FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS IMPROVEMENT IS LOCATED IN THE CITY OF CHICAGO

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

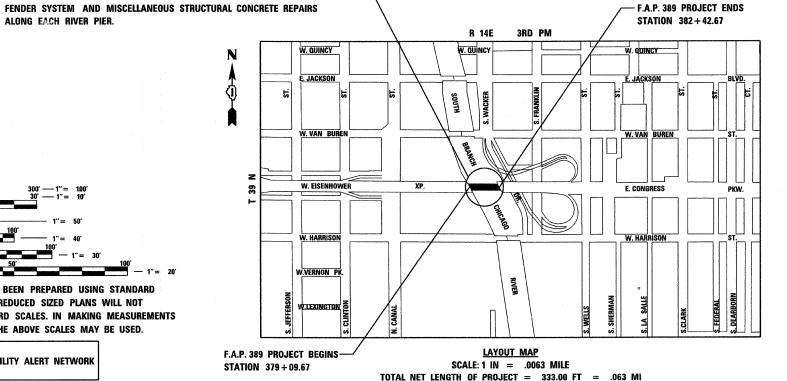
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

F.A.P. ROUTE 389 **CONGRESS PARKWAY OVER SOUTH BRANCH CHICAGO RIVER SECTION 2424.2 B-I** PIER PROTECTION CELL (DOLPHIN) REPLACEMENT **COOK COUNTY**

C-91-188-08

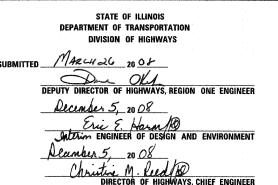
PROJECT: BRF-0389 (003)



TOTAL GROSS LENGTH OF PROJECT = 333.00 FT = .063 MI

2424.2 B-I 389 COOK 23 1 FED. ROAD DIST. NO. 1 CONTRACT NO. 60E11







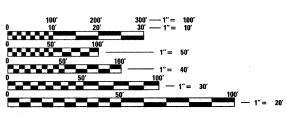
230 WEST MONROE STREET, SUITE 900 CHICAGO, ILLINOIS 60606 TEL: 312-782-8150 FAX: 312-782-1684





EXPIRES: November 30, 2008

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS



ALONG EACH RIVER PIER.

PROJECT LOCATION: THE PROJECT INCLUDES THE REMOVAL & REPLACEMENT

OF THE TWO EXISTING DOLPHINS AT THE NW & SE QUADRANTS OF THE CONGRESS PARKWAY BRIDGE (SN 016-2445) OVER THE SOUTH BRANCH OF THE CHICAGO RIVER. THE REPLACEMENT OF THE EXISTING TIMBER

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.

DIGGER - CHICAGO UTILITY ALERT NETWORK 1-312-744-7000

CONTRACT NO. 60E11

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GENERAL NOTES

- 1. ALL ELEVATIONS IN THIS PLAN SET ARE BASED ON THE CHICAGO CITY DATUM. THE CONVERSION EQUATION FROM CCD TO NAVD 88 IS: NAVD 88 ELEVATION = CCD + 579.19.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE RESPECTIVE UTILITIES OF THE CITY OF CHICAGO. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL THE CHICAGO UTILITY ALERT NETWORK (C.U.A.N.) AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRICAL. TELEPHONE, CABLE, AND GAS FACILITIES (48 HOURS NOTIFICATION IS REQUIRED). THE CONTRACTOR SHALL CONTACT THE CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT, PERMIT SECTION AT (312) 747-7893 FOR WATER AND CITY SEWER LOCATIONS.
- THE LOCATIONS OF EXISTING UTILITIES, AS SHOWN ON THE DRAWINGS, REPRESENT DATA RECEIVED FROM VARIOUS SOURCES. IT IS NOT GUARANTEED TO BE CORRECT OR ALL INCLUSIVE. THE CONTRACTOR SHALL CONDUCT HIS OWN INVESTIGATIONS INTO THE LOCATION, SIZE, DEPTH, AND NATURE OF ANY AND ALL EXISTING UTILITIES WHICH MAY IMPACT THE WORK UNDER THIS CONTRACT. ANY EXISTING UTILITIES WHICH ARE TO REMAIN IN SERVICE SHALL BE FULLY PROTECTED BY THE CONTRACTOR AND ANY DAMAGE CAUSED BY THE CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ANY AND ALL SURFACE AND UNDERGROUND UTILITIES, EVEN THOUGH THEY MAY NOT BE IDENTIFIED ON THE PLANS.
- 4. WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBIC, MARINE TRAFFIC ON THE RIVER, AND ADJOINING COMMERCIAL AND RESIDENTIAL AREAS.
- 5. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY
- ANY EXISTING DRAINAGE FACILITIES DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO COST TO IDOT.
- EXISTING PAVEMENT, SIDEWALKS, OR EMBANKMENT DAMAGED DURING CONSTRUCTION SHALL BE REPLACED OR REPAIRED AS DIRECTED BY THE ENGINEER AT NO COST TO THE DEPARTMENT.
- CDOT STAFF WILL OPERATE THE BRIDGE THROUGHOUT THE DURATION OF THIS PROJECT. COORDINATION BETWEEN THE CONTRACTOR AND BRIDGE TENDER IS REQUIRED TO PREVENT DISRUPTION TO WATERWAY TRAFFIC. ROUTINE MAINTENANCE OF THE LIFT SPAN WILL REMAIN THE RESPONSIBILITY OF CDOT AS PER THEIR CURRENT AGREEMENT WITH THE DEPARTMENT. THE CONTRACTOR WILL MAINTAIN ACCESS TO THE BRIDGE HOUSE AND MECHANICAL ROOMS AT ALL TIMES. THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SECURITY FOR THE DURATION OF THIS PROJECT. THE WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- THE CONTRACTOR SHALL SUBMIT FOUR (4) COPIES OF THE REQUIRED SHOP DRAWINGS FOR REVIEW AND APPROVAL TO THE BUREAU OF BRIDGES AND STRUCTURES, 2300 SOUTH DIRKSEN PARKWAY, SPRINGFIELD, IL 62764. AFTER APPROVAL OF THE INITIAL SUBMITTAL, THE CONTRACTOR SHALL SUBMIT ONE (1) SET OF SHOP DRAWINGS TO THE ENGINEER OF MATERIALS, 126 EAST ASH STREET, SPRINGFIELD, IL 62706, AND EIGHT (8) SETS OF SHOP DRAWINGS TO BE DISTRIBUTED TO:

DISTRICT 1 DISTRICT ENGINEER (1) FABRICATOR (1) CONTRACTOR (2) RESIDENT ENGINEER (2) DISTRICT 1 BUREAU OF MATERIALS (2)

- 11. THE CONTRACTOR SHALL HIRE A QUALIFIED ENVIRONMENTAL FIRM TO CARRY OUT SAMPLING AND ANALYSIS OF ALL EXCAVATED RIVER SEDIMENTS. ALL RIVER SEDIMENTS EXCAVATED AND DETERMINED BY THE ENVIRONMENTAL FIRM TO BE CONTAMINATED SHALL BE MANAGED OFF-SITE AS NON-SPECIAL WASTE. THE RIVER SEDIMENTS POTENTIAL CONTAMINANTS OF CONCERN ARE UNKNOWN AND SHALL BE ANALYZED ACCORDINGLY AS SPECIFIED IN THE CONTRACT SPECIAL PROVISIONS. PAYMENT FOR THIS WORK SHALL BE IN ACCORDANCE WITH ARTICLE 669 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- 12. THE CONTRACTOR SHALL COMPLY WITH ALL FLOODWAY CONDITION AT NO ADDITIONAL COST TO THE CONTRACT.

SHEET INDEX

- INDEX OF SHEETS, GENERAL NOTES, HIGHWAY STANDARDS, & COMMITMENTS SUMMARY OF QUANTITIES
- SCHEDULE OF QUANTITIES
- ALIGNMENT, TIES AND BENCHMARKS EROSION AND SEDIMENT CONTROL PLAN
- NAVIGATION LIGHTS EAST & WEST DOLPHINS
- NAVIGATION LIGHTS DETAILS
- STRUCTURAL PLANS

STATE STANDARDS

280001-04 TEMPORARY EROSION CONTROL SYSTEMS

PROJECT COMMITMENTS:

- A COE PERMITS WILL BE REQUIRED FOR THIS PROJECT AND THE CONTRACTOR SHALL FULLY COMPLY WITH ALL THE REQUIREMENTS OF THE COE/404 PERMIT. PAYMENT FOR THESE REQUIREMENTS SHALL BE INCLUDED IN THE COST OF THE VARIOUS CONTRACT PAY ITEMS.
- THE PLANNED WORK DOES NOT REQUIRE A COAST GUARD BRIDGE PERMIT AMENDMENT OR PERM IT PROCESS, BUT THE PLACEMENT OF EQUIPMENT IN THE WATERWAY, OR TEMPORARY REDUCTIONS TO NAVIGATION CLEARANCES, REQUIRES COORDINATION WITH THIS OFFICE TO ENSURE THAT NAVIGATION IS NOT IMPEDED DURING THE WORK. THIS OFFICE MUST BE CONTACTED AS SOON AS POSSIBLE, BUT NO LESS THAN 30 DAYS PRIOR TO THE START OF WORK, TO COORDINATE THE IN-WATER WORK ON THE SOUTH BRANCH OF CHICAGO RIVER. ANY WORK BARGES IN THE WATERWAY USED TO ACCOMPLISH THE WORK MAY NEED TO MOVE FOR PASSING VESSEL TRAFFIC AND/OR BE MOVED OUTSIDE OF THE NAVIGATION CHANNEL DURING NON-WORK, PLEASE CONTACT KURT CARLSON AT (216) 902-6086 TO COORDINATE THE PLANNED WORK, RECEIVE WRITTEN AUTHORIZATION FROM THE COAST GUARD, AND ISSUE NOTICES TO MARINERS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ADEQUATE PROTECTION OF ALL EXISTING SEWER LINES, SEWER STRUCTURES, MWRD DISTRICT FACILITIES IN THE GENERAL AREA, AND BENCH MONUMENTS. A 24-HOUR ACCESS SHALL BE MAINTAINED. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.



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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

INDEX OF	SHEETS A	AND GENERAL	NOTES
HIGHWAY	STANDARDS	S AND COMM	ITMENTS

INDEX OF SHEETS AND GENERAL NOTES	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HIGHWAY STANDARDS AND COMMITMENTS	389	2424.2 B-I	соок	23	2
THE CHARLES AND COMMETTALE			CONTRAC	T NO.	60E11
SCALE: NONE SHEET NO. 2 OF 7a SHEETS STA. 379+09.67 TO STA. 382+42.67	FED. R	OAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT		

LOCATION:
FAP 389-CONGRESS PARKWAY OVER THE SOUTH BRANCH OF
CHICAGO RIVER-COOK COUNTY
CITY OF CHICAGO

	SUMMARY OF QUANTITIES	URBAN 80% FEO. 20% STATE	CONSTRUCTION TYPE CODE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	X032-2A
20700220	POROUS GRANULAR EMBANKMENT	CU YD	88	88
28000400	PERIMETER EROSION BARRIER	FOOT	125	125
59000200	EPOXY CRACK INJECTION	FOOT	12	.12
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6
67100100	MOBILIZATION	L SUM	1.0	1.0
X0325303	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	33	33
X0325305	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	91	91
X0326143	SEDIMENT CONTROL SILT CURTAIN	L SUM	1,0	1.0
X8260110	NAVIGATION LIGHTING SYSTEM	L SUM	1.0	1.0
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.0	1.0
Z0076600	TRAINEES	- HOUR-		
X0326229	DOLPHINS	EACH	2	2 - 10
X0326230	REMOVE EXISTING TIMBER PILE DOLPHINS	EACH	2	2
x0326231	REMOVAL OF EXISTING TIMBER FENDERS	L SUM	1.0	1.0
X0326232	FENDER SYSTEM	L SUM	1.0	1.0

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FD	BRINCKERHOFF	r
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Ŧ	PLOT SCALE = NONE	CHECKED	-	AH	REVISED -
	PLOT DATE = 10/16/2008	DATE	-	10/15/08	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	SU	М	MAR	Y	OF	QU	ANTI	TIES			
CUEET	NO	-2	OF	70	CHE	CTC	CTA	370400	67	TΩ	ST.

 F.A.P SECTION					T	COUNTY	TOTAL	SHEET NO.	
389	389 2424.2 B-I					T	соок	23	3
							CONTRAC	T NO.	60E11
FED. R	OAD DI	ST. NO	. 1	ILLINOIS	FED.	AID	PROJECT		

SCHEDULE OF QUANTITIES

	POROUS GRANULAR EMBAN	NKMENT			CU YD
LOCATI	ON	STATION	OFFSET	UNIT	QUANTITY
NORTHWEST	DOCKWALL	378+83.60	76.25 LT	CU YD	88
				TOTAL CU YD	88
	PERIMETER EROSION BAR	RIER			FOOT
LOCATI	ON	STATION	OFFSET	UNIT	QUANTITY
NORTHWEST	DOCKWALL	378+90.00	NA	FOOT	50
SOUTHEAST	DOCKWALL	382+35.00	NA	FOOT	75
				TOTAL FOOT	125
	EPOXY CRACK INJECTION				FOOT
LOCATI	ON	STATION	OFFSET	UNIT	QUANTITY
WEST RIVER	PIER	379+72.28	NA	FOOT	12
				TOTAL FOOT	12
	SEDIMENT CONTROL SILT	CURTAIN			L. SUM
LOCATI	ON	STATION	OFFSET	UNIT	QUANTITY
WEST RIVER	PIER	379+72.28	NA	L. SUM	0.5
EAST RIVER	PIER	381+65.21	NA	L. SUM	0.5
EAST RIVER	PIER	381+65.21	NA .	L. SUM	1.0
EAST RIVER	STRUCTURAL REPAIR OF OBEPTH GREATER THAN 5	CONCRETE	NA .		
EAST RIVER	STRUCTURAL REPAIR OF (DEPTH GREATER THAN 5	CONCRETE	NA OFFSET		1.0
LOCATI	STRUCTURAL REPAIR OF (DEPTH GREATER THAN 5	CONCRETE INCHES)		TOTAL L. SUM	1.0 SQ FT
LOCATI WEST RIVER	STRUCTURAL REPAIR OF (DEPTH GREATER THAN 5 ON PIER	CONCRETE INCHES) STATION	OFFSET	TOTAL L. SUM	1.0 SQ FT QUANTITY
LOCATI WEST RIVER	STRUCTURAL REPAIR OF (DEPTH GREATER THAN 5 ON PIER	CONCRETE INCHES) STATION 379+72.28	OFFSET NA	TOTAL L. SUM UNIT SO FT	1.0 SQ FT QUANTITY O
LOCATI WEST RIVER	STRUCTURAL REPAIR OF (DEPTH GREATER THAN 5 ON PIER	CONCRETE INCHES) STATION 379+72.28 381+65.21 CONCRETE	OFFSET NA	UNIT SO FT	1.0 SQ FT QUANTITY 0 33
LOCATI WEST RIVER	STRUCTURAL REPAIR OF (DEPTH GREATER THAN 5 ON PIER PIER STRUCTURAL REPAIR OF (DEPTH EQUAL TO OR LE	CONCRETE INCHES) STATION 379+72.28 381+65.21 CONCRETE	OFFSET NA	UNIT SO FT	1.0 SQ FT QUANTITY 0 33 33
LOCATI WEST RIVER EAST RIVER LOCATI	STRUCTURAL REPAIR OF (DEPTH GREATER THAN 5 ON PIER PIER STRUCTURAL REPAIR OF (DEPTH EQUAL TO OR LE	CONCRETE INCHES) STATION 379+72.28 381+65.21 CONCRETE SS THAN 5 INCHES)	OFFSET NA NA	UNIT SQ FT SQ FT TOTAL SQ FT	1.0 SQ FT QUANTITY 0 33 33
LOCATI WEST RIVER EAST RIVER LOCATI WEST RIVER	STRUCTURAL REPAIR OF (DEPTH GREATER THAN 5 ON PIER PIER STRUCTURAL REPAIR OF (DEPTH EQUAL TO OR LE	CONCRETE INCHES) STATION 379+72.28 381+65.21 CONCRETE SS THAN 5 INCHES) STATION	OFFSET NA NA OFFSET	UNIT SQ FT SQ FT TOTAL SQ FT	1.0 SQ FT QUANTITY 0 33 33 SQ FT QUANTITY
LOCATI WEST RIVER EAST RIVER LOCATI WEST RIVER	STRUCTURAL REPAIR OF (DEPTH GREATER THAN 5 ON PIER PIER STRUCTURAL REPAIR OF (DEPTH EQUAL TO OR LE	CONCRETE INCHES) STATION 379+72.28 381+65.21 CONCRETE SS THAN 5 INCHES) STATION 379+72.28	OFFSET NA NA OFFSET NA	UNIT SQ FT TOTAL SQ FT UNIT SQ FT	1.0 SQ FT QUANTITY 0 33 33 SQ FT QUANTITY 49
LOCATI WEST RIVER EAST RIVER LOCATI WEST RIVER	STRUCTURAL REPAIR OF (DEPTH GREATER THAN 5 ON PIER PIER STRUCTURAL REPAIR OF (DEPTH EQUAL TO OR LE	CONCRETE INCHES) STATION 379+72.28 381+65.21 CONCRETE SS THAN 5 INCHES) STATION 379+72.28 381+65.21	OFFSET NA NA OFFSET NA	UNIT SQ FT TOTAL SQ FT UNIT SQ FT SQ FT SQ FT	1.0 SQ FT QUANTITY 0 33 33 SQ FT QUANTITY 49 42
LOCATI WEST RIVER EAST RIVER LOCATI WEST RIVER	STRUCTURAL REPAIR OF (DEPTH GREATER THAN 5 ON PIER PIER STRUCTURAL REPAIR OF (DEPTH EQUAL TO OR LE ON PIER PIER PIER	CONCRETE INCHES) STATION 379+72.28 381+65.21 CONCRETE SS THAN 5 INCHES) STATION 379+72.28 381+65.21	OFFSET NA NA OFFSET NA	UNIT SQ FT TOTAL SQ FT UNIT SQ FT SQ FT SQ FT	1.0 SQ FT QUANTITY 0 33 33 SQ FT QUANTITY 49 42 91 L. SUM
LOCATI WEST RIVER LOCATI WEST RIVER EAST RIVER	STRUCTURAL REPAIR OF (DEPTH GREATER THAN 5 ON PIER STRUCTURAL REPAIR OF (DEPTH EQUAL TO OR LE ON PIER PIER NAVIGATION LIGHTING SY	CONCRETE INCHES) STATION 379+72.28 381+65.21 CONCRETE SS THAN 5 INCHES) STATION 379+72.28 381+65.21	OFFSET NA OFFSET NA NA	UNIT SQ FT TOTAL SQ FT UNIT SQ FT TOTAL SQ FT TOTAL SQ FT	1.0 SQ FT QUANTITY 0 33 33 SQ FT QUANTITY 49 42 91
WEST RIVER EAST RIVER LOCATI WEST RIVER EAST RIVER	STRUCTURAL REPAIR OF (DEPTH GREATER THAN 5 ON PIER PIER STRUCTURAL REPAIR OF (DEPTH EQUAL TO OR LE ON PIER PIER PIER PIER PIER NAVIGATION LIGHTING SYON DOLPHIN	CONCRETE INCHES) STATION 379+72.28 381+65.21 CONCRETE SS THAN 5 INCHES) STATION 379+72.28 381+65.21	OFFSET NA NA OFFSET NA NA OFFSET	UNIT SQ FT TOTAL SQ FT UNIT SQ FT TOTAL SQ FT TOTAL SQ FT	1.0 SQ FT QUANTITY 0 33 SQ FT QUANTITY 49 42 91 L. SUM QUANTITY

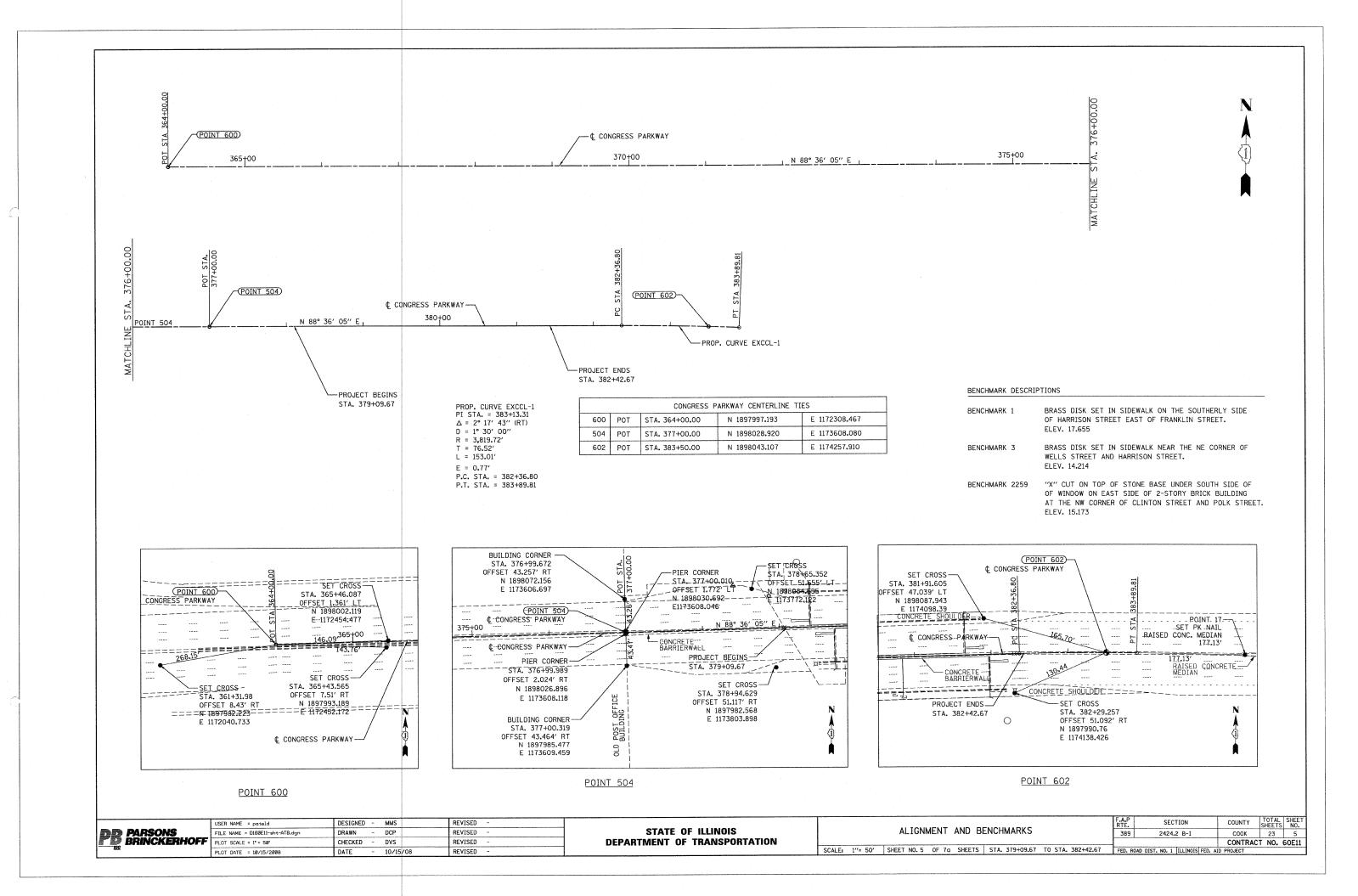
	DOLPHINS				EACH
LOCATI	ION	STATION	OFFSET	UNIT	QUANTITY
SOUTHEAST	DOLPHIN	382+18.13	86.50 RT	EACH	1
NORTHWEST	DOLPHIN	379+24.16	86.50 LT	EACH	1
				TOTAL EACH	2
	REMOVE EXISITNG TIMBER PIL	E DOLPHINS			EACH
LOCATI	ION	STATION	OFFSET	UNIT	QUANTITY
SOUTHEAST	DOLPHIN	382+18.13	86.50 RT	EACH	1
NORTHWEST	DOLPHIN	379+24.16	86.50 LT	EACH	1
				TOTAL EACH	2
-	REMOVAL OF EXISTING TIMBER	R FENDERS			L. SUM
LOCATI	ION	STATION	OFFSET	UNIT	QUANTITY
WEST RIVER	R PIER	379+72.28	NA	L. SUM	0.5
EAST RIVER	R PIER	381+65.21	NA	L. SUM	0.5
				TOTAL L. SUM	1.0
	FENDER SYSTEM				L. SUM
LOCATI	ION	STATION	OFFSET	UNIT	QUANTITY
WEST RIVER	R PIER	379+72.28	NA	L. SUM	0.5
EAST RIVER	R PIER	381+65.21	NA	L. SUM	0.5
				TOTAL L. SUM	1.0

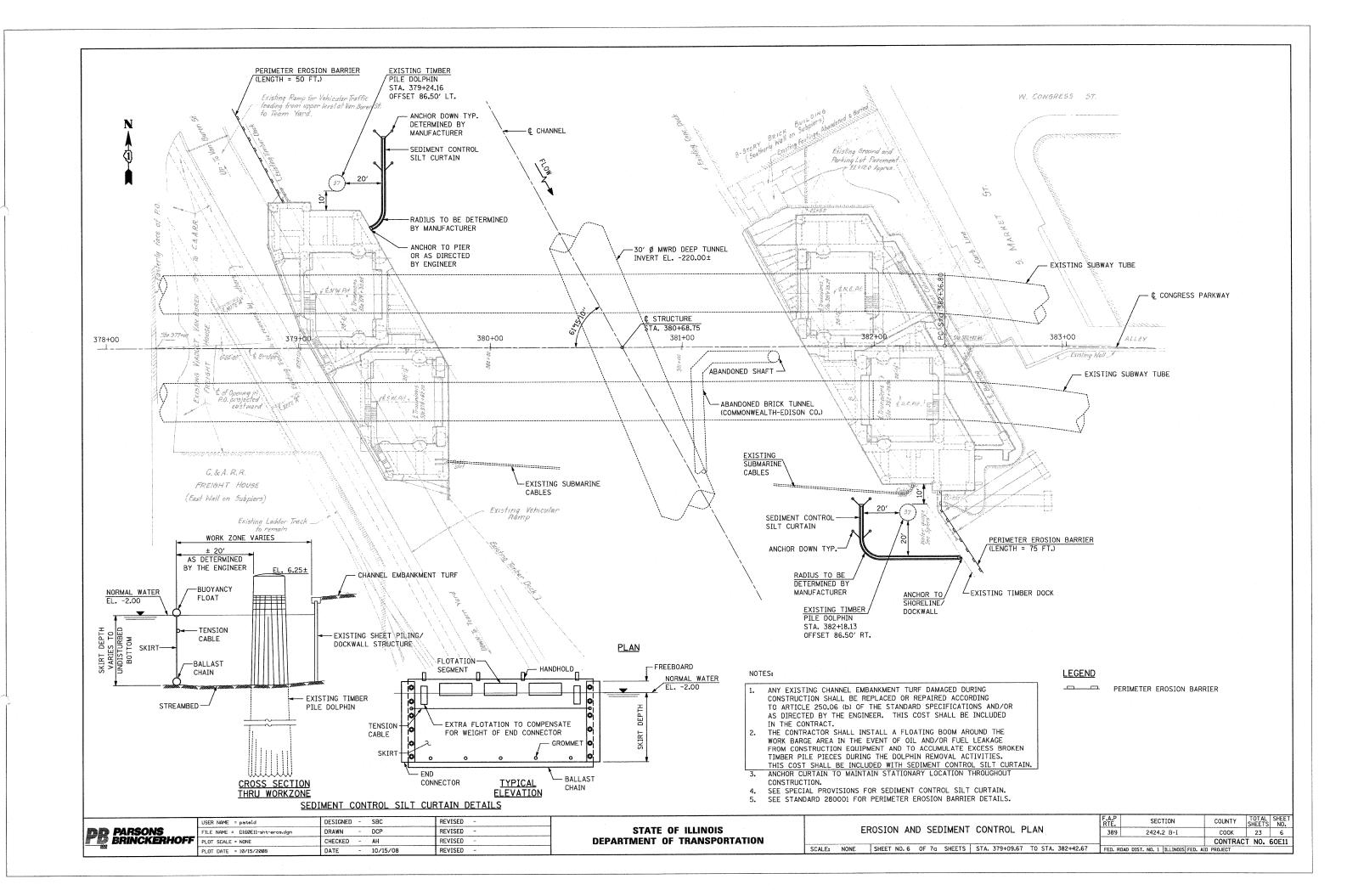


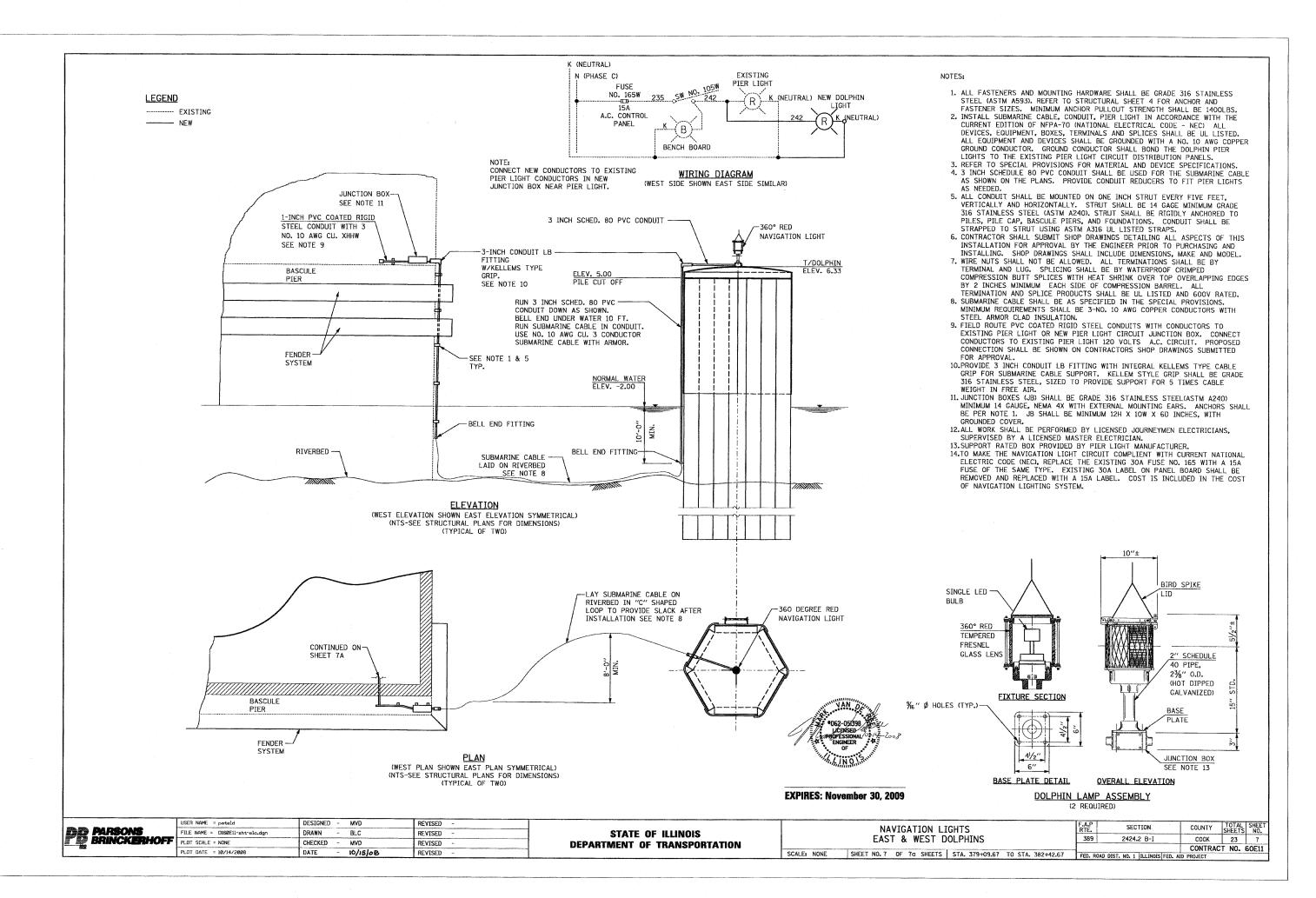
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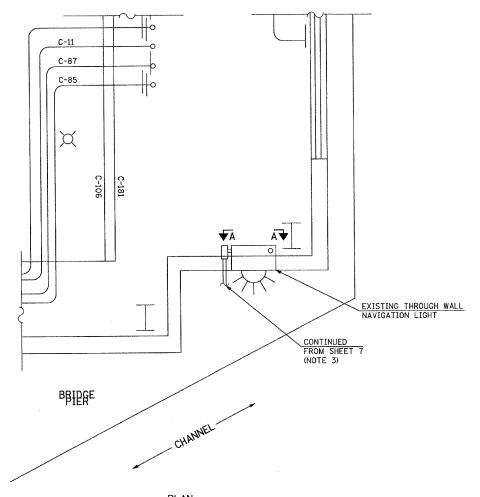
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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	SCHEDULE OF QU	ANTITLES		389	2424.2 B-I	COOK	23	4
				CONTRAC	T NO.	60E11		
SCALE: NONE	SHEET NO. 4 OF 7a SHEETS	FED. ROA	D DIST. NO. 1 ILLINOIS FED. AI	D PROJECT				

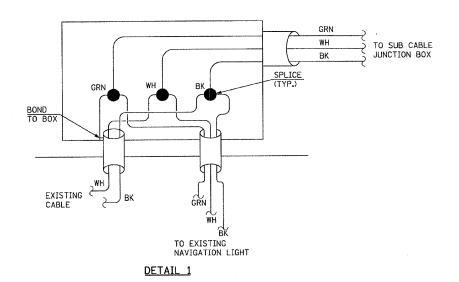


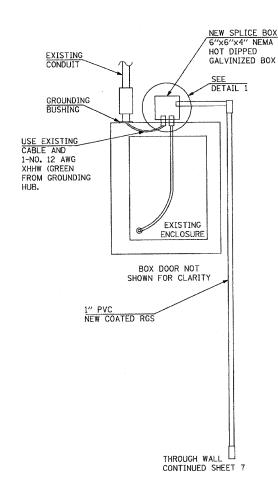






(EXISTING INSTALLATION WITH NEW INTERFACING CABLE AND CONDUIT)





SECTION A-A (THROUGH WALL NAVIGATION LIGHT)



EXPIRES: November 30, 2009

NOTES:

- USING A MULTIMETER, MEASURE RESISTANCE FROM ELECTRICAL SERVICE ENTRANCE GROUND TO THE EXISTING CONDUIT WHERE IT CONNECTS TO THE "THROUGH WALL" NAVIGATION LIGHT.
- 2d. IF THE CONDUIT RESISTANCE MEASUREMENT FROM NOTE 1 IS 1 OHM OR LESS; THEN, INSTALL A GROUNDING HUB OR GROUNDING BUSHING ON THE END OF THE EXISTING CONDUIT INSIDE THE "THROUGH WALL" NAVIGATION LIGHT ENCLOSURE AND ROUTE A NEW GREEN NO. 10 AWG COPPER XHHW INSULATED GROUND CONDUCTOR FROM THE HUB OR BUSHING TO INSIDE THE NEW SPLICE BOX INSTALLED ABOVE THE "THROUGH WALL" NAVIGATION LIGHT ENCLOSURE. BOND THE GROUND CONDUCTOR TO THE NEW SPLICE BOX.
- 2b. IF THE CONDUIT RESISTANCE TO GROUND FROM NOTE 1 CANNOT BE REDUCED TO 1 OHM OR LESS; THEN, PROCEED WITH THE INSTALLATION IN NOTE 2A AND RUN A NEW GREEN NO. 10 AWG COPPER XHHW INSULATED GROUND CONDUCTOR FROM THE CONDUIT GROUNDING HUB OR BUSHING BACK TO THE BENCH BOARD AND CONNECT TO A SOLID GROUND THERE. BOND THE NEW GROUND CONDUCTORS TO THE CONDUIT GROUNDING HUB OR BUSHING AND NEW SPLICE BOX. WORK UNDER THIS ITEM THAT IS ADDITIONAL TO THE NOTE 2A INSTALLATION WILL BE CONSIDERED "EXTRA WORK" AND WILL BE PAID SEPARATELY.
- PERFORM INSTALLATION OF DOLPHIN LIGHT WITH CONDUIT, SUB CABLE, BOXES AND DEVICES AS DETAILED ON SHEET 7, COMPLETE TO JUNCTION BOX ON PIER CAP.
- 4. CORE DRILL WALL FOR 1" PVC COATED RGS (RIGID GALVANIZED STEEL) CONDUIT. GROUT CLOSED AFTER CONDUIT INSTALLATION. CARE MUST ME TAKEN NOT TO DAMAGE WALL PANELS. ANY DAMAGED WALL PANEL SHALL BE REPLACED IN-KIND AT CONTRACTOR" S EXPENSE.
- 5. ROUTE 1", PVC COATED RIGID GALVANIZED STEEL CONDUIT ON TOP OF PIER CAP, THROUGH WALL SURROUNDING MACHINERY AREA AT DOCK LEVEL, TO 6" X 6" X 4" HOT DIPPED GALVANIZED SPLICE BOX MOUNTED ABOVE ACCESS BOX FOR THE EXISTING.
- 6. CONNECT 2-1" PVC COATED RGS NIPPLES FROM 6" X 6" X 4" SPLICE BOX TO PIER LIGHT ENCLOSURE FLANGE.
- 7. INSTALL NEW DOLPHIN LIGHT CONDUCTORS PER THE NOTES ON SHEET 7.
- 8. INSTALL A 12-3 SOWA CABLE FROM THE SPLICE BOX TO THE EXISTING PIER LIGHT.
- SPLICE EXISTING NAVIGATION LIGHT CONDUCTORS TO NEW DOLPHIN LIGHT AND SOWA CABLE AS SHOWN IN DETAIL 1.
- 10. THE CONTRACTOR SHALL FURNISH ALL ITEMS TO PROVIDE COMPLETE FUNCTIONAL DOLPHIN NAVIGATION LIGHT. THESE ITEMS SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING ITEMS. ITEMS LISTED ARE FOR EAST AND WEST DOLPHIN INSTALLATIONS.
 - d. 2 EA. NAVIGATION LIGHT FIXTURES WITH 360 DEGREE RED LENS AND LED LAMP PER THE SPECIFICATIONS.
 - b. 2 EA. SUBMARINE CABLE APPROXIMATELY 100 FEET IN LENGTH PER THE SPECIFICATION.
 - c. 90 LINEAR FEET OF 3 INCH PVC SCHEDULE 80 CONDUITS.
 - d. 4 EA. THREE INCH LB CONDUIT FITTINGS.
 - e. 4 EA. KELLEM TYPE GRIPS
 - f. 2 EA. 12 INCH HEIGHT X 10 INCH WIDTH X 6 INCH DEPTH, 316 STAINLESS STEEL, NEMA 4X, JUNCTION BOX.
 - g. 80 LINEAR FEET OF ONE INCH PVC COATED RIGID GALVANIZED STEEL CONDUIT.
 - h. 2 EA. 6" HEIGHT X 6" WIDE X 4" DEPTH, NEMA 12, HOT DIPPED GALVANIZED STEEL SPLICE BOX, PAINTED GRAY.
 - 1. 10 LINEAR FEET OF 3 CONDUCTOR NO. 12 AWG "SOWA" FLEXIBLE CABLE.
 - j. 300 LINEAR FEET OF NO. 10 AWG CONDUCTOR WITH TYPE XHHW INSULATION.
 - K. AS REQUIRED 1 INCH PVC COATED CONDUIT FITTINGS, LENGTH AS REQUIRED 316 STAINLESS STEEL STRUT AND ASSOCIATED CONDUIT SUPPORT HARDWARE. ALL LENGTHS ARE APPROXIMATE THE CONTRACTOR SHALL VERIFY ALL LENGTHS BEFORE CONSTRUCTION.
 - 1. 1-15AMP, 120V d.c. FUSE AND LABEL.
- 11. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND VERIFY EXISTING FIELD CONDITIONS PRIOR TO ORDERING MATERIALS AND STAGING CONSTRUCTION. ANY QUANTITY ADJUSTMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND MEET HIS/HER APPROVAL. VARIATIONS IN QUANTITIES SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION. HOWEVER THE CONTRACTOR WILL BE PAID AT THE CONTRACT UNIT PRICE FOR THE WORK COMPLETED.

PARSONS
BRINCKERHOFF
PLOT SCALE = NOME

 USER NAME
 = petold
 DESIGNED
 - MVD
 REVISED

 FILE NAME
 = DISBELI-sht-elc-7o.dgn
 DRAWN
 - BLC
 REVISED

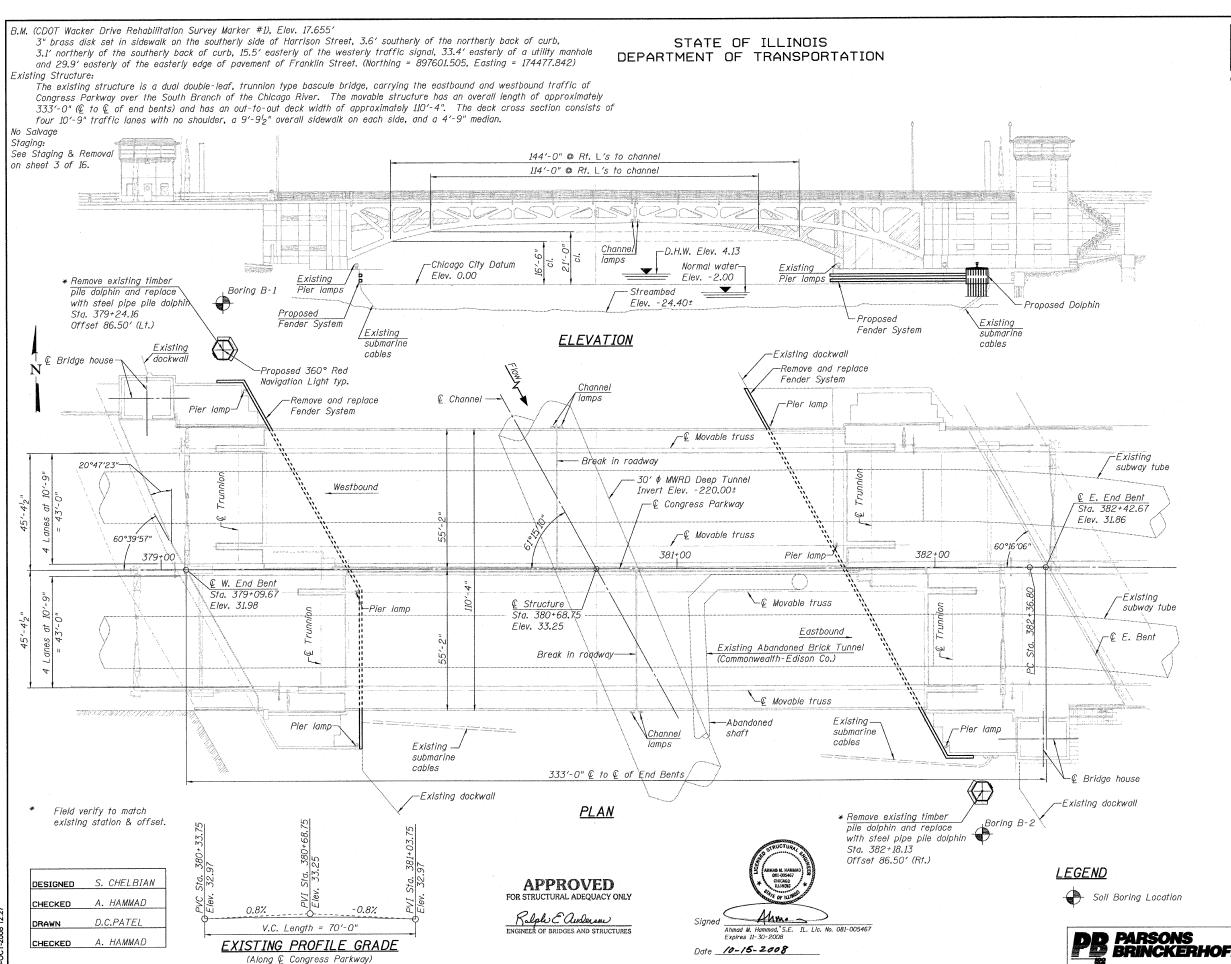
 PLOT SCALE
 = NONE
 CHECKED
 - MVD
 REVISED

 PLOT DATE
 = 19/14/2898
 DATE
 - Vo/15/08
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NAVIGATION LIGHT DETAILS

SCALE: NONE | SHEET NO. 7g OF 7g SHEETS | STA. 379+09.67 TO STA. 382+42.67 | FED. ROAD DIST. NO. 1 | IL



ROUTE NO. TOTAL SHEET SHEET NO. / F.A.P. 389 2424.2 соок 23 B-I

16 SHEETS

Contract No. 60E11

SCOPE OF WORK

Remove the existing timber fender system and replace with a self-restoring rubber type. Remove existing timber pile dolphins at the southeast and northwest ends and replace with pipe piles dolphins at the same location.

Repair outside face of the river piers with epoxy crack injection and structural repair of concrete. Repair the eroded section behind the northwest dock wall at the west bridge house.

Remove and replace pier dock ladders. Install one navigation light at each new dolphin.

DESIGN SPECIFICATIONS

2002 AASHTO

<u>DESIGN STRESSES</u>

FIELD UNITS

f'c = 3,500 psi

fy = 60,000 psi (reinforcement)

fy = 35,000 psi ASTM A 252, GR. 2 (Pipe piles) fy = 36,000 psi (AASHTO M 270, GR. 36)

SEISMIC DATA

Seismic Performance Category (SPC) = A Bedrock Acceleration Coefficient (A) = 0.032g Site Coefficient (S) = 1.0

EXISTING CURVE DATA

 $\Delta = 2^{\circ}17'43'' (Rt.)$

D = 1°30′00" T = 76.52'

L = 153.02'E = 0.77'

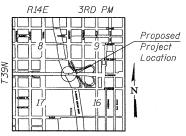
R = 3,819.72'

P.C. = Sta. 382+36.80

P.T. = Sta. 383+89.82 P.I. = Sta. 383+13.32

An abbreviated Hydraulic Report was made and no further hydraulic study is needed.

All existing channel and pier lamps remain in place.



LOCATION SKETCH

GENERAL PLAN & ELEVATION CONGRESS PARKWAY OVER <u>SOUTH BRANCH CHICAGO RIVER</u> F.A.P. RT. 389 - SEC. 2424.2 B-1

COOK COUNTY STATION 380+68.75 STRUCTURE NO. 016-2445

ROUTE NO.	SECTION	cou	INTY	TOTAL SHEETS	SHEET NO.	SHE	ET NO. 2
F.A.P. 389	2424.2 B-I	cc	соок		9	16	SHEETS
FED. ROAD DIST	. NO. 7	ILLINDIS	PED. AID PRI	JECT-			

Contract No. 60E11

GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to routine 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 based upon the unit price bid for the work.

Concrete repair areas are based on the Underwater Inspection Report dated April 28, 2005. The Engineer shall approve all concrete repair areas and crack sealing prior to commencement of work. Any areas not shown on the plans shall be repaired if directed by the Engineer.

INDEX OF SHEET

General Plan & Elevation General Data Removal & Staging Plan Dolphin Plan & Details 5-6 Fender System
7 Miscellaneous Details East River Pier Repairs West River Pier Repairs West Dock Wall Repairs 11-12 Soil Boring Logs 13-16 Existing Plans

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Porous Granular Embankment	Cu. Yd.	-	88	88
Epoxy Crack Injection	Foot	-	12	12
Structural Repair of Concrete (Depth Equal To Or Less Than 5 Inches)	Sq. Ft.	-	91	91
Structural Repair of Concrete (Depth Greater Than 5 Inches)	Sq. Ft.	-	33	33
Removal of Existing Timber Fenders	L. Sum	-	1.0	1.0
Fender System	L. Sum	-	1.0	1.0
Remove Existing Timber Pile Dolphins	Each	-	. 2	2
Dolphins	Each	-	2	2
Navigation Lighting System	L. Sum	-	1.0	1.0

DESIGNED S. CHELBIAN A. HAMMAD S. CHELBIAN A. HAMMAD CHECKED

<u>GENERAL DATA</u> <u>F.A.P. RT. 389 - SEC. 2424.2 B-I</u> COOK COUNTY STATION 380+68.75 STRUCTURE NO. 016-2445

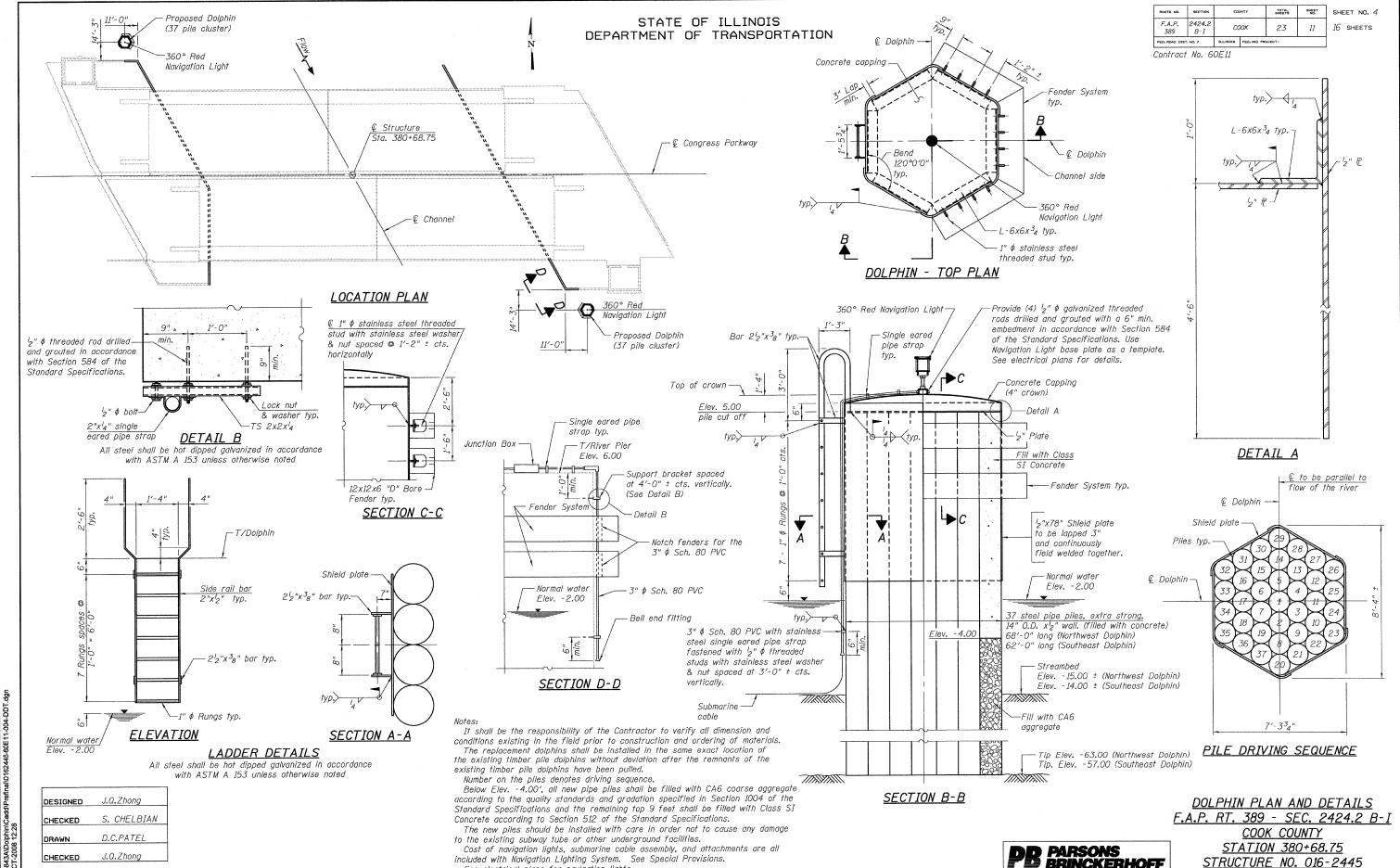
the channel at a time using staged construction. See stage construction sequence.

BRINCKERHOFF

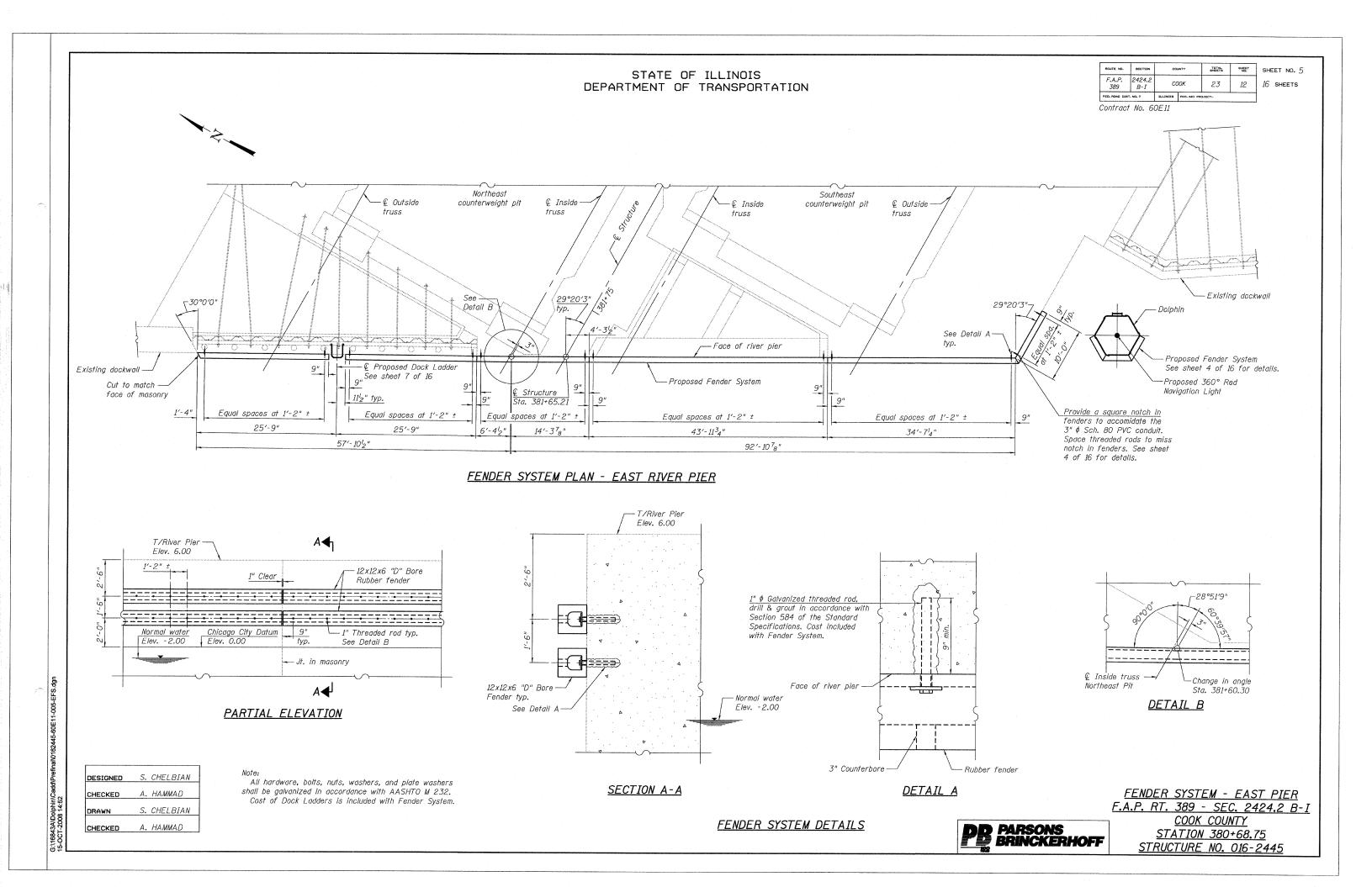
STRUCTURE NO. 016-2445

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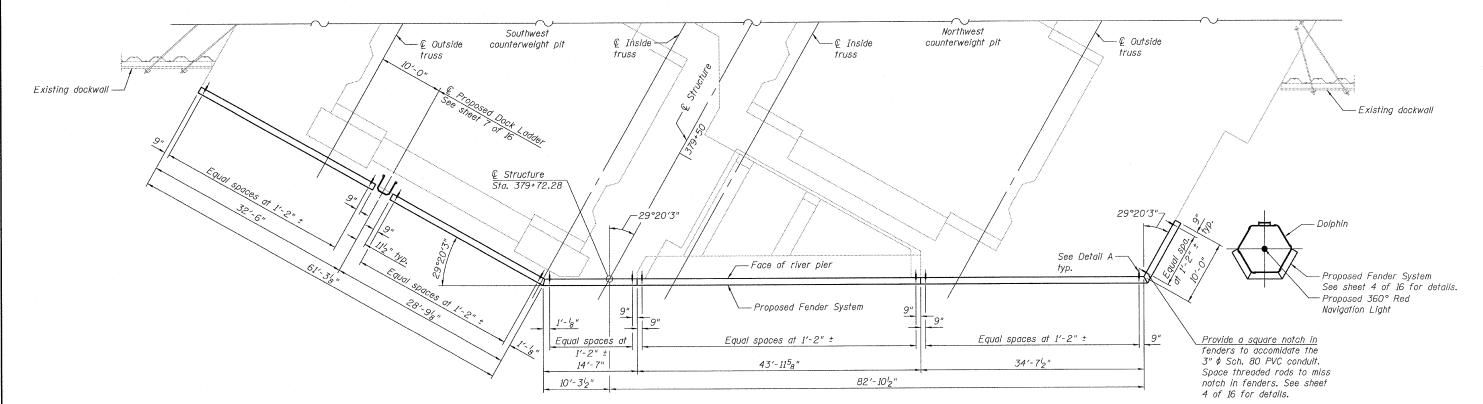


See electrical plans for navigation lights.

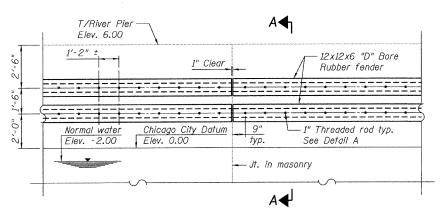


ROUTE NO.	SECTION	cor	NTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 6
F.A.P. 389	2424.2 B-I	cc	ОК	23	13	16 SHEETS
FED. RDAD DIST. NO. 7		ILLINOIS FED. AID PR		DJECT-		

Contract No. 60E11



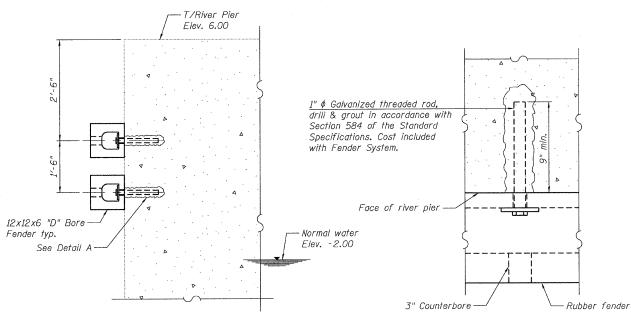
FENDER SYSTEM PLAN - WEST RIVER PIER



PARTIAL ELEVATION

•			
			12 Fe
			, ,

Note: All hardware, bolts, nuts, washers, and plate washers shall be galvanized in accordance with AASHTO M 232. Cost of Dock Ladders is included with Fender System.



SECTION A-A

<u>DETAIL A</u>

PARSONS

FENDER SYSTEM - WEST PIER
F.A.P. RT. 389 - SEC. 2424.2 B-I

COOK COUNTY

STATION 380+68.75

STRUCTURE NO. 016-2445

FENDER SYSTEM DETAILS

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DESIGNED S. CHELBIAN

CHECKED

A. HAMMAD

A. HAMMAD

Contract No. 60E11

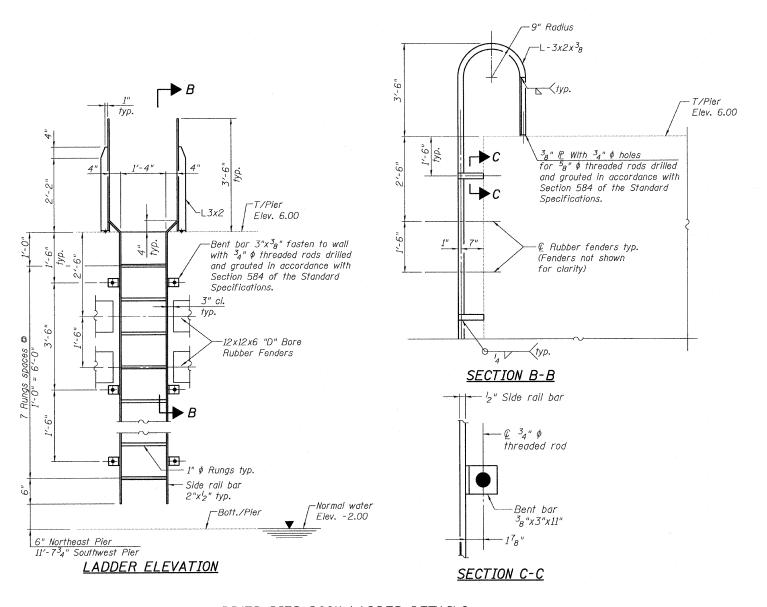
BILL OF MATERIAL

Item	Unit	Total
Removal of Existing Timber Fenders	L. Sum	1.0
Fender System	L. Sum	1.0
Remove Existing Timber Pile Dolphins	Each	2
Dolphins	Each	2
Navigation Lighting System	L. Sum	1.0

ESTIMATED QUANTITIES

Item	Unit	Total
Removal of Existing Timber Fenders	:	
Dock Ladder Removal	Each	2
Timber Fender Removal	Foot	611
Remove Existing Timber Pile Dolphins		
Steel Jacket Removal	Pound	9,432
Bituminous Concrete Capping Removal	Cu. Yd.	5.2
12" 🛊 Timber Pile Removal	Foot	4,218
Fender System		
Dock Ladders	Each	2
Rubber Fenders	Foot	643
Dolphins		
Concrete Filled Metal Shell Piles, 14" ϕ	Foot	4,810
Steel Jackets	Pound	11,282
Concrete Capping	Cu. Yd.	4.0
Rubber Fenders	Foot	50
Ship Ladders	Each	2

Not to be included in the Bill of Material. This estimate is for information only and includes all items required to quantify the removal and replacement of both dolphins and the fender system on both river piers.



RIVER PIER DOCK LADDER DETAILS

All steel shall be hot dipped galvanized in accordance with ASTM A 153 unless otherwise noted

DESIGNED S. CHELBIAN A. HAMMAD D.C.PATEL DRAWN A. HAMMAD CHECKED

DD PARSONS BRINCKERHOFF

MISCELLANEOUS DETAILS F.A.P. RT. 389 - SEC. 2424.2 B-I COOK COUNTY STATION 380+68.75 STRUCTURE NO. 016-2445

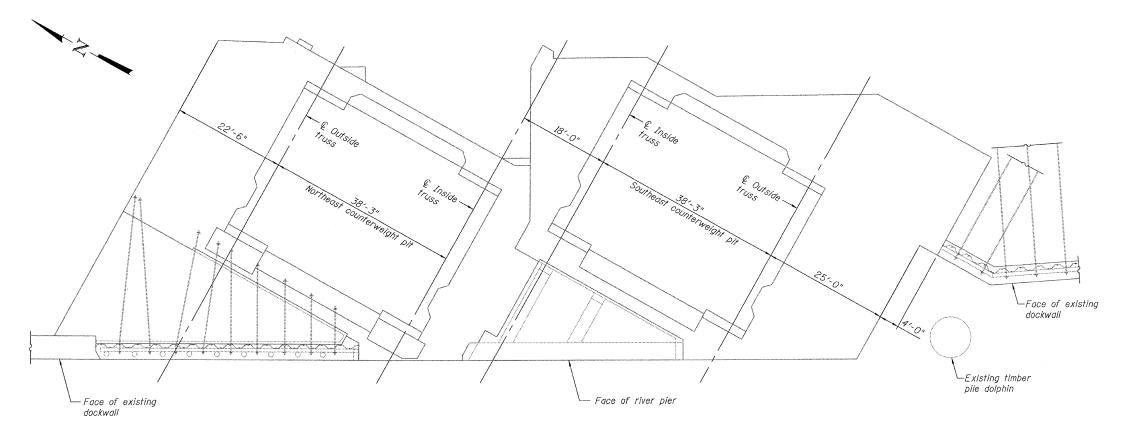


Contract No. 60E11

Existing reinforcing bars that have been cut and/or damaged during repair operations shall be supplemented by new in kind reinforcing bars. New bars shall be lapped a minimum of 32 bar diameters to existing bars. A mechanical bar splicer shall be used when it is not feasible to provide the minimum bar lap. No welding of bars shall be performed. See Special Provisions for Structural Repair of Concrete.

For below water line concrete repairs utilizing formwork, the concrete mix shall be placed by pumping through ports, which shall be installed at the bottom of each formed repair area.

Areas are in square feet (sq. ft.).



<u>PLAN</u>

162'-658'

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth equal to or less than 5")	Sq. Ft.	42.0
Structural Repair of Concrete (Depth greater than 5")	Sq. Ft.	33.0

LEGEND



Structural Repair of Concrete Depth equal to or less than 5"



Structural Repair of Concrete Depth greater than 5"

	25′-8 ^l 4"	43′-8"	20'-734"	43'-10'2"	28'-8'8"	
		ℚ Inside truss – √ 3′ x 6′	-3' x 5'	© Inside truss	- © Outside truss	Existing timber pile dolphin
3' x 2'-				736' X 1'		Normal water Elev2.00
				Streambed—		
	2					
	_Existin	g steel Existing timber pile typ.				

ELEVATION

DESIGNED S. CHELBIAN A. HAMMAD CHECKED D.C.PATEL A. HAMMAD CHECKED

PP PARSONS BRINCKERHOFF

EAST RIVER PIER REPAIRS F.A.P. RT. 389 - SEC. 2424.2 B-I COOK COUNTY STATION 380+68.75 STRUCTURE NO. 016-2445

ROUTE NO.	SECTION	COUNTY		TOTAL SHEETS	SHEET NO.	SHE	ET NO. 9
F.A.P. 389	2424.2 B-I	cc	ок	23	16	16	SHEETS
FED, ROAD DIST, NO. 7		ILLINOIS FED. AID PROJECT-					

Contract No. 60E11

Notes:

-Face of existing

dockwall

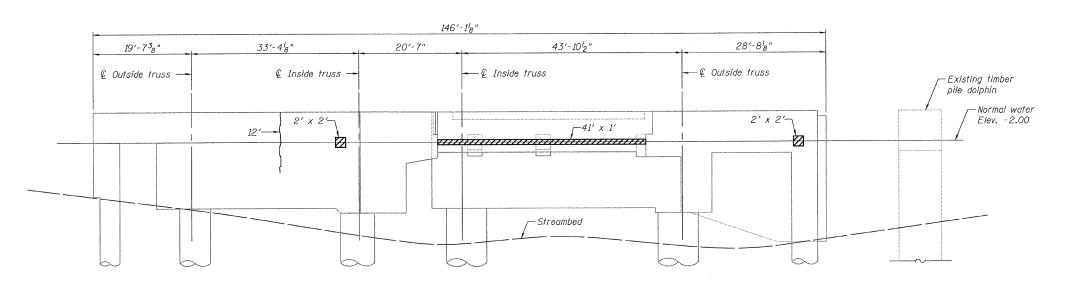
—Existing timber pile dolphin Existing reinforcing bars that have been cut and/or damaged during repair operations shall be supplemented by new in kind reinforcing bars. New bars shall be lapped a minimum of 32 bar diameters to existing bars. A mechanical bar splicer shall be used when it is not feasible to provide the minimum bar lap. No welding of bars shall be performed. See Special Provisions for Structural Repair of Concrete.

For below water line concrete repairs utilizing formwork, the concrete mix shall be placed by pumping through ports, which shall be installed at the bottom of each formed repair area.

Areas are in square feet (sq. ft.).

Crack widths shown to be repaired are l_8 " $\pm {}^l_{16}$ " unless otherwise noted.

<u>PLAN</u>



– Face of river pier

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth equal to or less than 5")	Sq. Ft.	49.0
Epoxy Crack Injection	Foot	12

LEGEND

Structural Repair of Concrete Depth equal to or less than 5"

Epoxy Crack Injection

ELEVATION (Looking West)

DD PARSONS BRINCKERHOFF

WEST RIVER PIER REPAIRS
F.A.P. RT. 389 - SEC. 2424.2 B-I

COOK COUNTY

STATION 380+68.75

STRUCTURE NO. 016-2445

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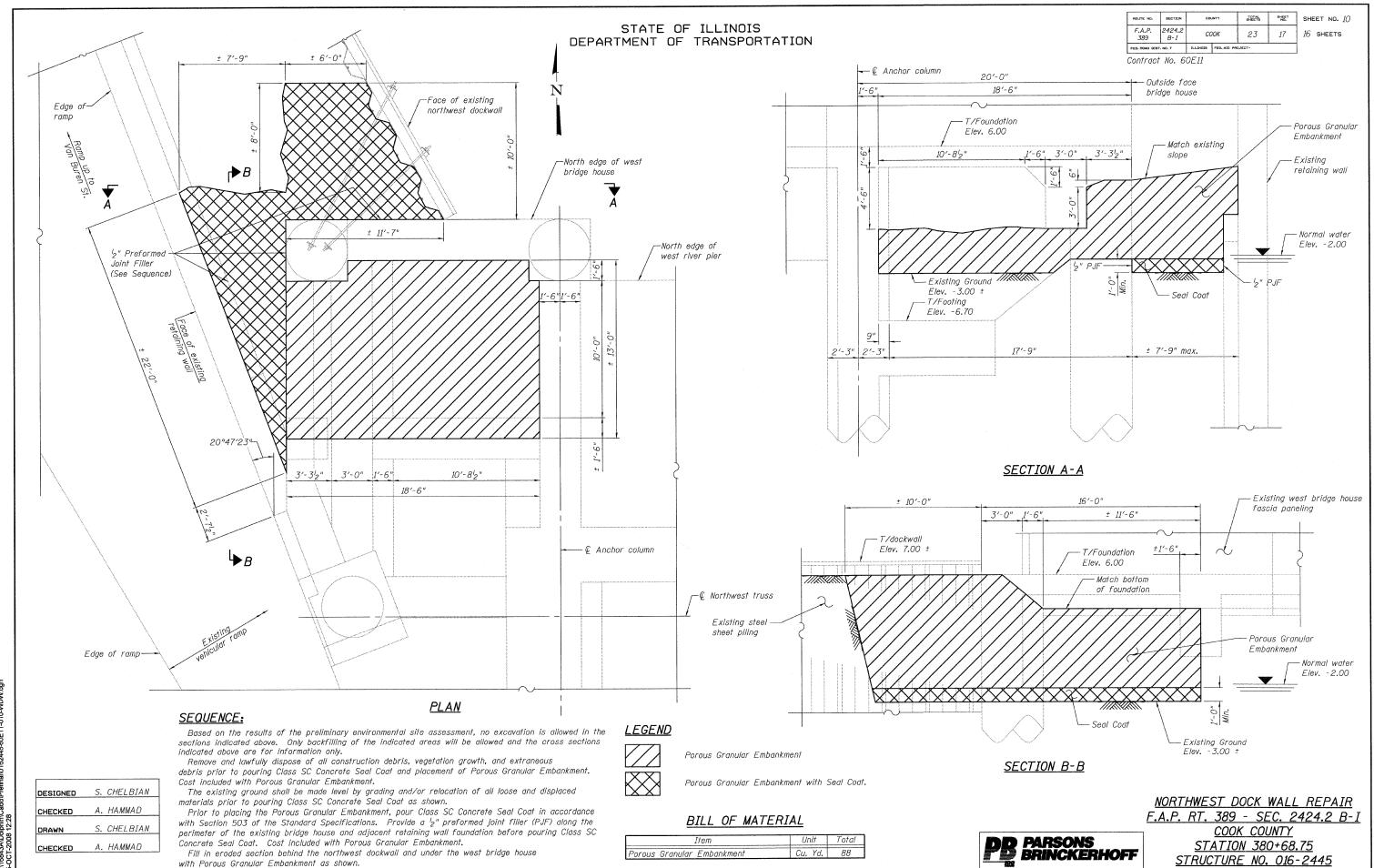
A. HAMMAD

D.C.PATEL

A. HAMMAD

Face of existing-

dockwall



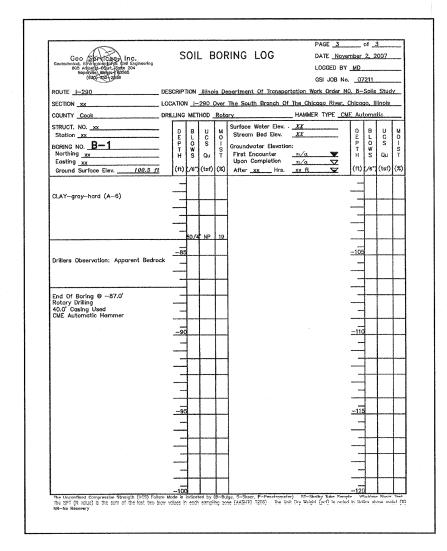
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Contract No. 60E11

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					The South Branch Of The Chicago River						
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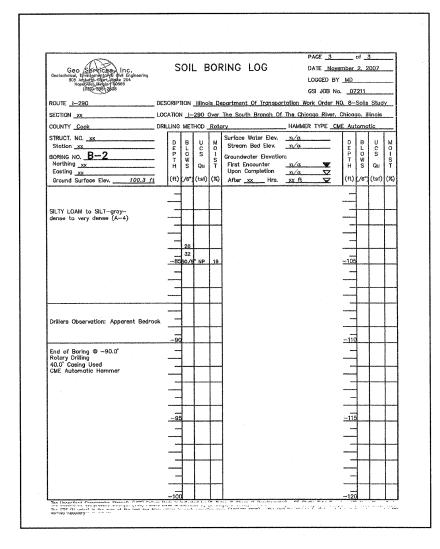
SOIL BORING LOGS F.A.P. RT. 389 - SEC. 2424.2 B-I COOK COUNTY STATION 380+68.75 STRUCTURE NO. 016-2445

ROUTE NO.	SECTION	COL	INTY	TOTAL SHEETS	SHEET NO.	SHE	ET NO. 12
F.A.P. 389	2424.2 B-I	cc	ОСК	23	19	16	SHEETS
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Contract No. 60E11

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<u>SOIL BORING LOGS</u> F.A.P. RT. 389 - SEC. 2424.2 B-I COOK COUNTY STATION 380+68.75

STRUCTURE NO. 016-2445

SHEET NO. 13 STATE OF ILLINOIS F.A.P. 2424.2 389 B-1 23 20 16 SHEETS DEPARTMENT OF TRANSPORTATION FEO. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT Contract No. 60E11 REVISIONS Relocation of Light poles EUN 3-6-50 Fence; added, H. J. E. Contract G.S. 6-13-52 Light pole brackets changed. Affecte Elec Contract only 6 M C 15-10-Grade Down 0.8% Grade Down 0.8% Building Com: 7. 16'-6" Clearance > 114'-0" at right angle to channel 144'-0" at right angle to channel Pier Lamp | Elevation + 60' City Datum 7 ELEVATION £ Movable Truss 19-416 -WEST BOUND DRIVE 31:72 W. CONGRESS Corb STREET EAST BOUND DRIVE ---Railing Wire Sence "A" See Drwig No 17672 EXISTING BUILDING Comments in

SECTIONAL ELEVATION

FOR INFORMATION ONLY

Four-leaf Trunnion Bascule Bridge WEST CONGRESS STREET

SOUTH BRANCH—CHICAGO RIVER
SUPERSTRUCTURE — HOUSES & ENCLOSURES
ELECTRICAL EQUIPMENT

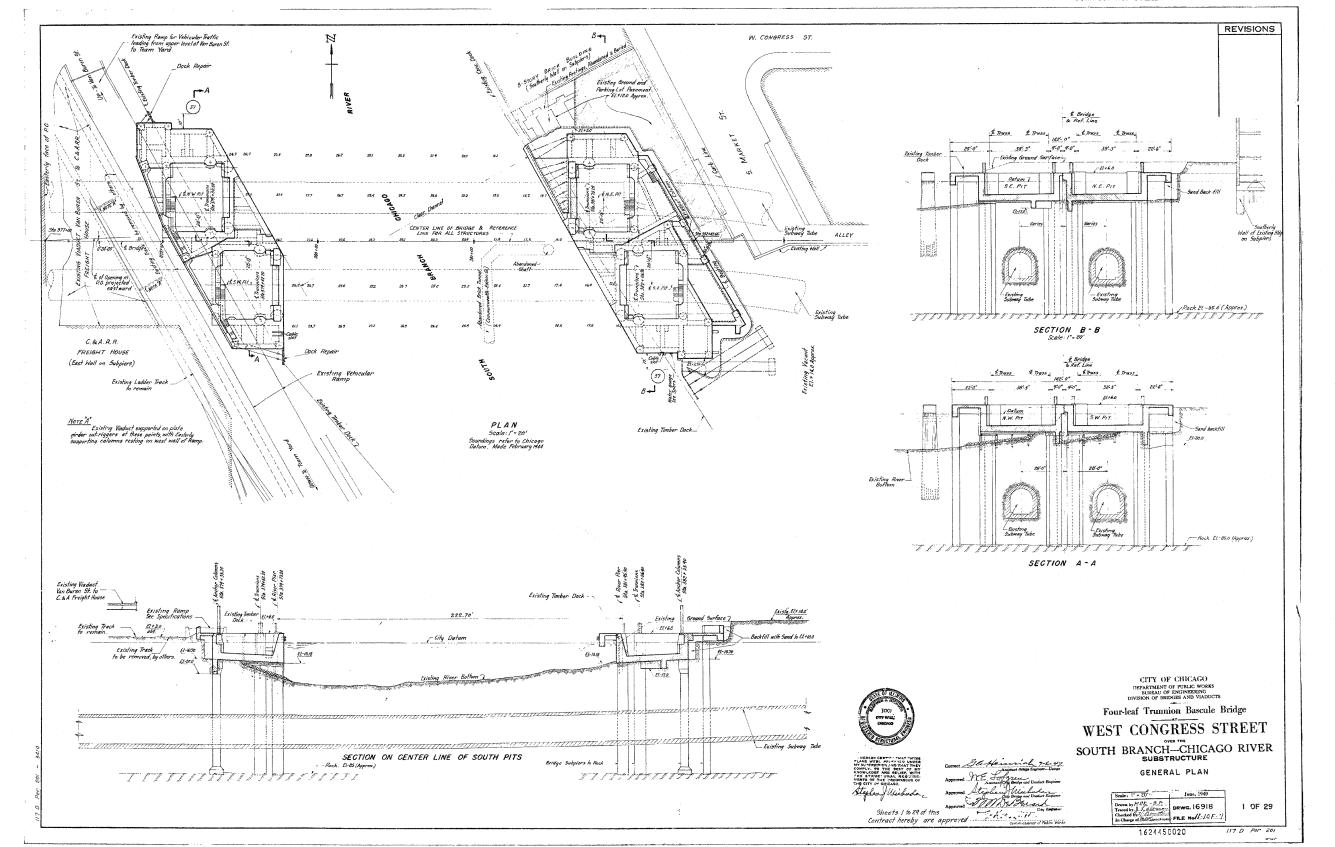
GENERAL PLAN AND ELEVATION EL 1 OF 16

| Substitute | Sub

| AUGUST 1990 | SUP | SU

ROUTE NO.	SECTION	cou	INTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 14					
F.A.P. 389	2424.2 B-I	CC	ООК	23	21	16	SHEETS				
ED. ROAD DIST	. ND. 7	ILLINOIS	FED. ALD PRI	JECT-	·						

Contract No. 60E11

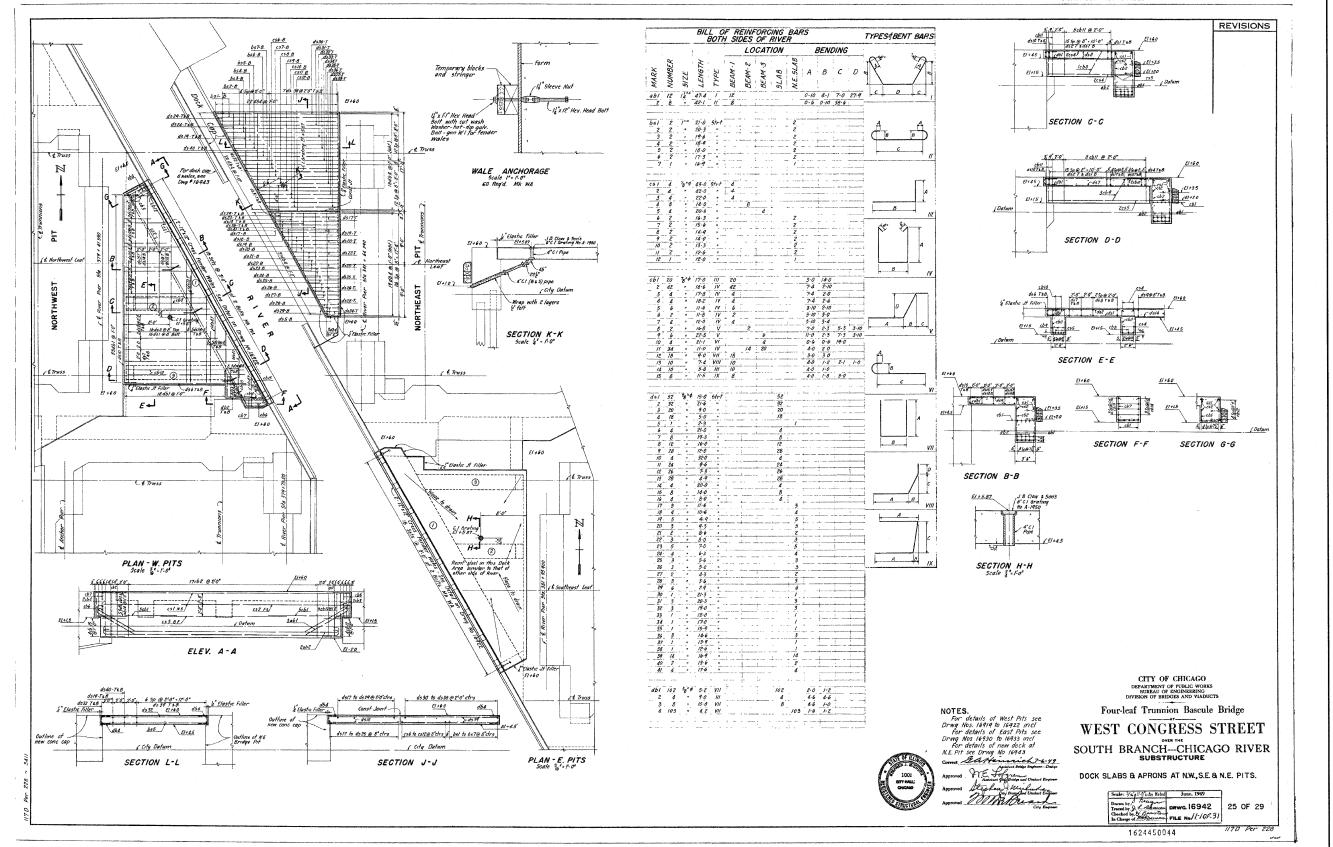


FOR INFORMATION ONLY

:\https://www.cadd/Prefinal/0162445-60E11-014-EX: 2008 12:28

ROUTE NO.	SECTION	cou	INTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 15					
F.A.P. 389	2424.2 B- I	cc	юк	23	22	16	SHEETS				
PED. ROAD DIST	NO. 7	ILLINGIS	FED. AID PRO	DJECT-							

Contract No. 60E11



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 16
F.A.P. 389	2424.2 B-I	соок	23	23	16 SHEETS
FEO. ROAD DIST	NO. 7	ILLINOIS FED. AID P	ROJECT-		

Contract No. 60E11

