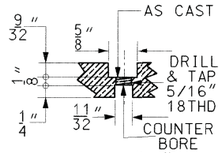

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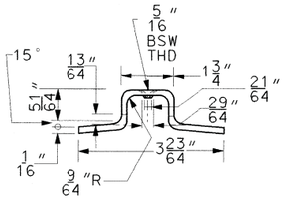

BANDING BRACKET

MATERIALS

BODY, DOOR, ELBOW & PLATE: CAST ALUMINUM ALLOY. TERMINAL MTG. BRACKET: ALUMINUM ALLOY.
SCREWS, HINGE PINS, BANDING BRACKET: STAINLESS STEEL.
CORK GASKET 1/8" THICK, TO BE FURNISHED BETWEEN FLAT PLATE AND BODY

SPONGE NEOPRENE GASKET 14 51/64" x 7 5/64" x 7/16", TO BE FURNISHED BETWEEN DOOR AND BODY

SUPERSEDES DWG. # 832 DATED 5-1-85

JUNCTION BOX FOR TRAFFIC SIGNAL & FIRE ALARM

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

DRAFTSMAN:	CHIEF DRAFTSMAN:	ENGINEER:
O. LETAMENDI	R.C.	O. LETAMENDI

SUPERVISING ENGINEER: ELEC. DESIGN ENGR.
ENGINEER OF ELECTRICITY:
GEN'L SUPT. OF ELECTRICITY:
DEPUTY COMMISSIONER:
DWG. NO. 954
SIZE: 16" 21" SCALE: NONE DATE: 5-3-02

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		DRAWN - LV	REVISED -	
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	PLOT DATE = 3/27/2014	DATE - 03-31-2014	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

63RD STREET OVER DAN RYAN EXPRESSWAY
CDOT STANDARD DETAILS

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	50
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

CIVIL ENGINEERING CONSULTANTS
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Chicago, IL 60631-3551
773-283-2600 Fax: 773-283-2602
www.RWAengineers.com

• 7 CONDUCTOR - 7 POINT STRIP •

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

• 14 CONDUCTOR - 10 POINT STRIP •

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

GREEN BLUE TRACER
ORANGE " "
RED " "
BLACK - SOLID
} SPLICED & TAPED

• 22 CONDUCTOR - CODE •
• 19/c CODE - OMIT "19 - "21 & "22 •

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 SO. 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	G	" " " "
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 — "

• 10 CONDUCTOR - 7 POINT STRIP •

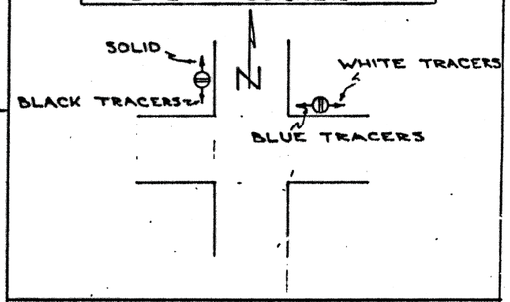
7	COMMON - WHITE	
6	RED BLK. TR.	E & W RED
5	ORANGE BLK. TR.	" AMBER
4	GREEN BLK. TR.	" GREEN
3	RED - SOLID	N & S RED
2	ORANGE - "	" AMBER
1	GREEN - "	" GREEN

SOLID BLUE
SOLID BLACK
BLUE BLK. TR
} SPLICED & TAPED

• 14 CONDUCTOR - 14 POINT STRIP •

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

• SPLIT CORNER •

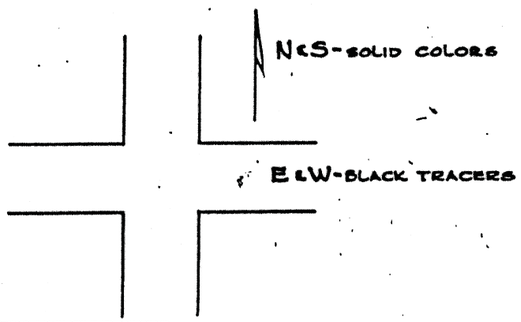


• 10 CONDUCTOR - 10 POINT STRIP •

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

- SOLID BLUE - GREEN LIGHT
- SOLID BLACK - AMBER "
- BLUE BLACK TR. RED "
} IF USED

• STRAIGHT CORNER •



NOTE:
CONDUCTORS FOR WALK SIGNALS & VARIOUS MESSAGE SIGNS AT DISCRETION OF INSTALLER

TRAFFIC CONTROL SIGNALS STRIP WIRING LAYOUT

REVISED	
A	5-4-61
B	11-10-64
C	
D	
E	
F	
G	

CITY OF CHICAGO
DEPT OF STREETS AND SANITATION
DIVISION OF ELECTRICAL OPERATION

DRAWN M.R.B. | CHECKED | ENGINEER C.C. Buckley
DEG. NO. 12268-A
BUS. IN CHARGE
SUPERINTENDENT
COMMISSIONER
SIZE 16"x21" | DATE 11-8-56

5

30

FILE NAME = c:\pw_work\dlz\ccooney\dms19784\63DETAIL12.dgn	USER NAME = $USER$	DESIGNED - KMM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	63RD STREET OVER DAN RYAN EXPRESSWAY CDOT STANDARD DETAILS	F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - LV	REVISED -			94	1920-B	COOK	142	51
	PLOT SCALE = $SCALE$	CHECKED - JDH	REVISED -					CONTRACT NO. 60J15		
	PLOT DATE = 3/27/2014	DATE - 03-31-2014	REVISED -		SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		

BILL OF MATERIALS

	ITEM	UNIT	TOTAL QUANTITY	IDOT UNDERPASS QUANTITY	CDOT OVERPASS QUANTITY
	IDOT				
	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	518	518	
	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL	FOOT	140	140	
	CONDUIT ATTACHED TO STRUCTURE, 3" DIA., PVC COATED GALVANIZED STEEL	FOOT	952	952	
	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	12	12	
	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	6	6	
	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 24" X 24" X 10"	EACH	2	2	
	UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	102	102	
	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	2786	2786	
	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	932	932	
	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	2500	2500	
	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5982	5982	
*	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	6	6	
*	REMOVE CONDUIT ATTACHED TO STRUCTURE	FOOT	2083	2083	
*	REMOVE EXISTING JUNCTION BOX	EACH	30	30	
*	PROTECTION AND MAINTENANCE OF EXISTING UNDERPASS LIGHTING	L SUM	1	1	
	CDOT				
	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	237		237
	CONDUIT ATTACHED TO STRUCTURE, 2" DIA., GALVANIZED STEEL	FOOT	634		634
	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	221		221
*	REMOVE EXISTING STREET LIGHTING EQUIPMENT	L SUM	1		1
*	MAINTENANCE OF STREET LIGHTING SYSTEM (CITY OF CHICAGO)	L SUM	1		1
*	PAINT EXISTING STREET LIGHT/TRAFFIC EQUIPMENT COMPLETE	EACH	1		1
*	CABLE IN CONDUIT, TRIPLEX, 2-1/C NO. 6 AND 1-1/C NO. 8 GROUND	FOOT	2692		2692
*	RACK, SECONDARY-AERIAL, 2-WIRE	EACH	1		1
*	POLE, STEEL, 32'6", ANCHOR BASE, 11 1/2" B.C., 7 GAUGE (INSTALL ONLY)	EACH	4		4
*	MAST ARM, STEEL, STREET LIGHTING, 8 FOOT (INSTALL ONLY)	EACH	9		9
*	MAST ARM, STEEL, STREET LIGHTING, 15 FOOT (INSTALL ONLY)	EACH	4		4
*	LUMINAIRE, STREET LIGHT, CERAMIC METAL HALIDE, 210 WATT, 240 VOLT, ARTERIAL, SEMI-CUTOFF (INSTALL ONLY)	EACH	15		15
*	WIRE, AERIAL, 1/C NO. 6	FOOT	260		260

* INDICATE SPECIAL PROVISION

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
AC	ALTERNATING CURRENT
A/C	AERIAL CABLE
AFG	ABOVE FINISHED GRADE
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CM	CENTIMETER
CP	CONTROL PANEL
CT	CURRENT TRANSFORMER
DA	DAVIT ARM
DC	DIRECT CURRENT
DIA	DIAMETER
DP	DISTRIBUTION PANEL
E	EXISTING UNIT TO REMAIN
ECA	ELECTRIC CABLE ASSEMBLY
FT	FEET OR FOOT
FU	FUSE
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATTS
M	METER
MA	MAST ARM
MM	MILLIMETER
M.H.	MOUNTING HEIGHT
MW	MESSENGER WIRE
NO. #	NUMBER
P	PROPOSED
PB	PUSH BUTTON
PNL	PANEL
PVC	POLYVINYL CHLORIDE
PVCC RGC	PVC COATED RIGID GALVANIZED CONDUIT
PT	POTENTIAL TRANSFORMER
R	EXISTING UNIT TO BE REMOVED (OWNER SALVAGED U.N.O.)
RR	EXISTING UNIT TO BE REMOVED AND REINSTALLED
RECP	RECEPTACLE
RGC	RIGID GALVANIZED CONDUIT
SEL SW	SELECTOR SWITCH
SPARE	SPARE
SPACE	SPACE
SS	STAINLESS STEEL
STA	STATION
UD	UNIT DUCT
U.N.O.	UNLESS NOTED OTHERWISE
WP	WOOD POLE
XFMR	TRANSFORMER
HPS	HIGH PRESSURE SODIUM
LPS	LOW PRESSURE SODIUM
LTFM	LIQUID TIGHT FLEXIBLE METALLIC

GENERAL NOTES

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS PROJECT, SPECIFICALLY AS THEY RELATE TO LUMP SUM ITEMS AND UNIT PRICE ITEMS.
2. ALL NEW CONDUITS, JUNCTION BOXES AND APPURTENANCES ARE INDICATED DIAGRAMMATICALLY ON THE DRAWINGS. THE ACTUAL LOCATIONS IN THE FIELD SHALL MEET WITH APPROVAL OF THE ENGINEER.
3. THE ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST CODES, STANDARDS AND THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2012, AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL
4. PROVISIONS.
5. THE SCALE SHOWN ON PLAN DRAWINGS APPLIES ONLY TO THE FULL SIZE PLANS AND NOT TO REDUCED SIZE PLANS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ESTABLISHMENT OF THE FINISHED GRADE. THE ENGINEER MAY ASSIST THE CONTRACTOR, AS APPLICABLE, BUT THE RESPONSIBILITY FOR COORDINATION OF THE FINISHED GRADE WITH THE TOP OF THE FOUNDATION HEIGHTS AND THE LIKE SHALL REMAIN WITH THE CONTRACTOR.
7. THE CONTRACTOR SHALL FURNISH AND INSTALL LUMINAIRE LAMPS IN ACCORDANCE WITH THE SUPPLIER'S RECOMMENDATIONS AND IN ACCORDANCE WITH THE SPECIFICATIONS. THE COST OF THIS WORK AND MATERIAL SHALL BE INCLUDED IN THE APPLICABLE LUMINAIRE PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
8. ALL LUMINAIRES SHALL BE ORIENTED WITH THE OPTICS PERPENDICULAR TO THE ROADWAY UNLESS NOTED OTHERWISE OR DIRECTED BY THE ENGINEER. THE LUMINAIRES MAY REQUIRE NIGHT-TIME OPTICAL ADJUSTMENT UPON INSPECTION BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE APPLICABLE LUMINAIRE PAY ITEMS. SEPARATE PAYMENT WILL NOT BE MADE.
9. CONDUITS AND UNIT DUCTS SHALL BE INSTALLED AT A MINIMUM 30 INCH DEPTH BELOW GRADE AND POSITIONED IN THE FIELD TO AVOID CONFLICT WITH ROADWAY UNDERDRAINS AND OTHER EXISTING AND PROPOSED UTILITIES. THE CONTRACTOR SHALL INCREASE DEPTH OF UNIT DUCT AND CONDUIT AS REQUIRED AT NO ADDITIONAL COST OF THE STATE. THE CONTRACTOR SHALL COORDINATE RACEWAY DEPTH WITH THE ELECTRICAL DETAILS AND THE ENGINEER.
10. THE CONTRACTOR SHALL MAKE SPECIAL NOTE OF THE SPECIFIED REQUIREMENTS FOR BURIED WARNING TAPE, AS PART OF THE UNDERGROUND CONDUIT OR UNIT DUCT. THE INSTALLATION OF THE TAPE SHALL BE INSPECTED BY THE ENGINEER PRIOR TO BACKFILLING OR DURING PLOWING OPERATIONS, AS APPLICABLE.

WHERE THE CONTRACTOR'S EXCAVATION MEETS AN OBSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR DIRECTION IN WRITING PRIOR TO FURTHER EXCAVATION. THE CONTRACTOR SHALL RESTORE ANY DAMAGE TO EXISTING SYSTEMS OR UTILITIES AND REMOVE EXISTING OBSTRUCTIONS AND FOUNDATIONS TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE APPROPRIATE PAY ITEM.

INDEX OF DRAWINGS:

J:\298\Dgn\CADD_Sheets\IDOT\DI60J15-sht-itg01.dgn

SINGH + ASSOCIATES, INC CONSULTING ENGINEERS

USER NAME = kprajapati	DESIGNED - BN	REVISED -
	DRAWN - AM	REVISED -
PLOT SCALE = 2.000000:1.000000	CHECKED - KGP	REVISED -
PLOT DATE = 27-MAR-2014 15:36	DATE - 5/15/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

63rd STREET OVER DAN RYAN EXPRESSWAY (I-90 /94)
GENERAL NOTES, ABBREVIATIONS, INDEX OF DRAWINGS AND SCHEDULE OF QUANTITIES

SCALE: N.T.S. | SHEET NO. 1 OF 13 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	52
		CONTRACT NO. 60J15		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

N

0 FEET 20 100

S. YALE AVE

TO EXISTING CKT C&D

DAN RYAN EXPWY

50'

DAN RYAN EXPWY

36'

CTA STATION

DAN RYAN EXPWY

48'

DAN RYAN EXPWY

38'

TO EXISTING CKT G&H

S. WENTWORTH AVE

CKTS. E&F: G&H: 2 SETS 3#2, 1#4 GND UNIT DUCTS NOTE 4

SD10 SC10 SD7 SC7

SG7 SH7 SG10 SH10

CKT G&H: 3#2, 1#4 GND, IN 2" PVCC RGC ATS

JB1 TYP.

SC9 SD9 SC6 SD6

SH6 SG6 SH9 SG9

W. 63rd STREET

SD8 SC8 SD5 SC5

SG5 SH5 SG8 SH8

16.5' TYP.

25' TYP.

25' TYP.

16.5' TYP.

JB3

JB2 TYP.

A TYP. NOTE 2

JB2 TYP.

A TYP. NOTE 2

JB2 TYP.

1-3" PVCC RGC ATS (SPARE) NOTE 2

CKTS. E&F: G&H: 2 SETS 3#2, 1#4 GND, IN 3" PVCC RGC ATS NOTE 2

CKT G&H: 3#2, 1#4 GND, IN 2" PVCC RGC ATS

TO EXISTING CKT E&F

CKT: C&D TO UNDERPASS LIGHTING EXISTING UNIT DUCT TO REMAIN

SECTION A-A

LEGENDS

- EXISTING LIGHTING CONTROLLER, 480/240 VAC, 1PH, 3W 2-175A MAIN BREAKERS
- EXISTING UNDERPASS LUMINAIRE TO BE REINSTALLED, 70W HPS, ATTACHED TO STRUCTURE
- [J] PROPOSED JUNCTION BOX, SIZE AND TYPE AS NOTED
- [J]E EXISTING JUNCTION BOX TO REMAIN IN PLACE
- PROPOSED CABLE OR UNIT DUCT IN CONDUIT, SIZE AND TYPE AS NOTED
- ---E--- EXISTING CABLE OR UNIT DUCT IN CONDUIT
- UNIT DUCT IN TRENCH, SIZE AND TYPE AS NOTED

(A) 3-1/C NO. 10 AND 1/C NO. 10 GND. IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE

(B) 2-1/C NO. 10 AND 1/C NO. 10 GND. IN 1" DIA PVCC RGC ATTACHED TO STRUCTURE

(C) 2-1/C NO. 10 AND 1/C NO. 10 GND. IN 3/4" DIA LIQUID TIGHT FLEXIBLE CONDUIT

(D) 3-1/C NO. 4 AND 1/C NO. 6 GND. UNIT DUCT IN 3" DIA CNC, EXISTING TO REMAIN

JB1 JUNCTION BOX, STAINLESS STEEL, 6"X6"X4", ATTACHED ON TOP OF THE PIER

JB2 JUNCTION BOX, STAINLESS STEEL, 12"X10"X6", MOUNTED ON TOP OF THE PIER CAP

JB3 JUNCTION BOX, STAINLESS STEEL, 24"X24"X10", ATTACHED TO SIDE OF ABUTMENT WALL

NOTES:

1. ALL PROPOSED LOCATIONS OF UNDERPASS LUMINAIRES SHOWN ON THIS DRAWING SHALL BE PIER OR ABUTMENT WALL MOUNTED. SEE DRAWING BE-902 FOR PIER/ABUTMENT WALL MOUNTED UNDERPASS LIGHTING DETAILS.
2. THE CONDUIT SHALL BE ROUTED BETWEEN GIRDERS AS SHOWN ON DETAIL SHEET E-4 AND E-5.

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SINGH + ASSOCIATES, INC CONSULTING ENGINEERS

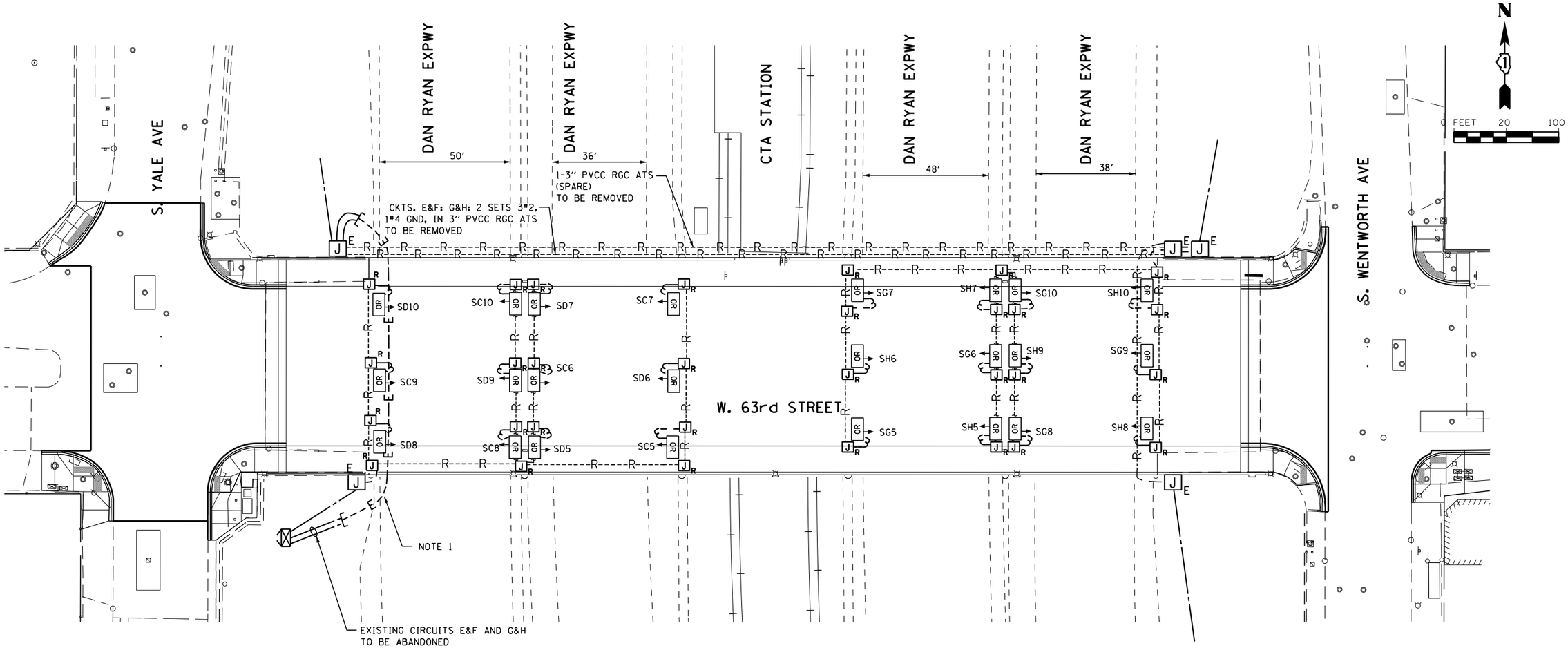
USER NAME = kprajapati	DESIGNED - BN	REVISED -
	DRAWN - AM	REVISED -
PLOT SCALE = 40.0000039:1.000000	CHECKED - KGP	REVISED -
PLOT DATE = 27-MAR-2014 15:36	DATE - 5/15/2013	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

63rd STREET OVER DAN RYAN EXPRESSWAY (I-90 /94)
PROPOSED UNDERPASS LIGHTING PLAN

SCALE: 1" = 20' | SHEET NO. 2 OF 13 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	53
		CONTRACT NO. 60J15		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



LEGENDS

- EXISTING LIGHTING CONTROLLER, 480/240 VAC, 1PH, 3W 2-175A MAIN BREAKERS REMAIN IN PLACE
- OR — EXISTING UNDERPASS LUMINAIRE TO BE REMOVED AND REINSTALLED
- J_R — EXISTING JUNCTION BOX TO BE REMOVED
- J_E — EXISTING JUNCTION BOX TO REMAIN IN PLACE
- ---E--- EXISTING UNIT DUCT IN CONDUIT TO REMAIN
- ---R--- EXISTING CABLE AND CONDUIT TO BE REMOVED
- ——-—— EXISTING UNIT DUCT IN TRENCH, SIZE AND TYPE AS NOTED

LIST OF UNDERPASS LIGHTING ITEMS TO BE REMOVED:

24-70W HPS UNDERPASS LUMINAIRES

24-JUNCTION BOX, STAINLESS STEEL, 6"X6"X4", ATTACHED TO THE SIDE OF PIER

6-JUNCTION BOX, STAINLESS STEEL, 12"X10"X6", MOUNTED ON TOP OF THE PIER CAP

110FT-1" DIA LIQUID TIGHT FLEXIBLE CONDUIT, INCLUDING WIRES

1973FT-1" DIA PVCC RGC ATTACHED TO STRUCTURE, INCLUDING WIRES

NOTES:

1. THE EXISTING UNDERGROUND UNIT DUCTS IN CONDUIT CROSSING THE ROADWAY SHALL NOT BE DISRUPTED DURING EXISTING PAVEMENT REMOVAL AND INSTALLATION. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE ROADWAY CONSTRUCTION STAGES. ANY DAMAGE TO EXISTING UNIT DUCTS IN CONDUIT CROSSING THE ROADWAY SHALL BE REPLACED IN KIND THE SAME DAY SUCH THAT LIGHTING SYSTEM IS FULLY OPERATIONAL BEFORE NIGHT. THIS WORK SHALL BE APPROVED BY THE ENGINEER AND AT NO ADDITIONAL COST TO THE STATE.

2. THE EXISTING UNDERPASS LIGHTING SYSTEM REMOVAL SHALL BE COORDINATED WITH THE BRIDGE STRUCTURE REMOVAL. DURING CONSTRUCTION OF THE EASTBOUND 63RD STREET BRIDGE DECK, CONTRACTOR SHALL BE RESPONSIBLE TO MAINTAIN THE EXISTING UNDERPASS LIGHTING UNDER THE WESTBOUND 63RD STREET BRIDGE DECK, AND KEEP IT OPERATIONAL. CONTRACTOR IS RESPONSIBLE TO MAKE THE PROPOSED UNDERPASS LIGHTING UNDER THE EASTBOUND 63RD STREET BRIDGE DECK OPERATIONAL BEFORE REMOVING THE EXISTING UNDERPASS LIGHTING UNDER THE WESTBOUND 63RD STREET BRIDGE DECK. THIS WORK SHALL BE INCIDENTAL TO THE MAINTENANCE OF LIGHTING SYSTEM PAY ITEM.

3. THE EXISTING UNDERGROUND UNIT DUCTS GOING TO THE JUNCTION BOX ATTACHED TO THE BRIDGE STRUCTURE AND FROM THE JUNCTION BOX TO THE EXISTING HIGH-MAST LIGHTING TOWER SHALL BE ADJUSTED OR RE-ROUTED TO MAINTAIN EXISTING LIGHTING SYSTEM OPERATIONAL DURING CONSTRUCTION. THIS WORK SHALL BE INCIDENTAL TO THE MAINTENANCE OF LIGHTING SYSTEM PAY ITEM.

4. CONTRACTOR IS RESPONSIBLE TO COORDINATE REMOVAL OF EXISTING LIGHTING SYSTEM WITH INSTALLATION OF PROPOSED LIGHTING SYSTEM. EXISTING CIRCUITS FOR HIGH MAST LIGHTING SHALL NOT BE REMOVED UNTIL PROPOSED CIRCUITS FOR HIGH MAST LIGHTING IS INSTALLED AND FULLY OPERATIONAL.

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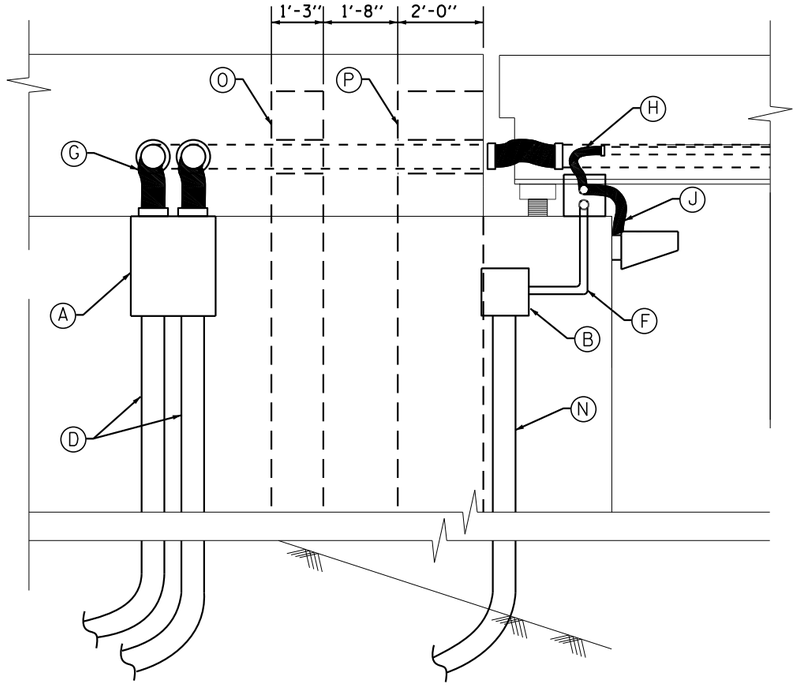
SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	USER NAME = kprajapati	DESIGNED - BN	REVISED -
		DRAWN - AM	REVISED -
	PLOT SCALE = 40.000039:1.000000	CHECKED - KGP	REVISED -
	PLOT DATE = 27-MAR-2014 15:36	DATE - 5/15/2013	REVISED -

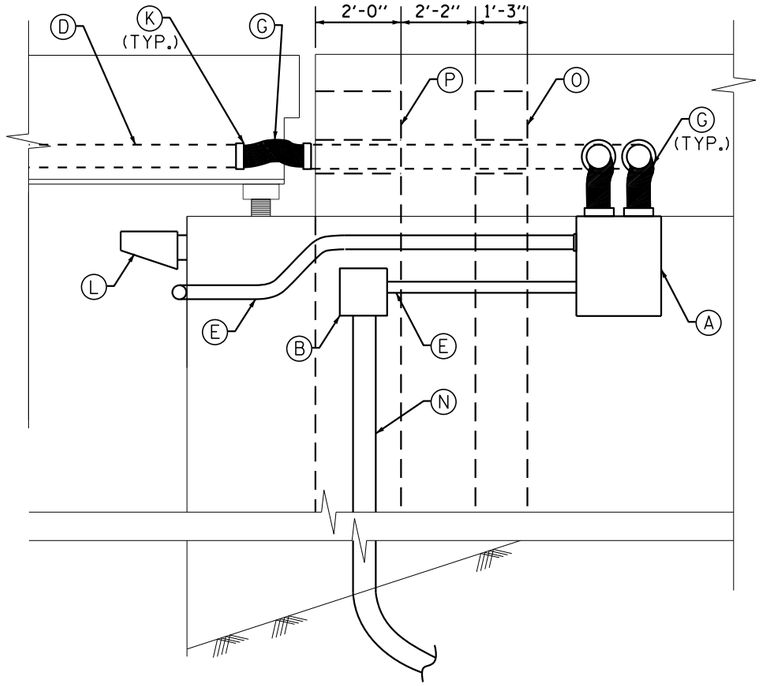
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

63rd STREET OVER DAN RYAN EXPRESSWAY (I-90 /94)
EXISTING UNDERPASS LIGHTING REMOVAL AND TEMPORARY LIGHTING PLAN

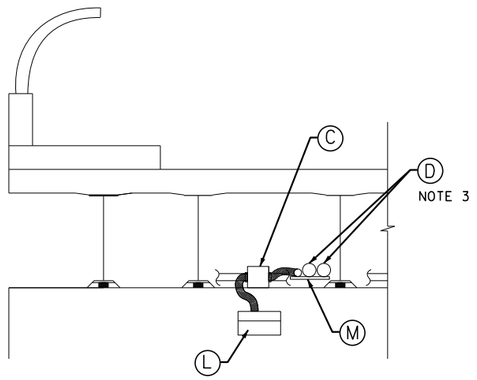
SCALE: 1" = 20' | SHEET NO. 3 OF 13 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	54
		CONTRACT NO. 60J15		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		





SECTION A-A
ELEVATION VIEW LOOKING NORTH AT SOUTH WING WALLS
ATTACHED CONDUIT TRANSITION DETAILS



SECTION B-B
ELEVATION VIEW LOOKING WEST AT WEST ABUTMENT WALL

LEGEND

- (A) PROPOSED JUNCTION BOX, STAINLESS STEEL, 24"X24"X10" ATTACHED TO STRUCTURE
- (B) EXISTING JUNCTION BOX ATTACHED TO STRUCTURE
- (C) PROPOSED JUNCTION BOX, STAINLESS STEEL, 12"X10"X6" ATTACHED TO TOP OF THE PIER CAP
- (D) 3" PVCC RGC ATTACHED TO STRUCTURE
- (E) 2" PVCC RGC ATTACHED TO STRUCTURE,
- (F) 1" PVCC RGC ATTACHED TO STRUCTURE,
- (G) 3" LIQUIDTIGHT FLEXIBLE CONDUIT, 3FT
- (H) 1" LIQUIDTIGHT FLEXIBLE CONDUIT, 2FT
- (J) 3/4" LIQUIDTIGHT FLEXIBLE CONDUIT, 5FT
- (K) PVCC RGS TO LIQUIDTIGHT FLEXIBLE CONDUIT COUPLING SIZE PER CONDUIT
- (L) UNDERPASS LUMINAIRE
- (M) HARDWARE FOR CONDUIT SUPPORT
- (N) EXISTING CONDUIT
- (O) EXISTING COUNTERFORT WALL
- (P) NEW ABUTMENT BACKWALL

NOTES:

1. SEE STANDARD DETAIL DRAWING BE-902 FOR MORE DETAILS.
2. SEE PROPOSED UNDERPASS LIGHTING PLANS FOR WIRING.
3. SEE CONDUIT MOUNTING DETAILS SHEET E-5 FOR MORE INFORMATION.
4. CORE DRILL HOLES THROUGH EXISTING WING WALLS AND EXISTING COUNTERFORT WALL FOR 3" PVCC RGC CONDUIT PENETRATION. CORE DRILLING SHALL BE INCLUDED IN THE COST OF 3" PVCC RGC CONDUIT INSTALLATION.
5. PROVIDE GALVANIZED STEEL SLEEVE FOR EACH CONDUIT PENETRATION IN NEW ABUTMENT BACKWALL. SLEEVE DIAMETER SHALL BE 1" LARGER THAN CONDUIT OUTSIDE DIAMETER. GALVANIZED STEEL SLEEVE SHALL BE INCLUDED IN THE COST OF 3" PVCC RGC CONDUIT.

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SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

USER NAME = kprajapati	DESIGNED - BN	REVISED -	
	DRAWN - AM	REVISED -	
PLOT SCALE = 80.000000:1.000000	CHECKED - KGP	REVISED -	
PLOT DATE = 27-MAR-2014 15:36	DATE - 5/15/2013	REVISED -	

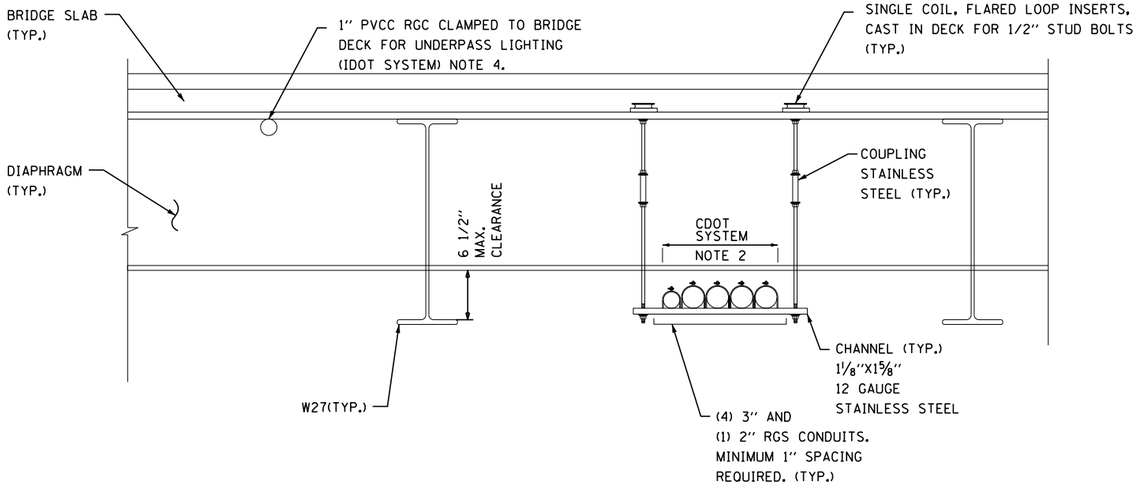
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

63rd STREET OVER DAN RYAN EXPRESSWAY (I-90 /94)
CONDUIT TRANSITION DETAILS

SCALE: N.T.S. | SHEET NO. 4 OF 13 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	55
		CONTRACT NO. 60J15		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

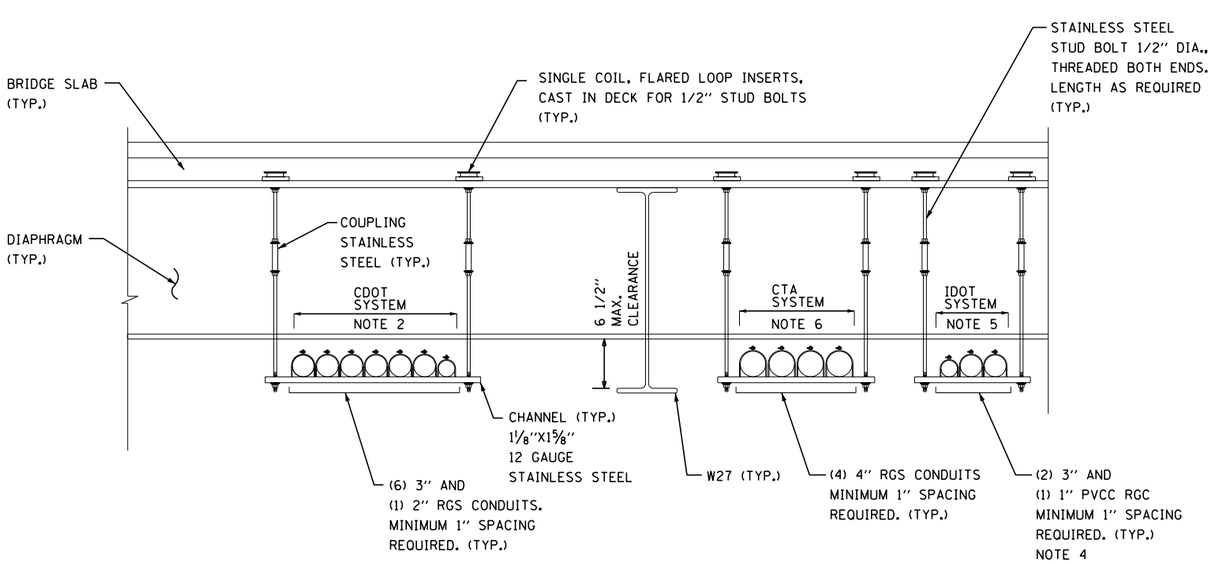


CONDUIT SUPPORT DETAIL UNDER WB 63RD ST. LANES

LOOKING EAST

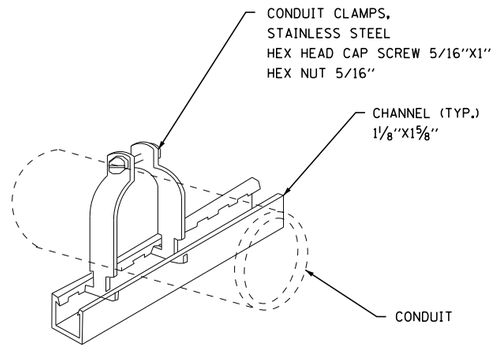
NOTES:

1. CONDUIT SUPPORT SHALL BE INSTALLED EVERY 10FT. COORDINATE WITH STRUCTURAL ENGINEER FOR SUPPORT INSTALLATION.
2. CONDUIT SUPPORT SYSTEM INCLUDING ALL ASSOCIATED HARDWARE SHALL BE INCLUDED IN THE COST OF 3-INCH RGS CONDUIT PAY ITEM INCLUDED IN TRAFFIC SIGNAL PLANS. SEE TRAFFIC SIGNAL PLANS FOR CONDUIT ROUTING.
3. SEE STRUCTURE PLANS FOR LOCATION OF CONDUIT MOUNTING ASSEMBLIES.
4. SEE PROPOSED UNDERPASS LIGHTING PLANS SHEET E-2 FOR CONDUIT ROUTING.
5. CONDUIT SUPPORT SYSTEM INCLUDING ALL HARDWARE SHALL BE INCLUDED IN THE COST OF 3-INCH PVCC RGC FOR HIGHMAST LIGHTING.
6. CONDUIT SUPPORT SYSTEM INCLUDING ALL HARDWARE SHALL BE INCLUDED IN THE COST OF 4-INCH RGS CONDUIT SHOWN IN THE DRAINAGE AND UTILITIES PLAN FOR THE CTA STATION.



CONDUIT SUPPORT DETAIL UNDER EB 63RD ST. LANES

LOOKING EAST



CONDUIT CLAMP DETAIL

CONDUIT MOUNTING DETAILS ALONG BRIDGE

N.T.S.

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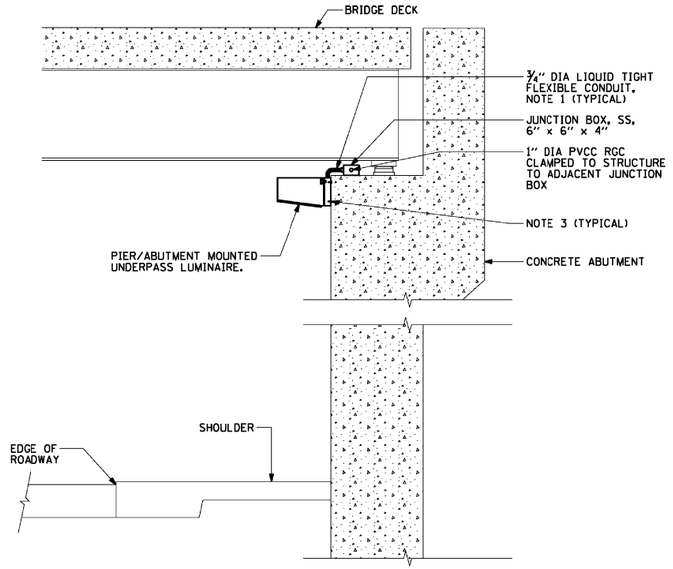
SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	USER NAME = mgarvida	DESIGNED - BN	REVISED -
		DRAWN - AM	REVISED -
	PLOT SCALE = 80.0000000:1.000000	CHECKED - KGP	REVISED -
	PLOT DATE = 25-APR-2014 11:00	DATE - 4/25/2014	REVISED -

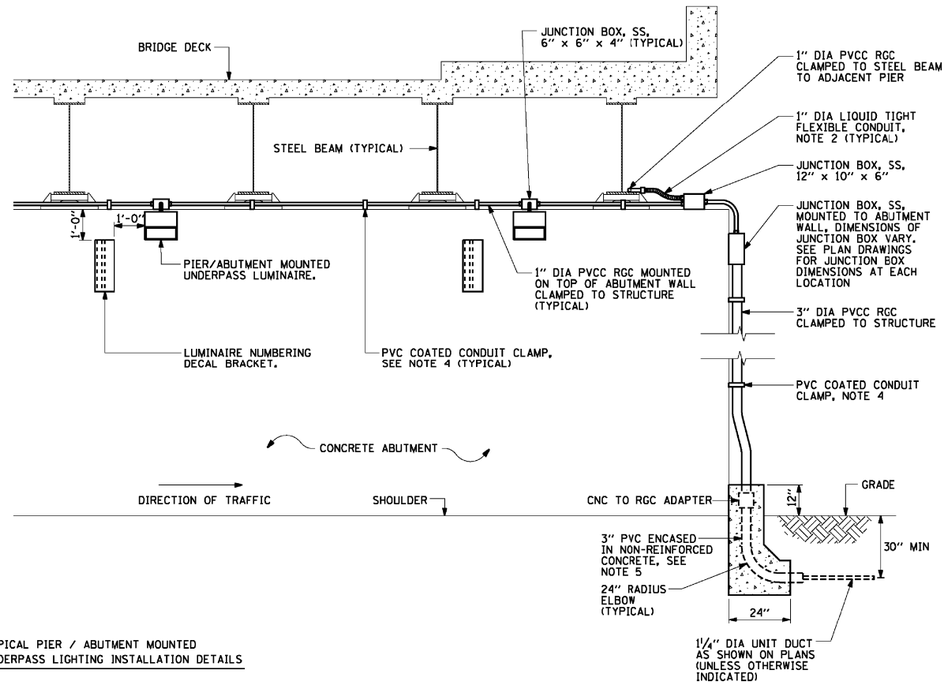
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

63rd STREET OVER DAN RYAN EXPRESSWAY (I-90 /94)
CONDUIT MOUNTING DETAILS ALONG BRIDGE

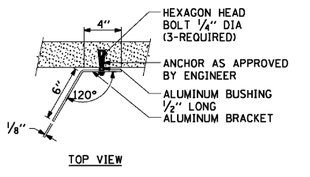
SCALE: N.T.S. | SHEET NO. 5 OF 13 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	56
		CONTRACT NO. 60J15		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

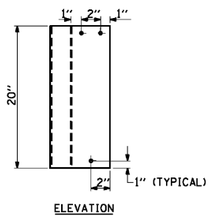




TYPICAL PIER / ABUTMENT MOUNTED
UNDERPASS LIGHTING INSTALLATION DETAILS



TOP VIEW



ELEVATION

LUMINAIRE NUMBERING DECAL BRACKET
NOT TO SCALE

PVC COATED
CONDUIT BEAM CLAMP
NOT TO SCALE

PVC COATED
CONDUIT CLAMP
NOT TO SCALE

NOTES;

1. 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 THE COST OF THE ¾" DIA. RIGID STEEL CONDUIT AND ¾" DIA. FLEXIBLE CONDUIT SHALL BE INCLUDED IN THE LUMINAIRE INSTALLATION.
2. UNDERPASS LUMINAIRE MOUNTED TO FACE OF PIER OR ABUTMENT WALL. MOUNTING HEIGHT OF 1" BELOW THE TOP OF PIER OR ABUTMENT WALL TYPICAL FOR ALL PIER/ABUTMENT MOUNTED UNDERPASS LUMINAIRES UNLESS OTHERWISE NOTED.
3. EXPANSION ANCHOR, POWDER ACTUATED FASTENERS WILL NOT BE ALLOWED. EXPANSION ANCHOR MUST BE SIZED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
4. 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.
5. THE CONCRETE ENCASED CONDUIT TRANSITION SHALL BE INCLUDED IN THE COST OF THE GALVANIZED RIGID STEEL CONDUIT PAY ITEMS.
6. ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.

FILE NAME = W:\diatstd\22x34\be902.dgn	USER NAME = gaglienobt	DESIGNED -	REVISED - 01-25-05	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PIER /ABUTMENT MOUNTED UNDERPASS LUMINAIRE INSTALLATION DETAILS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -									
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -						BE-902	CONTRACT NO.		
	PLOT DATE = 1/4/2008	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SINGH + ASSOCIATES, INC CONSULTING ENGINEERS	USER NAME = kprajapati	DESIGNED - BN	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	63rd STREET OVER DAN RYAN EXPRESSWAY (I-90 /94) IDOT DISTRICT 1 STANDARD DETAIL			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - AM	REVISED -					94	1920-B	COOK	142	57
	PLOT SCALE = 2.000000:1.000000	CHECKED - KGP	REVISED -							CONTRACT NO. 60J15		
	PLOT DATE = 27-MAR-2014 15:36	DATE - 5/15/2013	REVISED -		SCALE: N.T.S.	SHEET NO. 6 OF 13 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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ELECTRICAL GENERAL NOTES

1. ALL WORK FOR THIS CONTRACT SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC), CITY OF CHICAGO DIVISION OF ELECTRICAL OPERATIONS (DEO), CHICAGO ELECTRICAL CODE, IDOT STANDARD SPECIFICATIONS ADOPTED JANUARY 1, 2012, AND NEMA.

2. THE CONTRACTOR SHALL COORDINATE ALL PROPOSED ELECTRICAL CONNECTIONS, LIGHTING UNITS, CONTROL EQUIPMENT, AND/OR ANY OTHER WORK DEEMED NECESSARY BY THE COMMISSIONER TO ASSURE THAT ANY FUTURE OR CONCURRENT CONTRACT WORK PROCEEDS AS SCHEDULED AND WITHOUT DELAY. THIS COORDINATION WILL BE INCLUDED IN THE COST OF THE CONTRACT.

3. THE CONTRACTOR SHALL COORDINATE ALL WORK AND MATERIALS WITH SPECIAL ATTENTION TO ALL OTHER CONSTRUCTION CONTRACTS. THIS WORK WILL BE INCLUDED IN THE COST OF THE CONTRACT AND SEPARATE PAYMENT WILL NOT BE MADE.

4. THE CONTRACTOR SHALL REFER TO THE CIVIL DRAWINGS FOR LOCATIONS OF EXISTING EQUIPMENT AND UTILITIES NOT SPECIFICALLY SHOWN ON ELECTRICAL DRAWINGS.

5. THE CONTRACTOR SHALL REFER TO THE TRAFFIC CONTROL DRAWINGS AND STATE STANDARDS FOR TRAFFIC CONTROL RELATED TO STREET LIGHTING AND TRAFFIC SIGNAL WORK.

6. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH THE GENERAL CIVIL, SEWER AND GENERAL TRAFFIC CONTROL NOTES ON DRAWINGS AND AND/OR SPECIFICATIONS.

7. THE CONTRACTOR SHALL COORDINATE WITH ROADWAY, BRIDGE, SEWER, PIPING, AND TRAFFIC CONTROL CONTRACTORS FOR STAGING AND SEQUENCE OF INSTALLATIONS, BACKFILL, AND/OR CONSTRUCTION SCHEDULING.

8. ALL CITY OF CHICAGO LIGHTING EQUIPMENT REMOVED AS PART OF THIS CONTRACT WILL REMAIN THE PROPERTY OF THE CITY AND SHALL BE DELIVERED TO CITY'S STORAGE FACILITY LOCATED WITHIN THE CITY LIMITS IN ACCORDANCE WITH THE CONTRACT SPECIFICATION, UNLESS NOTED OTHERWISE.

9. RECORD DRAWINGS SHOWING EXISTING STREET LIGHTING INSTALLATIONS AND CABINET LOCATIONS, ARE AVAILABLE FOR THE CONTRACTOR'S INFORMATION AT THE OFFICES OF CITY OF CHICAGO DEPARTMENT OF STREETS AND SANITATION, DIVISION OF ELECTRICAL OPERATIONS, AND ELECTRICAL DIVISION OFFICES.

10. ALL EXISTING AREAS THAT ARE DAMAGED AS A PART OF THIS WORK, INCLUDING BUT NOT LIMITED TO FENCING, CURBS AND GUTTERS, AND SIDEWALKS, WHERE RESTORATION IS NOT COVERED BY THE APPLICABLE CONTRACT PAY ITEMS, SHALL BE RESTORED TO THE SATISFACTION OF THE COMMISSIONER. THIS WORK WILL BE INCLUDED IN THE COST OF THIS CONTRACT AND SEPARATE PAYMENT WILL NOT BE MADE.

11. ALL NEW ELECTRICAL EQUIPMENT INSTALLED UNDER THIS CONTRACT SHALL BE DONE IN SUCH A MANNER AS NOT TO DAMAGE THE EXISTING LANDSCAPE (TREES, BUSHES, ETC.) DURING THE PROGRESSION OF WORK. IF THE CONTRACTOR HAS A CONFLICT WITH THE EXISTING LANDSCAPE HE SHALL STOP THE WORK, IMMEDIATELY NOTIFY THE RESIDENT ENGINEER AND THE COMMISSIONER, AND WAIT FOR RESOLUTION.

12. WORK FOR ELECTRICAL SYSTEMS SHALL BE COMPLETE, APPROVED, AND FULLY OPERATIONAL BEFORE A FINAL ACCEPTANCE INSPECTION FOR THE WHOLE PROJECT CAN BE SCHEDULED. LIGHTING CONTROLLERS MAY NOT BE TRANSFERRED IN GROUPS OR INDIVIDUALLY TO THE CITY FOR MAINTENANCE PURPOSES PRIOR TO CONTRACT COMPLETION UNLESS OTHERWISE DIRECTED BY THE COMMISSIONER.

13. AT THE COMMENCEMENT OF CONTRACTOR ACTIVITIES, ELECTRICAL OR OTHERWISE, THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROPER OPERATION AND MAINTENANCE OF ALL EXISTING LIGHTING AND POWER SYSTEMS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

14. ALL PROPOSED DUCT BANKS, CONDUITS, JUNCTION BOXES, AND APPURTENANCES ARE ILLUSTRATED DIAGRAMMATICALLY. THE ACTUAL LOCATIONS IN THE FIELD SHALL BE APPROVED BY THE COMMISSIONER.

15. WHERE THE CONTRACTOR'S EXCAVATION MEETS AN OBSTRUCTION OR EXISTING FOUNDATION. THE CONTRACTOR MUST NOTIFY THE COMMISSIONER FOR DIRECTION IN WRITING PRIOR TO FURTHER EXCAVATION. THE CONTRACTOR SHALL RESTORE ANY DAMAGE TO EXISTING SYSTEMS OR UTILITIES AND REMOVE EXISTING OBSTRUCTIONS AND FOUNDATIONS TO THE SATISFACTION OF THE COMMISSIONER. THIS WORK WILL BE INCLUDED IN THE APPROPRIATE EXCAVATION PAY ITEM.

17. THE CONTRACTOR SHALL REFER TO ALL CITY OF CHICAGO EDISON SERVICE ATLAS DRAWINGS, COMED DRAWINGS, AND AT&T DRAWINGS FOR POSSIBLE UNDERGROUND WIRES, CABLES, CONDUITS, DUCT RUNS, EQUIPMENT, OR DEVICES.

18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MARKING THE PROPOSED LOCATION OF ALL CITY LIGHT POLES, LUMINARIES, CABINETS, JUNCTION BOXES CONDUIT ROUTES, AND OTHER EQUIPMENT AND ITEMS FOR A CONTRACTOR REQUESTED PRE CONSTRUCTION INSPECTION BY THE COMMISSIONER, THE CITY OF CHICAGO DIVISION OF ELECTRICAL OPERATIONS. THE EXACT LOCATIONS OF ALL ITEMS SHALL BE APPROVED BY THE CITY OF CHICAGO DIVISION OF ELECTRICAL OPERATIONS PRIOR TO STARTING WORK. ANY WORK INSTALLED WITHOUT LOCATION APPROVAL FROM THE CITY OF CHICAGO DIVISION OF ELECTRICAL OPERATIONS WILL BE SUBJECT TO CORRECTIVE ACTION AT THE CONTRACTOR'S EXPENSE.

19. ALL EMPTY CONDUIT FOR FUTURE USE SHALL HAVE A PULL STRING OR CABLE INSTALLED TO ASSIST IN FUTURE CABLING. THE COST OF THE CABLE OR STRING WILL BE CONSIDERED INCLUDED IN THE COST OF THE CONDUIT.

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SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

USER NAME = kprajapati	DESIGNED - BN	REVISED -
	DRAWN - AM	REVISED -
PLOT SCALE = 2.000000:1.000000	CHECKED - KGP	REVISED -
PLOT DATE = 27-MAR-2014 15:36	DATE - 5/15/2013	REVISED -

CITY OF CHICAGO
DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING

63rd STREET OVER DAN RYAN EXPRESSWAY (I-90 /94)
ELECTRICAL GENERAL NOTES

SCALE: N.T.S. | SHEET NO. 7 OF 13 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	58
		CONTRACT NO. 60J15		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

PROPOSED	PRESENT	
		SIGNAL, TRAFFIC 3 SECTION 1-WAY ADJUSTABLE, 12" OR AS NOTED
		SIGNAL, TRAFFIC 3 SECTION 2-WAY ADJUSTABLE, 12" OR AS NOTED
		SIGNAL OPTICALLY PROGRAMMED
		SIGNAL, PEDESTRIAN, DON'T WALK/WALK
		SIGNAL FACE ARROW, 12" COLOR AS NOTED
		SIGNAL FACE, 1 SECTION YELLOW/GREEN ARROW DUAL INDICATION
		PUSH BUTTON, PEDESTRIAN
		SIGN, ILLUMINATED, WITH MESSAGE OR SYMBOL AS INDICATED
		MAST ARM, MONOTUBE, STEEL. SIZE AS INDICATED (SEE DWG. #870)
		MAST ARM, TRUSS, ALUMINUM. SIZE AS INDICATED
		CONTROLLER, TRAFFIC SIGNAL. PEDESTAL OR BASE MOUNTED AS INDICATED
		CONTROLLER, STREET LIGHTING. PEDESTAL OR BASE MOUNTED. (DWG. 876 or 880)
		CONTROLLER, STREET LIGHTING. POLE MOUNTED (DWG. #11940)
		POLE, WOOD. COMMONWEALTH EDISON COMPANY, SERVICE
		POLE, CITY STEEL, ANCHOR BASE, 34'6", 7 GA. 10" DI A. AND 15"B.C. 24"X7' FND. W/1¼" ANCHOR RODS DRG. #818.
		POLE, CITY STEEL, ANCHOR BASE, 34'-6", 3 GA. 10" DIA. AND 15" B.C. 24"X9' FND. W/1¼" ANCHOR RODS DRG. #818 (16',20' or 26' M.A.)
		POLE, CITY STEEL, ANCHOR BASE, 34"-6", 3GA., 11" DIA. AND 17¼" B.C. 30"X9' FND. W/1¼" ANCHOR RODS DRG. #816. (30' M.A.)
		POLE, CITY STEEL, ANCHOR BASE 34'-6", 3 GA. 12½" DIA. AND 16½"B.C. 30"X11' FND. W/1½" ANCHOR RODS DRG.#817. (35',40' or 44' M.A.)
		POLE, CITY STEEL, ANCHOR BASE, 32'-6", 3 GA. 10" DIA., WITH 3 GA. BAL. HSG. BASE AND 17¼" B. C. ON 30"X9' FND. W/ 11/4" ANCHOR RODS DRG. #816.
		POLE, CITY STEEL, ANCHOR BASE, 20',27'-6",29'-6", 7 GA. WITH STEEL BAL. HSG. BASE AND FND. W/10" D. B.C. AND 1" ANCHOR RODS DRG. #716.
		POLE,CITY STEEL, ANCHOR BASE, 20',27'-6",29'-6", 3 GA., WITH STEEL BAL. HSG. BASE AND FND. W/10" D. B.C. AND 1" ANCHOR RODS DWG.#719.
		POLE, CITY STEEL, ANCHOR BASE, 20',27'-6",29'-6" 7 GA., AND FND. WITH 10" B.C. AND 1" ANCHOR RODS DWG. #11408B.
		POLE, CITY STEEL, ANCHOR BASE, 20',27'-6",29'-6" 3 GA.,AND FND. WITH 10" B.C. AND 1" ANCHOR RODS DWG. #11408B.
		POLE , CITY STEEL, ANCHOR BASE, 32'-6", 7 GA., AND FND. WITH 11½" B.C. AND 1" ANCHOR RODS DWG. #753.
		POLE, CITY STEEL, ANCHR BASE, 32'-6", 3 GA., AND FND. WITH 11½" B.C. AND 1" ANCHOR RODS DWG. #753.
		POLE, CITY STEEL, ANCHOR BASE, 32'-6" 7 GA., ALUM. BHB AND FND. WITH 15" B.C.-24"X7' WITH 1" ANCHOR RODS DRG. #691.
		POLE, CITY STEEL, ANCHOR BASE, 32'-6", 3 GA., ALUM. BHB AND FND. WITH 15" B.C. 24"X 7' WITH 1" ANCHOR RODS DWG. #691.
		POLE, CITY ALUMINUM, WITH ROUND BAL. HSG. BASE, 25', 28', or 30' ON FND.WITH 14" B.C., ACQUIRED FROM CHICAGO PARK DISTRICT.
		POLE, CITY STEEL, EMBEDDED, 4"X 9"X 35' 7 GA., TAPERED TUBULAR. (DWG. #658)
		POLE, CITY STEEL, EMBEDDED, 4"X 9"X 35' 3 GA., TAPERED TUBULAR. (DWG. #658)
		POLE, CITY STEEL, EMBEDDED. (ACQUIRED FROM CTA)
		COLUMN,ELEVATED STRUCTURE
		POLE, WOOD. (SIZE AS NOTED)
		POLE, FOJNDATION WITH ELBOWS AS INDICATED.(SIZE AS NOTED)
		POLE, ORNAMENTAL OR OTHER, AS INDICATED ON THE PLANS

PROPOSED	PRESENT	
		HANDHOLE, HEAVY DUTY, 36" I.D. (DWG.#866)
		HANDHOLE, CIRCULAR WITH 24"FRAME & COVER,30"I.D. (#867)
		MANHOLE, CITY 3'X4'X4' DWG. #729 or 730; 4'X6'X6' DWG. #732or 733.
		FOUNDATION, CONTROLLER OR PEDESTAL, 13" B.C.,20"X5' (DWG. #709)
		FOUNDATION, TRAFFIC CONTROLLER DWG. #854. F.A. TERMINAL FND. DWG. #11972
		FOUNDATION, TRAFFIC TYPE "P", BASE MOUNT. (DWG. #888)
		FOUNDATION,CONTROLLER STREET LIGHT ,SPECIAL, 100A & 200A. (DWG.#876 & # 880)
		FOUNDATION, TRANSCLOSURE; TRANSCLOSURE HOUSING. (DWG.# 583 & #891)
		CONTROLLER,UNDERPASS LIGHTING 120V. & 240V. (DWG. #860 & #861)
		MANHOLE, UTILITY, E=COMMONWEALTH EDISON; T=ILL.BELL TEL.; G=PEOPLES GAS; W=CITY WATER; P=CHGO PARK DISTRICT; CTA=C.T.A; S= SEWER
		JUNCTION BOX, IN PAVEMENT (DWG. #815)
		DETECTOR LOOP IN PAVEMENT
		CONDUIT or P.V.C., NUMBER,SIZE & TYPE. (AS NOTED)
2D	2D	CONDUIT or P.V.C. ENCASED IN CONCRETE. (SECTION or NUMBER OF CONDUIT INDICATED
		LUMINAIRE, H.P.S.V. 400W LAMP, 240V, SEMI-CUTOFF
		LUMINAIRE, H.P.S.V. 400W LAMP, 240V, CUTOFF
		LUMINAIRE, H.P.S.V. 310W LAMP, 240V
		LUMINAIRE, H.P.S.V. 310W LAMP 240V, CUTOFF
		LUMINAIRE, H.P.S.V. 150W LAMP, 240V
		LUMINAIRE, H.P.S.V. 150W LAMP, 120V
		LUMINAIRE, H.P.S.V. 250W LAMP, 120V, (ALLEY LIGHT)
		LUMINAIRE, H.P.S.V. 250W LAMP, 120V
		TERMINAL, CABINET F.A. & P.C.
		FIRE ALARM BOX, MOUNTED
		FIRE ALARM BOX, POLE MOUNTED
PR	PR	CABLE, TRAFFIC SIGNAL, COMMUNICATION, 1-PAIR #14 SHIELDED, IN CONDUIT
2	2	CABLE, TRAFFIC SIGNAL POWER SUPPLY, 2/C- #4, 600 V. EPR. IN CONDUIT
III	III	CABLE, TRAFFIC SIGNAL POWER SUPPLY, 2 1/C-#2 or #1/0 600V. EPR IN CONDUIT
II	II	CABLE, TRAFFIC SIGNAL POWER SUPPLY, 2/C-#10 or #6, 600V NSRI, IN CONDUIT
VII	VII	CABLE, TRAFFIC SIGNAL, 7/C-#12 or #14, 600V, EPR IN CONDUIT
X	X	CABLE, TRAFFIC SIGNAL, 10/C-#12 or #14, 600V, EPR IN CONDUIT
	XIV	CABLE, TRAFFIC SIGNAL, 14/C-#12 600V. EPR IN CONDUIT
XIX	XIX	CABLE, TRAFFIC SIGNAL, 19/C-#12 or #14, 600V, EPR IN CONDUIT
2N	2N	CABLE, STREET LIGHT, 2 1/C-#6, 600V. RINS IN PARKWAY
2NC	2NC	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
3NC	3NC	CABLE, STREET LIGHT, 3 1/C-#1/0, or #2/0, or #4, 600V. EPR IN CONDUIT
2W	2W	WIRE, STREET LIGHT, 2 1/C-#6, HDNS. AERIAL
3W	3W	WIRE, STREET LIGHT, 2 1/C-#6 & 1 1/C #8, HDNS. AERIAL
III	III	CABLE, STREET LIGHT AERIAL, 3 1/C-#4 or #2 SELF SUPPORTING, 600V EPR
W FA	W FA	WIRE, F.A. & P.C. AERIAL, 1/C-#10, NUMERAL DENOTES QUANTITY
PR	PR	CABLE, F.A. & P.C. AERIAL, W/ MESSENGER #19-(NUMBER OF PAIRS AS INDICATED)
PR 6 6	6 PR	CABLE, F.A. & P.C. AERIAL, SELF SUPPORTING, #19-(NUMBER OF PAIRS AS INDICATED)
37 PR	37 PR	CABLE, F.A. & P.C., IN CONDUIT, #19-(NUMBER OF PAIRS AS INDICATED)
		DOWNLIGHT ASSEMBLY. (DWG. #850)
		LIGHT, TRAFFIC SAFETY ISLAND
		FLASHING BEACON & DOWNLIGHT

ORNAMENTAL LUMINAIRES

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

	DATE	REVISION
C	04-01-02	REVISED/REDRAW R.POOL/B.I.
B	12-4-01	ADDED ORNAMENTAL SYMBOLS
A	8-6-96	REDRAWN

STANDARD CODE FOR TRAFFIC SIGNALS/ STREET LIGHTING

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

DRAFTSMAN: R. IVY	CHIEF DRAFTSMAN: R. CARTER	ENGINEER: R. POOL/R.C/W.T.
SUPERVISING ENGINEER:	ELEC. DESIGN ENGR.	DWG. NO. 826
ENGINEER OF ELECTRICITY:		
GEN'L SUPT. OF CONSTRUCTION:		
DEPUTY COMMISSIONER:		
SIZE: 22"| 36"	SCALE:	DATE:

E-8

J:\298\Dgn\CADD.Sheets\CD0T\DI60JI5-sht-CD0TIgt08.dgn

SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

USER NAME = kprojapat	DESIGNED - BN	REVISED -	
	DRAWN - AM	REVISED -	
PLOT SCALE = 2.000000:1.000000	CHECKED - KGP	REVISED -	
PLOT DATE = 27-MAR-2014 15:36	DATE - 5/15/2013	REVISED -	

CITY OF CHICAGO
DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING

63rd STREET OVER DAN RYAN EXPRESSWAY (I-90 /94)
CDOT STANDARD DETAIL DWG. 826

SCALE: N.T.S. | SHEET NO. 8 OF 13 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	59
		CONTRACT NO. 60J15		

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

N

0 FEET 20 40

S. YALE AVE

DAN RYAN EXPWY

DAN RYAN EXPWY

CTA STATION

DAN RYAN EXPWY

DAN RYAN EXPWY

S. WENTWORTH AVE

W. 63rd STREET

2"-105'-E

(2) 3"-14'-E

(2) 3"-76'-E

(2) 3"-88'-E

(2) 3"-8'-E

(2) 3"-62'-E

(5) 3"-12'-E

2"-17'-E

(2) 3"-12'-E

2" PVC 40, 55' TRENCHED

2" PVC 40, 15' EMBEDDED

2" PVC 40, 90' ATTACHED NOTE 4

SEE STRUCTURAL DECK DETAILS FOR COUNDUIT TRANSISTION (TYP.)

2" PVC 40, 15' EMBEDDED

2" PVC 40, 135' ATTACHED NOTE 4

2" PVC 40, 92' ATTACHED NOTE 4

2" PVC 40, 62' TRENCHED

PROVIDE CONDUIT SLEEVE IN STRUCTRUE, NOTE 4 (TYP.)

(2) 3"-9'-E

2" RGS, 55' TRENCHED

2" RGS, 90' ATTACHED NOTE 4

2" RGC, 135' ATTACHED NOTE 4

2" RGC, 92' ATTACHED NOTE 4

2" PVC 40, 65' TRENCHED

2"-115'-E

(2) 3"-10'-E

2"-160'-E

2"-12'-E

2"-93'-E

(2) 3"-64'-E

(2) 3"-6'-E

(2) 3"-90'-E

(2) 3"-14'-E

2"-115'-E

(2) 3"-50'-E

(2) 3"-10'-E

2"-85'-E

2"-13'-E

125'

126'

133'

128'

126'

125'

20+00

21

22

23

24

19

3423

1423

2423

4423

3422

1422

2422

4422

4421

NOTES

1. FOR ELECTRICAL GENERAL NOTES, LEGENDS AND SYMBOLS, SEE SHEETS E-1, E-2.
2. SEE TRAFFIC SIGNAL INSTALLATION PLANS FOR COMBINATION TRAFFIC SIGNAL/LIGHT POLES AND UNDERGROUND CONDUITS AT INTERSECTIONS.
3. SEE STRUCTURE PLAN FOR BRIDGE MOUNTED FOUNDATION, AND EMBEDDED CONDUITS.
4. SEE CONDUIT MOUNTING ALONG BRIDGE DETAILS SHEET E-5 FOR MORE INFORMATION.

E-9

DEO SHEET NO.

J:\298\Dgn\CADD_Sheets\CDOT\DI60JJ5-sht-CDOTlgt09.dgn

SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

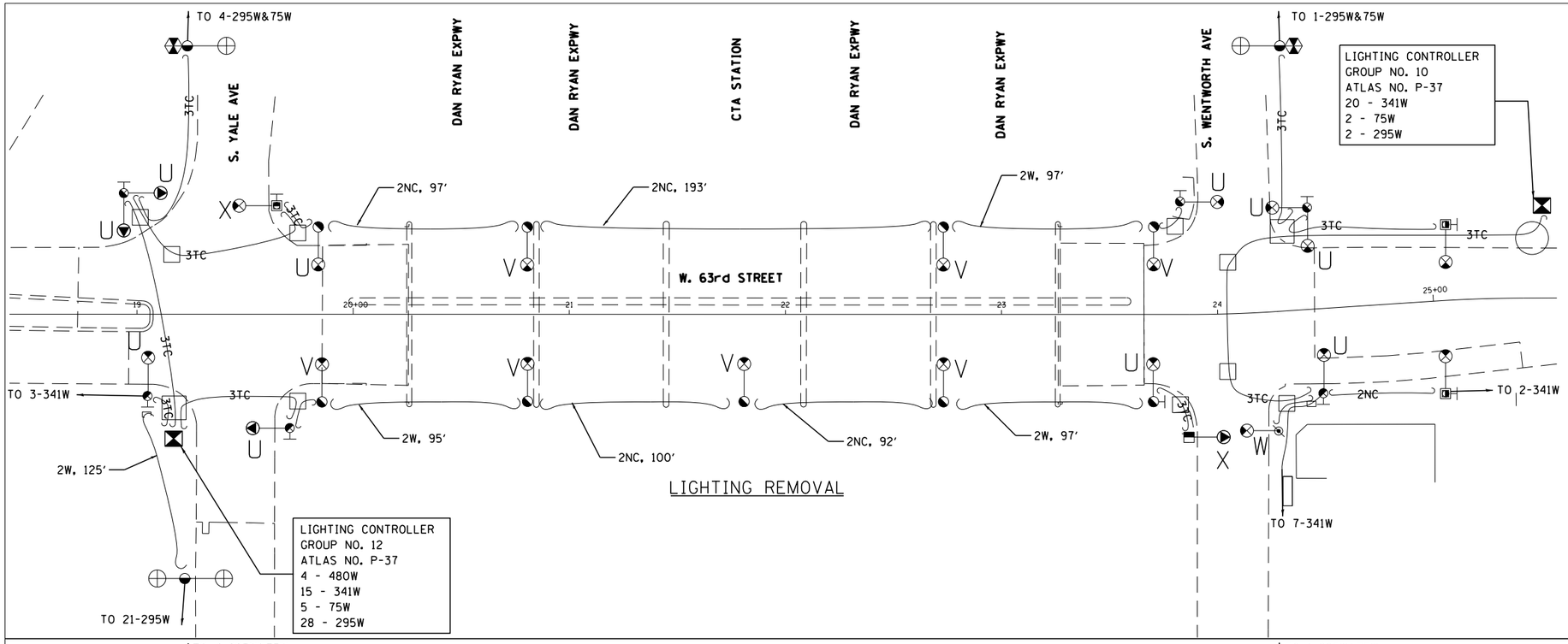
USER NAME = kprajapati	DESIGNED - BN	REVISED -	
	DRAWN - AM	REVISED -	
PLOT SCALE = 40.000039:1.000000	CHECKED - KGP	REVISED -	
PLOT DATE = 27-MAR-2014 15:36	DATE - 5/15/2013	REVISED -	

CITY OF CHICAGO
DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING

63rd STREET OVER DAN RYAN EXPRESSWAY (I-90 /94)
UNDERGROUND CONDUIT FACILITIES

SCALE: 1" = 20' | SHEET NO. 9 OF 13 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	60
		CONTRACT NO. 60J15		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



LIGHTING REMOVAL

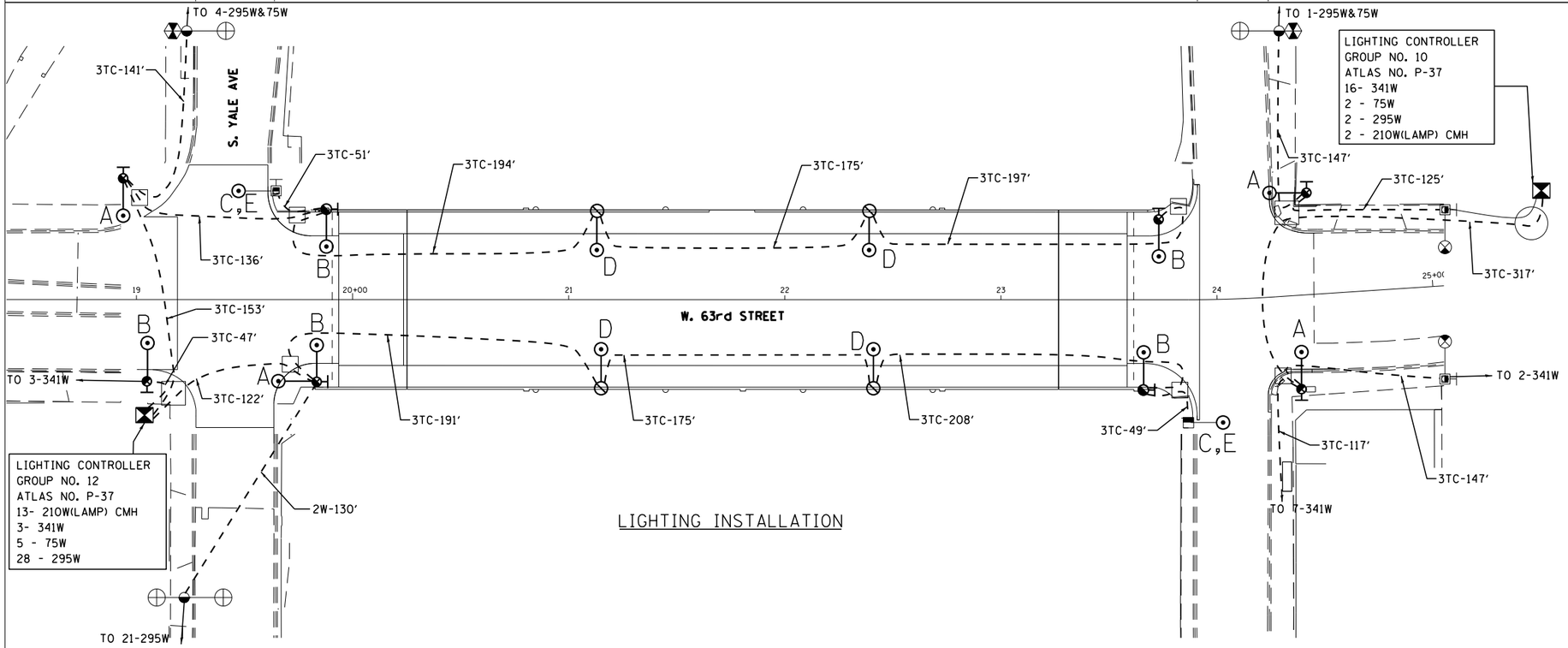
REMOVAL LEGENDS:

"U" -- REMOVE LIGHTING MAST ARM AND LUMINAIRE
SEE TRAFFIC SIGNAL PLANS FOR POLE AND FOUNDATION REMOVAL

"V" -- REMOVE LIGHT POLE, MAST ARM AND LUMINAIRE MOUNTED ON BRIDGE STRUCTURE

"W" -- REMOVE EMBEDDED LIGHT POLE, MAST ARM AND LUMINAIRE

"X" -- REMOVE LUMINAIRE ONLY



LIGHTING INSTALLATION

INSTALLATION LEGENDS:

"A" -- INSTALL 15FT STEEL MAST ARM AND 210W CMH SEMI-CUTOFF COBRAHEAD LUMINAIRE ON TRAFFIC SIGNAL POLE
SEE TRAFFIC SIGNAL PLANS FOR POLE AND FOUNDATION

"B" -- INSTALL 8FT STEEL MAST ARM AND 210W CMH SEMI-CUTOFF COBRAHEAD LUMINAIRE ON TRAFFIC SIGNAL POLE
SEE TRAFFIC SIGNAL PLANS FOR POLE AND FOUNDATION

"C" -- INSTALL 210W CMH SEMI-CUTOFF COBRAHEAD LUMINAIRE ON EXISTING LIGHT POLE

"D" -- INSTALL 8FT STEEL MAST ARM, 210W CMH SEMI-CUTOFF COBRAHEAD LUMINAIRE AND STEEL LIGHT POLE, BLACK PAINT, 32'-6", 11 1/2" B.C. ANCHOR BASE.,

"E" -- PAINT LIGHT POLE BLACK PER STANDARDS

"3TC" -- INSTALL TRIPLEX CABLE, 600V, 2-1/C*6, 1/C*8 (GREEN) GND IN CONDUIT

"2W" -- INSTALL 2-1/C*6 HDNS. AERIAL CABLE

J:\298\Dgn\CADD_Sheets\CDOT\DI60JI5-sht-CDOTlgt10.dgn

E-10

DEO SHEET NO.

USER NAME = kprajapati	DESIGNED - BN	REVISED -	
	DRAWN - AM	REVISED -	
PLOT SCALE = 60.000000:1.000000	CHECKED - KGP	REVISED -	
PLOT DATE = 27-MAR-2014 15:36	DATE - 5/15/2013	REVISED -	

SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS

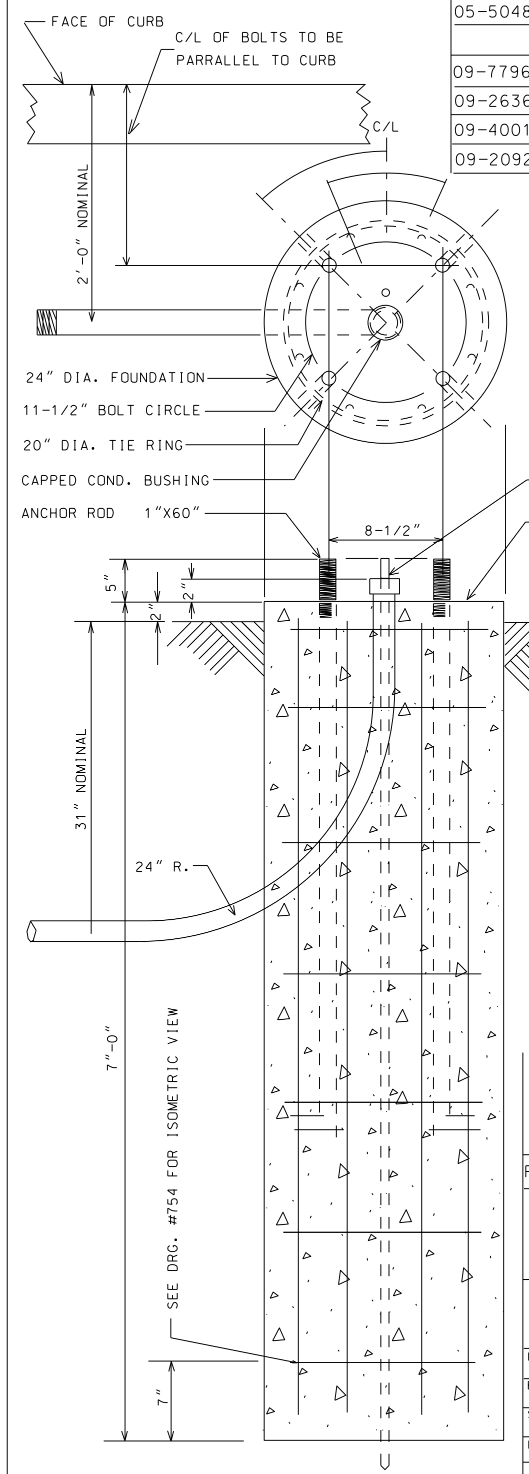
CITY OF CHICAGO
DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING

63rd STREET OVER DAN RYAN EXPRESSWAY (I-90 /94)
STREET LIGHTING REMOVAL AND INSTALLATION PLAN

SCALE: N.T.S. | SHEET NO. 10 OF 13 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	61
		CONTRACT NO. 60JI5		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

BILL OF MATERIALS				
CODE NO.	DWG.	ITEM	SIZE	QTY
05-3267-2940		CONC. CL. "X", 6 BAG	CU. YD.	0.8
37-8180-0220		ANCHOR ROD	1"X60"	4
05-5048-6910	793	REINF. ROD CAGE	5'X20"	1
09-7796-9200		GROUND ROD	3/4"X10'	1
09-2636-3240		GROUND ROD CLAMP	3/4"	1
09-4001-41	11825	COND. ELBOW, 24"R.	AS NOTED	1
09-2092-91		CONDUIT BUSHING	AS NOTED	1



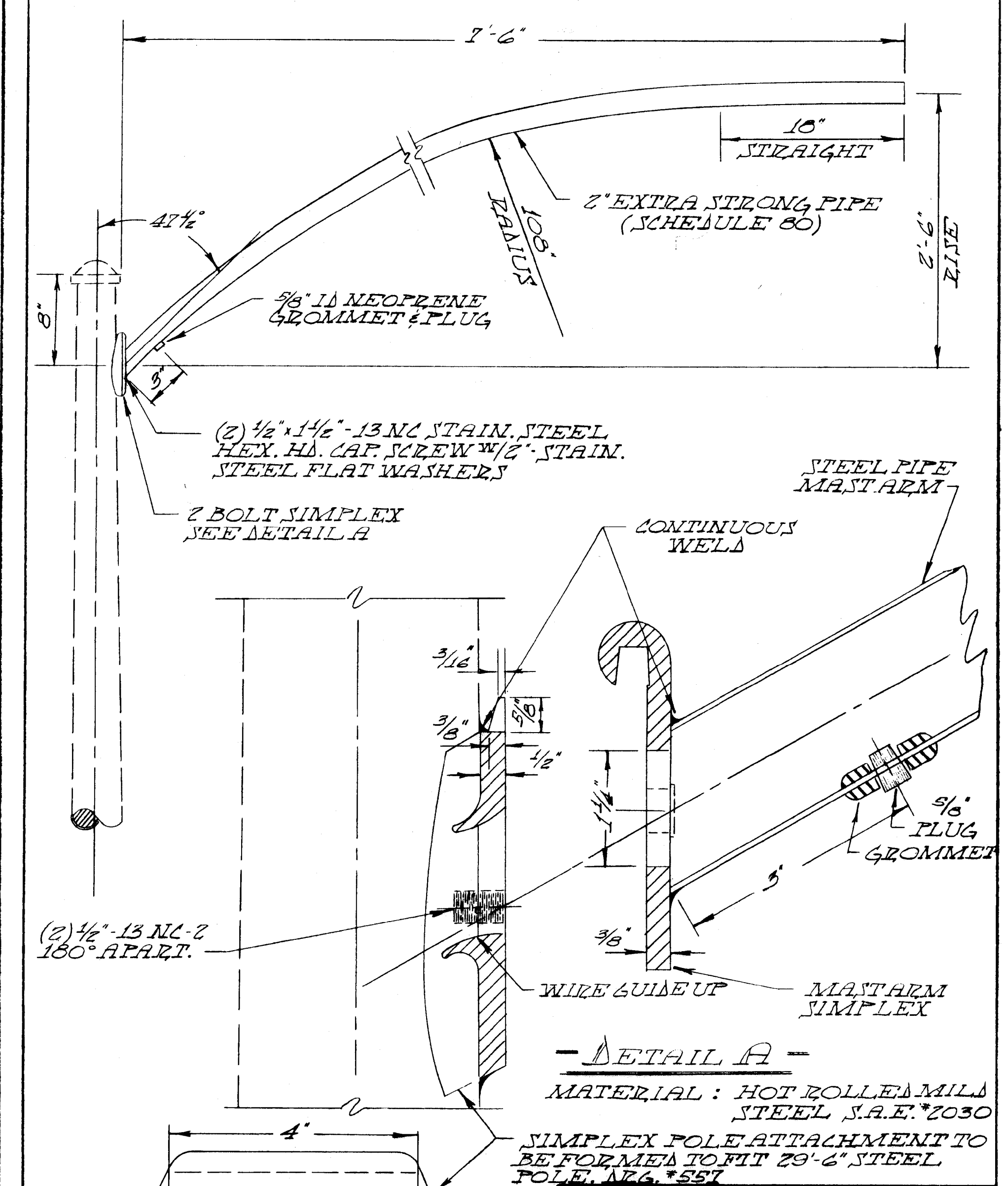
REV. DATE

FOUNDATION FOR 32'-6" ANCHOR BASE POLE WITH ONE ELBOW

CITY OF CHICAGO
DEPARTMENT OF STREETS AND SANITATION
BUREAU OF ELECTRICITY

DRAFTSMAN: R. CARTER | CHIEF DRAFTSMAN: R. CARTER | ENGINEER: J. O'CONNER
ENGINEER OF ELECTRICITY:
SUPERINTENDENT OF CONSTRUCTION:
DEPUTY COMMISSIONER:
SIZE: 8-1/2"X14" | SCALE: NONE | DATE: 3-20-96

753



8' STEEL MAST ARM WITH 2 BOLT SIMPLEX ATTACHMENT

CITY OF CHICAGO
DEPT. OF STREETS AND SANITATION
DIV. OF ELECTRICAL ENGINEERING

REVISED A B C D E F G
DRAWN NIEBLING | CHECKED SHINE | ENGINEER O'CONNOR
DRG. NO. 620
SIZE 8 1/2 x 14 | SCALE ~ | DATE 2-26-64

E-11

SINGH SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	USER NAME = kprajapati	DESIGNED - BN	REVISED -
		DRAWN - AM	REVISED -
	PLOT SCALE = 2.000000:1.000000	CHECKED - KGP	REVISED -
	PLOT DATE = 27-MAR-2014 15:36	DATE - 5/15/2013	REVISED -

CITY OF CHICAGO
DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING

63rd STREET OVER DAN RYAN EXPRESSWAY (I-90 /94)
CDOT STANDARD DETAILS

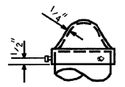
SCALE: N.T.S. | SHEET NO. 11 OF 13 SHEETS | STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	62

CONTRACT NO. 60JI5

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

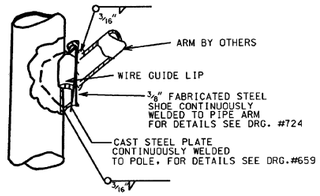
J:\298\Dgn\CADD_Sheets\CDOT\DI60JI5-sht-CDOTlgtll.dgn



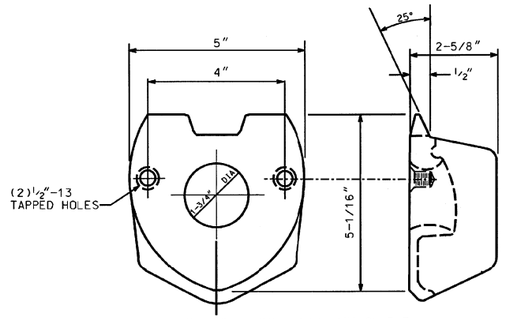
3/8"-16NCX3/4" LONG
SET SCREWS (3@120°)

POLE CAP

FOR DETAILS SEE DRG.# 11420-A

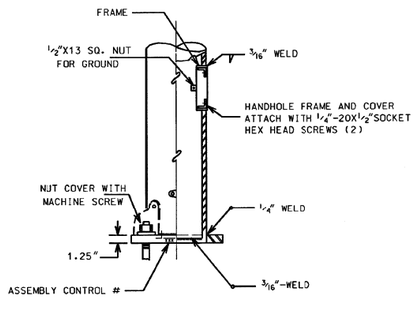


SECTION AT POLE PLATE

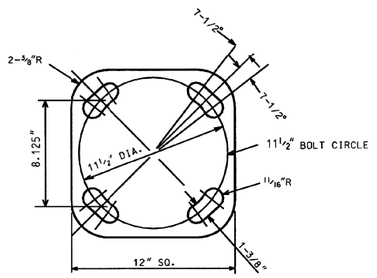


2 BOLT MAST ARM ATTACHMENT

FOR DETAILS SEE DRG.# 659 MATERIAL: CAST STEEL

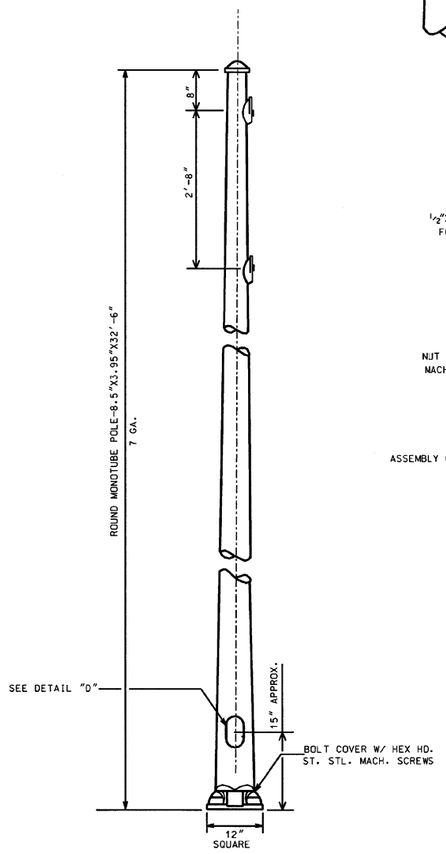


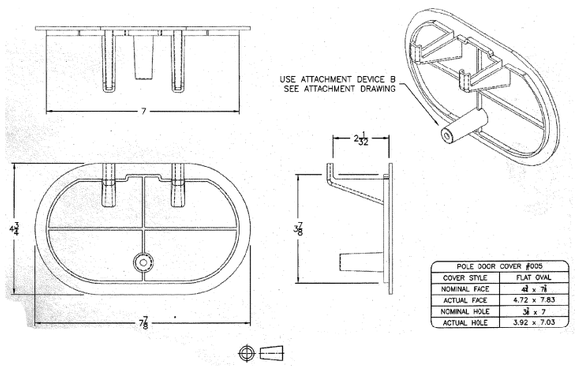
DETAIL "D"



DETAIL "A"

BOLT SLOTS





POLE DOOR COVER #0025	
COVER STYLE	FLAT OVAL
NOMINAL FACE	4⅞ x 7¾
ACTUAL FACE	4.72 x 7.83
NOMINAL HOLE	3½ x 7
ACTUAL HOLE	3.92 x 7.03

HANDHOLE DETAIL

3.95"x8.5" STEEL/32'-6" POLE
7 GAUGE

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

DRAFTSMAN:	CHIEF DRAFTSMAN:	ENGINEER:
ROBERT IVY	ROBERT CARTER	RON POOL

SUPERVISING ENGINEER: ELEC. DESIGN ENGR.

ENGINEER OF ELECTRICITY:

GEN'L SUPT. OF ELECTRICITY:

DEPUTY COMMISSIONER: Brian S. Murphy

DWG. NO. **762**

10-03-01

E-12

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SINGH + ASSOCIATES, INC CONSULTING ENGINEERS

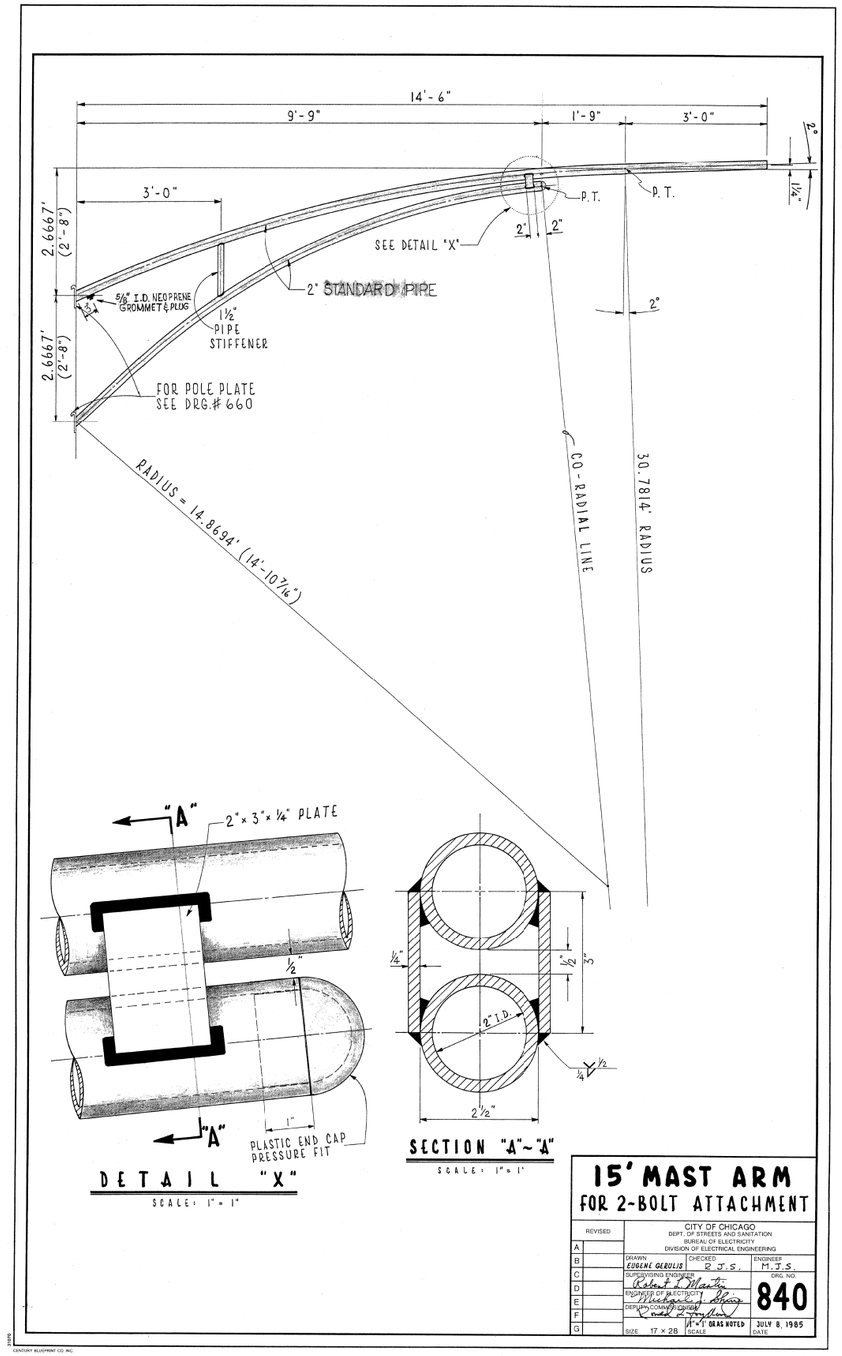
USER NAME = kprojapati	DESIGNED - BN	REVISED -	
	DRAWN - AM	REVISED -	
PLOT SCALE = 2.000000:1.000000	CHECKED - KGP	REVISED -	
PLOT DATE = 27-MAR-2014 15:37	DATE - 5/15/2013	REVISED -	

CITY OF CHICAGO
DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING

63rd STREET OVER DAN RYAN EXPRESSWAY (I-90 /94)
CDOT STANDARD DETAILS

SCALE: N.T.S. | SHEET NO. 12 OF 13 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	63
		CONTRACT NO. 60JI5		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



DETAIL "X"

SCALE: 1" = 1"

SECTION "A"~"A"

SCALE: 1" = 1"

15' MAST ARM
FOR 2-BOLT ATTACHMENT

REVISED		CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING		
A		DRAWN	CHECKED	ENGINEER
B		EUGENE GLEROLIS	R.J.S.	M.J.S.
C		SUPERVISING ENGINEER		ORIG. NO.
D		ENGINEER OF ELECTRICITY		840
E		DEPUTY COMMISSIONER		
F		SIZE 17 x 28	SCALE 1"=1" UNLESS NOTED	DATE JULY 8, 1985
G				

CENTURY BLUEPRINT CO. INC.

E-13

SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	USER NAME = kprajapati	DESIGNED - BN	REVISED -	CITY OF CHICAGO DEPARTMENT OF TRANSPORTATION DIVISION OF ENGINEERING
		DRAWN - AM	REVISED -	
	PLOT SCALE = 2.000000:1.000000	CHECKED - KGP	REVISED -	
	PLOT DATE = 27-MAR-2014 15:39	DATE - 5/15/2013	REVISED -	

63rd STREET OVER DAN RYAN EXPRESSWAY (I-90 /94)
CDOT STANDARD DETAILS

SCALE: N.T.S. | SHEET NO. 13 OF 13 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	64
		CONTRACT NO. 60J15		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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Benchmark #1: Cut square on Northeast corner of concrete base of traffic control box at Southeast corner of 63rd Street & Wentworth Ave., Elevation 603.07.

Existing Structure: S.N. 016-1149, originally built as F.A.I. Route 94, Section 066-1920-C.F., 63rd Street Grade Separation over South Route (present Dan Ryan) Expressway, project BUI-94-3(55)56 in 1960. The existing five span structure consists of simple span 33" deep PPC deck beams. A 5" thick reinforced concrete deck was added in 1994. The substructure consists of closed abutments and reinforced concrete piers consisting of a cap beam and multiple rectangular columns on a crashwall. The back to back abutment measures 302'-5⅝" and the out to out of deck is 83'-0". The existing superstructure is to be removed and replaced. The substructure will remain, except that the piers will be rebuilt above the existing crashwalls and the abutment seats will be rebuilt. Pedestrian access to the CTA rail station shall be maintained at all times using staged construction.

No Salvage.

Notes:
1. Min. vertical clearance points occur at north fascia beam typ.
2. ℄ 63rd Street is approximately at CTA Sta. 249+50.

LEGEND

- —E—E— Existing Electric
- —E—E— Proposed Electric
- —T—T— Telephone Cable
- —W— Water Pipe

DESIGN STRESSES

FIELD UNITS (New Const.)

f'c = 3,500 psi
fy = 60,000 psi (reinforcement)
fy = 50,000 psi (M270 Grade 50)

FIELD UNITS (Existing Const.)

f'c = 3,500 psi
fy = 40,000 psi (reinforcement)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.07g
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.11g
Soil Site Class = C

DESIGN SPECIFICATIONS (New Const.)

AASHTO LRFD Bridge Design Specifications
5th Edition with 2010 Interims

LOADING HL-93 (New Const.)

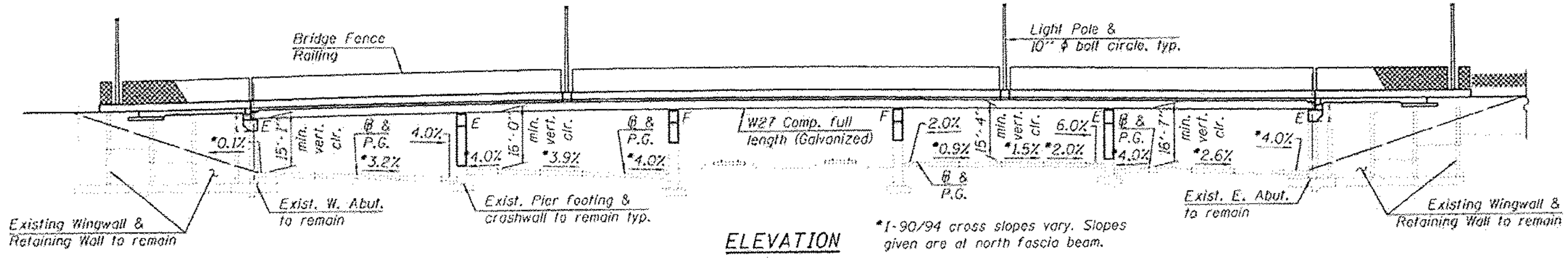
Allow 50#/sq. ft. for future wearing surface

Sta. A = Sta. 20+55.35 @ ℄ 63rd Street
Sta. 3422+31.65 @ ℄ SB Local Lanes

Sta. B = Sta. 21+31.12 @ ℄ 63rd Street
Sta. 1422+37.79 @ ℄ SB Express Lanes

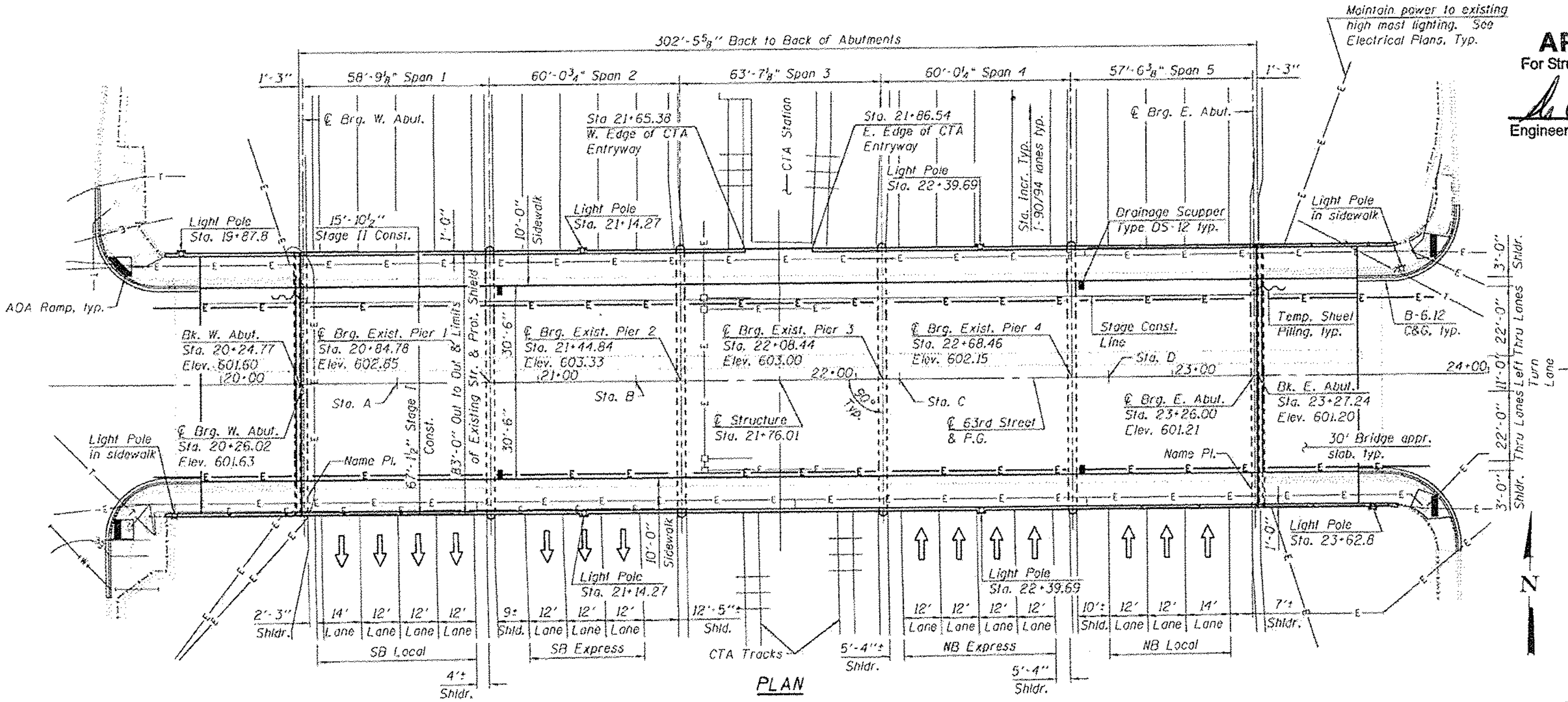
Sta. C = Sta. 22+13.83 @ ℄ 63rd Street
Sta. 2422+55.54 @ ℄ NB Express Lanes

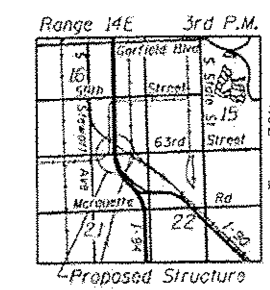
Sta. D = Sta. 22+79.96 @ ℄ 63rd Street
Sta. 4422+54.06 @ ℄ NB Local Lanes



ELEVATION

*I-90/94 cross slopes vary. Slopes given are at north fascia beam.





LOCATION SKETCH

APPROVED
For Structural Adequacy Only
Engineer of Bridges & Structures

EXPIRES: 11/30/2014

GENERAL PLAN & ELEVATION
63RD STREET OVER I-90/94
F.A.U. ROUTE 1519 - SEC. 1920-B
COOK COUNTY
STATION 21+76.01
STRUCTURE NO. 016-1149

GRAEF
8501 W. Higgins Road Suite 280
Chicago, Illinois 60631: (773) 399-0112

USER NAME =	DESIGNED - J.Z.	REVISED -	
	CHECKED - J.A.Z.	REVISED -	
PLOT SCALE =	DRAWN - E.E.J.	REVISED -	
PLOT DATE =	DATE - 3/31/2014	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
STRUCTURE NO. 016-1149
SHEET NO. S1 OF 50 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	65
		CONTRACT NO. 60J15		
		ILLINOIS FED. AID PROJECT		

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Superstructures	Each	1		1
Concrete Removal	Cu. Yd.		309	309
Protective Shield	Sq. Yd.	2,652		2,652
Structure Excavation	Cu. Yd.		217	217
Concrete Structures	Cu. Yd.		385.7	385.7
Concrete Superstructure	Cu. Yd.	1,142.5		1,142.5
Bridge Deck Grooving	Sq. Yd.	2,390		2,390
Protective Coat	Sq. Yd.	3,607		3,607
Furnishing & Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	16,830		16,830
Reinforcement Bars, Epoxy Coated	Pound	258,200	75,160	333,360
Bar Splicers	Each	1,298	314	1,612
Bridge Fence Railing	Foot	755		755
Temporary Bridge Complete	Each	1		1
Name Plates	Each	2		2
Preformed Joint Strip Seal	Foot	167		167
Elastomeric Bearing Assembly, Type I	Each		22	22
Elastomeric Bearing Assembly, Type II	Each		22	22
Anchor Bolts, 3/4''	Each		44	44
Anchor Bolts, 1''	Each		88	88
Concrete Sealer	Sq. Ft.		8,540	8,540
Epoxy Crack Injection	Foot		19	19
Temporary Fence (Special)	Foot	453		453
Granular Backfill for Structures	Cu. Yd.		92	92
Temporary Shoring	Each	4		4
Structural Repair of Concrete (Depth Equal to or Less Than 5 Inches)	Sq. Ft.		797	797
Drainage Scuppers, DS-12	Each	4		4
Drainage System	L. Sum	1		1
Temporary Sheet Piling	Sq. Ft.		327	327

BRIDGE GENERAL NOTES

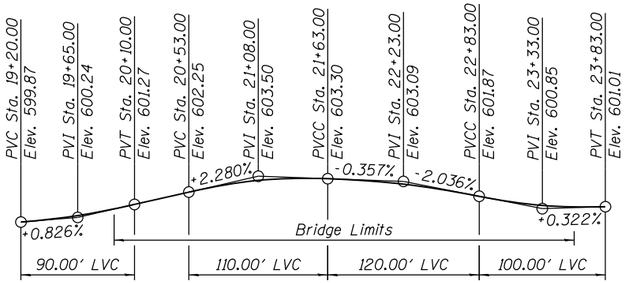
1. Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts. Bolts $^{7}/_{8}$'' diameter, holes $^{15}/_{16}$'' diameter, unless otherwise noted.
2. Calculated weight of Structural Steel: AASHTO M270 Grade 36 = 36,240 lbs.
   AASHTO M270 Grade 50 = 462,190 lbs.
3. All new structural steel shall be galvanized. See the Special Provision "Hot Dip Galvanizing for Structural Steel".
4. No field welding is permitted except as specified in the contract documents.
5. Reinforcement bars designated (E) shall be epoxy coated.
6. 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.
7. Bearing seat surfaces shall be constructed or adjusted to the designed elevations within a tolerance of $^{1}/_{8}$ in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
8. Concrete Sealer shall be applied to all exposed surfaces of the new concrete at both abutments and at all four piers.
9. Slipforming of the parapets is not allowed.
10. Protective Shield shall be provided at all spans, face-to-face of piers or abutments and out-to-out of existing superstructure.
11. For more information regarding utility lines and locations, see Drainage & Utilities plan.

STATION 21+76.01
RE-BUILT 201_ BY
STATE OF ILLINOIS
F.A.U. RTE. 1519 SEC. 1920-B
LOADING HL-93
STRUCTURE NO. 016-1149

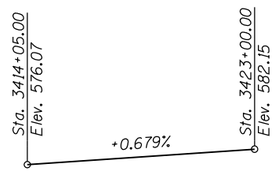
NAME PLATE

See Std. 515001. Two required. Place new name plates next to existing name plates at each abutment.

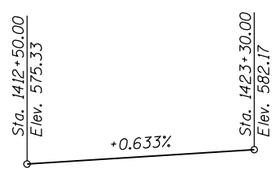
INDEX OF SHEETS



PROFILE GRADE, 63RD STREET



PROFILE GRADE
I-90/94 SB LOCAL LANES



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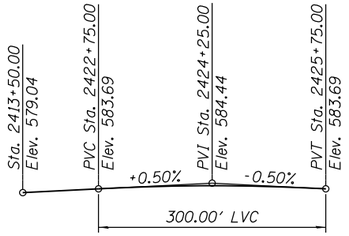
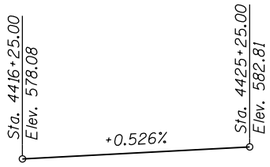
I-90/94 SB EXPRESS LANES



PROFILE GRADE
I-90/94 NB EXPRESS LANES



PROFILE GRADE
I-90/94 NB LOCAL LANES

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GRĒEF
8501 W. Higgins Road; Suite 280
Chicago, Illinois 60631; (773) 399-0112

USER NAME =	DESIGNED - J.Z.	REVISED -	
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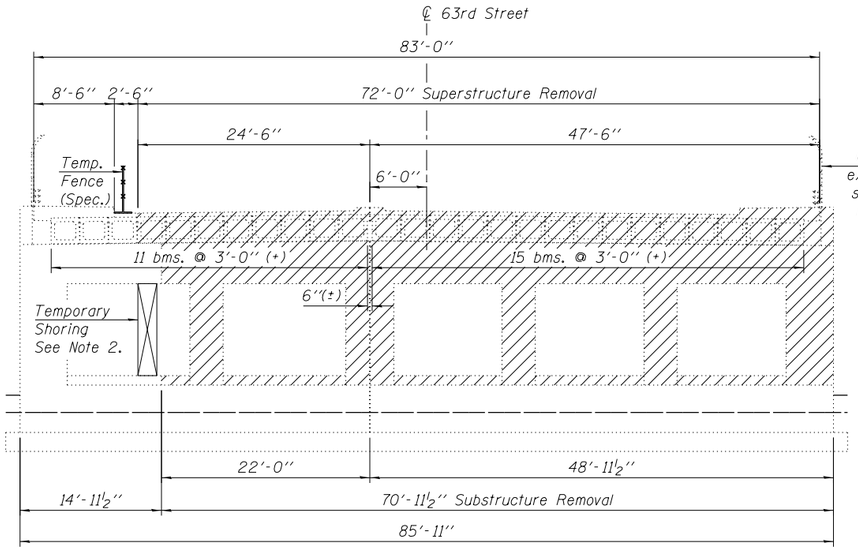
PLOT DATE =	DATE - 3/31/2014	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES & TOTAL BILL OF MATERIAL
STRUCTURE NO. 016-1149
SHEET NO. S2 OF 50 SHEETS

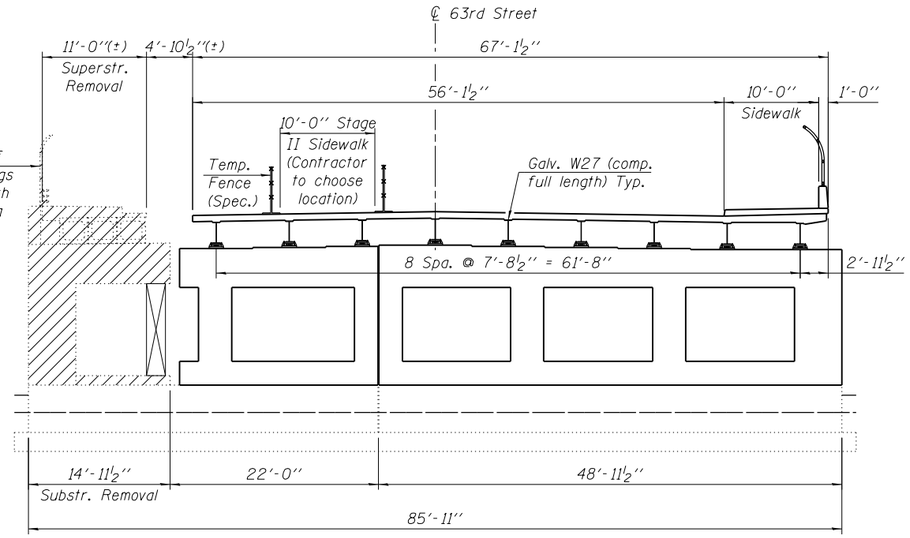
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	66
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			



STAGE I REMOVAL

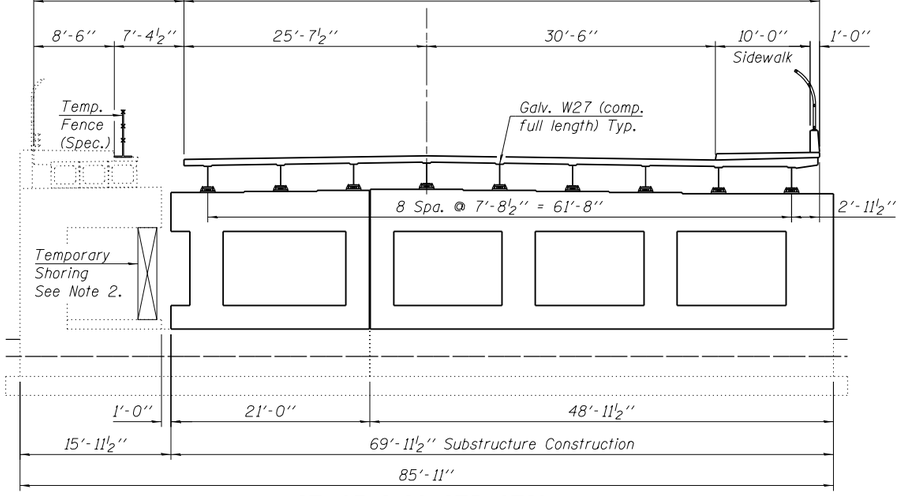
(Pier 1 shown, looking East)

Cost for removal of existing bridge railings shall be included with Removal of Existing Superstructures



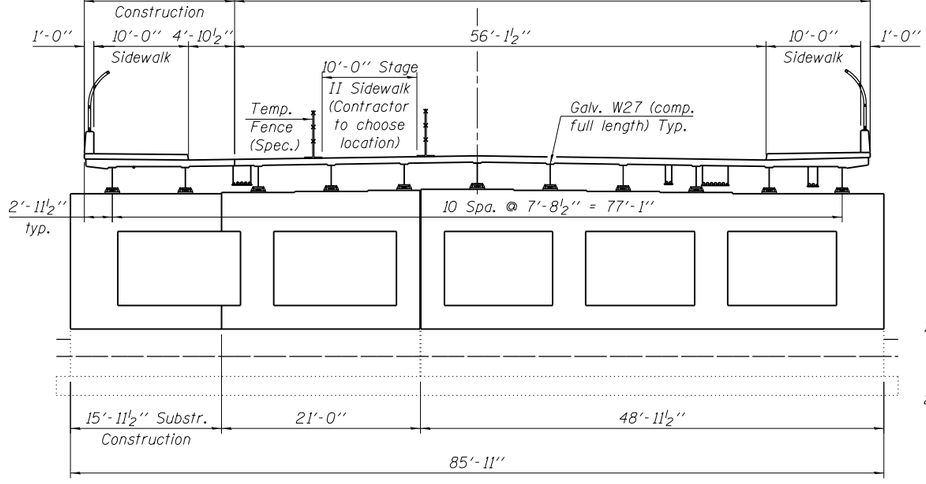
STAGE II REMOVAL

(Pier 1 shown, looking East)



STAGE I CONSTRUCTION

(Pier 1 shown, looking East)



STAGE II CONSTRUCTION

(Pier 1 shown, looking East)

NOTES

1. Access to the CTA Red Line station shall be maintained throughout construction. During Stages I the North sidewalk shall remain open.
2. At each Pier, provide Temporary Shoring at the start of Stage I Removal. The Temporary Shoring shall be designed for the following unfactored loads:
   Dead Load=212 kips
   Live Load= 27 kips
3. The existing sidewalks may contain asbestos cement ducts. Ducts attached to the bridge fascias may also contain asbestos. The Contractor is responsible for removal and proper disposal of all existing ducts/conduit. This cost shall be included in Removal of Existing Superstructures (unless paid elsewhere).
4. Removal and disposal of the existing metal railings, fence and light poles shall be included in Removal of Existing Superstructures.
5. Stage Removal and Construction lines are different for the superstructure and substructure.

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GRÄEF
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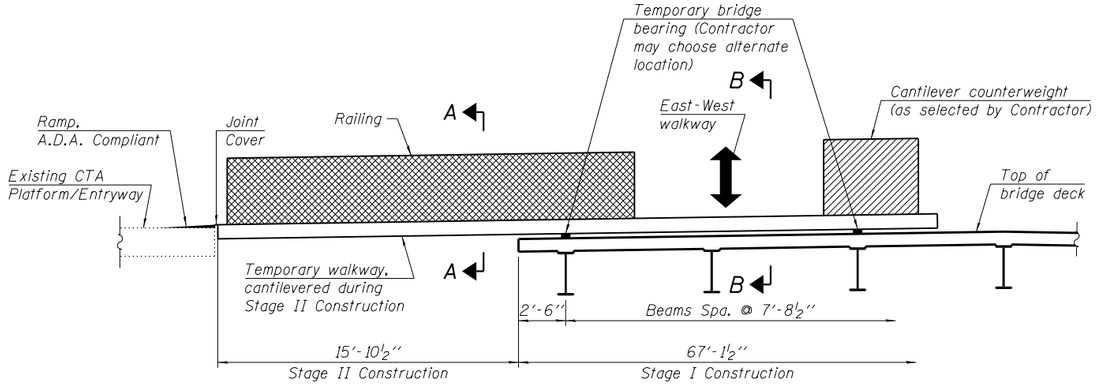
PLOT SCALE =	DRAWN - E.E.J.	REVISED -
PLOT DATE =	DATE - 3/31/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

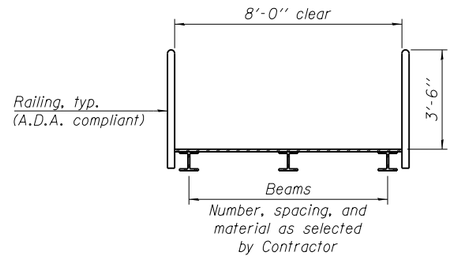
CONSTRUCTION STAGING
STRUCTURE NO. 016-1149
SHEET NO. S3 OF 50 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	67
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

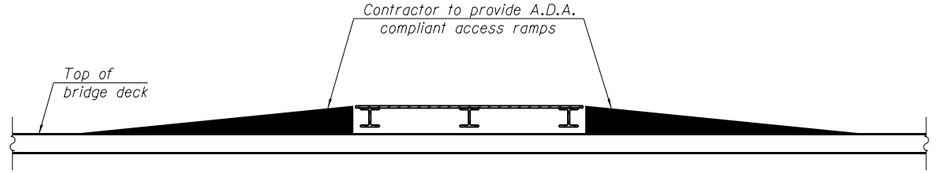


BRIDGE CROSS-SECTION

(Looking East)



SECTION A-A



SECTION B-B

NOTES

1. The Contractor shall design and furnish one "Temporary Bridge Complete" for Stage II Removal and Construction. The bridge is required to provide access to the CTA Station from the Stage II sidewalk. The bridge shall meet the requirements of Section 513 of the Standard Specifications, and shall be suitable for pedestrian traffic and shall meet all A.D.A. requirements. The clear span of the bridge shall be 15'-10½" (the Stage II construction width) and the clear width shall be 8 feet. The design live load shall be 85 psf.

   The CTA Station has two sets of double doors. Access to at least one pair of doors must be maintained throughout Stage II. The Contractor may choose to design a temporary bridge that could be moved with a crane to allow removal of existing deck beams, placement of new steel beams, placement of deck concrete, and placement of the concrete sidewalk. The new sidewalk can be placed using two separate concrete pours (one transverse construction joint in the sidewalk is acceptable). For existing beam removal, new beam placement and concrete deck placement, Station access may be closed between midnight and 5 AM, Monday thru Thursday, only. Access to the Station must be maintained at all other times. The Contractor must coordinate the station closures with the CTA. Regardless of the staging method selected by the Contractor, payment will be made for only one Temporary Bridge Complete.

GRAEF
8501 W. Higgins Road; Suite 280
Chicago, Illinois 60631; (773) 399-0112

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PLOT SCALE =	DRAWN - E.E.J.	REVISED -
PLOT DATE =	DATE - 3/31/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY BRIDGE LAYOUT
STRUCTURE NO. 016-1149
SHEET NO. 54 OF 50 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	68
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

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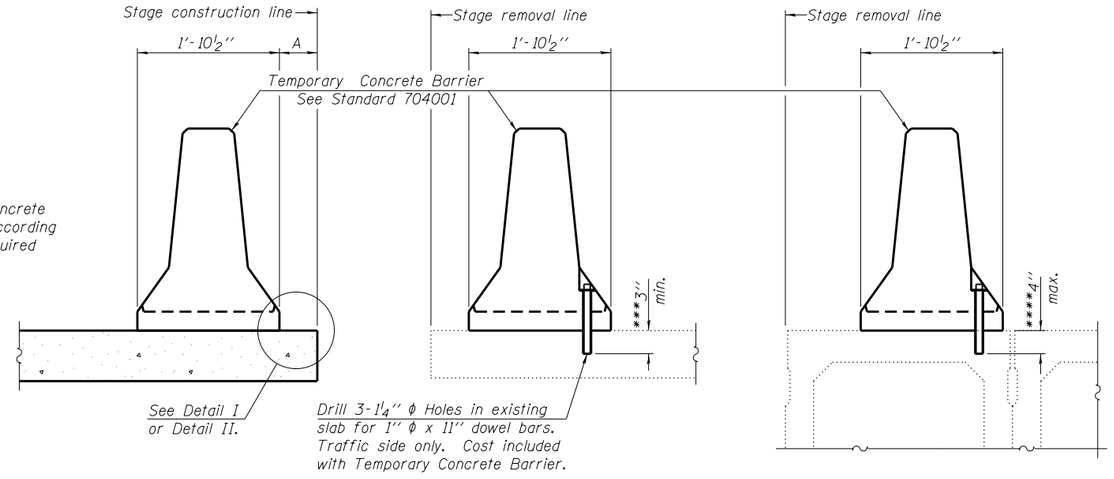
When "A" is 3'-6" or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-6".



NEW SLAB

EXISTING SLAB

EXISTING DECK BEAM

NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7" x "W" steel ℙ to the top layer of couplers with 2-⅝" ϕ bolts screwed to coupler at approximate ℄ of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1" x 7" x "W" steel ℙ to the concrete slab or concrete wearing surface with 2-⅝" ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate ℄ of each barrier panel.

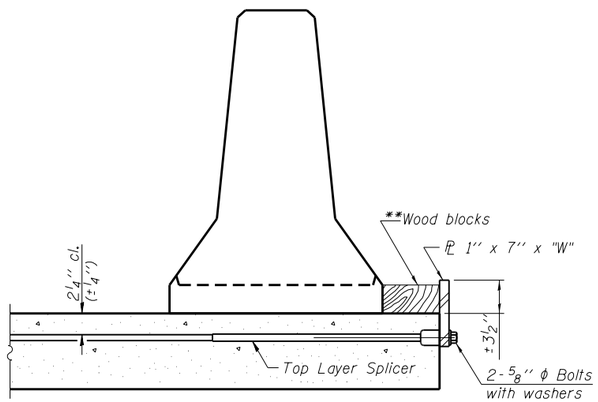
Cost of anchorage is included with Temporary Concrete Barrier.

The 1" x 7" x "W" plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

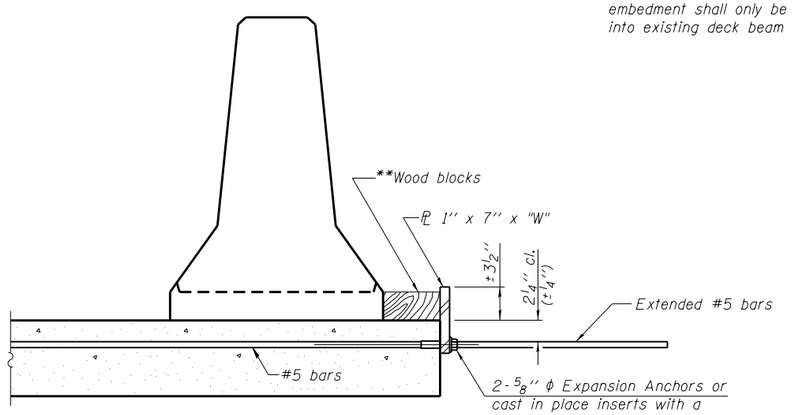
SECTIONS THRU SLAB OR DECK BEAM

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

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



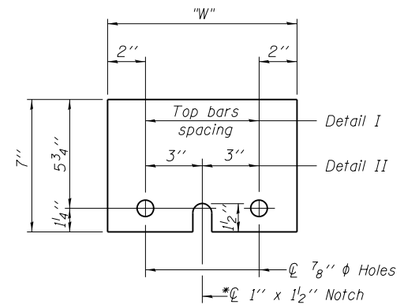
DETAIL I



DETAIL II

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

"W" = Top bars spacing + 4"



STEEL RETAINER ℙ 1" x 7" x "W"

* Required only with Detail II

R-27

7-1-10

USER NAME =	DESIGNED - J.Z.	REVISED -	
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GRāEF
8501 W. Higgins Road; Suite 280
Chicago, Illinois 60631; (773) 399-0112

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 016-1149

SHEET NO. 55 OF 50 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	69
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

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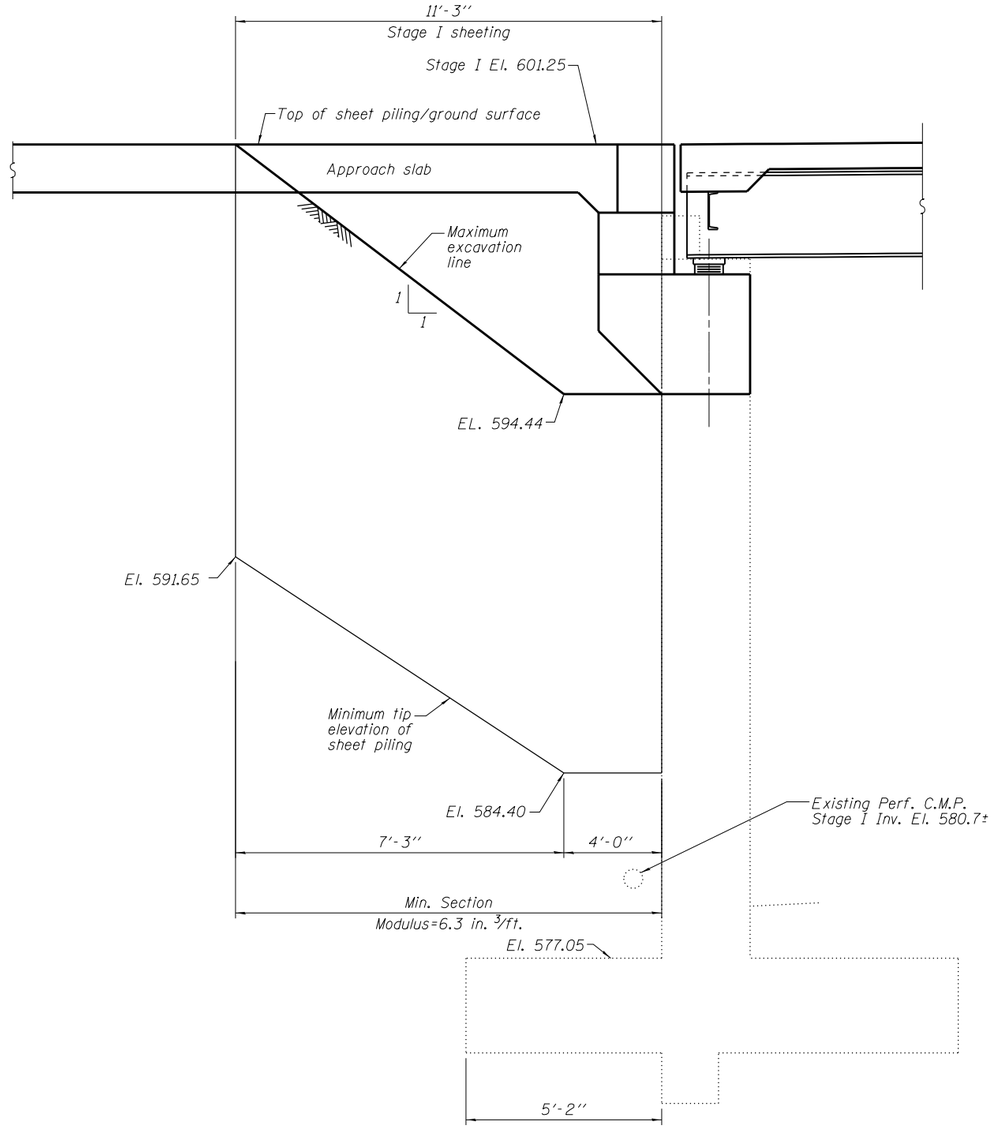
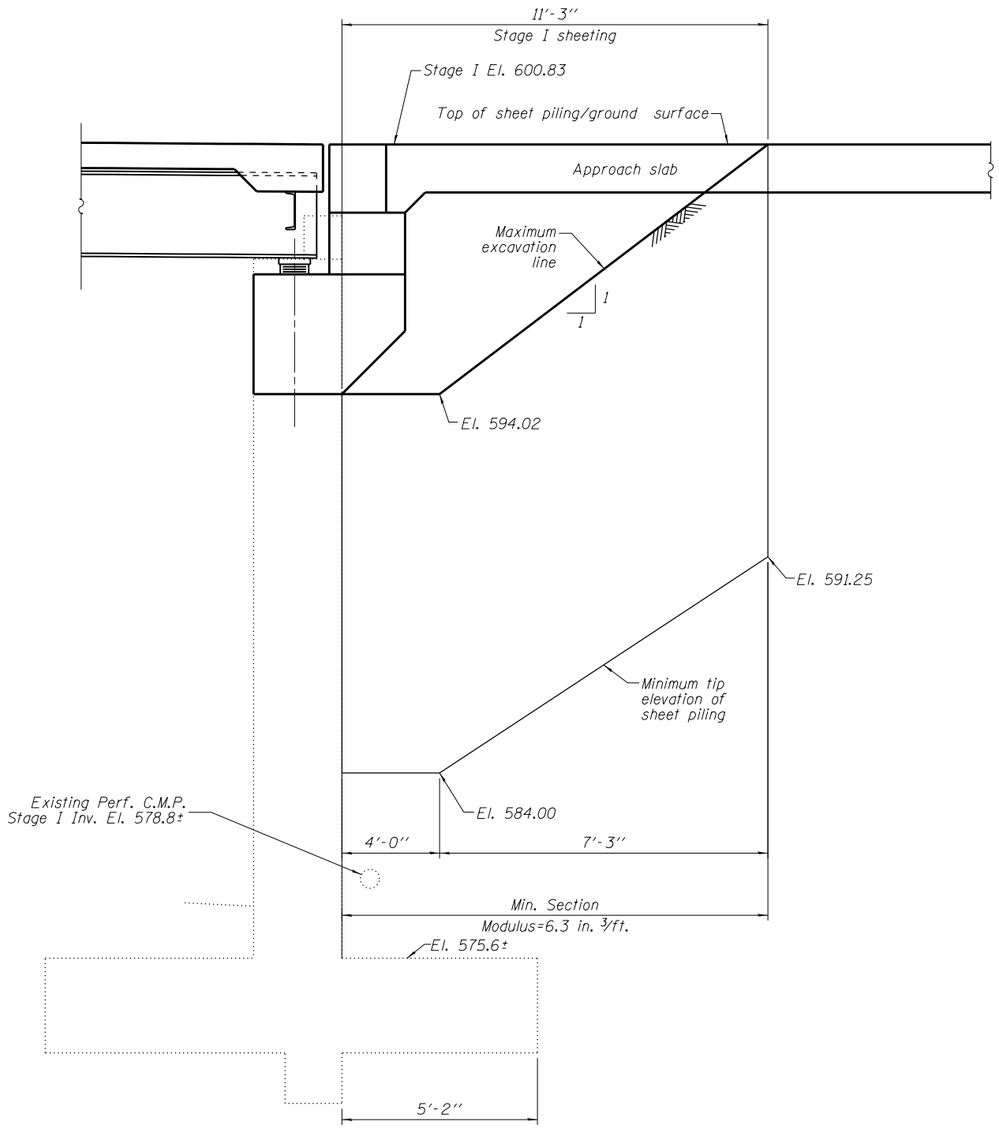


ELEVATION VIEW OF TEMPORARY SHEET PILING
LOOKING NORTH AT WEST ABUTMENT



ELEVATION VIEW OF TEMPORARY SHEET PILING
LOOKING NORTH AT EAST ABUTMENT

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Temporary Sheet Piling	Sq. Ft.	327

NOTES

1. If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.
2. The temporary sheet piling shall be installed prior to excavation in Stage I. Remove temporary sheet piling after backfilling in Stage II.

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	CHECKED - J.A.Z.	REVISED -
PLOT SCALE =	DRAWN - E.E.J.	REVISED -
PLOT DATE =	DATE - 3/31/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY SHEET PILING
STRUCTURE NO. 016-1149
SHEET NO. S6 OF 50 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	70
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

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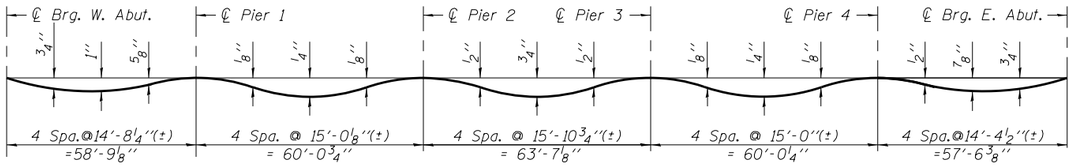
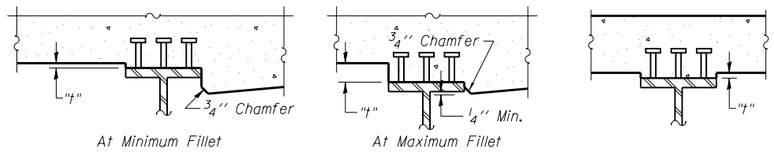


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

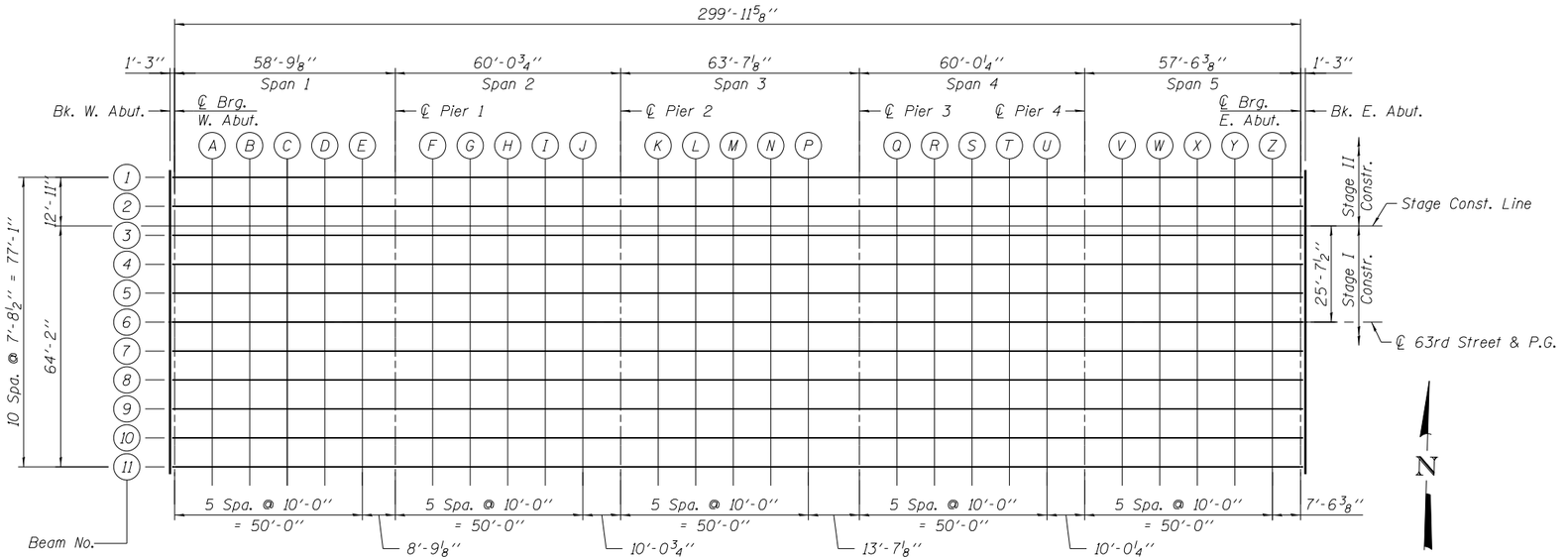
Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on Sheets S8 thru S12.



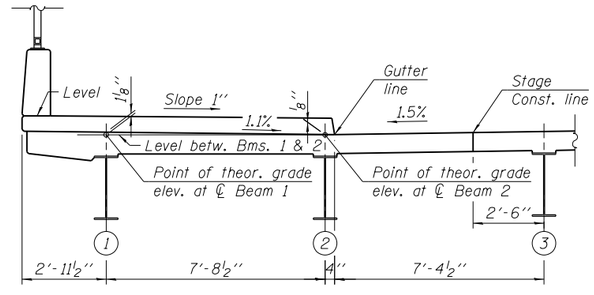
EXTERIOR BEAMS **INTERIOR BEAMS**

To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on Sheets S8 thru S12, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

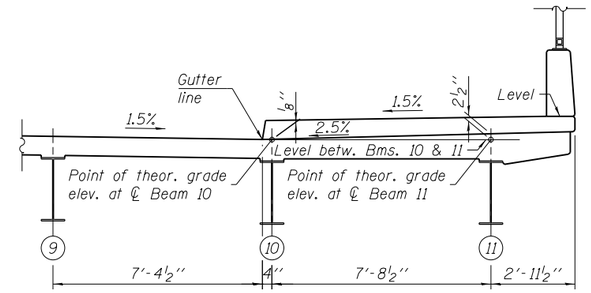


PLAN



SECTION THRU NORTH SIDEWALK

(Looking East)



SECTION THRU SOUTH SIDEWALK

(Looking East)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF DECK SLAB ELEVATIONS LAYOUT
STRUCTURE NO. 016-1149
SHEET NO. S7 OF 50 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	71
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
BK. W. ABUT.	20+24.77	-38.54	601.14	601.14
CL. Brg. W. Abut.	20+26.02	-38.54	601.17	601.17
A	20+36.02	-38.54	601.40	601.44
B	20+46.02	-38.54	601.62	601.70
C	20+56.02	-38.54	601.85	601.93
D	20+66.02	-38.54	602.06	602.12
E	20+76.02	-38.54	602.24	602.27
CL. Brg. Pier 1	20+84.78	-38.54	602.39	602.39
F	20+94.78	-38.54	602.53	602.53
G	21+04.78	-38.54	602.64	602.65
H	21+14.78	-38.54	602.73	602.75
I	21+24.78	-38.54	602.80	602.82
J	21+34.78	-38.54	602.85	602.85
CL. Brg. Pier 2	21+44.84	-38.54	602.87	602.87
K	21+54.84	-38.54	602.86	602.88
L	21+64.84	-38.54	602.83	602.88
M	21+74.84	-38.54	602.79	602.85
N	21+84.84	-38.54	602.73	602.78
P	21+94.84	-38.54	602.66	602.69
CL. Brg. Pier 3	22+08.44	-38.54	602.53	602.53
Q	22+18.44	-38.54	602.43	602.43
R	22+28.44	-38.54	602.31	602.32
S	22+38.44	-38.54	602.17	602.19
T	22+48.44	-38.54	602.03	602.04
U	22+58.44	-38.54	601.86	601.87
CL. Brg. Pier 4	22+68.46	-38.54	601.69	601.69
V	22+78.46	-38.54	601.50	601.52
W	22+88.46	-38.54	601.30	601.35
X	22+98.46	-38.54	601.12	601.19
Y	23+08.46	-38.54	600.96	601.03
Z	23+18.46	-38.54	600.83	600.87
CL. Brg. E. Abut.	23+26.00	-38.54	600.75	600.75
BK. E. ABUT.	23+27.24	-38.54	600.74	600.74

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
BK. W. ABUT.	20+24.77	-30.83	601.14	601.14
CL. Brg. W. Abut.	20+26.02	-30.83	601.17	601.17
A	20+36.02	-30.83	601.40	601.44
B	20+46.02	-30.83	601.62	601.70
C	20+56.02	-30.83	601.85	601.93
D	20+66.02	-30.83	602.06	602.12
E	20+76.02	-30.83	602.24	602.27
CL. Brg. Pier 1	20+84.78	-30.83	602.39	602.39
F	20+94.78	-30.83	602.53	602.53
G	21+04.78	-30.83	602.64	602.65
H	21+14.78	-30.83	602.73	602.75
I	21+24.78	-30.83	602.80	602.82
J	21+34.78	-30.83	602.85	602.85
CL. Brg. Pier 2	21+44.84	-30.83	602.87	602.87
K	21+54.84	-30.83	602.86	602.88
L	21+64.84	-30.83	602.83	602.88
M	21+74.84	-30.83	602.79	602.85
N	21+84.84	-30.83	602.73	602.78
P	21+94.84	-30.83	602.66	602.69
CL. Brg. Pier 3	22+08.44	-30.83	602.53	602.53
Q	22+18.44	-30.83	602.43	602.43
R	22+28.44	-30.83	602.31	602.32
S	22+38.44	-30.83	602.17	602.19
T	22+48.44	-30.83	602.03	602.04
U	22+58.44	-30.83	601.86	601.87
CL. Brg. Pier 4	22+68.46	-30.83	601.69	601.69
V	22+78.46	-30.83	601.50	601.52
W	22+88.46	-30.83	601.30	601.35
X	22+98.46	-30.83	601.12	601.19
Y	23+08.46	-30.83	600.96	601.03
Z	23+18.46	-30.83	600.83	600.87
CL. Brg. E. Abut.	23+26.00	-30.83	600.75	600.75
BK. E. ABUT.	23+27.24	-30.83	600.74	600.74

STAGE CONST. LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
BK. W. ABUT.	20+24.77	-25.63	601.22	601.22
CL. Brg. W. Abut.	20+26.02	-25.63	601.25	601.25
A	20+36.02	-25.63	601.47	601.52
B	20+46.02	-25.63	601.70	601.78
C	20+56.02	-25.63	601.93	602.01
D	20+66.02	-25.63	602.14	602.20
E	20+76.02	-25.63	602.32	602.35
CL. Brg. Pier 1	20+84.78	-25.63	602.47	602.47
F	20+94.78	-25.63	602.61	602.60
G	21+04.78	-25.63	602.72	602.73
H	21+14.78	-25.63	602.81	602.83
I	21+24.78	-25.63	602.88	602.90
J	21+34.78	-25.63	602.92	602.93
CL. Brg. Pier 2	21+44.84	-25.63	602.94	602.94
K	21+54.84	-25.63	602.94	602.96
L	21+64.84	-25.63	602.91	602.96
M	21+74.84	-25.63	602.87	602.93
N	21+84.84	-25.63	602.81	602.86
P	21+94.84	-25.63	602.74	602.77
CL. Brg. Pier 3	22+08.44	-25.63	602.61	602.61
Q	22+18.44	-25.63	602.51	602.51
R	22+28.44	-25.63	602.39	602.40
S	22+38.44	-25.63	602.25	602.27
T	22+48.44	-25.63	602.10	602.12
U	22+58.44	-25.63	601.94	601.94
CL. Brg. Pier 4	22+68.46	-25.63	601.77	601.77
V	22+78.46	-25.63	601.57	601.60
W	22+88.46	-25.63	601.38	601.43
X	22+98.46	-25.63	601.20	601.27
Y	23+08.46	-25.63	601.04	601.11
Z	23+18.46	-25.63	600.91	600.95
CL. Brg. E. Abut.	23+26.00	-25.63	600.83	600.83
BK. E. ABUT.	23+27.24	-25.63	600.81	600.81

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PLOT DATE =	DATE - 3/31/2014	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF DECK SLAB ELEVATIONS I
STRUCTURE NO. 016-1149
SHEET NO. 58 OF 50 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	72
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
BK. W. ABUT.	20+24.77	-23.13	601.26	601.26
CL. Brg. W. Abut.	20+26.02	-23.13	601.28	601.28
A	20+36.02	-23.13	601.51	601.56
B	20+46.02	-23.13	601.74	601.82
C	20+56.02	-23.13	601.97	602.05
D	20+66.02	-23.13	602.18	602.23
E	20+76.02	-23.13	602.36	602.38
CL. Brg. Pier 1	20+84.78	-23.13	602.50	602.50
F	20+94.78	-23.13	602.64	602.64
G	21+04.78	-23.13	602.76	602.77
H	21+14.78	-23.13	602.85	602.87
I	21+24.78	-23.13	602.92	602.93
J	21+34.78	-23.13	602.96	602.97
CL. Brg. Pier 2	21+44.84	-23.13	602.98	602.98
K	21+54.84	-23.13	602.98	603.00
L	21+64.84	-23.13	602.95	602.99
M	21+74.84	-23.13	602.91	602.96
N	21+84.84	-23.13	602.85	602.90
P	21+94.84	-23.13	602.77	602.80
CL. Brg. Pier 3	22+08.44	-23.13	602.65	602.65
Q	22+18.44	-23.13	602.54	602.55
R	22+28.44	-23.13	602.42	602.44
S	22+38.44	-23.13	602.29	602.31
T	22+48.44	-23.13	602.14	602.16
U	22+58.44	-23.13	601.98	601.98
CL. Brg. Pier 4	22+68.46	-23.13	601.80	601.80
V	22+78.46	-23.13	601.61	601.64
W	22+88.46	-23.13	601.41	601.47
X	22+98.46	-23.13	601.23	601.31
Y	23+08.46	-23.13	601.08	601.15
Z	23+18.46	-23.13	600.95	600.98
CL. Brg. E. Abut.	23+26.00	-23.13	600.86	600.86
BK. E. ABUT.	23+27.24	-23.13	600.85	600.85

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
BK. W. ABUT.	20+24.77	-15.42	601.37	601.37
CL. Brg. W. Abut.	20+26.02	-15.42	601.40	601.40
A	20+36.02	-15.42	601.63	601.68
B	20+46.02	-15.42	601.86	601.93
C	20+56.02	-15.42	602.08	602.16
D	20+66.02	-15.42	602.29	602.35
E	20+76.02	-15.42	602.48	602.50
CL. Brg. Pier 1	20+84.78	-15.42	602.62	602.62
F	20+94.78	-15.42	602.76	602.76
G	21+04.78	-15.42	602.87	602.89
H	21+14.78	-15.42	602.97	602.98
I	21+24.78	-15.42	603.03	603.05
J	21+34.78	-15.42	603.08	603.08
CL. Brg. Pier 2	21+44.84	-15.42	603.10	603.10
K	21+54.84	-15.42	603.09	603.11
L	21+64.84	-15.42	603.07	603.11
M	21+74.84	-15.42	603.02	603.08
N	21+84.84	-15.42	602.96	603.01
P	21+94.84	-15.42	602.89	602.92
CL. Brg. Pier 3	22+08.44	-15.42	602.77	602.77
Q	22+18.44	-15.42	602.66	602.66
R	22+28.44	-15.42	602.54	602.55
S	22+38.44	-15.42	602.41	602.43
T	22+48.44	-15.42	602.26	602.27
U	22+58.44	-15.42	602.09	602.10
CL. Brg. Pier 4	22+68.46	-15.42	601.92	601.92
V	22+78.46	-15.42	601.73	601.75
W	22+88.46	-15.42	601.53	601.59
X	22+98.46	-15.42	601.35	601.42
Y	23+08.46	-15.42	601.19	601.26
Z	23+18.46	-15.42	601.06	601.10
CL. Brg. E. Abut.	23+26.00	-15.42	600.98	600.98
BK. E. ABUT.	23+27.24	-15.42	600.97	600.97

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
BK. W. ABUT.	20+24.77	-7.71	601.49	601.49
CL. Brg. W. Abut.	20+26.02	-7.71	601.52	601.52
A	20+36.02	-7.71	601.74	601.79
B	20+46.02	-7.71	601.97	602.05
C	20+56.02	-7.71	602.20	602.28
D	20+66.02	-7.71	602.41	602.47
E	20+76.02	-7.71	602.59	602.61
CL. Brg. Pier 1	20+84.78	-7.71	602.73	602.73
F	20+94.78	-7.71	602.87	602.87
G	21+04.78	-7.71	602.99	603.00
H	21+14.78	-7.71	603.08	603.10
I	21+24.78	-7.71	603.15	603.16
J	21+34.78	-7.71	603.19	603.20
CL. Brg. Pier 2	21+44.84	-7.71	603.21	603.21
K	21+54.84	-7.71	603.21	603.23
L	21+64.84	-7.71	603.18	603.23
M	21+74.84	-7.71	603.14	603.19
N	21+84.84	-7.71	603.08	603.13
P	21+94.84	-7.71	603.00	603.03
CL. Brg. Pier 3	22+08.44	-7.71	602.88	602.88
Q	22+18.44	-7.71	602.78	602.78
R	22+28.44	-7.71	602.66	602.67
S	22+38.44	-7.71	602.52	602.54
T	22+48.44	-7.71	602.37	602.39
U	22+58.44	-7.71	602.21	602.21
CL. Brg. Pier 4	22+68.46	-7.71	602.03	602.03
V	22+78.46	-7.71	601.84	601.87
W	22+88.46	-7.71	601.64	601.70
X	22+98.46	-7.71	601.47	601.54
Y	23+08.46	-7.71	601.31	601.38
Z	23+18.46	-7.71	601.18	601.22
CL. Brg. E. Abut.	23+26.00	-7.71	601.09	601.09
BK. E. ABUT.	23+27.24	-7.71	601.08	601.08

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF DECK SLAB ELEVATIONS II
STRUCTURE NO. 016-1149
SHEET NO. S9 OF 50 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	73
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

BEAM 6, P.G. & ℄ 63RD STREET

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
BK. W. ABUT.	20+24.77	0.00	601.60	601.60
CL. Brg. W. Abut.	20+26.02	0.00	601.63	601.63
A	20+36.02	0.00	601.86	601.91
B	20+46.02	0.00	602.09	602.17
C	20+56.02	0.00	602.31	602.39
D	20+66.02	0.00	602.52	602.58
E	20+76.02	0.00	602.71	602.73
CL. Brg. Pier 1	20+84.78	0.00	602.85	602.85
F	20+94.78	0.00	602.99	602.99
G	21+04.78	0.00	603.11	603.12
H	21+14.78	0.00	603.20	603.22
I	21+24.78	0.00	603.27	603.28
J	21+34.78	0.00	603.31	603.31
CL. Brg. Pier 2	21+44.84	0.00	603.33	603.33
K	21+54.84	0.00	603.33	603.34
L	21+64.84	0.00	603.30	603.34
M	21+74.84	0.00	603.25	603.31
N	21+84.84	0.00	603.19	603.25
P	21+94.84	0.00	603.12	603.15
CL. Brg. Pier 3	22+08.44	0.00	603.00	603.00
Q	22+18.44	0.00	602.89	602.89
R	22+28.44	0.00	602.77	602.79
S	22+38.44	0.00	602.64	602.66
T	22+48.44	0.00	602.49	602.50
U	22+58.44	0.00	602.33	602.33
CL. Brg. Pier 4	22+68.46	0.00	602.15	602.15
V	22+78.46	0.00	601.96	601.98
W	22+88.46	0.00	601.76	601.82
X	22+98.46	0.00	601.58	601.66
Y	23+08.46	0.00	601.43	601.49
Z	23+18.46	0.00	601.29	601.33
CL. Brg. E. Abut.	23+26.00	0.00	601.21	601.21
BK. E. ABUT.	23+27.24	0.00	601.20	601.20

BEAM 7

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
BK. W. ABUT.	20+24.77	7.71	601.49	601.49
CL. Brg. W. Abut.	20+26.02	7.71	601.52	601.52
A	20+36.02	7.71	601.74	601.79
B	20+46.02	7.71	601.97	602.05
C	20+56.02	7.71	602.20	602.28
D	20+66.02	7.71	602.41	602.47
E	20+76.02	7.71	602.59	602.61
CL. Brg. Pier 1	20+84.78	7.71	602.73	602.73
F	20+94.78	7.71	602.87	602.87
G	21+04.78	7.71	602.99	603.00
H	21+14.78	7.71	603.08	603.10
I	21+24.78	7.71	603.15	603.16
J	21+34.78	7.71	603.19	603.20
CL. Brg. Pier 2	21+44.84	7.71	603.21	603.21
K	21+54.84	7.71	603.21	603.23
L	21+64.84	7.71	603.18	603.23
M	21+74.84	7.71	603.14	603.19
N	21+84.84	7.71	603.08	603.13
P	21+94.84	7.71	603.00	603.03
CL. Brg. Pier 3	22+08.44	7.71	602.88	602.88
Q	22+18.44	7.71	602.78	602.78
R	22+28.44	7.71	602.66	602.67
S	22+38.44	7.71	602.52	602.54
T	22+48.44	7.71	602.37	602.39
U	22+58.44	7.71	602.21	602.21
CL. Brg. Pier 4	22+68.46	7.71	602.03	602.03
V	22+78.46	7.71	601.84	601.87
W	22+88.46	7.71	601.64	601.70
X	22+98.46	7.71	601.47	601.54
Y	23+08.46	7.71	601.31	601.38
Z	23+18.46	7.71	601.18	601.22
CL. Brg. E. Abut.	23+26.00	7.71	601.09	601.09
BK. E. ABUT.	23+27.24	7.71	601.08	601.08

BEAM 8

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
BK. W. ABUT.	20+24.77	15.42	601.37	601.37
CL. Brg. W. Abut.	20+26.02	15.42	601.40	601.40
A	20+36.02	15.42	601.63	601.68
B	20+46.02	15.42	601.86	601.93
C	20+56.02	15.42	602.08	602.16
D	20+66.02	15.42	602.29	602.35
E	20+76.02	15.42	602.48	602.50
CL. Brg. Pier 1	20+84.78	15.42	602.62	602.62
F	20+94.78	15.42	602.76	602.76
G	21+04.78	15.42	602.87	602.89
H	21+14.78	15.42	602.97	602.98
I	21+24.78	15.42	603.03	603.05
J	21+34.78	15.42	603.08	603.08
CL. Brg. Pier 2	21+44.84	15.42	603.10	603.10
K	21+54.84	15.42	603.09	603.11
L	21+64.84	15.42	603.07	603.11
M	21+74.84	15.42	603.02	603.08
N	21+84.84	15.42	602.96	603.01
P	21+94.84	15.42	602.89	602.92
CL. Brg. Pier 3	22+08.44	15.42	602.77	602.77
Q	22+18.44	15.42	602.66	602.66
R	22+28.44	15.42	602.54	602.55
S	22+38.44	15.42	602.41	602.43
T	22+48.44	15.42	602.26	602.27
U	22+58.44	15.42	602.09	602.10
CL. Brg. Pier 4	22+68.46	15.42	601.92	601.92
V	22+78.46	15.42	601.73	601.75
W	22+88.46	15.42	601.53	601.59
X	22+98.46	15.42	601.35	601.42
Y	23+08.46	15.42	601.19	601.26
Z	23+18.46	15.42	601.06	601.10
CL. Brg. E. Abut.	23+26.00	15.42	600.98	600.98
BK. E. ABUT.	23+27.24	15.42	600.97	600.97

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF DECK SLAB ELEVATIONS III
STRUCTURE NO. 016-1149
SHEET NO. S10 OF 50 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	74
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

BEAM 9

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
BK. W. ABUT.	20+24.77	23.13	601.26	601.26
CL. Brg. W. Abut.	20+26.02	23.13	601.28	601.28
A	20+36.02	23.13	601.51	601.56
B	20+46.02	23.13	601.74	601.82
C	20+56.02	23.13	601.97	602.05
D	20+66.02	23.13	602.18	602.23
E	20+76.02	23.13	602.36	602.38
CL. Brg. Pier 1	20+84.78	23.13	602.50	602.50
F	20+94.78	23.13	602.64	602.64
G	21+04.78	23.13	602.76	602.77
H	21+14.78	23.13	602.85	602.87
I	21+24.78	23.13	602.92	602.93
J	21+34.78	23.13	602.96	602.97
CL. Brg. Pier 2	21+44.84	23.13	602.98	602.98
K	21+54.84	23.13	602.98	603.00
L	21+64.84	23.13	602.95	602.99
M	21+74.84	23.13	602.91	602.96
N	21+84.84	23.13	602.85	602.90
P	21+94.84	23.13	602.77	602.80
CL. Brg. Pier 3	22+08.44	23.13	602.65	602.65
Q	22+18.44	23.13	602.54	602.55
R	22+28.44	23.13	602.42	602.44
S	22+38.44	23.13	602.29	602.31
T	22+48.44	23.13	602.14	602.16
U	22+58.44	23.13	601.98	601.98
CL. Brg. Pier 4	22+68.46	23.13	601.80	601.80
V	22+78.46	23.13	601.61	601.64
W	22+88.46	23.13	601.41	601.47
X	22+98.46	23.13	601.23	601.31
Y	23+08.46	23.13	601.08	601.15
Z	23+18.46	23.13	600.95	600.98
CL. Brg. E. Abut.	23+26.00	23.13	600.86	600.86
BK. E. ABUT.	23+27.24	23.13	600.85	600.85

BEAM 10

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
BK. W. ABUT.	20+24.77	30.83	601.14	601.14
CL. Brg. W. Abut.	20+26.02	30.83	601.17	601.17
A	20+36.02	30.83	601.40	601.44
B	20+46.02	30.83	601.62	601.70
C	20+56.02	30.83	601.85	601.93
D	20+66.02	30.83	602.06	602.12
E	20+76.02	30.83	602.24	602.27
CL. Brg. Pier 1	20+84.78	30.83	602.39	602.39
F	20+94.78	30.83	602.53	602.53
G	21+04.78	30.83	602.64	602.65
H	21+14.78	30.83	602.73	602.75
I	21+24.78	30.83	602.80	602.82
J	21+34.78	30.83	602.85	602.85
CL. Brg. Pier 2	21+44.84	30.83	602.87	602.87
K	21+54.84	30.83	602.86	602.88
L	21+64.84	30.83	602.83	602.88
M	21+74.84	30.83	602.79	602.85
N	21+84.84	30.83	602.73	602.78
P	21+94.84	30.83	602.66	602.69
CL. Brg. Pier 3	22+08.44	30.83	602.53	602.53
Q	22+18.44	30.83	602.43	602.43
R	22+28.44	30.83	602.31	602.32
S	22+38.44	30.83	602.17	602.19
T	22+48.44	30.83	602.03	602.04
U	22+58.44	30.83	601.86	601.87
CL. Brg. Pier 4	22+68.46	30.83	601.69	601.69
V	22+78.46	30.83	601.50	601.52
W	22+88.46	30.83	601.30	601.35
X	22+98.46	30.83	601.12	601.19
Y	23+08.46	30.83	600.96	601.03
Z	23+18.46	30.83	600.83	600.87
CL. Brg. E. Abut.	23+26.00	30.83	600.75	600.75
BK. E. ABUT.	23+27.24	30.83	600.74	600.74

BEAM 11

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for DL Deflection
BK. W. ABUT.	20+24.77	38.54	601.14	601.14
CL. Brg. W. Abut.	20+26.02	38.54	601.17	601.17
A	20+36.02	38.54	601.40	601.44
B	20+46.02	38.54	601.62	601.70
C	20+56.02	38.54	601.85	601.93
D	20+66.02	38.54	602.06	602.12
E	20+76.02	38.54	602.24	602.27
CL. Brg. Pier 1	20+84.78	38.54	602.39	602.39
F	20+94.78	38.54	602.53	602.53
G	21+04.78	38.54	602.64	602.65
H	21+14.78	38.54	602.73	602.75
I	21+24.78	38.54	602.80	602.82
J	21+34.78	38.54	602.85	602.85
CL. Brg. Pier 2	21+44.84	38.54	602.87	602.87
K	21+54.84	38.54	602.86	602.88
L	21+64.84	38.54	602.83	602.88
M	21+74.84	38.54	602.79	602.85
N	21+84.84	38.54	602.73	602.78
P	21+94.84	38.54	602.66	602.69
CL. Brg. Pier 3	22+08.44	38.54	602.53	602.53
Q	22+18.44	38.54	602.43	602.43
R	22+28.44	38.54	602.31	602.32
S	22+38.44	38.54	602.17	602.19
T	22+48.44	38.54	602.03	602.04
U	22+58.44	38.54	601.86	601.87
CL. Brg. Pier 4	22+68.46	38.54	601.69	601.69
V	22+78.46	38.54	601.50	601.52
W	22+88.46	38.54	601.30	601.35
X	22+98.46	38.54	601.12	601.19
Y	23+08.46	38.54	600.96	601.03
Z	23+18.46	38.54	600.83	600.87
CL. Brg. E. Abut.	23+26.00	38.54	600.75	600.75
BK. E. ABUT.	23+27.24	38.54	600.74	600.74

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DEPARTMENT OF TRANSPORTATION

TOP OF DECK SLAB ELEVATIONS IV
STRUCTURE NO. 016-1149
SHEET NO. S11 OF 50 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	75
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

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STRUCTURE NO. 016-1149

SHEET NO. S12 OF 50 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	76
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

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NORTH EDGE OF APPROACH

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Slab	19+93.60	-40.50	600.57
A1	20+03.60	-40.50	600.78
A2	20+13.60	-40.50	601.00
E. End W. Appr. Slab	20+23.60	-40.50	601.23

NORTH GUTTER LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Slab	19+93.60	-30.50	600.46
A1	20+03.60	-30.50	600.67
A2	20+13.60	-30.50	600.89
E. End W. Appr. Slab	20+23.60	-30.50	601.12

STAGE CONST. LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Slab	19+93.60	-25.63	600.53
A1	20+03.60	-25.63	600.74
A2	20+13.60	-25.63	600.96
E. End W. Appr. Slab	20+23.60	-25.63	601.19

℄ 63RD STREET & P.G.

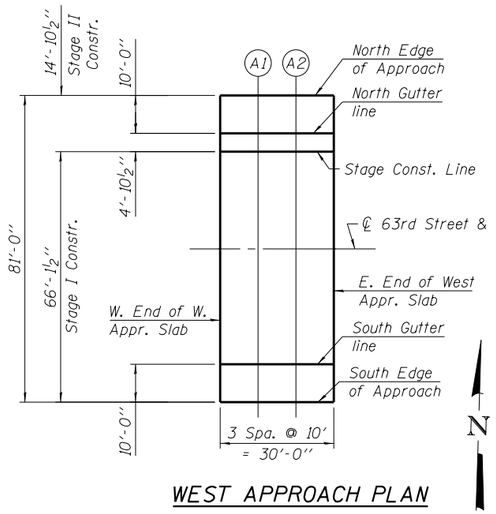
Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Slab	19+93.60	0.00	600.91
A1	20+03.60	0.00	601.12
A2	20+13.60	0.00	601.35
E. End W. Appr. Slab	20+23.60	0.00	601.58

SOUTH GUTTER LINE

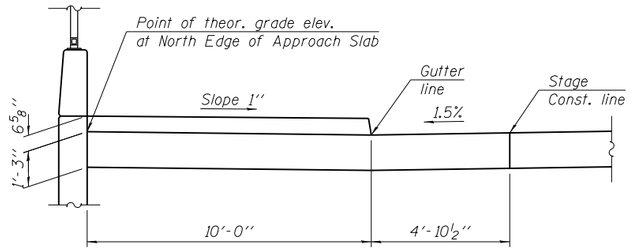
Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Slab	19+93.60	30.50	600.46
A1	20+03.60	30.50	600.67
A2	20+13.60	30.50	600.89
E. End W. Appr. Slab	20+23.60	30.50	601.12

SOUTH EDGE OF APPROACH

Location	Station	Offset	Theoretical Grade Elevations
W. End W. Appr. Slab	19+93.60	40.50	600.71
A1	20+03.60	40.50	600.92
A2	20+13.60	40.50	601.14
E. End W. Appr. Slab	20+23.60	40.50	601.37

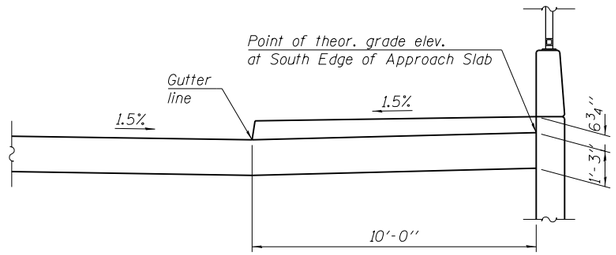


WEST APPROACH PLAN



SECTION THRU NORTH SIDEWALK

(Looking East)



SECTION THRU SOUTH SIDEWALK

(Looking East)

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TOP OF WEST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 016-1149
SHEET NO. S13 OF 50 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	77
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

NORTH EDGE OF APPROACH

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appr. Slab	23+28.41	-40.50	600.84
A3	23+38.41	-40.50	600.75
A4	23+48.41	-40.50	600.69
E. End E. Appr. Slab	23+58.41	-40.50	600.66

NORTH GUTTER LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appr. Slab	23+28.41	-30.50	600.73
A3	23+38.41	-30.50	600.64
A4	23+48.41	-30.50	600.58
E. End E. Appr. Slab	23+58.41	-30.50	600.55

STAGE CONST. LINE

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appr. Slab	23+28.41	-25.63	600.80
A3	23+38.41	-25.63	600.72
A4	23+48.41	-25.63	600.66
E. End E. Appr. Slab	23+58.41	-25.63	600.62

℄ 63RD STREET & P.G.

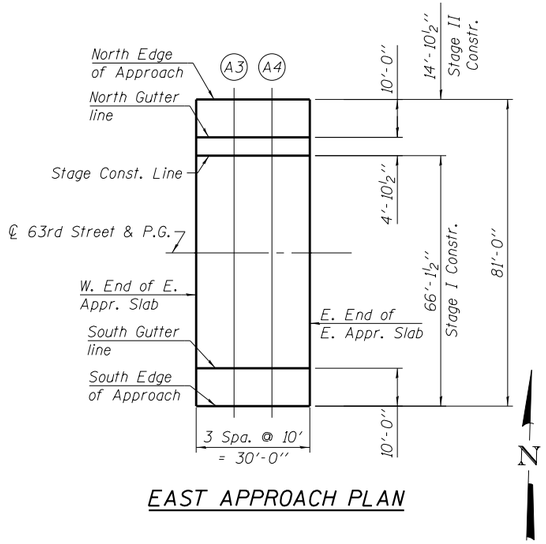
Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appr. Slab	23+28.41	0.00	601.19
A3	23+38.41	0.00	601.10
A4	23+48.41	0.00	601.04
E. End E. Appr. Slab	23+58.41	0.00	601.00

SOUTH GUTTER LINE

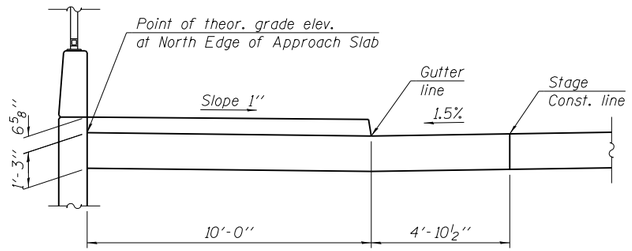
Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appr. Slab	23+28.41	30.50	600.73
A3	23+38.41	30.50	600.64
A4	23+48.41	30.50	600.58
E. End E. Appr. Slab	23+58.41	30.50	600.55

SOUTH EDGE OF APPROACH

Location	Station	Offset	Theoretical Grade Elevations
W. End E. Appr. Slab	23+28.41	40.50	600.98
A3	23+38.41	40.50	600.89
A4	23+48.41	40.50	600.83
E. End E. Appr. Slab	23+58.41	40.50	600.80

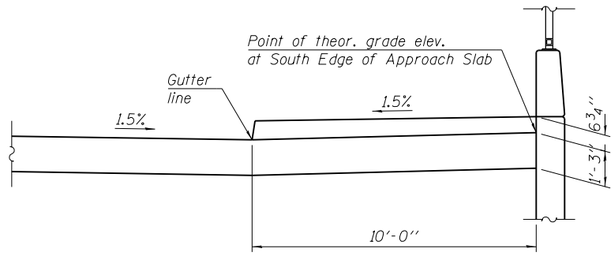


EAST APPROACH PLAN



SECTION THRU NORTH SIDEWALK

(Looking East)



SECTION THRU SOUTH SIDEWALK

(Looking East)

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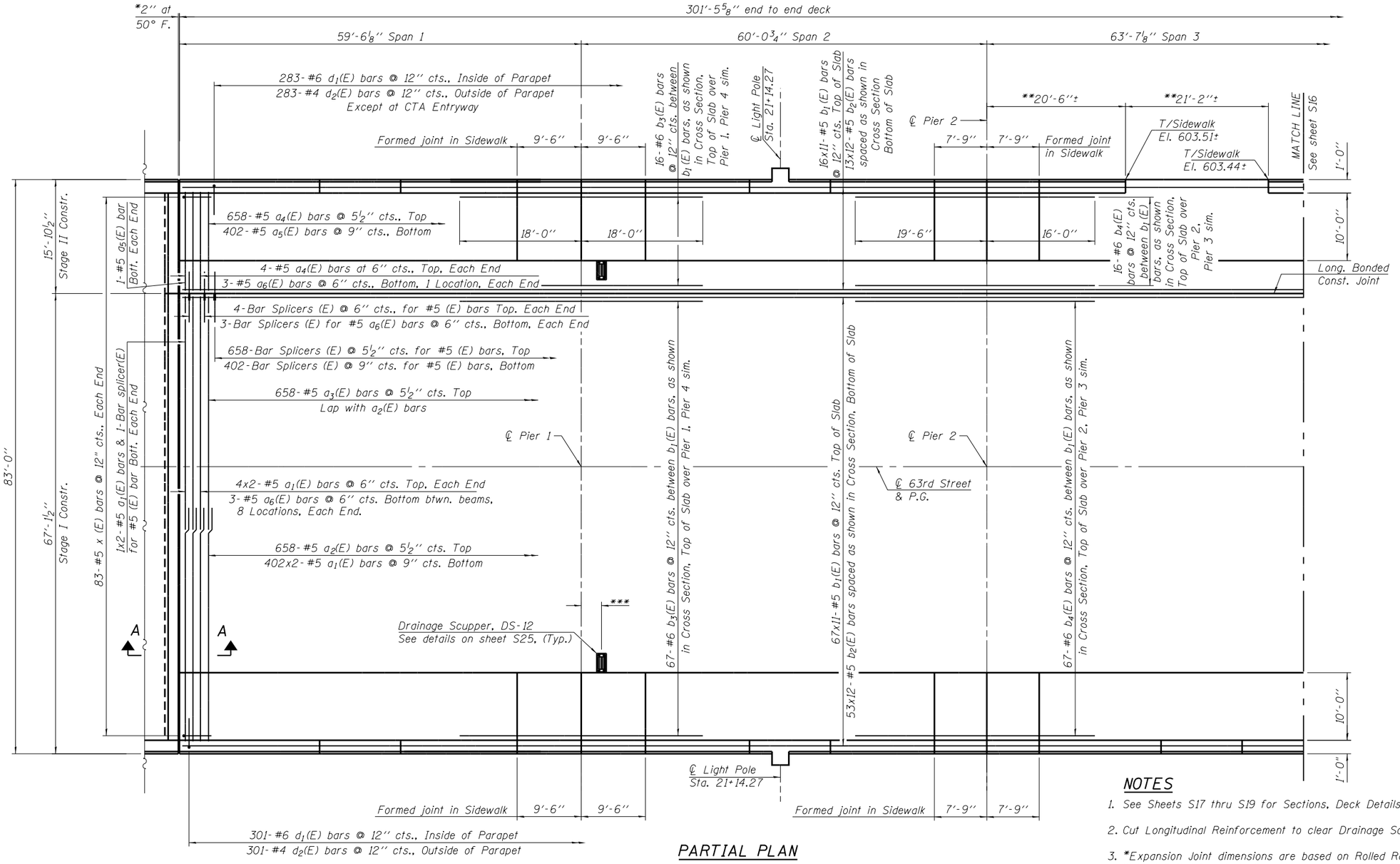
TOP OF EAST APPROACH SLAB ELEVATIONS
STRUCTURE NO. 016-1149

SHEET NO. S14 OF 50 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	78
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			



PARTIAL PLAN

N

MINIMUM BAR LAP

#5 bar = 3'-3''

NOTES

1. See Sheets S17 thru S19 for Sections, Deck Details, Parapet Reinforcement and Bill of Material.
2. Cut Longitudinal Reinforcement to clear Drainage Scuppers.
3. *Expansion Joint dimensions are based on Rolled Rail Joint. If the Contractor elects to use the Welded Rail Joint, deck dimensions may require adjustments to satisfy the details on Sheet S24.
4. **Parapet cut-out to match CTA Entryway. Back of sidewalk elevations to match existing edge of CTA entryway platform elevations. The Contractor shall remove and reinstall the expansion joint and cover plate at the CTA Station (including any embedded frames and seals if applicable). If the existing expansion joint material cannot be removed without being damaged, the expansion joint shall be replaced with a similar expansion joint approved by the Engineer. This cost shall be included in Concrete Superstructure.
5. ***Scupper locations shall be determined by the Drainage System pipe supports at the piers. See Sheet S-48.
6. Bar indicated thus 44x11-#5 etc. indicates 44 lines of bars with 11 lengths per line.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK PLAN I
STRUCTURE NO. 016-1149
SHEET NO. S15 OF 50 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	79
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

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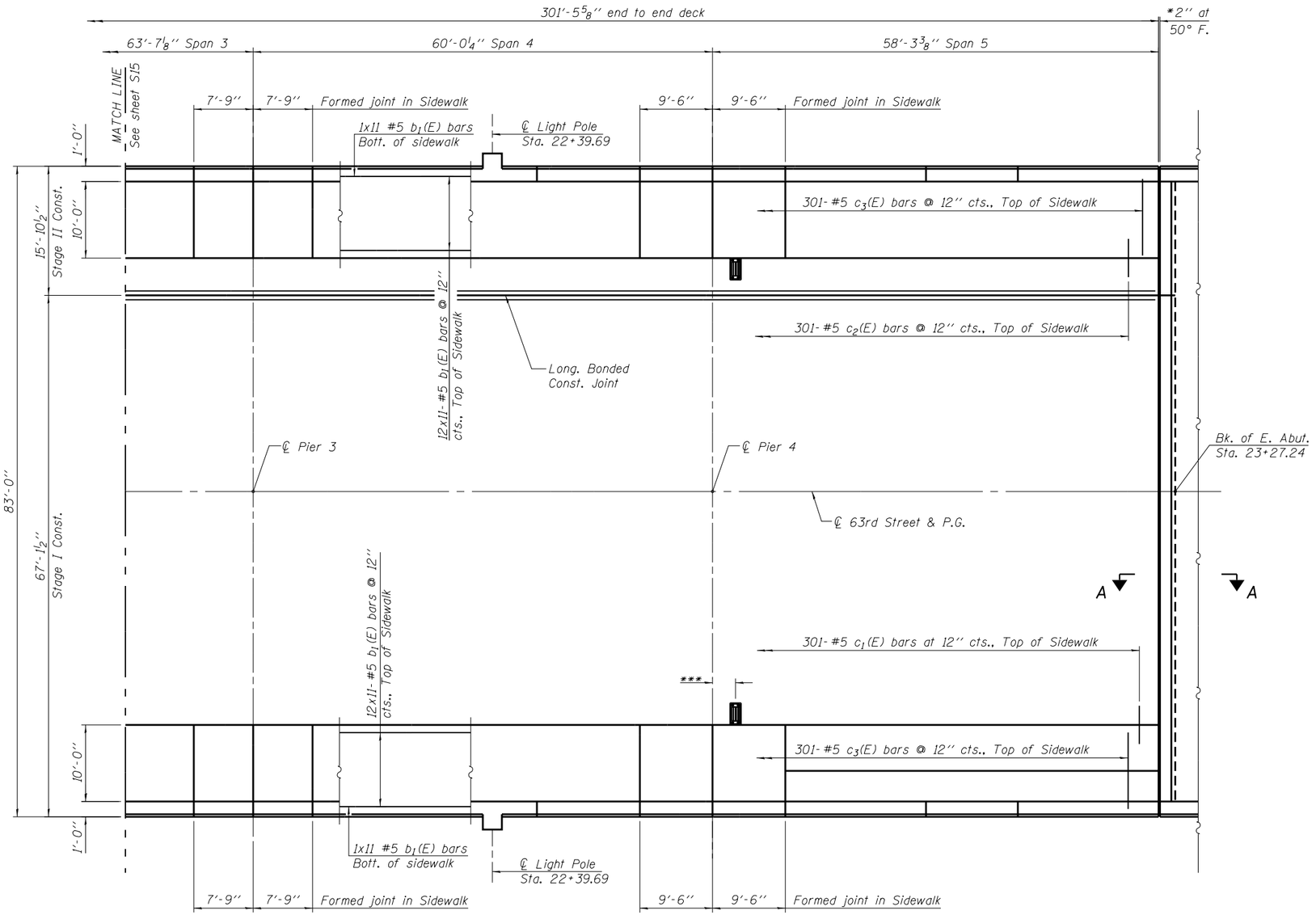
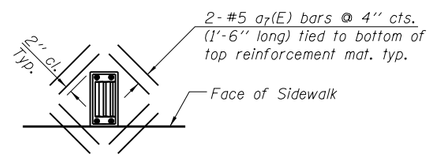


PARTIAL PLAN



DETAIL AT SCUPPER

N

MINIMUM BAR LAP

#5 bar = 3'-3"

NOTES

1. See Sheets S17 thru S19 for Sections, Deck Details, Parapet Reinforcement and Bill of Material.
2. Cut Longitudinal Reinforcement to clear Drainage Scuppers.
3. *Expansion Joint dimensions are based on Rolled Rail Joint. If the Contractor elects to use the Welded Rail Joint, deck dimensions may require adjustments to satisfy the details on Sheet S24.
4. ***Scupper locations shall be determined by the Drainage System pipe supports at the piers. See Sheet S-48.
5. Bars indicated thus 12x11-#5 etc. indicates 12 lines of bars with 11 lengths per line.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK PLAN II
STRUCTURE NO. 016-1149
SHEET NO. S16 OF 50 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	80
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

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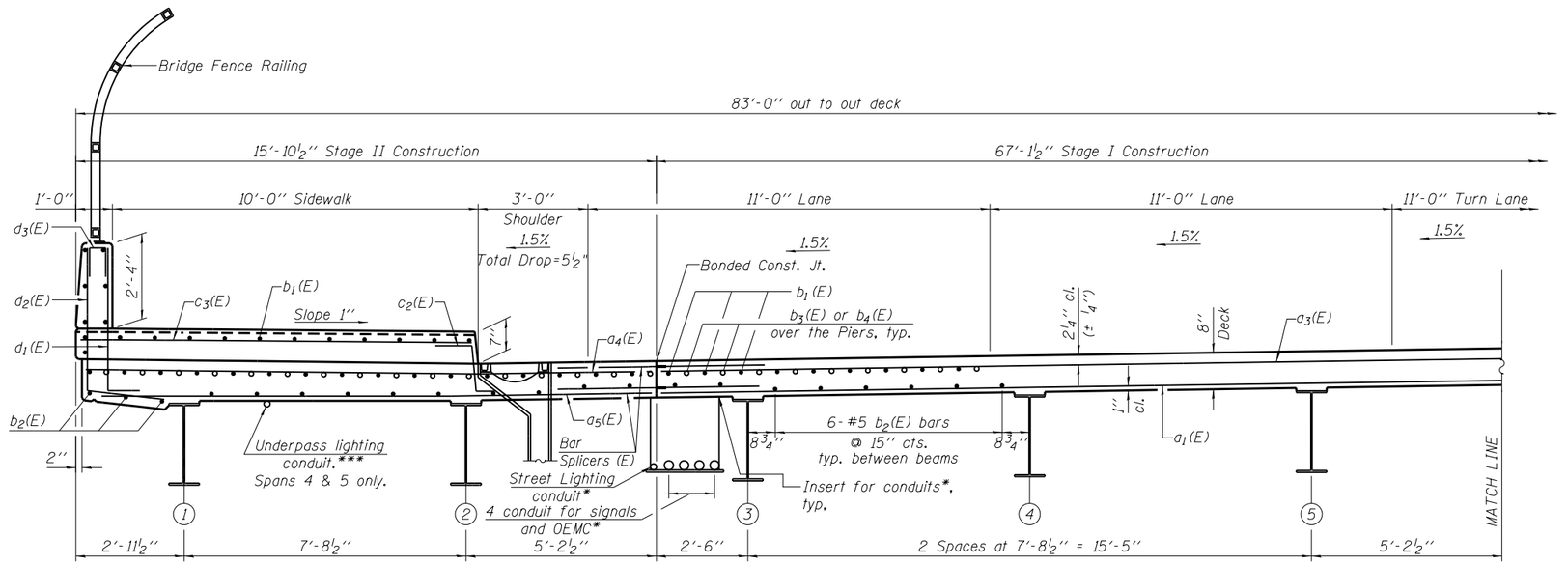


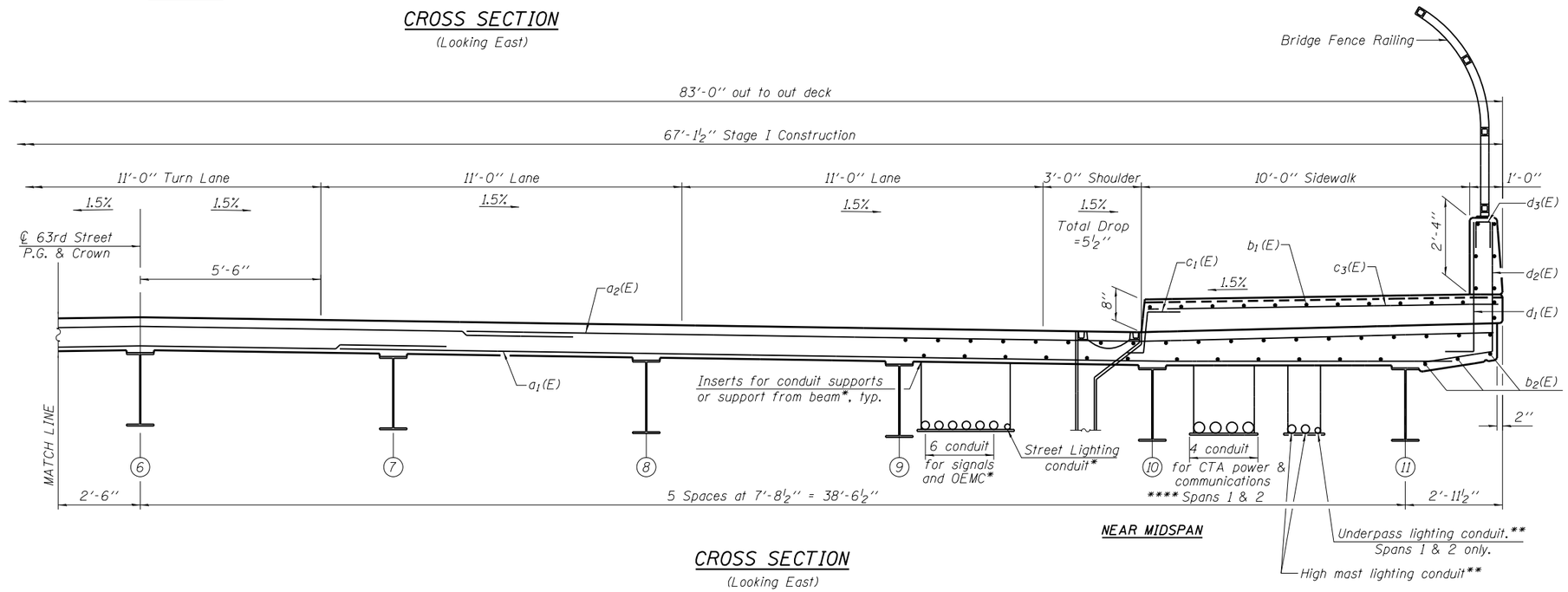
NEAR PIER

CROSS SECTION

(Looking East)

NOTES

1. See Sheet S19 for Bill of Material.
2. Cut longitudinal reinforcement to clear drainage scuppers.
3. For conduit noted thus *, cost of inserts and hangers are included with "Conduit Attached to Structure, 3" Dia., Galvanized Steel". Coordinate with the Electrical Contractor.
4. For conduit noted thus **, cost of inserts and hangers are included with "Conduit Attached to Structure, 3" Dia., PVC Coated Galvanized Steel". Coordinate with the Electrical Contractor.
5. For conduit noted thus ***, cost of inserts and hangers or clamps are included with "Conduit Attached to Structure, 1" Dia., PVC Coated Galvanized Steel". Coordinate with the Electrical Contractor.
6. For conduit noted thus ****, cost of inserts and hangers are included with "Conduit Attached to Structure, 4" Dia., Galvanized Steel". Coordinate temporary relocation of existing conduit lines with CTA and AT&T before any demolition or installation is to proceed. Conduit runs from the existing pull box to remain at the south end of the West Abutment to the south end of Pier 2. At the East face of Pier 2, the proposed conduit will attach to the existing conduit at ground level.



NEAR MIDSPAN

CROSS SECTION

(Looking East)

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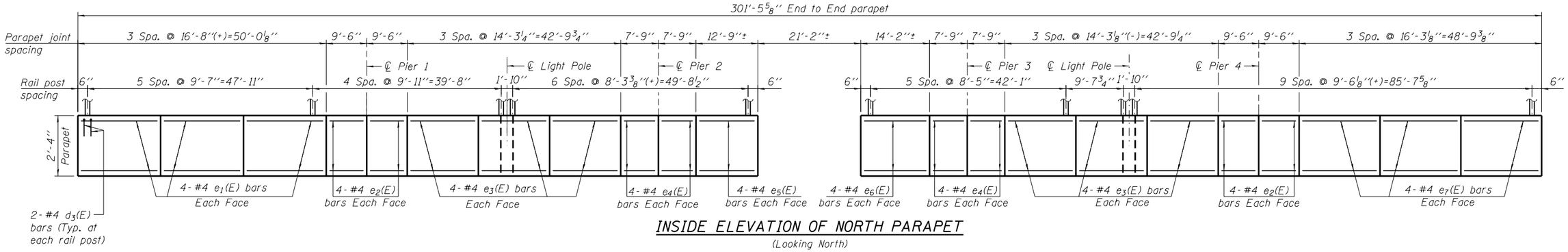
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

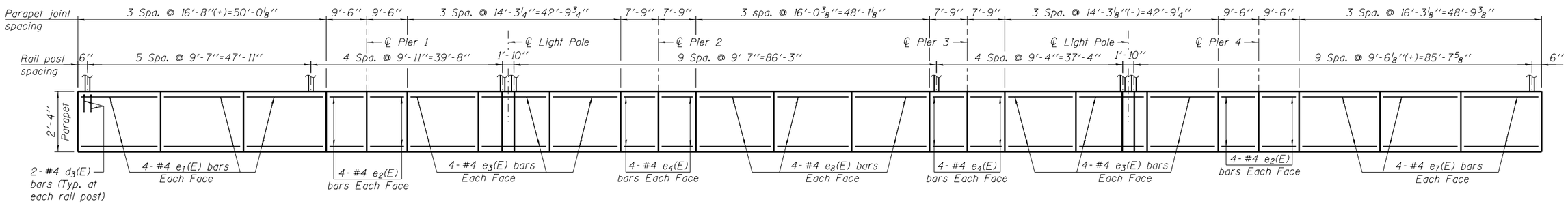
DECK SECTIONS
STRUCTURE NO. 016-1149
SHEET NO. S17 OF 50 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	81
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			



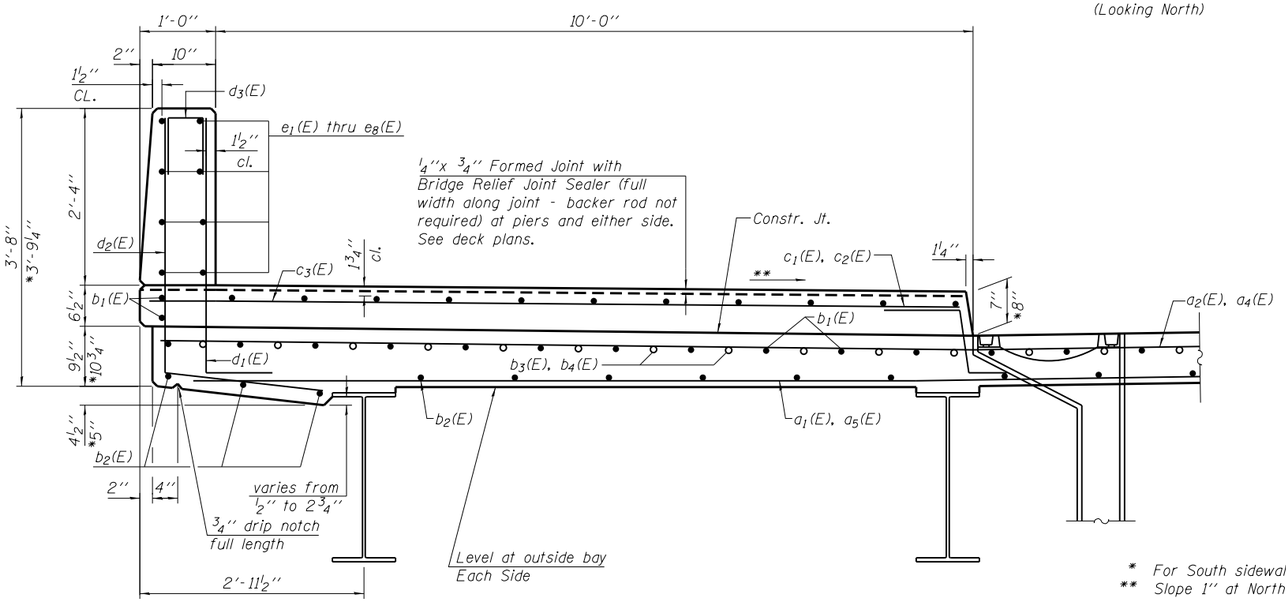
INSIDE ELEVATION OF NORTH PARAPET

(Looking North)



OUTSIDE ELEVATION OF SOUTH PARAPET

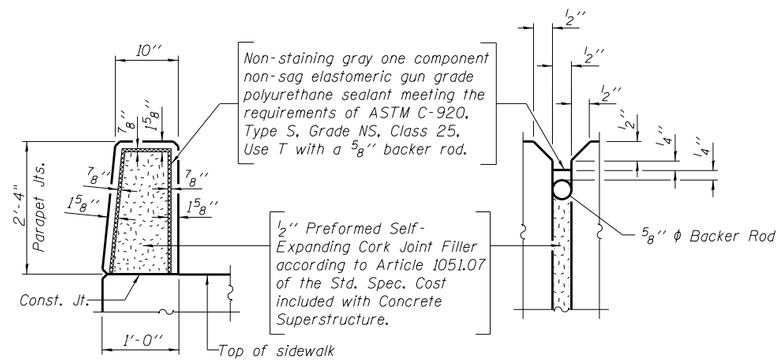
(Looking North)



* For South sidewalk
** Slope 1" at North sidewalk, 1.5% at South sidewalk

SECTION THRU SIDEWALK AND PARAPET

(Looking East, North sidewalk shown, South sidewalk opp. hand)



PARAPET JOINT DETAILS

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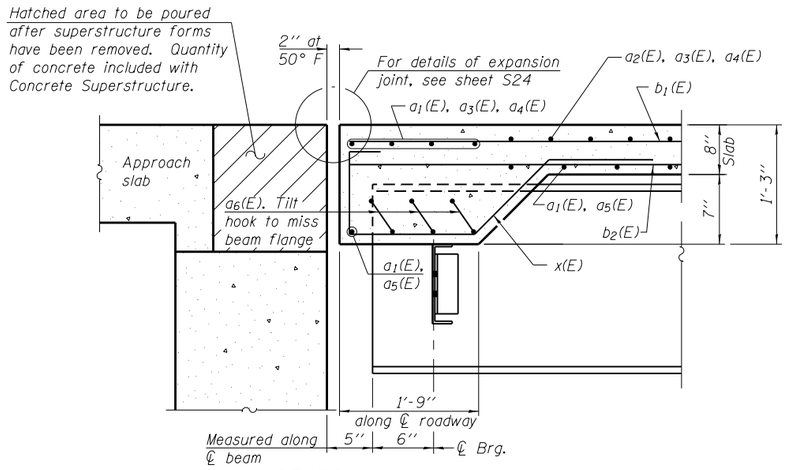
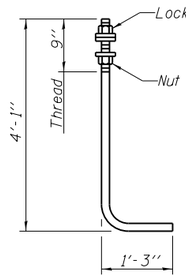
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK DETAILS I
STRUCTURE NO. 016-1149
SHEET NO. S18 OF 50 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	82
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

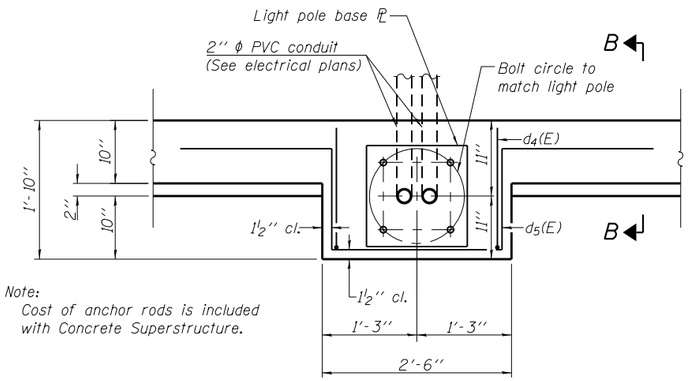


SECTION A-A



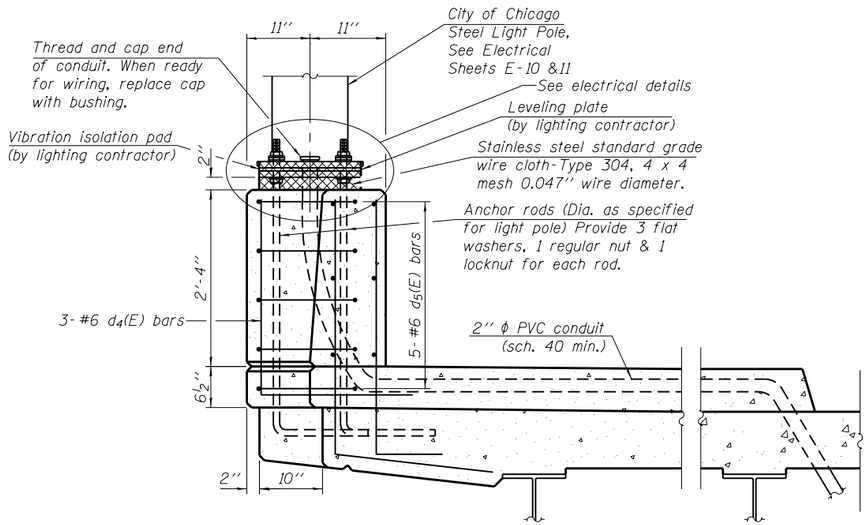
ANCHOR ROD

Diameter as specified for light poles. (ASTM F 1554 Grade 105)



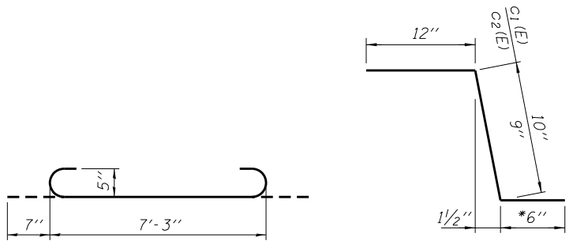
Note: Cost of anchor rods is included with Concrete Superstructure.

PLAN-LIGHT POLE BASE



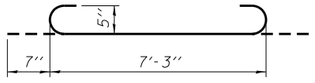
SECTION B-B

(Typical, 4 Locations)

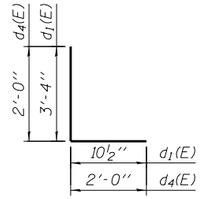


BARS $c_1(E)$ & $c_2(E)$

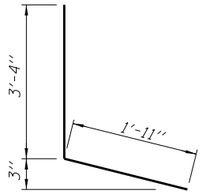
*In lieu of bottom leg, the deck may be drilled and the $c_1(E)$ and $c_2(E)$ bars may be set according to Article 509.06 of the Standard Specifications. Drilled holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of hole shall not exceed 6". Contractor shall take all necessary precautions to prevent drilled hole interference with deck reinforcement bars. Locate longitudinal bars to miss drilled locations. Locate drilled holes to miss tranverse bars in deck.



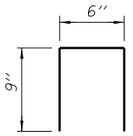
BAR $a_6(E)$



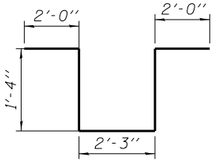
BARS $d_1(E)$ & $d_4(E)$



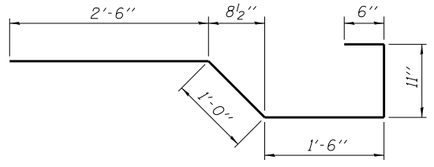
BAR $d_2(E)$



BAR $d_3(E)$



BAR $d_5(E)$



BAR x(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
$a_1(E)$	824	#5	34'-10"	
$a_2(E)$	658	#5	31'-3"	
$a_3(E)$	658	#5	38'-8"	
$a_4(E)$	666	#5	15'-4"	
$a_5(E)$	404	#5	15'-0"	
$a_6(E)$	54	#5	8'-5"	
$a_7(E)$	32	#5	1'-6"	
$b_1(E)$	1199	#5	30'-6"	
$b_2(E)$	792	#5	28'-4"	
$b_3(E)$	166	#6	36'-0"	
$b_4(E)$	166	#6	35'-6"	
$c_1(E)$	301	#5	2'-4"	
$c_2(E)$	301	#5	2'-3"	
$c_3(E)$	602	#5	10'-6"	
$d_1(E)$	584	#6	4'-3"	
$d_2(E)$	584	#4	5'-3"	
$d_3(E)$	140	#4	2'-0"	
$d_4(E)$	12	#6	4'-0"	
$d_5(E)$	20	#6	8'-11"	
$e_1(E)$	48	#4	16'-4"	
$e_2(E)$	64	#4	9'-2"	
$e_3(E)$	96	#4	13'-11"	
$e_4(E)$	64	#4	7'-5"	
$e_5(E)$	8	#4	12'-5"	
$e_6(E)$	8	#4	13'-10"	
$e_7(E)$	48	#4	15'-11"	
$e_8(E)$	24	#4	15'-8"	
x (E)	166	#5	6'-5"	
Reinforcement Bars, Epoxy Coated		Pound	193,270	
Concrete Superstructure		Cu. Yds.	865.3	

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DEPARTMENT OF TRANSPORTATION

DECK DETAILS II
STRUCTURE NO. 016-1149
SHEET NO. S19 OF 50 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	83
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

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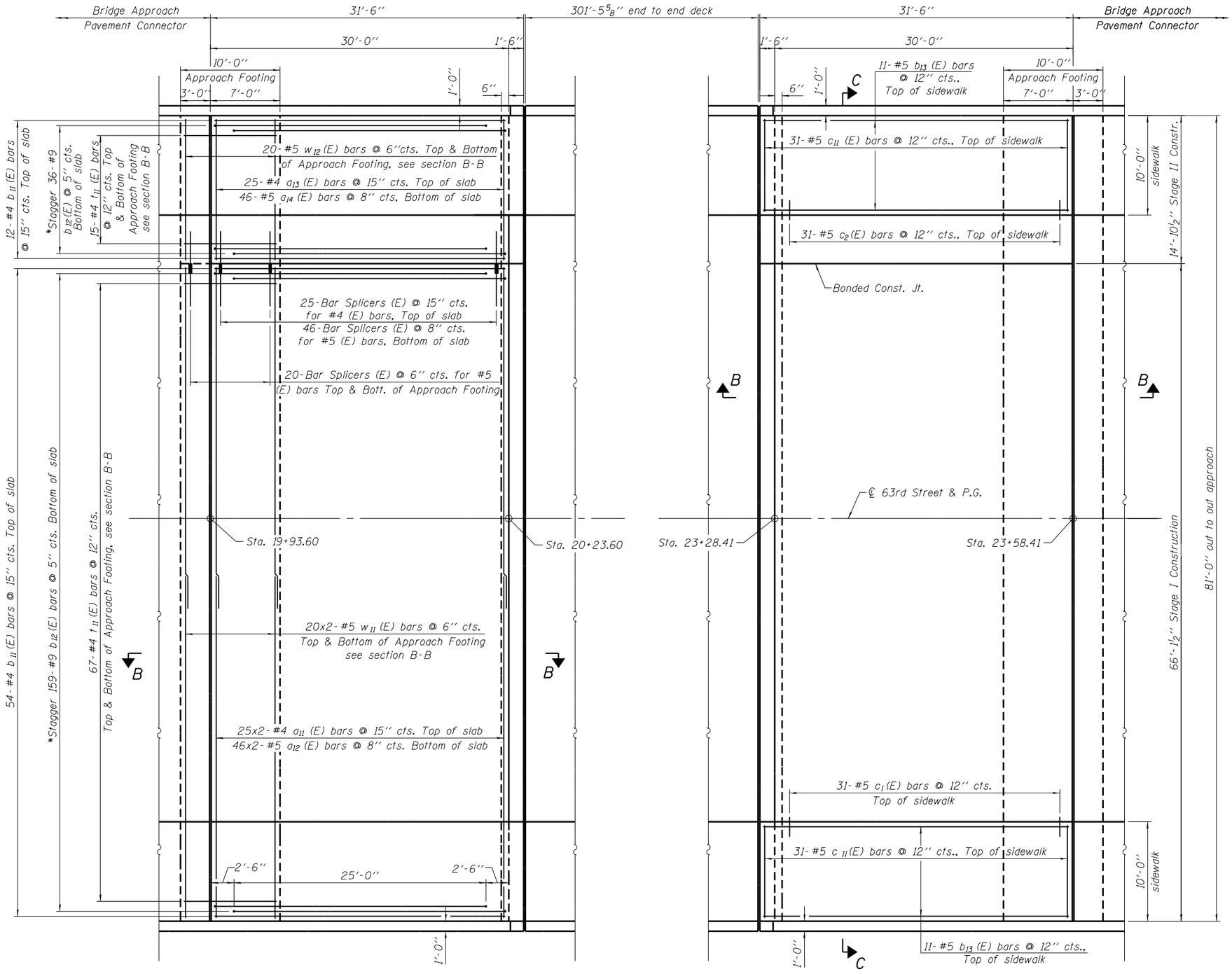

WEST APPROACH SLAB

EAST APPROACH SLAB

* Tilt #9 b_{12} (E) bars as required to maintain clearance.

MINIMUM BAR LAP

#4 bar = 2'-11"
#5 bar = 3'-3"

NOTES

1. See Sheet S21 for Sections, Details and Bill of Material.
2. See Sheet S3 and S4 for Construction Staging.

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BRIDGE APPROACH SLAB
STRUCTURE NO. 016-1149
SHEET NO. S20 OF 50 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	84
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

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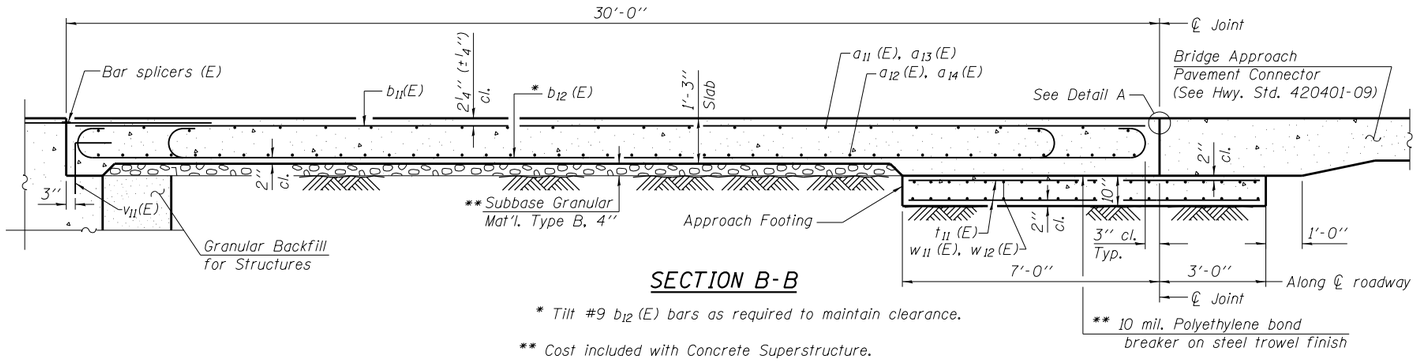
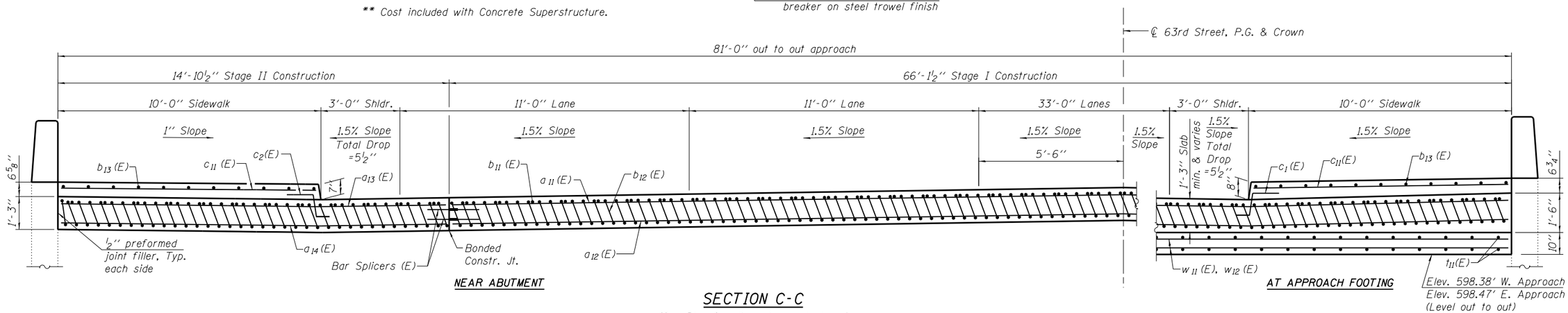


SECTION B-B

* Tilt #9 b_{12} (E) bars as required to maintain clearance.

** Cost included with Concrete Superstructure.



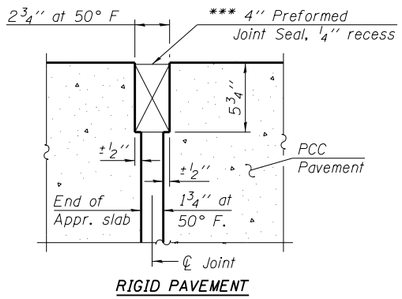
NEAR ABUTMENT

AT APPROACH FOOTING

SECTION C-C

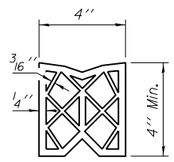
(See Plan for dimensions not shown)

*** Cost included with Concrete Superstructure.



RIGID PAVEMENT

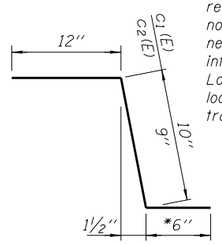
DETAIL A



PREFORMED JOINT SEAL

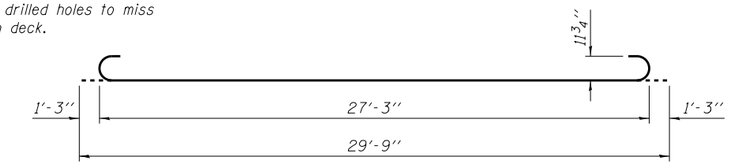
NOTES

1. Approach slab and sidewalk concrete shall be paid for as Concrete Superstructure.
2. Approach footing concrete shall be paid for as Concrete Structures.
3. Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
4. The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
5. For bar splicer details, see sheet S49.
6. Cost of excavation for approach footing included with Concrete Structures.
7. For Granular Backfill for Structures and drainage treatment details, see sheet S34.



BARS c_1(E) & c_2(E)

*In lieu of bottom leg, the deck may be drilled and the c_1(E) and c_2(E) bars may be set according to Article 509.06 of the Standard Specifications. Drilled holes shall be roughened or scored per manufacturer's recommendations. Maximum depth of hole shall not exceed 6". Contractor shall take all necessary precautions to prevent drilled hole interference with deck reinforcement bars. Locate longitudinal bars to miss drilled locations. Locate drilled holes to miss transverse bars in deck.



BAR b_{12} (E)

TWO APPROACHES BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a_{11} (E)	100	#4	34'-5"	
a_{12} (E)	184	#5	34'-7"	
a_{13} (E)	50	#4	14'-6"	
a_{14} (E)	92	#5	14'-6"	
b_{11} (E)	132	#4	29'-8"	
b_{12} (E)	390	#9	29'-9"	
b_{13} (E)	44	#5	31'-2"	
c_1 (E)	62	#5	2'-4"	
c_2 (E)	62	#5	2'-3"	
c_{11} (E)	124	#5	9'-6"	
t_{11} (E)	328	#4	9'-8"	
w_{11} (E)	160	#5	34'-7"	
w_{12} (E)	80	#5	14'-6"	
Concrete Structures			Cu. Yd.	50.0
Concrete Superstructure			Cu. Yd.	263.5
Reinforcement Bars, Epoxy Coated			Pound	64,930

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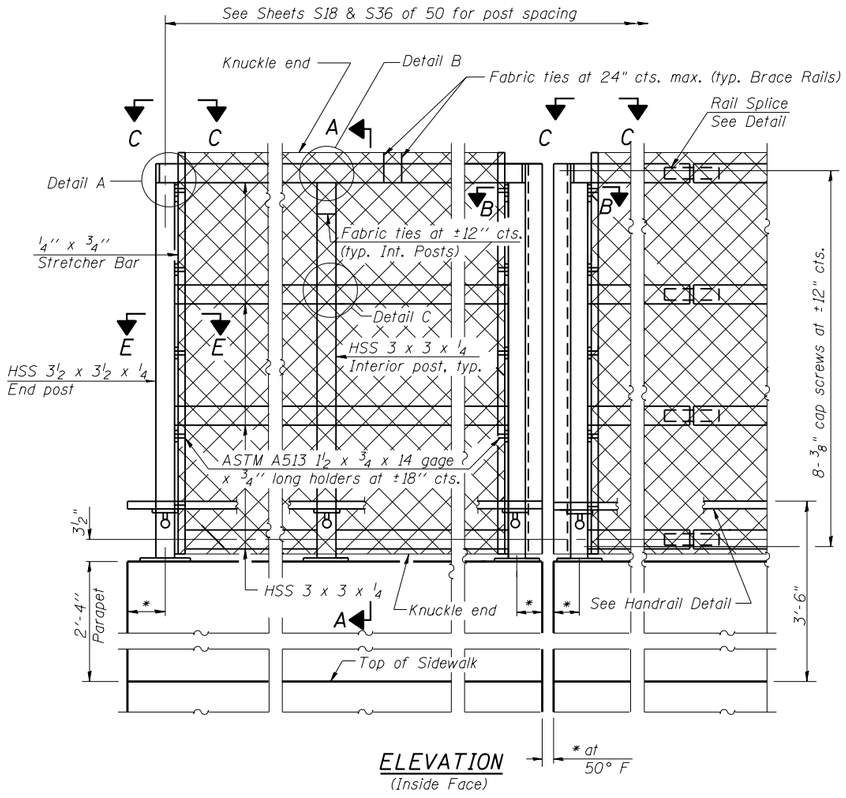
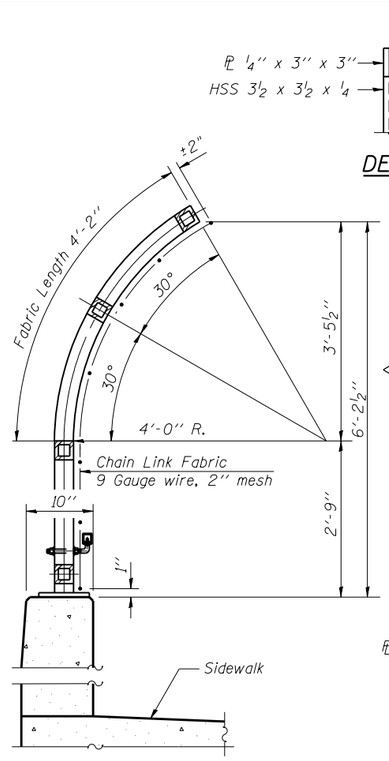
BRIDGE APPROACH SLAB DETAILS
STRUCTURE NO. 016-1149
SHEET NO. S21 OF 50 SHEETS

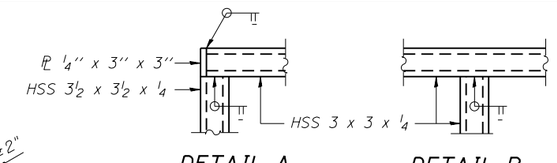
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	85
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			



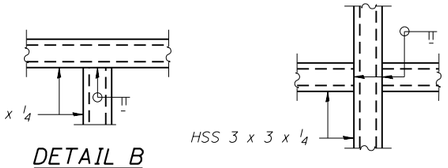
ELEVATION
(Inside Face)



SECTION A-A



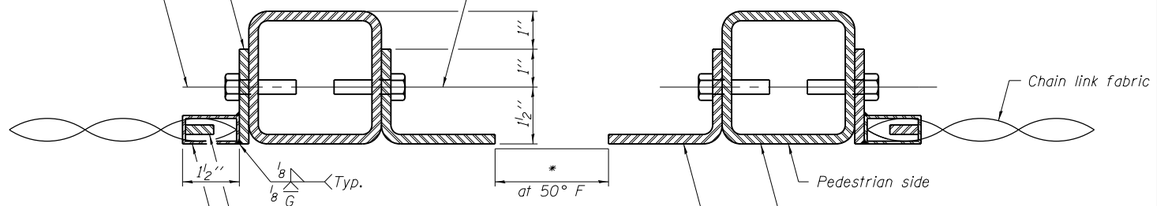
DETAIL A



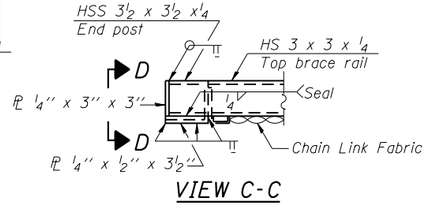
DETAIL B

DETAIL C

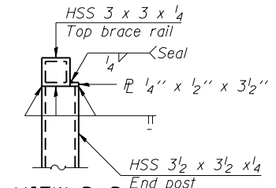
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.



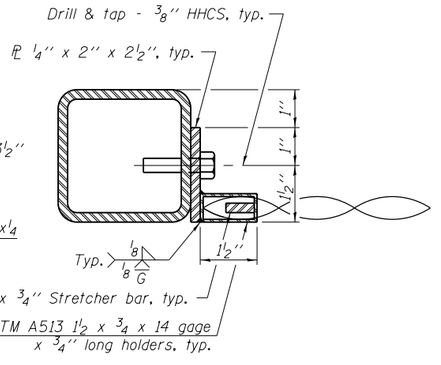
SECTION B-B
(At Expansion Joint)

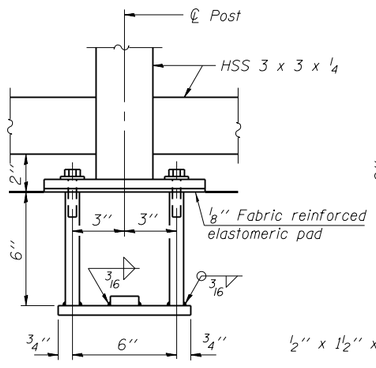


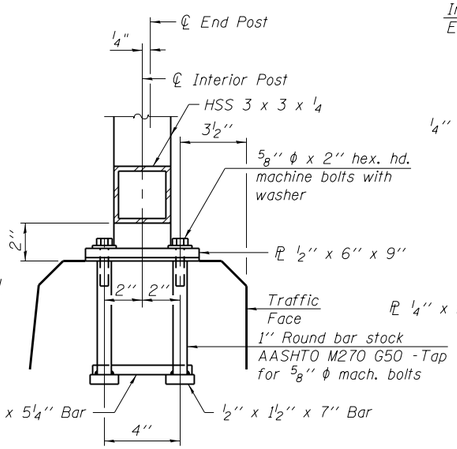
VIEW C-C



VIEW D-D

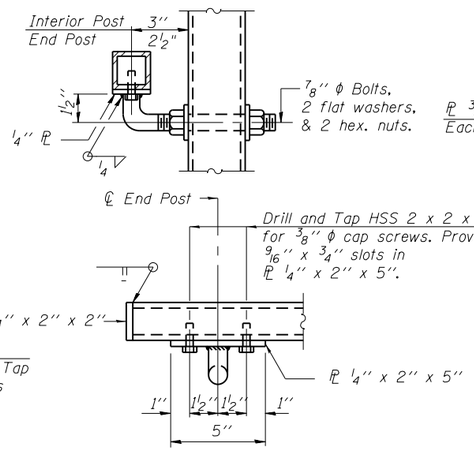




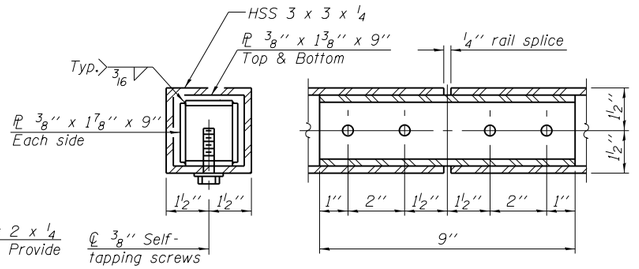


ANCHOR BOLT DETAILS

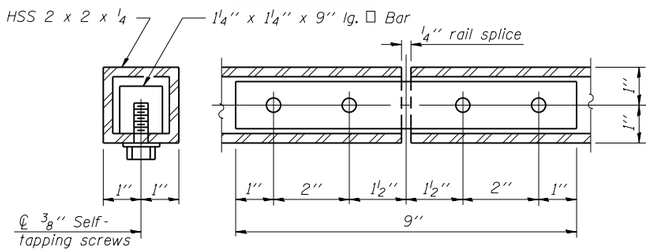
In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting 5/8" ϕ anchor rods according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.



HANDRAIL DETAIL

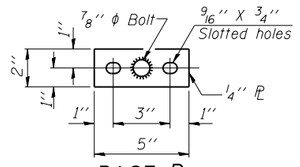


RAIL SPLICE

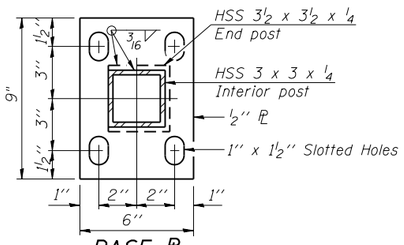


HANDRAIL SPLICE

SECTION E-E



BASE PL
(Handrail)



BASE PL

BILL OF MATERIAL

Item	Unit	Quantity
Bridge Fence Railing	Foot	755

*Variable - See Plans
(10'-0" Maximum Post Spacing)

R-32

7-1-10

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PLOT SCALE =	DRAWN - E.E.J.	REVISED -	
PLOT DATE =	DATE - 3/31/2014	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE FENCE RAILING, PARAPET MOUNTED
STRUCTURE NO. 016-1149
SHEET NO. S22 OF 50 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	86
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

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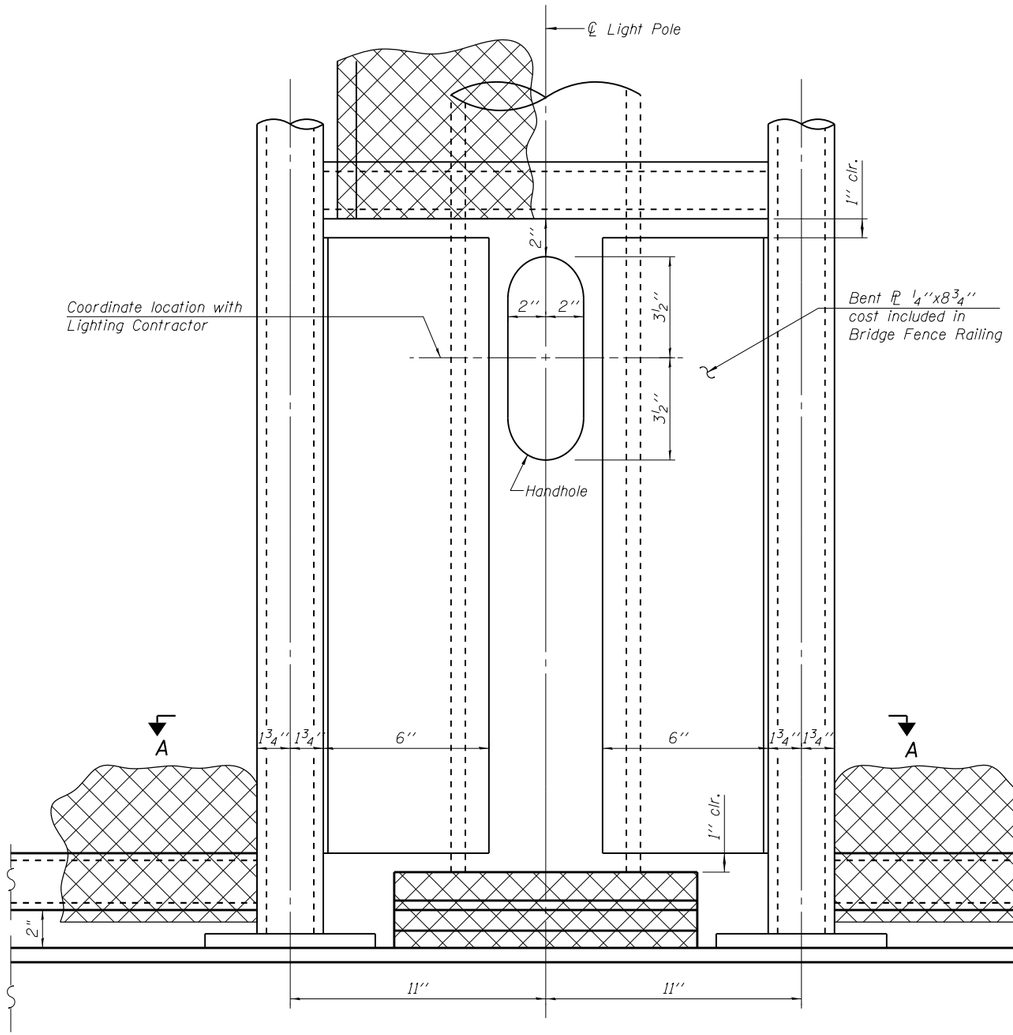
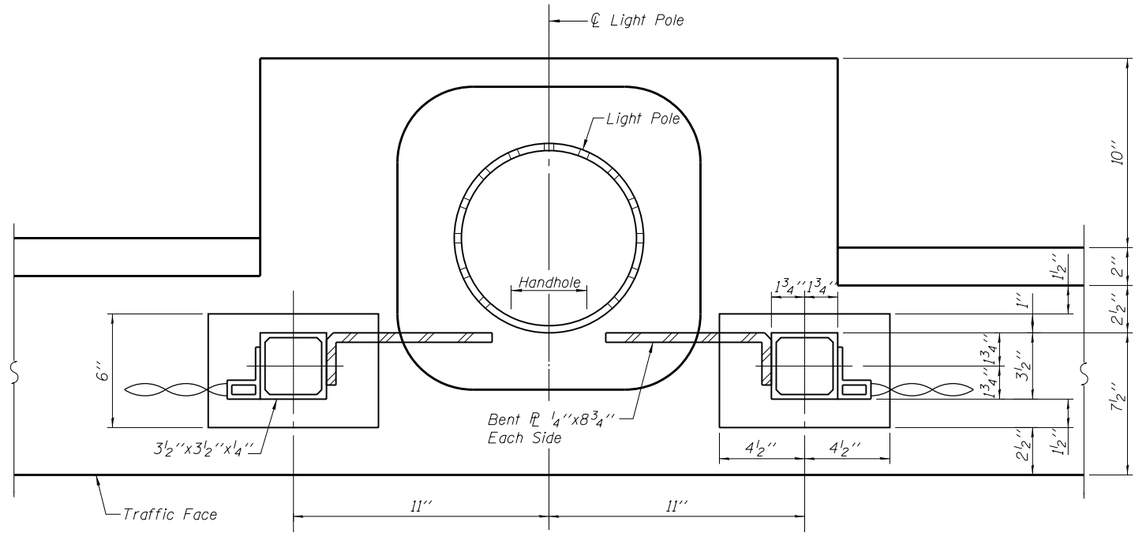


ELEVATION AT LIGHT POLE

(Inside Face)



SECTION A-A

NOTES

1. Work this sheet with sheets S18, S22 and S36.

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3/27/2014 4:56:32 PM

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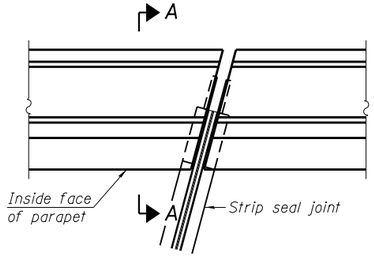
PLOT DATE =	DATE - 3/31/2014	REVISED -

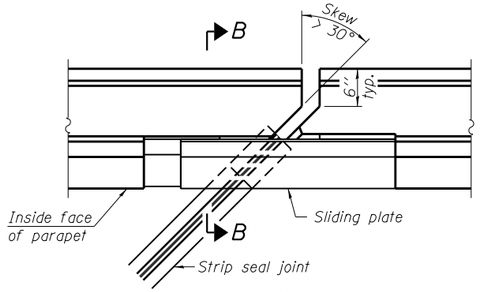
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE FENCE RAILING DETAILS
STRUCTURE NO. 016-1149
SHEET NO. S23 OF 50 SHEETS

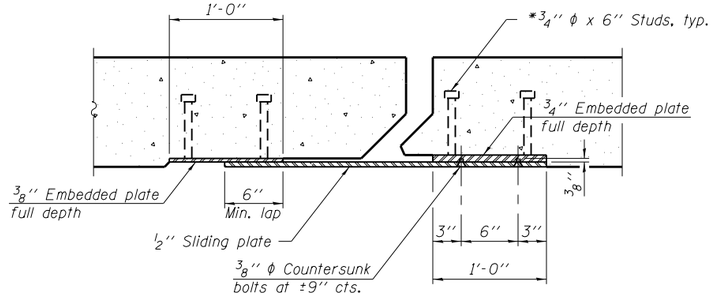
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	87
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			



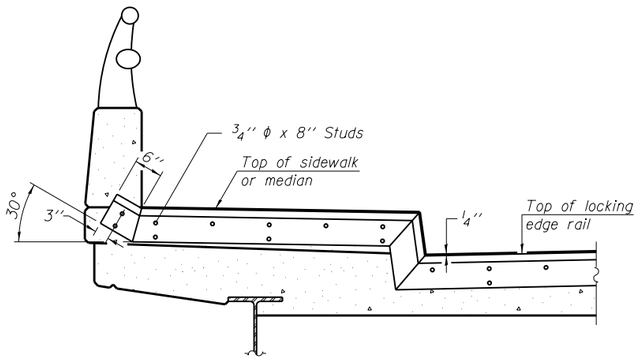
PLAN
(For skews ≤ 30°)



PLAN
(For skews > 30°)
Showing point block

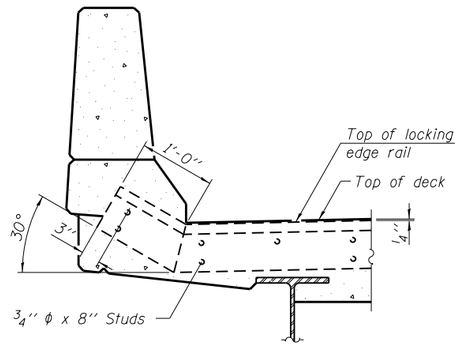


SECTION C-C

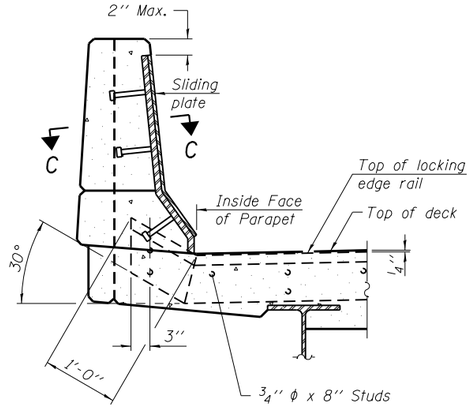


TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN

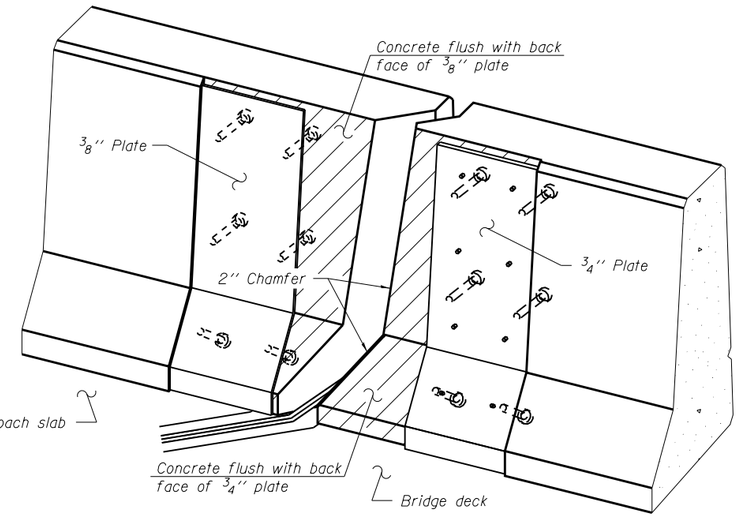
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.



SECTION A-A



SECTION B-B



TRIMETRIC VIEW
(Showing back plates only)

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

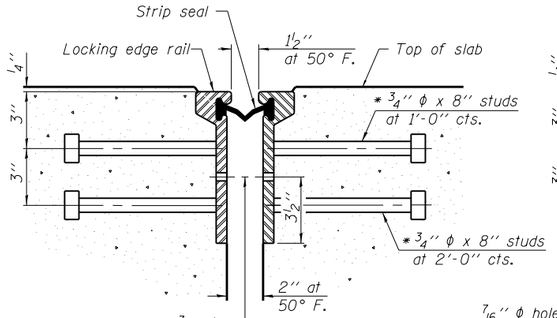
The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

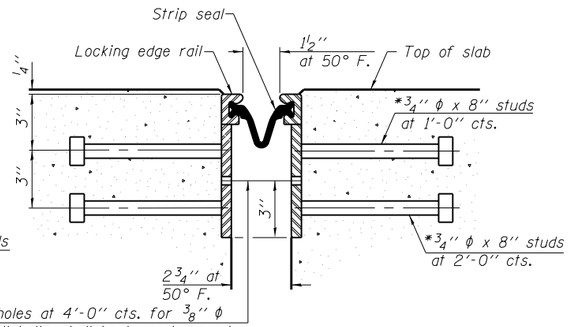
Maximum space between rail segments shall be 3/16", sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.

Parapet plates and anchorage studs for skews > 30° included in the cost of Preformed Joint Strip Seal.



7/16" ϕ holes at 4'-0" cts. for 3/8" ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

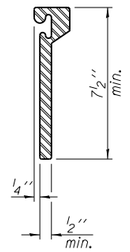
SECTION THRU ROLLED RAIL JOINT



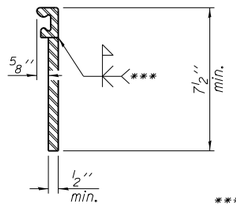
7/16" ϕ holes at 4'-0" cts. for 3/8" ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

SECTION THRU WELDED RAIL JOINT

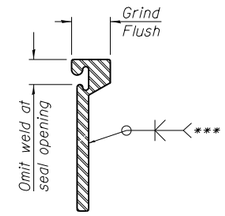
* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



ROLLED EXTRUDED RAIL



WELDED RAIL



*** Back gouge not required if complete joint penetration is verified by mock-up.

LOCKING EDGE RAIL SPLICE

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

Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	167

LOCKING EDGE RAILS

EJ-SSJ 1-27-12

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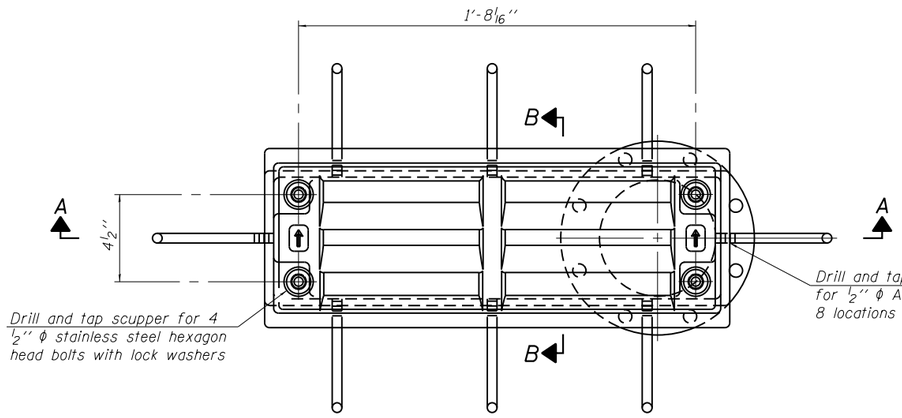
PLOT DATE =	DATE - 3/31/2014	REVISED -	

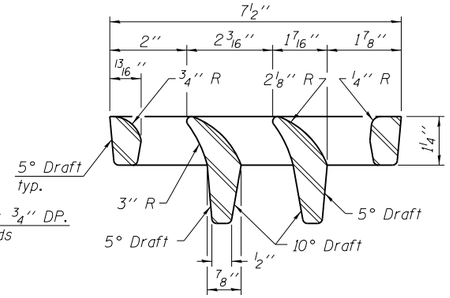
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL
STRUCTURE NO. 016-1149
SHEET NO. S24 OF 50 SHEETS

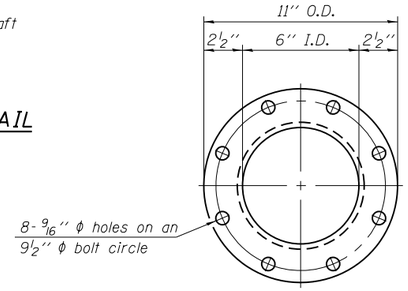
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	88
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			



PLAN



VANE GRATE DETAIL



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.

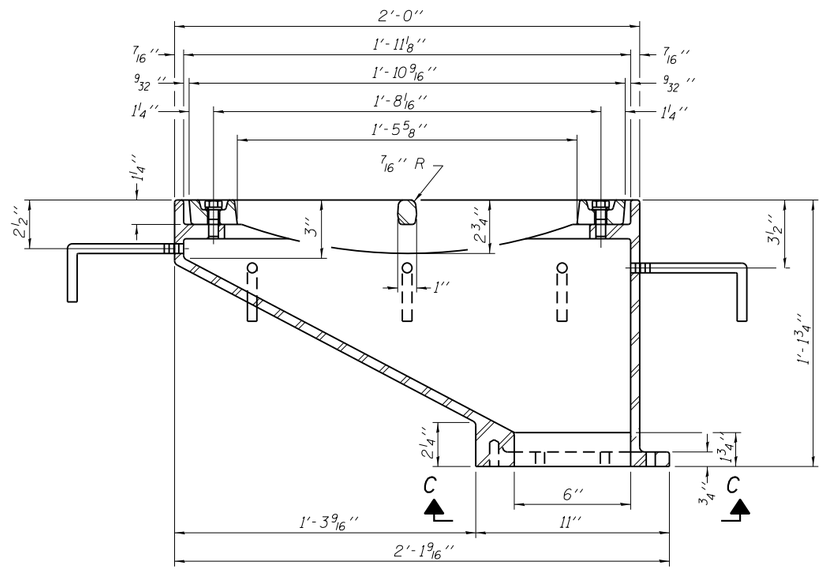
As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.

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.

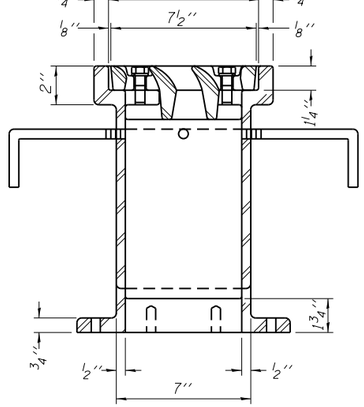
Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scuppers, DS-12.

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.

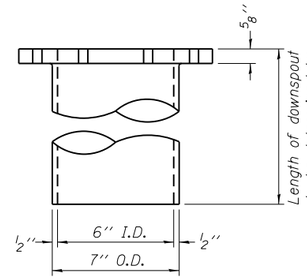


SECTION A-A

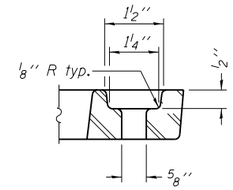
See sheet S15 & S16 of 50 for scupper location relative to parapet.



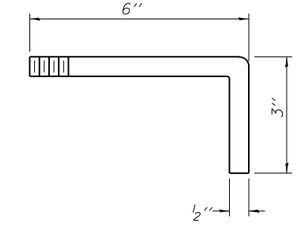
SECTION B-B



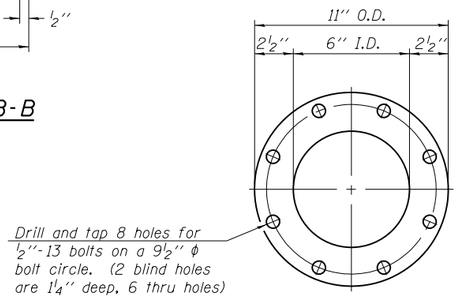
DOWNSPOUT



BOLT HOLE DETAIL



ANCHOR STUD DETAIL



VIEW C-C

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scuppers, DS-12	Each	4

DS-12

7-1-10

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DEPARTMENT OF TRANSPORTATION

DRAINAGE SCUPPER, DS–12
STRUCTURE NO. 016–1149
SHEET NO. S25 OF 50 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	89
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

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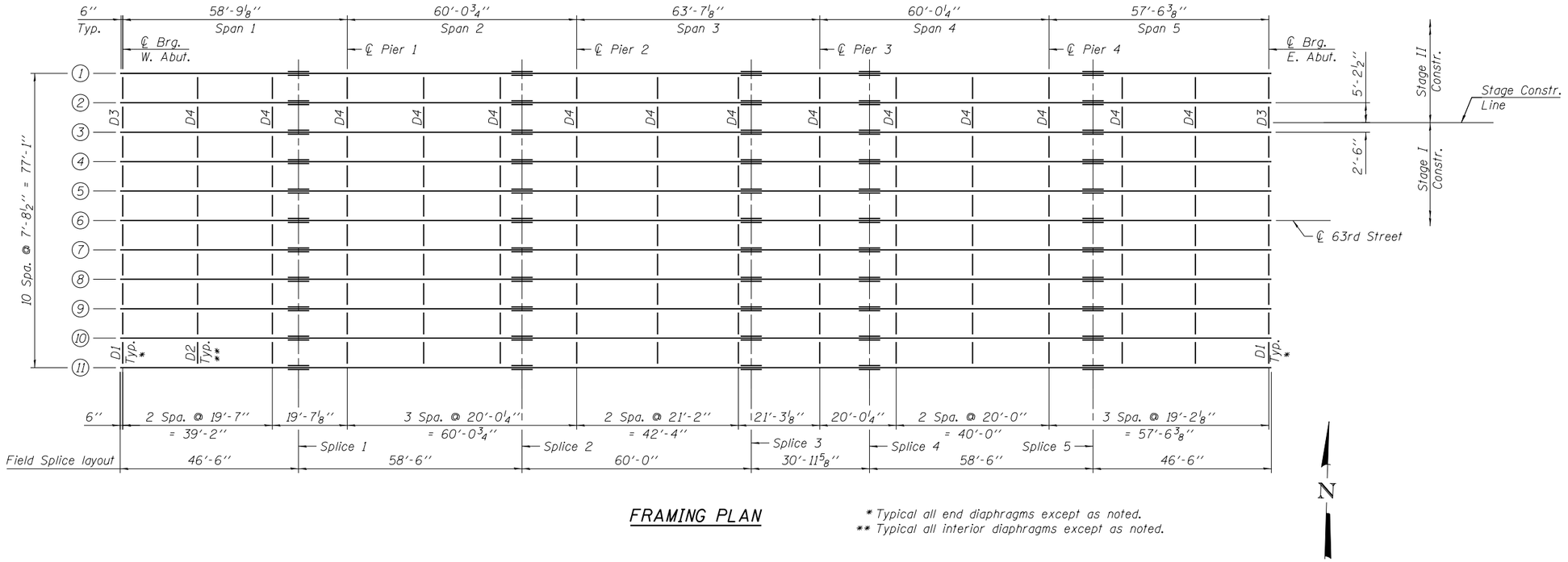

FRAMING PLAN

* Typical all end diaphragms except as noted.
** Typical all interior diaphragms except as noted.

Top of Beam Elevations
(For Fabrication only)

	BEAM 1	BEAM 2	BEAM 3	BEAM 4	BEAM 5	BEAM 6	BEAM 7	BEAM 8	BEAM 9	BEAM 10	BEAM 11
CL. Brg. W. Abut.	600.44	600.44	600.56	600.67	600.79	600.91	600.79	600.67	600.56	600.44	600.44
Splice #1	601.39	601.39	601.51	601.62	601.74	601.85	601.74	601.62	601.51	601.39	601.39
CL. Brg. Pier 1	601.53	601.53	601.64	601.76	601.87	601.99	601.87	601.76	601.64	601.53	601.53
Splice #2	602.02	602.02	602.13	602.25	602.37	602.48	602.37	602.25	602.13	602.02	602.02
CL. Brg. Pier 2	601.99	601.99	602.11	602.22	602.34	602.46	602.34	602.22	602.11	601.99	601.99
Splice #3	601.91	601.91	602.03	602.14	602.26	602.37	602.26	602.14	602.03	601.91	601.91
CL. Brg. Pier 3	601.72	601.72	601.84	601.95	602.07	602.18	602.07	601.95	601.84	601.72	601.72
Splice #4	601.58	601.58	601.70	601.81	601.93	602.04	601.93	601.81	601.70	601.58	601.58
CL. Brg. Pier 4	600.85	600.85	600.97	601.09	601.20	601.32	601.20	601.09	600.97	600.85	600.85
Splice #5	600.68	600.68	600.79	600.91	601.02	601.14	601.02	600.91	600.79	600.68	600.68
CL. Brg. E. Abut.	600.02	600.02	600.14	600.25	600.37	600.49	600.37	600.25	600.14	600.02	600.02

NOTES

1. Work this sheet with Sheets S27 and S28.
2. All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

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DEPARTMENT OF TRANSPORTATION

FRAMING PLAN
STRUCTURE NO. 016-1149
SHEET NO. S26 OF 50 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	90
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

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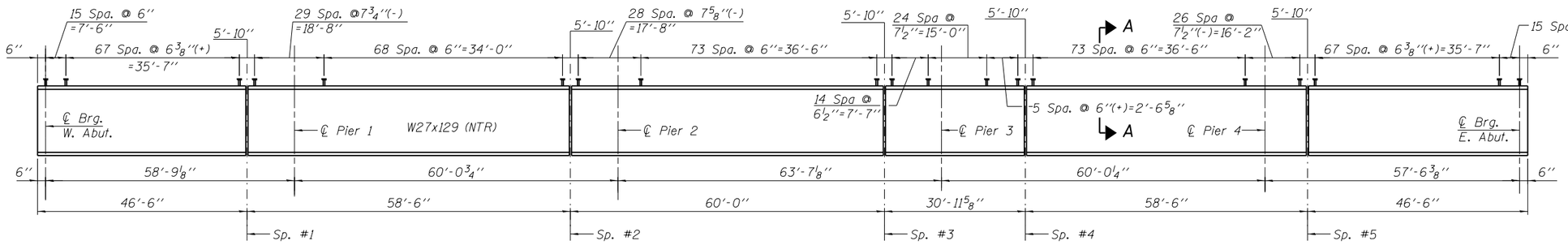
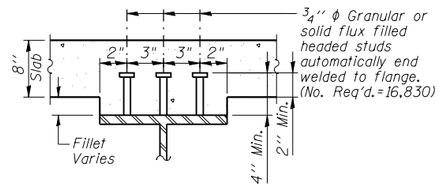


BEAM ELEVATION



SECTION A-A

INTERIOR BEAM MOMENT TABLE										
		0.4 Sp. 1	Pier 1	0.5 Sp. 2	Pier 2	0.5 Sp. 3	Pier 3	0.5 Sp. 4	Pier 4	0.6 Sp. 5
I_s	(in^4)	4,760	4,760	4,760	4,760	4,760	4,760	4,760	4,760	4,760
I_c (n)	(in^4)	13,629	-	13,629	-	13,629	-	13,629	-	13,629
I_c (3n)	(in^4)	10,212	-	10,212	-	10,212	-	10,212	-	10,212
I_c (cr)	(in^4)	-	6,886	-	6,886	-	6,886	-	6,886	-
S_s	(in^3)	345	345	345	345	345	345	345	345	345
S_c (n)	(in^3)	517.60	-	517.60	-	517.60	-	517.60	-	517.60
S_c (3n)	(in^3)	470.40	-	470.40	-	470.40	-	470.40	-	470.40
S_c (cr)	(in^3)	-	406.60	-	406.60	-	406.60	-	406.60	-
DC1	(k/')	0.945	0.945	0.945	0.945	0.945	0.945	0.945	0.945	0.945
M_{DC1}	('k)	255	338	110	289	186	2.92	114	328	243
DC2	(k/')	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
M_{DC2}	('k)	140	189	59	161	101	163	61	183	133
DW	(k/')	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28	0.28
M_{DW}	('k)	75	102	32	87	54	88	33	99	72
M_{L+IM}	('k)	635	517	521	505	551	505	520	510	621
M_u (Strength I)	('k)	1,719	1,715	1,172	1,577	1,403	1,584	1,177	1,680	1,600
$\phi_f M_n$	('k)	2,559	1,988	2,674	2,020	2,626	2,015	2,674	1,998	2,588
f_s DC1	(ksi)	8.87	11.77	1.51	10.06	6.46	10.17	3.95	11.43	8.44
f_s DC2	(ksi)	3.57	3.59	2.00	3.07	2.57	3.11	1.55	3.49	3.39
f_s DW	(ksi)	1.92	1.94	0.81	1.66	1.40	1.67	0.84	1.88	1.83
f_s (L+IM)	(ksi)	14.40	14.93	11.81	14.60	12.47	14.59	11.78	14.74	14.07
f_s (Service II)	(ksi)	33.52	40.21	21.86	36.80	27.01	36.98	22.01	39.35	32.37
$0.95R_hF_{yf}$	(ksi)	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50	47.50
fs (Total)(Strength I)	(ksi)	44.20	43.20	29.50	48.50	35.70	48.70	29.70	42.10	42.70
$\phi_f F_n$	(ksi)	50	50	50	50	50	50	50	50	50
V_f	(k)	21.37	33.63	21.45	35.83	21.55	34.85	21.45	35.47	21.46

INTERIOR BEAM REACTION TABLE							
		W. Abut.	Pier 1	Pier 2	Pier 3	Pier 4	E. Abut.
R_{DC1}	(k)	24.21	62.54	57.37	57.69	61.68	23.66
R_{DC2}	(k)	12.07	34.54	31.65	31.83	34.07	11.77
R_{DW}	(k)	6.50	18.60	17.04	17.14	18.34	6.34
R L+IM	(k)	74.61	109.80	108.95	108.97	109.19	74.08
R_{Total}	(k)	117.39	225.47	215.02	215.64	223.28	114.46

NOTES

1. The W27 beams and the splice plates for the W27 beams shall be AASHTO M270 Grade 50.

2. Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.

I_s, S_s: Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads ($in.^4$ and $in.^3$).

$I_c(n)$, $S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads ($in.^4$ and $in.^3$).

$I_c(3n)$, $S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads ($in.^4$ and $in.^3$).

$I_c(cr)$, $S_c(cr)$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads ($in.^4$ and $in.^3$).

DC1: Un-factored non-composite dead load (kips/ft.).

M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).

DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).

M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).

DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).

M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

M_{L+IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

M_u (Strength I): Factored design moment (kip-ft.).
$1.25\ (M_{DC1} + M_{DC2}) + 1.5\ M_{DW} + 1.75\ M_{L+IM}$

$\phi_f M_n$: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft).

f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
M_{DC1} / S_{nc}

f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
$M_{DC2} / S_c(3n)$ or $M_{DC2} / S_c(cr)$ as applicable.

f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
$M_{DW} / S_c(3n)$ or $M_{DW} / S_c(cr)$ as applicable.

f_s (L+IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
$M_{L+IM} / S_c(n)$ or $M_{DW} / S_c(cr)$ as applicable.

f_s (Service II): Sum of stresses as computed below (ksi).
$f_{sDC1} + f_{sDC2} + f_{sDW} + 1.3\ f_s(L+IM)$

$0.95R_hF_{yf}$: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).

f_s (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).
$1.25\ (f_{sDC1} + f_{sDC2}) + 1.5\ f_{sDW} + 1.75\ f_s(L+IM)$

$\phi_f F_n$: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).

V_f: Maximum factored shear range in span computed according to Article 6.10.10.

BILL OF MATERIAL

Item	Unit	Total
Stud Shear Connectors	Each	16,830

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEAM DETAILS
STRUCTURE NO. 016-1149
SHEET NO. S27 OF 50 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	91
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

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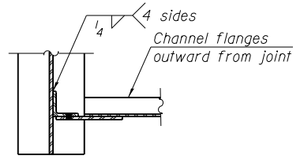
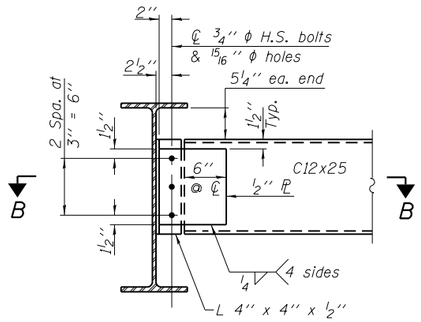
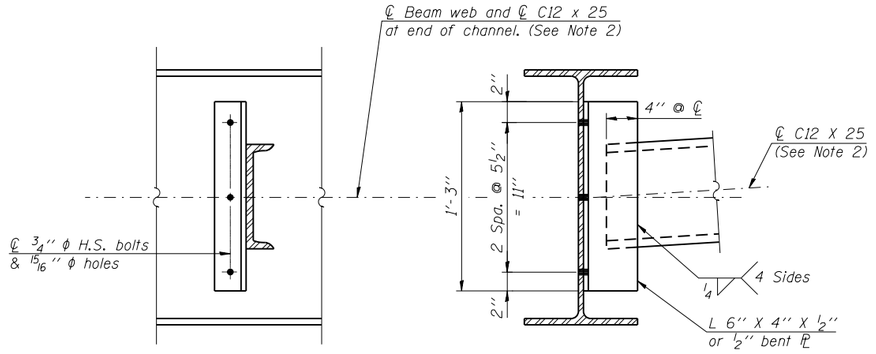


SECTION B-B



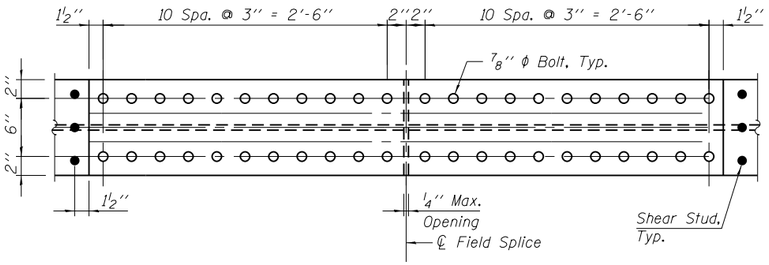
END DIAPHRAGM-D1

(18 Required)

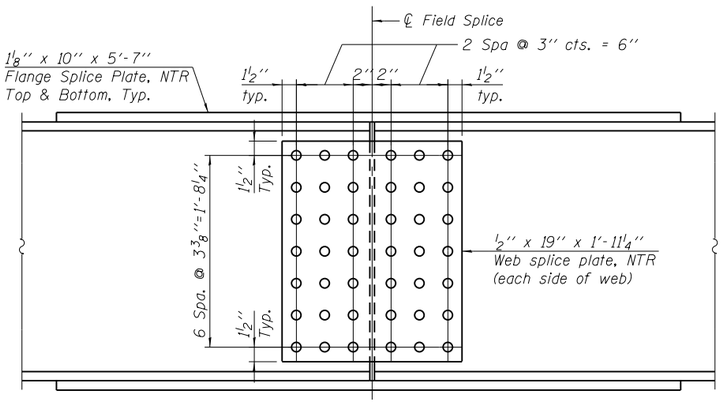


INTERIOR DIAPHRAGM - D2

(126 Required)

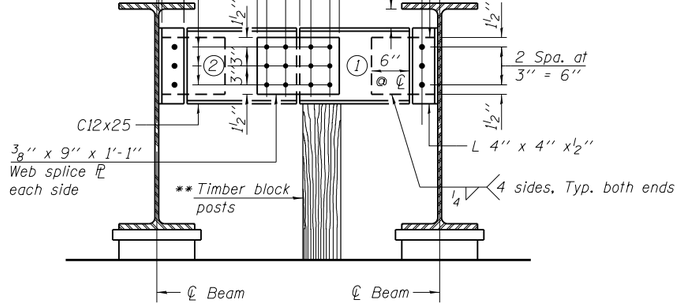


FLANGE SPLICE PLATE



WEB SPLICE PLATE

SPLICE DETAILS

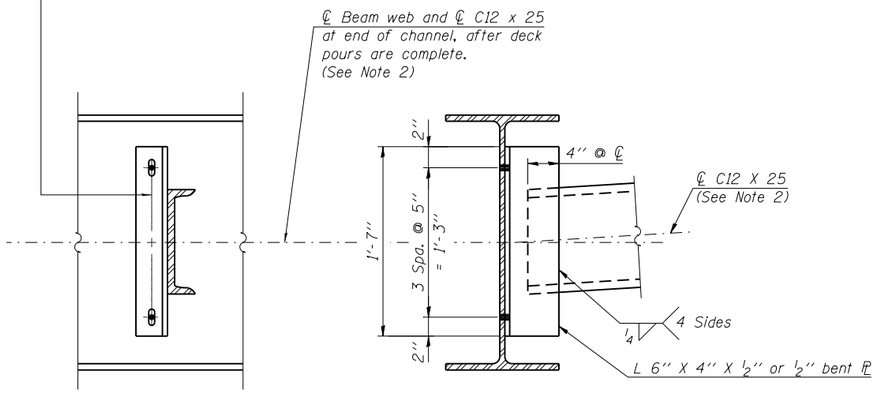


** Cost of Timber Block Posts is included with Structural Steel.

END DIAPHRAGM-D3

(2 Required)

℄ of 3/4" ϕ H.S. bolts, 15/16" ϕ holes at Beam 3 end of bracing and 13/16" x 1 7/8" standard long-slotted vertical holes at Beam 2 member connection plate. At Beam 2, locate slotted holes such that at final condition, bolts are at bottom of slots.
The bolts for the slotted holes shall only be finger tightened prior to the deck pouring and to be fully tightened after completion of the pouring for Stage II Construction.



INTERIOR DIAPHRAGM - D4

(14 Required)

END DIAPHRAGM STAGE CONSTRUCTION SEQUENCE

1.) Order diaphragm in two sections.
2.) Attach section (1) of diaphragm to beam
3.) Place timber block posts between section (1) of diaphragm and abutment bearing section.
4.) Attach section (2) of diaphragm to both beam and section (1) of diaphragm during stage II construction with splice plates.
5.) Remove timber block posts.

NOTES

1. Two hardened washers are required for each set of oversized holes.
2. Alternate C12x30 diaphragm channels are permitted for D2 and D4 diaphragms to facilitate material acquisition. Calculated weight of structural steel is based on C12x25. The alternate, if utilized, shall be provided at no extra cost to the Department.
3. The W27 beams and the splice plates for the W27 beams shall be AASHTO M270 Grade 50.

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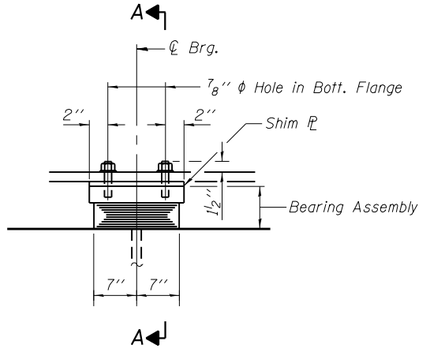
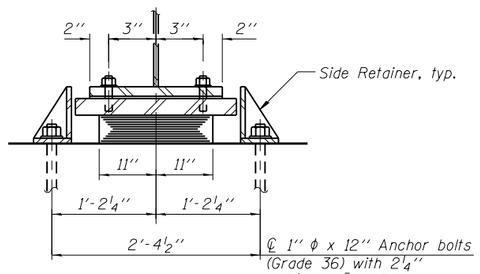
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIELD SPLICE DETAILS
STRUCTURE NO. 016-1149
SHEET NO. S28 OF 50 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	92
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			



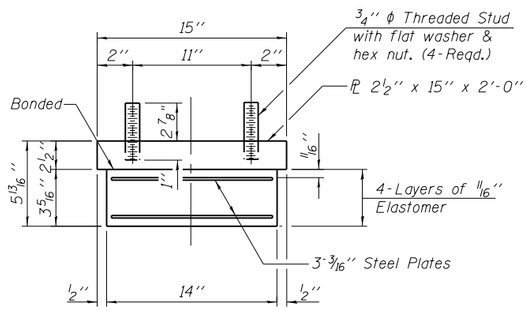
ELEVATION



SECTION A-A

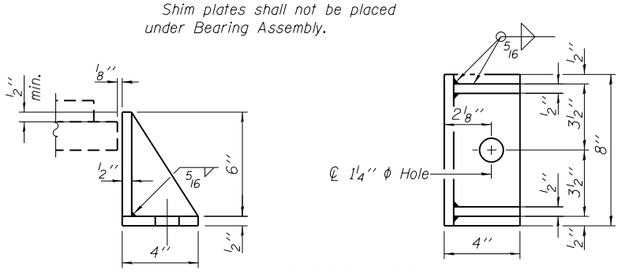
TYPE I ELASTOMERIC EXP. BRG. AT PIERS 1 & 4

(22 Required)



BEARING ASSEMBLY

Note:
Shim plates shall not be placed under Bearing Assembly.



SIDE RETAINER

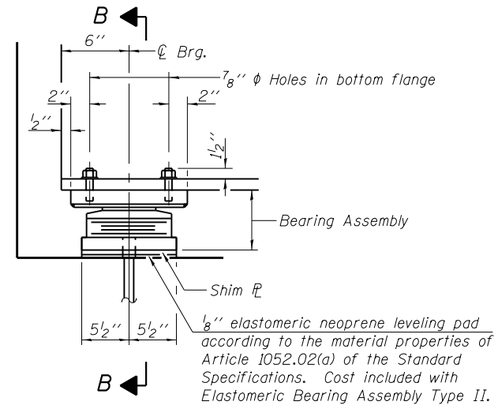
Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates.

BILL OF MATERIAL

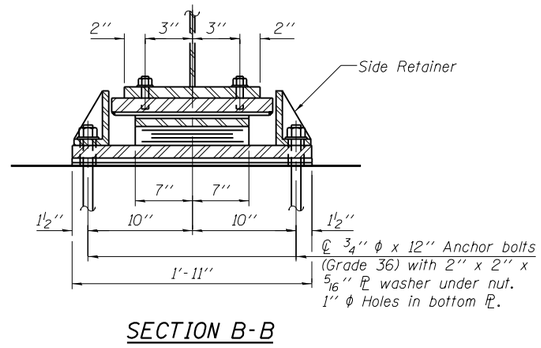
Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	22
Elastomeric Bearing Assembly, Type II	Each	22
Anchor Bolts, 3/4"	Each	44
Anchor Bolts, 1"	Each	44

NOTES

1. Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
2. Anchor bolts for side retainers for Type I bearings may be cast in place or installed in holes drilled before or after members are in place.
3. Anchor bolts for Type II bearings shall be placed in holes drilled in the concrete through holes in the bottom bearing plate after members are in place. Side retainers shall be placed after bolts are installed.
4. Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
5. Side retainers and other steel members required for the elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I or Type II.
6. The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 270 Grade 50.
7. The 1/8" PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.
8. Bonding of 1/8" PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.
9. Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
10. All bearings plates, side retainers, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 as applicable.



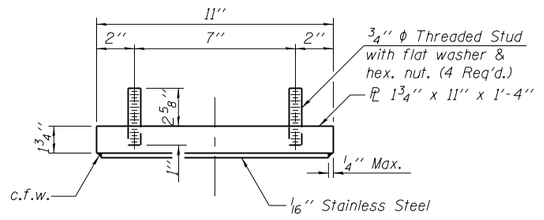
ELEVATION



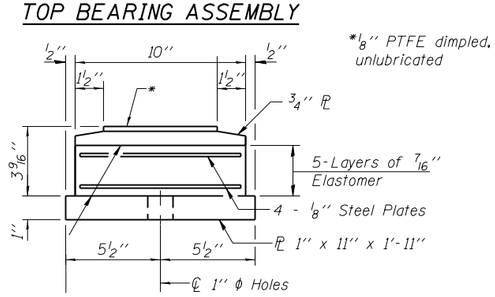
SECTION B-B

TYPE II ELASTOMERIC EXP. BRG. AT ABUT.

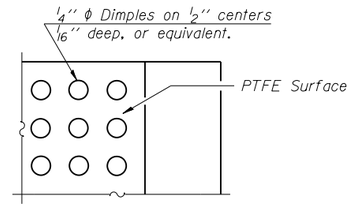
(22 Required)



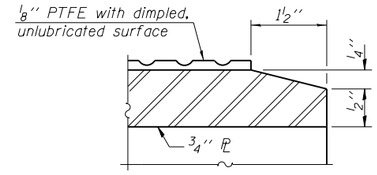
TOP BEARING ASSEMBLY



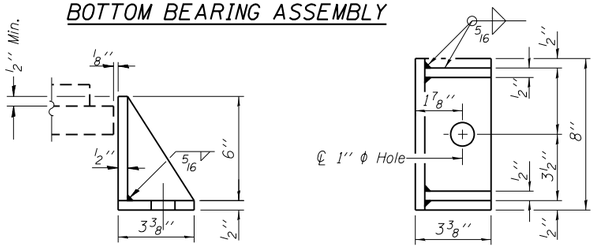
*1/8" PTFE dimpled, unlubricated



PLAN-PTFE SURFACE



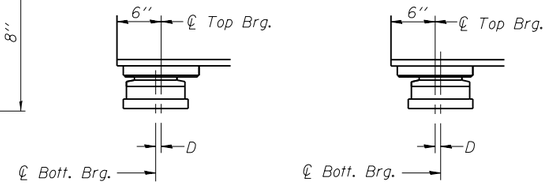
SECTION THRU PTFE



BOTTOM BEARING ASSEMBLY

SIDE RETAINER

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



BELOW 50°F.
(Move bott. brg. away from fixed brg.)

ABOVE 50°F.
(Move bott. brg. toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG.

D=1/8" per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

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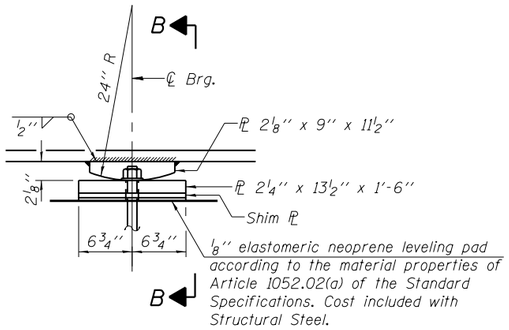
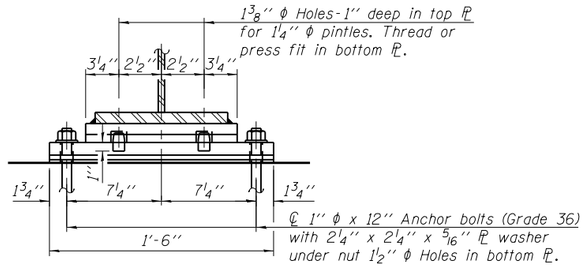
DEPARTMENT OF TRANSPORTATION

EXPANSION BEARINGS DETAILS
STRUCTURE NO. 016-1149
SHEET NO. S29 OF 50 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	93
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			



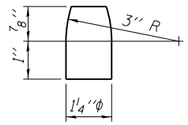
ELEVATION AT PIER



SECTION B-B

FIXED BEARING AT PIERS 2 & 3

(22 Required)



PINTLE

BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 1"	Each	44

NOTES

1. Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.
2. Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.
3. Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.
4. The structural steel plates and pintles of the fixed bearings shall conform to the requirements of AASHTO M 270 Grade 50.
5. Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
6. All bearing plates, side retainers, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 as applicable.

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PLOT DATE =	DATE - 3/31/2014	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIXED BEARINGS DETAILS
STRUCTURE NO. 016-1149
SHEET NO. S30 OF 50 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	94
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

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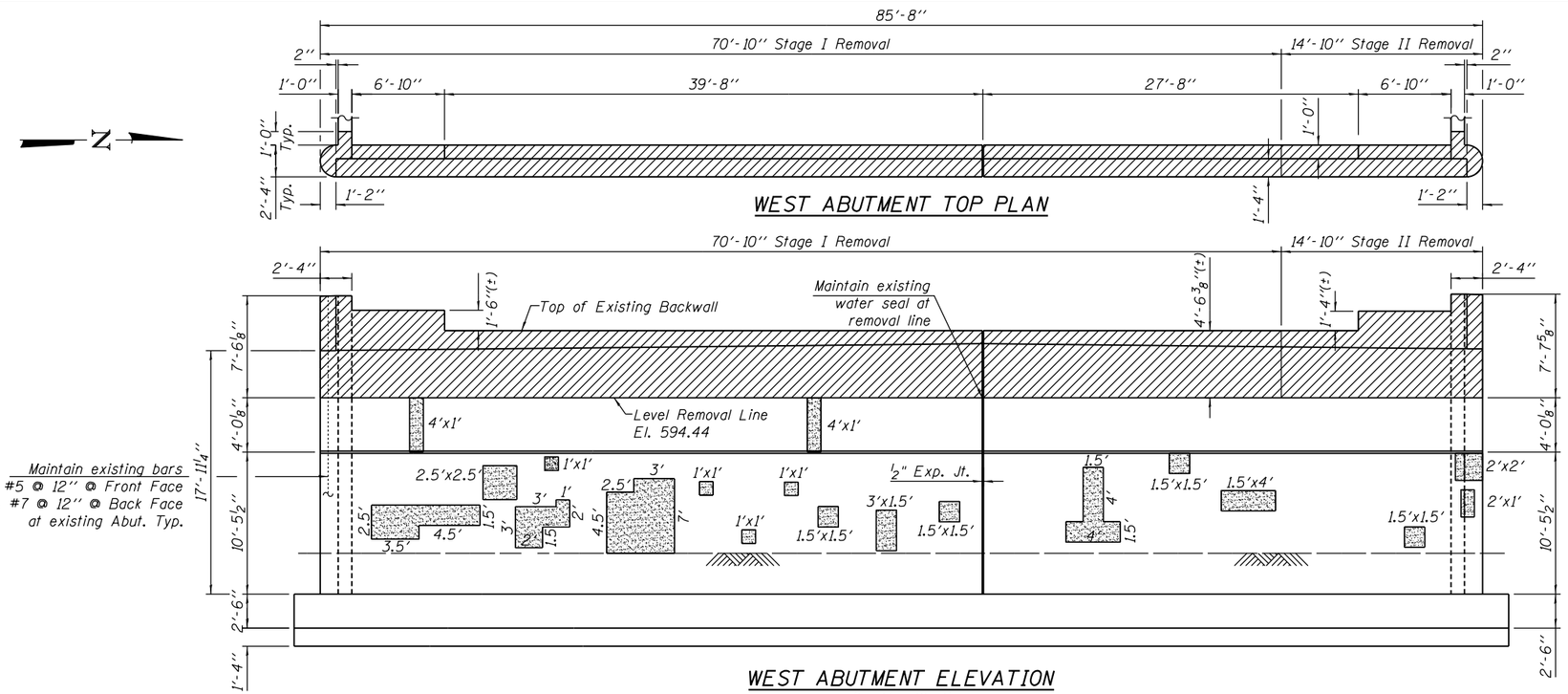

BILL OF MATERIAL

Item	Unit	Quantity
Concrete Removal	cu. yd.	70
Structural Repair of Concrete (Depth equal to or less than 5")	sq. ft.	141

LEGEND

Concrete Removal

Structural Repair of Concrete (Depth Equal to or Less than 5")

NOTES

1. Existing reinforcement shall be cleaned and incorporated into the new construction as appropriate. Cost included with Concrete Removal.

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DEPARTMENT OF TRANSPORTATION

ABUTMENT REMOVAL & REPAIRS
STRUCTURE NO. 016-1149
SHEET NO. S31 OF 50 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	95
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

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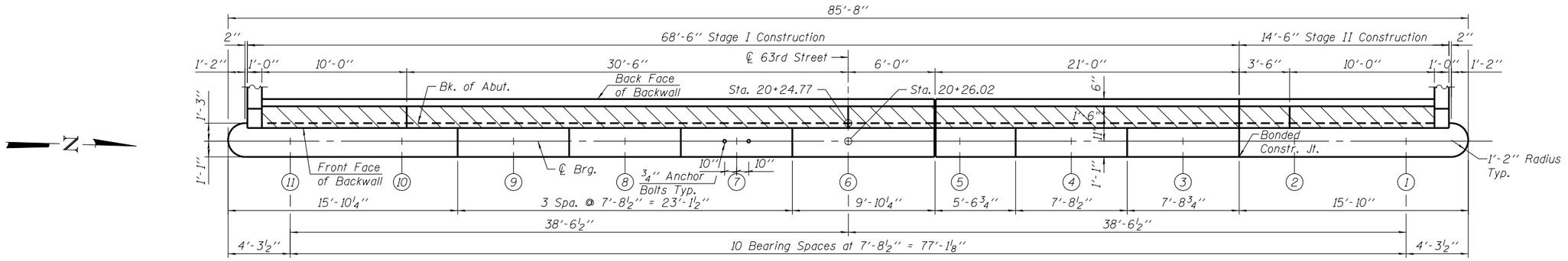
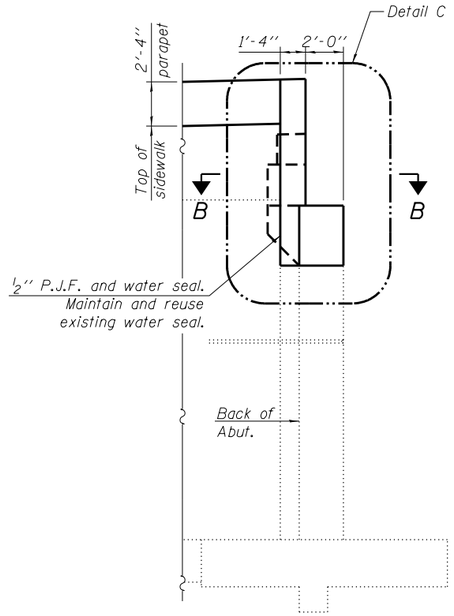
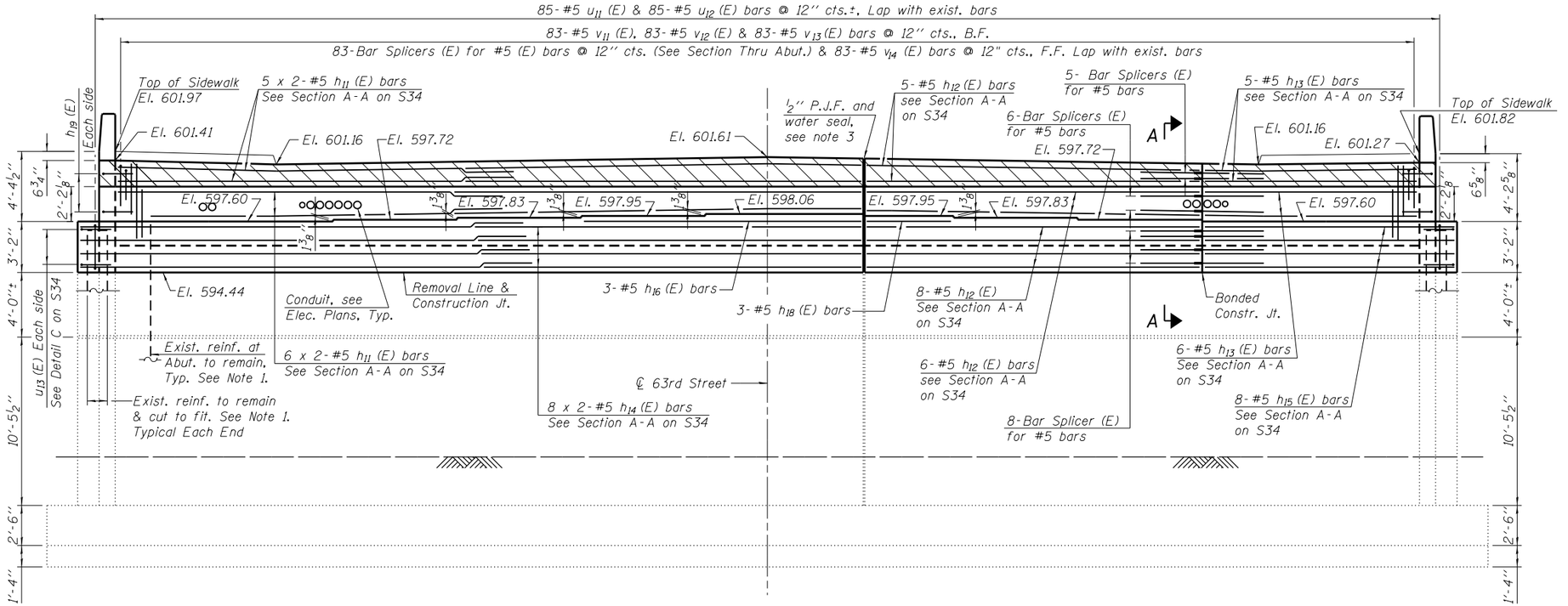


WEST ABUTMENT TOP PLAN



END VIEW

(South side shown, North side opposite hand)



WEST ABUTMENT ELEVATION

(Looking West)

NOTES

1. Existing reinforcement shall be cleaned and incorporated into the new construction as appropriate. Cost included with Concrete Removal.
2. For Sections and Detail C, see Sheet S34.
3. A rubber water seal with dimensions similar to the existing seal shall be provided at the ½" expansion joint 6 feet North of the centerline. The water seal shall be bonded to the top of the existing seal per the manufacturer's recommendations and shall extend up to meet the 6" horizontal water seal in the abutment backwall. This cost shall be included in Concrete Superstructure.

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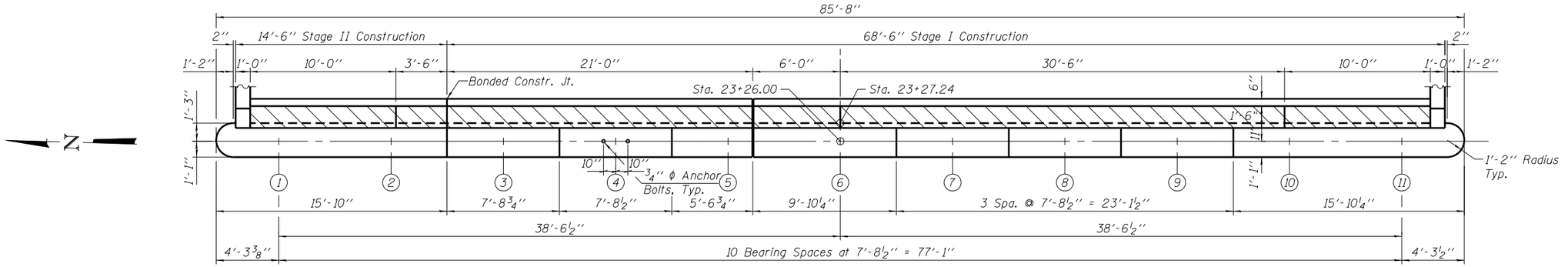
WEST ABUTMENT
STRUCTURE NO. 016-1149
SHEET NO. S32 OF 50 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	96
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			



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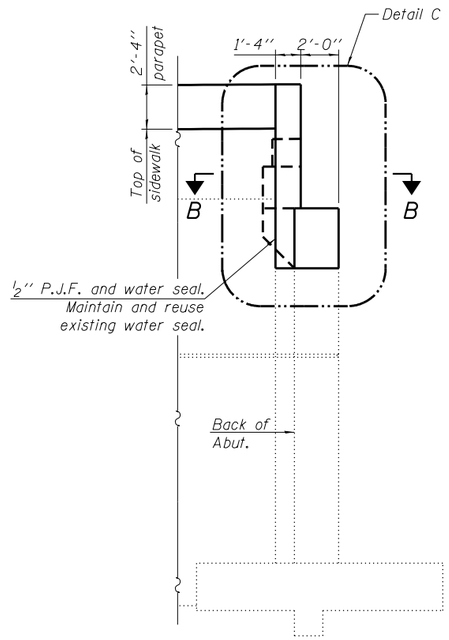
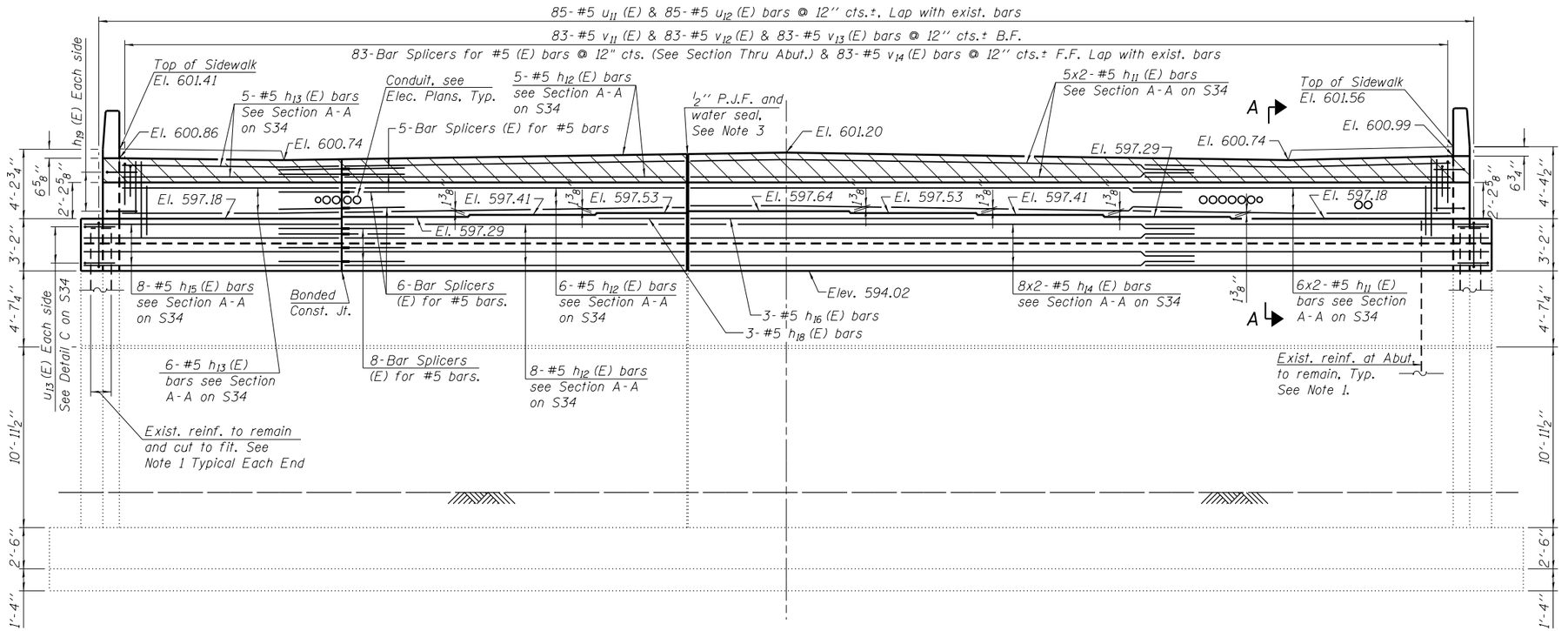
EAST ABUTMENT TOP PLAN



END VIEW

(North side shown, South side opposite hand)



EAST ABUTMENT ELEVATION

(Looking East)

NOTES

1. Existing reinforcement shall be cleaned and incorporated into the new construction as appropriate. Cost included with Concrete Removal.
2. For Sections and Detail C, see Sheet S34.
3. A rubber water seal with dimensions similar to the existing seal shall be provided at the 1/2" expansion joint 6 feet North of the centerline. The water seal shall be bonded to the top of the existing seal per the manufacturer's recommendations and shall extend up to meet the 6" horizontal water seal in the abutment backwall. This cost shall be included in Concrete Superstructure.

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DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT
STRUCTURE NO. 016-1149
SHEET NO. S33 OF 50 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	97
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			

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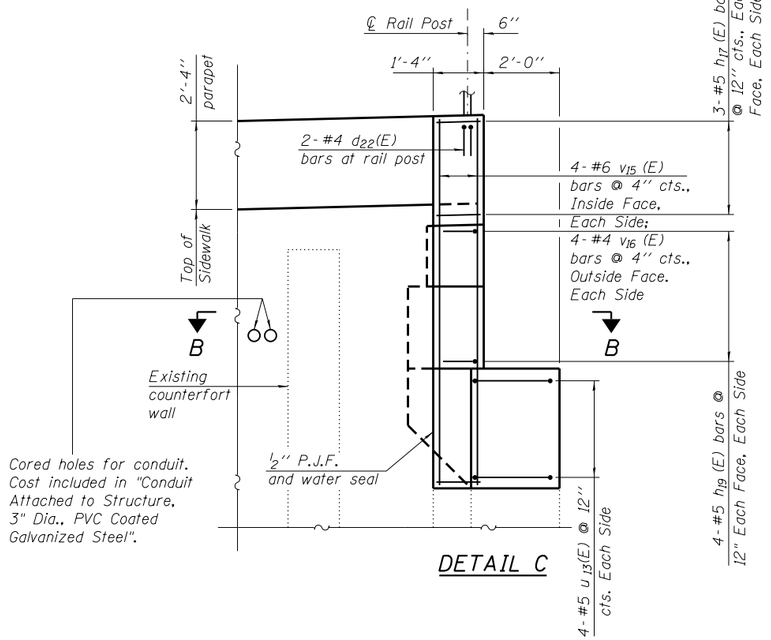
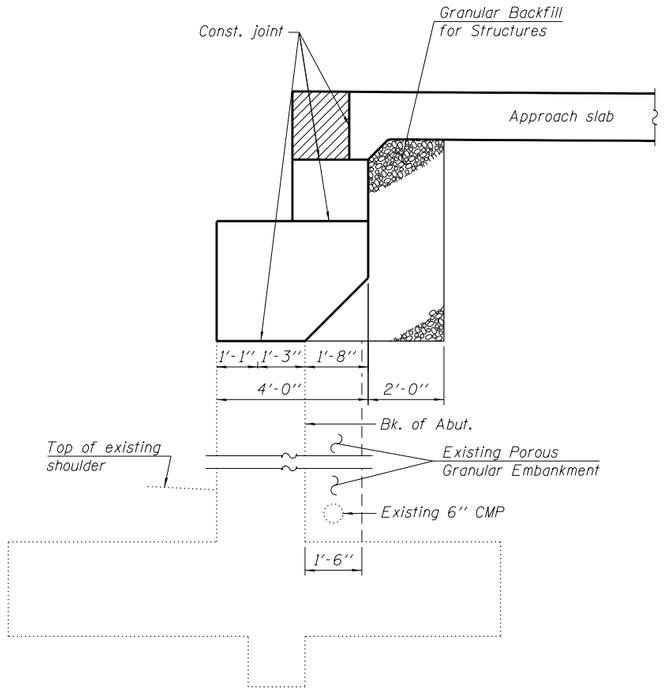
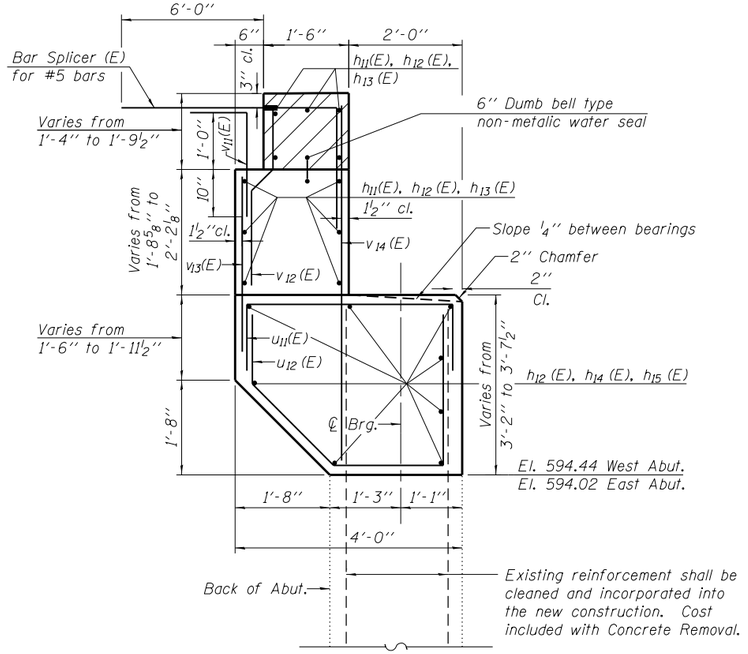


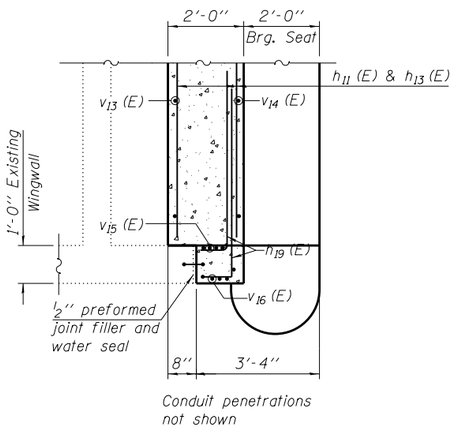
DETAIL C



SECTION THRU ABUTMENTS

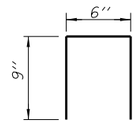


SECTION A-A

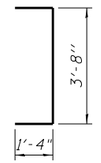


Conduit penetrations not shown

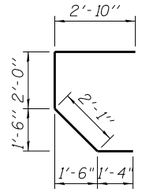
SECTION B-B



BAR d_{22}(E)



BAR u_{11} (E)



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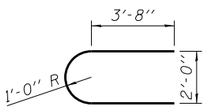

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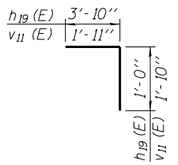
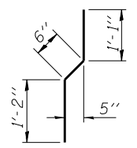


BAR h_{19} (E) & v_{11} (E)



BAR v_{12} (E)

WEST ABUTMENT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d_{22}(E)	4	#4	2'-0"	
h_{11} (E)	22	#5	25'-1"	
h_{12} (E)	19	#5	20'-8"	
h_{13} (E)	11	#5	13'-2"	
h_{14} (E)	16	#5	25'-6"	
h_{15} (E)	8	#5	14'-6"	
h_{16} (E)	3	#5	17'-3"	
h_{17} (E)	12	#5	1'-0"	
h_{18} (E)	3	#5	5'-3"	
h_{19} (E)	16	#5	4'-10"	
u_{11} (E)	85	#5	6'-4"	
u_{12} (E)	85	#5	8'-3"	
u_{13} (E)	8	#5	10'-6"	
v_{11} (E)	83	#5	3'-9"	
v_{12} (E)	83	#5	2'-9"	
v_{13} (E)	83	#5	3'-4"	
v_{14} (E)	83	#5	6'-0"	
v_{15} (E)	8	#6	9'-6"	
v_{16} (E)	8	#4	9'-6"	
Structure Excavation			Cu. yd	117
Concrete Structures			Cu. yd	51.1
Reinforcement Bars, Epoxy Coated			Pound	4,770
Concrete Sealer			Sq. Ft.	771
Granular Backfill for Structures			Cu. yd	46

EAST ABUTMENT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d_{22}(E)	4	#4	2'-0"	
h_{11} (E)	22	#5	25'-1"	
h_{12} (E)	19	#5	20'-8"	
h_{13} (E)	11	#5	13'-2"	
h_{14} (E)	16	#5	25'-6"	
h_{15} (E)	8	#5	14'-6"	
h_{16} (E)	3	#5	17'-3"	
h_{17} (E)	12	#5	1'-0"	
h_{18} (E)	3	#5	5'-3"	
h_{19} (E)	16	#5	4'-10"	
u_{11} (E)	85	#5	6'-4"	
u_{12} (E)	85	#5	8'-3"	
u_{13} (E)	8	#5	10'-6"	
v_{11} (E)	83	#5	3'-9"	
v_{12} (E)	83	#5	2'-9"	
v_{13} (E)	83	#5	3'-4"	
v_{14} (E)	83	#5	6'-0"	
v_{15} (E)	8	#6	9'-6"	
v_{16} (E)	8	#4	9'-6"	
Structure Excavation			Cu. yd	100
Concrete Structures			Cu. yd	51.4
Reinforcement Bars, Epoxy Coated			Pound	4,770
Concrete Sealer			Sq. Ft.	772
Granular Backfill for Structures			Cu. yd	46

NOTES

1. For details of Bar Splicers, see sheet S49.
2. Hatched area to be poured after superstructure false work has been removed. Quantity of concrete included with Concrete Superstructure.

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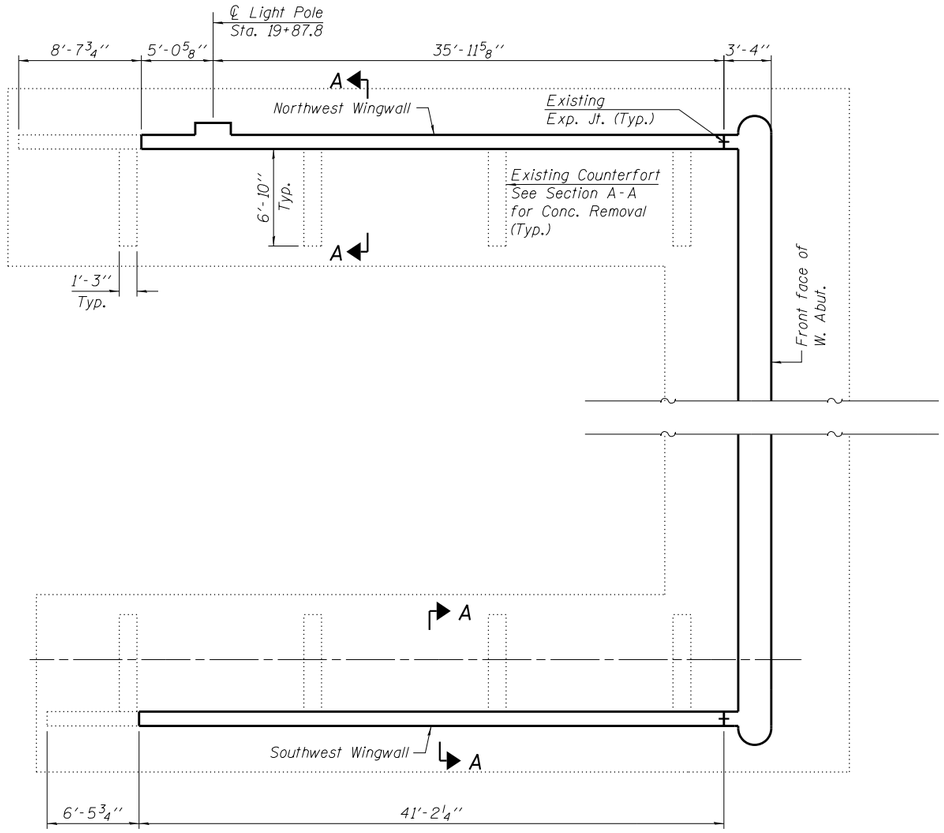
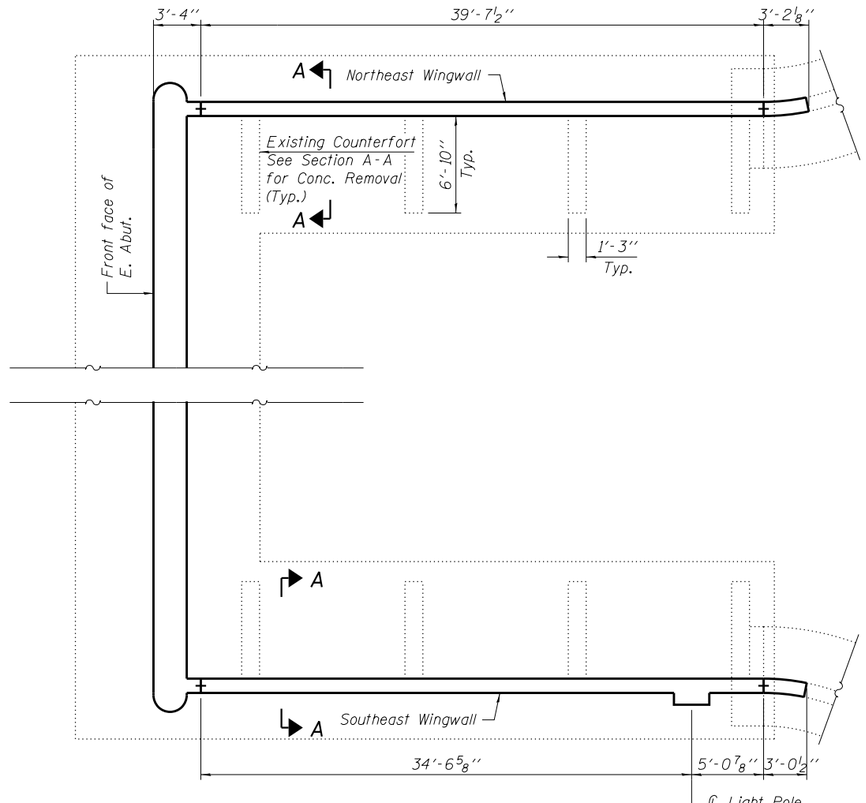
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

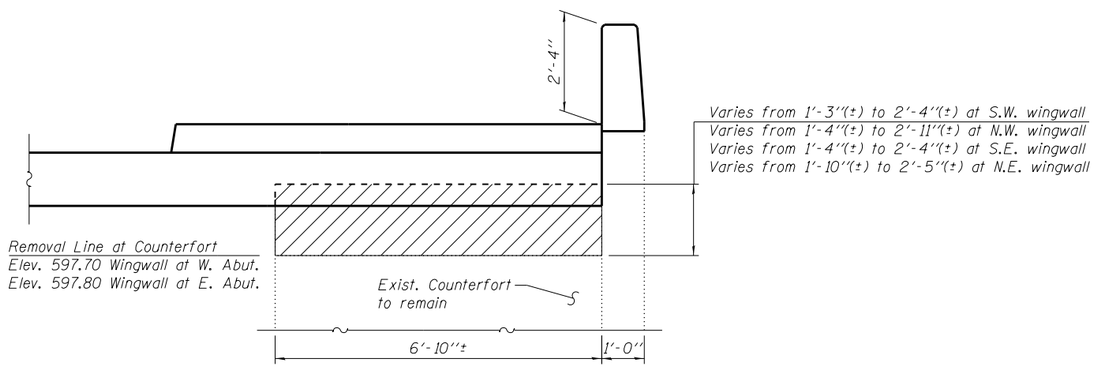
ABUTMENT DETAILS
STRUCTURE NO. 016-1149
SHEET NO. S34 OF 50 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	98
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			





WINGWALL PLAN



SECTION A-A

LEGEND

Concrete Removal

NOTES

1. Work this sheet with sheets S36 and S37.

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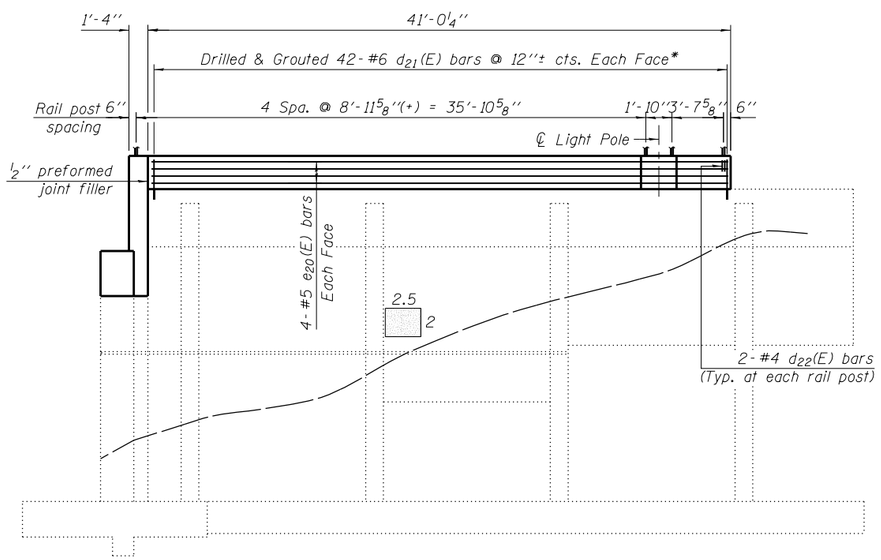
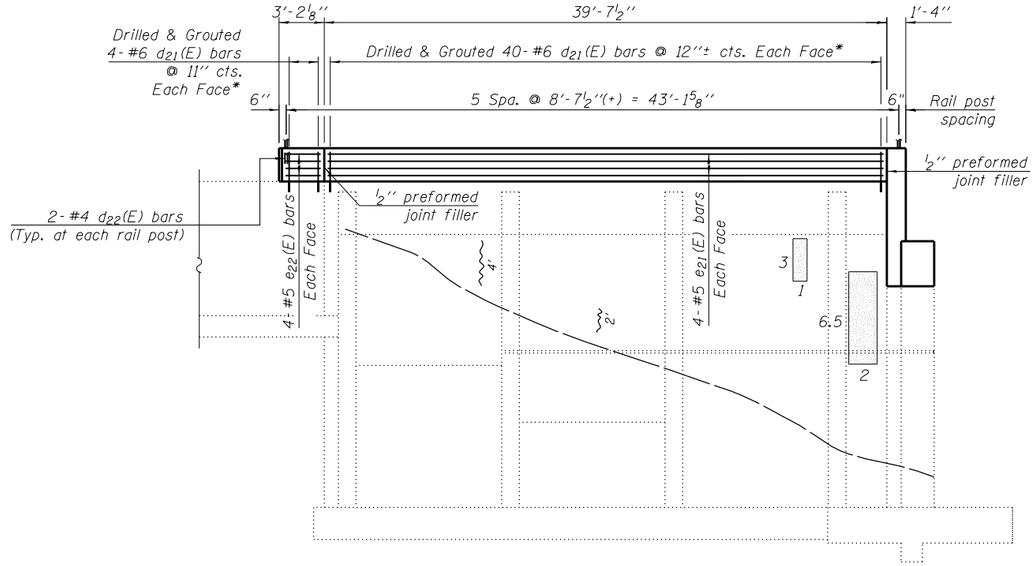
WINGWALL REMOVAL & REPAIRS I
STRUCTURE NO. 016-1149
SHEET NO. S35 OF 50 SHEETS

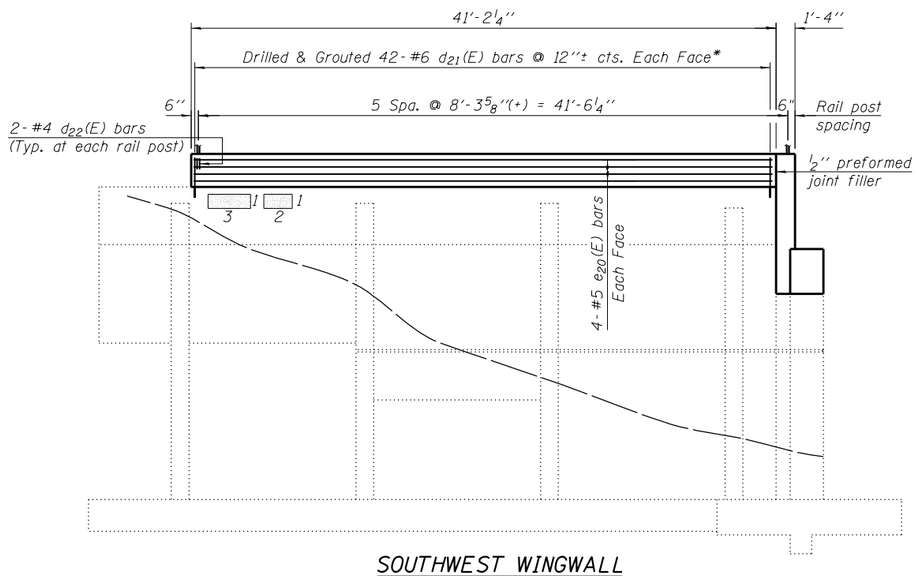
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	99
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			



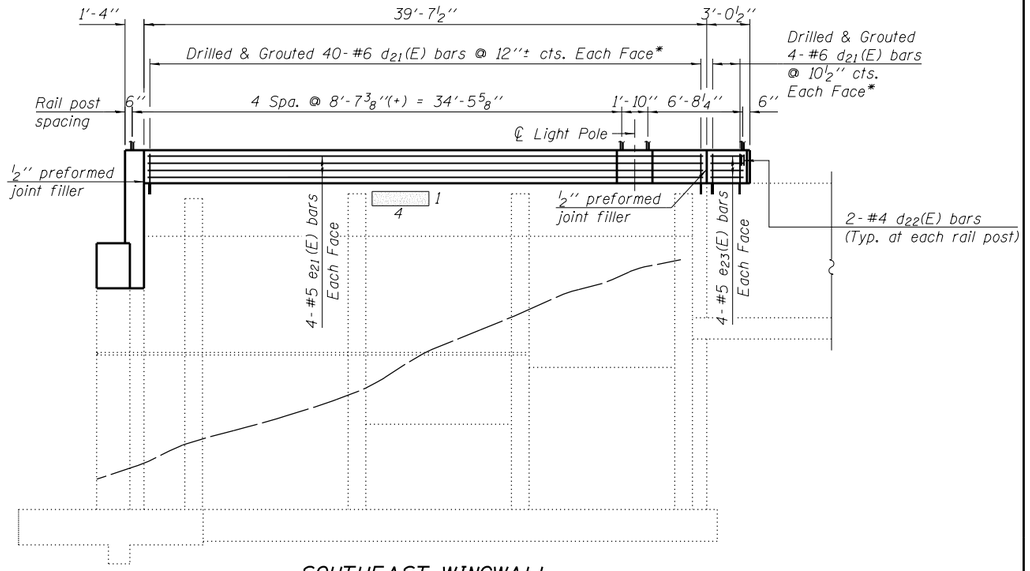
NORTHWEST WINGWALL ELEVATION



NORTHEAST WINGWALL ELEVATION



SOUTHWEST WINGWALL ELEVATION



SOUTHEAST WINGWALL ELEVATION

LEGEND

Structural Repair of Concrete (Depth Equal to or Less than 5")

3' Epoxy Crack Injection

NOTE

*Epoxy grout d_{21}(E) bars in 12" (min.) drilled holes according to Article 584 of the Standard Specifications.

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WINGWALL REMOVAL & REPAIRS II
STRUCTURE NO. 016-1149
SHEET NO. S36 OF 50 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	1920-B	COOK	142	100
		CONTRACT NO. 60J15		
	ILLINOIS FED. AID PROJECT			