



# GENERAL NOTES

THE CONTRACTOR SHALL CAREFULLY PRESERVE ALL PROPERTY MARKS, SECTION OR SUBSECTION MONUMENTS ENCOUNTERED, UNTIL AN OWNER OR AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. ANY PROPERTY MARKS, SECTION OR SUBSECTION MONUMENTS UNLESS REFERENCED, DAMAGED BY THE CONTRACTOR SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.

THE CONTRACTOR SHALL NOTIFY THE RESPECTIVE UTILITIES TO MAKE THE NECESSARY ADJUSTMENTS PRIOR TO THIS CONSTRUCTION.

THE LOCATION AND ELEVATION OF THE UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE NOT TO BE TAKEN AS EXACT. THE CONTRACTOR SHALL USE SPECIAL CARE WHEN CONDUCTING CONSTRUCTION OPERATIONS NEAR THEM TO PREVENT DAMAGE.

ALL PAVEMENT SHALL BE CLEANED AND "FRESH OIL" SIGNS SHALL BE PLACED AT ALL INTERSECTIONS OF THE STREETS PRIOR TO APPLYING BITUMINOUS MATERIALS (PRIME COAT).

THE FINAL TOP 4" OF SOIL IN ANY AREA DISTURBED BY THE CONTRACTOR MUST BE ABLE TO SUPPORT VEGETATION.

EXISTING STREET SIGNS AND TRAFFIC SIGNS THAT ARE WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED AND RESET BY THE CONTRACTOR IN ACCORDANCE WITH ARTICLE 107.25.

WHERE THE PROPOSED CONSTRUCTION MEETS AN EXISTING BITUMINOUS OR CONCRETE SURFACE, OR WHERE SAWING IS STATED ON THE PLANS, THE EXISTING SURFACE SHALL BE SAWED IN A NEAT, STRAIGHT LINE. COST OF SAWING IS TO BE INCLUDED IN THE UNIT BID PRICES OF THE ITEMS BEING REMOVED.

ANY TEMPORARY SEEDING THAT IS DIRECTED BY THE ENGINEER SHALL BE PAID AS TEMPORARY EROSION CONTROL SEEDING.

PROPERTY OWNED BY THE CITY OF JOLIET AT THE SOUTHWEST CORNER OF THE BRIDGE CAN BE UTILIZED BY THE CONTRACTOR FOR STAGING.

THE CONTRACTOR SHALL COMPLETE A RIGHT-OF-ENTRY APPLICATION 6 WEEKS PRIOR TO THE START OF CONSTRUCTION FOR ACCESS ONTO THE REGIONAL TRANSPORTATION AUTHORITY PROPERTY.

LOCATION OF PROPOSED TREES WILL BE DETERMINED BY THE CITY AFTER CONSTRUCTION OF THE BRIDGE AND ROADWAY ITEMS ARE COMPLETED.

## HORIZONTAL CONTROL

CITY OF JOLIET, ILLINOIS BRIDGE REPLACEMENT WASHINGTON STREET OVER SPRING CREEK				
PT #	LOCATION	NORTHING	EASTING	DESCRIPTION
CONTROL PT. 100	22.71' LT. STA. 45+23.25	1,769,399.725	1,057,131.602	IP
CONTROL PT. 101	20.06' LT. STA. 47+32.81	1,769,403.377	1,057,341.148	PK NAIL

## BENCHMARKS

CITY OF JOLIET, ILLINOIS BRIDGE REPLACEMENT WASHINGTON STREET OVER SPRING CREEK			
B.M.	LOCATION	DESCRIPTION	ELEV.
1	26' RT. STA. 43+51	RR SPIKE IN UTILITY POLE	541.05
2	SE WINGWALL (EXIST. BRIDGE)	CHIS. "□"	542.65
3	25' RT. STA. 48+94	RR SPIKE IN UTILITY POLE	543.69

## STANDARDS

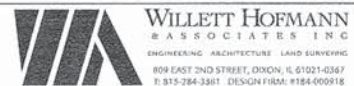
000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-07	PERPENDICULAR CURB RAMP FOR SIDEWALKS
515001-03	NAME PLATE FOR BRIDGES
606001-05	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701801-05	SIDEWALK CLOSURE OR CROSSWALK CLOSURE
701901-03	TRAFFIC CONTROL DEVICES
780001-04	TYPICAL PAVEMENT MARKINGS

## UTILITY CONTACTS

NAME AND ADDRESS OF UTILITIES	TYPE
COMCAST/BLUE ISLAND ATTN: MARTHA GIERAS 688 INDUSTRIAL DRIVE ELMHURST, IL 60126 (630) 600-6352	CABLE TV
AT&T LEGAL MANDATE GROUP ATTN: KATE PETERS 100 COMMERCE DRIVE OAK BROOK, IL 60523 (630) 573-5759	TELEPHONE
COMED/JOLIET ATTN: TIM COSLET 1910 S. BRIGGS STREET JOLIET, IL 60433-9599 (815) 724-5010	ELECTRIC
NICOR GAS ATTN: CONNIE LANE 1844 FERRY ROAD NAPERVILLE, IL 60563 (630) 388-2362 FAX: (630) 983-0639	GAS
CITY OF JOLIET. 921 EAST WASHINGTON JOLIET, IL 60433 (815) 693-9848	SEWER/WATER

PLAN	DATE	BY
DESIGNED		
CHECKED		
DRAWN		
NOTED		

PROFILE	DATE	BY
DESIGNED		
CHECKED		
DRAWN		
NOTED		



DESIGNED - M.A.H.	REVISED -
CHECKED - G.F.S.	REVISED -
DRAWN - M.A.H.	REVISED -
CHECKED - G.F.S.	REVISED -

**CITY OF JOLIET  
WASHINGTON STREET OVER SPRING CREEK  
STATION 46 + 32**

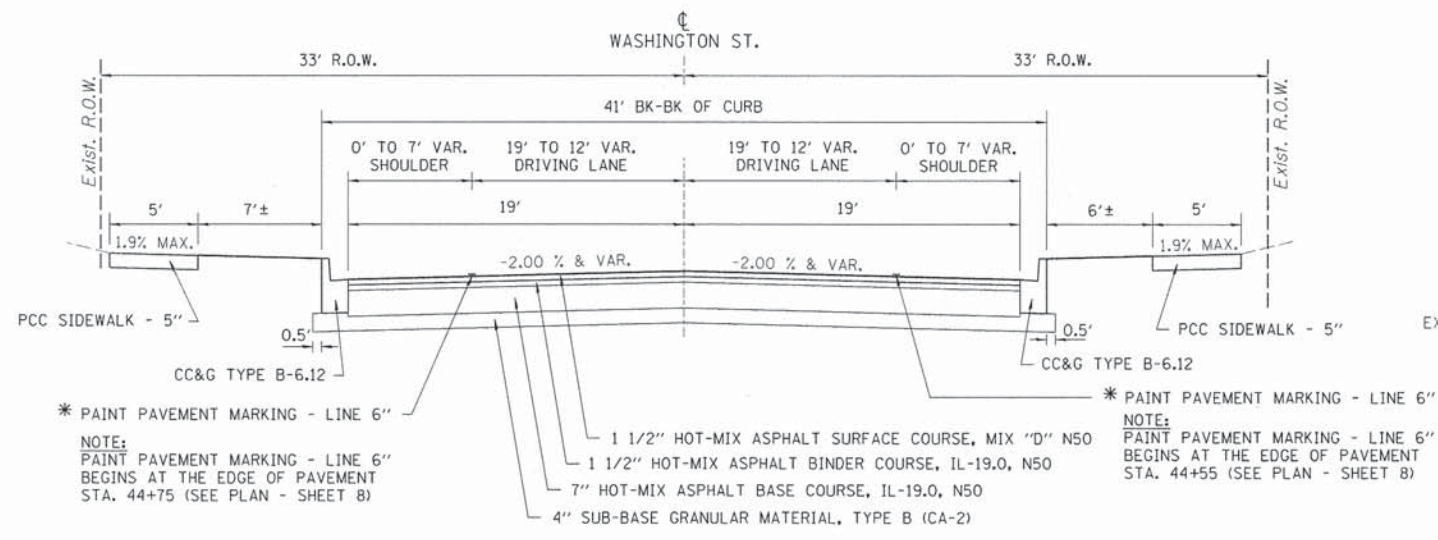
**GENERAL NOTES, CONTROL, STANDARDS, AND UTILITIES  
STRUCTURE NO. 099-6462**

SHEET NO. 1 OF 1 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	09-00426-00-BR	WILL	35	2
	WHA*1143013			
	ILLINOIS	FED. AID PROJECT BRM-9003531		

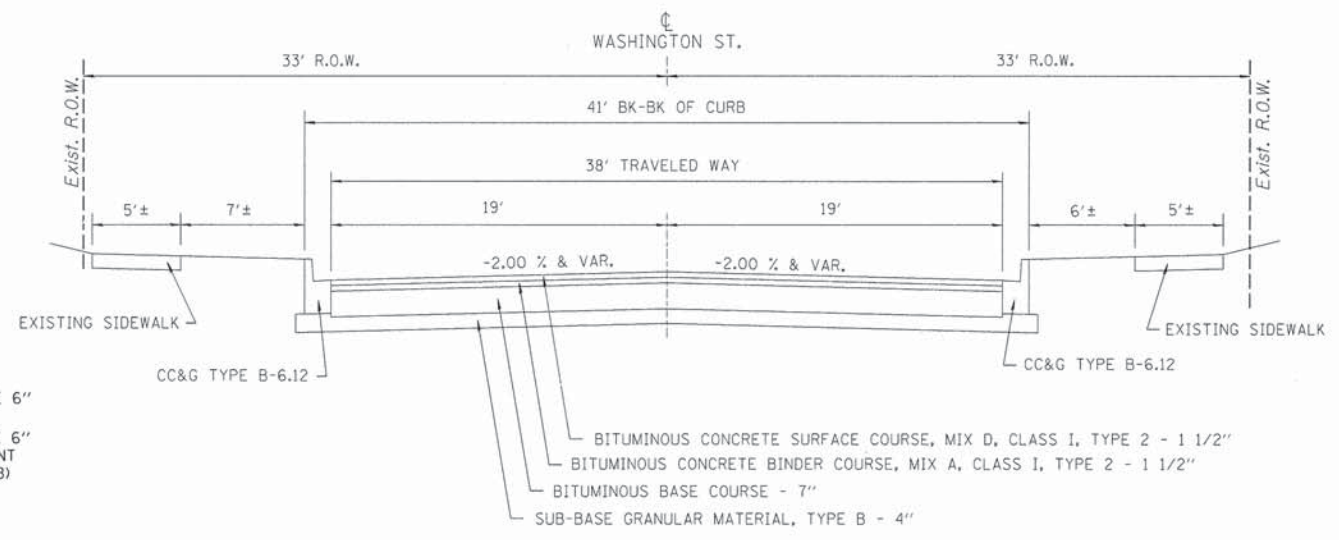


DATE	
BY	
REVISION	
NO.	
DATE	
BY	
REVISION	
NO.	
DATE	
BY	
REVISION	
NO.	



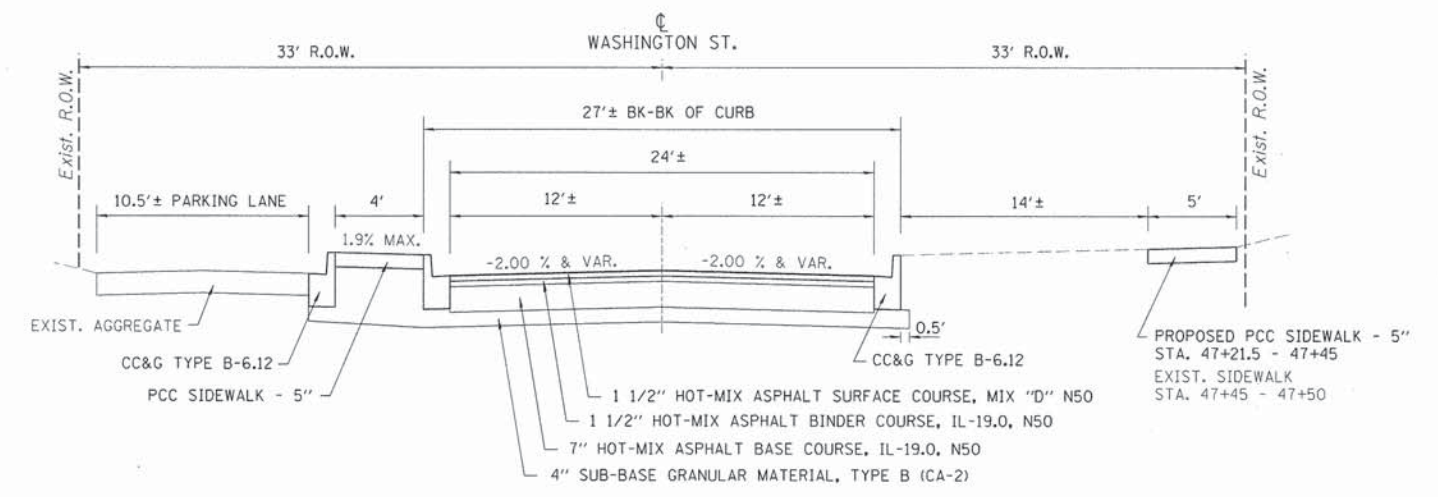
PROPOSED TYPICAL SECTION - STA 45+00 TO 45+75.5

\*(PAINT PAVEMENT MARKING - STA. 44+55 TO 45+75.5)



EXISTING TYPICAL SECTION

DATE	
BY	
REVISION	
NO.	
DATE	
BY	
REVISION	
NO.	



PROPOSED TYPICAL SECTION - STA. 46+88.5 TO 47+50

**PAVEMENT STRUCTURAL DESIGN  
WASHINGTON STREET**

STRUCTURAL DESIGN TRAFFIC (S.D.T.) = YEAR 2024

CLASS II STREET  
80,000\* TRUCK DESIGN

P.V. 4,807  
S.U. 366  
M.U. 52 } 5,225 ADT

E<sub>BI</sub> : (ASSUMED) 2 ksf  
TF = 0.62  
HMA MIX TEMP. 75.5° F  
HMA E<sub>AC</sub> = 680 ksf  
HMA DESIGN STRAIN 138 microstrain

USE (EXIST. WASHINGTON ST. PAVEMENT STRUCTURE)  
1 1/2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50  
1 1/2" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50  
7" HOT-MIX ASPHALT BASE COURSE, IL-19.0, N50  
4" SUB-BASE GRANULAR MATERIAL, TYPE B.

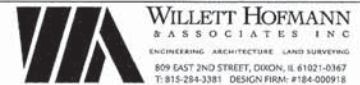
HOT-MIX ASPHALT MIXTURE REQUIREMENTS		QUALITY MANAGEMENT PROGRAM (QMP)
MIXTURE TYPE	AIR VOIDS @ Ndes	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5mm); 1 1/2"	4% @ 50 Gyr.	0c/0a
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 1 1/2"	4% @ 50 Gyr.	0c/0a
HOT-MIX ASPHALT BASE COURSE, IL-19.0, N50 7" (IN 3 LIFTS)	4% @ 50 Gyr.	0c/0a

NOTE: THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG-76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR HMA FULL DEPTH "AC TYPE" SEE 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.



DESIGNED -	M.A.H.	REVISED -	
CHECKED -	G.F.S.	REVISED -	
DRAWN -	M.A.H.	REVISED -	
CHECKED -	G.F.S.	REVISED -	

**CITY OF JOLIET  
WASHINGTON STREET OVER SPRING CREEK  
STATION 46+32**

**TYPICAL SECTIONS & PAVEMENT DESIGN  
STRUCTURE NO. 099-6462**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	09-00426-00-BR	WILL	35	4
WHA*1143013		CONTRACT NO. 61A48		
ILLINOIS FED. AID PROJECT BRM-9003(531)				

NOTE: This document is the copyrighted property of Willett Hofmann & Associates, Inc. and may not be copied or used by any person without written permission. © Copyright 2011 Willett Hofmann & Associates, Inc.

# SCHEDULE OF QUANTITIES

## EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION 20200100	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE 25%	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
WASHINGTON STREET STA. 45+00 TO 47+50	288	216	33	184

### TREE REMOVAL (6 TO 15 UNITS DIAMETER)

STATION	UNIT	REMARKS
WASHINGTON STREET		
30' LT. STA. 45+96	15	
30' LT. STA. 46+08	10	
26' LT. STA. 46+59	15	
44' RT. STA. 46+62	12	
29' LT. STA. 46+69	12	
29' LT. STA. 46+93	6	
32' LT. STA. 46+96	7	
33' LT. STA. 47+06	6	
PROJECT TOTAL	83	

20100110

### TREE REMOVAL (OVER 15 UNITS DIAMETER)

STATION	UNIT	REMARKS
WASHINGTON STREET		
34' RT. STA. 46+03	20	
44' RT. STA. 46+62	18	
29' LT. STA. 46+69	18	
PROJECT TOTAL	56	

20100210

### ROCK EXCAVATION

STATION	CU YD	REMARKS
WASHINGTON STREET		
WATER MAIN -		
7' RT. 45+90 - 7' RT. 46+75	95	
14' RT. 45+90 - 14' RT. 46+75	95	
SANITARY SEWER -		
26' LT. 45+91 - 26' LT. 47+08	118	
26' LT. 47+08 - 22' LT. 47+28	29	
PROJECT TOTAL	337	

20200200

### TRENCH BACKFILL

STATION	CU YD	REMARKS
WASHINGTON STREET		
WATER MAIN -		
28' LT. 45+07 - 28' LT. 45+42	56	
23' RT. 45+21 - 23' RT. 45+46	18	
28' LT. 45+42 - 10' LT. 45+60	40	
23' RT. 45+46 - 14' RT. 45+55	10	
14' RT. 45+55 - 14' RT. 45+82	21	
10' LT. 45+60 - 14' RT. 45+60	38	
7' RT. 45+60 - 7' RT. 45+87	48	
14' RT. 45+82 - 14' RT. 45+95	19	
7' RT. 45+87 - 7' RT. 45+95	14	
7' RT. 45+95 - 7' RT. 46+06	13	
14' RT. 45+95 - 14' RT. 46+06	12	
PROJECT TOTAL	(289)	

20800150

### TRENCH BACKFILL (CONT'D)

STATION	CU YD	REMARKS
WASHINGTON STREET		
WATER MAIN -		
7' RT. 46+59 - 7' RT. 46+70	13	
14' RT. 46+59 - 14' RT. 46+70	12	
7' RT. 46+70 - 7' RT. 46+78	14	
14' RT. 46+70 - 14' RT. 46+83	19	
7' RT. 46+78 - 7' RT. 47+07	48	
54' RT. 46+80 - 69' RT. 46+80	9	
33' RT. 46+82 - 52' RT. 46+82	11	
52' RT. 46+82 - 54' RT. 46+80	1	
14' RT. 46+83 - 14' RT. 47+02	16	
7' RT. 46+98 - 14' RT. 46+98	12	
14' RT. 46+98 - 18' RT. 46+98	3	
18' RT. 46+98 - 33' RT. 46+82	14	
14' RT. 47+02 - 21' RT. 47+09	8	
7' RT. 47+07 - 28' LT. 47+42	85	
21' RT. 47+09 - 21' RT. 47+34	20	
28' LT. 47+42 - 28' LT. 47+77	56	
	(630)	
SANITARY SEWER -		
26' LT. 45+91 - 26' LT. 46+06	39	
26' LT. 46+59 - 26' LT. 47+08	125	
26' LT. 47+08 - 22' LT. 47+28	49	
	(213)	
PROJECT TOTAL	843	

20800150

### NITROGEN FERTILIZER NUTRIENT

STATION	POUND	REMARKS
WASHINGTON STREET		
LT. STA. 46+07 - 46+74	1	0.01 ACRE @ 90 LB / ACRE
PROJECT TOTAL	1	

25000400

### PHOSPHORUS FERTILIZER NUTRIENT

STATION	POUND	REMARKS
WASHINGTON STREET		
LT. STA. 46+07 - 46+74	1	0.01 ACRE @ 90 LB / ACRE
PROJECT TOTAL	1	

25000500

### POTASSIUM FERTILIZER NUTRIENT

STATION	POUND	REMARKS
WASHINGTON STREET		
LT. STA. 46+07 - 46+74	1	0.01 ACRE @ 90 LB / ACRE
PROJECT TOTAL	1	

25000600

### TURF REINFORCEMENT MAT

STATION	SQ YD	REMARKS
WASHINGTON STREET		
LT. STA. 46+07 - 46+15	2	
LT. STA. 46+53 - 46+74	21	
PROJECT TOTAL	23	

25100900

### SODDING, SALT TOLERANT

STATION	SQ YD	REMARKS
WASHINGTON STREET		
LT. STA. 45+00 - 46+06	83	
RT. STA. 45+00 - 46+06	109	
LT. STA. 46+58.5 - 47+03	31	
RT. STA. 46+58.5 - 46+85	68	
RT. STA. 47+20 - 47+50	38	
LT. STA. 47+27 - 47+50	7	
PROJECT TOTAL	336	

25200110

### SUPPLEMENTAL WATERING

STATION	UNIT	REMARKS
WASHINGTON STREET		
CONTINGENCY ITEM	10	10 APPLICATIONS @ 3 GAL/SQ YD
PROJECT TOTAL	10	

25200200

### TEMPORARY EROSION CONTROL SEEDING

STATION	POUND	REMARKS
WASHINGTON STREET		
LT. & RT. STA. 45+00 - 47+50	7	
PROJECT TOTAL	7	

28000250

### PERIMETER EROSION BARRIER

STATION	FOOT	REMARKS
WASHINGTON STREET		
RT. STA. 45+50 - 46+04	54	
LT. STA. 45+61 - 46+06	44	
LT. STA. 46+53	13	
RT. STA. 46+55 - 46+73	17	
LT. STA. 46+64 - 47+03	39	
PROJECT TOTAL	167	

28000400

### SUBBASE GRANULAR MATERIAL, TYPE B 4"

STATION	SQ YD	REMARKS
WASHINGTON STREET		
STA. 45+00 - 45+75.5	319	
STA. 46+88.5 - 47+50	331	
PROJECT TOTAL	650	

31101200

### BITUMINOUS MATERIALS (PRIME COAT)

STATION	POUND	REMARKS
WASHINGTON STREET		
STA. 45+00 - 45+75.5	360	1 APPL @ 0.25 LB/SF ON AGG
STA. 46+88.5 - 47+50	372	1 APPL @ 0.025 LB./SF ON BIT
PROJECT TOTAL	732	

X4060110\*

DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 PLAN NO.: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 ALIGNMENT CHECKED: \_\_\_\_\_  
 CLASS OF WORK CHECKED: \_\_\_\_\_  
 CLASS OF FILE MARK: \_\_\_\_\_

DATE: \_\_\_\_\_ BY: \_\_\_\_\_  
 PROFILE NO.: \_\_\_\_\_  
 SURVEYED: \_\_\_\_\_  
 GRADES CHECKED: \_\_\_\_\_  
 BAL. NOTED: \_\_\_\_\_  
 STRUCTURE NOTATIONS CHECKED: \_\_\_\_\_



DESIGNED - M.A.H. REVISIONS - \_\_\_\_\_  
 CHECKED - G.F.S. REVISIONS - \_\_\_\_\_  
 DRAWN - M.A.H. REVISIONS - \_\_\_\_\_  
 CHECKED - G.F.S. REVISIONS - \_\_\_\_\_

**CITY OF JOLIET**  
**WASHINGTON STREET OVER SPRING CREEK**  
**STATION 46 + 32**

**SCHEDULE OF QUANTITIES**  
**STRUCTURE NO. 099-6462**

SHEET NO. 1 OF 3 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	09-00426-00-BR	WILL	35	5
WHA#1143D13		CONTRACT NO. 61A48		
[ILLINOIS]		FED. AID PROJECT BRM-90035311		

NOTE: This document is the copyrighted property of Willett, Hofmann & Associates, Inc., and may not be copied or used by any person without written permission. © Copyright 2011 Willett, Hofmann & Associates, Inc.

# SCHEDULE OF QUANTITIES

HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 10"		
STATION	SQ YD	REMARKS
WASHINGTON STREET		
STA. 45+00 - 45+75.5	319	
STA. 46+88.5 - 47+50	331	
<b>PROJECT TOTAL</b>	<b>650</b>	

40701881

PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH		
STATION	SQ YD	REMARKS
WASHINGTON STREET		
LT. STA. 47+20	65	
<b>PROJECT TOTAL</b>	<b>65</b>	

42300400

PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH		
STATION	SQ FT	REMARKS
WASHINGTON STREET		
LT. STA. 45+50 - 45+75.5	138	
RT. STA. 45+50 - 45+75.5	138	
RT. STA. 46+58.5 - 46+83.4	190	
LT. STA. 46+88.5 - 46+97	51	
RT. STA. 47+21.5 - 47+45	123	
LT. STA. 47+41 - 47+50	36	
<b>PROJECT TOTAL</b>	<b>676</b>	

42400200

DETECTABLE WARNINGS		
STATION	SQ FT	REMARKS
WASHINGTON STREET		
RT. STA. 46+79	10	2' X 5'
LT. STA. 46+96	10	2' X 5'
RT. STA. 47+25	10	2' X 5'
LT. STA. 47+42	8	2' X 4'
<b>PROJECT TOTAL</b>	<b>38</b>	

42400800

PAVEMENT REMOVAL		
STATION	SQ YD	REMARKS
WASHINGTON STREET		
45+00 - 46+02.25	409	EXIST. BIT. PAVEMENT - 10"±
46+61.75 - 47+50	437	EXIST. BIT. PAVEMENT - 10"±
<b>PROJECT TOTAL</b>	<b>846</b>	

44000100

DRIVEWAY PAVEMENT REMOVAL		
STATION	SQ YD	REMARKS
WASHINGTON STREET		
LT. STA. 45+35 - 45+73	32	EXIST. DRIVEWAY PAVEMENT - 7"±
<b>PROJECT TOTAL</b>	<b>32</b>	

44000200

COMBINATION CURB AND GUTTER REMOVAL		
STATION	FOOT	REMARKS
WASHINGTON STREET		
LT. STA. 45+00 - 46+06	106	
RT. STA. 45+00 - 46+06	106	
LT. STA. 46+65 - 47+11	54	
RT. STA. 46+73 - 46+85	30	
RT. STA. 47+19 - 47+50	52	
LT. STA. 47+45 - 47+50	12	
<b>PROJECT TOTAL</b>	<b>360</b>	

44000500

SIDEWALK REMOVAL		
STATION	SQ FT	REMARKS
WASHINGTON STREET		
LT. STA. 45+50 - 46+06	288	EXIST. SIDEWALK - 5"±
RT. STA. 45+50 - 46+06	293	EXIST. SIDEWALK - 5"±
LT. STA. 46+59 - 47+07	249	EXIST. SIDEWALK - 5"±
RT. STA. 46+59 - 46+85	226	EXIST. SIDEWALK - 5"±
RT. STA. 47+21 - 47+45	122	EXIST. SIDEWALK - 5"±
LT. STA. 47+46 - 47+50	16	EXIST. SIDEWALK - 5"±
<b>PROJECT TOTAL</b>	<b>1,194</b>	

44000600

STORM SEWERS, CLASS A, TYPE 2 15"		
STATION	FOOT	REMARKS
WASHINGTON STREET		
LT. STA. 46+57 - 46+77	20	REMOVE EXISTING STORM SEWER
<b>PROJECT TOTAL</b>	<b>20</b>	

550A0360

DUCTILE IRON WATER MAIN 6"		
STATION	FOOT	REMARKS
WASHINGTON STREET		
WATER MAIN -		
54' RT. 46+80 - 64' LT. 46+80	10	
52' RT. 46+82 - 54' RT. 46+80	2	
33' RT. 46+82 - 52' RT. 46+82	19	
18' RT. 46+98 - 33' RT. 46+82	22	
16' RT. 46+98 - 18' RT. 46+98	2	
<b>PROJECT TOTAL</b>	<b>55</b>	

56103000\*

DUCTILE IRON WATER MAIN 12"		
STATION	FOOT	REMARKS
WASHINGTON STREET		
WATER MAIN -		
23' RT. 45+36 - 23' RT. 45+46	10	
28' LT. 45+37 - 28' LT. 45+42	5	
28' LT. 45+42 - 10' LT. 45+60	25	
23' RT. 45+46 - 14' RT. 45+55	13	
14' RT. 45+55 - 14' RT. 45+82	27	
10' LT. 45+60 - 14' RT. 45+60	24	
7' RT. 45+60 - 7' RT. 45+87	27	
7' RT. 45+60	5	
23' RT. 45+71 - 23' RT. 45+81	10	
14' RT. 45+82 - 14' RT. 45+95	18	
7' RT. 45+87 - 7' RT. 45+95	11	
7' RT. 45+95 - 7' RT. 46+70	75	
14' RT. 45+95 - 14' RT. 46+70	75	
21' RT. 46+64 - 21' RT. 46+74	10	
7' RT. 46+70 - 7' RT. 46+78	11	
	(346)	
<b>PROJECT TOTAL</b>	<b>56103300*</b>	

DUCTILE IRON WATER MAIN 12" (CONT'D)		
STATION	FOOT	REMARKS
WASHINGTON STREET		
14' RT. 46+70 - 14' RT. 46+83	18	
7' RT. 46+78 - 7' RT. 47+07	29	
14' RT. 46+83 - 14' RT. 47+02	19	
7' RT. 46+98 - 14' RT. 46+98	7	
7' RT. 46+98	5	
14' RT. 46+98 - 16' RT. 46+98	2	
14' RT. 47+02 - 21' RT. 47+09	10	
7' RT. 47+07 - 28' LT. 47+42	49	
21' RT. 47+09 - 21' LT. 47+19	10	
28' LT. 47+42 - 28' LT. 47+47	5	
<b>PROJECT TOTAL</b>	<b>500</b>	

56103300\*

DUCTILE IRON WATER MAIN 14"		
STATION	FOOT	REMARKS
WASHINGTON STREET		
WATER MAIN -		
28' LT. 45+27 - 28' LT. 45+37	10	
28' LT. 47+47 - 28' LT. 47+57	10	
<b>PROJECT TOTAL</b>	<b>20</b>	

56103310\*

WATER VALVE 6"		
STATION	EACH	REMARKS
WASHINGTON STREET		
WATER MAIN -		
49' RT. STA. 46+82	1	
<b>PROJECT TOTAL</b>	<b>1</b>	

56104900\*

WATER VALVE 12"		
STATION	EACH	REMARKS
WASHINGTON STREET		
WATER MAIN -		
28' LT. STA. 45+40	1	
14' RT. STA. 45+57	1	
10' RT. STA. 45+60	1	
23' RT. STA. 45+76	1	
21' RT. STA. 46+69	1	
10' RT. STA. 46+98	1	
14' RT. STA. 47+00	1	
28' LT. STA. 47+44	1	
<b>PROJECT TOTAL</b>	<b>8</b>	

56105200\*

WATER VALVES TO BE ADJUSTED		
STATION	EACH	REMARKS
WASHINGTON STREET		
LT. STA. 45+84	1	
<b>PROJECT TOTAL</b>	<b>1</b>	

56109210

DATE	BY	SURVEYED	CHECKED
		ALIGNMENT	CHECKED
		PLAN	CHECKED
		NOTE BOOK	CHECKED
		NO.	
		DATE	
		FILE NAME	

DATE	BY	SURVEYED	CHECKED
		GRADES	CHECKED
		STRUCTURE	NOTING
		NO.	
		DATE	
		FILE NAME	



DESIGNED - M.A.H.	REVISED -
CHECKED - G.F.S.	REVISED -
DRAWN - M.A.H.	REVISED -
CHECKED - G.F.S.	REVISED -

**CITY OF JOLIET**  
**WASHINGTON STREET OVER SPRING CREEK**  
**STATION 46+32**

**SCHEDULE OF QUANTITIES**  
**STRUCTURE NO. 099-6462**

SHEET NO. 2 OF 3 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	09-00426-00-BR	WILL	35	6
WHA*1143013		CONTRACT NO. 61A48		
[ILLINOIS]		FED. AID PROJECT BRM-90035311		

NOTE: This document is the copyrighted property of Willett, Hofmann & Associates, Inc., and may not be copied or used by any person without written permission. © Copyright 2011 Willett, Hofmann & Associates, Inc.

# SCHEDULE OF QUANTITIES

FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX		
STATION	EACH	REMARKS
WASHINGTON STREET		
WATER MAIN -		
25' LT. STA. 45+59	1	
46' RT. STA. 46+77	1	
PROJECT TOTAL	1	

COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.18		
STATION	FOOT	REMARKS
WASHINGTON STREET		
RT. STA. 46+70 - 46+86	33	
RT. STA. 47+19 - 47+28	28	
PROJECT TOTAL	61	

PAINT PAVEMENT MARKING - LINE 24"		
STATION	FOOT	REMARKS
WASHINGTON STREET		
RT. STA. 47+03 - 47+18	15	STOP BAR (WHITE)
PROJECT TOTAL	15	

MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID		
STATION	EACH	REMARKS
WASHINGTON STREET		
SANITARY SEWER -		
26' LT. STA. 45+91	1	
26' LT. STA. 47+08	1	
22' LT. STA. 47+28	1	
PROJECT TOTAL	3	

MISCELLANEOUS CONCRETE		
STATION	CU YD	REMARKS
WASHINGTON STREET		
WATER MAIN -		
7' RT. 46+00 - 7' RT. 46+64	20	WATER MAIN PROTECTION SLAB (SEE SPEC. PROVISIONS)
14' RT. 46+00 - 14' RT. 46+64	20	
PROJECT TOTAL	40	

SEEDING (SPECIAL)		
STATION	ACRE	REMARKS
WASHINGTON STREET		
LT. STA. 46+53 - 46+74	0.01	
PROJECT TOTAL	0.01	

VALVE VAULTS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID		
STATION	EACH	REMARKS
WASHINGTON STREET		
WATER MAIN -		
7' RT. STA. 45+66	1	
7' RT. STA. 46+94	1	
14' RT. STA. 45+66	1	
14' RT. STA. 46+94	1	
PROJECT TOTAL	4	

GUARDRAIL REMOVAL		
STATION	FOOT	REMARKS
WASHINGTON STREET		
LT. STA. 46+59 - 47+09	52	
PROJECT TOTAL	52	

TOPSOIL FURNISH AND PLACEMENT, SPECIAL		
STATION	CU YD	REMARKS
WASHINGTON STREET		
LT. & RT. STA. 45+00 - 47+50	42	4" MIN. IN ALL DISTURBED AREAS
PROJECT TOTAL	42	

FRAME AND GRATES TO BE ADJUSTED		
STATION	EACH	REMARKS
WASHINGTON STREET		
RT. STA. 45+29	1	
LT. STA. 45+90	1	
RT. STA. 46+81	1	
RT. STA. 47+03	1	
LT. STA. 47+28	1	
PROJECT TOTAL	5	

PAINT PAVEMENT MARKING - LINE 4"		
STATION	FOOT	REMARKS
WASHINGTON STREET		
STA. 45+00 - 46+70	340	CENTERLINE (DBL YLW)
STA. 47+30 - 47+50	40	CENTERLINE (DBL YLW)
PROJECT TOTAL	380	

CONCRETE ENCASEMENT		
STATION	CU YD	REMARKS
WASHINGTON STREET		
SANITARY SEWER -		
26' LT. 46+01 - 26' LT. 46+64	11	
PROJECT TOTAL	11	

COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12		
STATION	FOOT	REMARKS
WASHINGTON STREET		
LT. STA. 45+00 - 45+75.5	75.5	
RT. STA. 45+00 - 45+75.5	75.5	
LT. STA. 46+88.5 - 47+50	62	
RT. STA. 47+28 - 47+50	23	
PROJECT TOTAL	236	

PAINT PAVEMENT MARKING - LINE 6"		
STATION	FOOT	REMARKS
WASHINGTON STREET		
RT. STA. 44+55 - 46+85	236	NO PARKING (WHITE)
LT. STA. 44+75 - 46+97	223	NO PARKING (WHITE)
RT. STA. 46+85 - 47+22	73	CROSSWALK (WHITE)
PROJECT TOTAL	532	

WATER MAIN LINE STOP, 12"		
STATION	EACH	REMARKS
WASHINGTON STREET		
WATER MAIN -		
23' RT. STA. 45+26	1	
21' RT. STA. 47+29	1	
PROJECT TOTAL	2	

COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12		
STATION	FOOT	REMARKS
WASHINGTON STREET		
LT. STA. 45+00 - 45+75.5	75.5	
RT. STA. 45+00 - 45+75.5	75.5	
LT. STA. 46+88.5 - 47+50	62	
RT. STA. 47+28 - 47+50	23	
PROJECT TOTAL	236	

PAINT PAVEMENT MARKING - LINE 12"		
STATION	FOOT	REMARKS
WASHINGTON STREET		
RT. STA. 44+55 - 46+85	90	NO PARKING (WHITE)
LT. STA. 44+75 - 46+97	75	NO PARKING (WHITE)
PROJECT TOTAL	165	

WATER MAIN LINE STOP, 14"		
STATION	EACH	REMARKS
WASHINGTON STREET		
WATER MAIN -		
28' RT. STA. 45+17	1	
28' RT. STA. 47+67	1	
PROJECT TOTAL	2	

SANITARY SEWER 24"		
STATION	FOOT	REMARKS
WASHINGTON STREET		
SANITARY SEWER -		
26' LT. 45+91 - 26' LT. 47+08	118	
26' LT. 47+08 - 22' LT. 47+28	20	
PROJECT TOTAL	138	

DATE	BY	REVISIONS	PLANNING	DESIGNED	CHECKED	DRAWN	NOTED

DATE	BY	REVISIONS	PLANNING	DESIGNED	CHECKED	DRAWN	NOTED



DESIGNED -	M.A.H.	REVISED -	
CHECKED -	G.F.S.	REVISED -	
DRAWN -	M.A.H.	REVISED -	
CHECKED -	G.F.S.	REVISED -	

**CITY OF JOLIET**  
**WASHINGTON STREET OVER SPRING CREEK**  
**STATION 46+32**

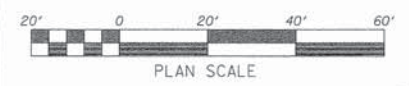
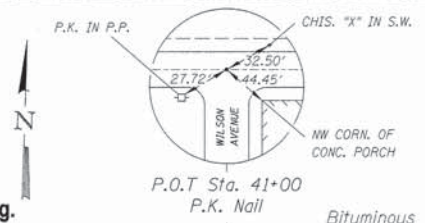
**SCHEDULE OF QUANTITIES**  
**STRUCTURE NO. 099-6462**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	09-00426-00-BR	WILL	35	7
WHA*1143D13			CONTRACT NO. 61A48	
ILLINOIS FED. AID PROJECT BRM-900353U				

NOTE: This document is the copyrighted property of Willett, Hofmann & Associates, Inc. and may not be copied or used by any person without written permission. © Copyright 2011 Willett, Hofmann & Associates, Inc.



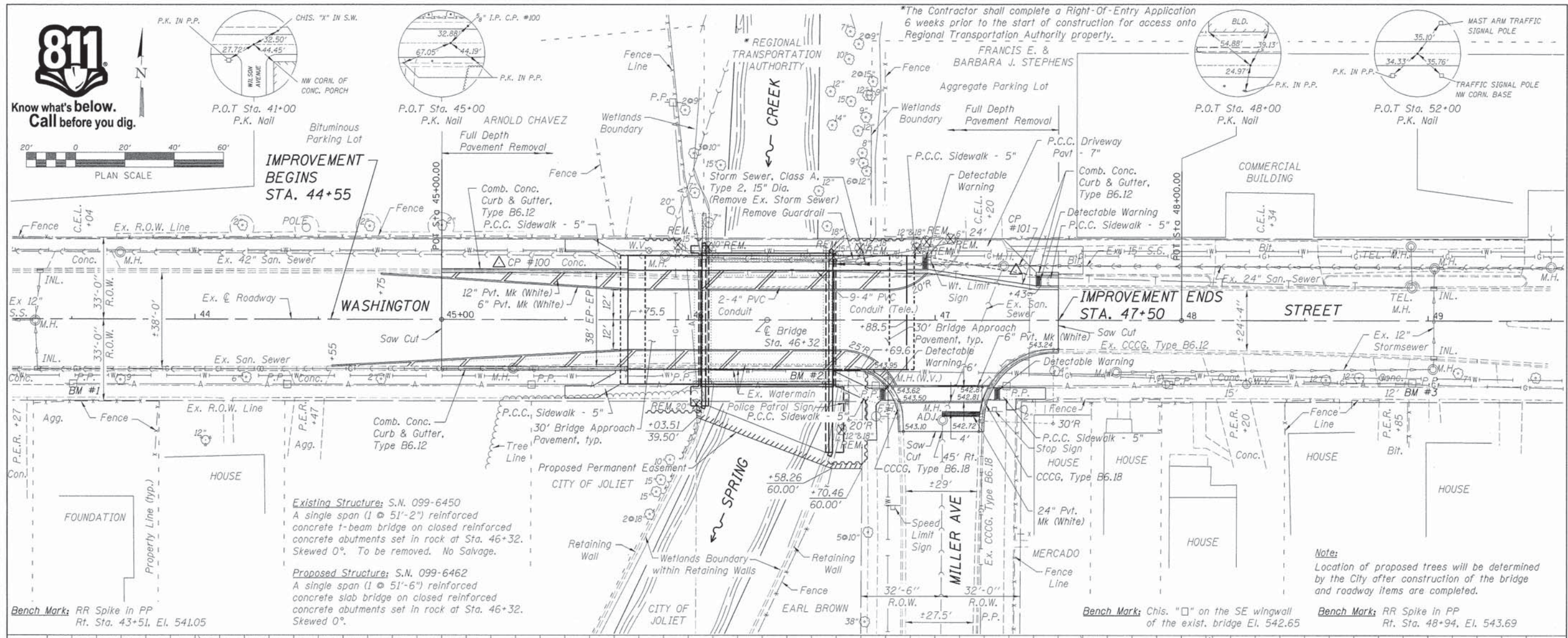
Know what's below. Call before you dig.



IMPROVEMENT BEGINS STA. 44+55

IMPROVEMENT ENDS STA. 47+50

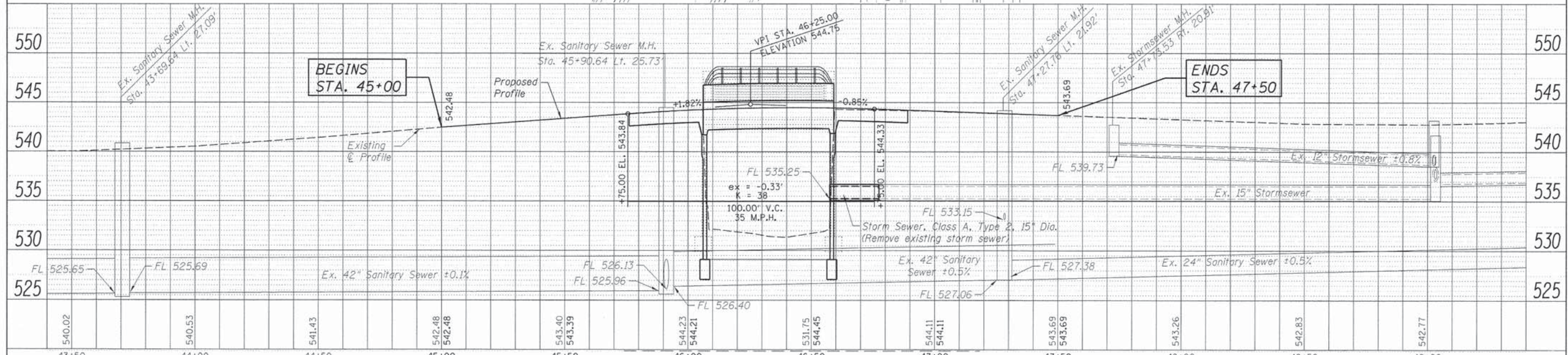
STREET



Existing Structure: S.N. 099-6450 A single span (1 @ 51'-2") reinforced concrete 1-beam bridge on closed reinforced concrete abutments set in rock at Sta. 46+32. Skewed 0°. To be removed. No Salvage.

Proposed Structure: S.N. 099-6462 A single span (1 @ 51'-6") reinforced concrete slab bridge on closed reinforced concrete abutments set in rock at Sta. 46+32. Skewed 0°.

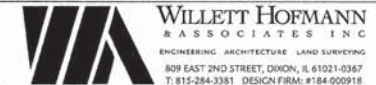
Note: Location of proposed trees will be determined by the City after construction of the bridge and roadway items are completed.



BEGINS STA. 45+00

ENDS STA. 47+50

43+50	44+00	44+50	45+00	45+50	46+00	46+50	47+00	47+50	48+00	48+50	49+00
540.02	540.53	541.43	542.48	543.40	544.23	544.45	544.11	543.69	543.26	542.83	542.77



DESIGNED	M.A.H.	REVISED	
CHECKED	G.F.S.	REVISED	
DRAWN	M.A.H.	REVISED	
CHECKED	G.F.S.	REVISED	

CITY OF JOLIET WASHINGTON STREET OVER SPRING CREEK STATION 46+32

PLAN AND PROFILE STRUCTURE NO. 099-6462 SCALE: 1" = 20' SHEET NO. 1 OF 1 SHEETS STA. 43+50 TO STA. 49+50

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	09-00426-00-BR	WILL	35	8
WHA*1143013		CONTRACT NO. 61A48		
ILLINOIS FED. AID PROJECT BRM-9003(5)31				



DETOUR GENERAL NOTES

1. ALL SIGNING SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTIONS ADOPTED JAN. 1, 2012", "THE QUALITY STANDARD FOR WORK ZONE TRAFFIC CONTROL DEVICES ADOPTED 1990", THE DETAILS IN THESE PLANS, AND THE LATEST EDITION OF THE STATE OF ILLINOIS "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".
2. THE CONTRACTOR SHALL SCHEDULE ALL WORK IN AN EXPEDIENT MANNER TO REDUCE THE LENGTH OF TIME THAT THE DETOUR NEEDS TO BE IN EFFECT.
3. THE ENGINEER SHALL BE NOTIFIED IN WRITING AT LEAST THREE WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT. THE ENGINEER WILL CONTACT THE APPROPRIATE LOCAL AGENCIES AND INTERESTED PARTIES FOR APPROVAL OF SUCH DATE.
4. IF DEEMED NECESSARY BY THE ENGINEER A PRE-CONSTRUCTION MEETING WITH THE CONTRACTOR SHALL BE HELD AT LEAST TWO WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT.
5. THE CONTRACTOR SHALL SUPPLY TO THE ENGINEER THE NAMES AND TELEPHONE NUMBERS OF HIS REPRESENTATIVES ON THE CONSTRUCTION SITE AND HIS REPRESENTATIVES FOR THE DETOUR SIGNING PRIOR TO THE START OF WORK.  
THE CITY OF JOLIET REPRESENTATIVE FOR THE DETOUR IS:  
MR. MARK SEFCIK  
DEPARTMENT OF PUBLIC WORKS  
921 E WASHINGTON ST.  
(815) 724-4218
6. IF REQUESTED BY THE CONTRACTOR IN WRITING AT LEAST THREE WEEKS PRIOR TO THE DAY THE DETOUR IS TO BE IN EFFECT THE ENGINEER WILL FIELD LOCATE THE POSITIONS OF ANY SIGNS.
7. LONGITUDINAL DIMENSIONS SHOWN ON THE PLANS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
8. THE ROAD SHALL NOT BE CLOSED UNTIL ALL SIGNING IS ERECTED IN ACCORDANCE WITH THE DETOUR PLAN AND INSPECTED AND APPROVED BY THE ENGINEER.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL BARRICADES, SIGNS, LIGHTS, AND OTHER DEVICES INSTALLED BY HIM ARE IN PLACE AND OPERATING 24 HOURS EACH DAY INCLUDING SUNDAYS AND HOLIDAYS DURING THE TIME THE DETOUR IS IN EFFECT.
10. THE CONTRACTOR SHALL MAKE ALL CHANGES IN SIGNING THAT ARE DEEMED NECESSARY BY THE ENGINEER.
11. ALL EXISTING SIGNING THAT IS NOT APPLICABLE WHILE THE DETOUR IS IN EFFECT SHALL BE COMPLETELY COVERED BY THE CONTRACTOR, IN A MANNER APPROVED BY THE ENGINEER.
12. ALL DETOUR SIGNING SHALL BE POST MOUNTED IF THE ROAD CLOSURE IS TO EXCEED FOUR (4) CALENDAR DAYS.
13. ALL DETOUR SIGNING EXCEPT REGULATORY SIGNS SHALL HAVE BLACK LEGENDS ON FLUORESCENT ORANGE SHEETING AND STANDARD BLACK BORDERS. THE FLUORESCENT ORANGE REFLECTIVE SHEETING SHALL MEET THE REQUIREMENTS OF ARTICLE 1106.02 OF THE STANDARD SPECIFICATIONS. ALL DETOUR SIGNING SHALL BE NEW OR LIKE NEW CONDITION. THE ENGINEER SHALL BE THE SOLE JUDGE OF THE CONDITION AND ACCEPTANCE OF THE SIGNS.
14. THE SIZES OF ALL SIGNS NOT SPECIFIED IN THESE PLANS SHALL BE AS REQUIRED BY THE ILLINOIS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
15. AS A MINIMUM, ALL AMBER FLASHING LIGHTS THAT ARE REQUIRED FOR THIS DETOUR SHALL MEET THE REQUIREMENTS FOR TYPE A-LOW INTENSITY FLASHING LIGHTS IN ARTICLE 1106.02 OF THE STANDARD SPECIFICATIONS. ALL LIGHTS SHALL OPERATE DURING THE HOURS OF DARKNESS. ONLY LIGHTS THAT HAVE BEEN APPROVED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION SHALL BE USED.
16. THE MINIMUM DIMENSIONS OF THE ORANGE WARNING FLAGS SHOWN IN THE PLANS ARE 18" X 18".
17. ALL BARRICADES SHALL HAVE REFLECTORIZED STRIPING ON BOTH SIDES OF THE BARRICADES. THE TYPE III BARRICADES USED AT THE POINT OF CLOSURE TO THRU TRAFFIC SHALL NOT EXCEED 9'-0" IN WIDTH EACH, FOR A SINGLE APPROACH LANE.
18. THE "ROAD CLOSED" (R11-2) AND THE "BRIDGE OUT XX MILES AHEAD LOCAL TRAFFIC ONLY" (R11-3b) SIGNS SHALL BE MOUNTED ABOVE THE TOP OF THE BARRICADE. ALL TYPE III BARRICADES SHALL HAVE TWO (2) AMBER TYPE A-LOW INTENSITY FLASHING LIGHTS SPACED NEAR THE CENTERLINE OF THE SUPPORTS.
19. THE ROAD NAME SIGN SHALL HAVE A BLACK LEGEND ON FLUORESCENT ORANGE REFLECTIVE SHEETING. THE SIGN BLANK SHALL BE A 9" BY VARIABLE OR A 12" BY VARIABLE WITH DESIGN SERIES C LETTERS. THE CAPITAL LETTERS SHALL BE 6" WITH 5" LOWER CASE.
20. DURING NON-WORKING HOURS AT THE POINT OF ROAD CLOSURE TO ALL TRAFFIC THE CONTRACTOR SHALL PROVIDE A MEANS TO RESTRAIN THE BARRICADES FROM EASY MOVEMENT BY VANDALS. THE CHOSEN METHOD SHALL BE APPROVED BY THE ENGINEER.
21. CONSTRUCTION EQUIPMENT SHALL NOT BE PARKED IMMEDIATELY BEHIND THE TYPE III BARRICADES DURING NON-WORKING HOURS. IN ANY EVENT ARTICLE 701.04 OF THE STANDARD SPECIFICATIONS SHALL APPLY.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE VISIBILITY OF ALL DETOUR AND CONSTRUCTION SIGNING. BRUSHING BACK VEGETATION IF DEEMED NECESSARY BY THE ENGINEER.
23. THE FOLLOWING ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARDS ARE APPLICABLE FOR THIS WORK:  
STANDARD 280001, 424001, 701301, 701501, 701801, 701901, AND 780001
24. THE ENGINEER SHALL BE NOTIFIED AT LEAST TWO (2) DAYS BEFORE THE ROAD IS TO BE OPENED TO TRAFFIC. THE ENGINEER WILL CONTACT THE APPROPRIATE LOCAL AGENCIES AND INTERESTED PARTIES.
25. THE PENALTY FOR EXCEEDING THE TIME LIMIT, AS STATED IN DETOUR GENERAL NOTE TWO OF THESE PLANS, SHALL EQUAL THE CHARGE OF TRAFFIC CONTROL DEFICIENCY OF \$ PER HOUR, FOR EVERY HOUR THE DETOUR AND ROAD CLOSURE EXCEEDS THE TIME LIMIT SET IN THE DETOUR GENERAL NOTE TWO. THIS PENALTY CAN BE ASSESSED IN ADDITION TO THE PENALTY SPECIFIED IN THE SPECIAL PROVISIONS FOR TRAFFIC CONTROL AND PROTECTION AND BOTH PENALTIES CAN BE CHARGED CONCURRENTLY.

DATE	
BY	
REVISIONS	
PLOTTED	
ALIGNED	
CHECKED	
CAD FILE NAME	
PLAN	
NOTE BOOK	
NO.	

DATE	
BY	
REVISIONS	
PLOTTED	
GRADES CHECKED	
STRUCTURE NOTATIONS CHECKED	
PROFILE	
NOTE BOOK	
NO.	



DESIGNED -	M.A.H.	REVISED -	
CHECKED -	G.F.S.	REVISED -	
DRAWN -	M.A.H.	REVISED -	
CHECKED -	3-7-2014	REVISED -	

**CITY OF JOLIET  
WASHINGTON STREET OVER SPRING CREEK  
STATION 46 + 32**

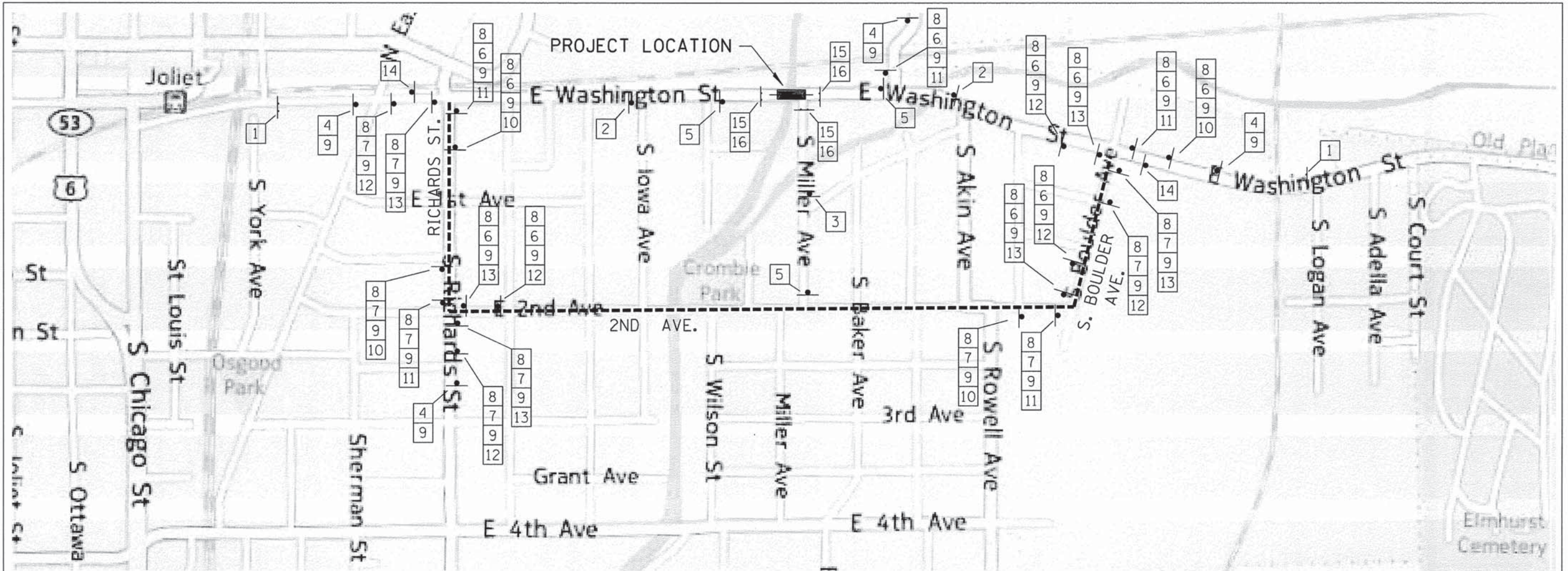
**DETOUR PLAN  
STRUCTURE NO. 099-6462**

SHEET NO. 1 OF 2 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	09-00426-00-BR	WILL	35	9
	WHA*1143013		CONTRACT NO. 61A48	
ILLINOIS FED. AID PROJECT BRM-9003531				

DATE	
BY	
PLAN	
SURVEYED	
PLOTTED	
CHECKED	
DATE	
BY	
NOTE BOOK	
NO.	
DATE	
BY	
NOTE BOOK	
NO.	

DATE	
BY	
PROFILE	
SURVEYED	
PLOTTED	
CHECKED	
DATE	
BY	
NOTE BOOK	
NO.	
DATE	
BY	
NOTE BOOK	
NO.	



**SIGN LEGEND**

- ① CHANGABLE MESSAGE SIGN
- ② BRIDGE OUT AHEAD LOCAL TRAFFIC ONLY  
R11-3b WITH 2 AMBER FLASHING LIGHTS (2 REQ'D)
- ③ ROAD CLOSED TO THRU TRAFFIC  
R11-4 60" x 30" (1 REQ'D)
- ④ DETOUR AHEAD  
W20-2, 48" X 48" WITH AMBER FLASHING LIGHTS AND FLAG. (4 REQ'D)
- ⑤ ROAD CLOSED 500 FT  
W20-3, 48" X 48" WITH AMBER FLASHING LIGHTS AND FLAG. (3 REQ'D)
- ⑥ WEST  
M3-4 (11 REQ'D)
- ⑦ EAST  
M3-2 (10 REQ'D)
- ⑧ DETOUR  
M4-8 (21 REQ'D)
- ⑨ Washington Street  
M1-100 (25 REQ'D)
- ⑩  
M5-1 L (4 REQ'D)
- ⑪  
M6-1 (5 REQ'D)
- ⑫  
M5-1 R (6 REQ'D)
- ⑬  
M6-1 (6 REQ'D)
- ⑭ END DETOUR  
M4-8A (2 REQ'D)
- ⑮ ROAD CLOSED  
R11-2 (3 REQ'D)
- ⑯ TYPE III BARRICADES WITH TWO FLASHING LIGHTS EACH. (7 REQ'D)

**LEGEND**

- DETOUR ROUTE
- ==== ROAD OPEN TO LOCAL TRAFFIC ONLY
- ③ 48" X 48" CONSTRUCTION SIGN WITH AMBER FLASHING LIGHT AND ORANGE WARNING FLAG (OPTIONAL) NUMBER DENOTES SIGN TYPE
- ⑤ DETOUR SIGNS, NUMBER DENOTES TYPE



**SPECIAL DETOUR NOTES**

1. THE CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO THE DETOUR GENERAL NOTES ON SHEET 2 OF THIS DETOUR PLAN.
2. SEE SHEET 1 OF THIS DETOUR PLAN FOR THE DESIGN AND LOCATION OF THE DETOUR INFORMATION SIGNS.
3. SEVEN (7) TYPE III BARRICADES AT THREE (3) LOCATIONS WILL BE NEEDED FOR THIS DETOUR AND CLOSURE.
4. THE TOTAL LENGTH OF THE DETOUR IS 1.2 MILES.
5. ALL DETOUR SIGNS SHALL BE COMPLETELY COVERED AT ALL TIMES THE ROADWAY IS NOT CLOSED TO TRAFFIC



DESIGNED	- M.A.H.	REVISED	-
CHECKED	- G.F.S.	REVISED	-
DRAWN	- M.A.H.	REVISED	-
CHECKED	- G.F.S.	REVISED	-

**CITY OF JOLIET**  
**WASHINGTON STREET OVER SPRING CREEK**  
**STATION 46 + 32**

**DETOUR PLAN**  
**STRUCTURE NO. 099-6462**

SHEET NO. 2 OF 2 SHEETS

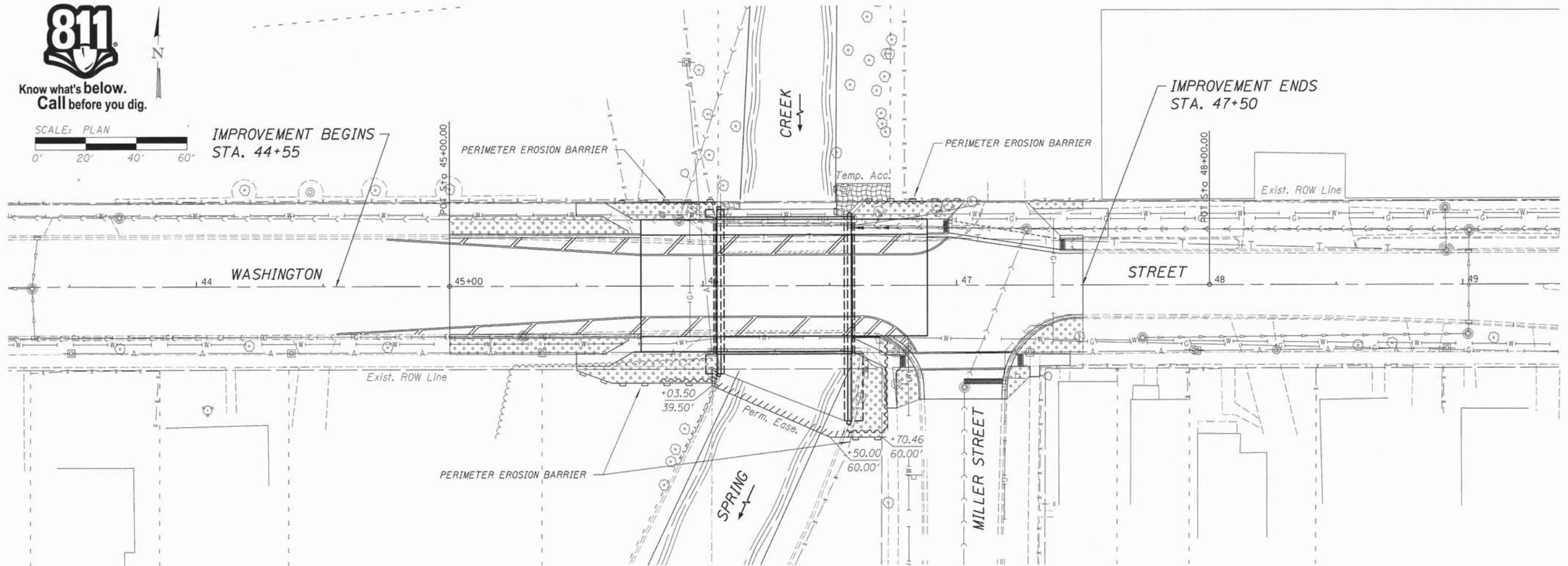
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	09-00426-00-BR	WILL	35	10
WHA*1143013			CONTRACT NO. 61A48	
ILLINOIS FED. AID PROJECT BRM-90031531				



Know what's below.  
Call before you dig.



IMPROVEMENT BEGINS  
STA. 44+55



IMPROVEMENT ENDS  
STA. 47+50

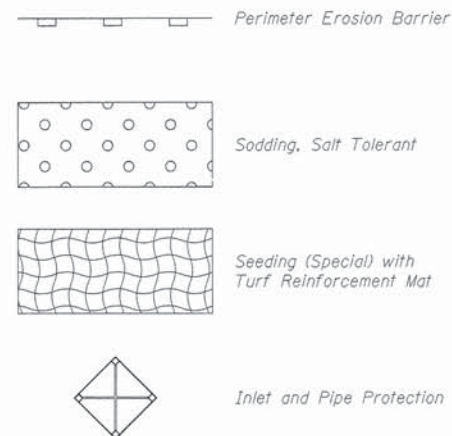
**REQUIREMENTS FOR IN-STREAM CONSTRUCTION ACTIVITIES**

The U.S. Army Corps of Engineers shall be contacted for a review of the proposed in-stream work plan which must be approved by this office prior to the commencement of work. The plan shall meet the erosion and sediment control standards listed below and include means and methods for completing work within a waterway. All cofferdams shall be constructed to allow the passage of high flows, maintain downstream flows, and withstand anticipated erosive forces. Cofferdams shall be designed and installed so as not to impede the movement of aquatic organisms.

Work within the waterway must meet the following standards:

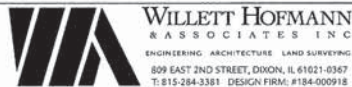
1. Work in the waterway should be timed to take place during low or no-flow conditions. Low flow conditions are flow at or below the normal water elevation.
2. Water shall be isolated from the in-stream work area using a cofferdam constructed of non-erodible materials (steel sheets, aqua barriers, rip rap and geotextile liner, etc.). Earthen cofferdams are not permissible.
3. The cofferdam must be constructed from the upland area and no equipment may enter flowing water at any time. If the installation of the cofferdam cannot be completed from shore and access is needed to reach the area to be coffered, other measures, such as the construction of a causeway will be necessary to ensure that equipment does not enter the water. Once the cofferdam is in place and the isolated area is dewatered, equipment may enter the coffered area to perform the required work.
4. If bypass pumping is necessary, the intake hose shall be placed on a stable surface or floated to prevent sediment from entering the hose. The bypass discharge shall be placed on a non-erodible, energy dissipating surface prior to rejoining the stream flow and shall not cause erosion. Filtering of bypass water is not necessary unless the bypass water has become sediment-laden as a result of the current construction activities.
5. During dewatering of the coffered work area, all sediment-laden water must be filtered to remove sediment. Possible options for sediment removal include baffle systems, anionic polymers systems, dewatering bags, or other appropriate methods. Water shall have sediment removed prior to being re-introduced to the downstream waterway. A stabilized conveyance from the dewatering device to the waterway must be identified in the plan. Discharge water is considered clean if it does not result in a visually identifiable degradation of water clarity.
6. The portion of the side slope that is above the observed water elevation shall be stabilized as specified in the plans prior to accepting flows. The substrate and toe of slope that has been disturbed due to construction activities shall be restored to proposed or pre-construction conditions and fully stabilized prior to accepting flows.

**LEGEND**



**BILL OF MATERIAL**

Item	Unit	Quantity
Nitrogen Fertilizer Nutrient	Pound	1
Phosphorus Fertilizer Nutrient	Pound	1
Potassium Fertilizer Nutrient	Pound	1
Turf Reinforcement Mat	Sq. Yd.	23
Sodding, Salt Tolerant	Sq. Yd.	336
Supplemental Watering	Unit	10
Temporary Erosion Control Seeding	Pound	7
Perimeter Erosion Barrier	Foot	167
Seeding (Special)	Acre	0.01



DESIGNED - M.A.C.	REVISED -
CHECKED - M.C.W.	REVISED -
DRAWN - M.A.C.	REVISED -
CHECKED - M.C.W.	REVISED -

**CITY OF JOLIET**  
**WASHINGTON STREET OVER SPRING CREEK**  
**STATION 46 + 32**

**SOIL EROSION AND SEDIMENT CONTROL PLAN**  
**STRUCTURE NO. 099-6462**

SHEET NO. 1 OF 2 SHEETS

F.A.J. RTE. 307	SECTION 09-00426-00-BR	COUNTY WILL	TOTAL SHEETS 35	SHEET NO. 11
WHA* 1143D13		CONTRACT NO. 61A48		
[ILLINOIS] FED. AID PROJECT BRM-9003(531)				

**SOIL EROSION AND SEDIMENT CONTROL NOTES**

THE FOLLOWING PLAN IS ESTABLISHED AND INCORPATED IN THE PROJECT TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES.

THE PURPOSE OF THIS PLAN IS TO MINIMIZE EROSION WITHIN THE CONSTRUCTION SITE AND TO LIMIT SEDIMENTS FROM LEAVING THE CONSTRUCTION SITE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME.

CERTAIN EROSION CONTROL FACILITIES SHALL BE INSTALLED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE INSTALLED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE SITUATION DEPENDING ON THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.

THE CONTRACTOR SHALL INSTALL PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A TIME FRAME SPECIFIED HEREIN AND AS DIRECTED BY THE ENGINEER. THEREFORE, MINIMIZING THE AMOUNT OF AREA SUSCEPTIBLE TO EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING. THE ENGINEER WILL DETERMINE IF ANY TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS, WHICH ARE NOT INCLUDED IN THIS PLAN, SHALL BE ADDED. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN STANDARD 280001 OF THE PLANS.

SECTION 280, TEMPORARY EROSION CONTROL, OF THE STANDARD SPECIFICATIONS ADDITIONALLY SUPPLEMENTS THIS PLAN.

SITE DESCRIPTION:

DESCRIPTION OF CONSTRUCTION ACTIVITY:

1. THIS PROJECT CONSISTS OF REMOVING AND REPLACING THE STRUCTURE CARRYING WASHINGTON STREET OVER SPRING CREEK IN THE CITY OF JOLIET, WITH APPROACH ROADWAY WORK THERETO.
2. CONSTRUCTION INCLUDES EARTH EXCAVATION, STRUCTURE EXCAVATION, CONCRETE STRUCTURES CURB AND GUTTER, NEW STORM SEWER AND INLETS, PAVEMENT ITEMS, AND OTHER MISCELLANEOUS ITEMS OF CONSTRUCTION.

DESCRIPTION OF INTENDED SEQUENCE FOR MAJOR CONSTRUCTION ACTIVITIES WHICH WILL DISTURB SOIL FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE:

1. REMOVAL OF EXISTING STRUCTURE
2. ROCK EXCAVATION OF STREAMBED
3. UTILITY REPLACEMENT
4. CONSTRUCTION OF PROPOSED STRUCTURE
5. RECONSTRUCTION OF ROADWAY

AREA OF CONSTRUCTION SITE:

THE TOTAL AREA OF THE CONSTRUCTION SITE IS ESTIMATED TO BE 0.42 ACRES OF WHICH 0.42 ACRES WILL BE DISTURBED BY EXCAVATION, GRADING AND OTHER ACTIVITIES.

OTHER REPORTS, STUDIES AND PLANS WHICH AID IN THE DEVELOPMENT OF THE STORM WATER POLLUTION PREVENTION PLAN AS REFERENCED DOCUMENTS:

1. TOPOGRAPHIC SURVEY
2. PROJECT PLAN DOCUMENTS
3. ILLINOIS URBAN MANUAL

DRAINAGE TRIBUTARIES AND SENSITIVE AREAS RECEIVING RUNOFF FROM THIS CONSTRUCTION SITE:

SPRING CREEK

CONTROLS - EROSION CONTROLS AND SEDIMENT CONTROL

DESCRIPTION OF STABILIZATION PRACTICES AT THE BEGINNING OF CONSTRUCTION:

1. THE DRAWINGS, SPECIFICATIONS AND SPECIAL PROVISIONS WILL ENSURE THAT EXISTING VEGETATION IS PRESERVED WHERE ATTAINABLE, AND DISTURBED PORTIONS OF THE SITE WILL BE STABILIZED. STABILIZATION PRACTICES INCLUDE: TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, PROTECTION OF TREES, PRESERVATION OF MATURE VEGETATION, AND OTHER APPROPRIATE MEASURES AS DIRECTED BY THE ENGINEER. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN 7 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.

- (A) AREAS OF EXISTING VEGETATION (WOOD AND GRASSLANDS) OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE IDENTIFIED BY THE ENGINEER FOR PRESERVING AND SHALL BE PROTECTED FROM CONSTRUCTION ACTIVITIES.
- (B) DEAD, DISEASED OR UNSUITABLE VEGETATION WITHIN THE SITE SHALL BE REMOVED AS DIRECTED BY THE ENGINEER, ALONG WITH REQUIRED TREE REMOVAL.
- (C) AS SOON AS REASONABLE ACCESS IS AVAILABLE TO ALL LOCATIONS WHERE WATER DRAINS AWAY FROM THE PROJECT, TEMPORARY DITCH CHECKS, INLET AND PIPE PROTECTION AND PERIMETER EROSION BARRIER SHALL BE INSTALLED AS CALLED OUT IN THE PLAN AND DIRECTED BY THE ENGINEER.
- (D) BARE AND SPARSELY VEGETATED GROUND IN HIGH ERODIBLE AREAS AS DETERMINED BY THE ENGINEER SHALL BE TEMPORARILY SEEDED AT THE BEGINNING OF CONSTRUCTION WHERE NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN 7 DAYS.
- (E) IMMEDIATELY AFTER TREE REMOVAL IS COMPLETED, AREAS WHICH ARE HIGHLY ERODABLE AS DETERMINED BY THE ENGINEER, SHALL BE TEMPORARILY SEEDED WHEN NO CONSTRUCTION ACTIVITIES ARE EXPECTED WITHIN 7 DAYS.
- (F) AT LOCATIONS WHERE A SIGNIFICANT AMOUNT OF WATER DRAINS INTO THE CONSTRUCTION ZONE FROM OUTSIDE AREAS (ADJACENT LANDOWNERS), TEMPORARY DITCH CHECKS WILL BE UTILIZED TO LOCALLY DIVERT WATER, REDUCE FLOW RATES AND COLLECT OUTSIDE SILTATION INSIDE THE RIGHT-OF-WAY LINE.

2. ESTABLISHMENT OF THESE TEMPORARY EROSION CONTROL MEASURES WILL HAVE ADDITIONAL BENEFITS TO THE PROJECT. DESIRABLE GRASS SEED WILL BECOME ESTABLISHED IN THESE AREAS AND WILL SPREAD SEEDS ONTO THE CONSTRUCTION SITE UNTIL PERMANENT SEEDING/MOWING AND OVERSEEDING CAN BE COMPLETED.

DESCRIPTION OF STABILIZATION PRACTICES DURING CONSTRUCTION:

1. DURING CONSTRUCTION, AREAS OUTSIDE THE CONSTRUCTION LIMITS AS OUTLINED PREVIOUSLY HEREIN SHALL BE PROTECTED. THE CONTRACTOR SHALL NOT USE THIS AREA FOR STAGING (EXCEPT AS DESCRIBED ON THE PLANS AND DIRECTED BY THE ENGINEER), PARKING OF VEHICLES OR CONSTRUCTION EQUIPMENT, STORAGE OF MATERIALS, OR OTHER CONSTRUCTION RELATED ACTIVITIES.
  - (A) WITHIN THE CONSTRUCTION LIMITS, AREAS WHICH MAY BE SUSCEPTIBLE TO EROSION AS DETERMINED BY THE ENGINEER SHALL REMAIN UNDISTURBED UNTIL FULL SCALE CONSTRUCTION IS UNDERWAY TO PREVENT UNNECESSARY SOIL EROSION.
  - (B) EARTH STOCKPILES SHALL BE TEMPORARILY SEEDED IF THEY ARE TO REMAIN UNUSED FOR MORE THAN 14 DAYS.
  - (C) AS CONSTRUCTION PROCEEDS, THE CONTRACTOR SHALL INSTITUTE THE FOLLOWING AS DIRECTED BY THE ENGINEER:
    - (I) PLACE TEMPORARY EROSION CONTROL FACILITIES AT LOCATIONS SHOWN ON THE PLANS.
    - (II) TEMPORARILY SEED ERODABLE BARE EARTH ON A WEEKLY BASIS TO MINIMIZE THE AMOUNT OF ERODABLE SURFACE AREA WITHIN THE CONTRACT LIMITS.
    - (III) BUILD COFFERDAM FOR STREAMBED EXCAVATION, UTILITY REPLACEMENT AND THE PROPOSED BRIDGE CONSTRUCTION.
    - (IV) RECONSTRUCT ROADWAY, CURB AND GUTTER AND SIDEWALKS.
    - (V) PLACE PERMANENT EROSION CONTROL ITEMS

(D) EXCAVATED AREAS AND EMBANKMENT SHALL BE PERMANENTLY SEEDED IMMEDIATELY AFTER FINAL GRADING. IF NOT, THEY SHALL BE TEMPORARILY SEEDED IF NO CONSTRUCTION ACTIVITY IN THE AREA IS PLANNED FOR 7 DAYS.

(E) CONSTRUCTION EQUIPMENT SHALL BE STORED AND FUELED ONLY AT DESIGNATED LOCATIONS. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OF OTHER POLLUTANT IN ACCORDANCE WITH EPA WATER QUALITY REGULATIONS. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.

(F) THE RESIDENT ENGINEER SHALL INSPECT THE PROJECT DAILY DURING CONSTRUCTION ACTIVITIES. INSPECTION SHALL ALSO BE DONE WEEKLY AND AFTER RAINS OF 1/2 INCH OR GREATER OR EQUIVALENT SNOWFALL AND DURING THE WINTER SHUTDOWN PERIOD. THE PROJECT SHALL ADDITIONALLY BE INSPECTED BY THE CONSTRUCTION FIELD ENGINEER ON A BI-WEEKLY BASIS TO DETERMINE THAT EROSION CONTROL EFFORTS ARE IN PLACE AND EFFECTIVE AND IF OTHER EROSION CONTROL WORK IS NECESSARY.

(G) SEDIMENT COLLECTED DURING CONSTRUCTION OF THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS AS DIRECTED BY THE ENGINEER. THE COST OF THIS MAINTENANCE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR EARTH EXCAVATION.

(H) THE TEMPORARY EROSION CONTROL SYSTEMS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER AFTER USE IS NO LONGER NEEDED OR NO LONGER FUNCTIONING. THE COST OF THIS REMOVAL SHALL BE INCLUDED IN THE UNIT BID PRICE FOR VARIOUS TEMPORARY EROSION CONTROL PAY ITEMS.

DESCRIPTION OF STRUCTURAL PRACTICES AFTER FINAL GRADING:

1. TEMPORARY EROSION CONTROL SYSTEMS SHALL BE LEFT IN PLACE WITH PROPER MAINTENANCE UNTIL PERMANENT EROSION CONTROL IS IN PLACE AND WORKING PROPERLY AND ALL PROPOSED TURF AREAS SEEDED AND ESTABLISHED.
2. ONCE PERMANENT EROSION CONTROL SYSTEMS AS PROPOSED IN THE PLANS ARE FUNCTIONAL AND ESTABLISHED, TEMPORARY ITEMS SHALL BE REMOVED, CLEANED UP AND DISTURBED TURF RESEDED.

MAINTENANCE AFTER CONSTRUCTION:

1. CONSTRUCTION IS COMPLETE AFTER ACCEPTANCE BY I.D.O.T. FINAL INSPECTION. MAINTENANCE UP TO THIS DATE WILL BE BY THE CONTRACTOR.

MISCELLANEOUS:

1. ALL ADJACENT STREETS MUST BE KEPT CLEAR OF DEBRIS, INSPECTED DAILY AND CLEANED WHEN NECESSARY.
2. TEMPORARY EROSION CONTROL SEEDING SHALL BE APPLIED AT A RATE OF 100 LBS./ACRE.
3. SEEDING (SPECIAL) IS A WETLAND SEED CONTAINING ONLY AGROSTIS ALBA.
4. SEE SPECIAL PROVISIONS FOR SEEDING (SPECIAL) AND SODDING, SALT TOLERANT.
5. ALL EROSION CONTROL PRODUCTS FURNISHED SHALL BE SPECIFICALLY RECOMMENDED BY THE MANUFACTURER FOR THE USE SPECIFIED IN THE EROSION CONTROL PLAN. PRIOR TO APPROVAL AND USE OF THE PRODUCT, THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER A NOTARIZED CERTIFICATION BY THE PRODUCER STATING THE INTENDED USE OF THE PRODUCT THAT THE PHYSICAL PROPERTIES REQUIRED FOR THIS APPLICATION ARE MET OR EXCEEDED. THE CONTRACTOR SHALL PROVIDE MANUFACTURER INSTALLATION PROCEDURES TO FACILITATE THE ENGINEER IN CONSTRUCTION INSPECTION.
6. THE WILL/SOUTH COOK SOIL AND WATER CONSERVATION DISTRICT (SWCD) IS RESPONSIBLE FOR CONDUCTING SITE VISITS AND VERIFYING THAT THE PRACTICES ARE WORKING PROPERLY AND DETERMINE IF ADDITIONAL PRACTICES ARE NEEDED FOR BETTER SOIL EROSION AND SEDIMENT CONTROL. IF ADDITIONAL PRACTICES ARE DEEMED NECESSARY BY THE SWCD, THE CONTRACTOR WILL IMPLEMENT THE PRACTICES IN A TIMELY MANNER.
7. THE SWCD MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION MEETING, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES AND ONE WEEK PRIOR TO FINAL INSPECTION.



DESIGNED - M.A.C.	REVISED -
CHECKED - M.C.W.	REVISED -
DRAWN - M.A.C.	REVISED -
CHECKED - M.C.W.	REVISED -

**CITY OF JOLIET  
WASHINGTON STREET OVER SPRING CREEK  
STATION 46 + 32**

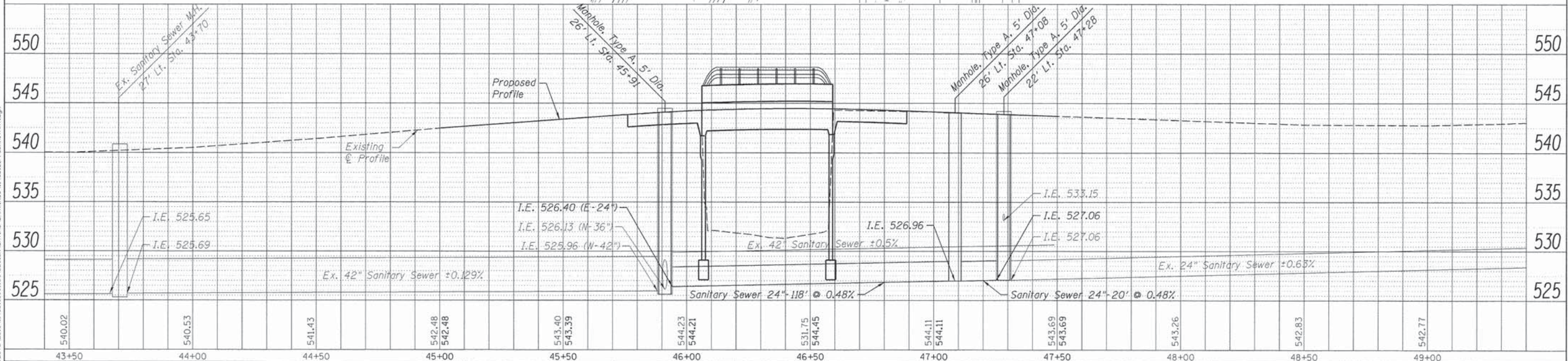
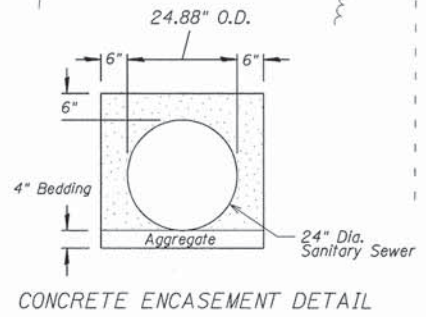
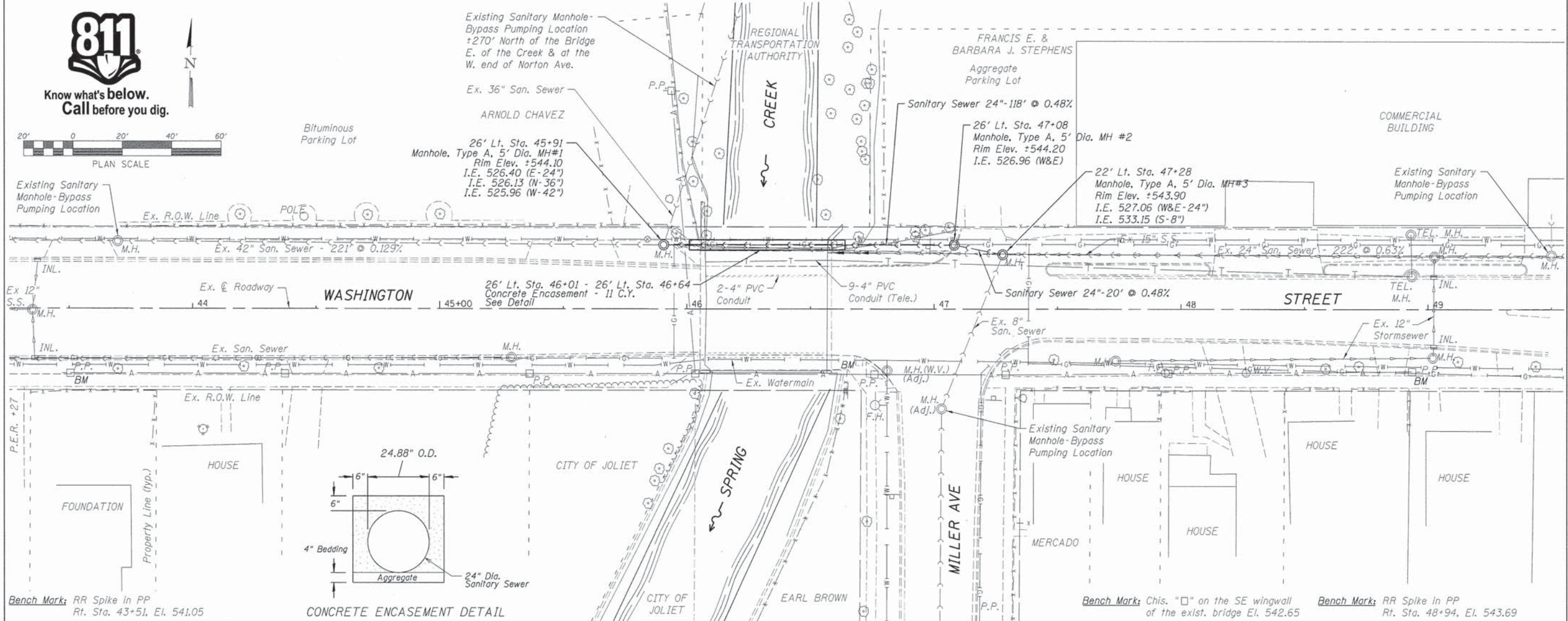
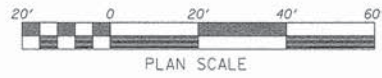
**SOIL EROSION AND SEDIMENT CONTROL PLAN  
STRUCTURE NO. 099-6462**

SHEET NO. 2 OF 2 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	09-00426-00-BR	WILL	35	12
WHA* 1143D13			CONTRACT NO. 61A48	
ILLINOIS FED. AID PROJECT BRM-9003153U				



Know what's below.  
Call before you dig.



DESIGNED - DAN LOOS	REVISED -
CHECKED - MATT HANSEN	REVISED -
DRAWN - RAY JASPER	REVISED -
CHECKED - DAN LOOS	REVISED -

**CITY OF JOLIET, ILLINOIS  
BRIDGE REPLACEMENT  
WASHINGTON STREET OVER SPRING CREEK**

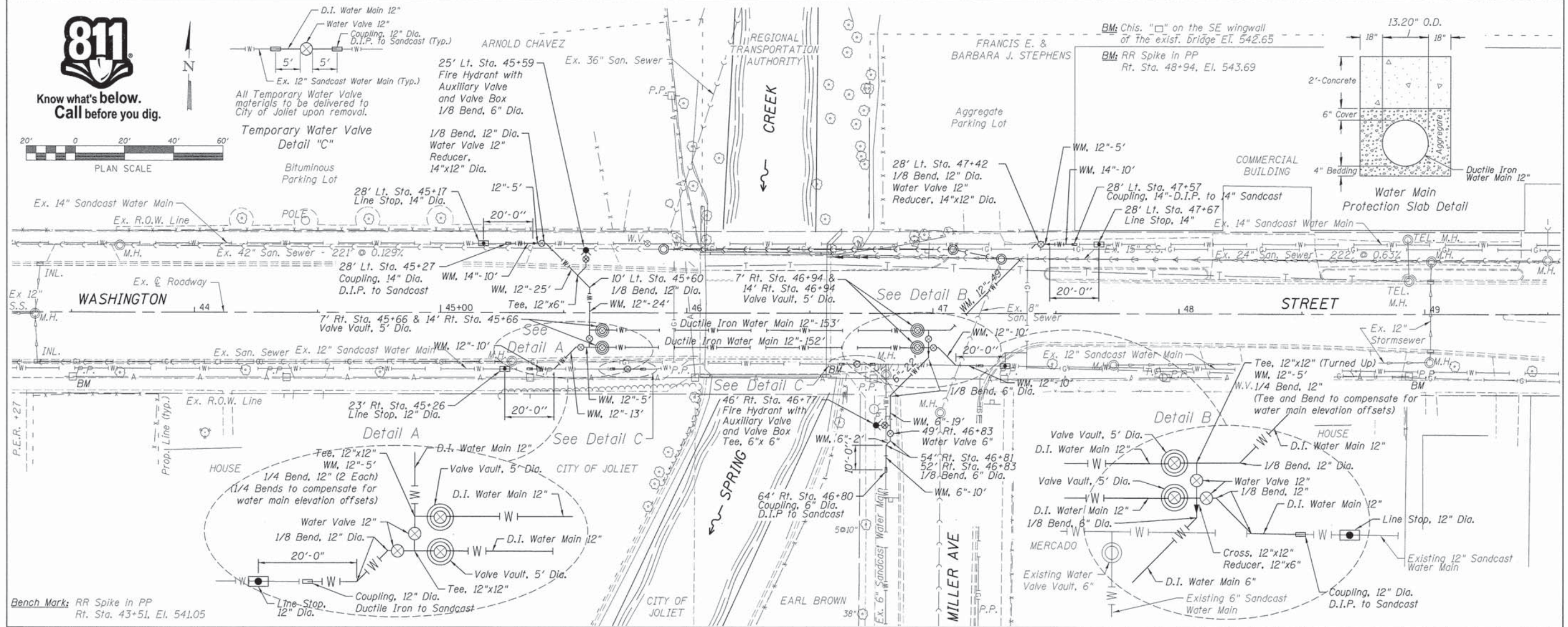
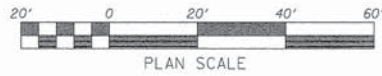
**SANITARY SEWER - PLAN AND PROFILE**  
SCALE: 1" = 40'  
SHEET NO. 1 OF 1 SHEETS  
STA. 43+50 TO STA. 49+00

F.A.U. RTE. 307	SECTION 09-00426-00-BR	COUNTY WILL	TOTAL SHEETS 35	SHEET NO. 13
WHA#1143013		CONTRACT NO. 61A48		
ILLINOIS FED. AID PROJECT BRM-90031531				

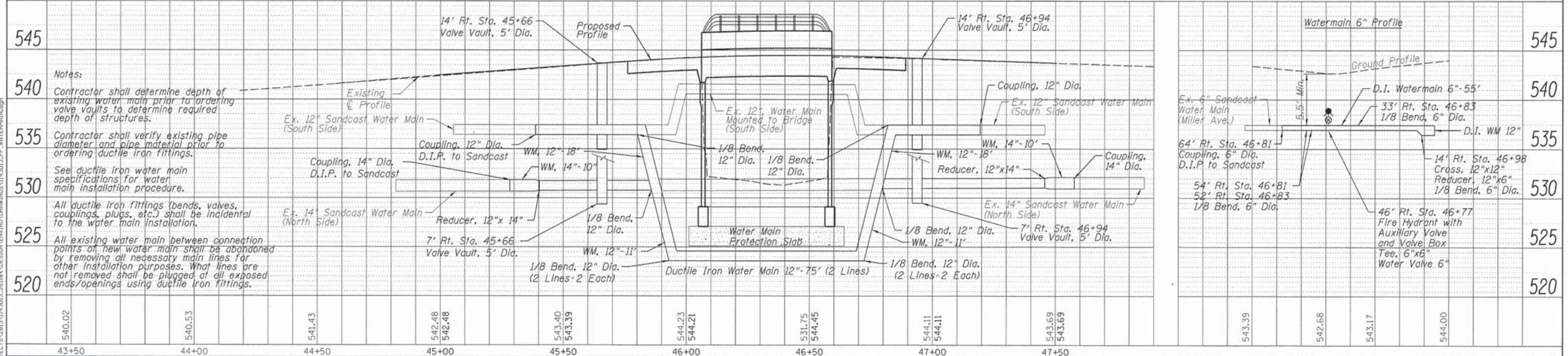
FILE: S:\PROJECTS\2013\1143013\JOLIET\DESIGN\DWG\DRAWINGS\1143013\_PP\_SANITARY.dwg



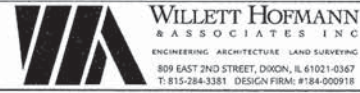
Know what's below. Call before you dig.



Bench Marks: RR Spike in PP Rt. Sta. 43+51, El. 541.05



Notes: 545 Contractor shall determine depth of existing water main prior to ordering valve vaults to determine required depth of structures. 540 Contractor shall verify existing pipe diameter and pipe material prior to ordering ductile iron fittings. 535 See ductile iron water main specifications for water main installation procedure. 530 All ductile iron fittings (bends, valves, couplings, plugs, etc.) shall be incidental to the water main installation. 525 All existing water main between connection points of new water main shall be abandoned by removing all necessary main lines for other installation purposes. What lines are not removed shall be plugged at all exposed ends/openings using ductile iron fittings. 520



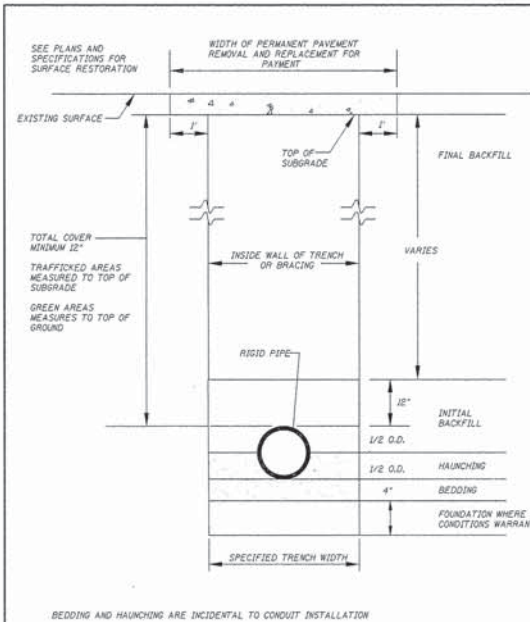
DESIGNED - DAN LOOS	REVISED -
CHECKED - MATT HANSEN	REVISED -
DRAWN - LUKE DIXON	REVISED -
CHECKED - DAN LOOS	REVISED -

CITY OF JOLIET, ILLINOIS  
BRIDGE REPLACEMENT  
WASHINGTON STREET OVER SPRING CREEK

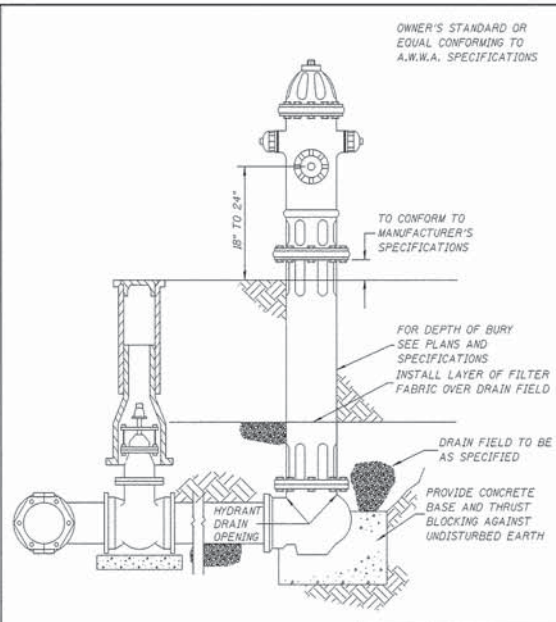
WATERMAIN - PLAN AND PROFILE  
SCALE: 1" = 40' SHEET NO. 1 OF 1 SHEETS STA. 43+50 TO STA. 49+00

F.A.U. R.T.E. 307	SECTION 09-00426-00-BR	COUNTY WILL	TOTAL SHEETS 35	SHEET NO. 14
WHA#1143013		CONTRACT NO. 61A48		
[ILLINOIS] FED. AID PROJECT BRM-9003531				

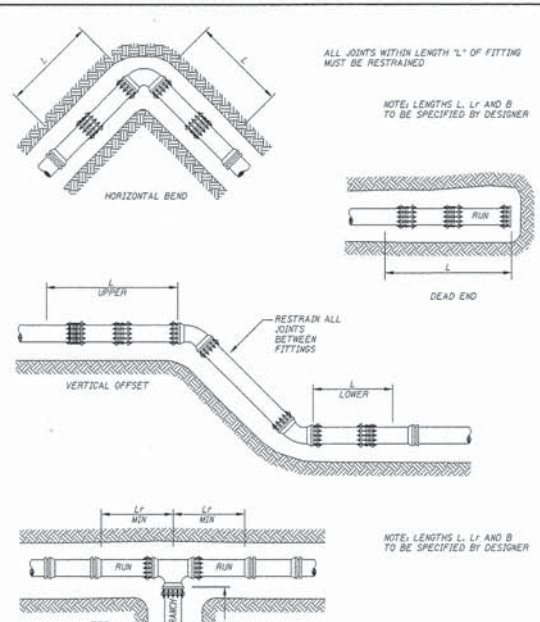
FILE: S:\PROJECTS\2013\1143013\Joliet\DESIGN\DW\DRAWINGS\1143013\_PP\_WATERMAIN.dgn



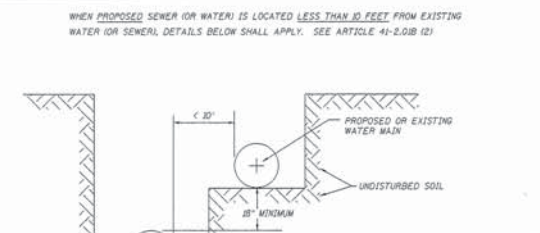
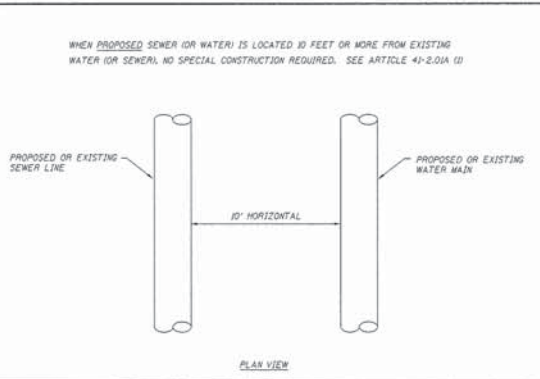
RIGID PIPE INSTALLATION DETAIL  
STANDARD DRAWING NO.1



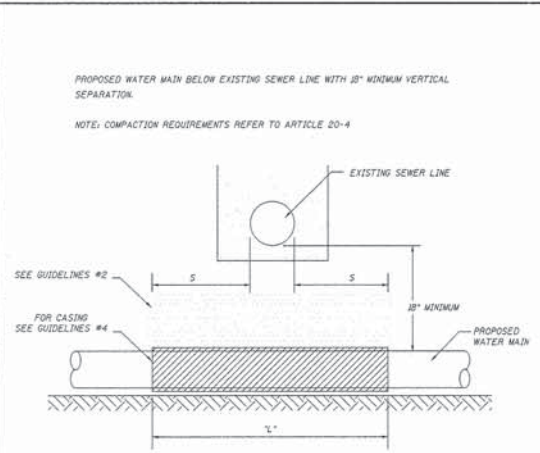
TYPICAL HYDRANT INSTALLATION  
DIV. V/STANDARD DRAWING NO. 11



RETAINING GLAND RESTRAINT  
STANDARD DRAWING NO.10

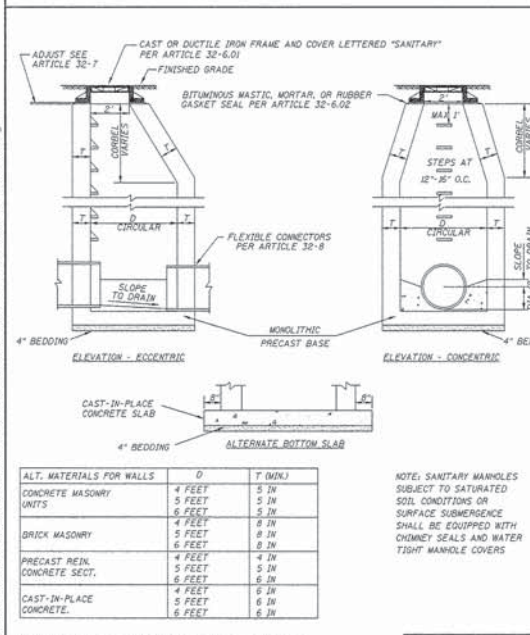


WATER AND SEWER SEPARATION REQUIREMENTS  
HORIZONTAL SEPARATION  
STANDARD DRAWING NO.18

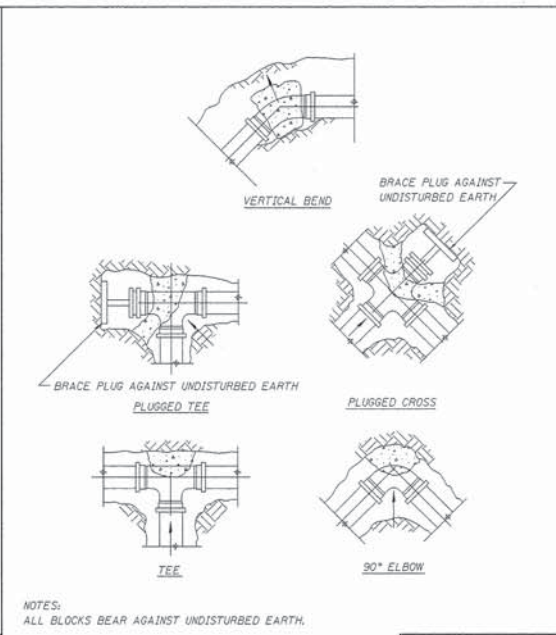


- GUIDELINES
1. OMIT SELECT GRANULAR EMBEDMENT AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF WATER MAIN AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT THE LENGTH OF "L".
  2. IF SELECT GRANULAR BACKFILL EXISTS, REMOVE WITHIN WIDTH OF EXISTING SEWER LINE TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT.
  3. PROVIDE ADEQUATE SUPPORT FOR EXISTING SEWER LINE TO PREVENT DAMAGE DUE TO SETTLEMENT.
  4. USE "L" FEET OF WATER MAIN MATERIAL FOR CASING OF PROPOSED WATER MAIN AND SEAL ENDS OF CASING.

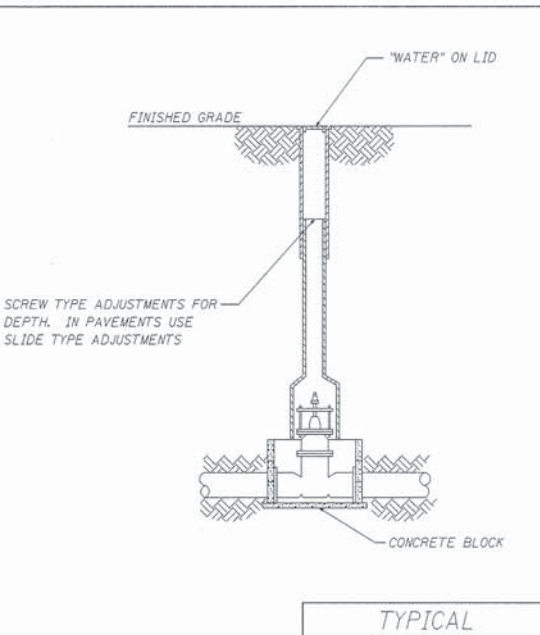
WATER AND SEWER SEPARATION REQUIREMENTS  
VERTICAL SEPARATION  
STANDARD DRAWING NO.23



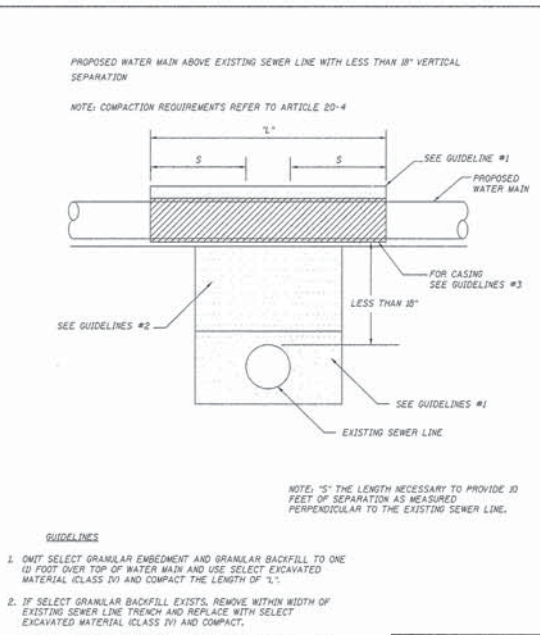
TYPICAL SANITARY MANHOLE "A"  
STANDARD DRAWING NO.20a



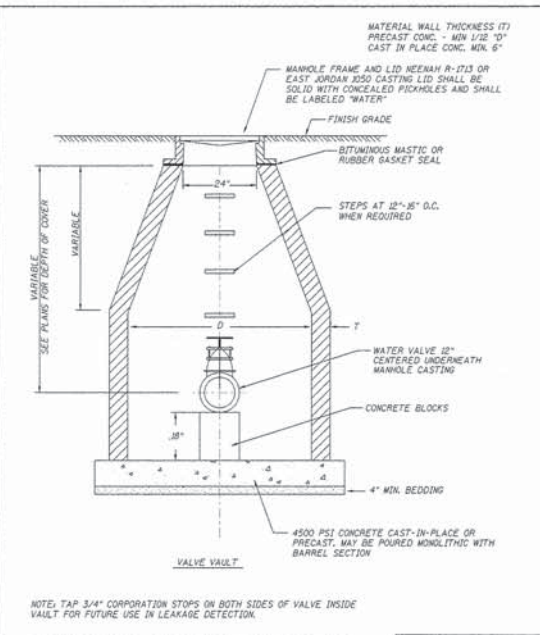
TYPICAL THRUST BLOCK INSTALLATIONS  
STANDARD DRAWING NO. 12



TYPICAL VALVE BOX INSTALLATION  
DIV. V/STANDARD DRAWING NO. 14



WATER AND SEWER SEPARATION REQUIREMENTS  
VERTICAL SEPARATION  
STANDARD DRAWING NO.22



TYPICAL VALVE VAULT DETAIL  
STANDARD DRAWING NO.13

WILLETT HOFMANN & ASSOCIATES INC  
ENGINEERING ARCHITECTURE LAND SURVEYING  
809 EAST 2ND STREET, DODD, IL 61021-0367  
T: 815-284-3381 DESIGN FIRM: #184-000918

DESIGNED - DAN LOOS	REVISED -
CHECKED - MATT HANSEN	REVISED -
DRAWN - DAN LOOS	REVISED -
CHECKED - DAN LOOS	REVISED -

CITY OF JOLIET, ILLINOIS  
BRIDGE REPLACEMENT  
WASHINGTON STREET OVER SPRING CREEK

WATER AND SEWER - STANDARD CONSTRUCTION DRAWINGS  
SCALE: 1" = 20'  
SHEET NO. 1 OF 1 SHEETS  
STA. 43+50 TO STA. 49+00

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	09-00426-00-BR	WILL	35	15
WHA#1143013			CONTRACT NO. 61A48	
ILLINOIS FED. AID PROJECT BRM-9003/531				

FILE # S:\PROJECTS\2013\1143013\_01\1143013\DESIGN\ENR\DRAWINGS\1143013\_WATER AND SEWER STANDARD DRAWINGS.dwg

**EXISTING STRUCTURE:** S.N. 099-6450  
Originally constructed in 1931 under Sec. 65B-S.H.A. at Sta. 46+32 as a single span (1 @ 51'-2") reinforced concrete tee beam bridge. The structure is supported on footings sitting in rock, 53'-0" back to back of abutments and 50'-4" out to out of deck. The existing structure is to be removed and replaced.

**BENCH MARK:** Chis. "□" on the SE wingwall of the exist. bridge, El. 542.65

**BILL OF MATERIAL - BRIDGE**

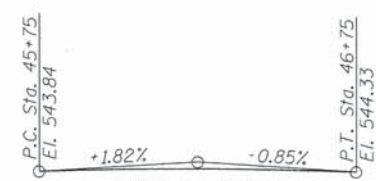
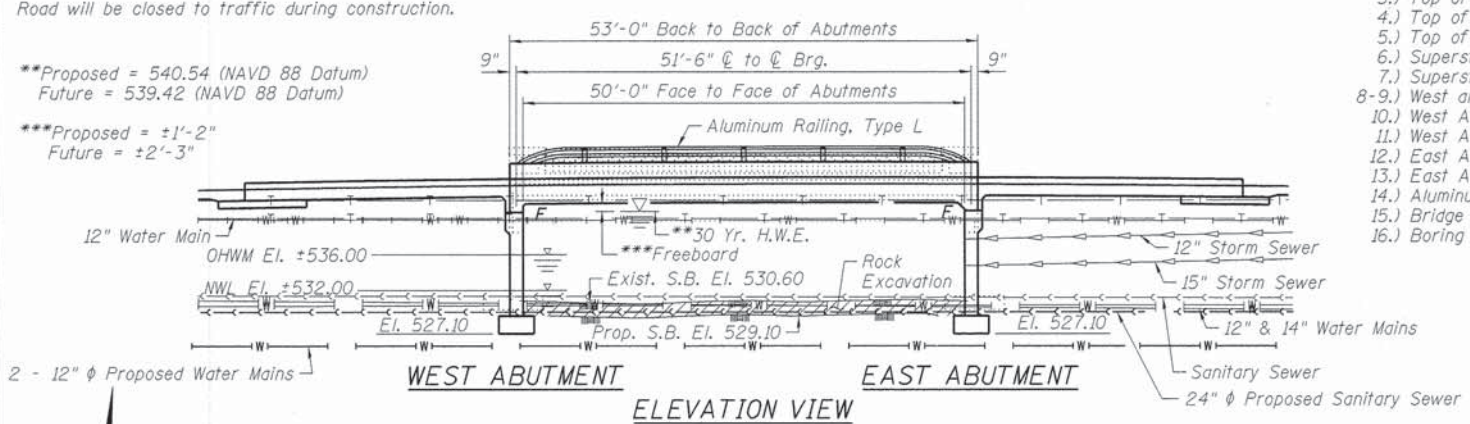
ITEM	UNIT	SUB.	SUPER.	TOTAL
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.	323		323
Rock Excavation for Structures	Cu. Yd.	287		287
Concrete Structures	Cu. Yd.	197.5		197.5
Concrete Superstructure	Cu. Yd.		416.2	416.2
Bridge Deck Grooving	Sq. Yd.		478	478
Protective Coat	Sq. Yd.		677	677
Reinforcement Bars, Epoxy Coated	Pound	20,410	91,020	111,430
Aluminum Railing, Type L	Foot		102	102
Bridge Fence Railing	Foot		36	36
Name Plates	Each		1	1
Geocomposite Wall Drain	Sq. Yd.	116		116
Granular Backfill for Structures	Cu. Yd.	813		813
Temporary Soil Retention System	Sq. Ft.	1,633		1,633

No Salvage.  
Road will be closed to traffic during construction.

\*\*Proposed = 540.54 (NAVD 88 Datum)  
Future = 539.42 (NAVD 88 Datum)  
\*\*\*Proposed = ±1'-2"  
Future = ±2'-3"

**INDEX OF STRUCTURAL SHEETS**

- 1.) General Plan and Elevation
- 2.) Temporary Soil Retention System Layout
- 3.) Top of Slab Elevations
- 4.) Top of West Approach Slab Elevations
- 5.) Top of East Approach Slab Elevations
- 6.) Superstructure
- 7.) Superstructure Details
- 8-9.) West and East Bridge Approach Slab Details
- 10.) West Abutment Sheet
- 11.) West Abutment Details
- 12.) East Abutment Sheet
- 13.) East Abutment Details
- 14.) Aluminum Railing, Type L Details
- 15.) Bridge Fence Railing
- 16.) Boring Logs



**PROFILE GRADE**  
(Along Center Roadway)

**DESIGN SCOUR ELEVATION TABLE**

Design Scour Elevation - ft.	West Abut.	East Abut.
	529.60	529.60

**WATERWAY INFORMATION - PROPOSED**

Drain. Area = 19.5 sq. mi. Low Grade El. 540.02 @ Sta. 43+50 Datum NGVD 29

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	1,576	283	424	537.98	0.14	0.00	538.12	537.51
Design	30	2,800	379	567	540.84	0.46	0.00	541.30	540.71
Design	50	3,164	379	610	542.20	0.83	0.00	543.03	542.20
Base	100	4,038	379	610	543.02	1.73	0.31	544.75	543.33

**WATERWAY INFORMATION - \*\*\*\*FUTURE**

Drain. Area = 19.5 sq. mi. Low Grade El. 540.02 @ Sta. 43+50 Datum DGVD 29

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	1,576	-	337	536.24	-	0.09	-	536.33
Design	30	2,800	-	511	539.72	-	0.14	-	539.86
Design	50	3,164	-	601	541.52	-	0.06	-	541.49
Base	100	4,038	-	610	542.70	-	0.05	-	542.76

\*\*\*\*Future conditions refer to after the IDNR Office of Water Resources' Spring Creek Streambed Lowering (±2') Project is completed. The existing structure will not be affected by the Streambed Lowering Project and therefore has not been referred to in this table.

**LOADING HL-93**

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

**DESIGN SPECIFICATIONS**

2012 AASHTO LRFD Bridge Design Specifications & 2013 Interims

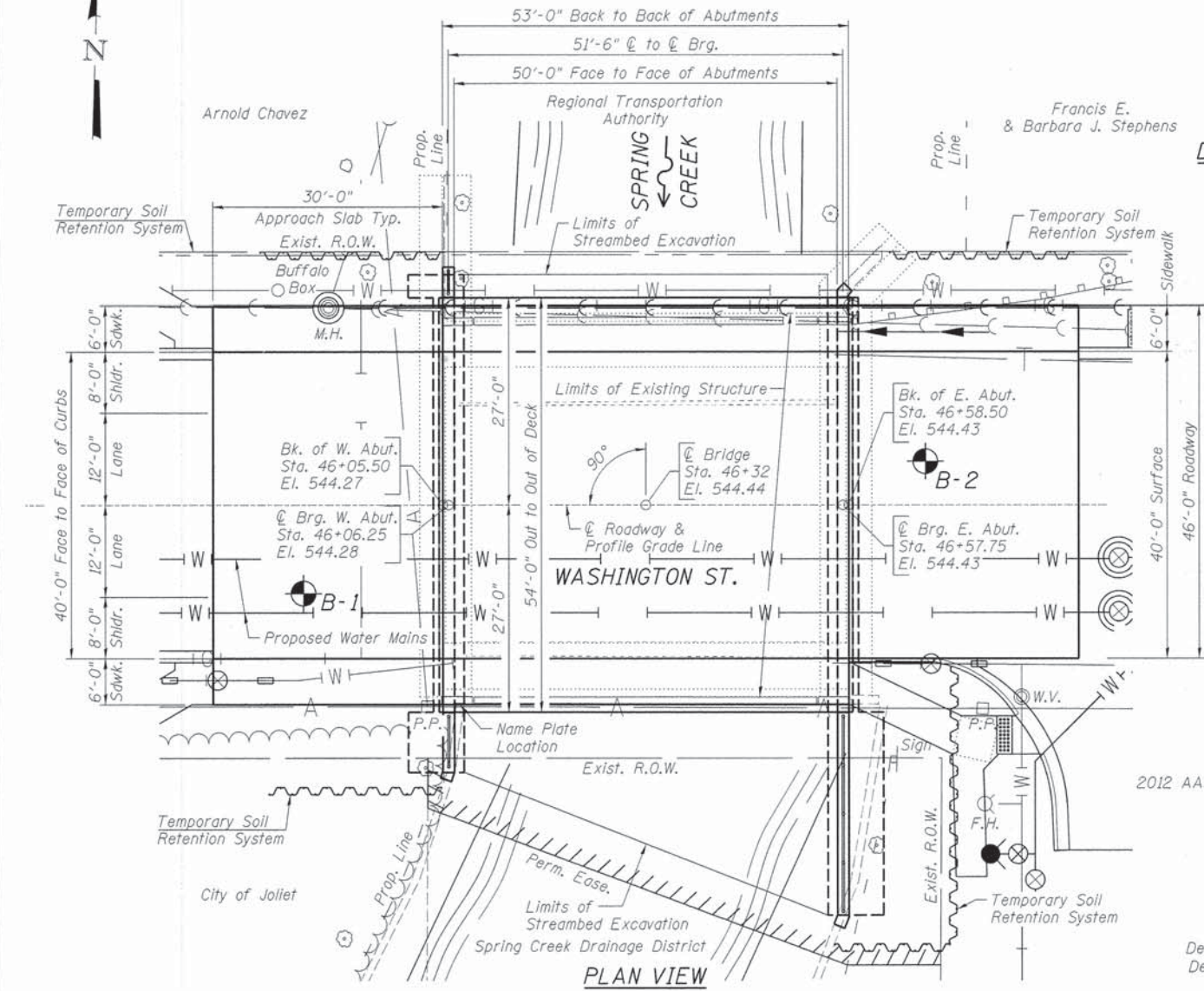
**DESIGN STRESSES**

**FIELD UNITS**

f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)

**SEISMIC DATA**

Seismic Performance Zone (SPZ) = 1  
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.035  
Design Spectral Acceleration at 0.2 sec. (SDs) = 0.09  
Soil Site Class = B



**WATERWAY INFORMATION - \*\*\*\*FUTURE**

Drain. Area = 19.5 sq. mi. Low Grade El. 540.02 @ Sta. 43+50 Datum DGVD 29

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	1,576	-	337	536.24	-	0.09	-	536.33
Design	30	2,800	-	511	539.72	-	0.14	-	539.86
Design	50	3,164	-	601	541.52	-	0.06	-	541.49
Base	100	4,038	-	610	542.70	-	0.05	-	542.76

\*\*\*\*Future conditions refer to after the IDNR Office of Water Resources' Spring Creek Streambed Lowering (±2') Project is completed. The existing structure will not be affected by the Streambed Lowering Project and therefore has not been referred to in this table.

**LOADING HL-93**

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

**DESIGN SPECIFICATIONS**

2012 AASHTO LRFD Bridge Design Specifications & 2013 Interims

**DESIGN STRESSES**

**FIELD UNITS**

f'c = 3,500 psi  
fy = 60,000 psi (Reinforcement)

**SEISMIC DATA**

Seismic Performance Zone (SPZ) = 1  
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.035  
Design Spectral Acceleration at 0.2 sec. (SDs) = 0.09  
Soil Site Class = B

SPRING CREEK  
BUILT 2014 BY  
CITY OF JOLIET  
SECTION 09-00426-00-BR  
F.A.U. RTE 307 STA. 46+32  
STR. NO. 099-6462 LOADING HL-93

**NAME PLATE LETTERING**

Refer to Std. 515001  
Range 10 E. of 3rd P.M.



**LOCATION SKETCH**

**WILLET HOFMANN & ASSOCIATES INC.**  
ENGINEERING ARCHITECTURE LAND SURVEYING  
809 EAST 2ND STREET, DIXON, IL 61021-0367  
T: 815-284-3381 DESIGN FIRM: #184-000918

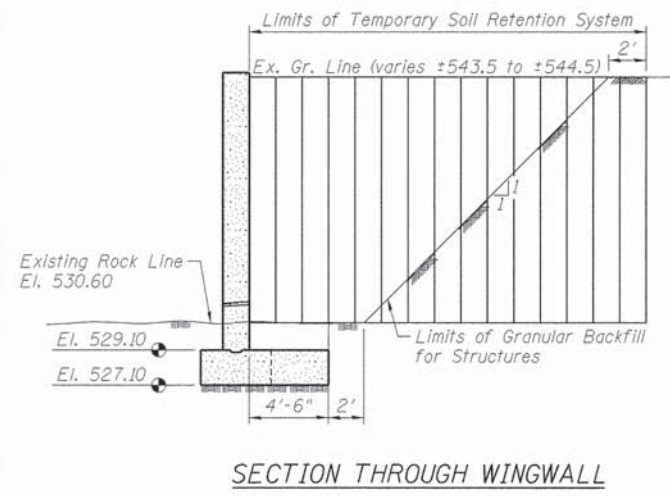
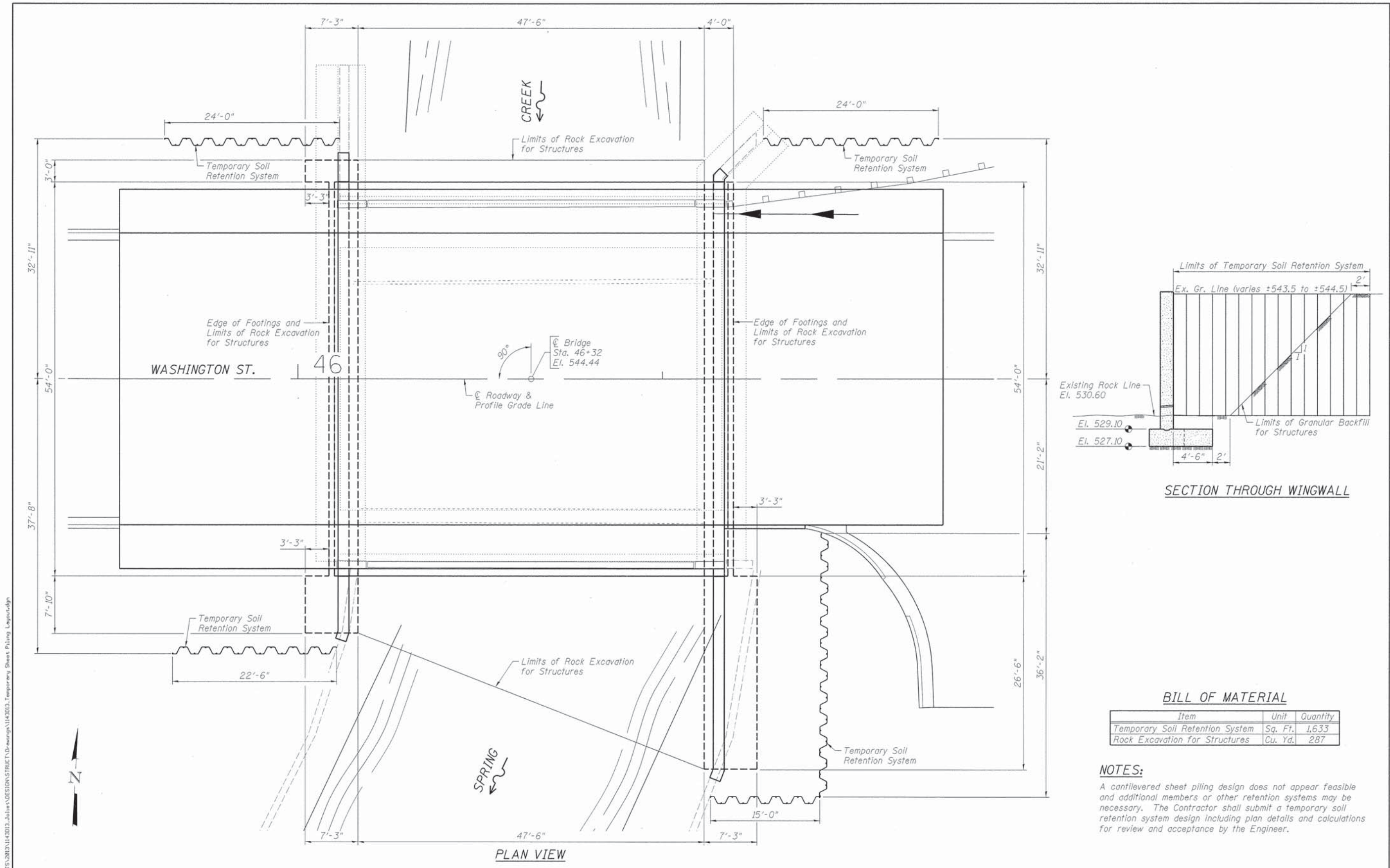
DESIGNED - BRIAN CONVERSE	REVISED -
CHECKED - MEGAN CACKLEY	REVISED -
DRAWN - FRANK LACHAT	REVISED -
CHECKED - BRIAN CONVERSE	REVISED -

**CITY OF JOLIET**  
**WASHINGTON STREET OVER SPRING CREEK**  
**STATION 46 + 32**

**GENERAL PLAN AND ELEVATION**  
**STRUCTURE NO. 099-6462**  
STRUCTURAL SHEET NO. 1 OF 16 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	09-00426-00-BR	WILL	35	16
WHA*1143D13		CONTRACT NO. 61A48		
ILLINOIS FED. AID PROJECT BRM-90034531				





**BILL OF MATERIAL**

Item	Unit	Quantity
Temporary Soil Retention System	Sq. Ft.	1,633
Rock Excavation for Structures	Cu. Yd.	287

**NOTES:**  
 A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

FILE: S:\PROJECTS\2815\143013\Joliet\DESIGN\STRUCT\Drawings\143013\_Temporary Sheet Piling Layout.dgn

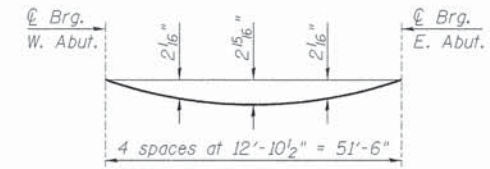
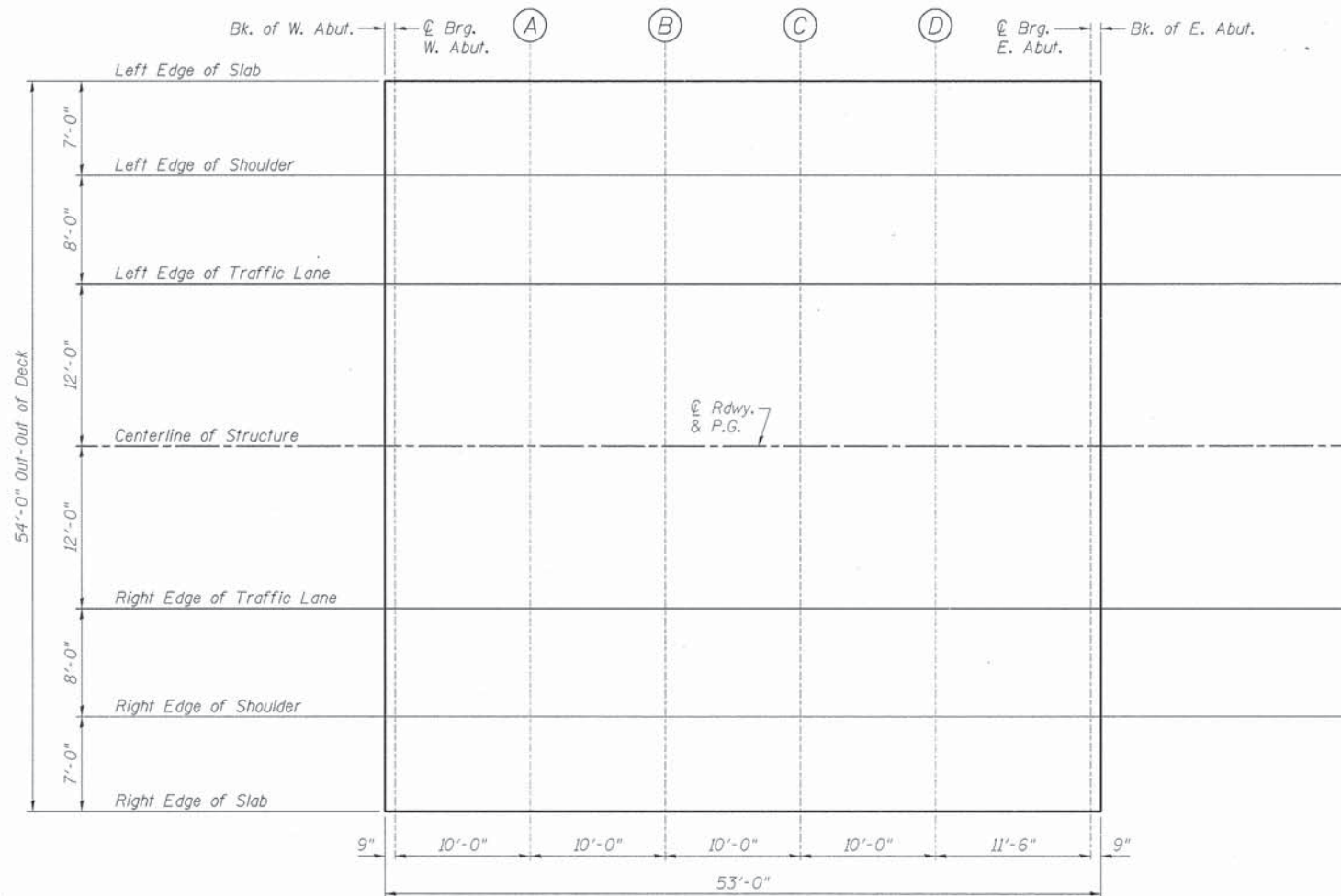
**WILLET HOFMANN & ASSOCIATES INC.**  
 ENGINEERING ARCHITECTURE LAND SURVEYING  
 809 EAST 2ND STREET, DIXON, IL 61021-0367  
 T: 815-284-3381 DESIGN FIRM: #184-009918

DESIGNED - BRIAN CONVERSE	REVISED -
CHECKED - MEGAN CACKLEY	REVISED -
DRAWN - FRANK LCHAT	REVISED -
CHECKED - BRIAN CONVERSE	REVISED -

**CITY OF JOLIET**  
**WASHINGTON STREET OVER SPRING CREEK**  
**STATION 46 + 32**

**TEMPORARY SOIL RETENTION SYSTEM LAYOUT**  
**STRUCTURE NO. 099-6462**  
 STRUCTURAL SHEET NO. 2 OF 16 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	09-00426-00-BR	WILL	35	17
WHA#1143013		CONTRACT NO. 61A48		
ILLINOIS FED. AID PROJECT BRM-9003531				



**DEAD LOAD DEFLECTION DIAGRAM**  
(Includes weight of concrete slab 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 below.

**PLAN VIEW**

**LEFT EDGE OF SHOULDER**

Location	Station	Offset Lt.	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
End of Deck at W. Abut.	46+05.50	20.000'	543.92	543.92
Centerline of W. Abut.	46+06.25	20.000'	543.92	543.92
A	46+16.25	20.000'	544.01	544.16
B	46+26.25	20.000'	544.07	544.30
C	46+36.25	20.000'	544.10	544.34
D	46+46.25	20.000'	544.11	544.25
Centerline of E. Abut.	46+57.75	20.000'	544.08	544.08
End of Deck at E. Abut.	46+58.50	20.000'	544.08	544.08

**LEFT EDGE OF TRAFFIC LANE**

Location	Station	Offset Lt.	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
End of Deck at W. Abut.	46+05.50	12.000'	544.08	544.08
Centerline of W. Abut.	46+06.25	12.000'	544.09	544.09
A	46+16.25	12.000'	544.18	544.32
B	46+26.25	12.000'	544.24	544.47
C	46+36.25	12.000'	544.27	544.50
D	46+46.25	12.000'	544.27	544.42
Centerline of E. Abut.	46+57.75	12.000'	544.25	544.25
End of Deck at E. Abut.	46+58.50	12.000'	544.24	544.24

**LEFT EDGE OF SLAB**

Location	Station	Offset Lt.	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
End of Deck at W. Abut.	46+05.50	27.000'	544.00	544.00
Centerline of W. Abut.	46+06.25	27.000'	544.00	544.00
A	46+16.25	27.000'	544.09	544.24
B	46+26.25	27.000'	544.15	544.38
C	46+36.25	27.000'	544.18	544.42
D	46+46.25	27.000'	544.19	544.33
Centerline of E. Abut.	46+57.75	27.000'	544.16	544.16
End of Deck at E. Abut.	46+58.50	27.000'	544.16	544.16

**CENTERLINE OF STRUCTURE**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
End of Deck at W. Abut.	46+05.50	0.000'	544.27	544.27
Centerline of W. Abut.	46+06.25	0.000'	544.28	544.28
A	46+16.25	0.000'	544.36	544.51
B	46+26.25	0.000'	544.42	544.66
C	46+36.25	0.000'	544.46	544.69
D	46+46.25	0.000'	544.46	544.61
Centerline of E. Abut.	46+57.75	0.000'	544.44	544.44
End of Deck at E. Abut.	46+58.50	0.000'	544.43	544.43

**RIGHT EDGE OF TRAFFIC LANE**

Location	Station	Offset Rt.	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
End of Deck at W. Abut.	46+05.50	12.000'	544.08	544.08
Centerline of W. Abut.	46+06.25	12.000'	544.09	544.09
A	46+16.25	12.000'	544.18	544.32
B	46+26.25	12.000'	544.24	544.47
C	46+36.25	12.000'	544.27	544.50
D	46+46.25	12.000'	544.27	544.42
Centerline of E. Abut.	46+57.75	12.000'	544.25	544.25
End of Deck at E. Abut.	46+58.50	12.000'	544.24	544.24

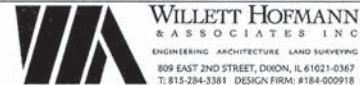
**RIGHT EDGE OF SHOULDER**

Location	Station	Offset Rt.	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
End of Deck at W. Abut.	46+05.50	20.000'	543.92	543.92
Centerline of W. Abut.	46+06.25	20.000'	543.92	543.92
A	46+16.25	20.000'	544.01	544.16
B	46+26.25	20.000'	544.07	544.30
C	46+36.25	20.000'	544.10	544.34
D	46+46.25	20.000'	544.11	544.25
Centerline of E. Abut.	46+57.75	20.000'	544.08	544.08
End of Deck at E. Abut.	46+58.50	20.000'	544.08	544.08

**RIGHT EDGE OF SLAB**

Location	Station	Offset Rt.	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
End of Deck at W. Abut.	46+05.50	27.000'	544.00	544.00
Centerline of W. Abut.	46+06.25	27.000'	544.00	544.00
A	46+16.25	27.000'	544.09	544.24
B	46+26.25	27.000'	544.15	544.38
C	46+36.25	27.000'	544.18	544.42
D	46+46.25	27.000'	544.19	544.33
Centerline of E. Abut.	46+57.75	27.000'	544.16	544.16
End of Deck at E. Abut.	46+58.50	27.000'	544.16	544.16

FILE = S:\PROJECTS\2011\143013\Joliet\DESIGN\STRUCT\Drawings\143013\_Top of Slab Elevations.dgn



DESIGNED - BRIAN CONVERSE	REVISED -
CHECKED - MEGAN CACKLEY	REVISED -
DRAWN - FRANK LACHAT	REVISED -
CHECKED - BRIAN CONVERSE	REVISED -

**CITY OF JOLIET**  
**WASHINGTON STREET OVER SPRING CREEK**  
**STATION 46 + 32**

**TOP OF SLAB ELEVATIONS**  
**STRUCTURE NO. 099-6462**

STRUCTURAL SHEET NO. 3 OF 16 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	09-00426-00-BR	WILL	35	18
WHA*1143013		CONTRACT NO. 61A48		
ILLINOIS		FED. AID PROJECT BRM-90031531		

LEFT EDGE OF APPROACH PAVEMENT

Location	Station	Offset Lt.	Theoretical Grade Elevations
A	45+75.50	26.000'	543.57
B	45+85.50	26.000'	543.73
C	45+95.50	26.000'	543.88
D	46+05.50	26.000'	544.00

LEFT EDGE OF SHOULDER

Location	Station	Offset Lt.	Theoretical Grade Elevations
A	45+75.50	20.000'	543.49
B	45+85.50	20.000'	543.65
C	45+95.50	20.000'	543.80
D	46+05.50	20.000'	543.92

LEFT EDGE OF TRAFFIC LANE

Location	Station	Offset Lt.	Theoretical Grade Elevations
A	45+75.50	12.000'	543.65
B	45+85.50	12.000'	543.81
C	45+95.50	12.000'	543.96
D	46+05.50	12.000'	544.08

CENTERLINE OF ROADWAY

Location	Station	Offset	Theoretical Grade Elevations
A	45+75.50	0.000'	543.84
B	45+85.50	0.000'	544.00
C	45+95.50	0.000'	544.15
D	46+05.50	0.000'	544.27

RIGHT EDGE OF TRAFFIC LANE

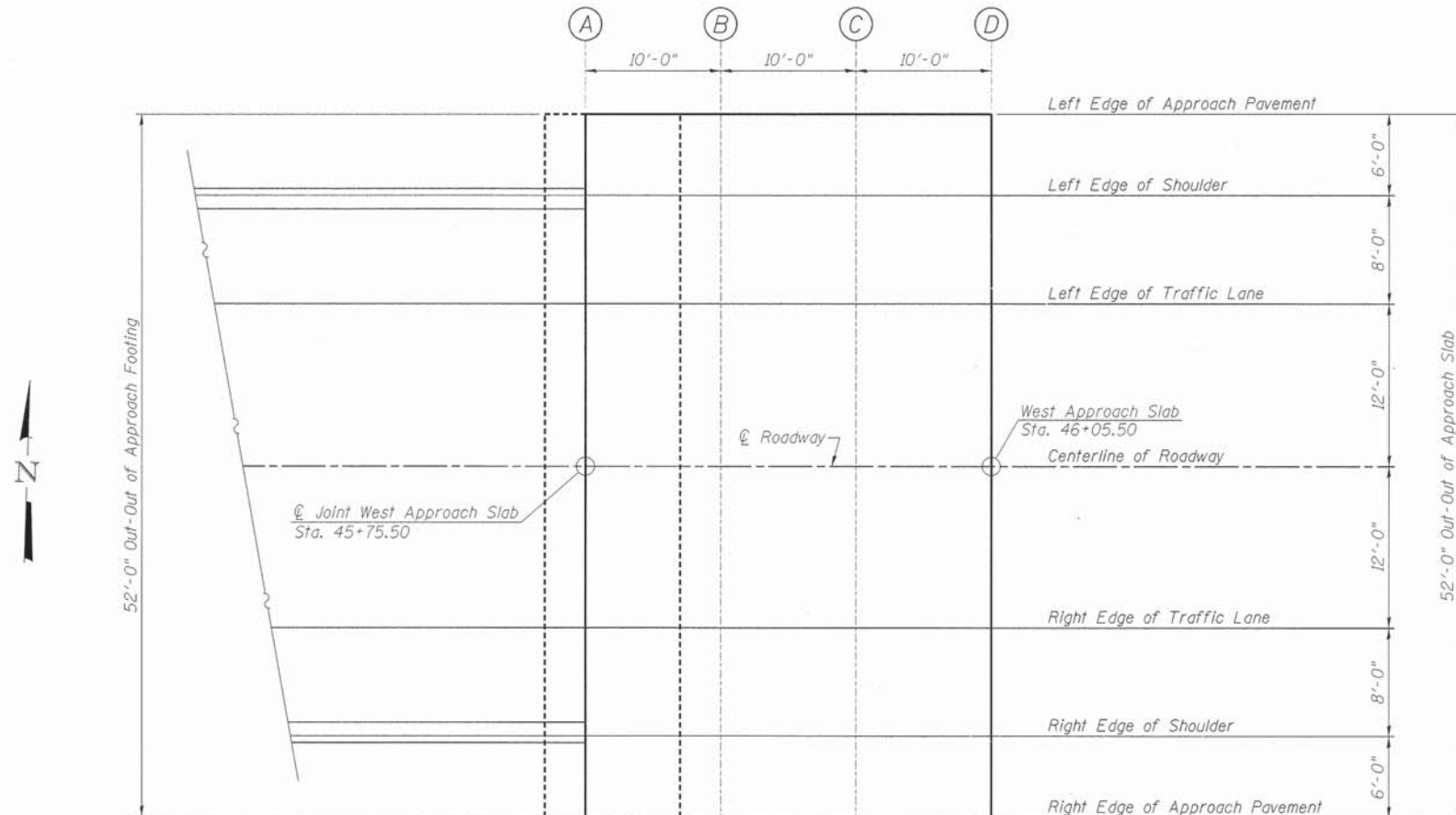
Location	Station	Offset Rt.	Theoretical Grade Elevations
A	45+75.50	12.000'	543.65
B	45+85.50	12.000'	543.81
C	45+95.50	12.000'	543.96
D	46+05.50	12.000'	544.08

RIGHT EDGE OF SHOULDER

Location	Station	Offset Rt.	Theoretical Grade Elevations
A	45+75.50	20.000'	543.49
B	45+85.50	20.000'	543.65
C	45+95.50	20.000'	543.80
D	46+05.50	20.000'	543.92

RIGHT EDGE OF APPROACH PAVEMENT

Location	Station	Offset Rt.	Theoretical Grade Elevations
A	45+75.50	26.000'	543.57
B	45+85.50	26.000'	543.73
C	45+95.50	26.000'	543.88
D	46+05.50	26.000'	544.00



PLAN VIEW

FILE = S:\PROJECTS\2017\1143013\_Joliet\DESIGN\STRUCT\Drawings\1143013\_Top of West Approach Slab Elevations.dgn



DESIGNED - BRIAN CONVERSE	REVISED -
CHECKED - MEGAN CACKLEY	REVISED -
DRAWN - FRANK LACHAT	REVISED -
CHECKED - BRIAN CONVERSE	REVISED -

**CITY OF JOLIET**  
**WASHINGTON STREET OVER SPRING CREEK**  
**STATION 46 + 32**

**TOP OF WEST APPROACH SLAB ELEVATIONS**  
**STRUCTURE NO. 099-6462**

STRUCTURAL SHEET NO. 4 OF 16 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	09-00426-00-BR	WILL	35	19
WHA*1143013		CONTRACT NO. 61A48		
ILLINOIS FED. AID PROJECT BRM-9003(531)				

**LEFT EDGE OF APPROACH PAVEMENT**

Location	Station	Offset Lt.	Theoretical Grade Elevations
A	46+58.50	26.000'	544.16
B	46+68.50	26.000'	544.11
C	46+78.50	26.000'	544.03
D	46+88.50	26.000'	543.95

**LEFT EDGE OF SHOULDER**

Location	Station	Offset Lt.	Theoretical Grade Elevations
A	46+58.50	20.000'	544.08
B	46+68.50	20.000'	544.03
C	46+78.50	20.000'	543.95
D	46+88.50	20.000'	543.87

**LEFT EDGE OF TRAFFIC LANE**

Location	Station	Offset Lt.	Theoretical Grade Elevations
A	46+58.50	12.000'	544.24
B	46+68.50	12.000'	544.19
C	46+78.50	12.000'	544.11
D	46+88.50	12.000'	544.03

**CENTERLINE OF ROADWAY**

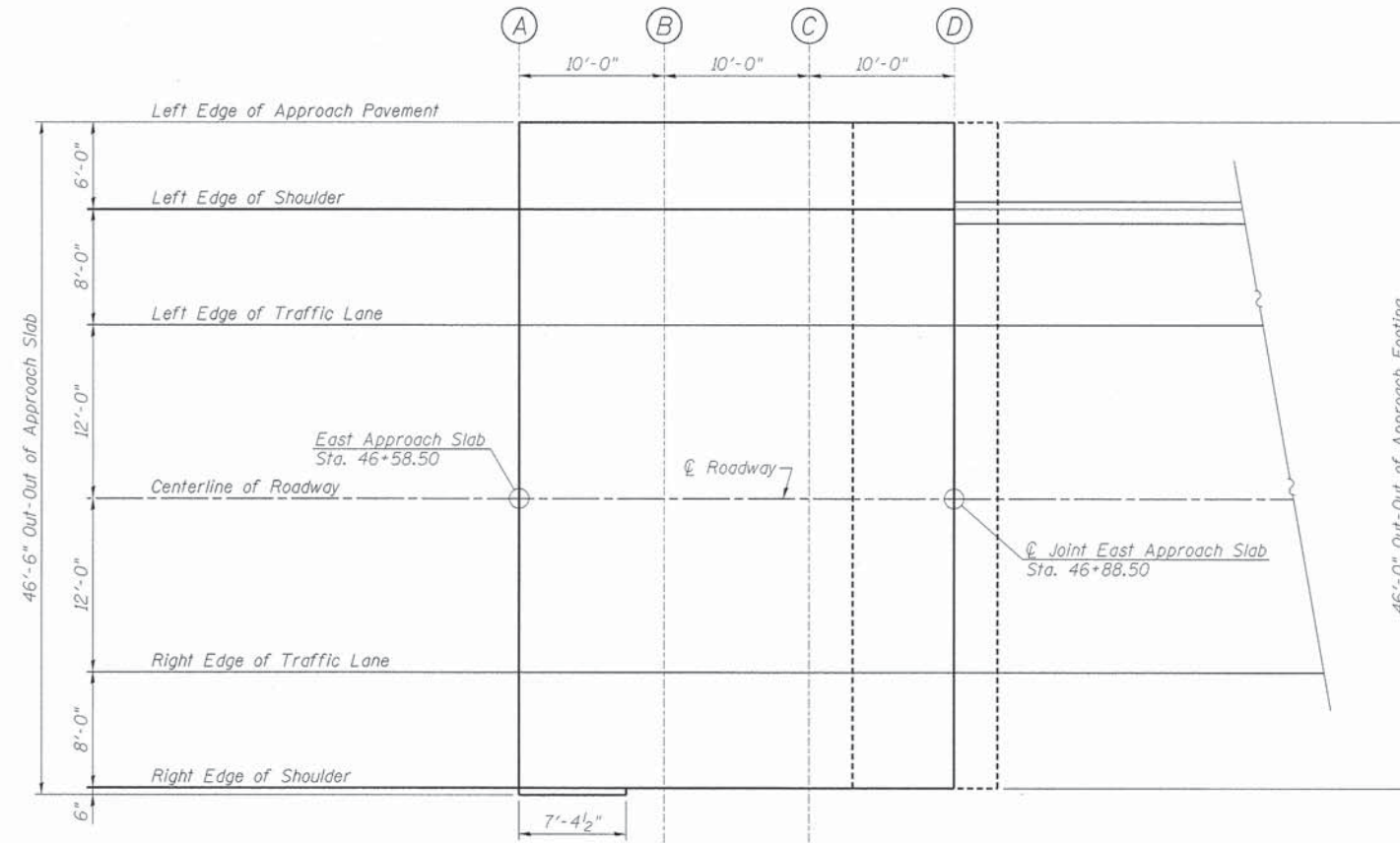
Location	Station	Offset	Theoretical Grade Elevations
A	46+58.50	0.000'	544.43
B	46+68.50	0.000'	544.38
C	46+78.50	0.000'	544.30
D	46+88.50	0.000'	544.22

**RIGHT EDGE OF TRAFFIC LANE**

Location	Station	Offset Rt.	Theoretical Grade Elevations
A	46+58.50	12.000'	544.24
B	46+68.50	12.000'	544.19
C	46+78.50	12.000'	544.11
D	46+88.50	12.000'	544.03

**RIGHT EDGE OF SHOULDER**

Location	Station	Offset Rt.	Theoretical Grade Elevations
A	46+58.50	20.000'	544.08
B	46+68.50	20.000'	544.03
C	46+78.50	20.000'	543.95
D	46+88.50	20.000'	543.87



**PLAN VIEW**

FILE = S:\PROJECTS\2815\143013\Joliet\DESIGN\STRUCT\Drawings\143013.Top of East Approach Slab Elevations.dgn

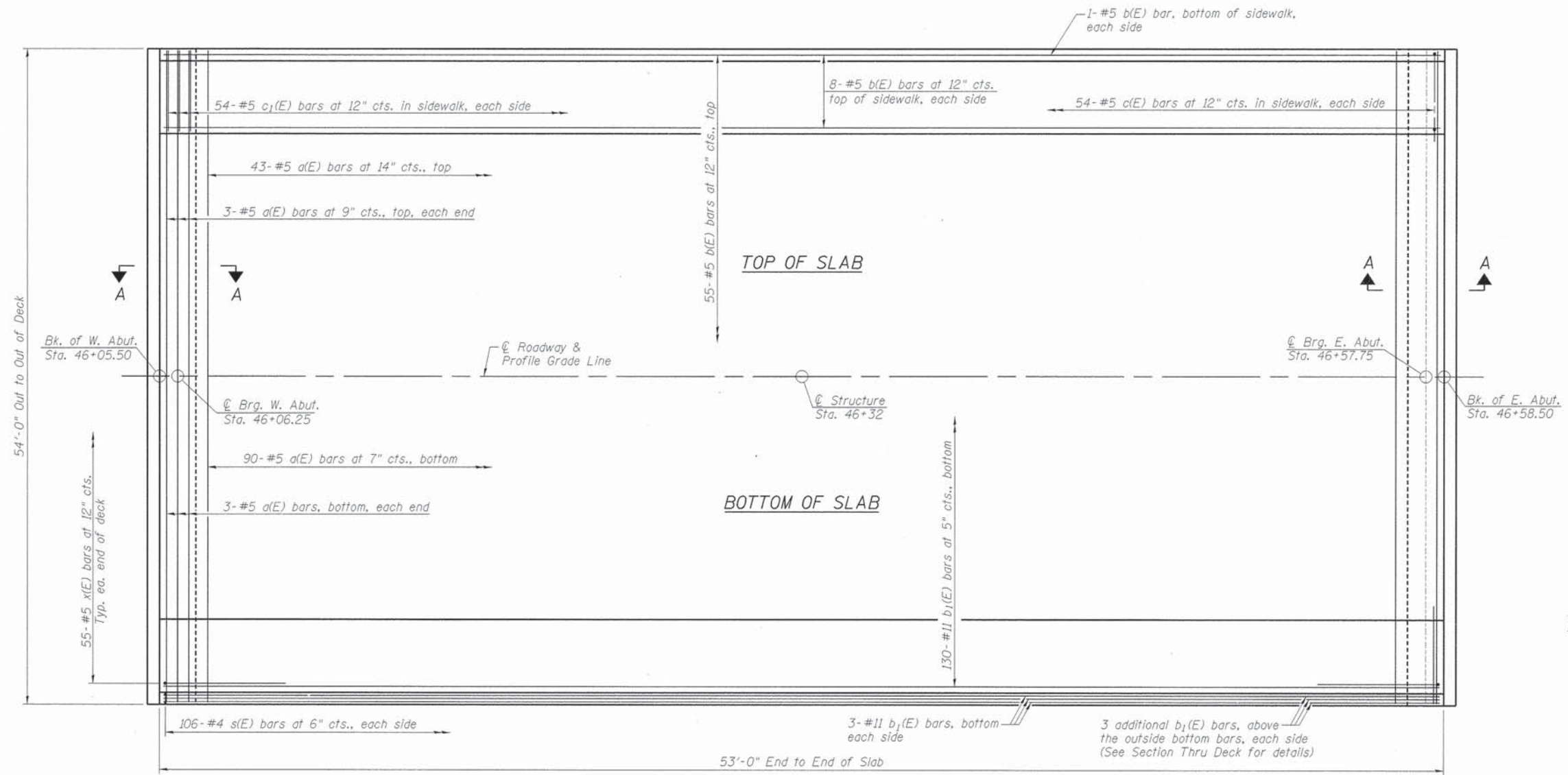


DESIGNED - BRIAN CONVERSE	REVISED -
CHECKED - MEGAN CACKLEY	REVISED -
DRAWN - FRANK LACHAT	REVISED -
CHECKED - BRIAN CONVERSE	REVISED -

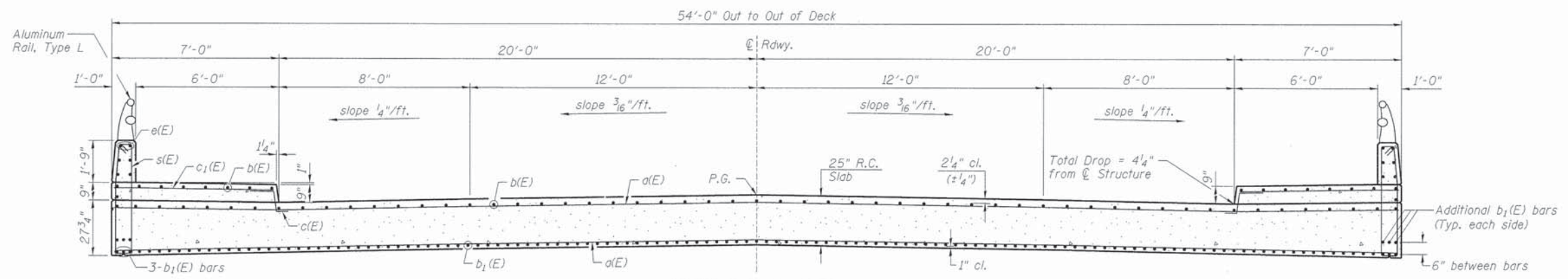
**CITY OF JOLIET  
WASHINGTON STREET OVER SPRING CREEK  
STATION 46 + 32**

**TOP OF EAST APPROACH SLAB ELEVATIONS  
STRUCTURE NO. 099-6462**  
STRUCTURAL SHEET NO. 5 OF 16 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	09-00426-00-BR	WILL	35	20
WHA*1143013		CONTRACT NO. 61A48		
ILLINOIS FED. AID PROJECT BRM-90035311				



PLAN VIEW



SECTION THRU DECK  
(Looking East)

**NOTES:**  
See Structural Sheet 7 of 16 for Section A-A, superstructure details, parapet reinforcement, and Bill of Material.

FILE: S:\PROJECTS\2015\1143013\1143013-Substructure\STRUCTURE.dwg 11/4/2015 11:43:03 AM Superstructure.edwg



DESIGNED - BRIAN CONVERSE	REVISED -
CHECKED - MEGAN CACKLEY	REVISED -
DRAWN - FRANK LACHAT	REVISED -
CHECKED - BRIAN CONVERSE	REVISED -

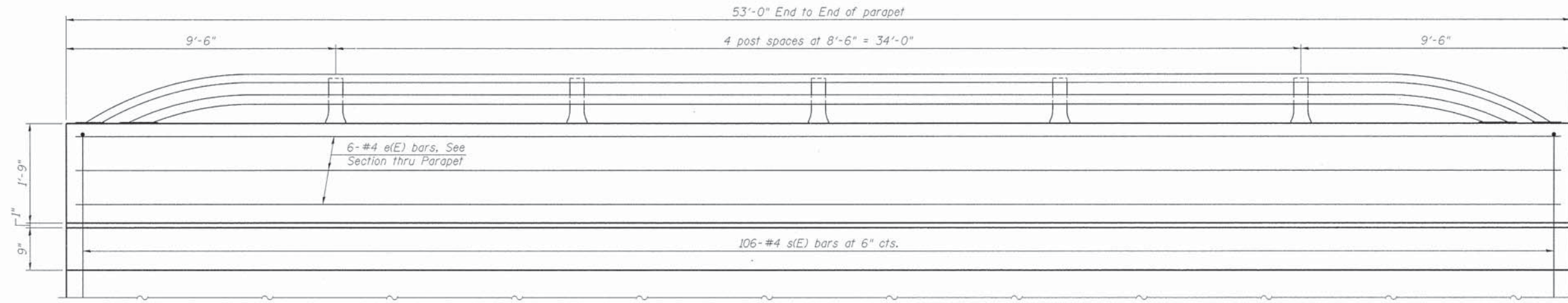
**CITY OF JOLIET**  
**WASHINGTON STREET OVER SPRING CREEK**  
**STATION 46 + 32**

**SUPERSTRUCTURE**  
**STRUCTURE NO. 099-6462**

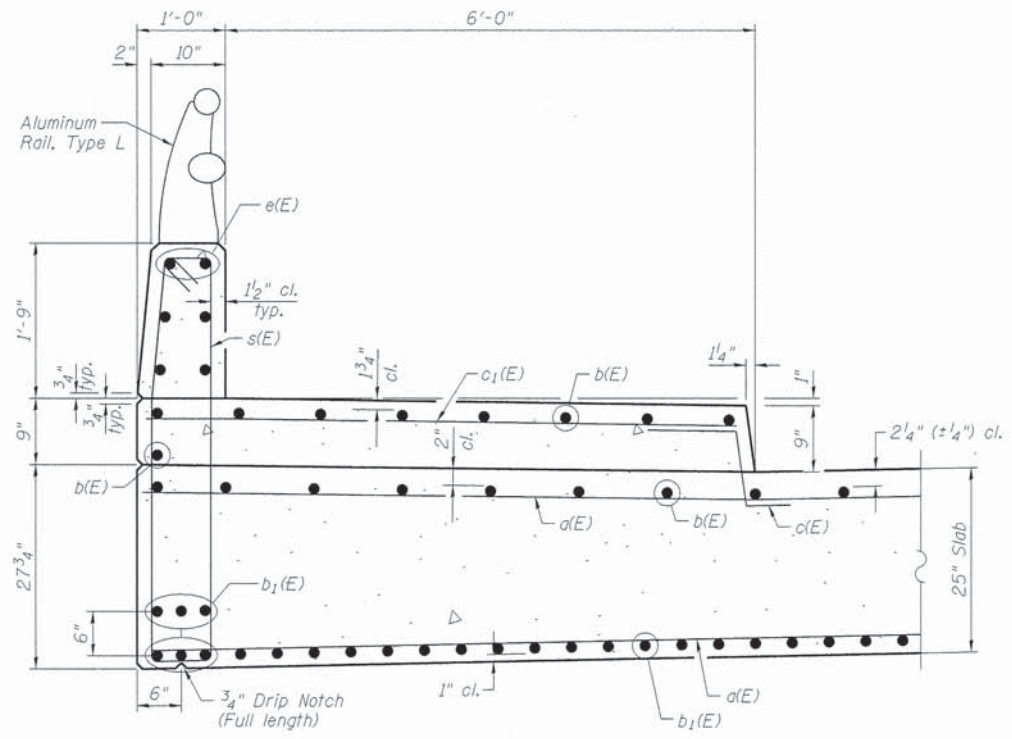
STRUCTURAL SHEET NO. 6 OF 16 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	09-00426-00-BR	WILL	35	21
WHA*1143D13		CONTRACT NO. 61A48		

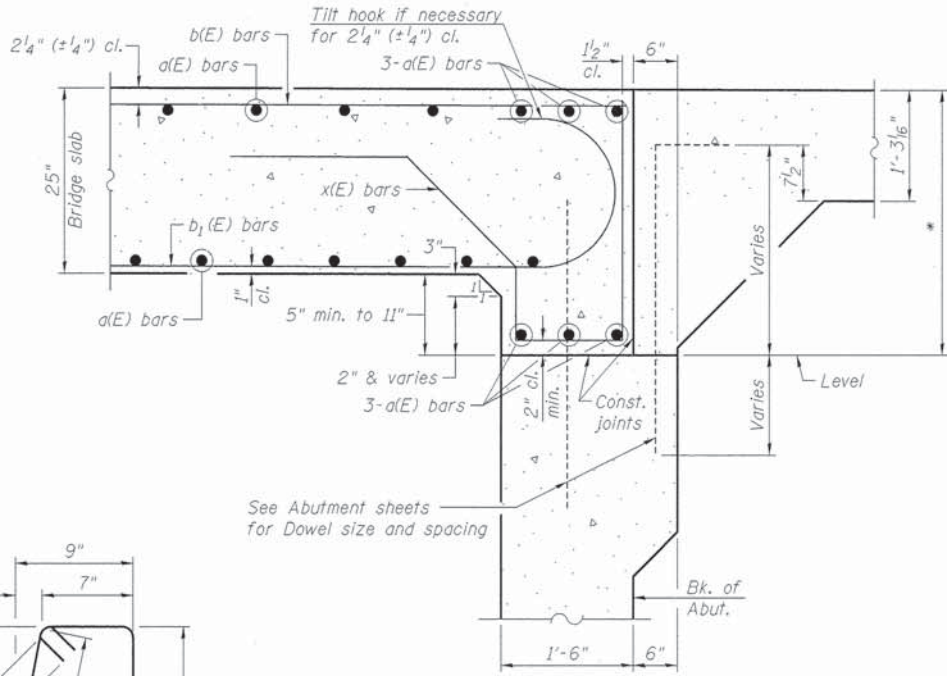
ILLINOIS FED. AID PROJECT BRN-90034531



INSIDE ELEVATION OF PARAPET

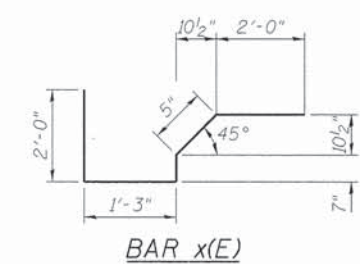


SECTION THRU EDGE OF SLAB

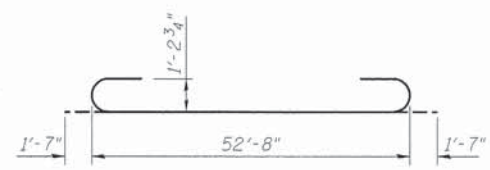


SECTION A-A

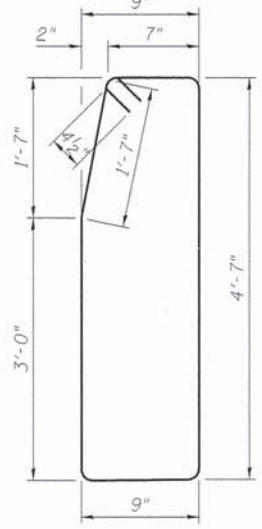
\* Pour bridge slab before pouring approach slab.



BAR x(E)



BAR b1(E)



BAR s(E)



BAR c(E)

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	145	#5	53'-8"	—
b(E)	73	#5	52'-8"	—
b1(E)	142	#11	55'-10"	U
c(E)	108	#5	2'-5"	L
c1(E)	108	#5	6'-6"	—
e(E)	12	#4	52'-8"	—
s(E)	212	#4	11'-3"	□
x(E)	110	#5	6'-3"	L
Concrete Superstructure			Cu. Yd.	254.8
Bridge Deck Grooving			Sq. Yd.	224
Protective Coat			Sq. Yd.	344
Reinforcement Bars, Epoxy Coated			Pound	57,990

NOTES:

All edges shall have 3/4" chamfers unless otherwise noted.

FILE: S:\PROJECTS\2011\143013-Joliet\STRUCTURE\143013\_Superstructure\_Details.dwg

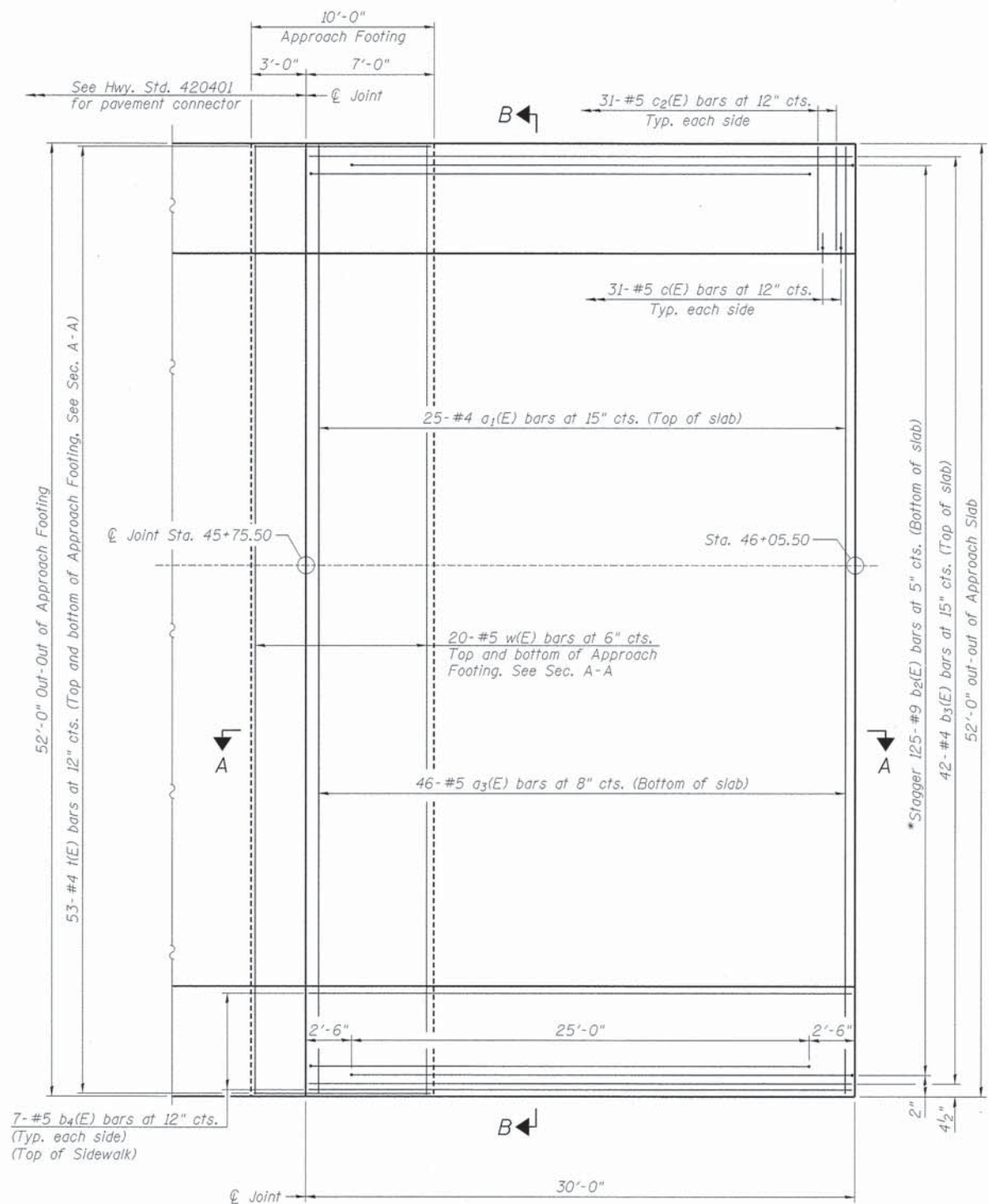
**WILLET HOFMANN & ASSOCIATES INC.**  
 ENGINEERING ARCHITECTURE LAND SURVEYING  
 809 EAST 2ND STREET, DODON, IL 61021-0367  
 T: 815-284-3381 DESIGN FIRM: #184-000918

DESIGNED - BRIAN CONVERSE	REVISED -
CHECKED - MEGAN CACKLEY	REVISED -
DRAWN - FRANK LACHAT	REVISED -
CHECKED - BRIAN CONVERSE	REVISED -

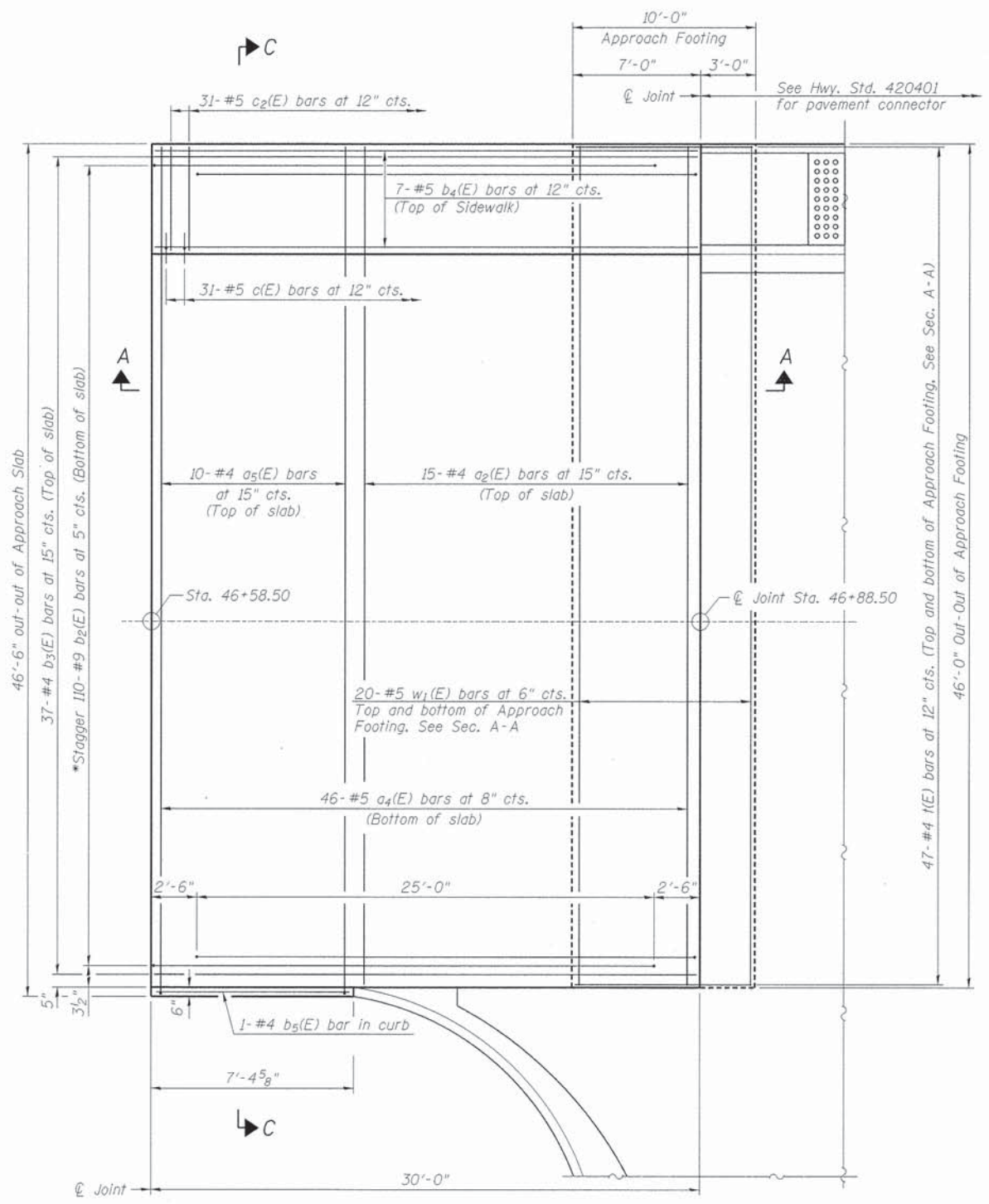
**CITY OF JOLIET**  
**WASHINGTON STREET OVER SPRING CREEK**  
**STATION 46 + 32**

**SUPERSTRUCTURE DETAILS**  
**STRUCTURE NO. 099-6462**  
 STRUCTURAL SHEET NO. 7 OF 16 SHEETS

F.A.U. RTE. 307	SECTION 09-00426-00-BR	COUNTY WILL	TOTAL SHEETS 35	SHEET NO. 22
WHA*1143D13			CONTRACT NO. 61A48	
ILLINOIS FED. AID PROJECT BRM-9003(531)				



**PLAN VIEW**  
(West Abutment)

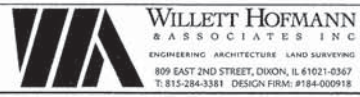


**PLAN VIEW**  
(East Abutment)

**NOTES:**

See Structural Sheet 9 of 16 for Sections A-A, B-B & C-C.  
 $a_1(E)$  thru  $a_5(E)$  bar spacings measured along  $\text{CL}$  Rdwy.  
 The joint opening shall be determined per Article 520.04 except that on jointless structures, the distance described as the bridge length between the nearest fixed bearings each way from the joint shall be taken as half the bridge length plus the approach slab length. The minimum dimension shall be  $1\frac{1}{2}$ " for installation purposes.  
 \* Tilt #9  $b_2(E)$  bars as required to maintain clearance.

FILE: S:\PROJECTS\2013\1143013 - Joliet\DESIGN\STRUCT\Drawings\1143013 West and East Bridge Approach Slab Detail.dwg

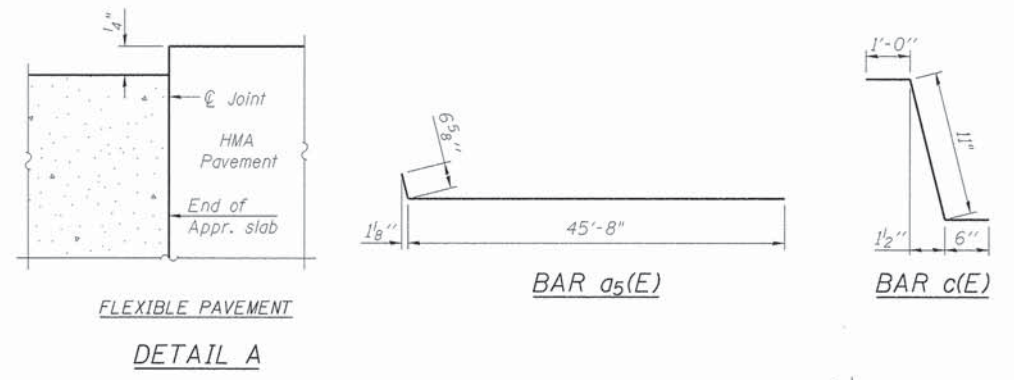
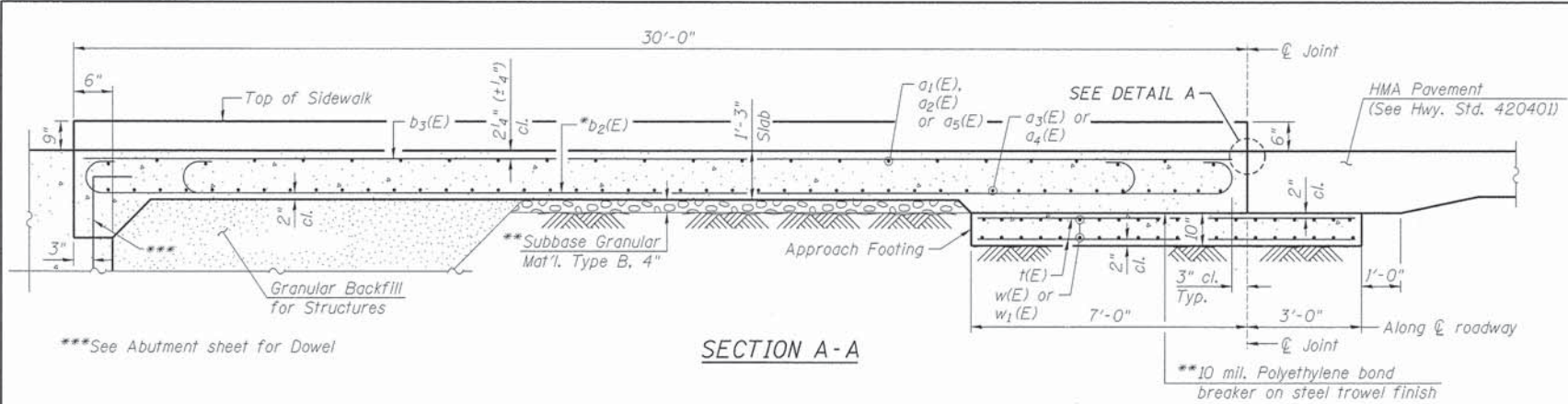


DESIGNED - BRIAN CONVERSE	REVISED -
CHECKED - MEGAN CACKLEY	REVISED -
DRAWN - FRANK LACHAT	REVISED -
CHECKED - BRIAN CONVERSE	REVISED -

**CITY OF JOLIET**  
**WASHINGTON STREET OVER SPRING CREEK**  
**STATION 46 + 32**

**WEST AND EAST BRIDGE APPROACH SLAB DETAILS**  
**STRUCTURE NO. 099-6462**  
 STRUCTURAL SHEET NO. 8 OF 16 SHEETS

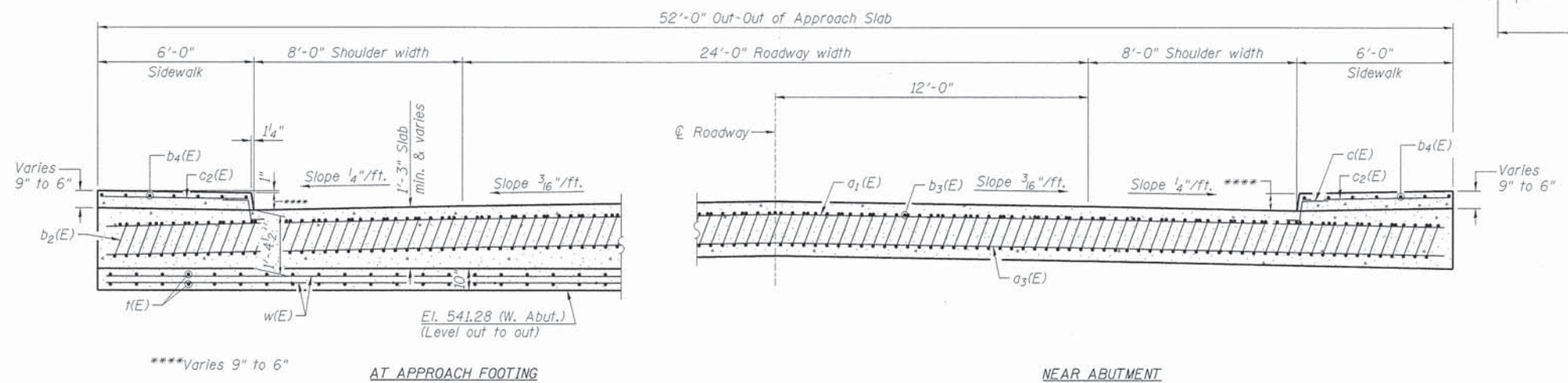
F.A.U. RTE. 307	SECTION 09-00426-00-BR	COUNTY WILL	TOTAL SHEETS 35	SHEET NO. 23
WHA*1143013		CONTRACT NO. 61A48		
ILLINOIS FED. AID PROJECT BRM-90035311				



\*\*\*See Abutment sheet for Dowel

SECTION A-A

FLEXIBLE PAVEMENT  
DETAIL A

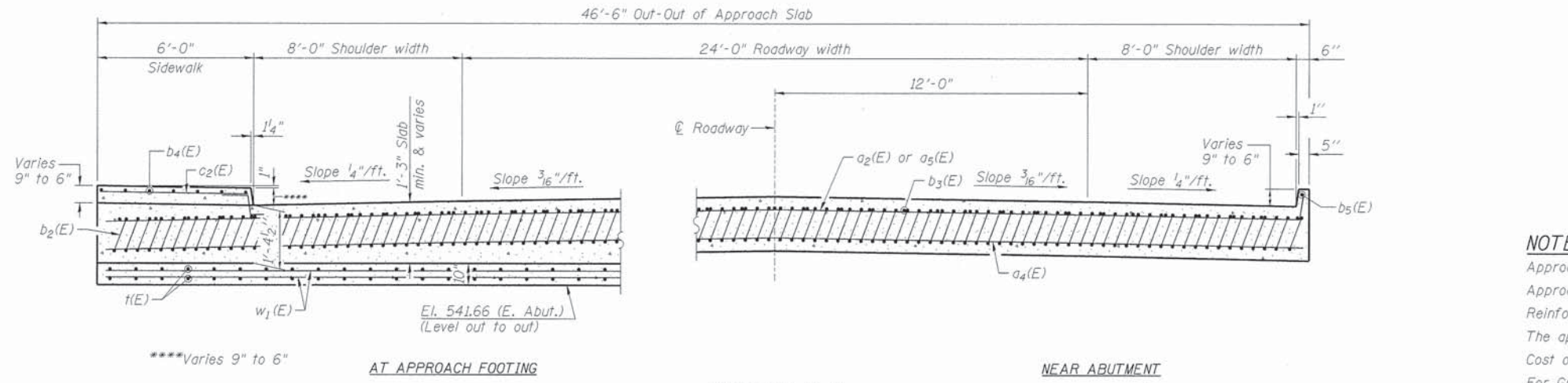


\*\*\*\*Varies 9" to 6"

AT APPROACH FOOTING

SECTION B-B  
(See Plan for dimensions not shown)

NEAR ABUTMENT



\*\*\*\*Varies 9" to 6"

AT APPROACH FOOTING

SECTION C-C  
(See Plan for dimensions not shown)

NEAR ABUTMENT

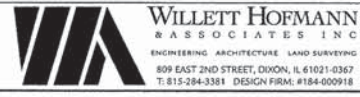
BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a <sub>1</sub> (E)	25	#4	51'-8"	—	
a <sub>2</sub> (E)	15	#4	45'-8"	—	
a <sub>3</sub> (E)	46	#5	51'-8"	—	
a <sub>4</sub> (E)	46	#5	45'-8"	—	
a <sub>5</sub> (E)	10	#5	46'-3"	—	
b <sub>2</sub> (E)	235	#9	29'-9"	—	
b <sub>3</sub> (E)	79	#4	29'-8"	—	
b <sub>4</sub> (E)	21	#4	29'-8"	—	
b <sub>5</sub> (E)	1	#4	7'-0"	—	
c(E)	93	#5	2'-5"	—	
c <sub>2</sub> (E)	93	#5	5'-9"	—	
t(E)	200	#4	9'-8"	—	
w(E)	40	#5	51'-8"	—	
w <sub>1</sub> (E)	40	#5	45'-8"	—	
Concrete Structures				Cu. Yd.	30.3
Concrete Superstructure				Cu. Yd.	161.4
Bridge Deck Grooving				Sq. Yd.	254
Protective Coating				Sq. Yd.	333
Reinforcement Bars, Epoxy Coated				Pound	38,380

NOTES:

- Approach slab concrete shall be paid for as Concrete Superstructure.
- Approach footing concrete shall be paid for as Concrete Structures.
- Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
- The approach footing maximum applied service bearing pressure (Q<sub>max</sub>) = 2.0 ksf.
- Cost of excavation for approach footing included with Concrete Structures.
- For Granular Backfill for Structures, see Structural Sheet 11 & 13 of 16.
- \* Tilt #9 b<sub>2</sub>(E) & b<sub>7</sub>(E) bars as required to maintain clearance.
- \*\* Cost included with Concrete Superstructure.

FILE = S:\PROJECTS\2013\1143013\Joliet\DESIGN\STRUCT\Drawings\1143013\_West and East Bridge Approach Slab Details.dgn



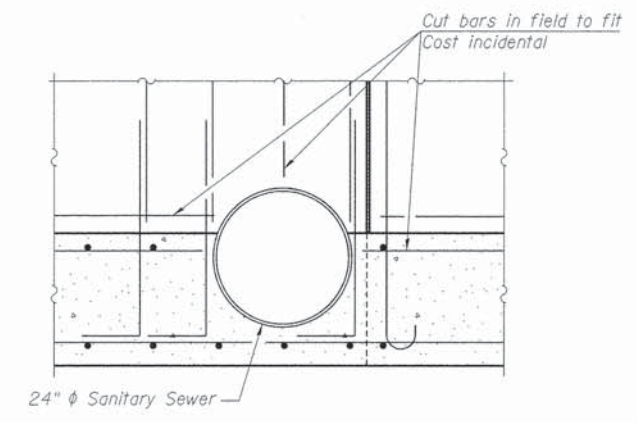
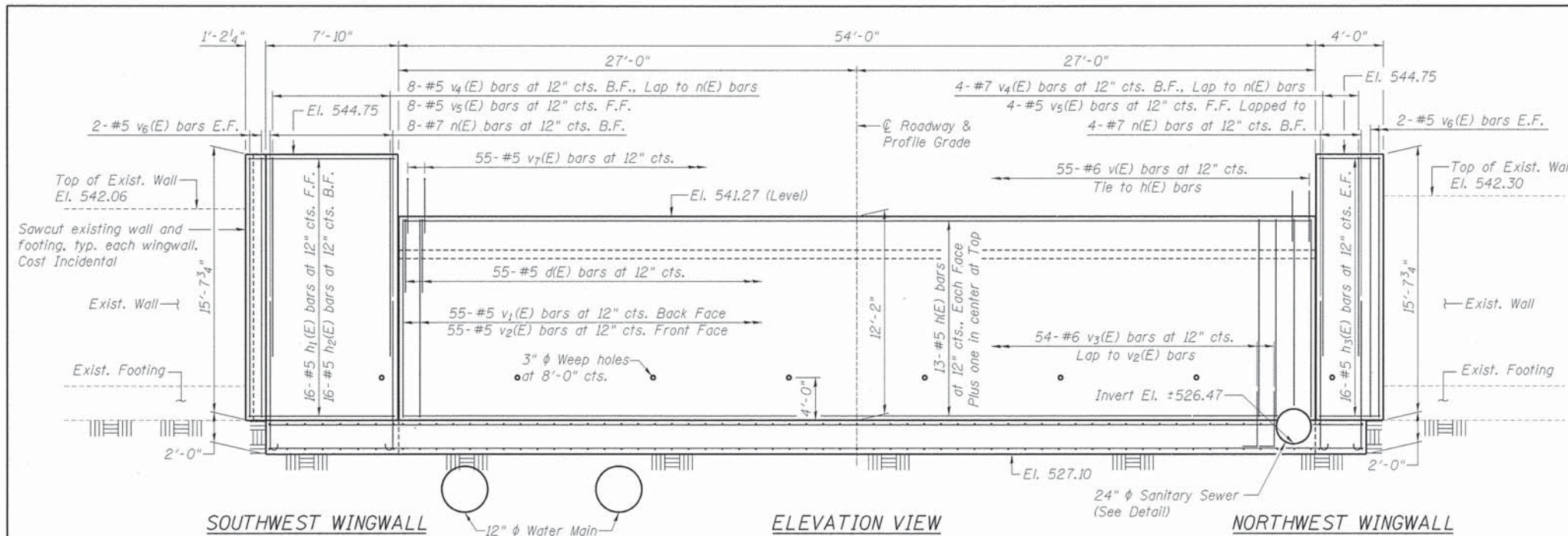
DESIGNED - BRIAN CONVERSE	REVISED -
CHECKED - MEGAN CACKLEY	REVISED -
DRAWN - FRANK LACHAT	REVISED -
CHECKED - BRIAN CONVERSE	REVISED -

CITY OF JOLIET  
WASHINGTON STREET OVER SPRING CREEK  
STATION 46 + 32

WEST AND EAST BRIDGE APPROACH SLAB DETAILS  
STRUCTURE NO. 099-6462  
STRUCTURAL SHEET NO. 9 OF 16 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	09-00426-00-BR	WILL	35	24
WHA#1143013		CONTRACT NO. 61A48		
ILLINOIS FED. AID PROJECT BRM-9003/5311				

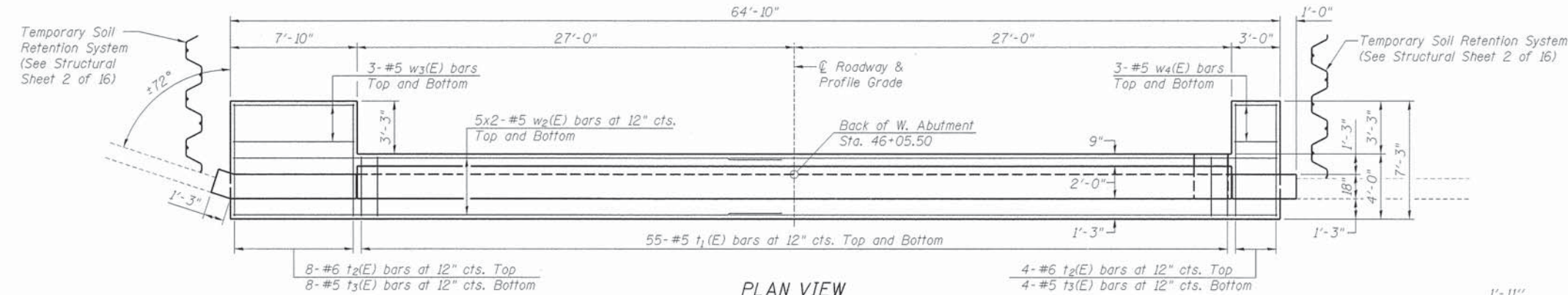




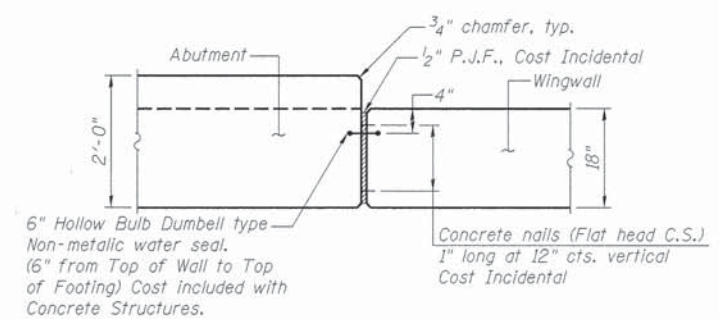
**SANITARY SEWER DETAIL**  
Place and secure Sanitary Sewer pipe, then pour concrete footing, then abutment walls.

**WEST ABUTMENT  
BILL OF MATERIAL**

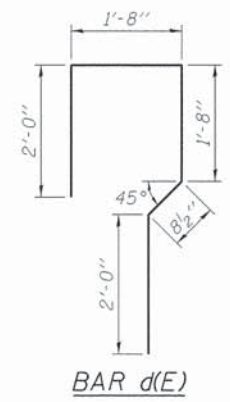
Bar	No.	Size	Length	Shape
d(E)	55	#5	8'-1"	□
n(E)	27	#5	53'-8"	—
h1(E)	16	#5	8'-7"	—
h2(E)	16	#5	8'-3"	—
h3(E)	32	#5	3'-8"	—
n(E)	12	#7	9'-10"	—
t1(E)	110	#5	3'-8"	—
t2(E)	12	#6	6'-11"	—
t3(E)	12	#5	6'-11"	—
v(E)	55	#6	3'-0"	—
v1(E)	55	#5	9'-6"	—
v2(E)	55	#5	11'-10"	—
v3(E)	54	#6	4'-3"	—
v4(E)	12	#5	11'-11"	—
v5(E)	12	#5	15'-5"	—
v6(E)	8	#5	15'-3"	—
v7(E)	55	#5	5'-2"	—
w2(E)	20	#5	33'-11"	—
w3(E)	6	#5	7'-6"	—
w4(E)	6	#5	2'-8"	—
Structure Excavation			Cu. Yd.	132
Concrete Structures			Cu. Yd.	71.7
Reinforcement Bars, Epoxy Coated			Pound	6,560
Geocomposite Wall Drain			Sq. Yd.	51
Granular Backfill for Structures			Cu. Yd.	339



**PLAN VIEW**



**EXPANSION JOINT**  
(North & South Wingwalls)



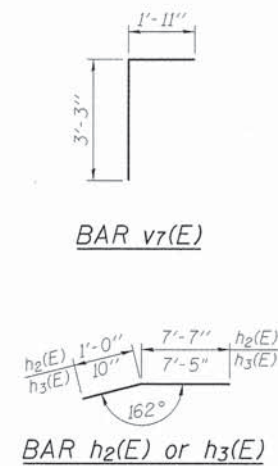
**BAR d(E)**



**BAR v3(E)**



**BAR n(E)**



**BAR h2(E) or h3(E)**

**BAR v7(E)**

**NOTATIONS**

F.F.	- Front Face
B.F.	- Back Face
E.F.	- Each Face

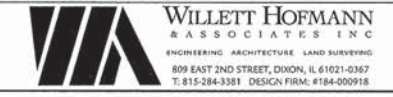
**MIN. BAR LAPS**

BAR	LAP
#4	2'-7"
#5	3'-3"
#6	3'-10"

**NOTES:**

All exposed edges shall have standard 3/4" chamfers, except as noted.  
5x2-#5 etc. indicates five lines of bars with two lengths per line.  
Max Rock Bearing Pressure w/Service Loads = 5.74 ksf.  
See Structural Sheet 2 of 16 for Rock Excavation quantity.  
See Structural Sheet 11 of 16 for Section Thru Abutment & Section Thru Wingwall.  
Footings shall be poured directly against the rock, no footing formwork allowed.

FILE: S:\PROJECTS\2013\1143013\DESIGN\STRUCT\Drawings\1143013\_West\_Abutment\_Sheet.dgn

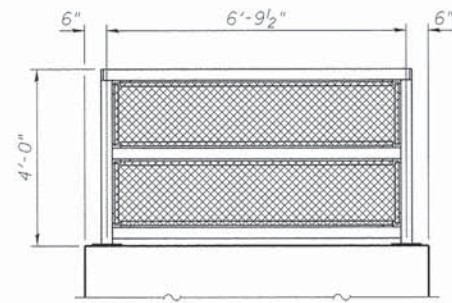


DESIGNED - BRIAN CONVERSE	REVISED -
CHECKED - MEGAN CACKLEY	REVISED -
DRAWN - FRANK LACHAT	REVISED -
CHECKED - BRIAN CONVERSE	REVISED -

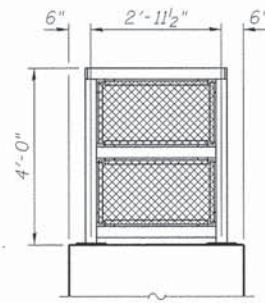
**CITY OF JOLIET**  
**WASHINGTON STREET OVER SPRING CREEK**  
**STATION 46+32**

**WEST ABUTMENT SHEET**  
**STRUCTURE NO. 099-6462**  
STRUCTURAL SHEET NO. 10 OF 16 SHEETS

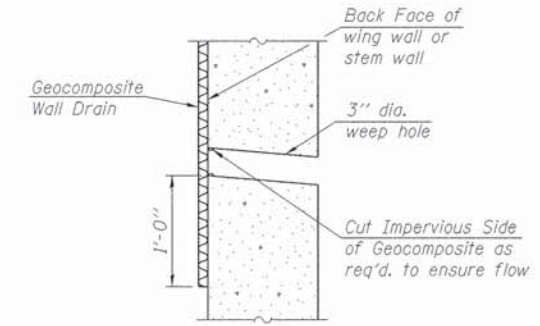
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	09-00426-00-BR	WILL	35	25
WHA*1143013		CONTRACT NO. 61A48		
ILLINOIS FED. AID PROJECT BRM-90031531				



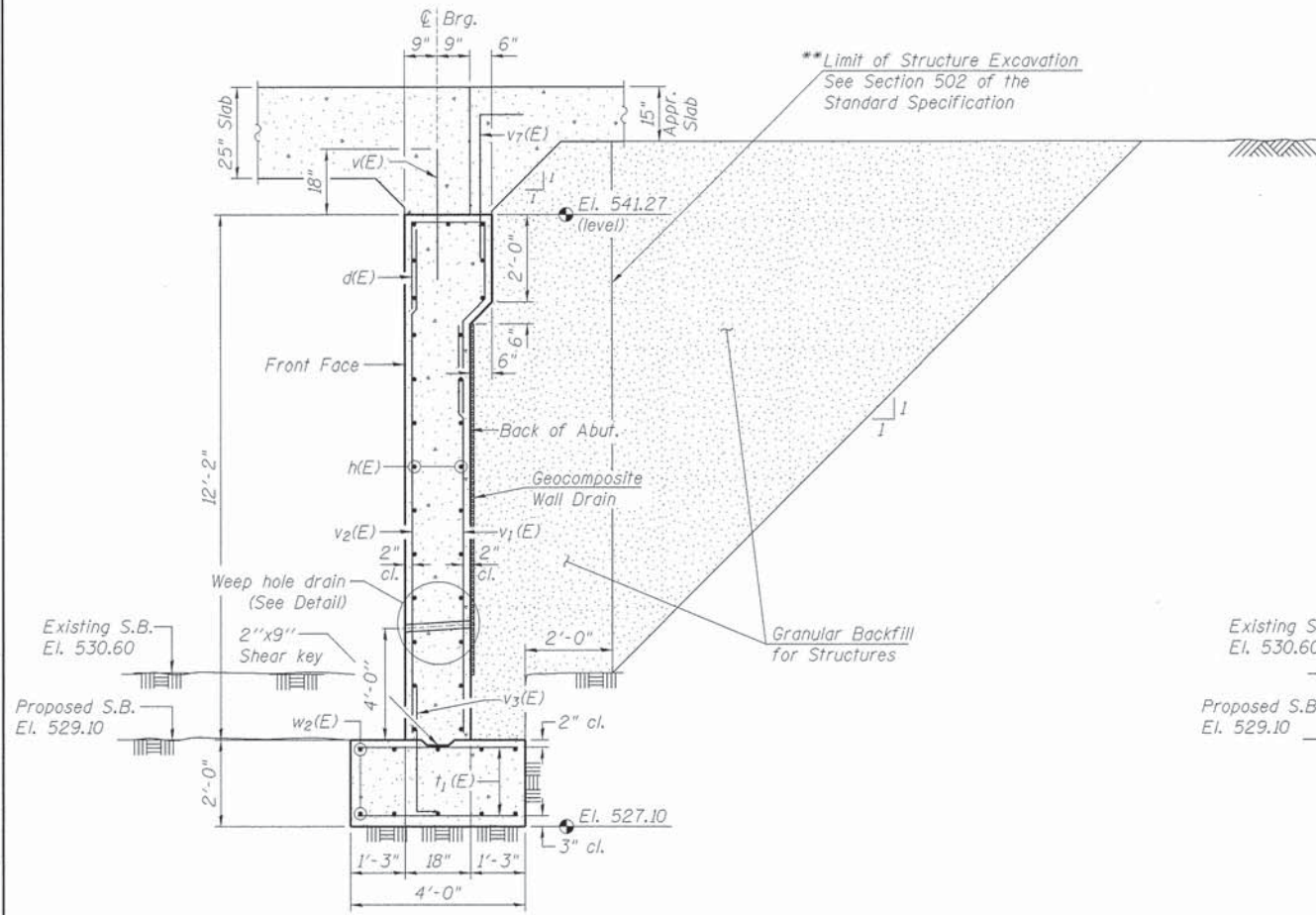
SOUTHWEST WINGWALL FENCE LAYOUT



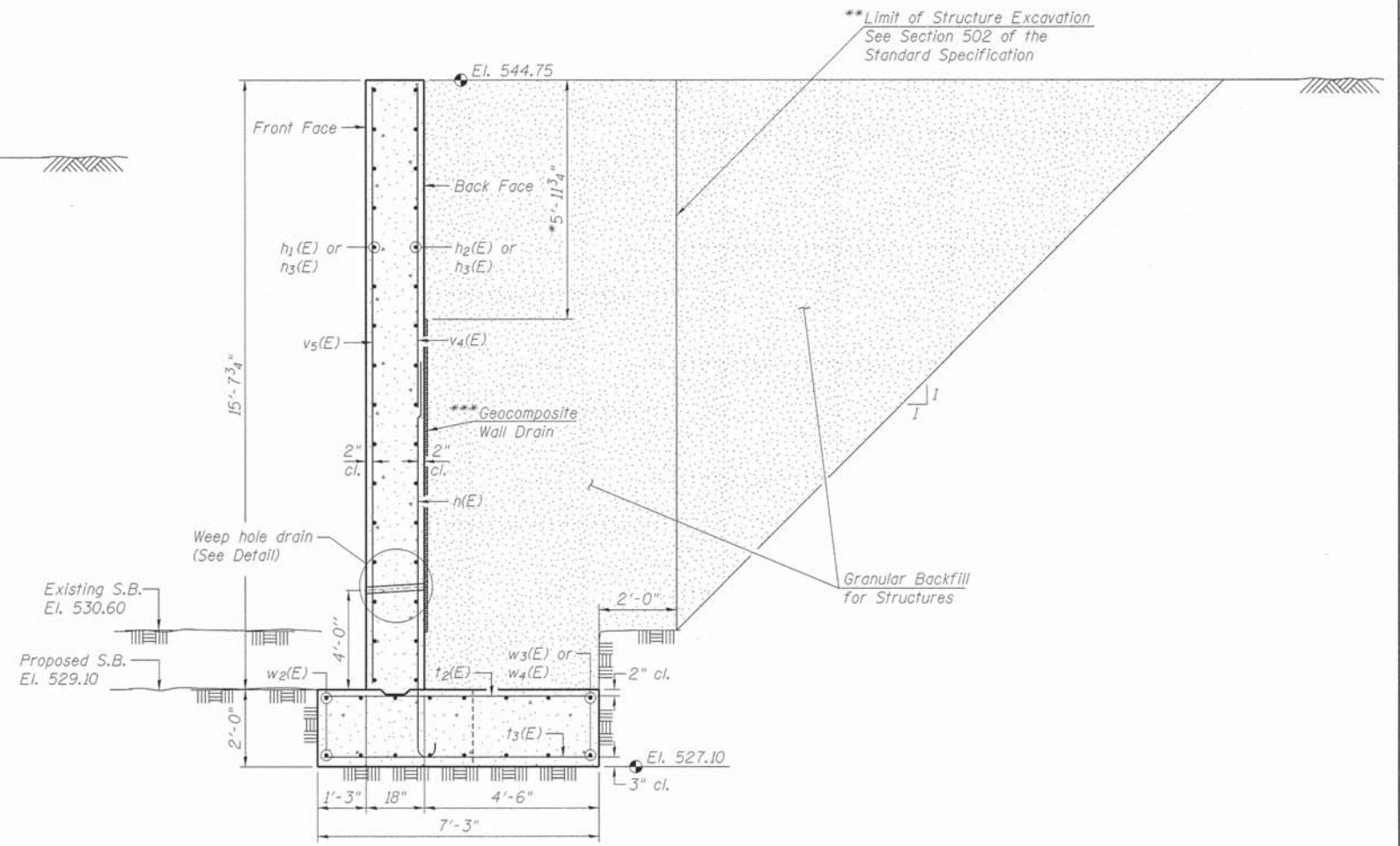
NORTHWEST WINGWALL FENCE LAYOUT



WEEP HOLE DRAIN DETAIL



SECTION THRU ABUTMENT



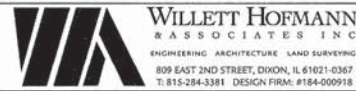
SECTION THRU WINGWALL

\*Bottom of Corbel at Abutment location

\*\*Structure Excavation paid to 2' behind footing per Section 502 of the Standard Specifications, Granular Backfill for Structures to be paid as shown.

\*\*\*Extend onto existing concrete retaining wall a minimum of 6".

FILE # S:\PROJECTS\2013\1143013\Joliet\DESIGN\STRUCT\Drawings\1143013\_Mest\_Abutment\_Details.rvt



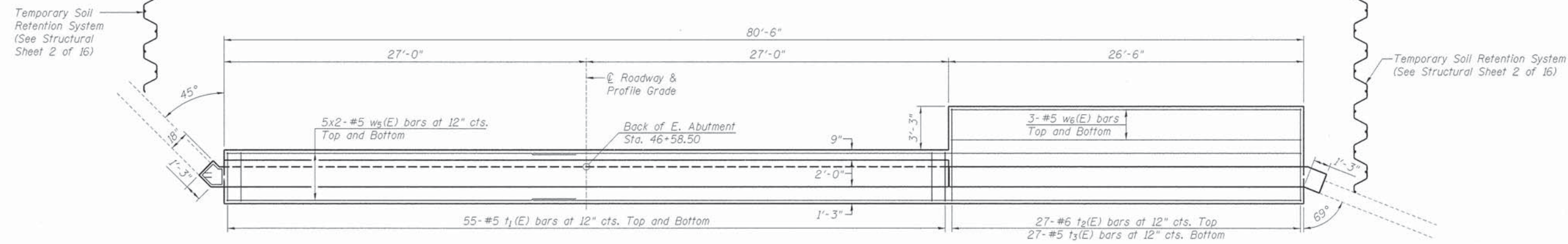
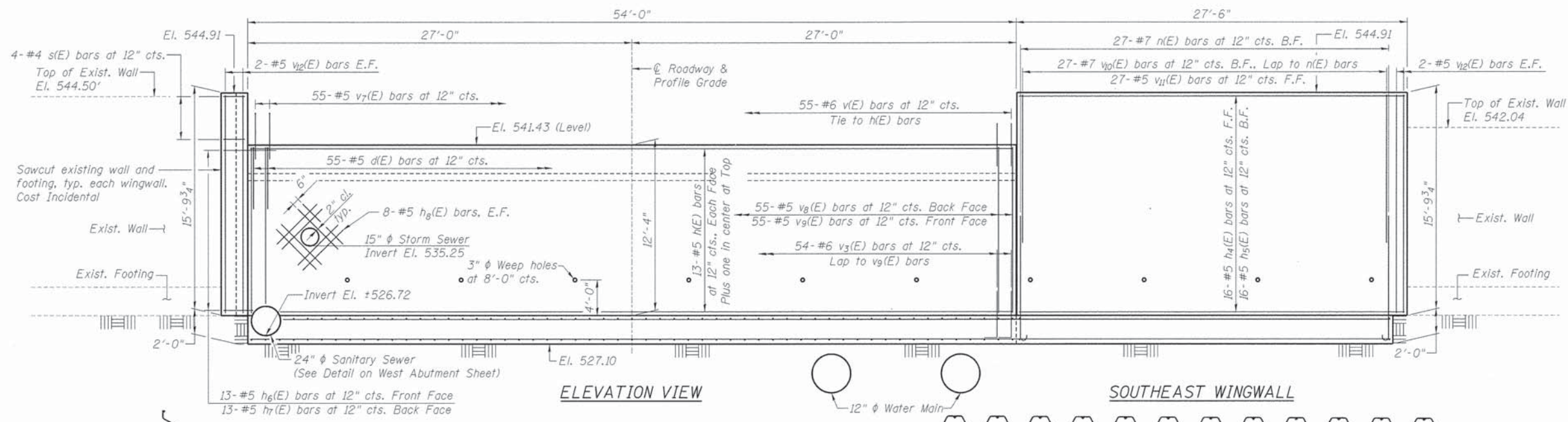
DESIGNED - BRIAN CONVERSE	REVISED -
CHECKED - MEGAN CACKLEY	REVISED -
DRAWN - FRANK LACHAT	REVISED -
CHECKED - BRIAN CONVERSE	REVISED -

CITY OF JOLIET  
WASHINGTON STREET OVER SPRING CREEK  
STATION 46 + 32

WEST ABUTMENT DETAILS  
STRUCTURE NO. 099-6462

STRUCTURAL SHEET NO. 11 OF 16 SHEETS

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	09-00426-00-BR	WILL	35	26
WHA*1143013			CONTRACT NO. 61A48	
ILLINOIS FED. AID PROJECT BRM-90035311				



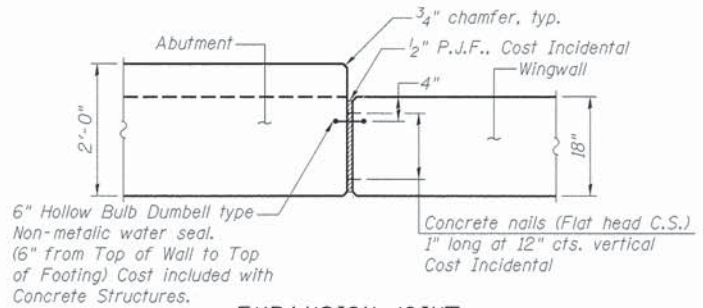
**NOTE:**  
See Structural Sheet 13 of 16 for Section Thru Abutment & Section Thru Southeast Wingwall.

**NOTATIONS**

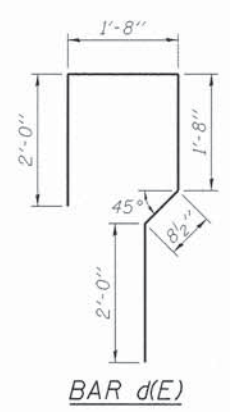
F.F.	- Front Face
B.F.	- Back Face
E.F.	- Each Face

**MIN. BAR LAPS**

BAR	LAP
#4	2'-7"
#5	3'-3"
#6	3'-10"



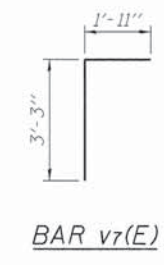
**EXPANSION JOINT**  
(Southeast Wingwall)



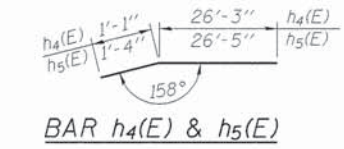
**BAR d(E)**



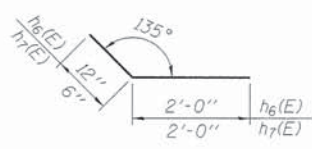
**BAR n(E)**



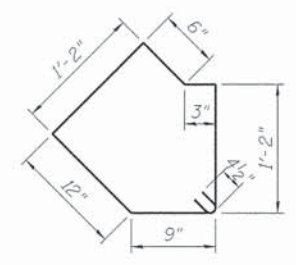
**BAR v3(E)**



**BAR h4(E) & h5(E)**



**BAR h6(E) & h7(E)**



**BAR s(E)**

FILE = S:\PROJECTS\2011\143013\_Joliet\DESIGN\STRUCT\Drawings\143013\_East Abutment Sheet.dwg

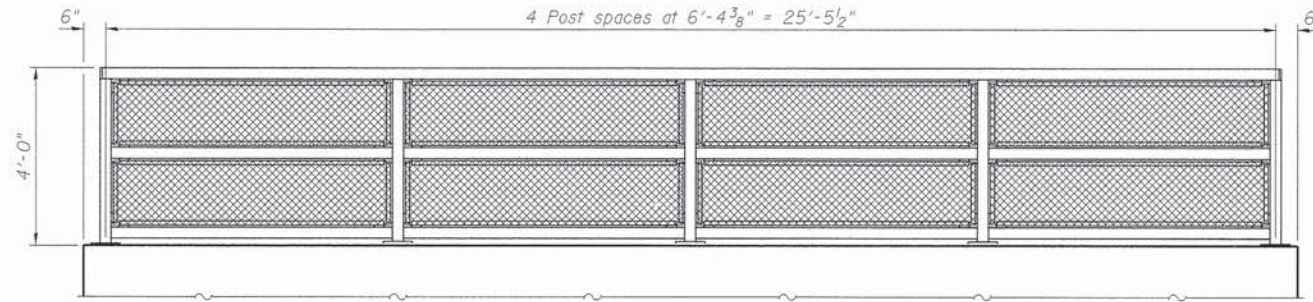


DESIGNED	- BRIAN CONVERSE	REVISED	-
CHECKED	- MEGAN CACKLEY	REVISED	-
DRAWN	- FRANK LACHAT	REVISED	-
CHECKED	- BRIAN CONVERSE	REVISED	-

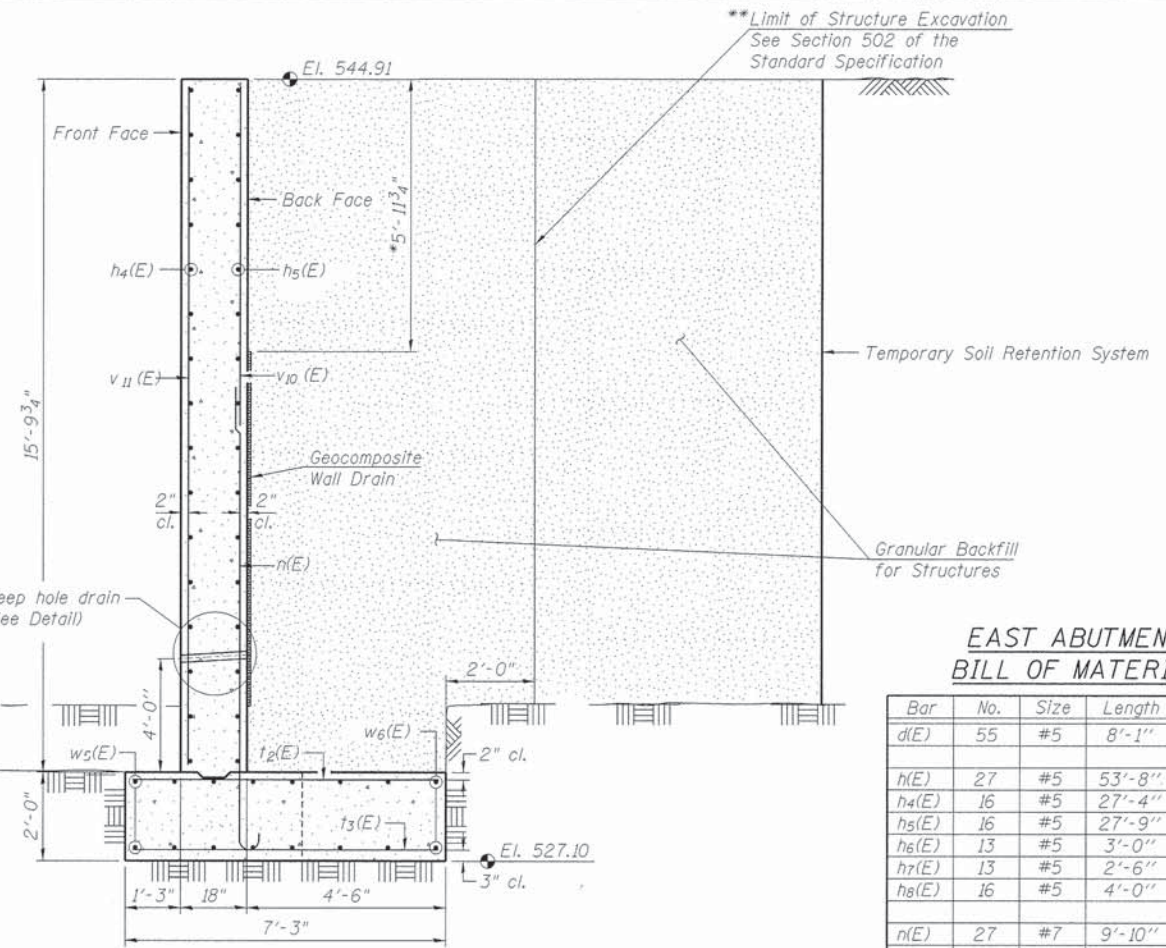
**CITY OF JOLIET**  
**WASHINGTON STREET OVER SPRING CREEK**  
**STATION 46+32**

**EAST ABUTMENT SHEET**  
**STRUCTURE NO. 099-6462**  
STRUCTURAL SHEET NO. 12 OF 16 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	09-00426-00-BR	WILL	35	27
WHA*1143013			CONTRACT NO. 61A48	
ILLINOIS FED. AID PROJECT BRM-90035331				

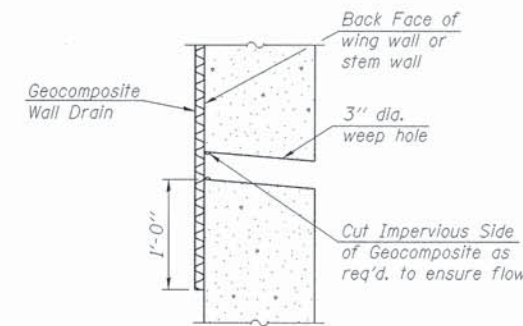


SOUTHEAST WINGWALL FENCE LAYOUT

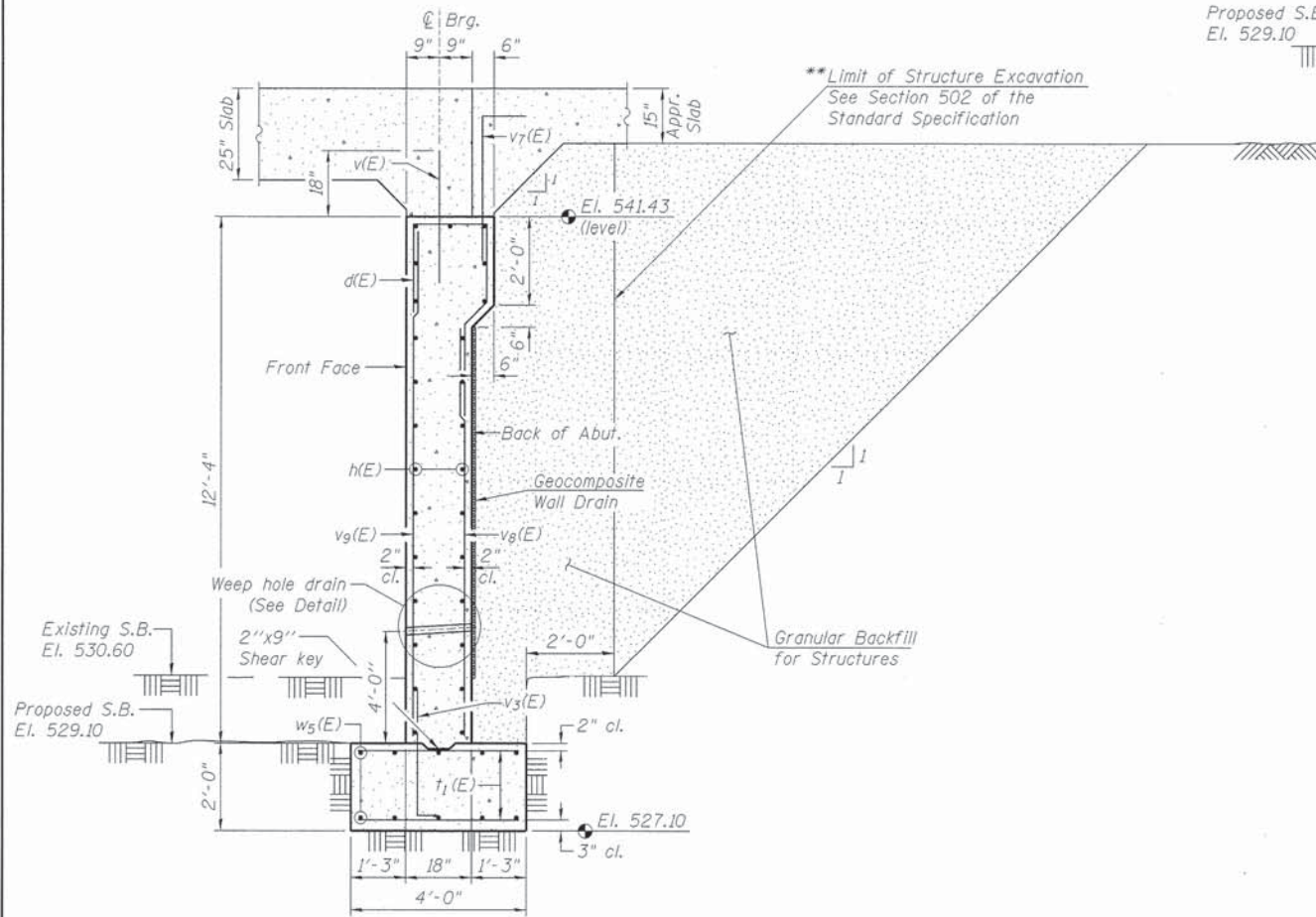


SECTION THRU SOUTHEAST WINGWALL

\*Bottom of Corbel at Abutment location  
 \*\*Structure Excavation paid to 2' behind footing per Section 502 of the Standard Specifications. Granular Backfill for Structures to be paid as shown



WEEP HOLE DRAIN DETAIL



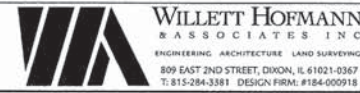
SECTION THRU ABUTMENT

EAST ABUTMENT  
 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	55	#5	8'-1"	⌈
h(E)	27	#5	53'-8"	—
h4(E)	16	#5	27'-4"	—
h5(E)	16	#5	27'-9"	—
h6(E)	13	#5	3'-0"	—
h7(E)	13	#5	2'-6"	—
h8(E)	16	#5	4'-0"	—
n(E)	27	#7	9'-10"	—
t1(E)	110	#5	3'-8"	—
t2(E)	27	#6	6'-11"	—
t3(E)	27	#5	6'-11"	—
v(E)	55	#6	3'-0"	—
v3(E)	54	#6	4'-3"	⌈
v7(E)	55	#5	5'-2"	⌈
v8(E)	55	#5	9'-8"	—
v9(E)	55	#5	12'-2"	—
v10(E)	27	#5	11'-8"	—
v11(E)	27	#5	15'-7"	—
v12(E)	8	#5	15'-5"	—
w5(E)	20	#5	41'-9"	—
w6(E)	6	#5	26'-2"	—
Structure Excavation	Cu. Yd.		191	
Concrete Structures	Cu. Yd.		95.5	
Reinforcement Bars, Epoxy Coated	Pound		8,500	
Geocomposite Wall Drain	Sq. Yd.		65	
Granular Backfill for Structures	Cu. Yd.		474	

NOTES:  
 All exposed edges shall have standard 3/4" chamfers, except as noted.  
 5x2-#5 etc. indicates five lines of bars with two lengths per line.  
 Maximum Rock Bearing Pressure = 5.74 ksf.  
 See Structural Sheet 2 of 16 for Rock Excavation quantity.  
 Footing concrete shall be poured directly against the rock, no footing formwork allowed.

FILE = S:\PROJECTS\2013\1143013\_Joliet\DESIGN\STRUCT\Drawings\1143013\_East Abutment\_Details.rvt



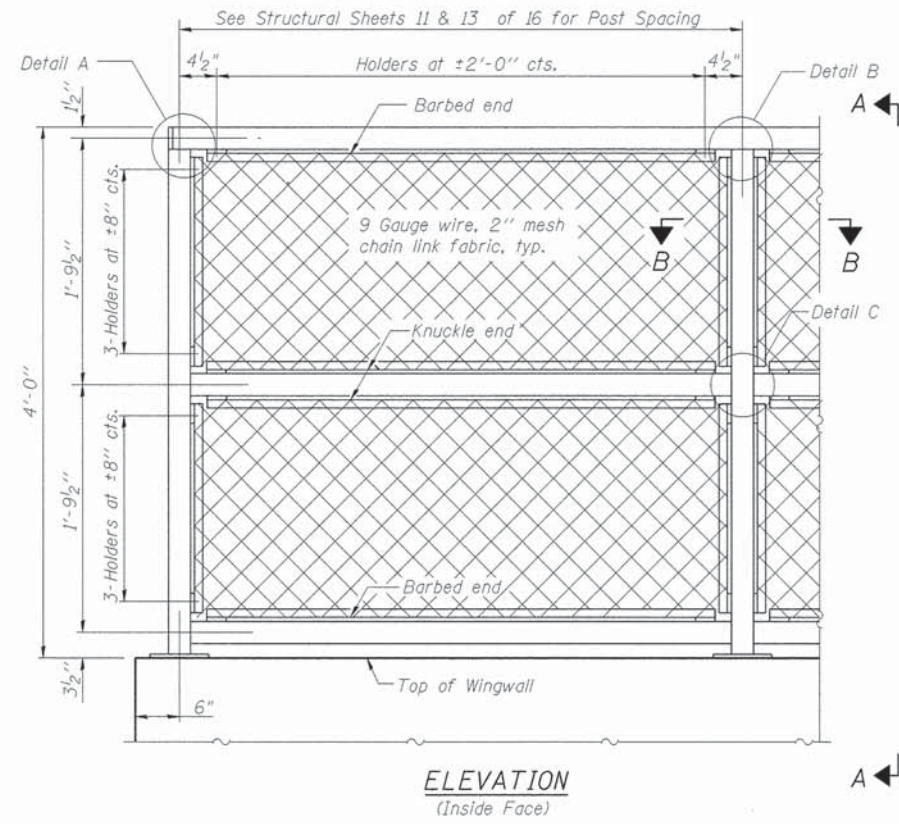
DESIGNED - BRIAN CONVERSE	REVISED -
CHECKED - MEGAN CACKLEY	REVISED -
DRAWN - FRANK LACHAT	REVISED -
CHECKED - BRIAN CONVERSE	REVISED -

CITY OF JOLIET  
 WASHINGTON STREET OVER SPRING CREEK  
 STATION 46 + 32

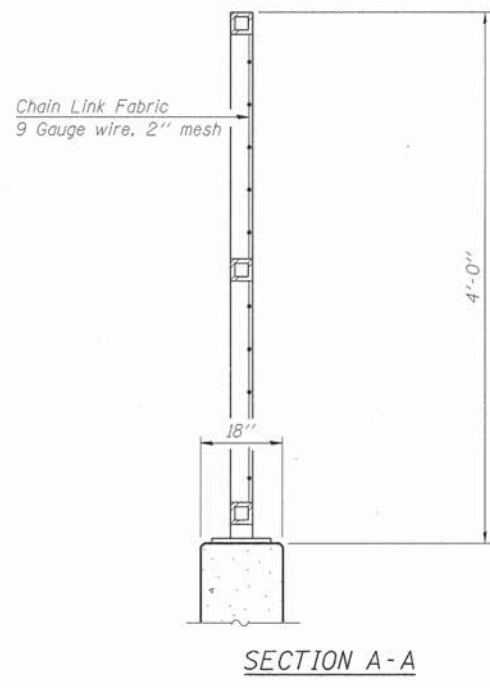
EAST ABUTMENT DETAILS  
 STRUCTURE NO. 099-6462  
 STRUCTURAL SHEET NO. 13 OF 16 SHEETS

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	09-00426-00-BR	WILL	35	28
WHA*1143013			CONTRACT NO. 61A48	
ILLINOIS FED. AID PROJECT BRM-90035311				

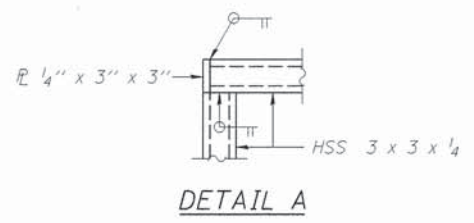




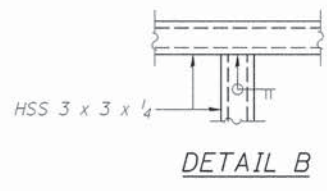
**ELEVATION**  
(Inside Face)



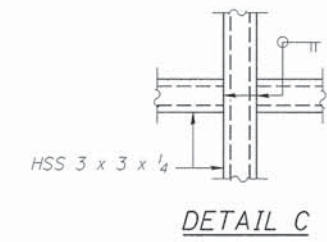
**SECTION A-A**



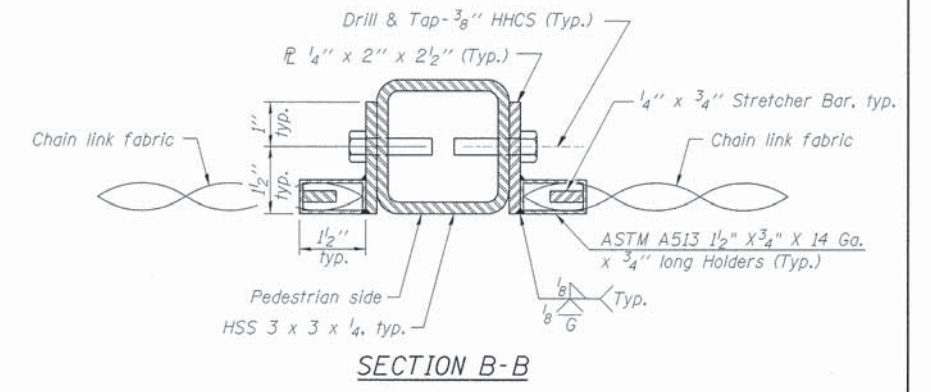
**DETAIL A**



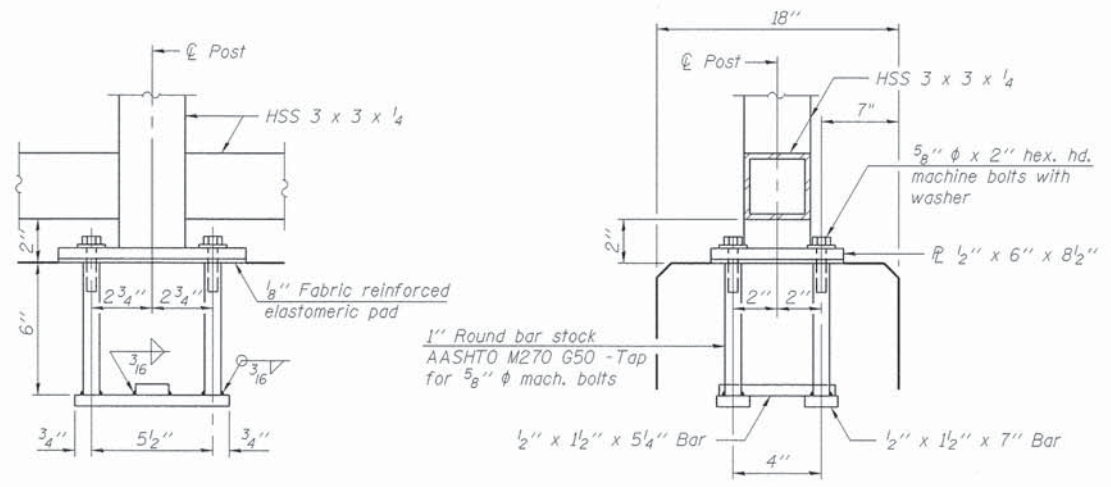
**DETAIL B**



**DETAIL C**

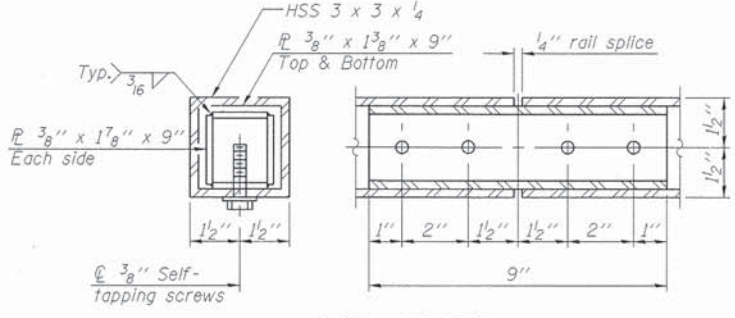


**SECTION B-B**

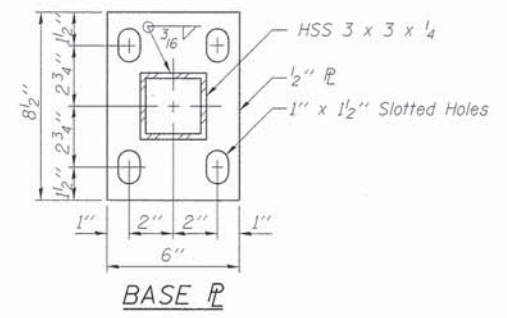


**ANCHOR BOLT DETAILS**

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



**RAIL SPLICE**

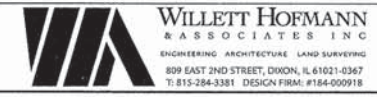


**BASE PL**

**NOTES**  
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.  
Space reinforcement to miss anchor rods.

**BILL OF MATERIAL**

Item	Unit	Quantity
Bridge Fence Railing	Foot	36



DESIGNED - BRIAN CONVERSE	REVISED -
CHECKED - MEGAN CACKLEY	REVISED -
DRAWN - FRANK LACHAT	REVISED -
CHECKED - BRIAN CONVERSE	REVISED -

**CITY OF JOLIET**  
**WASHINGTON STREET OVER SPRING CREEK**  
**STATION 46 + 32**

**BRIDGE FENCE RAILING**  
**STRUCTURE NO. 099-6462**

STRUCTURAL SHEET NO. 15 OF 16 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	09-00426-00-BR	WILL	35	30
WHA*1143013			CONTRACT NO. 61A48	
[ILLINOIS] FED. AID PROJECT BRM-9003(5)31				

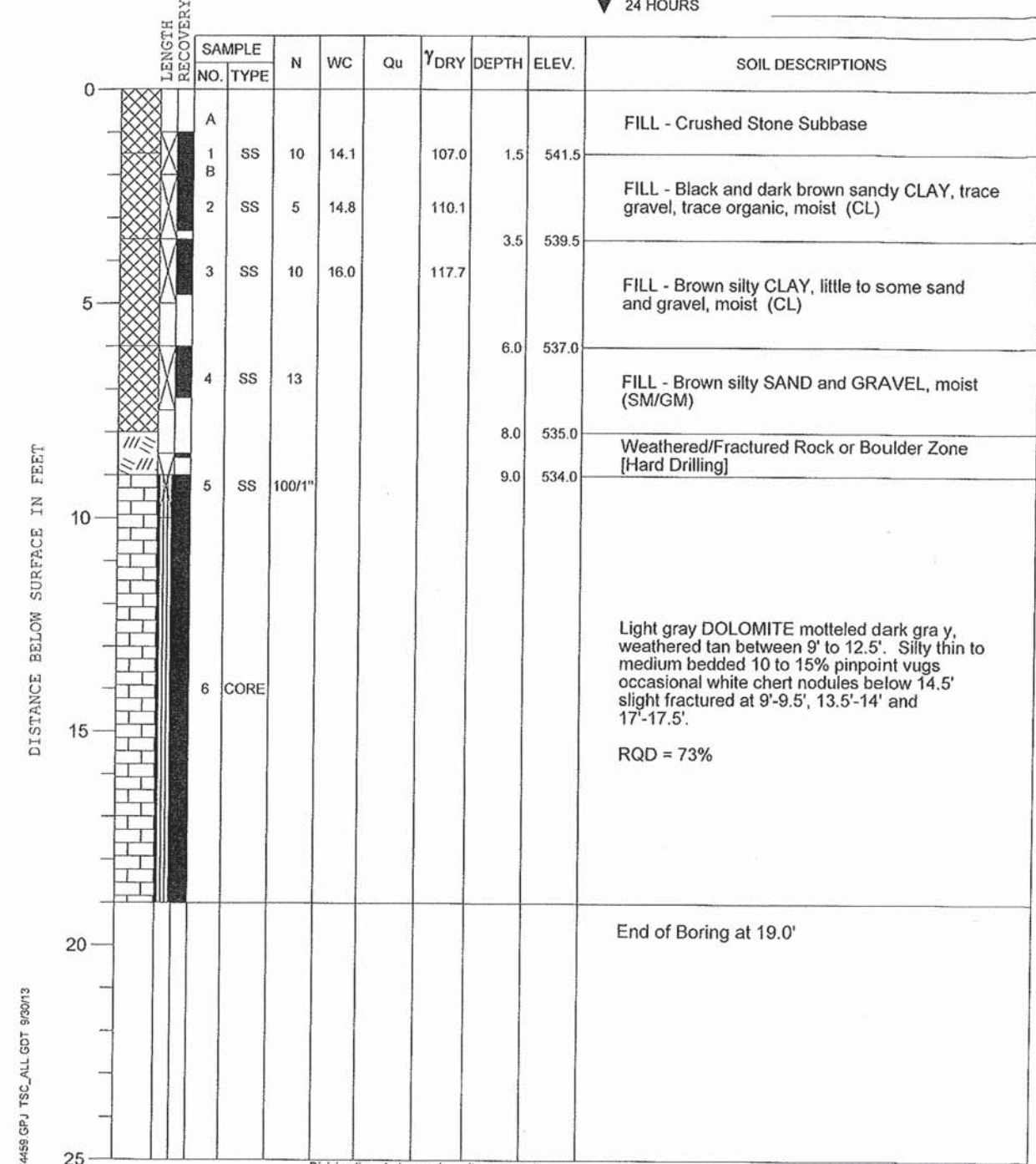
FILE: S:\PROJECTS\2013\1143013\Job\1\DESIGN\STRUCT\0-awmp\1143013\_Fence Detail.dgn

PROJECT Washington Street Bridge Over Spring Creek  
 CLIENT Willett, Hofmann and Associates  
 BORING 1 DATE STARTED 8-15-11 DATE COMPLETED 8-15-11 JOB L-74,459



ELEVATIONS  
 GROUND SURFACE 543.0  
 END OF BORING 524.0

WATER LEVEL OBSERVATIONS  
 WHILE DRILLING Rotry Wash  
 AT END OF BORING Dry  
 24 HOURS



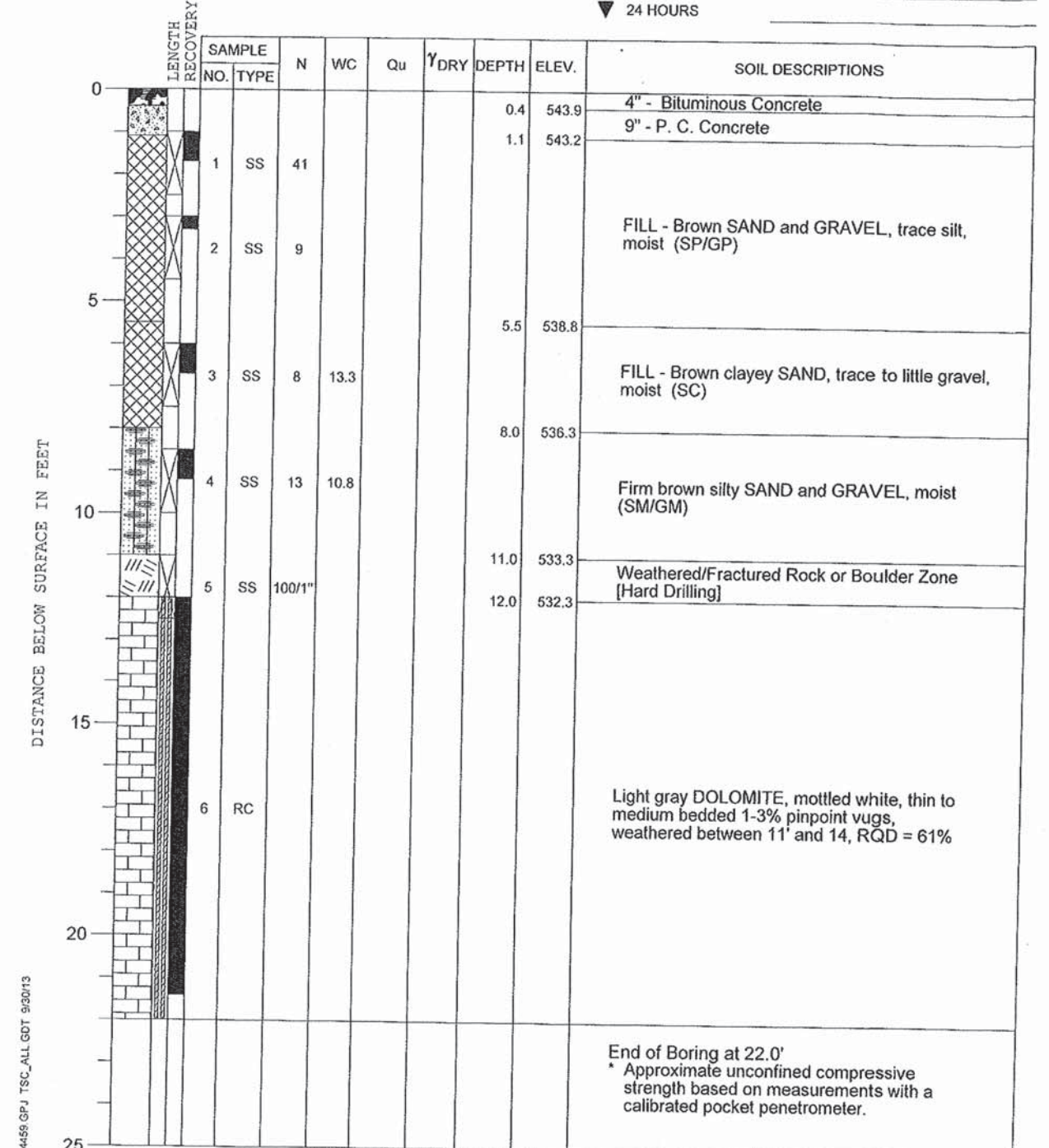
DRILL RIG NO. 315  
 Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.

PROJECT Washington Street Bridge Over Spring Creek  
 CLIENT Willett, Hofmann and Associates  
 BORING 2 DATE STARTED 11-20-09 DATE COMPLETED 11-20-09 JOB L-74,459



ELEVATIONS  
 GROUND SURFACE 544.3  
 END OF BORING 522.3

WATER LEVEL OBSERVATIONS  
 WHILE DRILLING  
 AT END OF BORING  
 24 HOURS



DRILL RIG NO. 334  
 Division lines between deposits represent approximate boundaries between soil types; in-situ, the transition may be gradual.  
 \* Approximate unconfined compressive strength based on measurements with a calibrated pocket penetrometer.

FILE: S:\PROJECTS\2011\H2013-Joliet\DESIGN\STRUCT\Drawings\1143013\_Boring\_Log.dwg

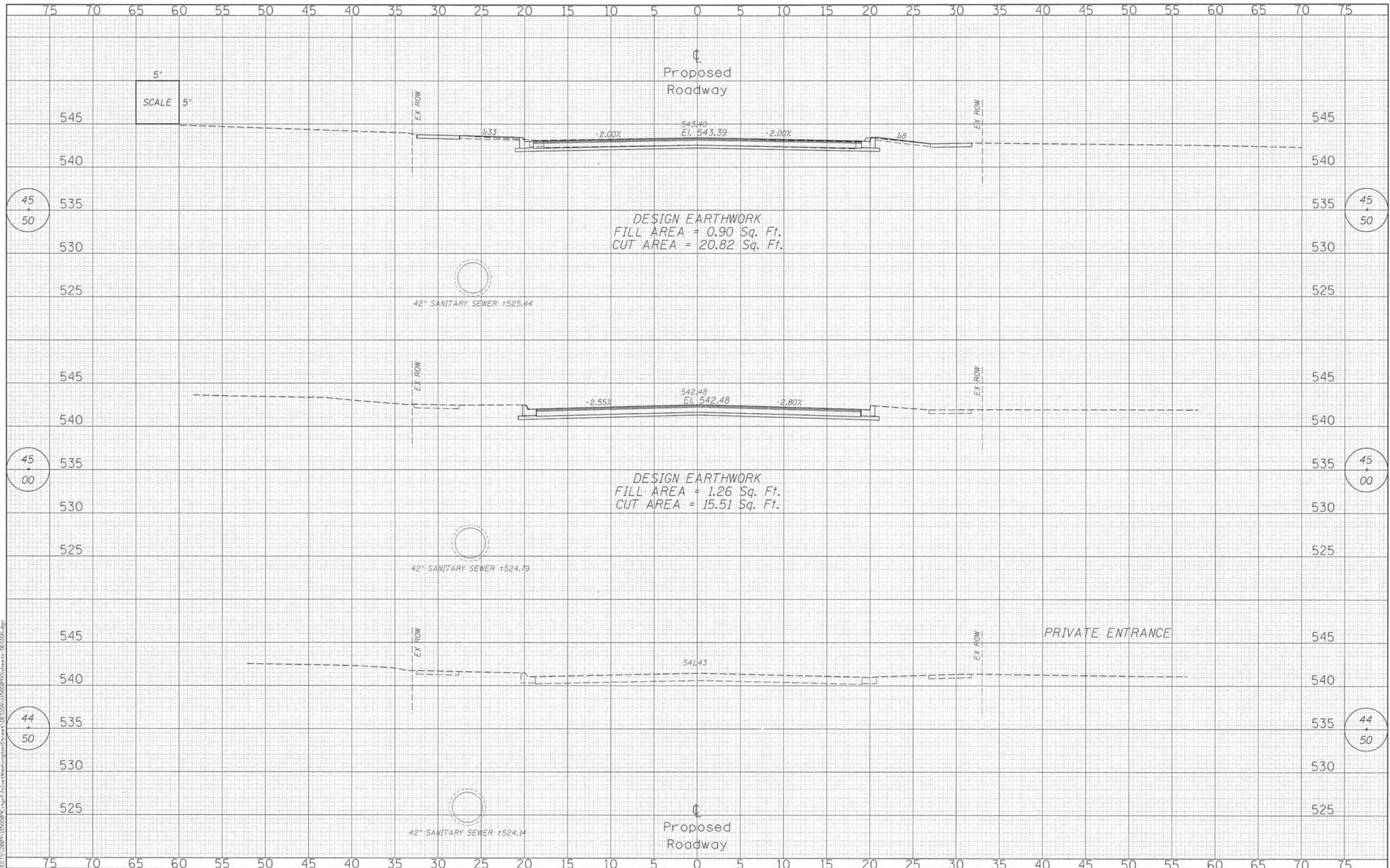


DESIGNED - BRIAN CONVERSE	REVISED -
CHECKED - MEGAN CACKLEY	REVISED -
DRAWN - FRANK LACHAT	REVISED -
CHECKED - BRIAN CONVERSE	REVISED -

CITY OF JOLIET  
 WASHINGTON STREET OVER SPRING CREEK  
 STATION 46 + 32

BORING LOGS  
 STRUCTURE NO. 099-6462  
 STRUCTURAL SHEET NO. 16 OF 16 SHEETS

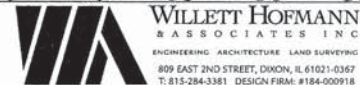
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	09-00426-00-BR	WILL	35	31
WHA#1143013		CONTRACT NO. 61A48		
ILLINOIS FED. AID PROJECT BRM-9003(531)				



DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	

FILE = S:\PROJECTS\2009\11560R\11560R.dwg



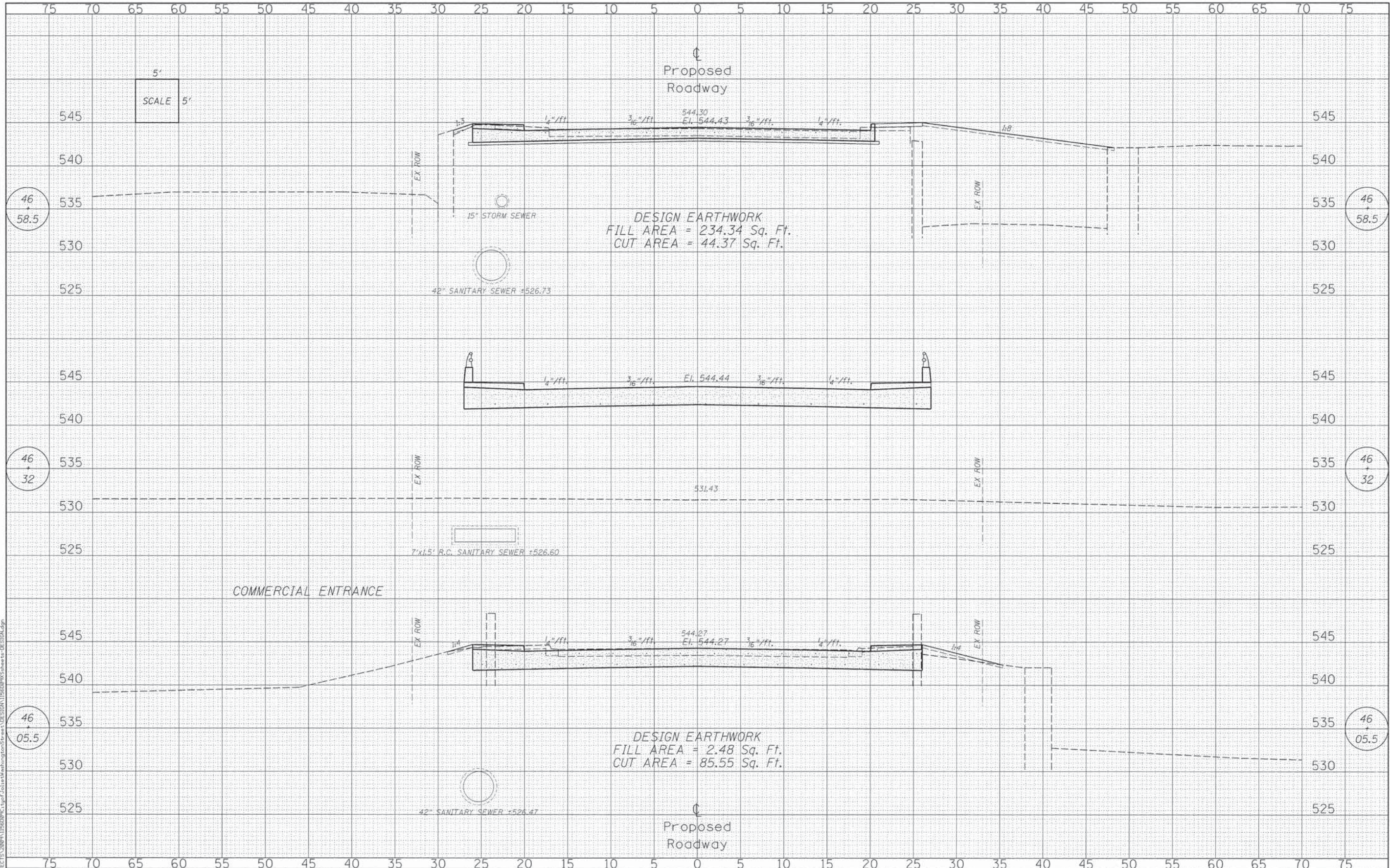
DESIGNED - M.A.H.	REVISED -
CHECKED - G.F.S.	REVISED -
DRAWN - M.A.H.	REVISED -
CHECKED - G.F.S.	REVISED -

CITY OF JOLIET  
WASHINGTON STREET OVER SPRING CREEK  
STATION 46 + 32

CROSS SECTIONS  
STRUCTURE NO. 099-6462  
SCALE: 1"=5'  
SHEET NO. 1 OF 4 SHEETS  
STA. 44+50.00 TO STA. 45+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	09-00426-00-BR	WILL	35	32
WHA* 1143013		CONTRACT NO. 61A48		
[ILLINOIS] FED. AID PROJECT BRM-900353D				





DESIGN EARTHWORK  
 FILL AREA = 234.34 Sq. Ft.  
 CUT AREA = 44.37 Sq. Ft.

DESIGN EARTHWORK  
 FILL AREA = 2.48 Sq. Ft.  
 CUT AREA = 85.55 Sq. Ft.

COMMERCIAL ENTRANCE

DATE	
BY	
FINAL SURVEY	
NOTE BOOK NO.	
DESIGNED	
CHECKED	
DRAWN	
REVISIONS	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK NO.	
DESIGNED	
CHECKED	
DRAWN	
REVISIONS	

FILE: S:\PROJECTS\2009\115602\PC\115602\PC.dwg

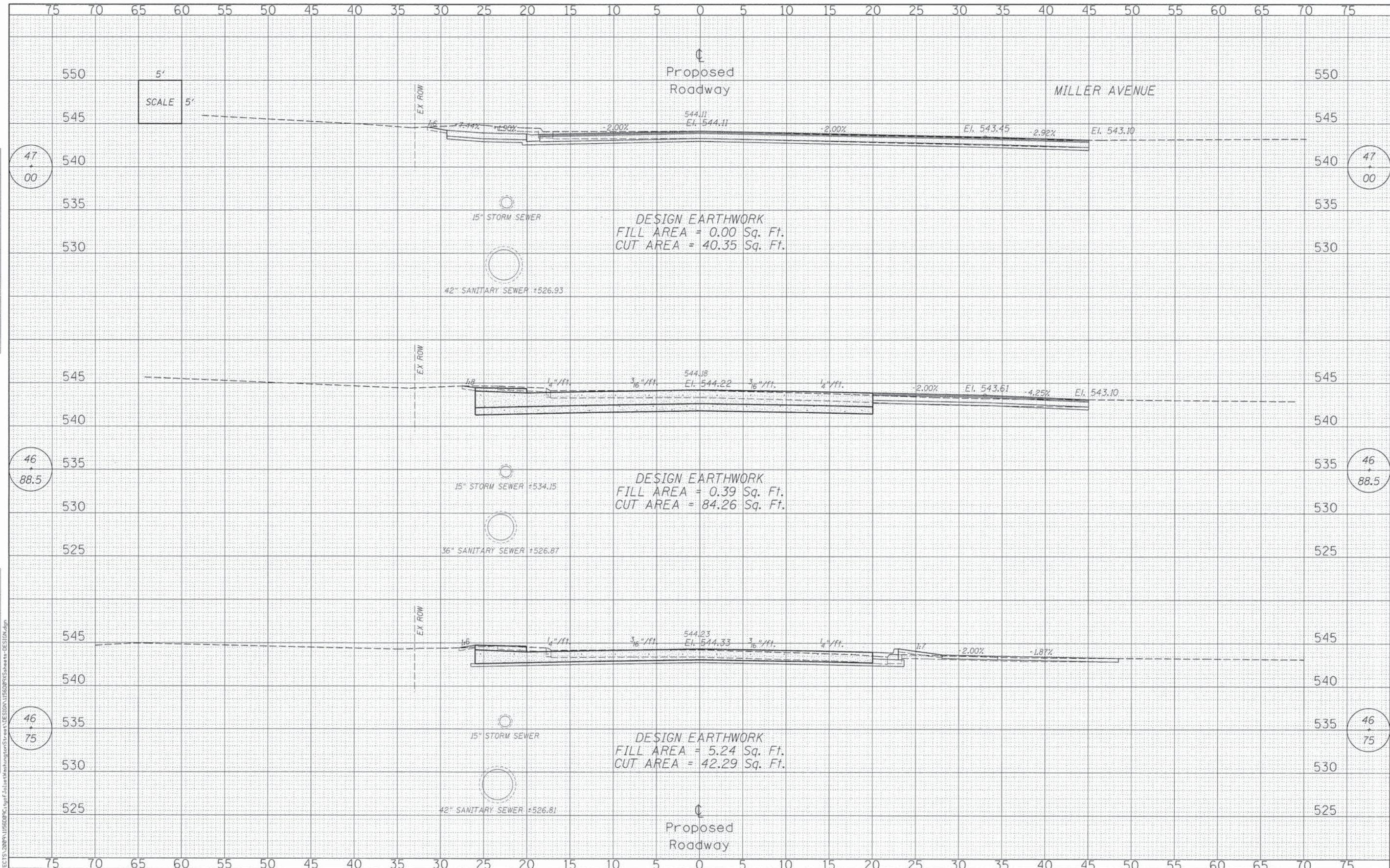


DESIGNED - M.A.H.	REVISED -
CHECKED - G.F.S.	REVISED -
DRAWN - M.A.H.	REVISED -
CHECKED - G.F.S.	REVISED -

**CITY OF JOLIET**  
**WASHINGTON STREET OVER SPRING CREEK**  
**STATION 46 + 32**

**CROSS SECTIONS**  
**STRUCTURE NO. 099-6462**  
 SCALE: 1"=5' SHEET NO. 1 OF 4 SHEETS STA. 46+05.40 TO STA. 46+58.60

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	09-00426-00-BR	WILL	35	33
WHA* 1143D13		CONTRACT NO. 61A48		
ILLINOIS FED. AID PROJECT BRN-90031531				



DATE	
BY	
FINAL SURVEY NOTE BOOK NO.	
SURVEYED	
TEMPLATE	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY NOTE BOOK NO.	
SURVEYED	
TEMPLATE	
AREAS CHECKED	

FILE: S:\PROJECTS\2009\115600PC.dwg Plotter:whh1143013.ctb User:WJH Date:11/15/2009 10:58:11 AM

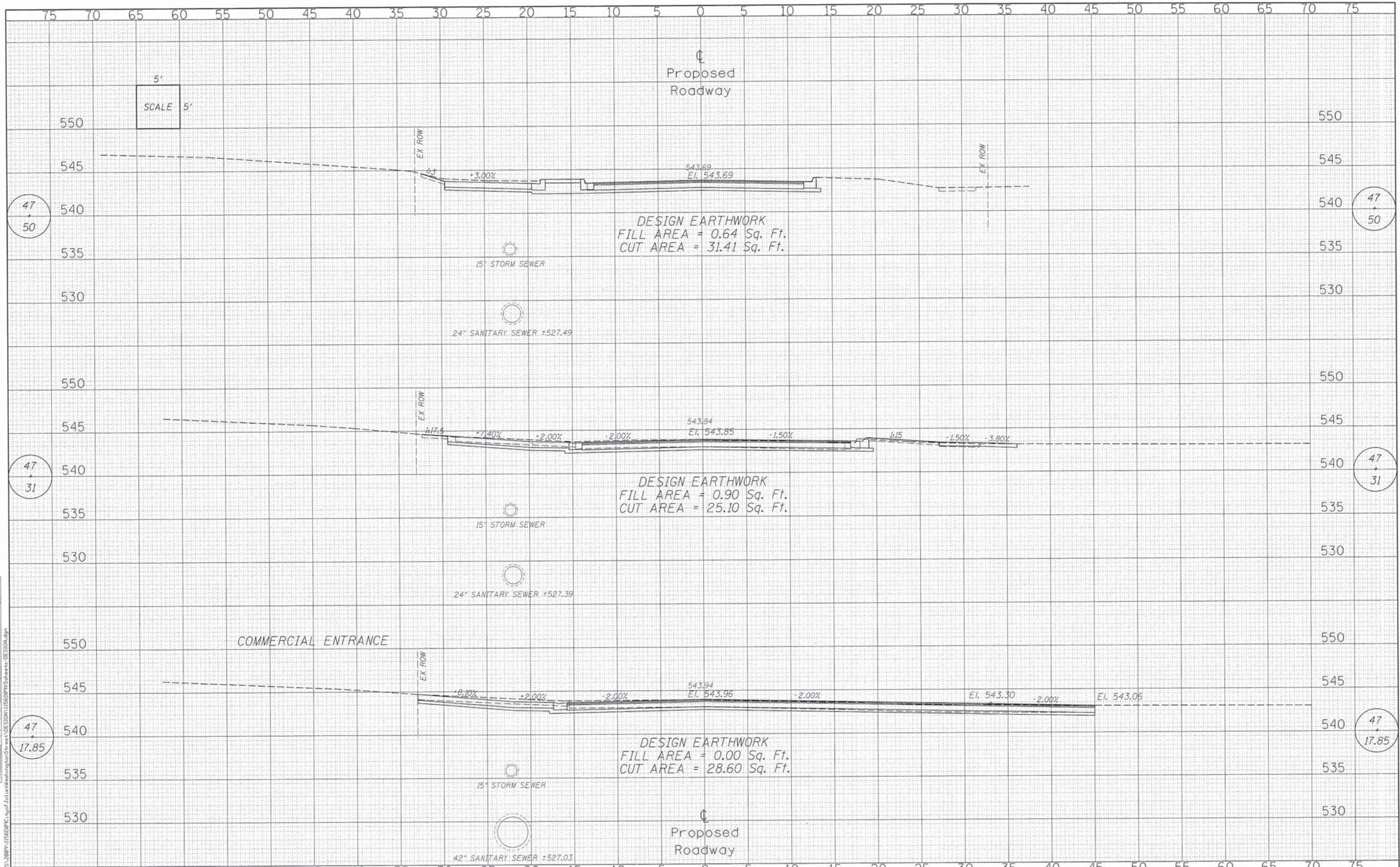
**WILLET HOFMANN & ASSOCIATES INC.**  
 ENGINEERING ARCHITECTURE LAND SURVEYING  
 809 EAST 2ND STREET, DIXON, IL 61021-0367  
 T: 815-284-3381 DESIGN FIRM: #184-00918

DESIGNED - M.A.H.	REVISED -
CHECKED - G.F.S.	REVISED -
DRAWN - M.A.H.	REVISED -
CHECKED - G.F.S.	REVISED -

**CITY OF JOLIET**  
**WASHINGTON STREET OVER SPRING CREEK**  
**STATION 46+32**

**CROSS SECTIONS**  
**STRUCTURE NO. 099-6462**  
 SCALE: 1"=5' SHEET NO. 1 OF 4 SHEETS STA. 46+75.00 TO STA. 47+00.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	09-00426-00-BR	WILL	35	34
WHA# 1143013		CONTRACT NO. 61A48		
ILLINOIS FED. AID PROJECT BRM-90034531				



DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	

FILE: S:\PROJECTS\2009\1156\DWG\Topo\Joliet\WashingtonStreet\Subarea-DESIGN.dgn



DESIGNED -	M.A.H.	REVISED -	
CHECKED -	G.F.S.	REVISED -	
DRAWN -	M.A.H.	REVISED -	
CHECKED -	G.F.S.	REVISED -	

**CITY OF JOLIET**  
**WASHINGTON STREET OVER SPRING CREEK**  
**STATION 46 + 32**

**CROSS SECTIONS**  
**STRUCTURE NO. 099-6462**  
 SCALE: 1"=5'    SHEET NO. 1 OF 4 SHEETS    STA. 47+17.85 TO STA. 47+50.00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
307	09-00426-00-BR	WILL	35	35
WHA# 1143013		CONTRACT NO. 61A48		
ILLINOIS FED. AID PROJECT BRM-900315311				