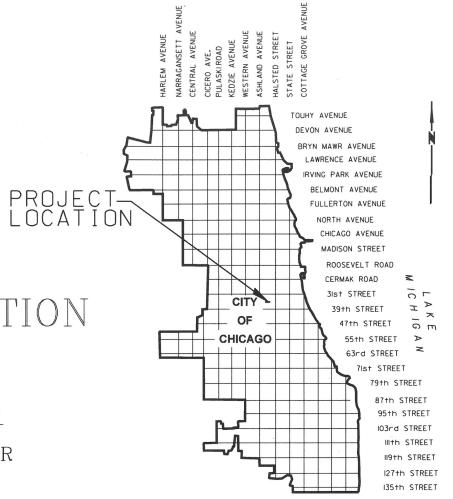


CITY OF CHICAGO RAHM EMANUEL MAYOR



CITY OF CHICAGO DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING

APPROVED:

PROJECT ENGINEER

HIEF ENGINEER - BRIDGES

DEPUTY COMMISSIONER

COMMISSIONER

PROJECT MAP

DEPARTMENT OF TRANSPORTATION REBEKAH SCHEINFELD, COMMISSIONER

DIVISION OF ENGINEERING
DANIEL BURKE, S.E., P.E., DEPUTY COMMISSIONER

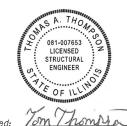
CONTRACT DOCUMENTS FOR

FOR

35TH STREET

THE SOUTH FORK OF THE SOUTH BRANCH
OF THE CHICAGO RIVER
STRUCTURAL REPAIRS
STRUCTURE NUMBER 016-6092

CDOT PROJECT NO.: E-6-638



Signed: /om / hompy Date: 2 / 9/20/8 Exp: 11/30/2018

A GTO HTRE GOOD - PANN D

LOT DATE = 2/8/2018

GENERAL NOTES:

ALL CONSTRUCTION MATERIALS AND CONSTRUCTION ACTIVITIES USED ON THIS CONTRACT SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED APRIL 1, 2016 BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT SSRBC). SPECIFIED SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS DATED JANUARY 1, 2017, AND PROJECT SPECIFICATIONS EXCEPT AS MODIFIED HEREIN.

PRE-BID/PRE-PROPOSAL VISITS AND ACCESS TO THE SITE MAY BE REQUIRED AND CAN BE ARRANGED THROUGH THE CHICAGO DEPARTMENT OF TRANSPORTATION, DIVISION OF ENGINEERING.

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.

ALL AVAILABLE EXISTING PLANS WILL BE PROVIDED TO THE CONTRACTOR IN ELECTRONIC FORMAT, AND CAN BE OBTAINED FROM THE CHICAGO DEPARTMENT OF TRANSPORTATION, DIVISION OF ENGINEERING.

THE CONTRACTOR MUST TAKE ALL NECESSARY SAFETY PRECAUTIONS TO PROTECT ABUTTING PROPERTY, UTILITIES, PEDESTRIANS, AND RIVER AND VEHICLI AR TRAFFIC. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT THE PUBLIC FROM FALLING DEBRIS, AS WELL AS FALLING AND TRIPPING HAZARDS. THE CONTRACTOR SHALL SUBMIT PLANS FOR PEDESTRIAN, RIVER AND VEHICULAR PROTECTION TO THE COMMISSIONER FOR APPROVAL PRIOR TO THE BEGINNING OF THE WORK.

AT THE COMPLETION OF THE PROJECT, IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE ANY DIRT, DEBRIS AND WATER RESULTING FROM THE CONTRACTOR'S OPERATIONS.

THE CONTRACTOR MUST PREVENT ANY MATERIAL FROM FALLING INTO THE RIVER DURING ALL CONSTRUCTION ACTIVITIES. THE COST OF CONTAINMENT SHALL BE INCLUDED IN THE COST COVERING CONCRETE REMOVAL.

ALL ELEVATIONS REFER TO CHICAGO CITY DATUM (CCD) EL 0.0 (WHICH IS 579.88 FT. ABOVE MEAN SEA LEVEL, NEW YORK, 1935 ADJUSTMENT).

PLANS MUST NOT BE SCALED FOR CONSTRUCTION DIMENSIONS.

COORDINATION, PERMIT AND FEES:

THE CONTRACTOR MUST OBTAIN ALL NECESSARY PERMITS FROM THE CITY OF CHICAGO AND ANY OTHER AGENCY NECESSARY TO PERFORM ALL WORK PRIOR TO COMMENCING CONSTRUCTION. THE COSTS ARE INCLUDED IN THE PAY ITEM FOR "STRUCTURAL STEEL REPAIR".

THE CONTRACTOR MUST OBTAIN ALL NECESSARY COAST GUARD PERMITS.

STORAGE OF CONSTRUCTION EQUIPMENT AND CONSTRUCTION MATERIAL IS NOT PERMITTED ON THE BRIDGE. THE CONTRACTOR SHALL WORK WITH THE CITY OF CHICAGO TO DETERMINE AN APPROPRIATE CONSTRUCTION STORAGE LOCATION.

THE CONTRACTOR IS PROHIBITED FROM STORING A BARGE IN THE RIVER WITHOUT PRIOR APPROVAL FROM THE COAST GUARD AND THE COMMISSIONER. THE BARGE MUST NOT BE LEFT UNDER THE BRIDGE WITHOUT A TUGBOAT OPERATOR BEING PRESENT AT CONSTRUCTION SITE.

CONSTRUCTION PROCEDURES:

NO ADDITIONAL CONSTRUCTION LOADING SHALL BE PLACED ON THE BRIDGE DURING CONSTRUCTION WITHOUT PERMISSION OF THE COMMISSIONER.

THE CONTRACTOR MUST UTILIZE THE REQUIRED CONSTRUCTION PROCEDURES TO ENSURE THAT ALL STRUCTURAL MEMBERS ARE SQUARE DURING THE INSTALLATION OF THE LATERAL BRACING FOR THE ROADWAY STRINGERS, AND SIDEWALK STRINGERS.

STRUCTURAL STEEL:

ALL IRON AND STEEL PRODUCTS MUST BE DOMESTICALLY MANUFACTURED AND/OR PROCUCED AND FABRICATED. THE CONTRACTOR MUST OBTAIN FROM THE IRON OR STEEL PRODUCER AND/OR FABRICATOR A CERTIFICATION THAT ALL IRON OR STEEL MATERIALS MEET THESE DOMESTIC SOURCE REQUIREMENTS, IN ADDITION TO THE MILL ANALYSIS. THE APPLICATION OF ALL COATINGS, EPOXY, GALVANIZING, PAINT, ETC. TO METAL PRODUCTS MUST BE DOMESTICALLY APPLIED.

ALL NEW STRUCTURAL STEEL MUST CONFORM TO THE REQUIREMENTS OF AASHTO M270 (ASTM A709, GRADE 50 OR GRADE 36), UNLESS NOTED OTHERWISE.

FASTENERS SHALL BE HIGH STRENGTH BOLTS (AASHTO M164 BOLTS, TYPE 1), 7/8" DIAMETER IN OPEN HOLES 15/16" DIAMETER, UNLESS OTHERWISE NOTED AND EXCEPT AS REQUIRED BY THE EXISTING DETAILS. ALL BOLTS SHALL BE MECHANICALLY GALVANIZED. ALL CONNECTIONS SHALL BE FRICTION TYPE CONNECTIONS.

ALL CONTACT SURFACES BETWEEN NEW AND EXISTING STEEL, INCLUDING CONNECTION BOLTS, NUT OR WASHER CONTACT AREAS, MUST BE FREE OF SCALE, BURRS, DIRT OR OTHER FOREIGN MATERIAL, AS WELL AS OF OIL. PREVIOUSLY APPLIED PAINT, LACQUER, OR OTHER COATINGS THAT WOULD PREVENT SOLID SEATING OF THE CONNECTED PARTS. THE CONTACT SURFACES SHALL BE CLEANED IN ACCORDANCE WITH THE LATEST VERSION OF THE GUIDE BRIDGE SPECIAL PROVISION (GBSP) 21 "CLEANING AND PAINTING CONTACT SURFACE AREAS OF EXISTING STEEL STRUCTURES".

FIELD WELDING IS NOT PERMITTED EXCEPT AS SPECIFIED IN THE CONTRACT DOCUMENTS OR WHEN APPROVED BY THE COMMISSIONER.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO TAKE MEASUREMENTS OF THE EXISTING STRUCTURE WHEREVER NEW STEEL IS TO BE INSTALLED OR CONNECTED INTO THE EXISTING MATERIAL. PRIOR TO ORDERING OR FABRICATING NEW STEEL. IT IS THE CONTRACTOR'S RESPONSIBILITY FOR THE PROPER FITTING AND ASSEMBLY OF ALL PARTS OF THIS WORK. THE CONTRACTOR'S SHOP DRAWINGS SHALL INDICATE WHICH DIMENSIONS WERE OBTAINED BY ACTUAL FIELD MEASUREMENTS. PRIOR TO ORDERING MATERIAL FOR FABRICATION. THE CONTRACTOR MUST VERIFY BOLT AND RIVET SPACINGS AND

THE LOCATION AND DIAMETER OF HOLES IN NEW CONNECTING MATERIAL MUST MATCH HOLES IN THE EXISTING STRUCTURE. HOLES IN EXISTING STRUCTURE MAY BE ENLARGED ONLY WITH THE PERMISSION OF THE COMMISSIONER AND IN ACCORDANCE WITH THE SPECIFICATIONS. HOLES MAY BE SUB-DRILLED OR SUB-PUNCHED IN NEW MATERIAL WHERE HOLES IN EXISTING MATERIAL ARE TO BE MATCHED. FIELD REAMING OF HOLES IN NEW MATERIAL THAT ARE SUB-DRILLED OR SUB-PUNCHED AND ARE TO MATCH EXISTING HOLES IS ACCEPTABLE, PROVIDED THE SUB-HOLE IS FULLY CONTAINED IN THE OUTLINE OF THE REAMED HOLE. FINAL HOLES SHALL BE ROUND AND SHALL NOT BE OVERSIZED.

CONCRETE AND REINFORCEMENT:

ALL NEW CONCRETE MUST HAVE AN UNCONFINED COMPRESSIVE STRENGTH OF 4,000 PSI.

REINFORCEMENT BARS MUST CONFORM TO THE REQUIREMENTS OF ASTM A706 GR. 60.

ALL REINFORCEMENT BARS MUST BE EPOXY COATED UNLESS NOTED OTHERWISE.

HORIZONTAL OR VERTICAL CONSTRUCTION JOINTS SHOWN OR NOTED ON THE PLANS ARE RECOMMENDED. THE CONTRACTOR MUST OBTAIN APPROVAL FROM THE COMMISSIONER FOR ANY DEVIATION FROM THOSE.

ALL CONSTRUCTIONS JOINTS MUST BE BONDED UNLESS NOTED OTHERWISE.

ALL EXPOSED EDGES OF CONCRETE MUST BE CHAMFERED 3/4" UNLESS OTHER MEMBERS ARE ERECTED FLUSH WITH THEM.

ALL STRUCTURAL CONCRETE REPAIRS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 503 OF IDOT SSRBC, ADOPTED APRIL 1, 2016, EXCEPT AS SPECIFIED IN GUIDE BRIDGE SPECIAL PROVISION (GBSP) 53 "STRUCTURAL REPAIR OF CONCRETE".

PRIOR TO POURING THE NEW CONCRETE DECK, ALL HEAVY OR LOOSE RUST, LOOSE MILL SCALE, AND OTHER LOOSE OR POTENTIALLY DETRIMENTAL FOREIGN MATERIAL SHALL BE REMOVED FROM THE SURFACE IN CONTACT WITH CONCRETE. TIGHTLY ADHERED PAINT MAY REMAIN UNLESS OTHERWISE NOTED. REMOVAL SHALL BE ACCOMPLISHED BY METHODS THAT WILL NOT DAMAGE THE STEEL AND THE COST WILL BE INCLUDED IN THE PAY ITEM COVERING REMOVAL OF THE EXISTING CONCRETE.

EXISTING REINFORCEMENT BARS EXTENDING INTO THE REMOVAL AREA SHALL BE CLEANED, STRAIGHTENED, AND INCORPORATED INTO THE NEW CONSTRUCTION. ANY REINFORCEMENT BARS THAT ARE DAMAGED DURING CONCREATE REMOVAL SHALL BE REPLACED WITH AN APPROVED BAR SPLICER OR ANCHORAGE SYSTEM. COST INCLUDED WITH CONCRETE REMOVAL.

REMOVAL OF EXISTING STRUCTURAL STEEL:

THE CONTRACTOR SHALL PERFORM ALL WORK WITH CARE SUCH THAT ALL MATERIALS WHICH ARE TO REMAIN IN PLACE WILL NOT BE DAMAGED. IF THE CONTRACTOR DAMAGES ANY MATERIALS WHICH ARE TO REMAIN IN PLACE. THE DAMAGED MATERIALS MUST BE REPAIRED OR REPLACED BY THE CONTRACTOR IN A SATISFACTORY MANNER TO THE COMMISSIONER AT NO ADDITIONAL EXPENSE TO THE CITY.

FLAME CUTTING OF EXISTING STRUCTURAL STEEL MEMBERS WHICH ARE TO REMAIN IN PLACE IS NOT ALLOWED.

WHERE EXISTING STRUCTURAL STEEL TO REMAIN HAS BEEN CUT OR NEW HOLES HAVE BEEN DRILLED, THE EDGES MUST BE DRESSED TO A SMOOTH UNIFORM SURFACE WITH NO NOTCHES

REMOVAL OF EXISTING BRIDGE STRUCTURAL STEEL SHALL BE DONE IN A MANNER AND SEQUENCE CONSISTENT WITH THE REHABILITATION OF THE BRIDGE.

UTILITIES:

THE CONTRACTOR MUST MAKE HIS OWN INVESTIGATION TO DETERMINE THE EXISTENCE, NATURE AND EXACT LOCATION OF ALL UTILITY LINES AND APPURTENANCES WITHIN THE LIMITS OF THIS IMPROVEMENTS. THE COST OF THIS WORK WILL BE CONSIDERED INCIDENTAL TO THIS CONTRACT.

THE CONTRACTOR MUST PROTECT EXISTING UTILITIES WHEN CONSIDERED NECESSARY BY THE COMMISSIONER, BY METHODS APPROVED BY THE COMMISSIONER. THE CONTRACTOR 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, AND ITS COST WILL BE CONSIDERED INCLUDED IN THE COST FOR STRUCTURAL STEEL REPAIR.

FOURTY-EIGHT (48) HOURS PRIOR TO STARTING EXCAVATION, THE CONTRACTOR MUST CALL DIGGER (CHICAGO UTILITY ALERT NETWORK) AT 312-744-7000 TO HAVE THE LOCATION OF EXISTING UNDERGROUND UTILITIES STAKED.

THE CONTRACTOR MUST TAKE NECESSARY PRECAUTIONS TO PROTECT UNDERGROUND AND OVERHEAD UTILITIES. THE CONTRACTOR MUST INVESTIGATE THE WORK ZONE TO IDENTIFY LOCATIONS OF SIGNS, POLES, OR OTHER STRUCTURES WHICH WOULD IMPACT THE PROPOSED WORK LOCATIONS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION MUST BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS/HER OWN EXPENSE.

THE UTILITY COMPANIES OR THEIR CONTRACTORS WILL PERFORM THE REQUIRED ADJUSTMENTS TO THEIR UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH EACH UTILITY COMPANY.

PAINT:

CLEANING AND PAINTING PORTIONS OF THE EXISTING STRUCTURAL STEEL AS SPECIFIES IN THE PLANS SHALL FOLLOW IDOT'S GUIDE BRIDGE SPECIAL PROVISION (GBSP) 25, "CLEANING AND PAINTING EXISTING STEEL STRUCTURES". COLOR SHALL BE DETERMINED BY THE COMMISSIONER.

CONTAINMENT OF CLEANING RESIDUE IS REQUIRED TO CONTROL NUISANCE DUST. SEE SPECIAL PROVISIONS.

NO.	ВΥ	DATE	DESCRIPTION
	REVISIONS		

35TH STREET OVER THE SOUTH FORK OF THE SOUTH BRANCH OF THE CHICAGO RIVER STRUCTURE NUMBER 016-6092

GENERAL NOTES

HNTB

CITY OF CHICAGO

CHECKED APC	
APPROVED TAT	G-2
DATE 09-29-2017	
SCALE NTS	2 OF 16 SHEETS
CONTRACT NO.	PROJECT NO. E-6-638

INDEX OF SHEETS

SHEET NO.	TITLE OF SHEET		
G-1	COVER		
G-2	GENERAL NOTES		
G-3	INDEX OF SHEETS AND SUMMARY OF QUANTITIES		
MOT-1	MAINTENANCE OF TRAFFIC STAGE 1		
MOT-2	MAINTENANCE OF TRAFFIC STAGE 2		
S-1	GENERAL PLAN AND ELEVATION		
S-2	DECK SLAB REPAIRS		
S-3	CONSTRUCTION STAGING		
S-4	REINFORCEMENT PLAN		
S-5	DECK SECTIONS		
S-6	DECK SECTIONS AND DETAILS		
S-7	BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS		
S-8	EXPANSION JOINT DETAILS		
S-9	PARTIAL FRAMING PLAN & STRINGER REPAIR DETAILS		
S-10	STEEL GIRDER REPAIR DETAILS		
S-11	RIVER PIER REPAIRS		

SUMMARY OF QUANTITIES

ITEM NO.	IDOT CODE	ITEM DESCRIPTION	UNIT OF MEASURE	QUANTITY
1	67100100	MOBILIZATION	LSUM	1
2	******	TRAFFIC CONTROL AND PROTECTION	L SUM	1
3	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	4211
4	70400100	TEMPORARY CONCRETE BARRIER	FOOT	513
5	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	513
6	67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	3
7	Z0004556	HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ YD	22
8	X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	1852
9	44213200	SAW CUTS	FOOT	91
10	50102400	CONCRETE REMOVAL	CU YD	9.9
11	******	STRUCTURAL STEEL REMOVAL	POUND	3730
12	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	939
13	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	10
14	40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	2.5
15	50300255	CONCRETE SUPERSTRUCTURE	CU YD	9.9
16	Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	22
17	Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	146
18	******	BRIDGE SIDEWALK REPAIR (PARTIAL DEPTH)	SQ FT	1015
19	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1360
20	50800530	MECHANICAL SPLICERS	EA	32
21	52000030	PREFORMED JOINT SEAL 2 1/2"	FOOT	46
22	******	STRUCTURAL STEEL REPAIR	POUND	6670
23	Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1
24	Z0007114	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES	L SUM	1
25	******	CLEANING BRIDGE SEATS	SQ FT	220
26	******	FURNISH & INSTALL PROJECT SIGN	EA	2

NO.	BY	DATE	DESCRIPTION
			DEVISIONS

35TH STREET OVER THE SOUTH FORK OF THE SOUTH BRANCH OF THE CHICAGO RIVER STRUCTURE NUMBER 016–6092

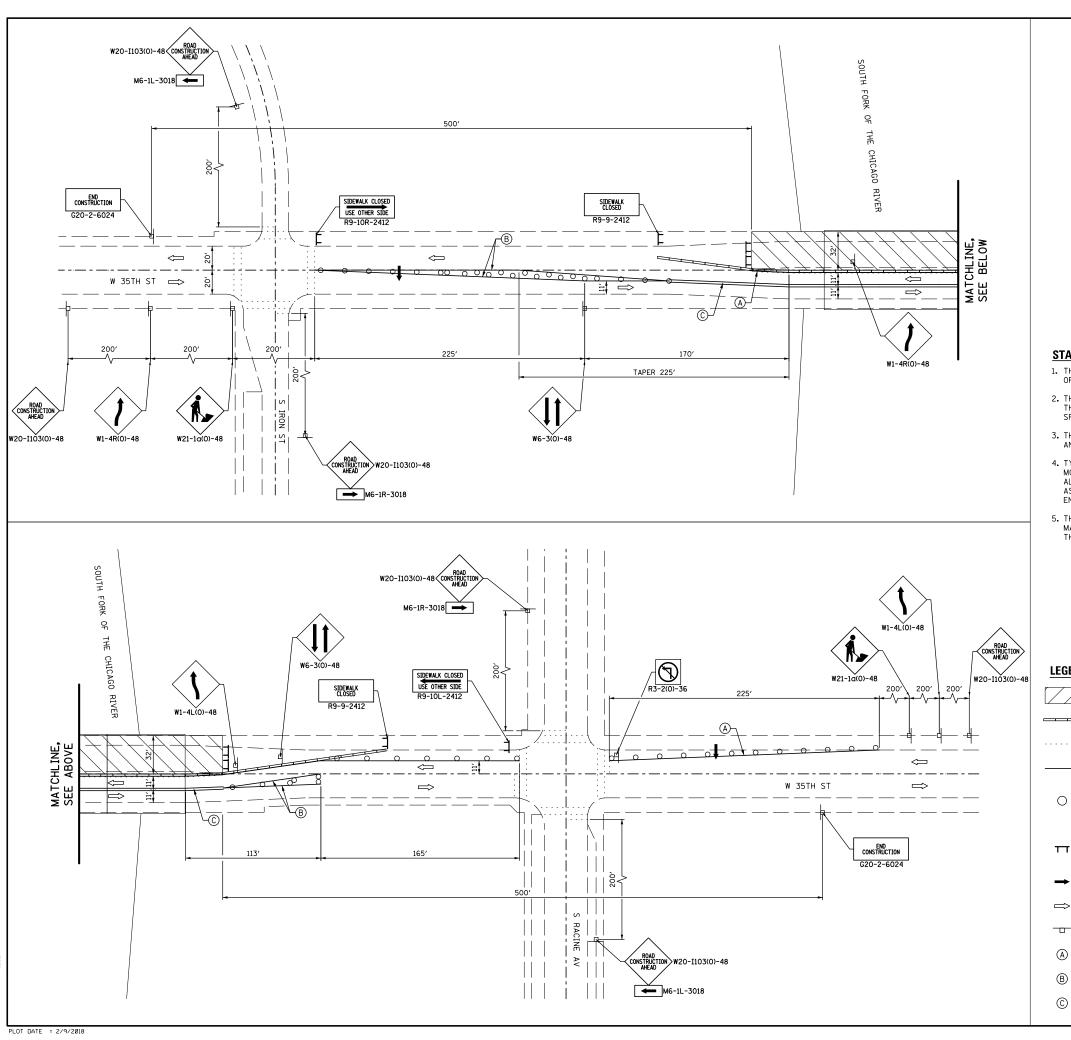
INDEX OF SHEETS AND SUMMARY OF QUANTITIES

CONSULTANT

HNTB

CITY OF CHICAGO

CKED APC	
ROVED TAT	G-3
09-29-2017	
.E NTS	3 OF 16 SHEETS
TRACT NO.	PROJECT NO. E-6-638





- 1. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 11' CLEAR WIDTH OF TRAFFIC LANE FOR TRAFFIC FLOW.
- 2. THE CONTRACTOR SHALL MAINTAIN TRAFFIC IN ACCORDANCE WITH THE SPECIAL PROVISIONS, STATE STANDARDS, STANDARD SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER.
- 3. THE ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY CHANGE IN CONSTRUCTION STAGING.
- 4. TYPE I BARRICADES SHALL BE EQUIPPED WITH MONO-DIRECTIONAL STEADY BURN LIGHTS AND SHALL BE PLACED ALONG THE PROPOSED WORK ZONE AND WITHIN TAPER SECTIONS AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- 5. THE CONTRACTOR SHALL REMOVE ALL EXISTING PAVEMENT MARKINGS, COVER SIGNS AND OTHER DEVICES IN CONFLICT WITH THE DESIGNATED TRAFFIC CONTROL PLAN.

LEGEND

- WORK ZONE

- CONCRETE BARRIER

- EXISTING PAVEMENT MARKING

PROPOSED PAVEMENT MARKING

- DRUM OR TYPE I BARRICADE W/ STEADY BURN AMBER LIGHT @ 20' C-C

- TYPE III BARRICADE WITH FLASHING LIGHTS

- ARROW BOARD

- TRAFFIC DIRECTION

- TEMPORARY TRAFFIC SIGN

- 4" WHITE LINE

- 4" YELLOW LINE

- 4" DOUBLE YELLOW LINE

35TH STREET OVER THE SOUTH FORK OF THE CHICAGO RIVER STRUCTURE NO. 016-0692

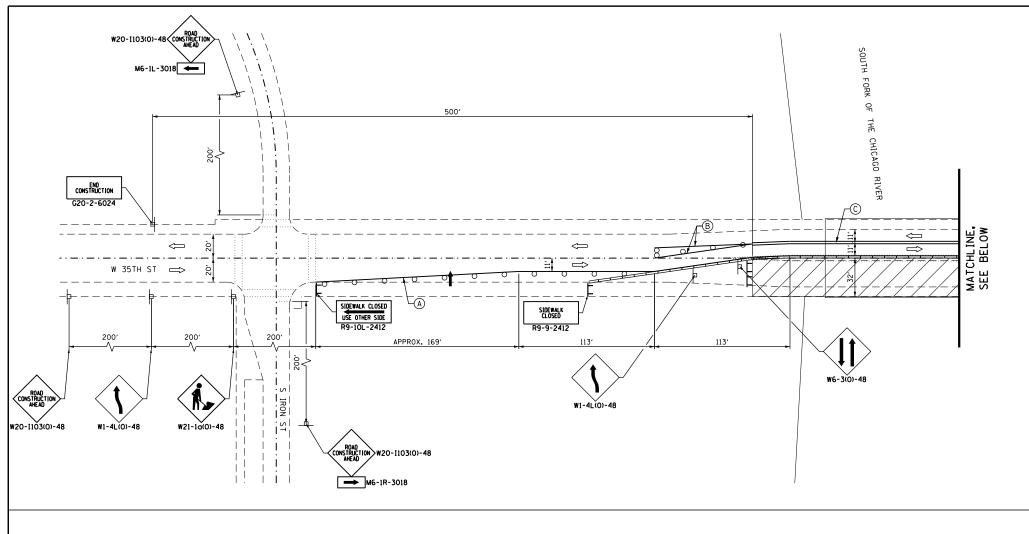
MAINTENANCE OF TRAFFIC STAGE 1

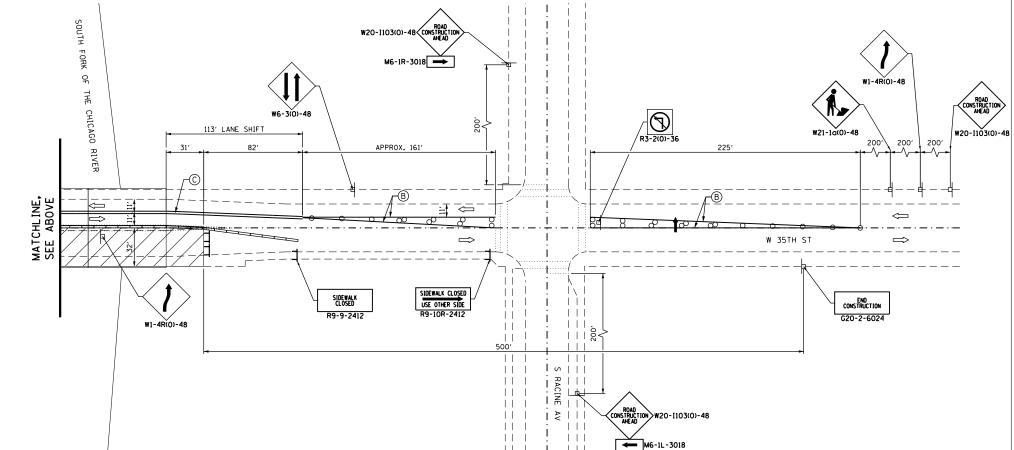
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CITY OF CHICAGO

DEPARTMENT OF TRANSPORTATION DIVISION OF ENGINEERING

CHECKED TAT APPROVED TAT MOT-1 DATE 09/29/2017 SCALE NOT TO SCALE







STAGE 2 NOTES

- THE CONTRACTOR SHALL MAINTAIN A MINIMUM 11' CLEAR WIDTH OF TRAFFIC LANE FOR TRAFFIC FLOW.
- 2. THE CONTRACTOR SHALL MAINTAIN TRAFFIC IN ACCORDANCE WITH THE SPECIAL PROVISIONS, STATE STANDARDS, STANDARD SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER.
- 3. THE ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY CHANGE IN CONSTRUCTION STAGING.
- 4. TYPE I BARRICADES SHALL BE EQUIPPED WITH MONO-DIRECTIONAL STEADY BURN LIGHTS AND SHALL BE PLACED ALONG THE PROPOSED WORK ZONE AND WITHIN TAPER SECTIONS AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- 5. THE CONTRACTOR SHALL REMOVE ALL EXISTING PAVEMENT MARKINGS, COVER SIGNS AND OTHER DEVICES IN CONFLICT WITH THE DESIGNATED TRAFFIC CONTROL PLAN.

LEGEND

- WORK ZONE

- CONCRETE BARRIER

- EXISTING PAVEMENT MARKING

- - PROPOSED PAVEMENT MARKING

- DRUM OR TYPE I BARRICADE W/ STEADY BURN AMBER LIGHT @ 20' C-C

- TYPE III BARRICADE WITH FLASHING LIGHTS

- ARROW BOARD

⇒ - TRAFFIC DIRECTION

- TEMPORARY TRAFFIC SIGN

A - 4" WHITE LINE

3 - 4" YELLOW LINE

- 4" DOUBLE YELLOW LINE

NO.	BY	DATE	DESCRIPTION		
REVISIONS					

35TH STREET OVER THE SOUTH FORK OF THE CHICAGO RIVER STRUCTURE NO. 016-0692

MAINTENANCE OF TRAFFIC STAGE 2

HNTB

CITY OF CHICAGO

DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING

DRAWN JAG SHEET NO.

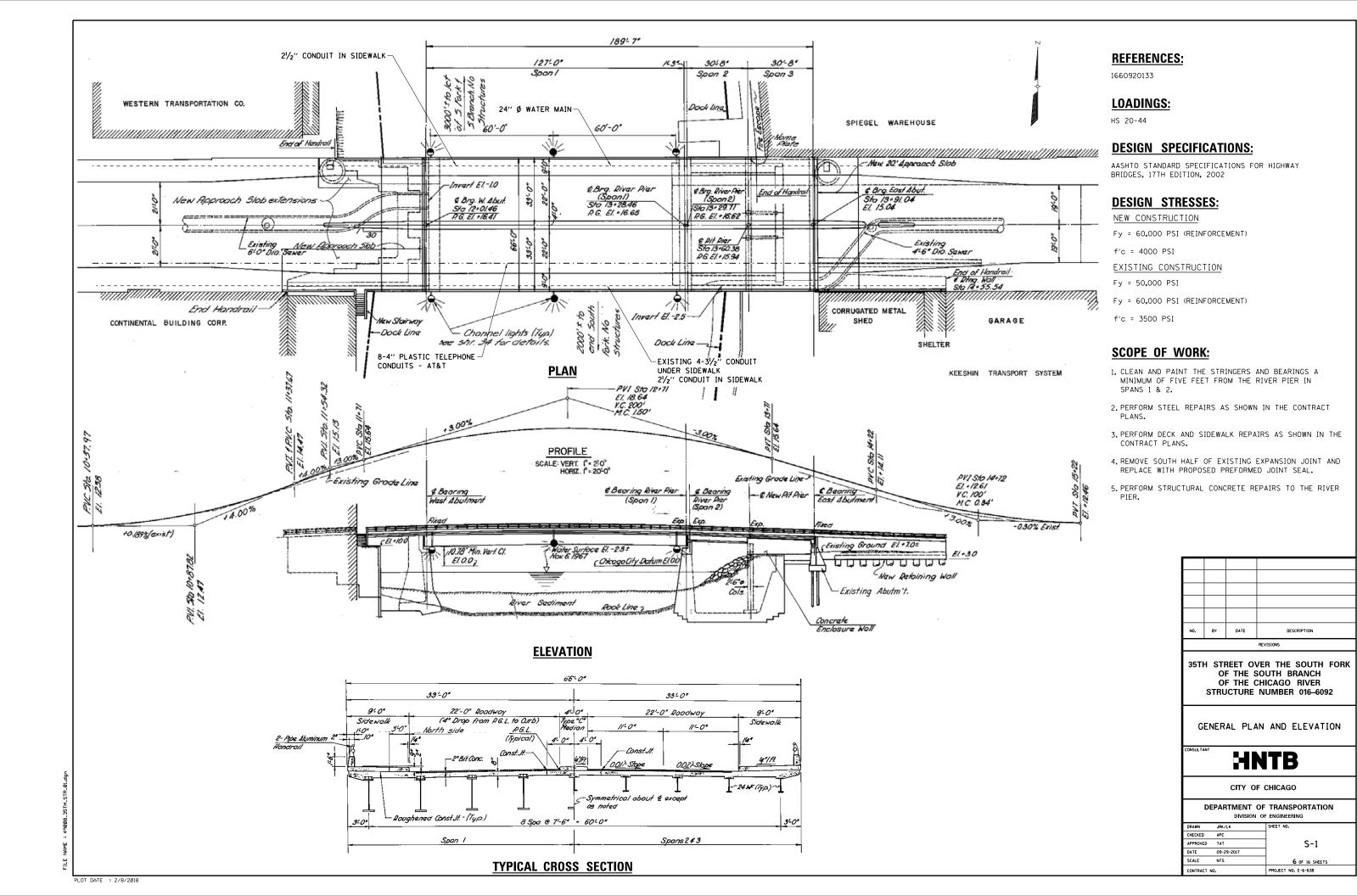
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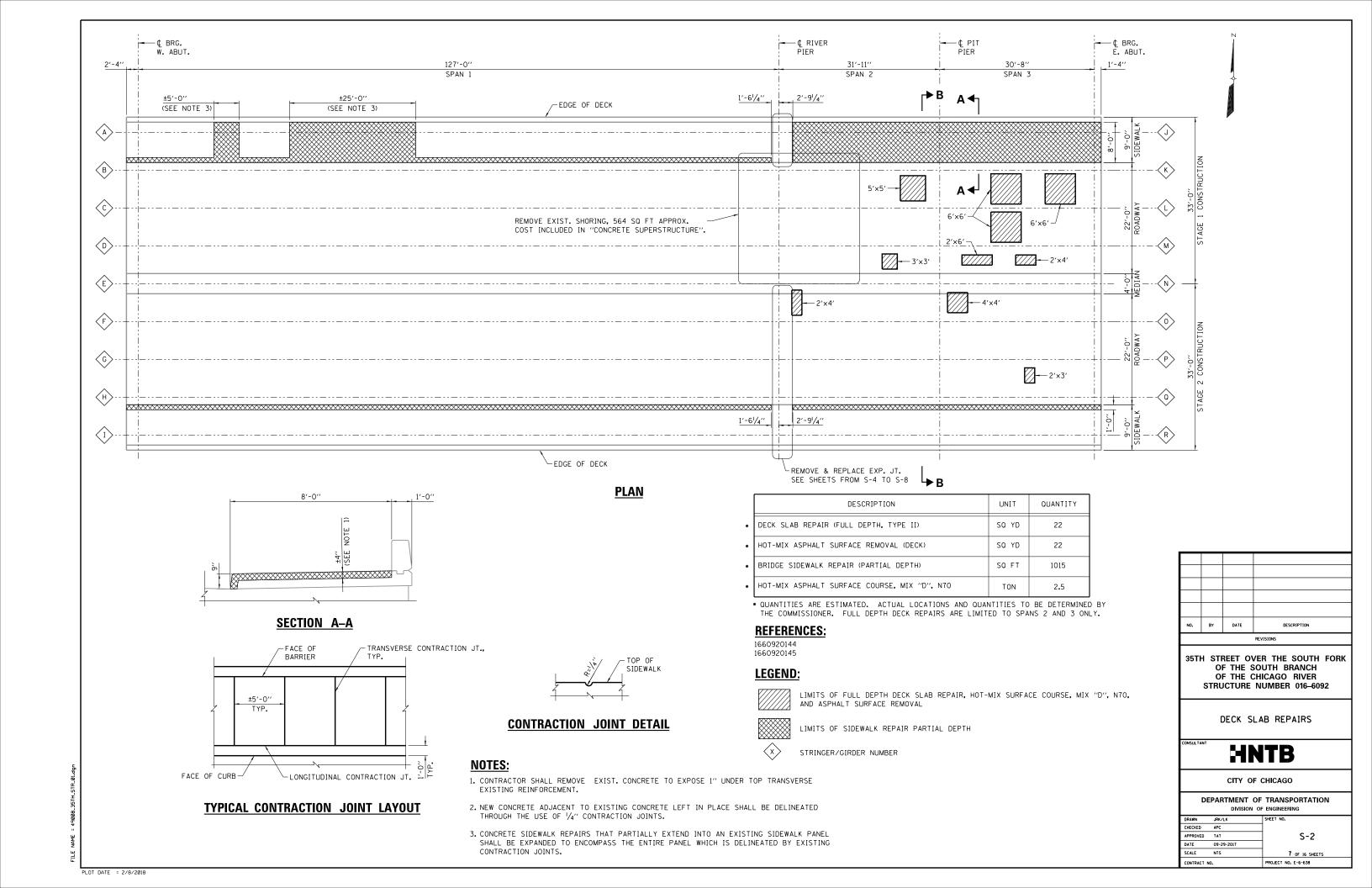
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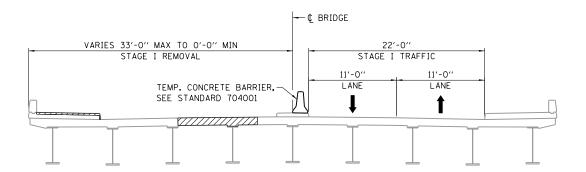
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PLOT DATE = 10/13/2017

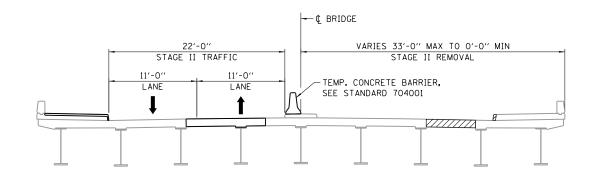






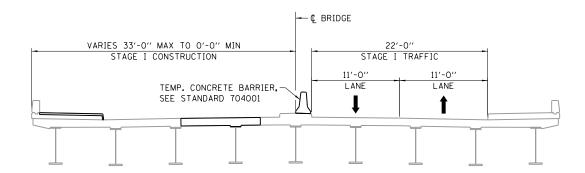
SECTION B-B STAGE I REMOVAL

(LOOKING EAST)



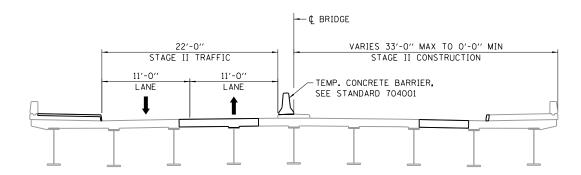
SECTION B-B STAGE II REMOVAL

(LOOKING FAST)



SECTION B-B STAGE I CONSTRUCTION

(LOOKING EAST)



SECTION B-B STAGE II CONSTRUCTION

(LOOKING EAST)

LEGEND



PARTIAL REMOVAL OF EXISTING STRUCTURE

NOTES:

1. FOR TEMPORARY CONCRETE BARRIER DETAILS, SEE IDOT'S LATEST HIGHWAY STANDARDS.

NO.	ВΥ	DATE	DESCRIPTION
			REVISIONS

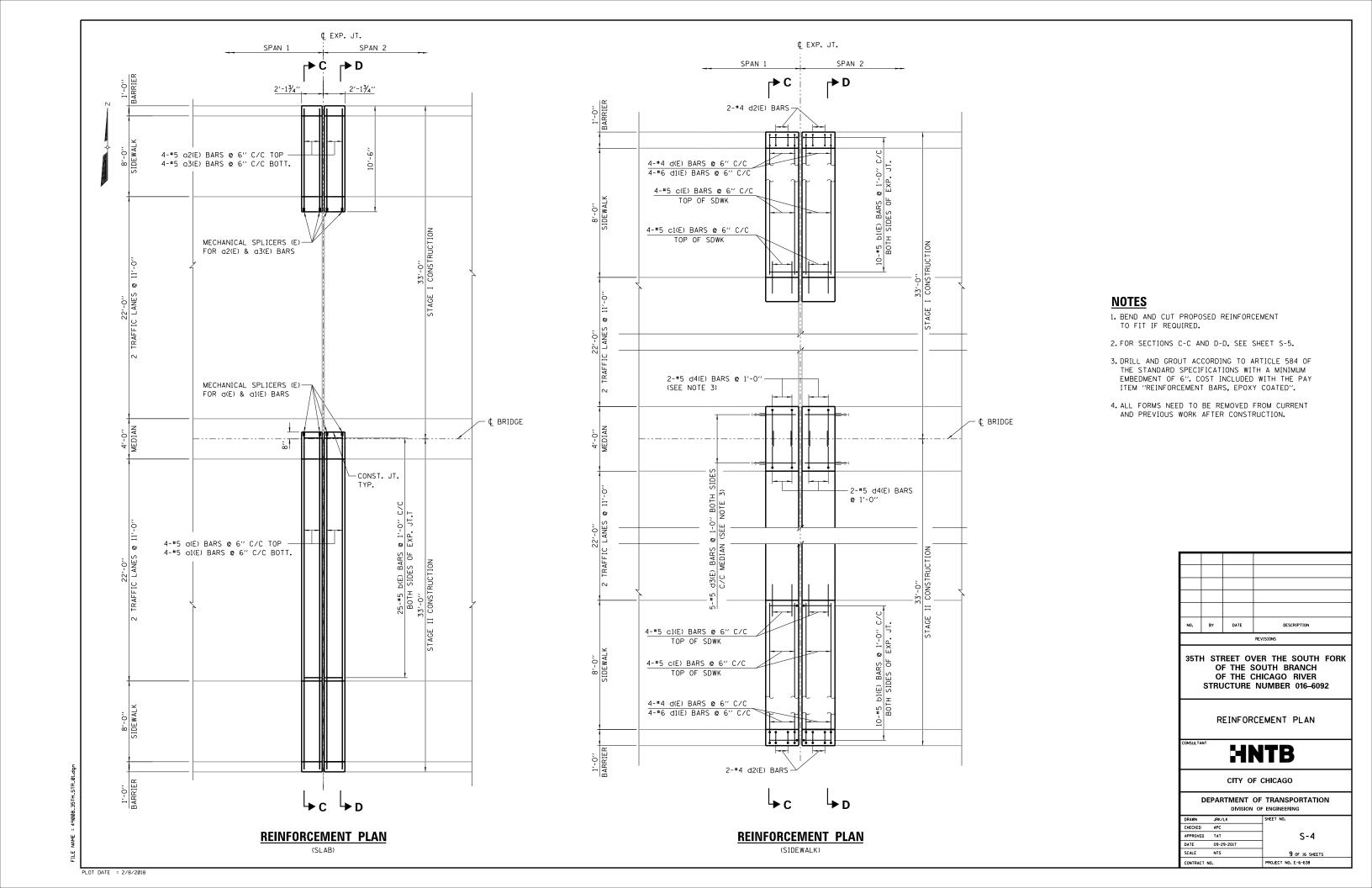
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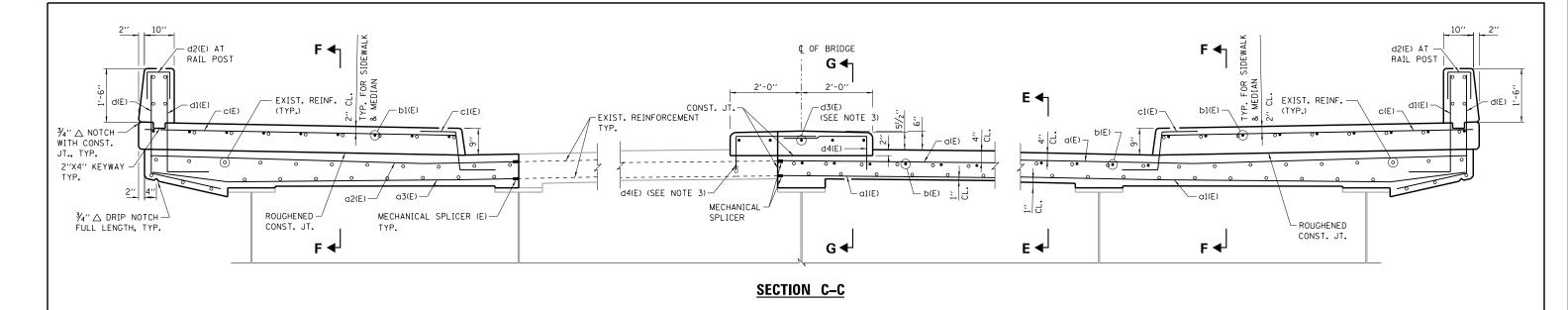
CONSTRUCTION STAGING

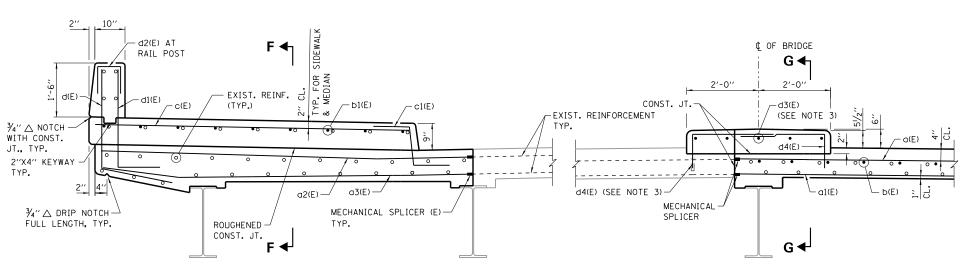
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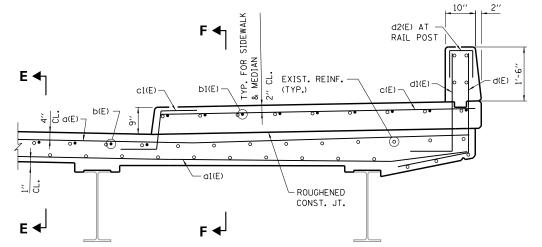
CITY OF CHICAGO

DRAWN JRK/LK	SHEET NO.
CHECKED APC	
APPROVED TAT	S-3
DATE 09-29-201	7
SCALE NTS	8 OF 16 SHEETS
CONTRACT NO.	PROJECT NO. E-6-638









SECTION D-D

NOTES

- 1. BEND AND CUT PROPOSED REINFORCEMENT TO FIT IF REQUIRED.
- 2. EXISTING REINFORCEMENT SHALL BE CLEANED AND INCORPORATED INTO THE NEW CONSTRUCTION. COST INCLUDED WITH CONCRETE REMOVAL.
- 3. DRILL AND GROUT ACCORDING TO ARTICLE 584 OF THE STANDARD SPECIFICATIONS WITH A MINIMUM EMBEDMENT OF 6". COST INCLUDED WITH THE PAY ITEM "REINFORCEMENT BARS, EPOXY COATED".
- 4. FOR SECTIONS E-E, F-F AND G-G, SEE SHEET S-6.
- 5. PROPOSED CONSTRUCTION SHALL MATCH EXISTING ELEVATIONS.

NO.	BY	DATE	DESCRIPTION	
			REVISIONS	

35TH STREET OVER THE SOUTH FORK OF THE SOUTH BRANCH OF THE CHICAGO RIVER STRUCTURE NUMBER 016-6092

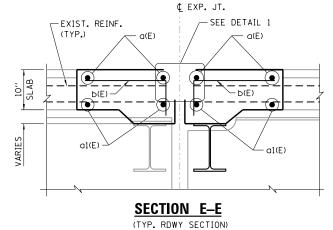
DECK SECTIONS

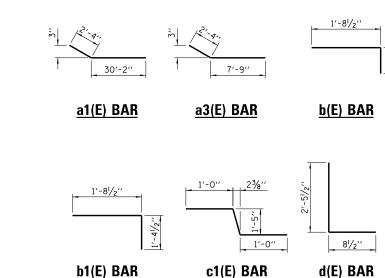
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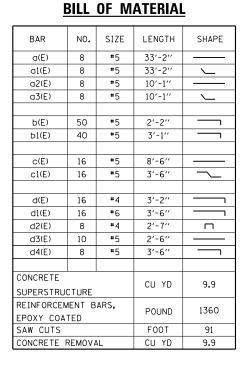
CITY OF CHICAGO

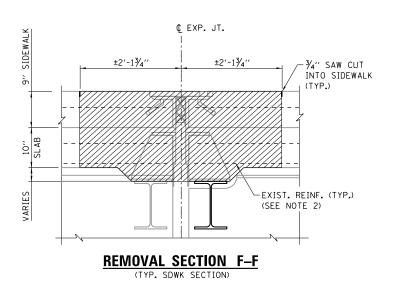
DRAWN JE	RK/LK	SHEET NO.
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APPROVED T	AT	S-5
DATE O	9-29-2017	
SCALE N	TS	10 OF 16 SHEETS
CONTRACT NO.		PROJECT NO. E-6-638

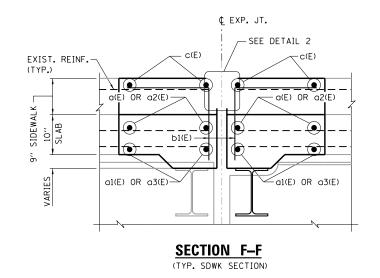
EXIST. REINF. (TYP.) REMOVAL SECTION E-E (TYP. RDWY SECTION)

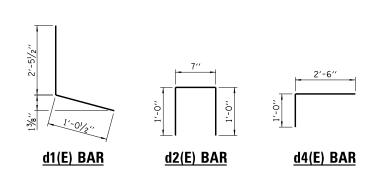


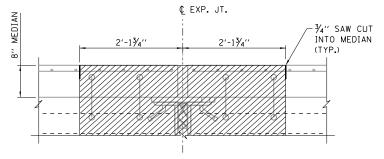








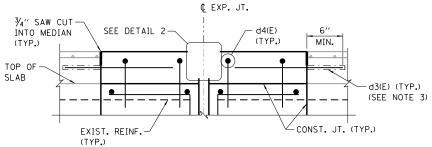




REMOVAL SECTION G-G

(TYP. MEDIAN SECTION)





SECTION G-G

NOTES

- 1. BEND AND CUT PROPOSED REINFORCEMENT TO FIT IF REQUIRED.
- 2. EXISTING REINFORCEMENT SHALL BE CLEANED AND INCORPORATED INTO THE NEW CONSTRUCTION. COST INCLUDED WITH CONCRETE REMOVAL.
- 3. DRILL AND GROUT ACCORDING TO ARTICLE 584 OF THE STANDARD SPECIFICATIONS WITH A MINIMUM EMBEDMENT OF 6". COST INCLUDED WITH THE PAY ITEM "REINFORCEMENT BARS, EPOXY COATED".
- 4. FOR EXPANSION JOINT DETAILS 1 & 2, SEE SHEET S-8.
- 5. PROPOSED CONSTRUCTION SHALL MATCH EXISTING ELEVATIONS.

NO.	BY	DATE	DESCRIPTION

35TH STREET OVER THE SOUTH FORK OF THE SOUTH BRANCH OF THE CHICAGO RIVER STRUCTURE NUMBER 016-6092

DECK SECTIONS
AND DETAILS

CONSULTAN'

HNTB

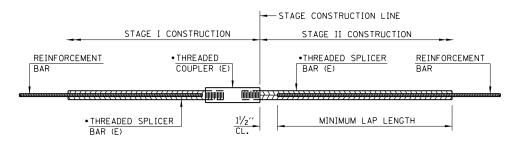
CITY OF CHICAGO

DEPARTMENT OF TRANSPORTATION DIVISION OF ENGINEERING

JRANN	JRK/LK	SHEET NO.
CHECKED	APC	
APPROVED	TAT	S-6
DATE	09-29-2017	
SCALE	NTS	11 OF 16 SHEETS
CONTRACT N) .	PROJECT NO. E-6-638

FILE NAME = 49008_35TH_STR_01.dgn

PLOT DATE = 2/8/2018

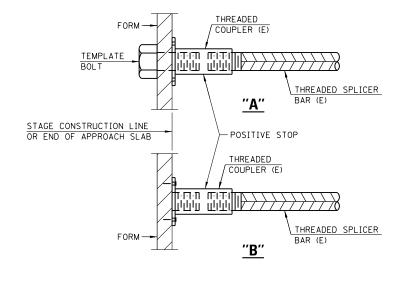


STANDARD BAR SPLICER ASSEMBLY

THREADED SPLICER BAR LENGTH = MIN. LAP LENGTH + $1\frac{1}{2}$ " + THREAD LENGTH

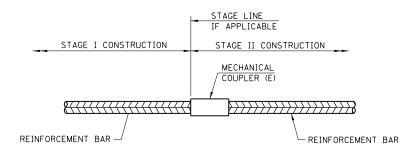
• EPOXY NOT REQUIRED ON BAR SPLICER ASSEMBLY COMPONENTS USED IN CONJUNCTION WITH BLACK BARS.

LOCATION	BAR SIZE	NO. ASSEMBLIES REQUIRED	MINIMUM LAP LENGTH



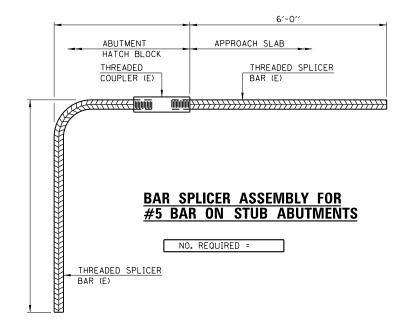
INSTALLATION AND SETTING METHODS

- "A" : SET BAR SPLICER ASSEMBLY BY MEANS OF A TEMPLATE BOLT.
- "B": SET BAR SPLICER ASSEMBLY BY NAILING TO WOOD FORMS OR CEMENTING TO STEEL FORMS.
- (E) : INDICATES EPOXY COATING.



STANDARD MECHANICAL SPLICER

LOCATION	BAR SIZE	NO. ASSEMBLIES REQUIRED
SLAB	#5	32



NOTES

- 1. SPLICER BARS SHALL BE DEFORMED WITH THREADED ENDS AND HAVE A MINIMUM 60 KSI YIELD STRENGTH.
- 2. ALL REINFORCEMENT SHALL BE LAPPED AND TIED TO THE SPLICER BARS.
- 3. BAR SPLICER ASSEMBLIES SHALL BE EPOXY COATED ACCORDING TO THE REQUIREMENTS FOR REINFORCEMENT BARS. SEE SECTION 508 OF THE STANDARD SPECIFICATIONS.
- 4. SEE APPROVED LIST OF BAR SPLICER ASSEMBLIES AND MECHANICAL SPLICERS FOR ALTERNATIVES.

NO.	ВΥ	DATE	DESCRIPTION
			REVISIONS

35TH STREET OVER THE SOUTH FORK OF THE SOUTH BRANCH OF THE CHICAGO RIVER STRUCTURE NUMBER 016-6092

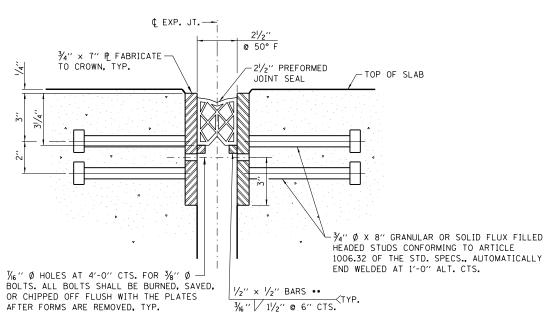
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS

CONSULTAN

HNTB

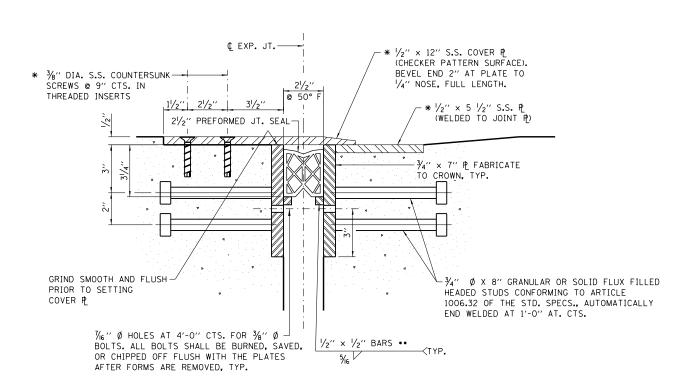
CITY OF CHICAGO

ANN	JRK/LK	SHEET NO.
ECKED	APC	
PROVED	TAT	S-7
TE	09-29-2017	_
ALE	NTS	12 OF 16 SHEETS
NTRACT N) .	PROJECT NO. E-6-638



DETAIL 1

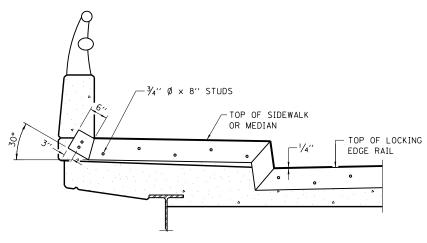
(ROADWAY SECTION)



DETAIL 2

(SIDEWALK SECTION)

- * COST OF $\frac{3}{8}$ " Ø STAINLESS STEEL COUNTERSUNK SCREWS, $\frac{1}{2}$ "×12" STAINLESS STEEL CHECKERED PLATE, AND $\frac{1}{2}$ "×4 $\frac{1}{2}$ " STAINLESS STEEL PLATE SHALL BE INCLUDED IN THE COST FOR PREFORMED JOINT STRIP SEAL.
- $\ensuremath{\mbox{\#}}\mbox{\#}\mbox{\#}\mbox{\#}\mbox{ETAINER}$ BARS IN SIDEWALK OR MEDIAN 6" SHORT OF THE SIDEWALK OR MEDIAN FACE.

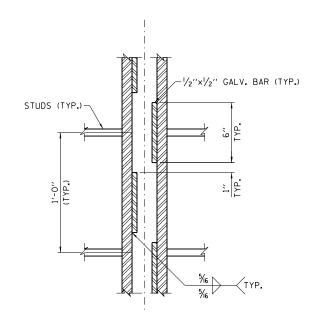


TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN

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.

EXPANSION OPENING

TEMPERATURE °F	10	20	30	40	50	60	70	80	90
OPENING	3′′	21/8"	23/4"	25/8"	21/2"	23/8′′	21/4"	21/8"	2"



JOINT SEAL SUPPORT BAR STAGGER PLAN

NOTES:

- 1. FURNISH PREFORMED JOINT SEAL STEEL PLATES IN SEGMENTS OF 20 FEET MAXIMUM LENGTH. MAXIMUM SPACE BETWEEN INSTALLED SEGMENTS SHALL BE $\frac{1}{16}$ ". SEAL SPACE WITH SILICONE SEALANT SUITABLE FOR STRUCTURAL STEEL.
- 2. THE MANUFACTURER'S RECOMMENDED INSTALLATION METHODS SHALL BE FOLLOWED.
- 3. ALL STEEL COMPONENTS SHALL BE GALVANIZED AFTER FABRICATION ACCORDING TO ARTICLE 520.03 OF THE STANDARD SPECIFICATIONS.

BILL OF MATERIAL

	ITEM				UNIT	TOTAL
PREFORMED	JOINT	SEAL	2	1/2"	FOOT	46

NO.	ВΥ	DATE	DESCRIPTION
			REVISIONS

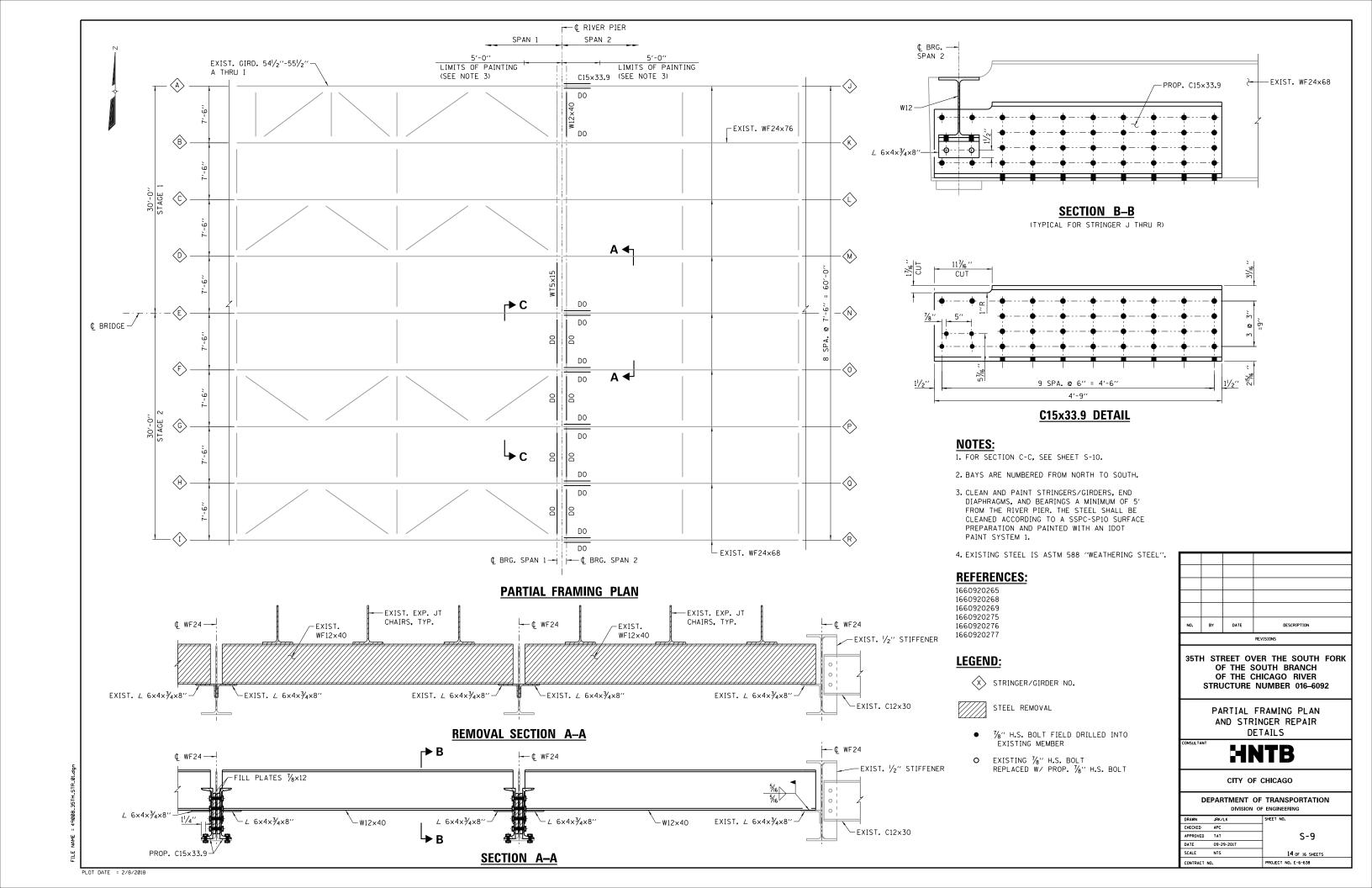
35TH STREET OVER THE SOUTH FORK OF THE SOUTH BRANCH OF THE CHICAGO RIVER STRUCTURE NUMBER 016-6092

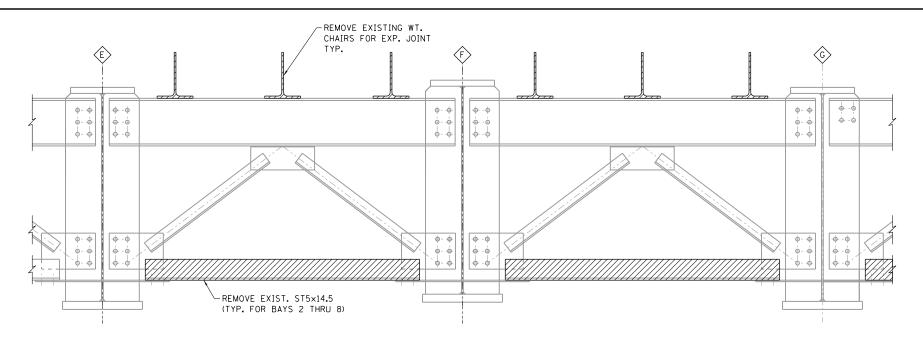
EXPANSION JOINT DETAILS

HNTB

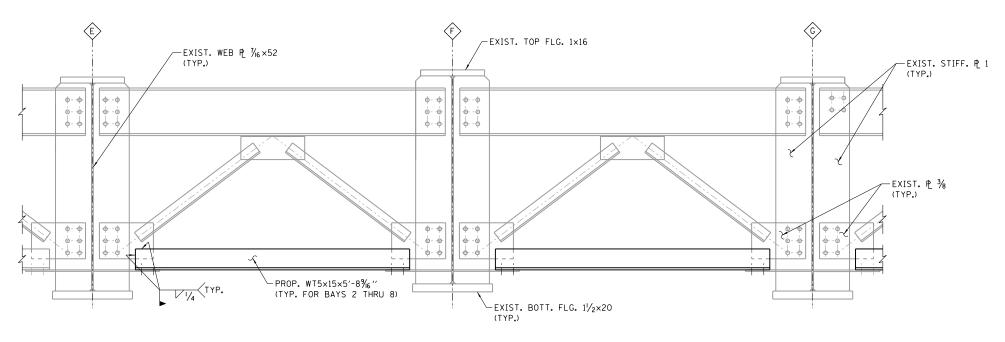
CITY OF CHICAGO

DRAWN	JRK/LK	SHEET NO.
CHECKED	APC	
APPROVED	TAT	S-8
DATE	09-29-2017	
SCALE	NTS	13 OF 16 SHEETS
CONTRACT NO).	PROJECT NO. E-6-638





REMOVAL SECTION C-C



SECTION C-C

(TYP. REPAIR DETAIL)

REFERENCES:

LEGEND:

STEEL REMOVAL

NOTES:

- 1. CONTRACTOR SHALL REMOVE AND GRIND SMOOTH ALL EXISTING WELDS ASSOCIATED W/ EXISTING STRUCTURAL MEMBERS TO BE REMOVED. REMOVAL OF WELDS SHALL BE INCLUDED IN THE COST OF STRUCTURAL STEEL REMOVAL.
- 2. EXISTING STEEL IS ASTM A 588 "WEATHERING STEEL".
- 3. USE ELECTRODE E70XX.
- 4. BAYS ARE NUMBERED FROM NORTH TO SOUTH.



35TH STREET OVER THE SOUTH FORK OF THE SOUTH BRANCH OF THE CHICAGO RIVER STRUCTURE NUMBER 016–6092

STEEL GIRDER REPAIR DETAILS

CONSULTANT

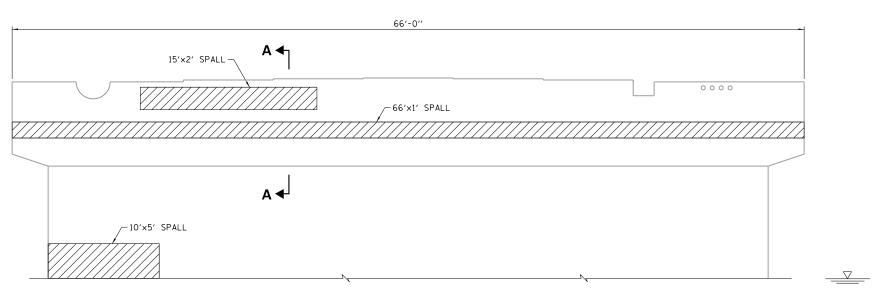
HNTB

CITY OF CHICAGO

DEPARTMENT OF TRANSPORTATION
DIVISION OF ENGINEERING

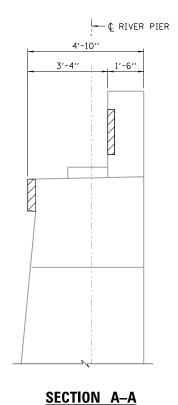
ECKED	APC	
PROVED	TAT	S-10
TE	09-29-2017	
ALE	NTS	15 OF 16 SHEETS
NTDACT N	n	PROJECT NO. F-6-638

FILE NAME = 49008_35TH_STR_01.dgn



RIVER PIER ELEVATION

(LOOKING EAST)



	DESCRIPTION	UNIT	QUANTITY
*	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 IN)	SQ FT	146
	CLEANING BRIDGE SEATS	SQ FT	220

* OUANTITIES ARE ESTIMATED. ACTUAL LOCATIONS AND QUANTITIES TO BE DETERMINED BY THE COMMISSIONER IN THE FIELD. STRUCTURAL REPAIR OF CONCRETE SHALL BE LIMITED TO THE RIVER PIER ONLY.

EGEND:



LIMITS OF STRUCTURAL CONCRETE REPAIRS (DEPTH EQUAL TO OR LESS THAN 5 IN)

NOTES:

1. CONTRACTOR TO CLEAN BRIDGE SEAT ON THE RIVER PIER.
COST FOR CLEANING BRIDGE SEAT SHALL BE INCLUDED IN
THE PAY ITEM "CLEANING BRIDGE SEATS".

NO.	ВΥ	DATE	DESCRIPTION	
PENTCIONS				

35TH STREET OVER THE SOUTH FORK OF THE SOUTH BRANCH OF THE CHICAGO RIVER STRUCTURE NUMBER 016–6092

RIVER PIER REPAIRS

HNTB

CITY OF CHICAGO

ANN	JRK/LK	SHEET NO.
ECKED	APC	
PROVED	TAT	S-11
TE	09-29-2017	
ALE	NTS	16 OF 16 SHEETS
NTRACT NO.		PROJECT NO. E-6-638