

INDEX OF SHEETS

- 1 COVER SHEET, INDEX OF SHEETS & STANDARDS
- 2 GENERAL NOTES, PAVEMENT DESIGN, STATUS OF UTILITIES, HMA MIXTURE REQUIREMENTS, SUMMARY OF BENCHMARKS
- 3 SUMMARY OF QUANTITIES
- 4 TYPICAL CROSS SECTIONS
- 5 SCHEDULE OF QUANTITIES
- 6-9 PLAN AND PROFILE
- 10-11 STORM WATER POLLUTION PREVENTION PLAN
- 12-25 BRIDGE AND RETAINING WALL PLANS

STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 424001-08 PERPENDICULAR CURB RAMPS FOR SIDEWALKS
- 424011-02 CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
- 701001-02 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15'(4.5m) AWAY
- 701101-04 OFF-ROAD OPERATIONS, MULTILANE, 15'(4.5m) TO 24'(600mm) FROM PAVEMENT EDGE
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701427-03 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS ≤ 40 MPH
- 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701606-10 URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
- 701801-05 SIDEWALK, CORNER OR CROSSWALK CLOSURE
- 701901-04 TRAFFIC CONTROL DEVICES
- 720001-01 SIGN PANEL MOUNTING DETAILS
- 720006-04 SIGN PANEL ERECTION DETAILS
- 720011-01 METAL POSTS FOR SIGNS, MARKERS, AND DELINEATORS
- 720021-02 SIGN PANELS, EXTRUDED ALUMINUM TYPE
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 729001-01 APPLICATIONS OF TYPE 'A' AND 'B' METAL POSTS (FOR SIGNS & MARKERS)
- 780001-05 TYPICAL PAVEMENT MARKINGS

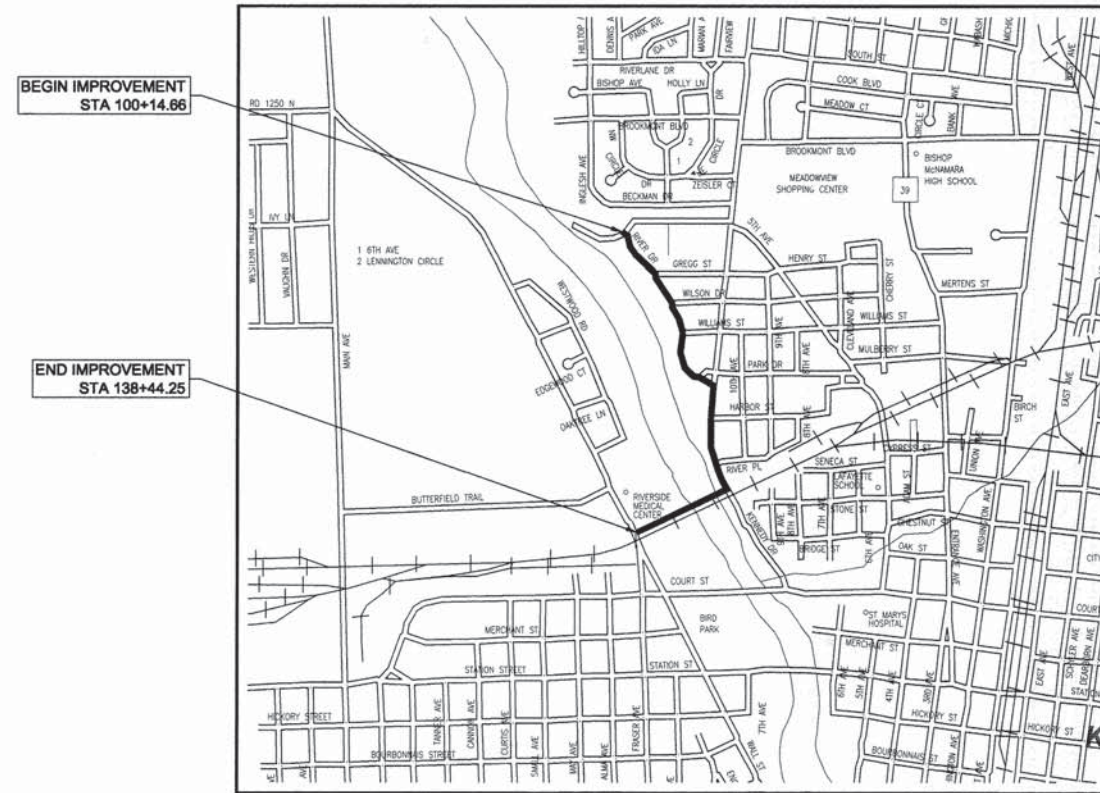
DESIGNATED BIKE ROUTE ROADS			
ROAD	AVERAGE DAILY TRAFFIC	SPEED LIMIT	DESIGN SPEED
RIVER DRIVE	150	30	30
KENNEDY DRIVE	22,600	35	35

DESIGN DESIGNATION - PATH

DESIGN SPEED = 20 MPH  
 STA. 115+54 TO STA. 138+40  
 2015 ADT = 20 PEDS 0 BIKES  
 DESIGN 2035 ADT = 50 PEDS 150 BIKES  
 SEE SHEET 2 FOR PAVEMENT DESIGN

# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS PLANS FOR PROPOSED IMPROVEMENTS TO TRAIL

ITEP FUNDING  
 CITY OF KANKAKEE  
 RIVERFRONT TRAIL PHASE 2B  
 SECTION 10-00276-01-BT  
 PROJECT NO. TE-00D3(090)  
 JOB NO. C-93-073-15  
 KANKAKEE COUNTY

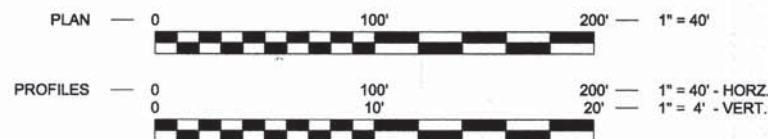


LOCATION MAP  
 NOT TO SCALE

SECTIONS 31, TOWNSHIP 31 NORTH, RANGE 12 EAST

GROSS LENGTH OF IMPROVEMENT = 3,829.59 FEET = 0.725 MILES  
 NET LENGTH OF IMPROVEMENT = 3,829.59 FEET = 0.725 MILES

STANDARD SCALES



CALL J.U.L.I.E. BEFORE YOU DIG  
 (Joint Utility Locating Information For Excavators)  
 PH.# 1-800-892-0123



PREPARED IN ACCORDANCE WITH THE  
 POLICIES OF THE LOCAL ROADS MANUAL

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

APPROVED 3-26 20 15  
*Dani Epstein*  
 MAYOR, CITY OF KANKAKEE

PASSED 4-2 20 15  
*Daniel R. E.*  
 DISTRICT 3 ENGINEER OF LOCAL ROADS AND STREETS

RELEASED FOR BID  
 BASED ON LIMITED REVIEW 4-2 20 15  
*Paul A. Loutse*  
 DEPUTY DIRECTOR OF HIGHWAYS, REGION 2 ENGINEER



3-26-15  
 STEVEN R. MCBURNEY P.E.# 062-058252 DATE  
 EXPIRATION DATE OF P.E. LICENSE: 11-30-15

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

REVISIONS				
NO.	DATE	BY	GENERAL DESCRIPTION	SHEETS CHANGED
1	03/21/15	CDB	PER IDOT REVIEW	ALL

FAU. NO. N/A SECTION KANKAKEE COUNTY TOTAL SHEETS 25 SHEET NO. 1  
 CONTRACT NO. 87623  
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT \*10-00276-01-BT  
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**Tyson ENGINEERING**  
 367 South Schuyler Avenue  
 Kankakee, Illinois 60901  
 Phone (815) 932-7406

REVISIONS				
NO.	DATE	BY	DESCRIPTION	
1	03/21/15	CDB	PER IDOT REVIEW	

COVER SHEET

PROPOSED IMPROVEMENTS FOR  
**RIVERFRONT TRAIL  
 PHASE 2B**  
 KANKAKEE, ILLINOIS

SECTION 10-00276-01-BT	
DATE: 02/16/2015	JOB NO. E10054
SCALE: N/A	FILE NO.
DRAWN BY: MRG	SHEET 1
CHECKED BY: SRM	OF 25

**GENERAL NOTES**

THE WORK UNDER THIS CONTRACT CONSISTS OF THE FOLLOWING:

- DATUM USED FOR SURVEY IS U.S.G.S.
- ALL STATIONING IS ALONG CENTERLINE OF PATH, EXCEPT AS OTHERWISE NOTED.
- NO MULTI-UNIT VEHICLES SHALL BE USED ON OR ALONG THE PATH.
- THE THICKNESS OF BITUMINOUS MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATION FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
- EXCEPT AS NOTED IN THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
- THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS BITUMINOUS MIXTURES.
- ONLY THOSE TREES DESIGNATED BY THE ENGINEER OR LISTED IN THE TREE REMOVAL SCHEDULE SHALL BE REMOVED. THE CONTRACTOR WILL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.
- ALL SAWCUTTING OF EXISTING PAVEMENT SHALL BE INCLUDED IN THE COST OF PORTLAND CEMENT CONCRETE SIDEWALK CONSTRUCTION AND NO COMPENSATION WILL BE ALLOWED. THE MINIMUM SAW CUT DEPTH IN THE PAVEMENT SHALL BE 2 INCHES, UNLESS OTHERWISE SPECIFIED IN A DETAIL IN THE PLANS.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY DRAINAGE.
- ALL REQUIRED SAW CUTTING SHALL BE INCLUDED IN THE COST OF COMBINATION CURB AND GUTTER REMOVAL, SIDEWALK REMOVAL, AND DRIVEWAY PAVEMENT REMOVAL PAY ITEMS INVOLVED AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- FOR NEW CONSTRUCTION, PLACE SIDEWALK RAMPS FOR THE HANDICAPPED IN ACCORDANCE WITH APPLICABLE HIGHWAY STANDARD AT ALL LOCATIONS WHERE PROPOSED SIDEWALK ABUTS CURB AT STREET ENTRANCES.
- THE EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION SHALL BE REMOVED OR RELOCATED AS DIRECTED BY THE ENGINEER. AFTER THE CONSTRUCTION IS COMPLETED, THE CONTRACTOR SHALL REPLACE THE SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION AND NO COMPENSATION WILL BE ALLOWED.
- ABANDONED UNDERGROUND UTILITY ITEMS WHICH CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUB-NUMBER LISTED IN THE INDEX OF SHEETS, OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE JULIE NUMBER IS 1-800-892-0123. A MINIMUM OF FORTY EIGHT (48) HOURS ADVANCE NOTICE IS REQUIRED.
- ALL WATER MAINS SHALL BE PROTECTED FROM CONTAMINATION. STATE CODE SECTION 653.119 EXPLAINS THE METHODS OF PROTECTION AND WHEN THEY ARE REQUIRED.
- THERMOPLASTIC PAVEMENT MARKINGS AND PAINT STRIPING QUANTITIES ARE APPROXIMATE ONLY. PAYMENT WILL BE MADE FOR ACTUAL QUANTITIES USED AS MEASURED IN THE FIELD.
- THE FOLLOWING UTILITY COMPANIES HAVE UTILITIES WITHIN THE LIMITS OF CONSTRUCTION. ADJUSTMENT OF UTILITY LOCATIONS WILL BE MADE BY THE OWNER, UNLESS OTHERWISE NOTED ON THE PLANS.

SUMMARY OF BENCHMARKS							
BENCHMARK NUMBER	DESCRIPTION	STATION	OFFSET	NORTHING	EASTING	ELEV.	TEI POINT NUMBER
BM#1	CUT 'X' IN W. RR ABUTMENT ON W. SIDE OF THE KANKAKEE RIVER ALONG NORFOLK SOUTHERN RR	132+13.21	99.97' LT	12468.853	1564.969	601.071	4643
BM#2	CUT 'X' IN SIDEWALK ALONG E. SIDE OF KENNEDY DR. (IL RTE 45)	122+44.37	95.42' LT	13286.747	1888.061	612.719	73
BM#3	CUT 'X' IN TOP OF CURB ON S.E. CORNER OF RIVER DR. AND WILSON DR.	104+47.56	22.74' LT	14954.712	1533.351	626.040	77
BM#4	CUT 'X' ON TOP OF CURB ON W. SIDE OF RIVER DR. AT GREGG ST.	100+51.96	18.25' RT	15292.756	1309.162	627.612	78
BM#5	CUT 'X' IN SIDEWALK ALONG E. SIDE OF WALL ST. (IL RTE 113)	139+76.47	142.03' LT	12162.583	1025.886	613.942	4935
BM#6	CUT 'X' IN SIDEWALK ALONG E. SIDE OF WALL ST. (IL RTE 113)	138+39.04	14.79' LT	12279.545	975.082	612.431	5136
BM#7	IRON ROD IN LAWN AREA BETWEEN EX. BITUMINOUS PATH AND EX. FLARED END SECTION	132+59.16	12.73' LT	12528.868	1495.546	600.970	10084
BM#8	'PK' NAIL IN PAVEMENT IN SOUTH EDGE OF RIVERSIDE PARKING LOT	135+16.95	5.19' LT	12411.810	1269.545	608.699	5244
BM#9	'PK' NAIL IN PAVEMENT NEAR S.W. CORNER OF TANK FARM	133+80.13	37.09' RT	12494.350	1383.530	607.608	5278
BM#10	IRON ROD IN LAWN AREA IN NORFOLK SOUTHERN RIGHT-OF-WAY, W. SIDE OF KANKAKEE RIVER	132+07.77	70.18' LT	12498.443	1558.524	598.502	42
BM#11	IRON ROD IN LAWN AREA ON W. SIDE OF KENNEDY DR. N. OF NORFOLK SOUTHERN BRIDGE	128+25.21	60.21' LT	12863.544	1921.480	601.706	68
BM#12	'PK' NAIL IN RIVER BANK ON W. SIDE OF KANKAKEE RIVER	131+87.42	16.89' LT	12555.462	1556.793	595.555	4655

UTILITY	STATUS OF RELOCATION	
	DATE	
<b>POWER</b> COMMONWEALTH EDISON CO. 2500 SOUTH GOVERNORS HIGHWAY UNIVERSITY PARK, IL 60466	PRELIMINARY PLANS SET 4/10/12	NONE REQUIRED
	FINAL PLAN SET 2/16/15	
<b>TELEPHONE</b> AT&T 65 WEST WEBSTER JOLIET, IL 60431	PRELIMINARY PLANS SET 4/10/12	NONE REQUIRED
	FINAL PLAN SET 2/16/15	
<b>CABLE TV</b> COMCAST 17700 HOFFMAN WAY HOMEWOOD, IL 60430	PRELIMINARY PLANS SET 4/10/12	NONE REQUIRED
	FINAL PLAN SET 2/16/15	
<b>GAS</b> NORTHERN ILLINOIS GAS CO. 1844 FERRY ROAD NAPERVILLE, IL 60563	PRELIMINARY PLANS SET 4/10/12	NONE REQUIRED
	FINAL PLAN SET 2/16/15	
<b>WATER</b> AQUA ILLINOIS 1000 SOUTH SCHUYLER AVE. KANKAKEE, IL 60901	PRELIMINARY PLANS SET 4/10/12	NONE REQUIRED
	FINAL PLAN SET 2/16/15	

HMA MIXTURES REQUIREMENTS	
	HMA Surface
PG Grade	PG64-22
Design Air Voids	4.0% @ N50
Mixture Composition	IL 9.5
Friction Aggregate	Mixture C
Density Test Method	CORES

\* Material shall be compacted to 93.0 - 97.4 percent of the maximum theoretical density, except that when placed as first lift on an unimproved subgrade the minimum percent compaction shall be 92.0 percent. The maximum theoretical density shall be determined from the moving average as specified in the QC/QA Specification.

\*\* When RAP/RAS ABR exceeds 20 percent, the high and low virgin asphalt binder grades shall each be reduced by one grade (i.e. 25% ABR would require a virgin asphalt binder grade of PG64-22 to be reduced to PG58-28).

**PAVEMENT DESIGN**

**RIVERFRONT**  
STA. 115+54 to STA. 138+40

Shared use path  
D.P. - 20 years  
Design Traffic  
Existing ADT: 20/0 ped/bike  
Proposed ADT: 50/150 ped/bike  
Critical subgrade Eri: 3ksi

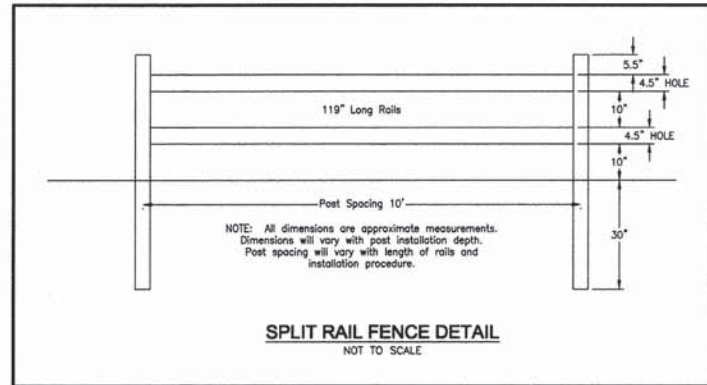
Subgrade support rating: fair  
mixture temperature: 78.5

**USE: 3" HMA, 8" AGG**

**LEGEND**

B.S.L.	BUILDING SETBACK LINE		GRADE
D.E.	DRAINAGE EASEMENT		EXIST. SWALE FLOW LINE
W.M.E.	WATER MAIN EASEMENT		TREE/BUSH
ST.S.E.	STORM SEWER EASEMENT		EXIST. STORM SEWER
SAN.S.E.	SANITARY SEWER EASEMENT		EXIST. SANITARY SEWER
S.L.E.	STREET LIGHT EASEMENT		EXIST. FENCE
P.U.E.	PUBLIC UTILITY EASEMENT		EXIST. EDGE OF PAVEMENT & SIDEWALK
□	IRON ROD RECOVERED		EXIST. CURB & GUTTER
■	IRON ROD SET		NEW SPOT ELEVATION
△	RAILROAD SPIKE RECOVERED		NEW STREET LIGHT
⊗	PK NAIL RECOVERED		NEW FIRE HYDRANT
⊕	PK NAIL SET		NEW WATER VALVE
+	CUT CROSS RECOVERED		NEW MANHOLE
+	CUT CROSS SET		NEW INLET
(100.0)	RECORDED DIMENSION		NEW FLARED END SECTION
100.00	MEASURED DIMENSION		NEW STORM SEWER
⊗	EXIST. POWER POLE		NEW SANITARY SEWER
⊕	EXIST. STREET LIGHT		NEW WATER MAIN
⊕	EXIST. LIGHT POLE		SILT FENCE
⊕	EXIST. TELEPHONE PEDESTAL		NEW EASEMENT
⊕	EXIST. GAS VALVE		NEW CURB & GUTTER
⊕	EXIST. FIRE HYDRANT		NEW CURB & GUTTER W/ INVERTED GUTTER PAN
⊕	EXIST. WATER VALVE		NEW BITUMINOUS PAVEMENT
⊕	EXIST. BUFFALO BOX		NEW CONCRETE SIDEWALK
⊕	EXIST. WATER METER		SURFACE REMOVAL
⊕	EXIST. FLARED END SECTION		DETECTABLE WARNINGS FOR CURB RAMPS ON SIDEWALKS
⊕	EXIST. INLET		REMOVE OBJECT
⊕	EXIST. MANHOLE		
⊕	EXIST. SIGN		

FAU. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.								
N/A	*	KANKAKEE	25	2								
CONTRACT NO. 87623												
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT												
*10-00276-01-BT												
<p><b>Tyson ENGINEERING</b> 367 South Schuyler Avenue Kankakee, Illinois 60901 Phone (815) 932-7406</p>												
<p><b>REVISIONS</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>03/21/15</td> <td>CDB</td> <td>PER IDOT REVIEW</td> </tr> </tbody> </table>					NO.	DATE	BY	DESCRIPTION	1	03/21/15	CDB	PER IDOT REVIEW
NO.	DATE	BY	DESCRIPTION									
1	03/21/15	CDB	PER IDOT REVIEW									
<p>GENERAL NOTES PAVEMENT DESIGN STATUS OF UTILITIES HMA MIXTURE REQUIREMENTS SUMMARY OF BENCHMARKS</p>												
<p>PROPOSED IMPROVEMENTS FOR <b>RIVERFRONT TRAIL PHASE 2B</b> KANKAKEE, ILLINOIS</p>												
<p>SECTION 10-00276-01-BT</p>												
DATE:	02/16/2015	JOB NO.:	E10054									
SCALE:	N/A	FILE NO.:										
DRAWN BY:	MRG	SHEET:	<b>2</b>									
CHECKED BY:	SRM	OF 25										



SUMMARY OF QUANTITIES				
PAY ITEM NUMBER	ITEM	TOTAL QUANTITY	UNIT	CONSTRUCTION CODE 0028
20100110	Tree Removal (6-15 Units Diameter)	92	UNIT	92
20100210	Tree Removal (Over 15 Units Diameter)	206	UNIT	206
20200100	Earth Excavation	494	CU YD	494
21101620	Top Soil Furnish and Place, 5"	2,810	SQ YD	2,810
25100630	Erosion Control Blanket	2,810	SQ YD	2,810
28000400	Perimeter Erosion Barrier	1,010	FOOT	1,010
28100107	Stone Riprap, Class A4	121	SQ YD	121
28200200	Filter Fabric	96	SQ YD	96
35101600	Aggregate Base Course, Type B 4"	1,035	SQ YD	1,035
35102000	Aggregate Base Course, Type B 8"	1,309	SQ YD	1,309
40600275	Bituminous Materials (Prime Coat)	2,945	POUND	2,945
40603310	Hot-Mix Asphalt Surface Course, Mix "C", N50	203	TON	203
42400200	Portland Cement Concrete Sidewalk 5 inch	500	SQ FT	500
42400300	Portland Cement Concrete Sidewalk 6 inch	8,820	SQ FT	8,820
42400800	Detectable Warnings	30	SQ FT	30
44000100	Pavement Removal	799	SQ YD	799
44000500	Combination Curb and Gutter Removal	81	FOOT	81
44000600	Sidewalk Removal	300	SQ FT	300
50104650	Slope Wall Removal	106	SQ YD	106
60200100	Structure Excavation	534	CU YD	534
60201101	Cofferdam (Type 1) (Location -1)	1	EACH	1
60201102	Cofferdam (Type 1) (Location -2)	1	EACH	1
60201103	Cofferdam (Type 1) (Location -3)	1	EACH	1
60300225	Concrete Structures	137	CU YD	137
60300280	Concrete Encasement	2	CU YD	2
60800205	Reinforcement Bars, Epoxy Coated	11,920	POUND	11,920
60901720	Bicycle Railing	752	FOOT	752
51100100	Slope Wall 4 inch	106	SQ YD	106
51201400	Furnishing Steel Piles HP10x42	280	FOOT	280.00
51201610	Furnishing Steel Piles HP12x63	92	FOOT	92
51202305	Driving Piles	92	FOOT	92
51203610	Test Pile Steel HP12x63	1	EACH	1
51204650	Pile Shoes	19	EACH	19
52100510	Anchor Bolts, 3/4"	32	EACH	32
54213669	Precast Reinforced Concrete Flared End Sections 24"	1	EACH	1
550A0120	Storm Sewers, Class A, Type 1 24"	48	FOOT	48
58700300	Concrete Sealer	249	SQ FT	249
59100100	Geocomposite Wall Drain	44	SQ YD	44
60255500	Manholes to be Adjusted	1	EACH	1
60266600	Valve Boxes to be Adjusted	3	EACH	3
60603800	Combination Concrete Curb and Gutter, Type B-6.12	73	FOOT	73
67100100	Mobilization	1	L SUM	1
70102620	Traffic Control and Protection, Standard 701501	1	L SUM	1
70102625	Traffic Control and Protection, Standard 701606	1	L SUM	1
70102640	Traffic Control and Protection, Standard 701801	1	L SUM	1
72000100	Sign Panel - Type 1	57.25	SQ FT	57.25
72800100	Telescoping Steel Sign Support	26.5	FOOT	26.5
72900100	Metal Post - Type A	147.5	FOOT	147.5
78001100	Paint Pavement Marking - Letters and Symbols	15.6	SQ FT	15.6
78001110	Paint Pavement Marking - Line 4"	4,074	FOOT	4,074
78001130	Paint Pavement Marking - Line 6"	128	FOOT	128
78001150	Paint Pavement Marking - Line 12"	130	FOOT	130
84400105	Relocate Existing Lighting Unit	1	EACH	1
X0300019	Remove and Reinstall Parking Blocks	29	EACH	29
X0322508	Pedestrian Truss Superstructure	5,718	SQ FT	5,718
X0323443	Precast Modular Retaining Wall	4,936	SQ FT	4,936
X0325800	Parking Lot Seal Coat	3,797	SQ YD	3,797
X0327146	Relocate Bike Rack	1	EACH	1
X5860110	Granular Backfill for Structures	70	CU YD	70
X7240205	Remove Sign Complete	2	EACH	2
X7240500	Relocate Existing Signs	22	EACH	22
XX006343	Seeding (Complete)	2,810	SQ YD	2,810
20046304	Pipe Underdrains for Structures, 4"	20	FOOT	20
20055400	Rumble Strip	200	FOOT	200
20065000	Setting Piles in Rock	14	EACH	14
20073002	Temporary Soil Retention System	73	SQ FT	73
20018900	Drill and Grout <i>Dowel Bars</i>	168	EACH	168
XX009030	Limestone Masonry	300	SQ FT	300
XX009031	Repair and Rehabilitate Limestone <i>Masonry</i>	1	L SUM	1
XX009032	Limestone Removal	30	CU YD	30
XX005033	Split Rail Fence	62	FOOT	62

\* See Special Provisions  
 Δ Specialty Item  
 Construction Code: 0028

FED. DIST. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	*	KANKAKEE	2.5	3

CONTRACT NO. 87623

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

\*10-00276-01-BT

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**Tyson ENGINEERING**  
 367 South Schuyler Avenue  
 Kankakee, Illinois 60901  
 Phone (815) 932-7406

REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	03/21/15	COB	PER IDOT REVIEW

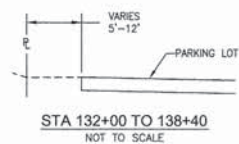
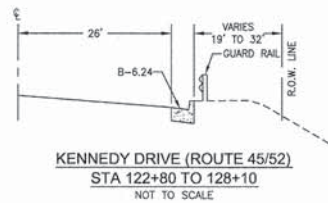
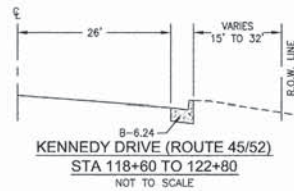
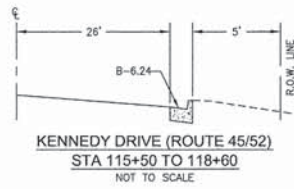
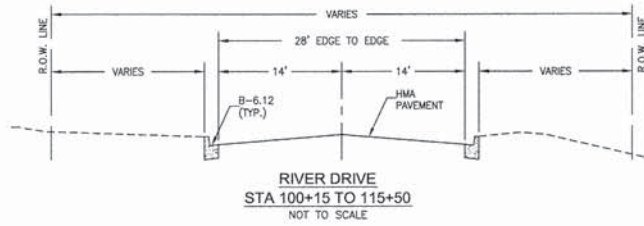
SUMMARY OF QUANTITIES

PROPOSED IMPROVEMENTS FOR  
**RIVERFRONT TRAIL  
 PHASE 2B**  
 KANKAKEE, ILLINOIS

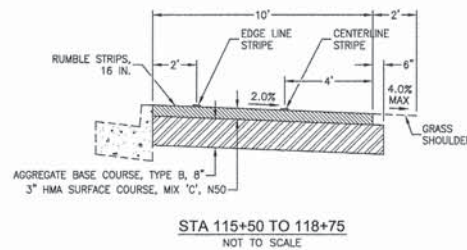
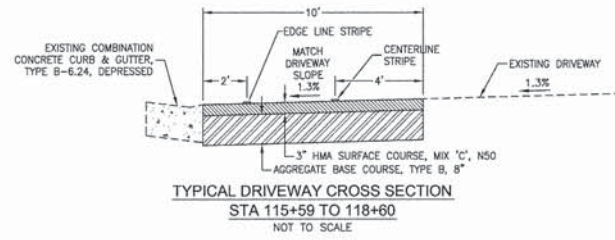
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 10-00276-01-BT

DATE:	02/16/2015	JOB NO.	E10054
SCALE:	N/A	FILE NO.	
DRAWN BY:	MRG	SHEET	3
CHECKED BY:	SRM	OF 2.5	

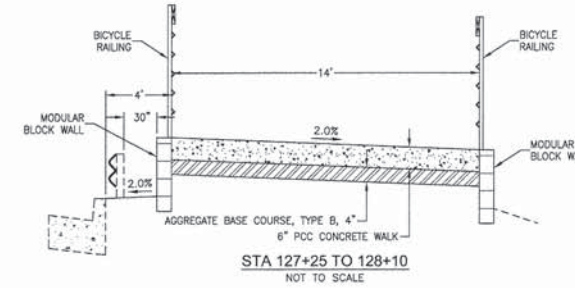
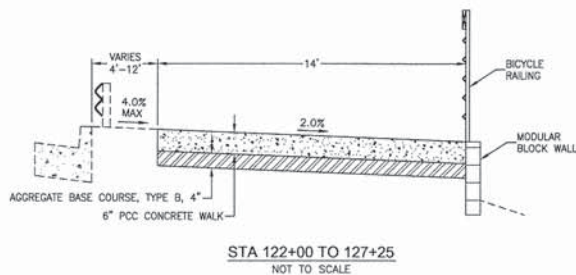
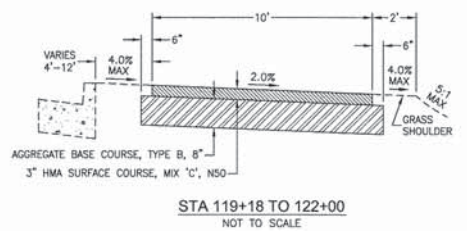
**TYPICAL EXISTING CROSS SECTIONS**



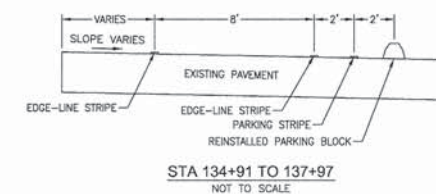
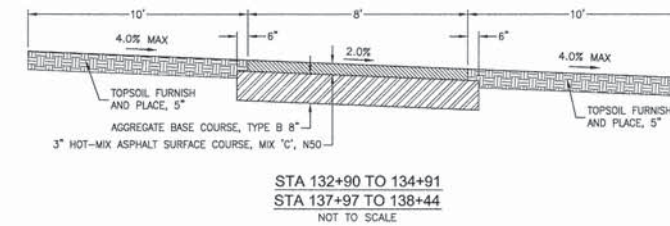
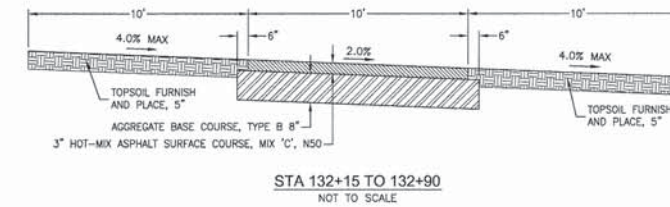
**TYPICAL PROPOSED TRAIL CROSS SECTIONS**



THE DISTANCE FROM THE BACK OF CURB TO THE TRAIL TRANSITIONS FROM 0' TO 4'.  
**STA 118+75 TO 119+18**



SEE SHEET NUMBER S-03  
**STA 128+10 TO 132+15**



F.A. NO. N/A  
SECTION \* KANKAKEE  
COUNTY \* ILLINOIS  
TOTAL SHEETS 25  
SHEET NO. 4  
CONTRACT NO. 87623  
FED. ROAD DIST. NO. ILLINOIS  
FED. AID PROJECT \*10-00276-01-BT

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**Tyson ENGINEERING**  
367 South Schuyler Avenue  
Kankakee, Illinois 60901  
Phone (815) 932-7406

**REVISIONS**

NO.	DATE	BY	DESCRIPTION
1	03/21/15	COB	PER IDOT REVIEW

TYPICAL CROSS SECTIONS

PROPOSED IMPROVEMENTS FOR  
**RIVERFRONT TRAIL**  
**PHASE 2B**  
KANKAKEE, ILLINOIS

SECTION 10-00276-01-BT

DATE: 02/16/2015	JOB NO. E10054
SCALE: N/A	FILE NO.
DRAWN BY: MRG	SHEET 4
CHECKED BY: SRM	OF 25

TREES SCHEDULE		
LOCATION	6 TO 15 UNITS DIAMETER (UNIT)	OVER 15 UNITS DIAMETER (UNIT)
STA 117+08 - 1 RT		36
STA 117+92 - 2 RT		36
STA 118+52 - 9 RT		26
STA 119+24 - 1 LT		32
STA 122+82 - 3 RT	12	
STA 122+85 - 5 RT	10	
STA 123+13 - 11 RT	14	
STA 123+30 - 12 RT	8	
STA 123+47 - 11 RT	8	
STA 123+52 - 6 RT	10	
STA 123+63 - 8 RT	14	
STA 127+58 - 4 RT	8	
STA 131+70 - 10 LT	8	
STA 132+18 - 3 RT		18
STA 132+21 - 2 RT		36
STA 132+92 - 19 RT		22
<b>TOTAL</b>	<b>92</b>	<b>206</b>

SIGNS SCHEDULE				
LOCATION	SIGN PANEL TYPE 1 (SQ FT)	METAL POST TYPE A (FOOT)	TELESCOPING STEEL SIGN SUPPORT (FOOT)	
STA 100+80 - 18 RT	3	12		BIKE ROUTE (D11-1) (24"X18")
STA 103+60 - 18 LT	3	12		BIKE ROUTE (D11-1) (24"X18")
STA 104+85 - 18 RT	3	12		BIKE ROUTE (D11-1) (24"X18")
STA 107+25 - 21 LT	3	12		BIKE ROUTE (D11-1) (24"X18")
STA 108+25 - 18 RT	3	12		BIKE ROUTE (D11-1) (24"X18")
STA 114+50 - 19 LT	3	12		BIKE ROUTE (D11-1) (24"X18")
STA 115+50 - 1 LT	6.25		13	STOP SIGN (R1-1) (30"X30")
STA 116+00 - 7 RT	6.25	12.50		STOP SIGN (R1-1) (18"X18") and DRIVEWAY CROSSING SIGN (24"X24")
STA 118+75 - 7 RT	8	12.50		NO MOTOR VEHICLES (RS-3) (24"X24") and DRIVEWAY CROSSING SIGN (24"X24")
STA 120+00 - 8 LT	7.50		13.50	35 MPH SPEED LIMIT SIGN (R2-1) (30"X36")
STA 127+05 - 7 RT	2.25	12.50		TURN RIGHT (W1-1) (18"X18")
STA 128+80 - 7 LT	2.25	12.50		TURN LEFT (W1-1) (18"X18")
STA 138+39 - 7 RT	2.25	12		STOP SIGN (R1-1) (18"X18")
STA 138+44 - 15 LT	4.50	13.50		PATH NARROWS (NS-4a) (18"X18") and LOW CLEARANCE (W12-2) (18"X18")
<b>TOTAL</b>	<b>57.25</b>	<b>147.50</b>	<b>26.50</b>	

MISCELLANEOUS SCHEDULE										
LOCATION	RELOCATE EXISTING SIGNS (EACH)	STORM SEWERS, CLASS A, TYPE 1 24" (FOOT)	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24" (EACH)	RELOCATE EXISTING LIGHTING UNIT (EACH)	REMOVE SIGN COMPLETE (EACH)	SPLIT RAIL FENCE (FOOT)	REMOVE AND REINSTALL PARKING BLOCKS (EACH)	RELOCATE BIKE RACK (EACH)	MANHOLES TO BE ADJUSTED (EACH)	VALVE BOXES TO BE ADJUSTED (EACH)
STA 115+65 - 5 LT					1					
STA 116+00 TO 116+62 - 8 RT						62				
STA 116+57 - 3 LT					1					
STA 116+82 - 8 RT				1						
STA 117+44 - 5 RT										1
STA 118+37 - 1 RT										1
STA 118+77 - 1 RT										1
STA 131+98 - 29 LT			1							
STA 131+98 TO 132+60 LT		48								
STA 133+50 - 15 RT							1			
STA 135+33 TO 137+95 RT							29			
STA 135+70 TO 137+60	22									
STA 138+08								1		
<b>TOTAL</b>	<b>22</b>	<b>48</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>62</b>	<b>29</b>	<b>1</b>	<b>1</b>	<b>3</b>

EROSION CONTROL SCHEDULE	
LOCATION	PERIMETER EROSION CONTROL BARRIER (FOOT)
STA 118+80 TO 126+90	810
STA 131+70	200
<b>TOTAL</b>	<b>1010</b>

REMOVALS SCHEDULE			
LOCATION	PAVEMENT REMOVAL (SQ YD)	COMBINATION CURB AND GUTTER REMOVAL (FOOT)	SIDEWALK REMOVAL (SQ FT)
STA 114+50 TO 115+20 LT		10	300
STA 115+54		15	
STA 115+59 TO 116+00	46		
STA 116+62 TO 16+76	16		
STA 117+11 TO 117+57	128		
STA 117+57 TO 117+65	9		
STA 117+95 TO 118+10	17		
STA 118+18 TO 118+48	33		
STA 132+00 TO 133+10	194		
STA 134+00 TO 138+44	316		
STA 137+95 TO 138+15	40	56	
<b>TOTAL</b>	<b>799</b>	<b>81</b>	<b>300</b>

PAVEMENT SCHEDULE							
LOCATION	AGGREGATE BASE COURSE, TYPE B 4" (SQ YD)	AGGREGATE BASE COURSE, TYPE B 8" (SQ YD)	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (TON)	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (FOOT)	RUMBLE STRIP (FOOT)	PARKING LOT SEAL COAT (SQ YD)	BITUMINOUS MATERIALS (PRIME COAT) (POUND)
STA 114+50 TO 115+20 LT	44			10			
STA 115+54 TO 115+59	11			15			
STA 115+59 TO 117+11		177	28				398
STA 116+00 TO 116+62					62		
STA 116+76 TO 117+11					35		
STA 117+11 TO 117+57		156	26				351
STA 117+22 TO 117+52					30		
STA 117+57 TO 118+83		135	22				304
STA 117+65 TO 117+93					28		
STA 118+10 TO 118+18					8		
STA 118+46 TO 118+83					37		
STA 118+83 TO 122+00		387	59				871
STA 122+00 TO 128+30	980						
STA 132+11 TO 132+90		96	15				216
STA 132+90 TO 134+90		200	30				450
STA 135+35 TO 137+95						3797	
STA 137+95 TO 138+15 RT				48			
STA 137+97 TO 138+44		45	7				101
RIVERSIDE PATH		113	16				254
<b>TOTAL</b>	<b>1035</b>	<b>1309</b>	<b>203</b>	<b>73</b>	<b>200</b>	<b>3797</b>	<b>2945</b>

EARTH EXCAVATION SCHEDULE	
LOCATION	EARTH EXCAVATION (CU YD)
STA 114+50 TO 115+20 LT	22
STA 115+54 TO 117+11	70
STA 117+11 TO 117+57	51
STA 117+57 TO 118+83	56
STA 118+83 TO 119+50	35
STA 119+50 TO 122+00	32
STA 122+00 TO 124+00	6
STA 124+00 TO 127+25	42
STA 133+50 TO 134+90	37
STA 137+95 TO 138+40	47
RIVERSIDE PATH	96
<b>TOTAL</b>	<b>494</b>

TURF ESTABLISHMENT SCHEDULE			
LOCATION	TOPSOIL FURNISH AND PLACE, 5" (SQ YD)	SEEDING, COMPLETE (SQ YD)	EROSION CONTROL BLANKET (SQ YD)
STA 114+50 TO 115+20 LT	92	92	92
STA 115+54 TO 115+60	3	3	3
STA 116+00 TO 116+62	14	14	14
STA 116+76 TO 117+58	18	18	18
STA 118+60 TO 118+19	2	2	2
STA 118+46 TO 118+83	8	8	8
STA 118+83 TO 122+00	458	458	458
STA 122+00 TO 123+89	252	252	252
STA 123+89 TO 126+90	201	201	201
STA 126+90 TO 128+30	87	87	87
STA 131+80 TO 135+00 LT	436	436	436
STA 132+95 TO 133+40 RT	489	489	489
STA 133+40 TO 134+90 RT	150	150	150
STA 135+00 TO 137+97 LT	297	297	297
STA 137+97 TO 138+44	100	100	100
RIVERSIDE PATH	203	203	203
<b>TOTAL</b>	<b>2810</b>	<b>2810</b>	<b>2810</b>

SIDEWALK SCHEDULE			
LOCATION	PORTLAND CEMENT CONCRETE SIDEWALK 5" (SQ FT)	PORTLAND CEMENT CONCRETE SIDEWALK 6" (SQ FT)	DETECTABLE WARNINGS (SQ FT)
STA 114+50 TO 115+20 LT	400		10
STA 115+54 TO 115+59	100		20
STA 122+00 TO 128+30		8820	
<b>TOTAL</b>	<b>500</b>	<b>8820</b>	<b>30</b>

PAVEMENT MARKING SCHEDULE					
LOCATION	PAINT PAVEMENT MARKING				
	LETTERS AND SYMBOLS (SQ FT)	LINE 4" (FOOT)	LINE 6" (FOOT)	LINE 12" (FOOT)	
STA 115+20			128	120	CROSSWALK WHITE
STA 115+58				5	STOP BAR WHITE
STA 115+59 TO 138+44	571				SKIP DASH YELLOW
STA 115+59 TO 118+83 LT	324				EDGE LINE WHITE
STA 134+91 TO 137+97 LT	306				EDGE LINE WHITE
STA 134+91 TO 137+97 RT	306				EDGE LINE WHITE
STA 138+39			5		STOP BAR WHITE
RIVERSIDE PARKING LOT	15.6	2567			LINE WHITE
<b>TOTAL</b>	<b>15.6</b>	<b>4074</b>	<b>128</b>	<b>130</b>	

F.A.D. NO. N/A SECTION \* COUNTY KANKAKEE TOTAL SHEETS 25 SHEET NO. 5

CONTRACT NO. 87623

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

\*10-00276-01-BT

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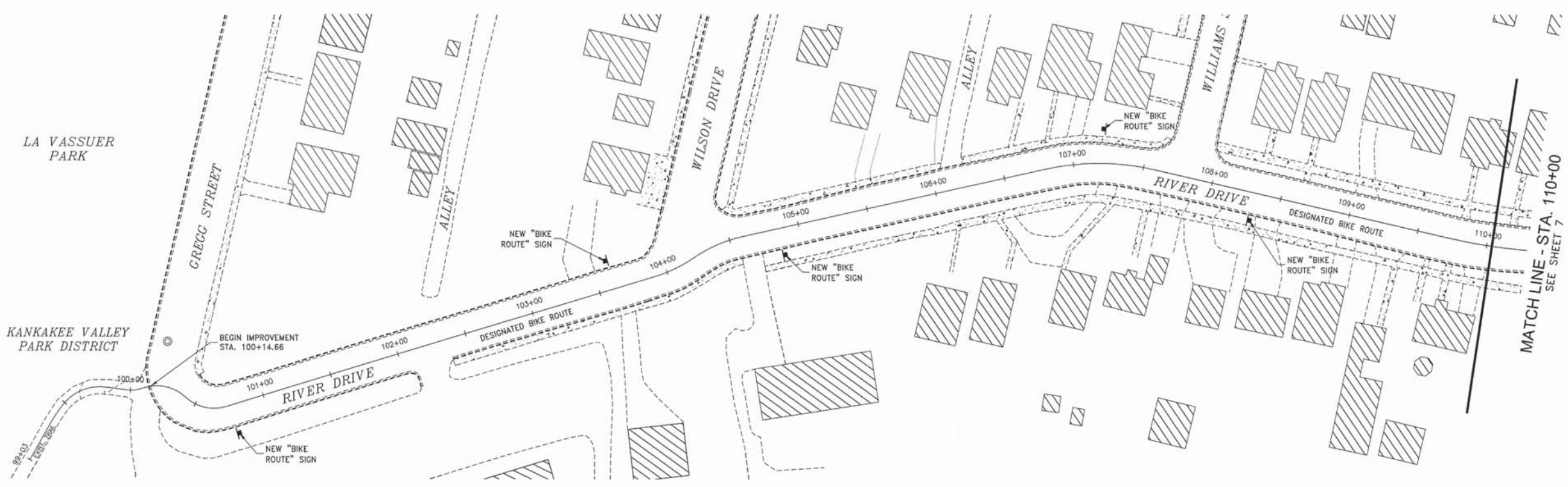
**Tyson ENGINEERING**  
367 South Schuyler Avenue  
Kankakee, Illinois 60901  
Phone (815) 932-7406

REVISIONS				
NO.	DATE	BY	DESCRIPTION	
1	03/21/15	COB	PER IDOT REVIEW	

SCHEDULE OF QUANTITIES

PROPOSED IMPROVEMENTS FOR  
**RIVERFRONT TRAIL  
PHASE 2B**  
KANKAKEE, ILLINOIS

SECTION 10-00276-01-BT	
DATE: 02/16/2015	JOB NO. E10054
SCALE: N/A	FILE NO.
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FAU. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	*	KANKAKEE	25	6

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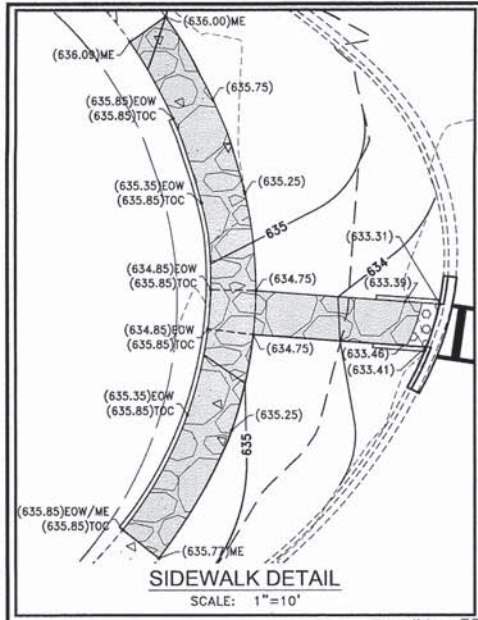
REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	03/21/15	CDB	PER IDOT REVIEW

PLAN  
 STA. 99+00 TO STA. 110+00

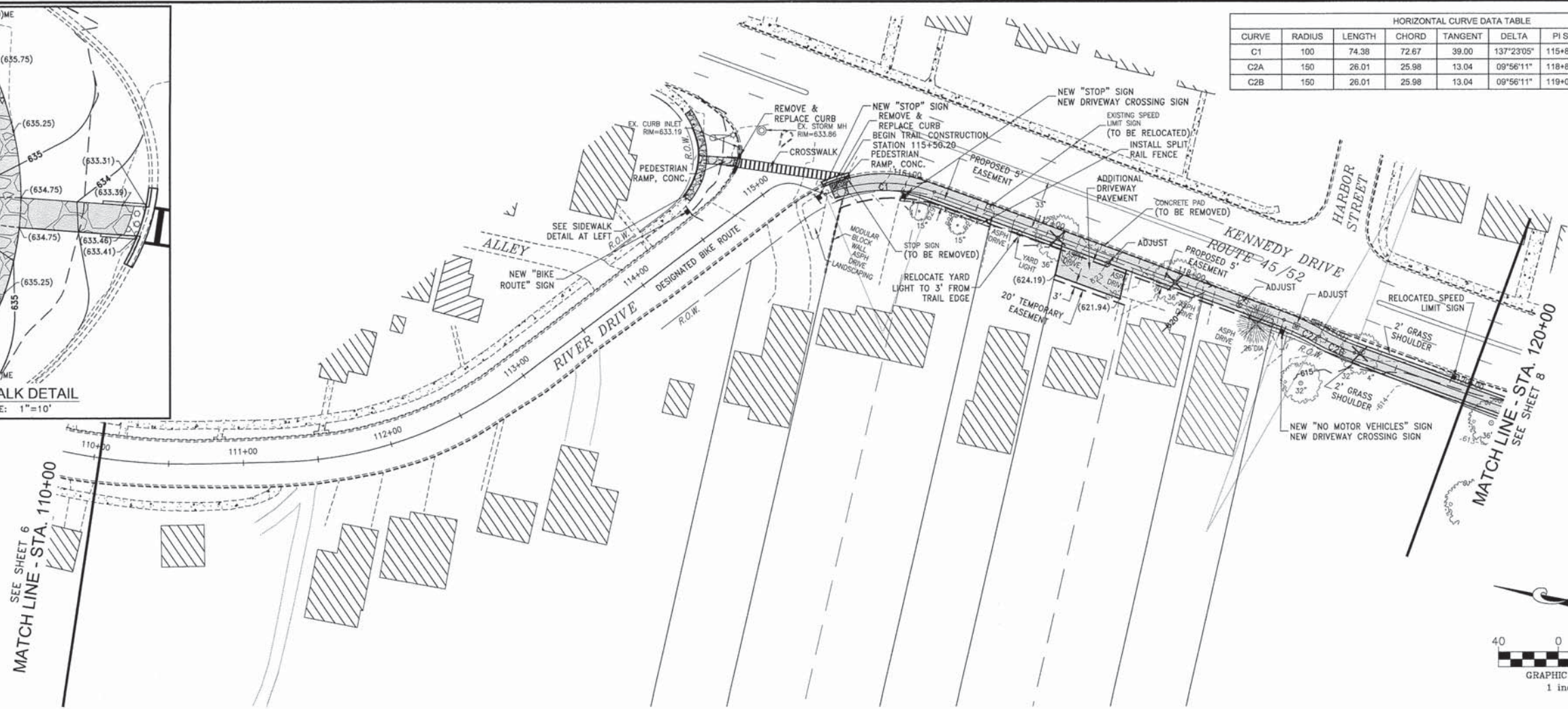
PROJECT:  
**PROPOSED IMPROVEMENTS FOR  
 RIVERFRONT TRAIL  
 PHASE 2B**  
 KANKAKEE, ILLINOIS

SECTION  
 10-00276-01-BT

DATE:	02/16/2015	JOB NO.	E10054
SCALE:	1"=40'	FILE NO.	
DRAWN BY:	MRG	SHEET	6
CHECKED BY:	SRM	OF 25	



HORIZONTAL CURVE DATA TABLE								
CURVE	RADIUS	LENGTH	CHORD	TANGENT	DELTA	PI STA	PC STA	PT STA
C1	100	74.38	72.67	39.00	137°23'05"	115+84.30	115+45.16	116+19.67
C2A	150	26.01	25.98	13.04	09°56'11"	118+81.43	118+68.39	118+94.40
C2B	150	26.01	25.98	13.04	09°56'11"	119+07.44	118+94.40	119+20.41



SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	KANKAKEE	25	7

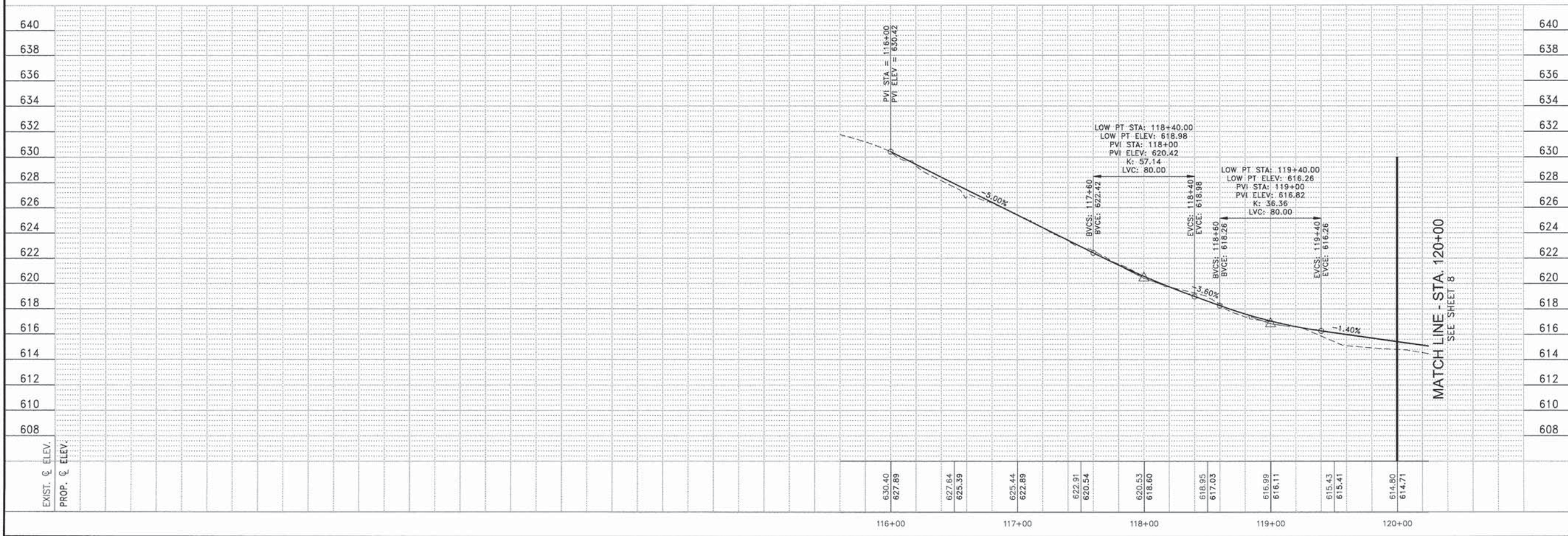
CONTRACT NO. 87623  
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1	03/24/15	COB	PER IDOT REVIEW

PLAN & PROFILE  
 STA. 110+00 TO STA. 120+00



PROJECT: **PROPOSED IMPROVEMENTS FOR RIVERFRONT TRAIL PHASE 2B KANKAKEE, ILLINOIS**

SECTION  
 10-00276-01-BT

DATE:	02/16/2015	JOB NO.:	E10054
SCALE:	HORIZ: 1"=40' VERT: 1"=4'	FILE NO.:	
DRAWN BY:	MRG	SHEET:	7
CHECKED BY:	SRM	OF 25	

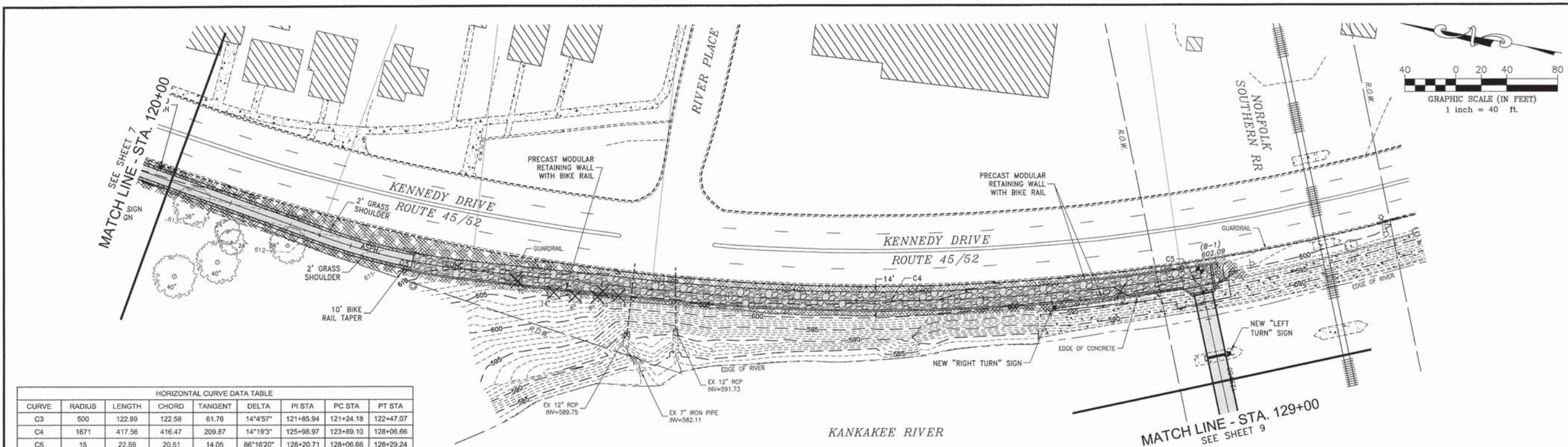
REVISIONS			
NO.	DATE	BY	DESCRIPTION
1	03/24/15	CDB	PER IDOT REVIEW

PLAN & PROFILE  
STA. 120+00 TO STA. 129+00

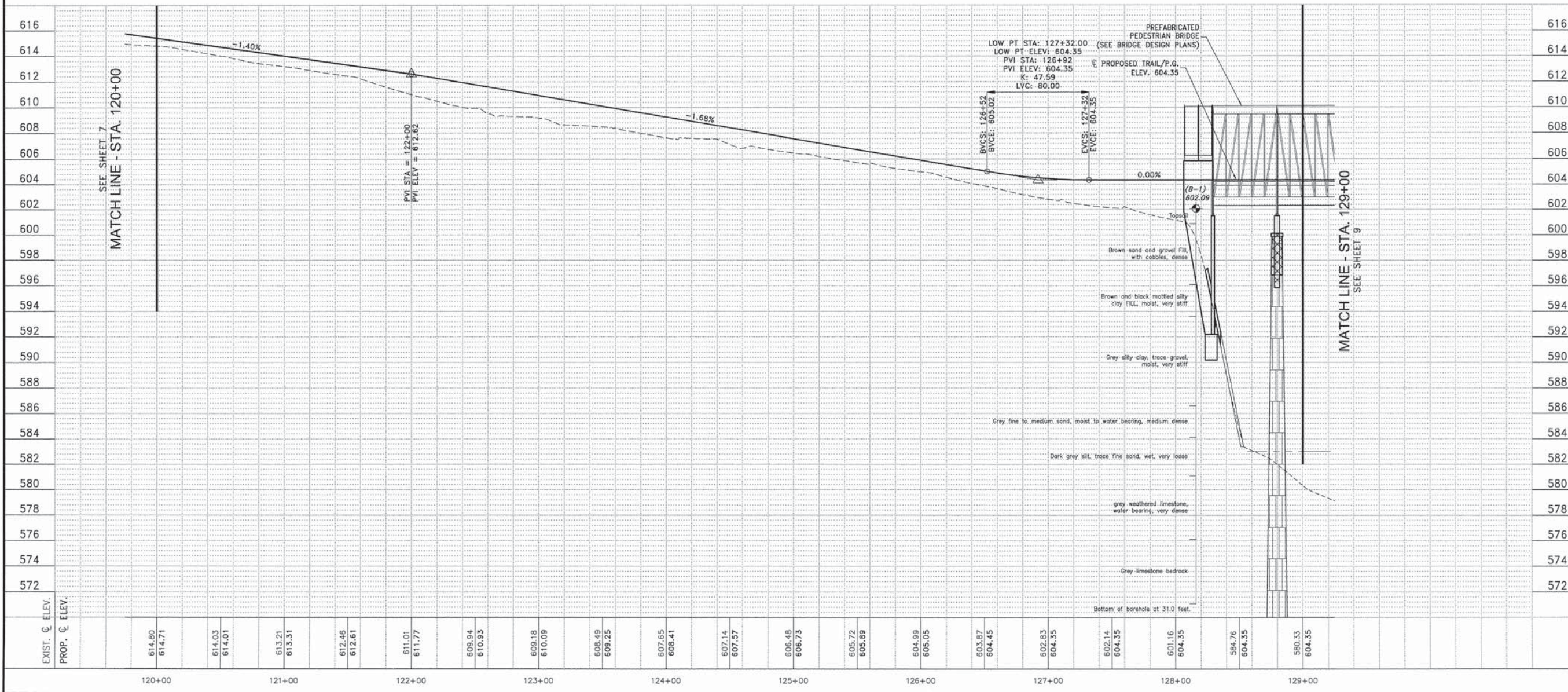
PROPOSED IMPROVEMENTS FOR  
**RIVERFRONT TRAIL  
PHASE 2B**  
KANKAKEE, ILLINOIS

SECTION  
10-00276-01-BT

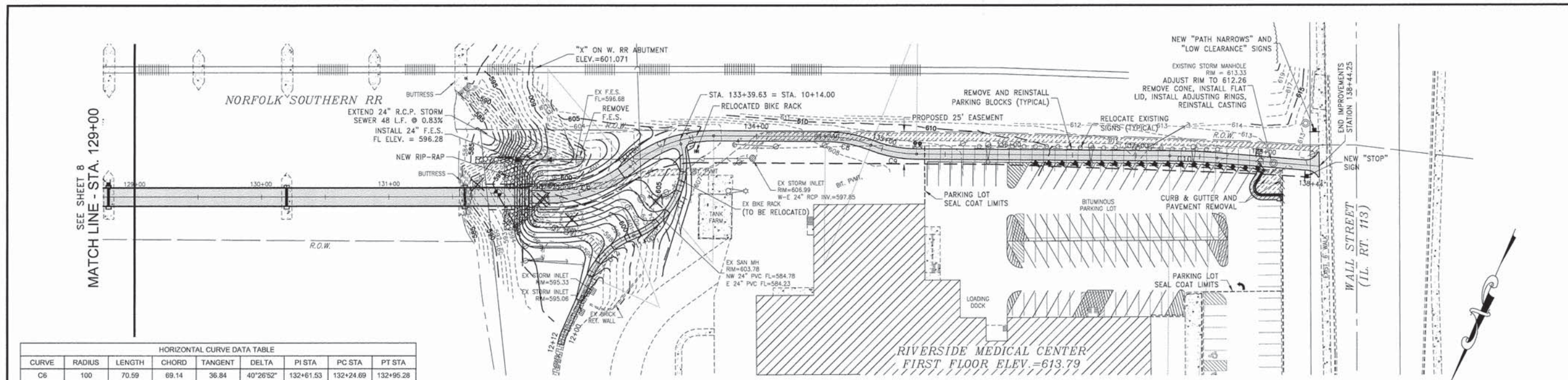
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SCALE: HORIZ: 1"=40'    VERT: 1"=4'    FILE NO.  
DRAWN BY: MRG    SHEET  
CHECKED BY: SRM    OF 25



HORIZONTAL CURVE DATA TABLE							
CURVE	RADIUS	LENGTH	CHORD	TANGENT	DELTA	PI STA	PT STA
C3	500	122.89	122.58	61.76	14°4'57"	121+85.94	122+47.07
C4	1671	417.56	416.47	209.87	14°19'3"	125+98.97	128+06.66
C5	15	22.59	20.51	14.05	86°16'20"	128+20.71	128+29.24



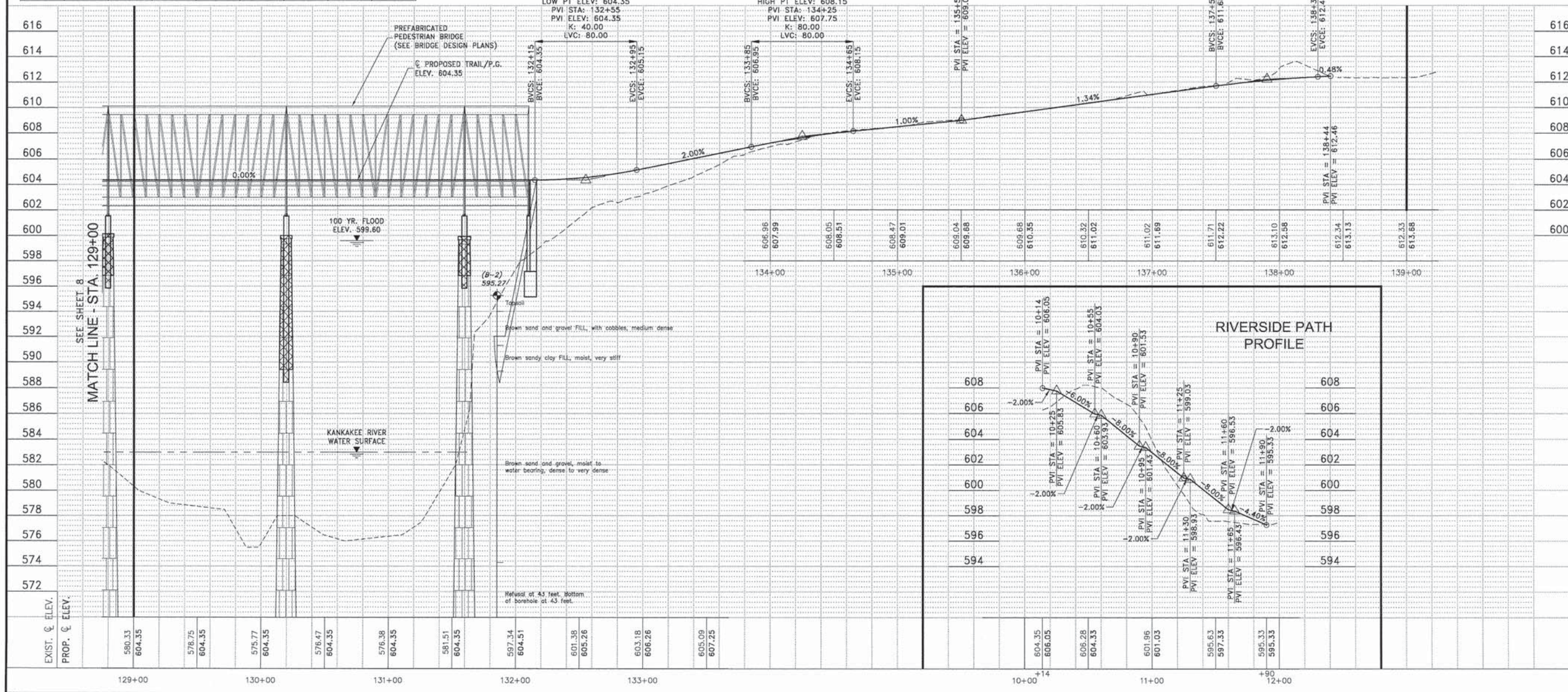




HORIZONTAL CURVE DATA TABLE										
CURVE	RADIUS	LENGTH	CHORD	TANGENT	DELTA	PI STA	PC STA	PT STA		
C6	100	70.59	69.14	36.84	40°26'52"	132+61.53	132+24.69	132+95.28		
C7	100	71.21	69.71	37.19	40°47'56"	133+32.47	132+95.28	133+66.49		
C8	100	36.76	36.55	18.59	21°03'38"	134+72.65	134+54.06	134+90.82		
C9	100	36.60	36.40	18.51	20°58'12"	135+09.32	134+90.82	135+27.42		
C10	500	37.23	37.22	18.62	04°15'56"	137+45.02	137+26.40	137+63.62		
C11	60	88.95	81.03	54.92	84°56'29"	10+72.07	10+17.14	11+06.09		
C12	60	47.89	46.63	25.31	45°44'07"	11+31.40	11+06.09	11+53.99		

NOTE: ALL WORK ON OR ALONG RIVERSIDE'S PARKING LOT MUST BE COORDINATED WITH RIVERSIDE MEDICAL CENTER.

HIGH PT STA: 138+30.00  
 HIGH PT ELEV: 612.41  
 PVI STA: 137+90  
 PVI ELEV: 612.22  
 K: 92.84  
 LVC: 80.00



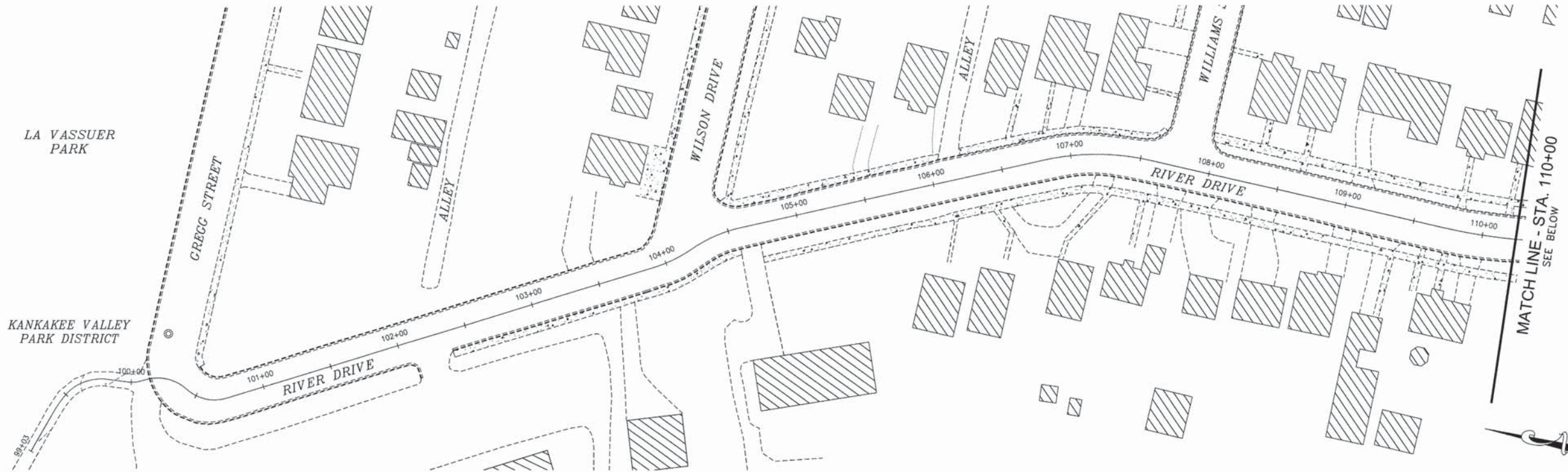
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NO.	DATE	BY	DESCRIPTION
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PLAN & PROFILE  
 STA. 129+00 TO STA. 139+00

PROJECT:  
**PROPOSED IMPROVEMENTS FOR RIVERFRONT TRAIL PHASE 2B**  
 KANKAKEE, ILLINOIS

SECTION  
 10-00276-01-BT

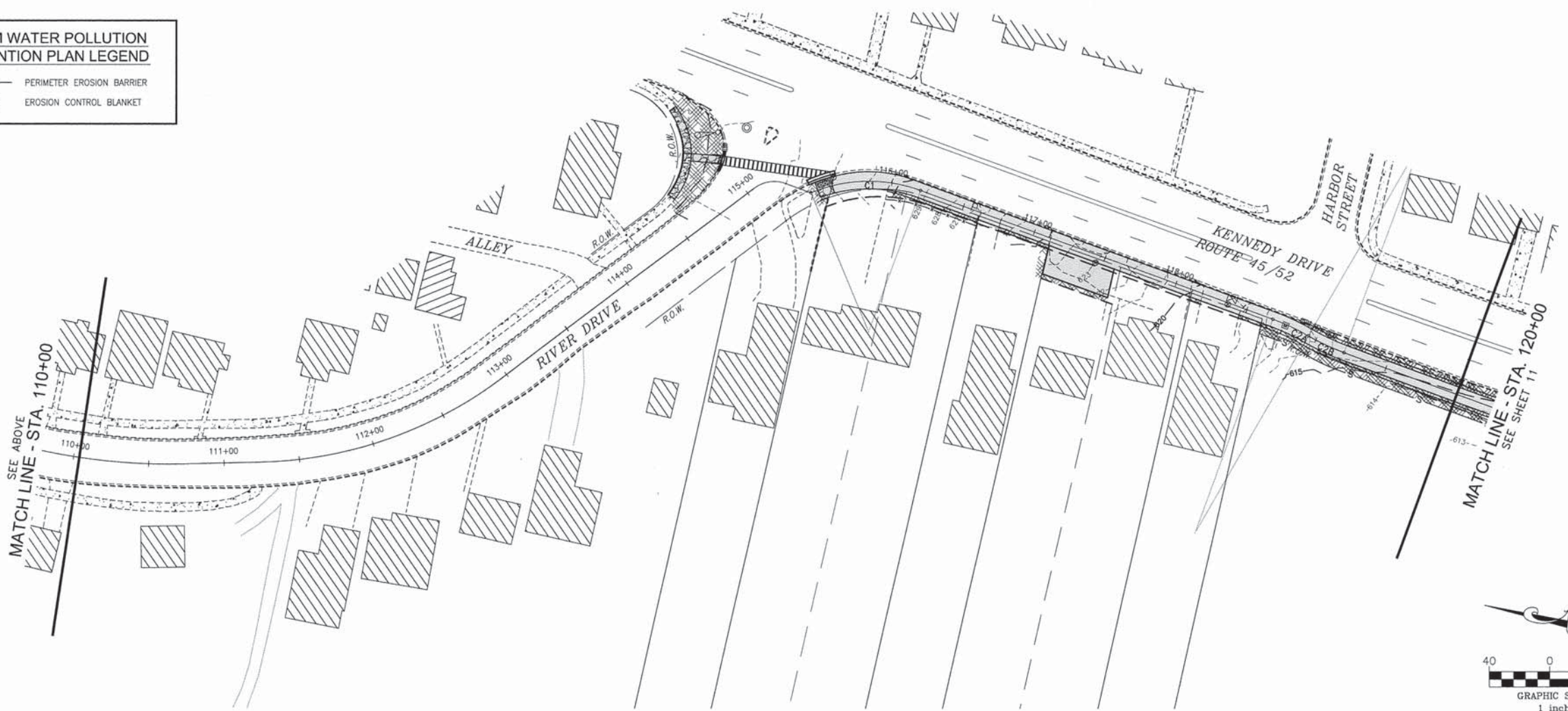
DATE: 02/16/2015    JOB NO. E10054  
 SCALE: HORZ: 1"=40'    FILE NO.  
 VERT: 1"=4'  
 DRAWN BY: MRG    SHEET  
 CHECKED BY: SRM    9  
 OF 25



**STORM WATER POLLUTION PREVENTION PLAN LEGEND**

S — PERIMETER EROSION BARRIER

[Hatched Area] — EROSION CONTROL BLANKET



FAID. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	*	KANKAKEE	25	10

CONTRACT NO. 87623

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

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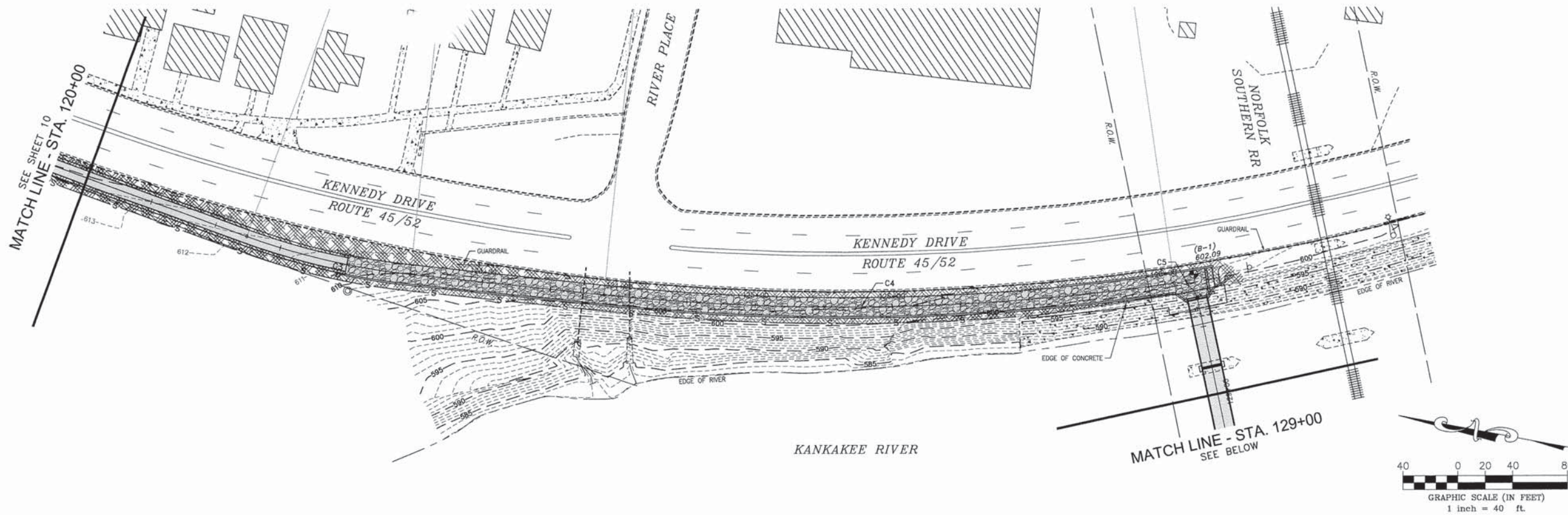
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NO.	DATE	BY	DESCRIPTION
1	03/24/15	CDB	PER IDOT REVIEW

STORM WATER POLLUTION PREVENTION PLAN

PROPOSED IMPROVEMENTS FOR  
**RIVERFRONT TRAIL  
 PHASE 2B**  
 KANKAKEE, ILLINOIS

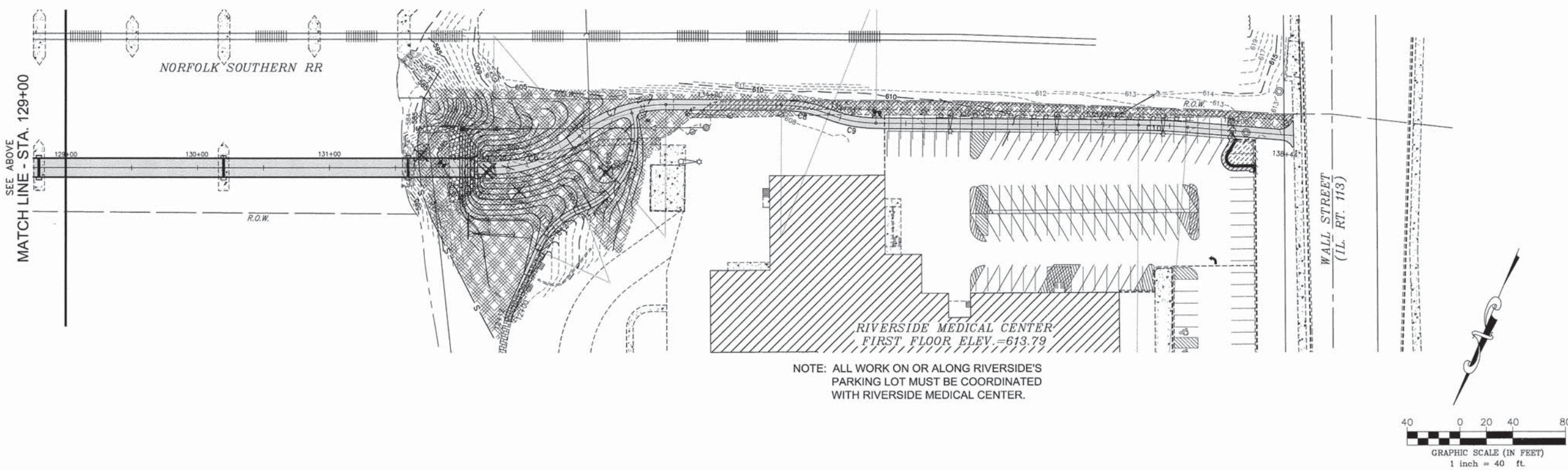
SECTION 10-00276-01-BT	
DATE: 02/16/2015	JOB NO. E10054
SCALE: 1"=40'	FILE NO.
DRAWN BY: MRG	SHEET
CHECKED BY: SRM	<b>10</b> OF 25



**STORM WATER POLLUTION PREVENTION PLAN LEGEND**

S PERIMETER EROSION BARRIER

EROSION CONTROL BLANKET



NOTE: ALL WORK ON OR ALONG RIVERSIDE'S PARKING LOT MUST BE COORDINATED WITH RIVERSIDE MEDICAL CENTER.

F.A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N/A	*	KANKAKEE	25	11

CONTRACT NO. 87623

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STORM WATER POLLUTION PREVENTION PLAN

PROJECT:  
**PROPOSED IMPROVEMENTS FOR RIVERFRONT TRAIL PHASE 2B**  
 KANKAKEE, ILLINOIS

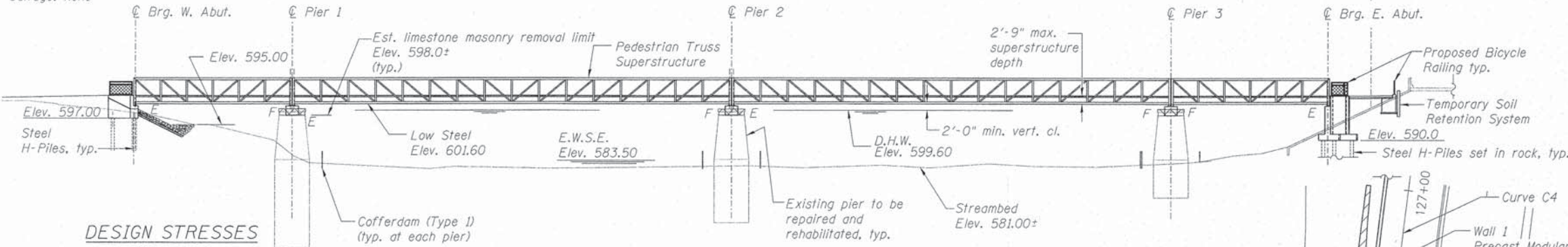
SECTION 10-00276-01-BT

DATE:	02/16/2015	JOB NO.:	E10054
SCALE:	1"=40'	FILE NO.:	
DRAWN BY:	MRG	SHEET	11
CHECKED BY:	SRM	OF	25

Bench Mark: Cut Cross on West railroad abutment. Elev. 601.071

Existing Structure: The three abandoned railroad bridge stone piers are constructed of limestone masonry slabs founded on limestone bedrock. Each existing span measures approximately 140'-0" at pier centerlines. Construction date is unknown.

Salvage: None



**DESIGN STRESSES**

**FIELD UNITS**

$f'_c = 3,500$  psi  
 $f_y = 60,000$  psi (Reinforcement)  
 $f_y = 50,000$  psi (M270 Grade 50W)

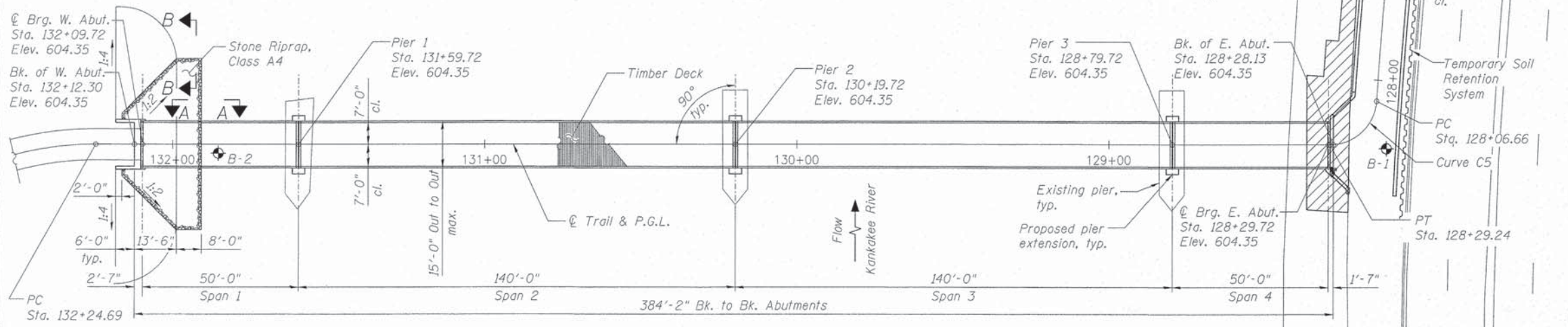
**PRECAST UNITS**

$f'_c = 4,500$  psi (Precast Modular Unit)

**LUMBER PROPERTIES**

Douglas Fir-Larch (Alt. Southern Pine), No.1 or better

**ELEVATION**

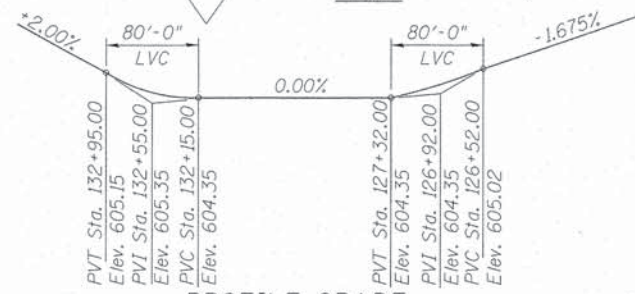


**PLAN**

**CURVE DATA**

Curve C3	Curve C4	Curve C5
P.I. Sta. = 121+85.94	P.I. Sta. = 125+98.97	P.I. Sta. = 128+20.71
$\Delta = 14^\circ 04' 57''$	$\Delta = 14^\circ 19' 3''$	$\Delta = 86^\circ 16' 20''$
$D = 11^\circ 27' 34''$	$D = 3^\circ 25' 44''$	$D = N/A$
$R = 500.00'$	$R = 1671.00'$	$R = 15.00'$
$T = 61.76'$	$T = 209.87'$	$T = 14.05'$
$L = 122.89'$	$L = 417.56'$	$L = 22.59'$
$E = 17.54'$	$E = 242.40'$	$E = 39.41'$
P.C. Sta. = 121+24.18	P.C. Sta. = 123+89.10	P.C. Sta. = 128+06.66
P.T. Sta. = 122+47.07	P.T. Sta. = 128+06.66	P.T. Sta. = 128+29.24

**PROFILE GRADE**



**WATERWAY INFORMATION**

Drainage Area = 4530 sq. mi. Low Grade Elev. xxx.xx @ Sta. xxx+xx

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	20306	3097	3097	591.8	0.0	0.0		
Base	100	43222	5816	5786	599.6	0.0	0.0		
Overtopping									
Max. Calc.	500	47336	6435	6343	601.0	0.0	0.0		

**NOTES:**

- See Sheet S-02 for Sections A-A & B-B.
- See Sheets S-10 & S-11 for full retaining wall plans and elevations.

**LEGEND**

- Limits of Exist. Masonry Pier Removal
- Slope wall removal See Sheets S-02 & S-11 for limits of removal and replacement.
- Soil Boring

**DESIGN SPECIFICATIONS**

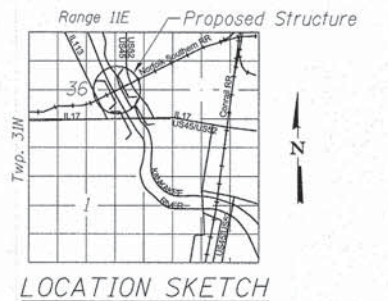
LRFD Guide Specifications for Design of Pedestrian Bridges  
 AASHTO LRFD Bridge Design Specifications, 7th Edition.

**LOADING H10**

Alternative Uniform Pedestrian Live Load = 90 psf

**SEISMIC DATA**

Seismic Performance Zone (SPZ) = 1  
 Design Spectral Acceleration at 0.0 sec. ( $A_s$ ) = 0.056g  
 Design Spectral Acceleration at 0.2 sec. ( $S_{0.2}$ ) = 0.126g  
 Design Spectral Acceleration at 1.0 sec. ( $S_{1.0}$ ) = 0.073g  
 Soil Site Class = C



**GENERAL PLAN & ELEVATION  
 KANKAKEE RIVERFRONT TRAIL  
 OVER KANKAKEE RIVER (PUBLIC WATER)**

**KANKAKEE COUNTY  
 STATION 130+19.72**

**LOCHNER**  
 H. W. LOCHNER, INC.  
 225 WEST WASHINGTON STREET  
 12TH FLOOR  
 CHICAGO, ILLINOIS 60606

USER NAME =	DESIGNED - CMM	REVISED
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PLOT DATE =	CHECKED - CMM	REVISED

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10-00276-01-BT	KANKAKEE	25	12
CONTRACT NO. 87623			ILLINOIS FED. AID PROJECT	

**GENERAL NOTES**

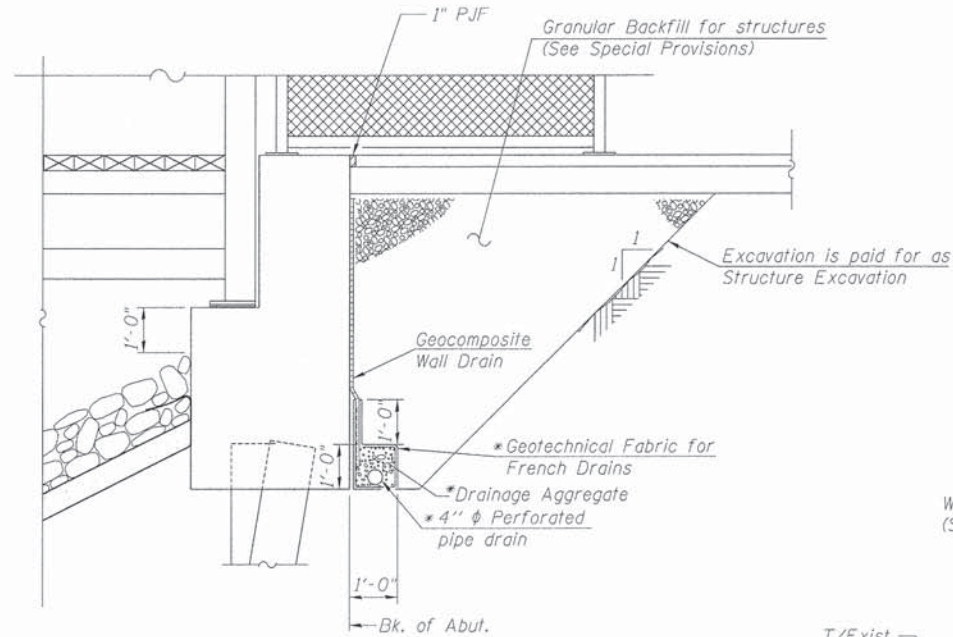
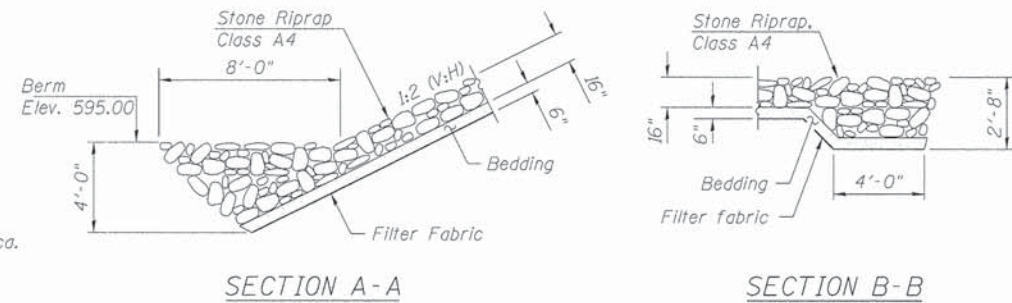
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars designated (E) shall be epoxy coated.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- Concrete Sealer shall be applied to the designated areas of the abutments and wingwalls.
- Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
- Cofferdam design details shall be submitted to the Engineer for approval with the cofferdam design.
- Construction of cofferdams must not disturb sediment and silt.
- Due to reports of several listed mussel species within the vicinity of the project, after each cofferdam is in place and prior to dewatering, all live fish and mussels shall be removed from the work area.
- No in-stream work shall be conducted between April 1 and May 31 to protect fish spawning.
- All steel products shall be domestically produced in the United States of America.
- Contractor operations must not disturb existing overhead ComEd wires located west of proposed bridge. Contact ComEd for clearance requirements.

**INDEX OF SHEETS**

Sheet No.	Sheet Title
S-01	General Plan & Elevation
S-02	General Notes, Index of Sheets & Bill of Material
S-03	Superstructure Details
S-04	West Abutment Plan & Elevation
S-05	West Abutment Details
S-06	Pier Details I
S-07	Pier Details II
S-08	East Abutment Plan & Elevation
S-09	East Abutment Details
S-10	Retaining Walls Plan & Elevation I
S-11	Retaining Walls Plan & Elevation II
S-12	Bicycle Railing
S-13	Pile Details
S-14	Soil Boring Logs

**TOTAL BILL OF MATERIAL**

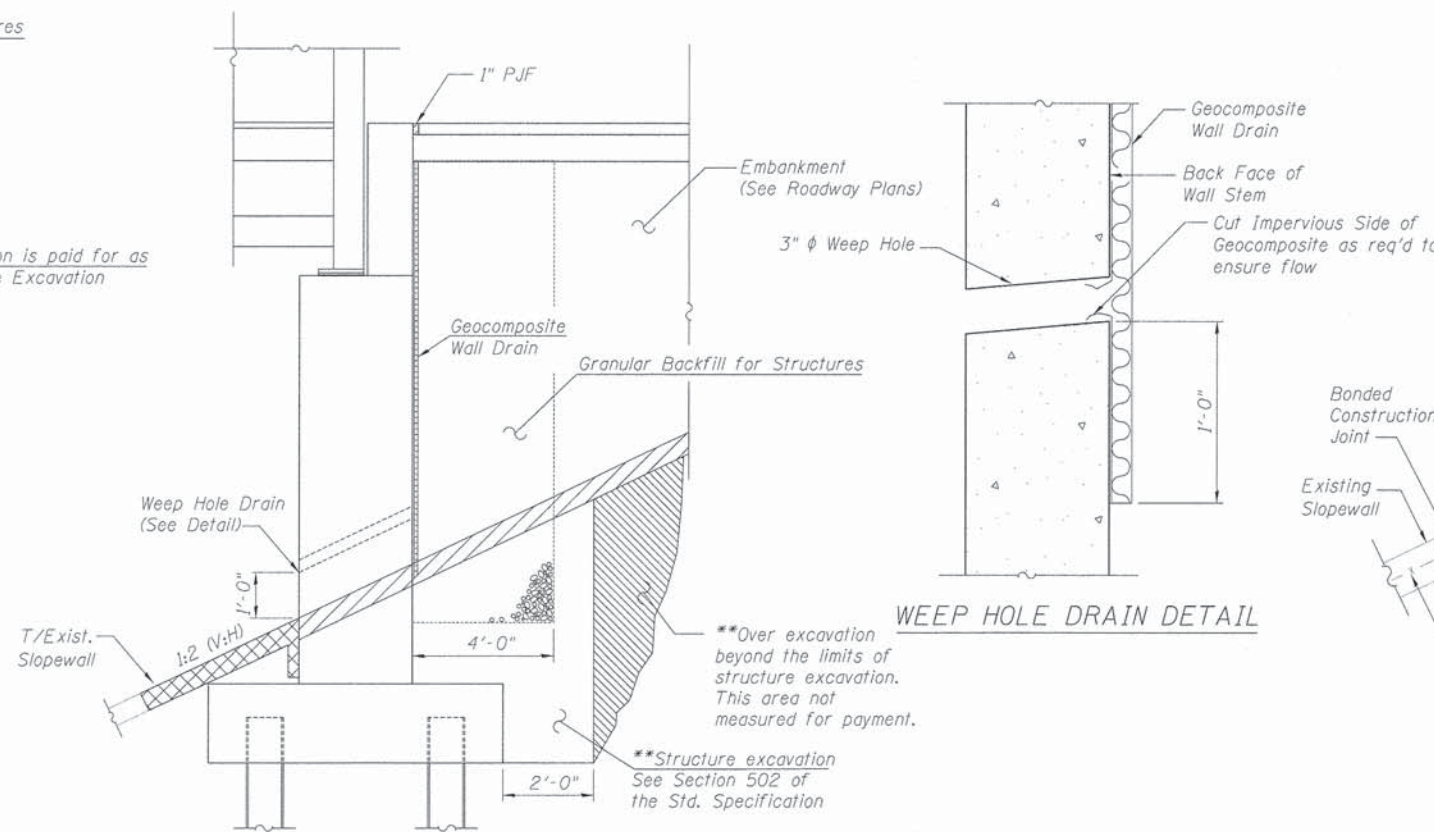
ITEM	UNIT	SUB	SUPER	TOTAL
Granular Backfill for Structures	Cu. Yd.	69.5	-	69.5
Stone Riprap, Class A4	Sq. Yd.	120.8	-	120.8
Filter Fabric	Sq. Yd.	96.3	-	96.3
Slopedwall Removal	Sq. Yd.	106	-	106
Structure Excavation	Cu. Yd.	533.5	-	533.5
Cofferdam (Type I)	Each	3	-	3
Concrete Structures	Cu. Yd.	137.0	-	137.0
Concrete Encasement	Cu. Yd.	1.8	-	1.8
Pedestrian Truss Superstructure	Sq. Ft.	-	5,718	5,718
Reinforcement Bars, Epoxy Coated	Pound	11,920	-	11,920
Bicycle Railing	Foot	752.2	-	752.2
Slope Wall 4 Inch	Sq. Yd.	106.0	-	106.0
Furnishing Steel Piles HP10x42	Foot	280.0	-	280.0
Furnishing Steel Piles HP12x63	Foot	92.0	-	92.0
Driving Piles	Foot	92.0	-	92.0
Setting Piles in Rock	Each	14	-	14
Test Pile Steel HP12x63	Each	1	-	1
Pile Shoes	Each	19	-	19
Anchor Bolts, 3/4"	Each	-	32	32
Concrete Sealer	Sq. Ft.	249	-	249
Geocomposite Wall Drain	Sq. Yd.	44.2	-	44.2
Pipe Underdrains for Structures, 4"	Foot	20.0	-	20.0
Temporary Soil Retention System	Sq. Ft.	73.3	-	73.3
Precast Modular Retaining Wall	Sq. Ft.	4,936	-	4,936
Drill and Grout <u>Drill Bas</u>	Each	168	-	168
Limestone Masonry	Sq. Ft.	300	-	300
Repair and Rehabilitate Limestone Masonry	L. Sum	1	-	1
Limestone Removal	Cu. Yd.	30	-	30



**SECTION THRU PILE SUPPORTED STUB ABUTMENT**  
(Horiz. dim. @ Rt. L's)

\*Included in the cost of Pipe Underdrains for Structures. (See Special Provisions)

Note:  
All drainage system components shall extend parallel to the abutment back wall until they intersect the wingwalls. The pipe shall extend under the wingwall, if necessary, until intersecting the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 60110).



**SECTION THRU EAST ABUTMENT**

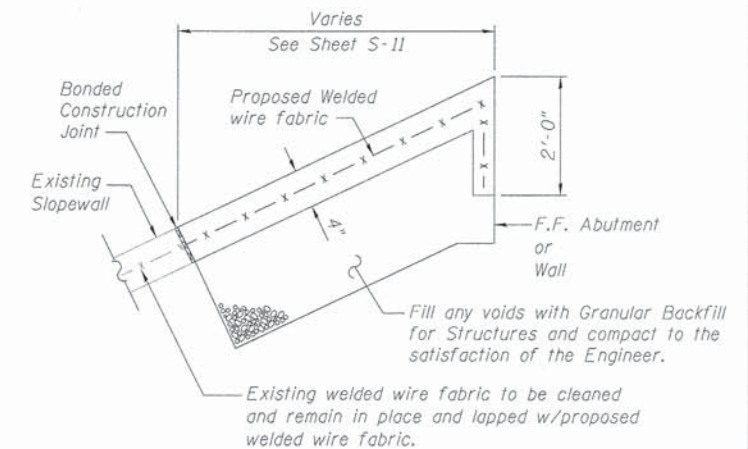
\*\*Over excavation beyond the limits of structure excavation. This area not measured for payment.

\*\*Structure excavation See Section 502 of the Std. Specification

\*\* Backfill remainder of structure excavation and over excavation with same material specified for roadway embankment



**WEEP HOLE DRAIN DETAIL**



**SLOPEWALL DETAIL**

Note: Slopedwall shall be reinforced with welded wire fabric, 6 in. x 6 in. - W4.0 x w4.0, weighing 58 lbs. per 100sq. ft.

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**LOCHNER**  
H. W. LOCHNER, INC.  
225 WEST WASHINGTON STREET  
12 TH FLOOR  
CHICAGO, ILLINOIS 60606

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**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, INDEX OF SHEETS & BILL OF MATERIAL**

SHEET NO. 2 OF 14 SHEETS

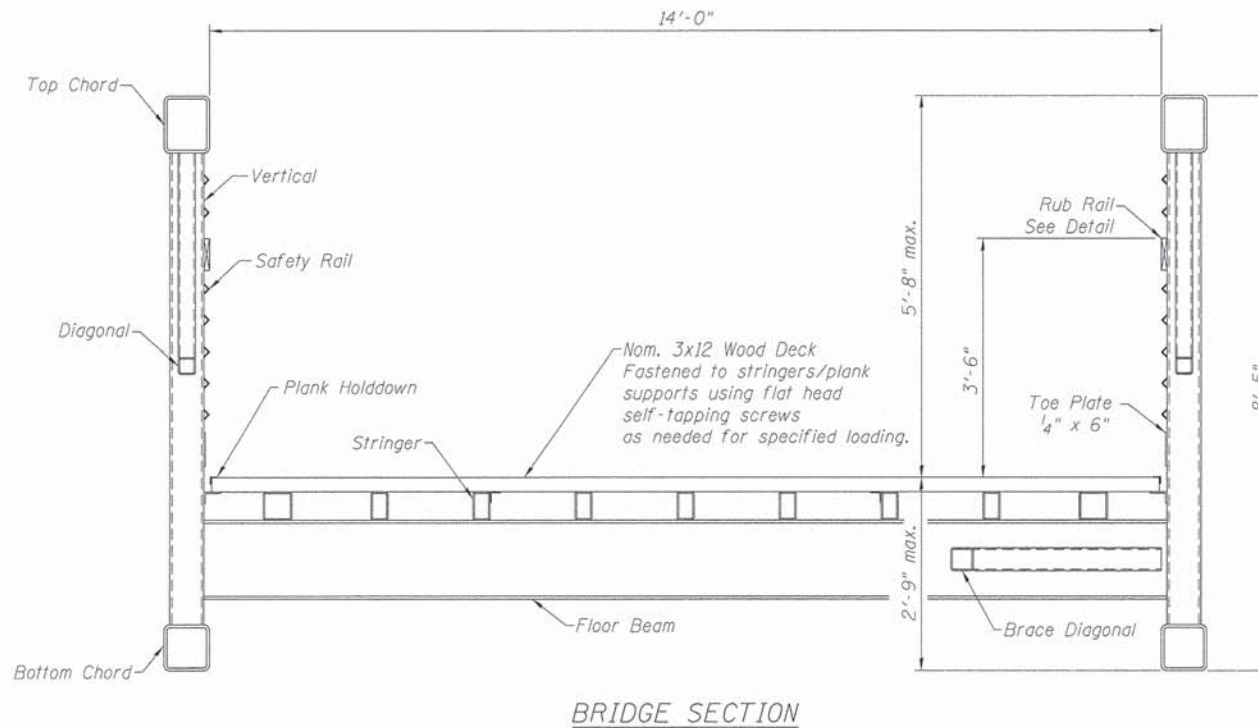
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10-00276-01-BT	KANKAKEE	25	13
CONTRACT NO. 87623			ILLINOIS FED. AID PROJECT	

**GENERAL NOTES**

- The gas metal arc welding process or Flux cored arc welding process shall be used. Welding to be in accordance with AWS D1.1.
- All top and bottom chord shop splices to be complete penetration type welds.
- Unless otherwise noted, welded connections shall be fillet welds (or have the effective throat of a fillet weld) of a size equal to the thickness of the lightest gage member in the connection. Welds shall be applied as follows:
  - Both ends of verticals, diagonals, and floor beams shall be welded all around.
  - Brace diagonals shall be welded all around.
  - Miscellaneous non-structural members shall be stitch welded to their supporting members.
- See Special Provision for additional Loading Requirements.
- Cleaning: All exposed surfaces of steel shall be cleaned in accordance with steel structures painting council surfaces preparation specifications no. 7 brush-off blast cleaning. SSPC-SPT-latest edition.
- Minimum material thickness of 1/4" on all structural steel tube members. Minimum material thickness of 5/16" on all structural steel shape members.
- Weld testing: All weld testing shall be done by a person qualified I.A.W. ASNT SNT-TC-1A.
  - All full penetration welds in the chords are to be ultrasonically tested I.A.W. AWS specifications.
  - All fillet and partial penetration groove welds shall be visually inspected with 10% also being magnetic particle tested I.A.W. AWS specifications.
  - A written testing report shall be submitted upon completion.
- Bridge manufacturer to match overall top of top chord to bottom of bottom chord dimensions of the middle spans and end spans.
- Deck-to-stringer connection shall be designed by a Structural Engineer licensed in the State of Illinois, and calculations for and drawings of such details shall be submitted with the calculations and shop drawings outlined in the Specifications.

**BRIDGE REACTION TABLE**

	AT ABUTMENTS SPAN 1 OR SPAN 4			AT PIERS 1 & 3						AT PIER 2 SPAN 2 OR SPAN 3		
	P (lb)	H (lb)	L (lb)	P (lb)	H (lb)	L (lb)	P (lb)	H (lb)	L (lb)	P (lb)	H (lb)	L (lb)
DEAD LOAD	9200	-	-	9200	-	-	30800	-	-	30800	-	-
UNIFORM LIVE LOAD	15750	-	-	15750	-	-	44100	-	-	44100	-	-
VEHICLE LOAD	10000	-	-	10000	-	-	10000	-	-	10000	-	-
WIND UPLIFT - WINDWARD	-6500	-	-	-6500	-	-	-17800	-	-	-17800	-	-
WIND UPLIFT - LEEWARD	-2200	-	-	-2200	-	-	-6300	-	-	-6300	-	-
WIND	+/-2600	8300	-	+/-2600	8300	-	+/-8500	23800	-	+/-8500	23800	-
THERMAL	-	-	1200	-	-	1200	-	-	4100	-	-	4100



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**STATE OF ILLINOIS  
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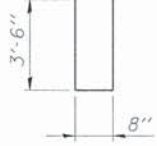
**SUPERSTRUCTURE DETAILS**

SHEET NO. 3 OF 14 SHEETS

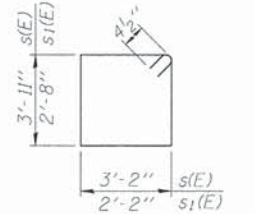
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			CONTRACT NO. 87623	
ILLINOIS FED. AID PROJECT				



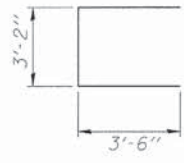
BAR h(E)



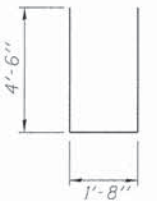
BAR n(E)



BARS s(E) & s1(E)



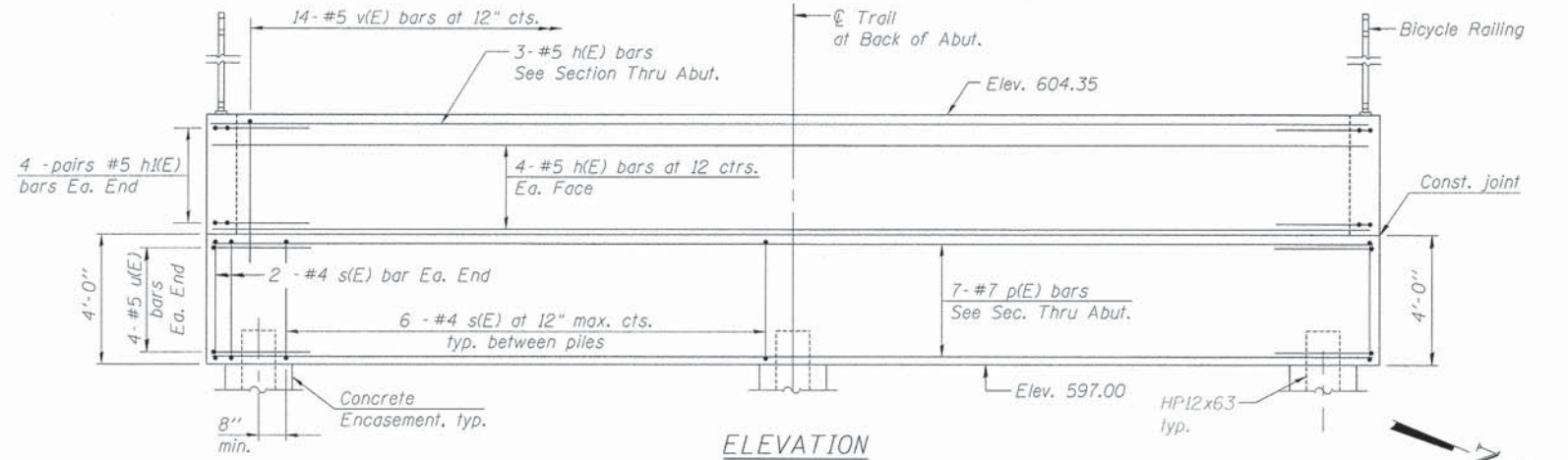
BAR u(E)



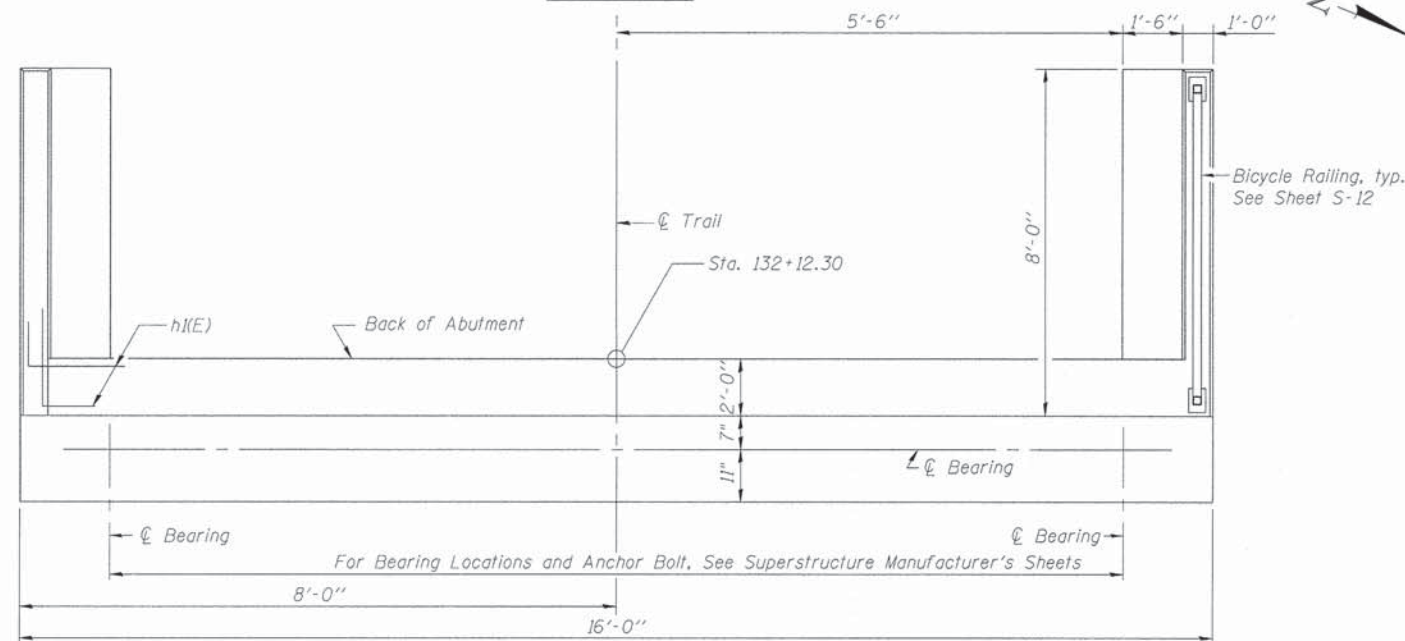
BAR v(E)

**PILE DATA**

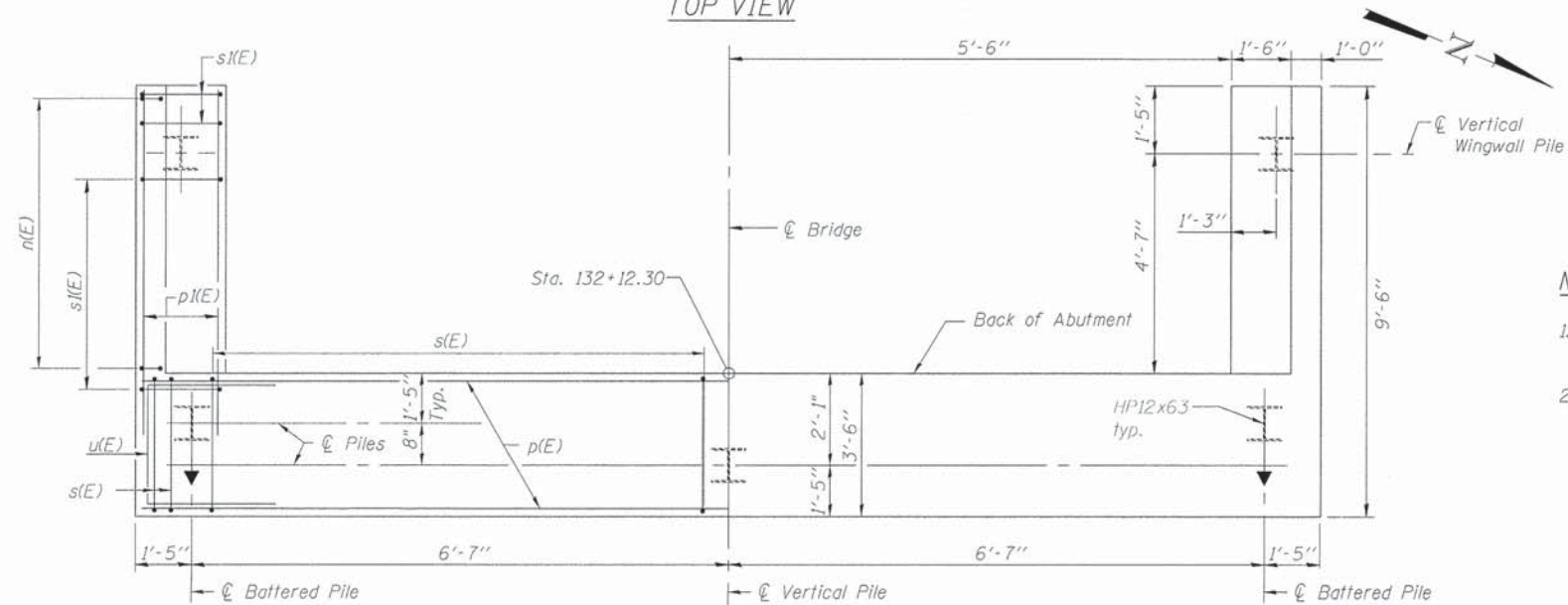
Type: HP 12X63 with pile shoes  
 Nominal Required Bearing: 201 k  
 Factored Resistance Available: 113 k  
 Est. Length: 23'-0"  
 No. Production Piles: 4  
 No. Test Piles: 1



ELEVATION



TOP VIEW



PLAN-PILE CAP

**ABUTMENT  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	9	#5	15'-8"	—
h1(E)	16	#5	3'-0"	└
h2(E)	20	#4	7'-8"	—
n(E)	18	#6	7'-8"	└
p(E)	7	#7	15'-8"	—
p1(E)	14	#7	8'-6"	—
s(E)	16	#4	14'-11"	└
s1(E)	18	#4	10'-5"	└
u(E)	8	#5	10'-2"	└
v(E)	14	#5	10'-8"	└
v1(E)	36	#6	3'-0"	└
Structure Excavation		Cu. Yd.	12.7	
Concrete Structures		Cu. Yd.	17.5	
Reinforcement Bars, Epoxy Coated		Pound	1,670	
Furnishing Steel - Piles, HP12x63		Foot	92.0	
Driving Piles		Foot	92.0	
Test Pile, HP12x63		Each	1	
Pile Shoes		Each	5	
Concrete Encasement		Cu. Yd.	1.8	
Concrete Sealer		Sq. Ft.	122	

**NOTES**

- For details of piles and Concrete Encasement, see Sheet S-13.
- Concrete Sealer shall be applied to Top of bearing seat, Front Face and Top of Backwall and Top of Wingwalls.

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 H. W. LOCHNER, INC.  
 225 WEST WASHINGTON STREET  
 12 TH FLOOR  
 CHICAGO, ILLINOIS 60606

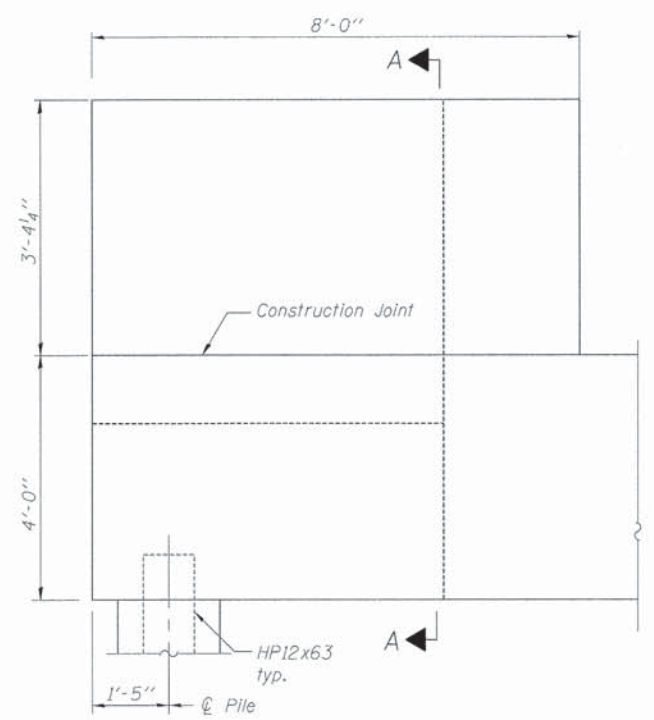
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**STATE OF ILLINOIS  
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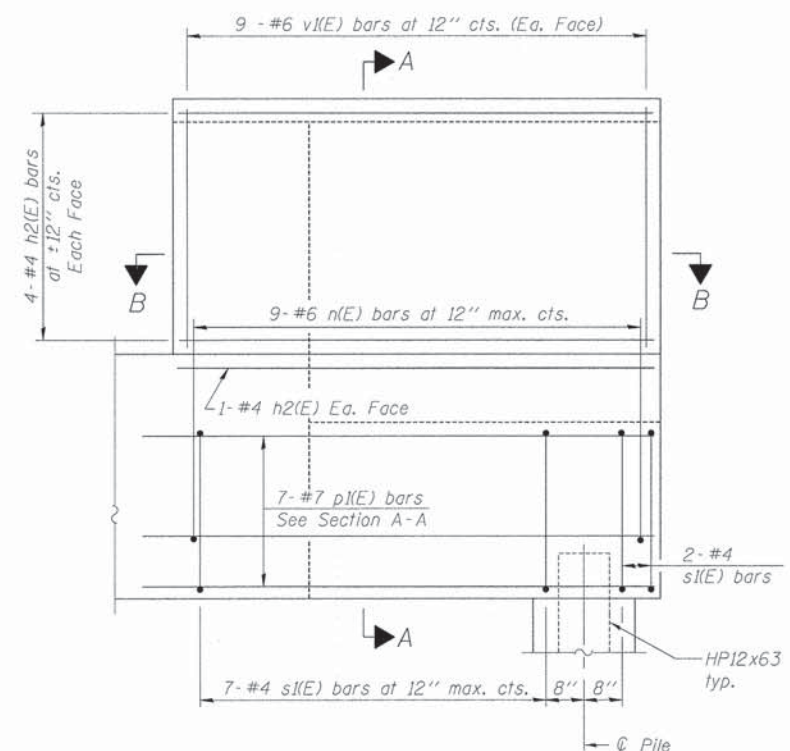
**WEST ABUTMENT PLAN & ELEVATION**

SHEET NO. 4 OF 14 SHEETS

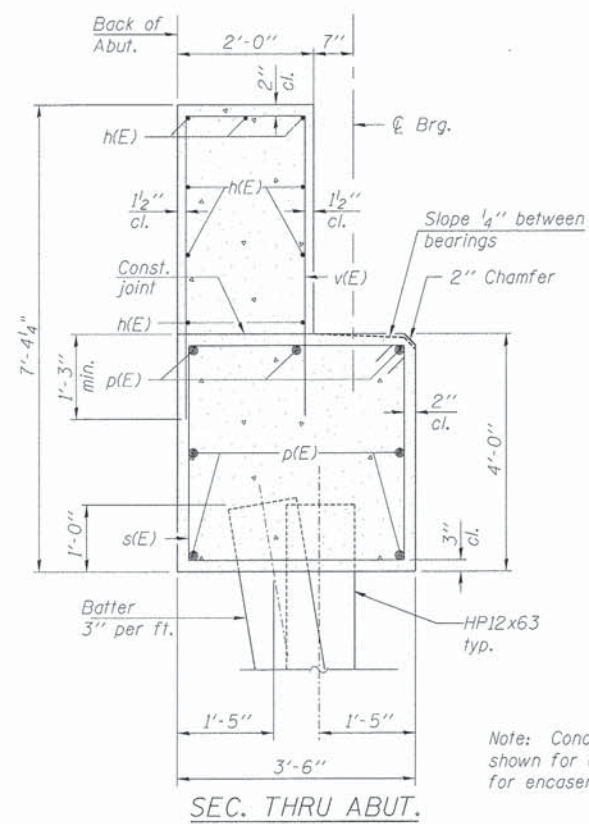
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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			CONTRACT NO.	87623
ILLINOIS FED. AID PROJECT				



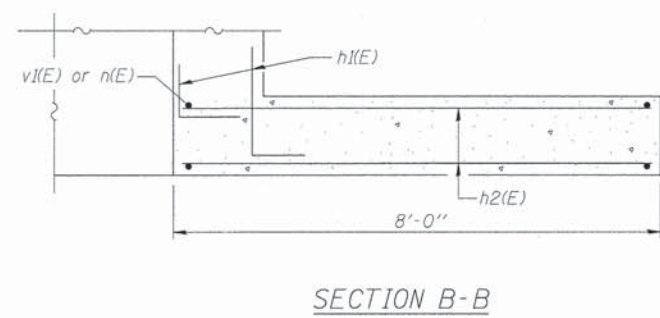
WING WALL ELEVATION  
Showing Dimensions



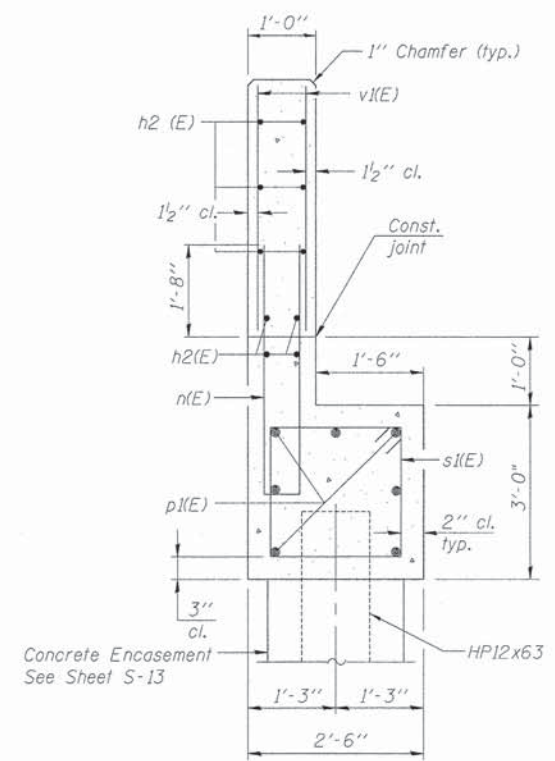
WING WALL ELEVATION  
Showing Reinforcement



Note: Concrete encasements not shown for clarity. See Sheet S-13 for encasement details.



SECTION B-B



SECTION A-A

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**LOCHNER**  
H. W. LOCHNER, INC.  
225 WEST WASHINGTON STREET  
12 TH FLOOR  
CHICAGO, ILLINOIS 60606

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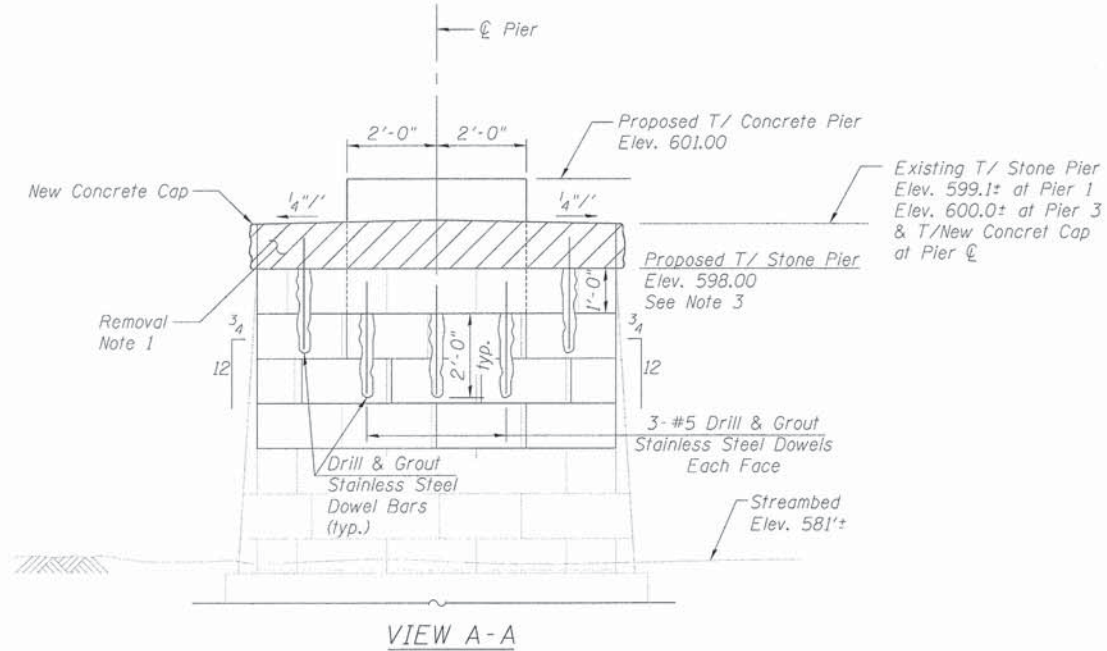
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT DETAILS

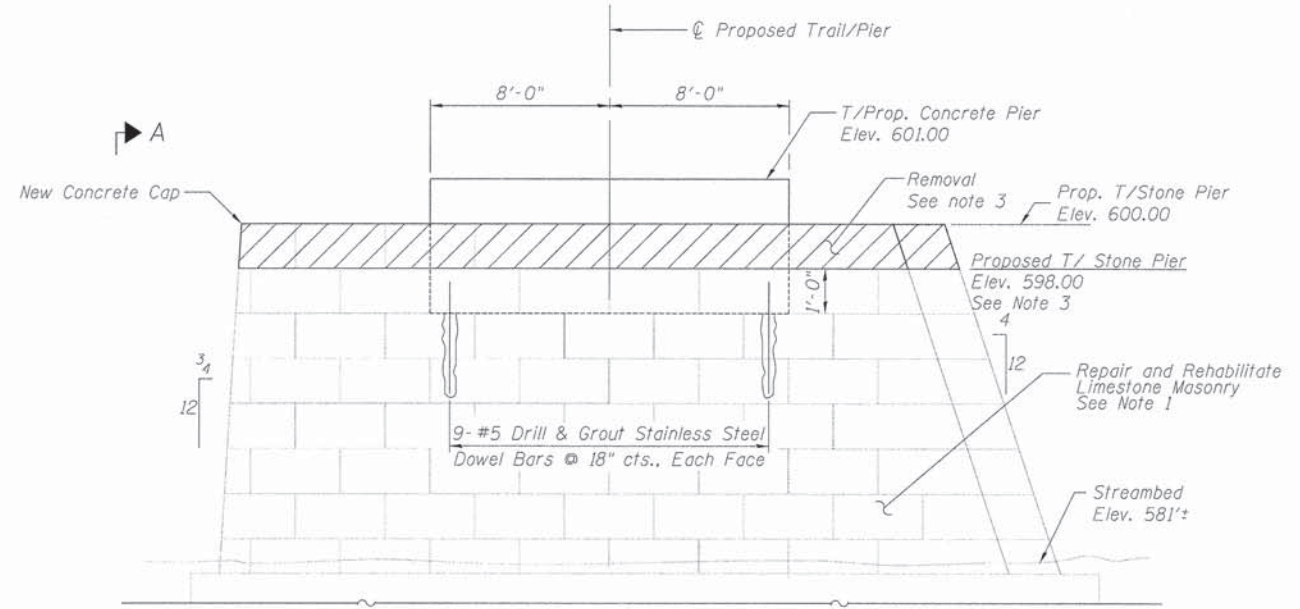
SHEET NO. 5 OF 14 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 87623			ILLINOIS FED. AID PROJECT	

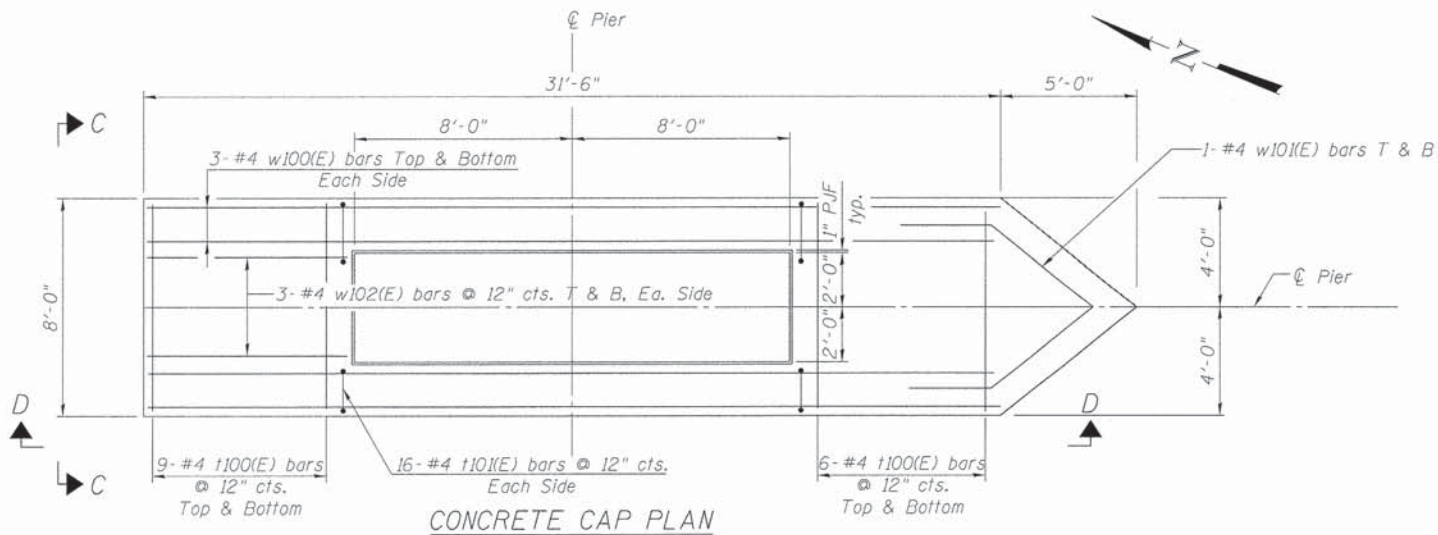




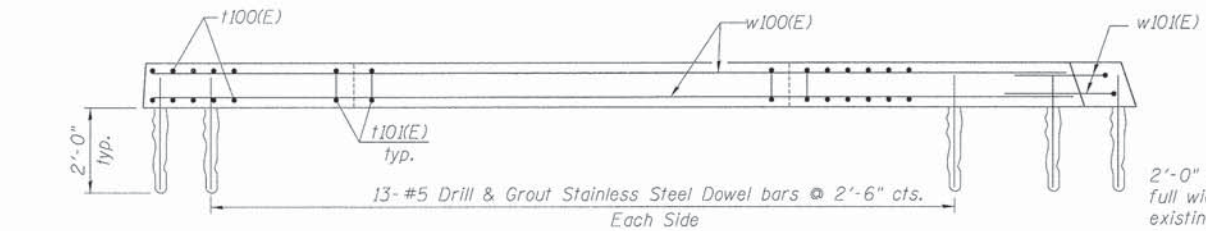
VIEW A-A



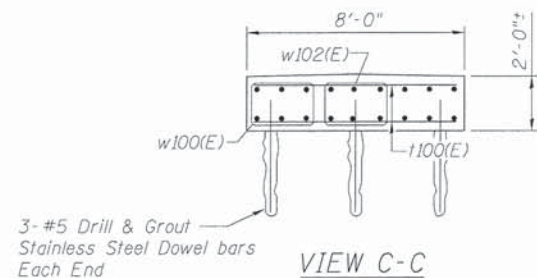
PIER 1 & 3 ELEVATION



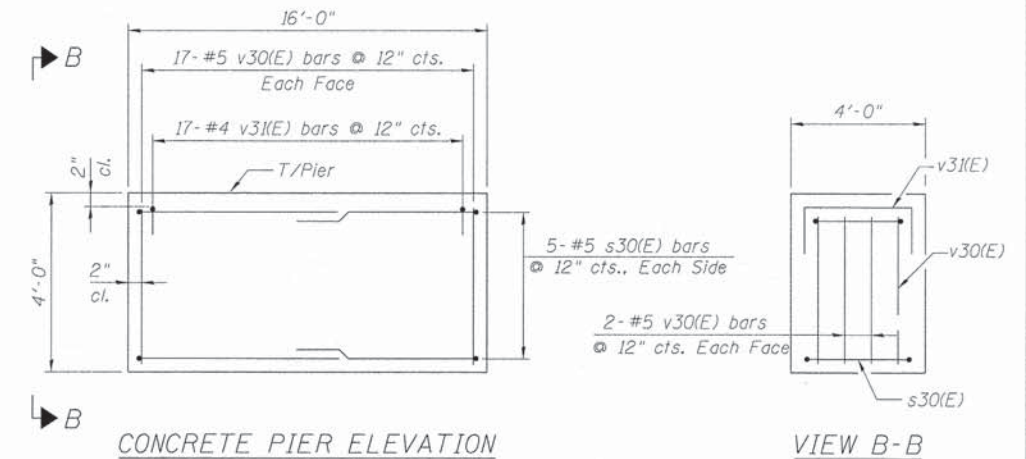
CONCRETE CAP PLAN



VIEW D-D

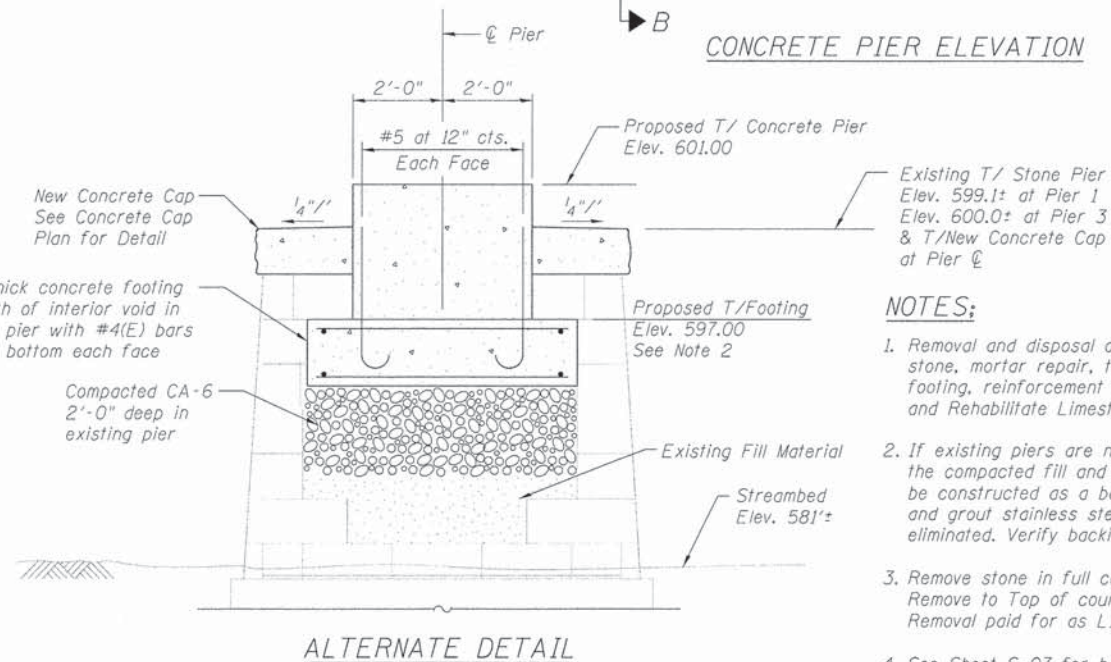


VIEW C-C



CONCRETE PIER ELEVATION

VIEW B-B



ALTERNATE DETAIL

**NOTES:**

1. Removal and disposal of masonry and existing vegetation, cleaning existing stone, mortar repair, tuckpointing and furnishing installation of concrete footing, reinforcement and compact CA-6 (if required) are included in Repair and Rehabilitate Limestone Masonry. See Special Provision.
2. If existing piers are not solid masonry but contain other backing, the compacted fill and concrete footing shown in "Alternate Detail" shall be constructed as a base for the proposed concrete pier and the drill and grout stainless steel dowel bars in the concrete pier shall be eliminated. Verify backing materials in field and advise Engineer.
3. Remove stone in full course units. Remove to Top of course closest to but below Elev. 598.00 Removal paid for as LIMESTONE REMOVAL.
4. See Sheet S-07 for bar diagrams bar list and Bill of Material.

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**LOCHNER**  
H. W. LOCHNER, INC.  
225 WEST WASHINGTON STREET  
12 TH FLOOR  
CHICAGO, ILLINOIS 60606

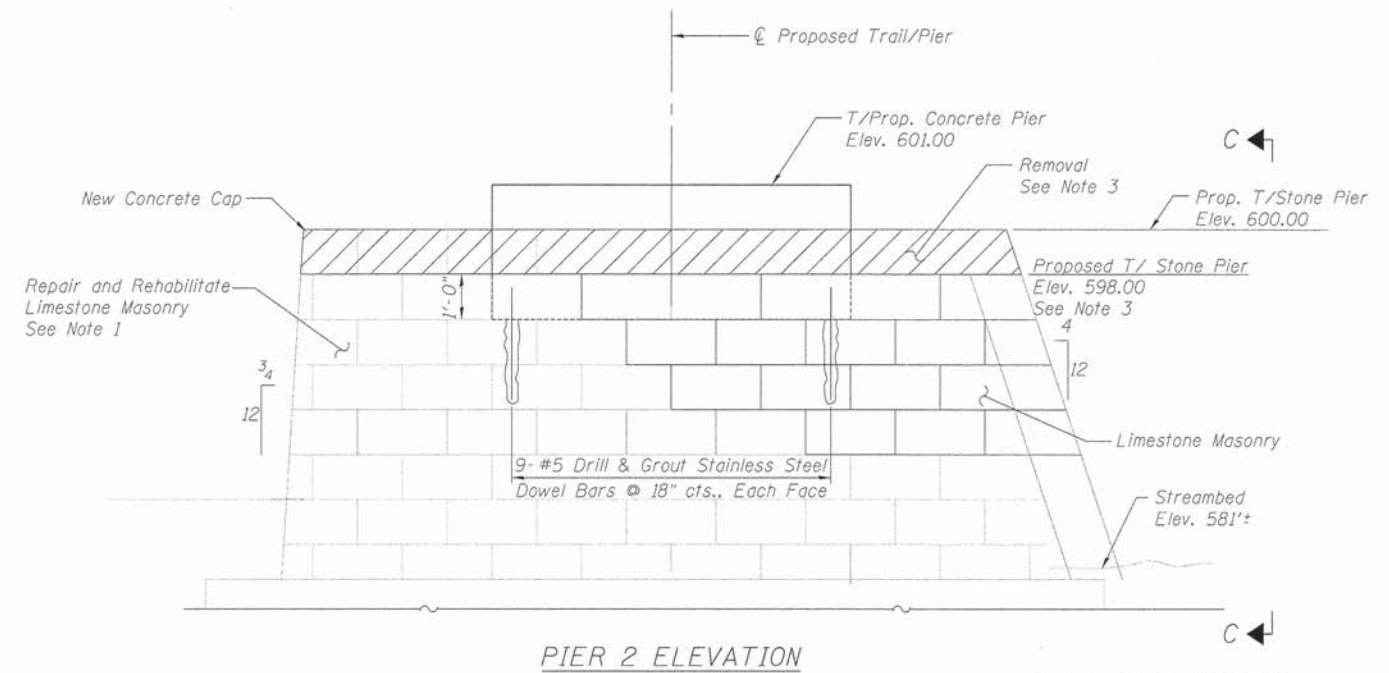
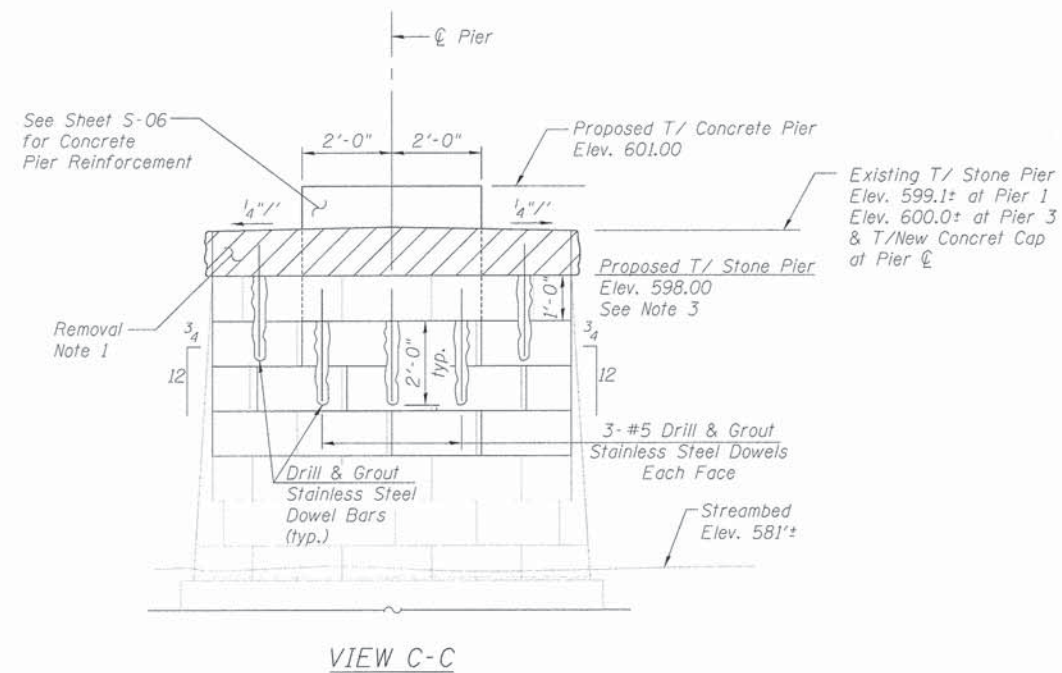
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PLOT DATE =	CHECKED - CMM	REVISED

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PIER DETAILS I

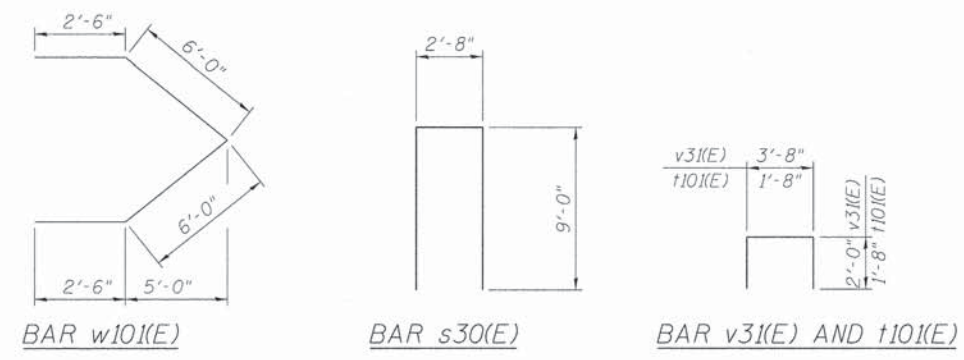
SHEET NO. 6 OF 14 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10-00276-01-BT	KANKAKEE	25	17
CONTRACT NO. 87623			ILLINOIS FED. AID PROJECT	



**BILL OF MATERIAL FOR 3 PIERS**

Bar	No.	Size	Length	Shape
s30(E)	30	#5	20'-8"	□
t100(E)	90	#4	7'-8"	—
t101(E)	96	#4	5'-0"	□
v30(E)	114	#6	3'-8"	—
v31(E)	51	#4	7'-8"	□
w100(E)	36	#4	31'-2"	—
w101(E)	6	#4	17'-0"	>
w102(E)	24	#4	7'-6"	—
Concrete Structures		Cu. Yd.	74.7	
Reinforcement Bars, Epoxy Coated		Pound	3,260	
Drill and Grout Dowel Bars		Each	168	
Limestone Masonry		Sq. Ft.	300	
Repair and Rehabilitate Limestone Masonry		L. Sum	1	
Limestone Removal		Cu. Yd.	30.0	



- NOTES:**
1. Removal and disposal of masonry and existing vegetation, cleaning existing stone, mortar repair, tuckpointing and furnishing installation of concrete footing, reinforcement and compact CA-6 (if required) are included in Repair and Rehabilitate Limestone Masonry. See Special Provision.
  2. If existing piers are not solid masonry but contain other backing, the compacted fill and concrete footing shown in "Alternate Detail" shall be constructed as a base for the proposed concrete pier and the drill and grout stainless steel dowel bars in the concrete pier shall be eliminated. Verify backing materials in field and advise Engineer.
  3. Remove stone in full course units. Remove to Top of course closest to but below Elev. 598.00. Removal paid as LIMESTONE REMOVAL.
  4. See Sheet S-06 for concrete pier reinforcement.

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CHICAGO, ILLINOIS 60606

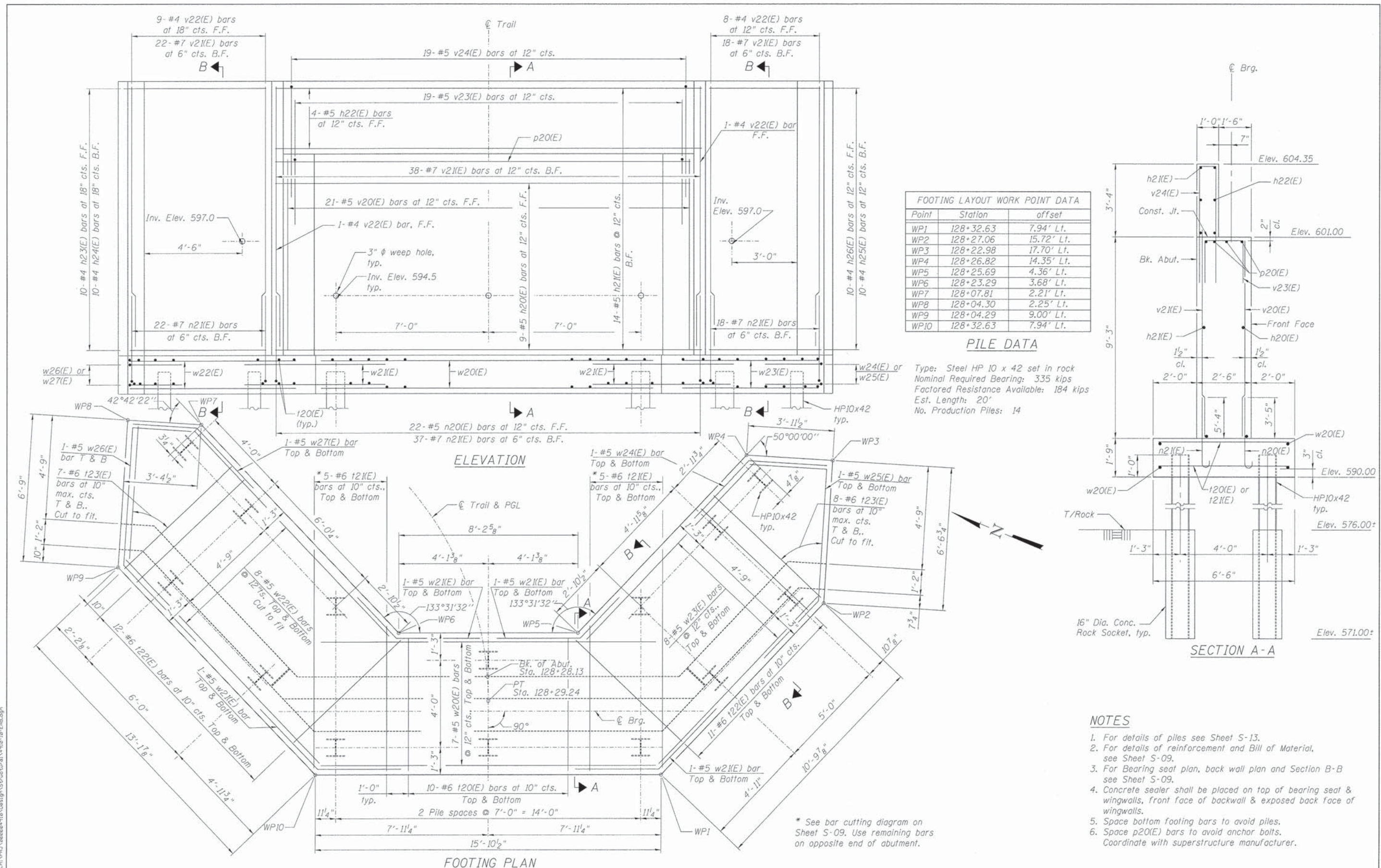
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**STATE OF ILLINOIS  
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**PIER DETAILS II**

SHEET NO. 7 OF 14 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10-00276-01-BT	KANKAKEE	25	18
			CONTRACT NO.	87623
ILLINOIS FED. AID PROJECT				

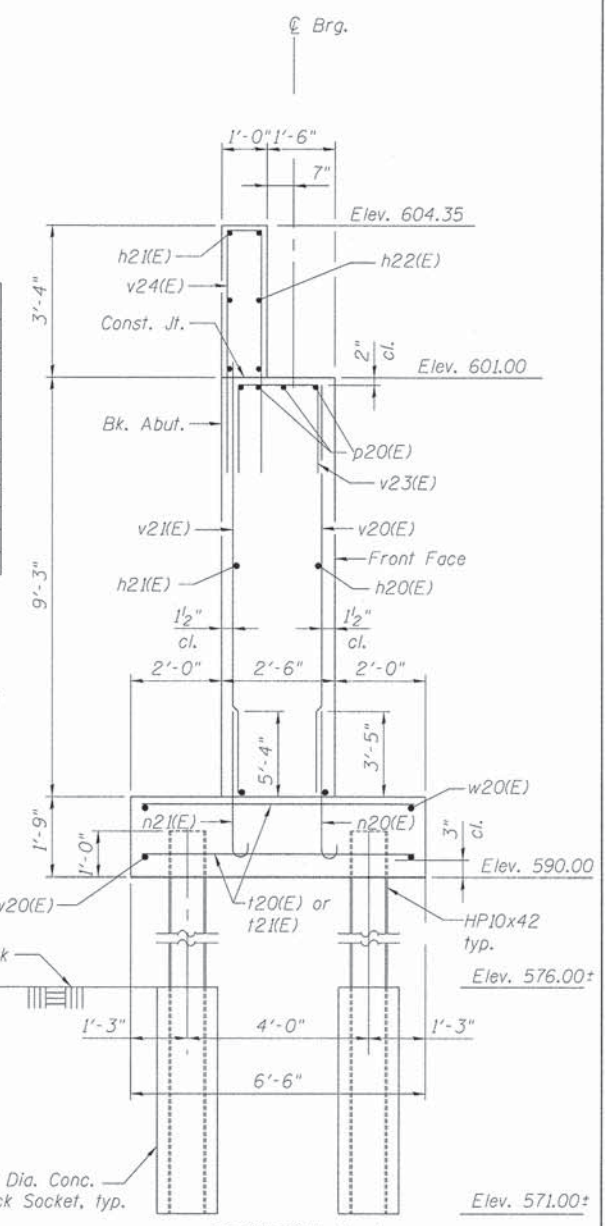


**FOOTING LAYOUT WORK POINT DATA**

Point	Station	offset
WP1	128+32.63	7.94' Lt.
WP2	128+27.06	15.72' Lt.
WP3	128+22.98	17.70' Lt.
WP4	128+26.82	14.35' Lt.
WP5	128+25.69	4.36' Lt.
WP6	128+23.29	3.68' Lt.
WP7	128+07.81	2.21' Lt.
WP8	128+04.30	2.25' Lt.
WP9	128+04.29	9.00' Lt.
WP10	128+32.63	7.94' Lt.

**PILE DATA**

Type: Steel HP 10 x 42 set in rock  
 Nominal Required Bearing: 335 kips  
 Factored Resistance Available: 184 kips  
 Est. Length: 20'  
 No. Production Piles: 14



- NOTES**
1. For details of piles see Sheet S-13.
  2. For details of reinforcement and Bill of Material, see Sheet S-09.
  3. For Bearing seat plan, back wall plan and Section B-B see Sheet S-09.
  4. Concrete sealer shall be placed on top of bearing seat & wingwalls, front face of backwall & exposed back face of wingwalls.
  5. Space bottom footing bars to avoid piles.
  6. Space p20(E) bars to avoid anchor bolts. Coordinate with superstructure manufacturer.

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USER NAME =	DESIGNED - CMM	REVISED
FILE NAME = 4910-10-EAB.dgn	CHECKED - RH	REVISED
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**STATE OF ILLINOIS  
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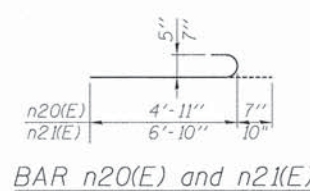
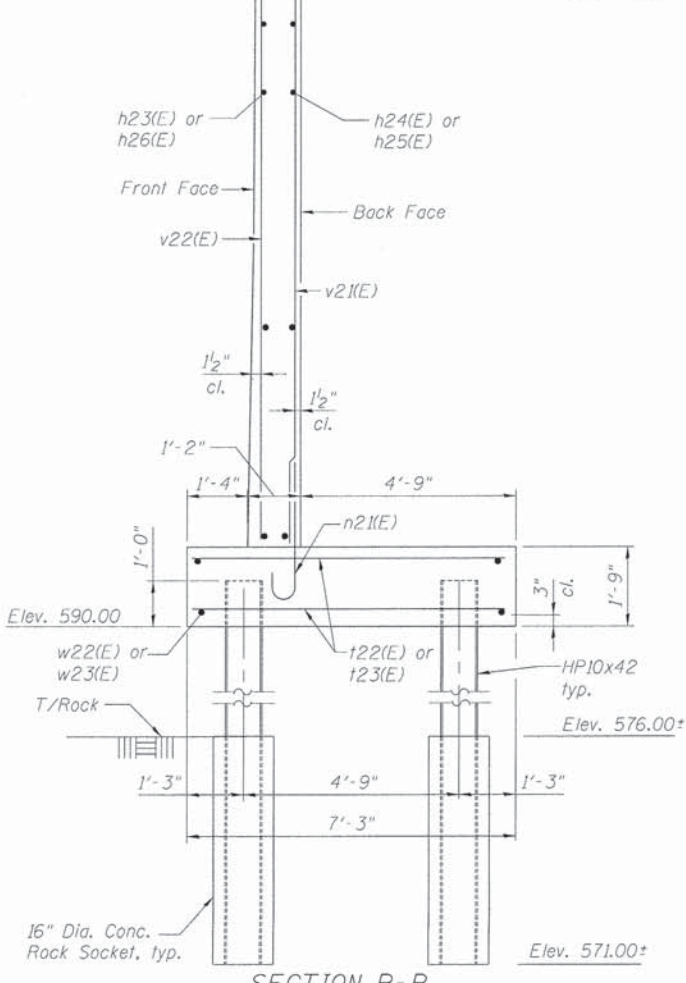
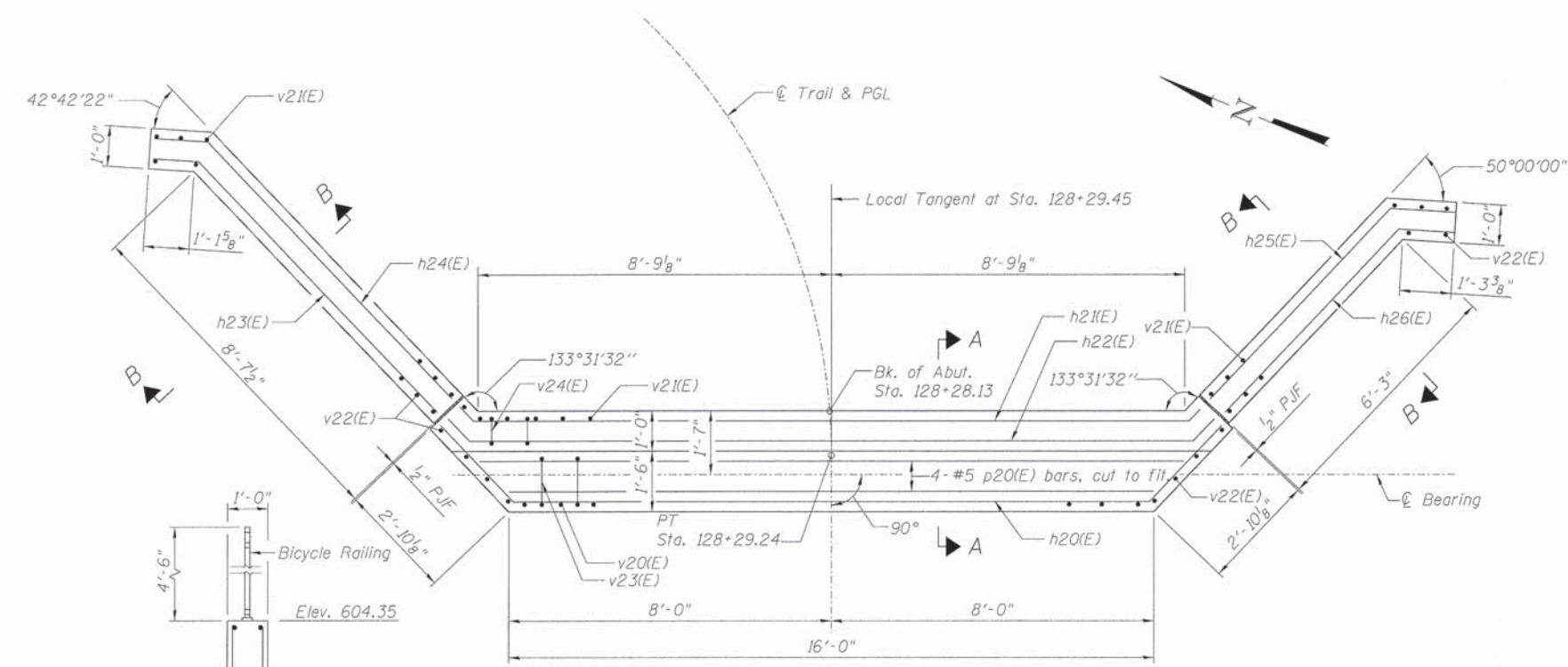
**EAST ABUTMENT PLAN & ELEVATION**

SHEET NO. 8 OF 14 SHEETS

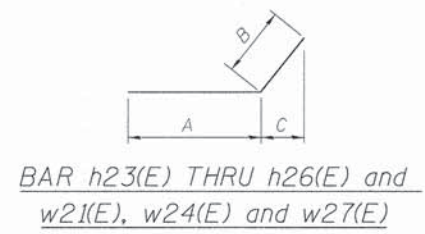
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10-00276-01-BT	KANKAKEE	25	14
			CONTRACT NO.	87623
ILLINOIS FED. AID PROJECT				

**EAST ABUTMENT  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h20(E)	9	#5	19'-6"	
h21(E)	14	#5	17'-10"	
h22(E)	4	#5	19'-8"	
h23(E)	10	#4	9'-10"	
h24(E)	10	#4	9'-0"	
h25(E)	10	#4	7'-10"	
h26(E)	10	#4	7'-0"	
n20(E)	22	#5	5'-6"	
n21(E)	77	#7	7'-8"	
p20(E)	4	#5	18'-6"	
t20(E)	20	#6	6'-2"	
t21(E)	10	#6	16'-8"	
t22(E)	48	#6	6'-11"	
t23(E)	30	#6	7'-3"	
v20(E)	21	#5	8'-11"	
v21(E)	78	#7	12'-4"	
v22(E)	19	#4	12'-4"	
v23(E)	19	#5	7'-2"	
v24(E)	19	#5	13'-0"	
w20(E)	14	#5	15'-6"	
w21(E)	8	#5	7'-4"	
w22(E)	16	#5	15'-0"	
w23(E)	16	#5	13'-3"	
w24(E)	2	#5	7'-3"	
w25(E)	2	#5	13'-5"	
w26(E)	2	#5	13'-1"	
w27(E)	2	#5	6'-8"	
Structure Excavation		Cu. Yd.	111.6	
Concrete Structures		Cu. Yd.	44.8	
Reinforcement Bars, Epoxy Coated		Pound	6,690	
Furnishing Steel Piles, HP10x42		Foot	280.0	
Setting Piles in Rock		Each	14	
Concrete Sealer		Sq. Ft.	127	

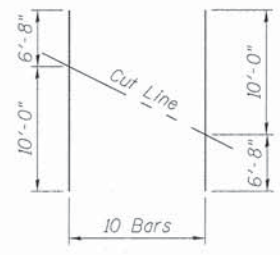


BAR n20(E) and n21(E)



BAR h23(E) THRU h26(E) and w21(E), w24(E) and w27(E)

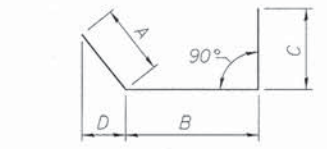
Bar	A	B	C
h23(E)	8'-6"	1'-1"	1'-0"
h24(E)	8'-1"	1'-6"	8"
h25(E)	6'-4"	1'-4"	11 1/2"
h26(E)	5'-11"	11"	8"
w21(E)	3'-8"	3'-8"	2'-6"
w24(E)	3'-7"	3'-8"	2'-4"
w27(E)	3'-8"	3'-0"	2'-2"



BAR h20(E), h21(E) and h22(E)

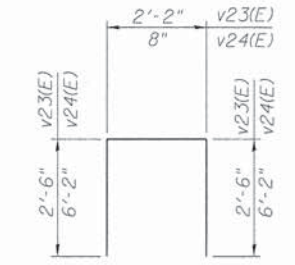
Bar	A	B	C
h21(E)	15'-10"	1'-10"	1'-3"
h22(E)	17'-2"	4"	2 3/4"
h23(E)	18'-6"	7"	4 3/4"

BAR t21(E)



BAR w25(E) and w26(E)

Bar	A	B	C	D
w25(E)	3'-8"	6'-2"	3'-7"	2'-4"
w26(E)	3'-8"	6'-5"	3'-0"	2'-9"



BAR v23(E) and v24(E)

**NOTES**

1. Work this sheet with Sheet S-08.
2. For details of piles see Sheet S-13.
3. Space p20(E) bars to avoid anchor bolts. Coordinate with superstructure manufacturer.

**LOCHNER**  
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12 TH FLOOR  
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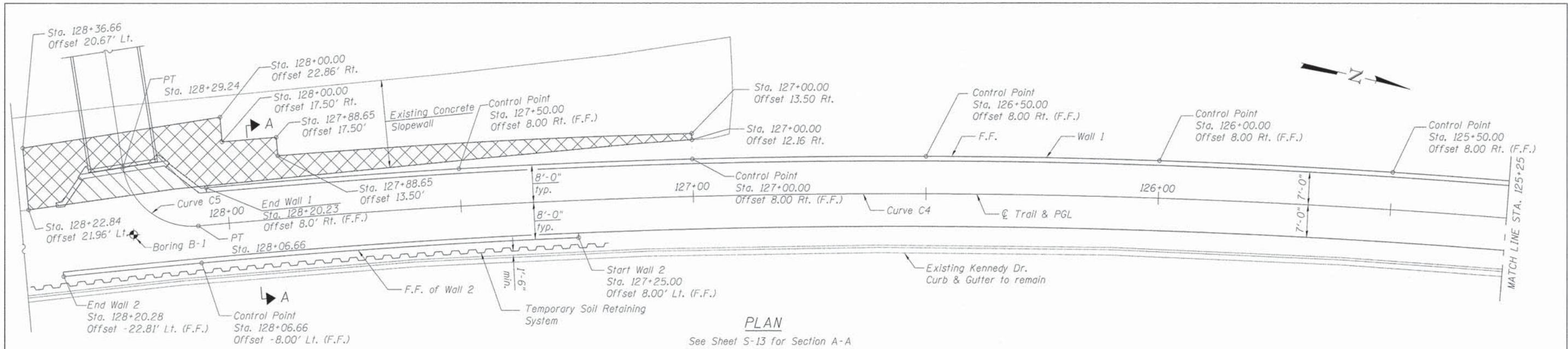
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

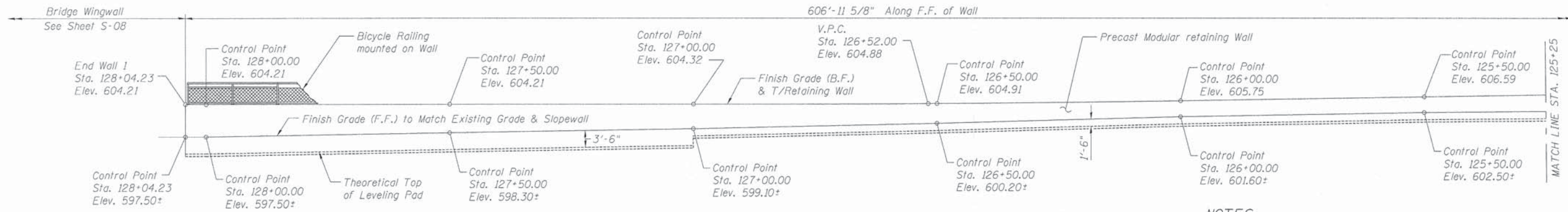
**EAST ABUTMENT DETAILS**

SHEET NO. 9 OF 14 SHEETS

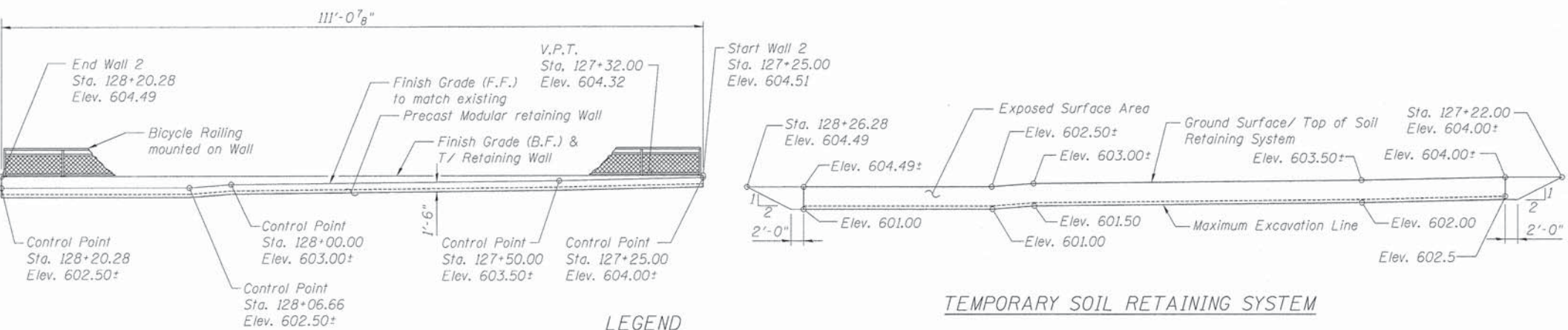
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10-00276-01-BT	KANKAKEE	25	20
CONTRACT NO. 87623			ILLINOIS FED. AID PROJECT	



**PLAN**  
See Sheet S-13 for Section A-A



**WALL 1 ELEVATION**  
(Looking at F.F. of wall)



**WALL 2 ELEVATION**  
(Looking at F.F. of wall)

**TEMPORARY SOIL RETAINING SYSTEM**

- LEGEND**
- F.F. = Front Face
  - B.F. = Back Face
  - ◆ - Soil Boring Location
  - [Hatched Box] Slopewall Removal and placement of Slopewall, 4 inch
  - [Cross-hatched Box] Slopewall Removal

**NOTES**

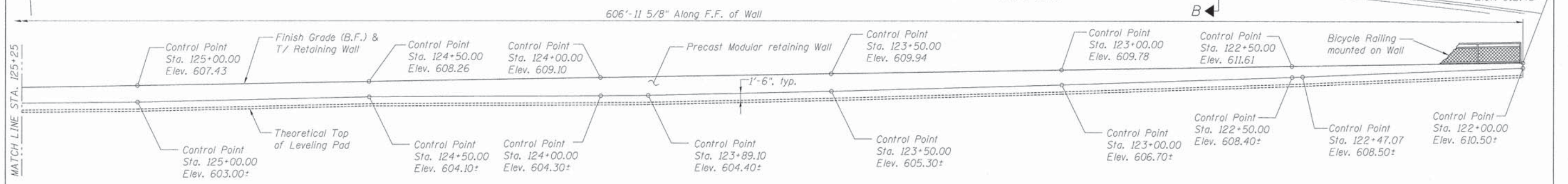
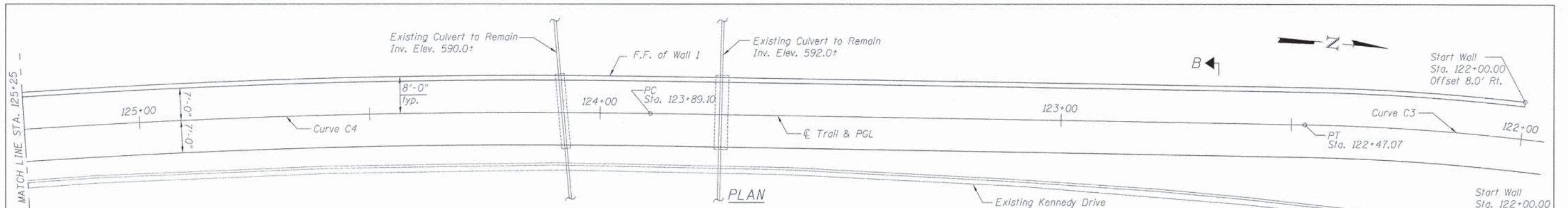
1. Design criteria and construction requirements of Precast Modular Retaining Wall shall conform to requirements of the latest IDOT Guide Bridge Special Provisions (GBSP) No. 65 "PRECAST MODULAR RETAINING WALL"
2. The wall system shown in section is conceptual and details will vary based on the actual wall supplied. The wall system supplier shall submit complete design calculations and shop drawings of the precast modular retaining wall signed and sealed by an Illinois Licensed Structural Engineer to Illinois Department of Transportation for approval prior to commencement of construction.
3. Soil bearing resistance must be verified in the field by the Engineer during the foundation excavation to ensure that the precast modular retaining wall is founded on suitable soil with a minimum factored bearing resistance of 2,000 psf. The maximum applied equivalent uniform bearing pressure under each module width shall not exceed the factored bearing resistance of 2,000 psf for foundation on the fill, if the leveling pad is set below Elev. 593.6, in the existing clay layer, maximum applied equivalent uniform bearing pressure shall not exceed the factored bearing resistance of 5,000 psf.
4. 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.
5. See Sheet S-01 for horizontal and vertical curve data.
6. Bicycle railing to be mounted on T/Wall full length of Wall 1 and Wall 2. See Sheet S-12 details.
7. See Roadway Drawings for trail pavement and subgrade details.

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12 TH FLOOR  
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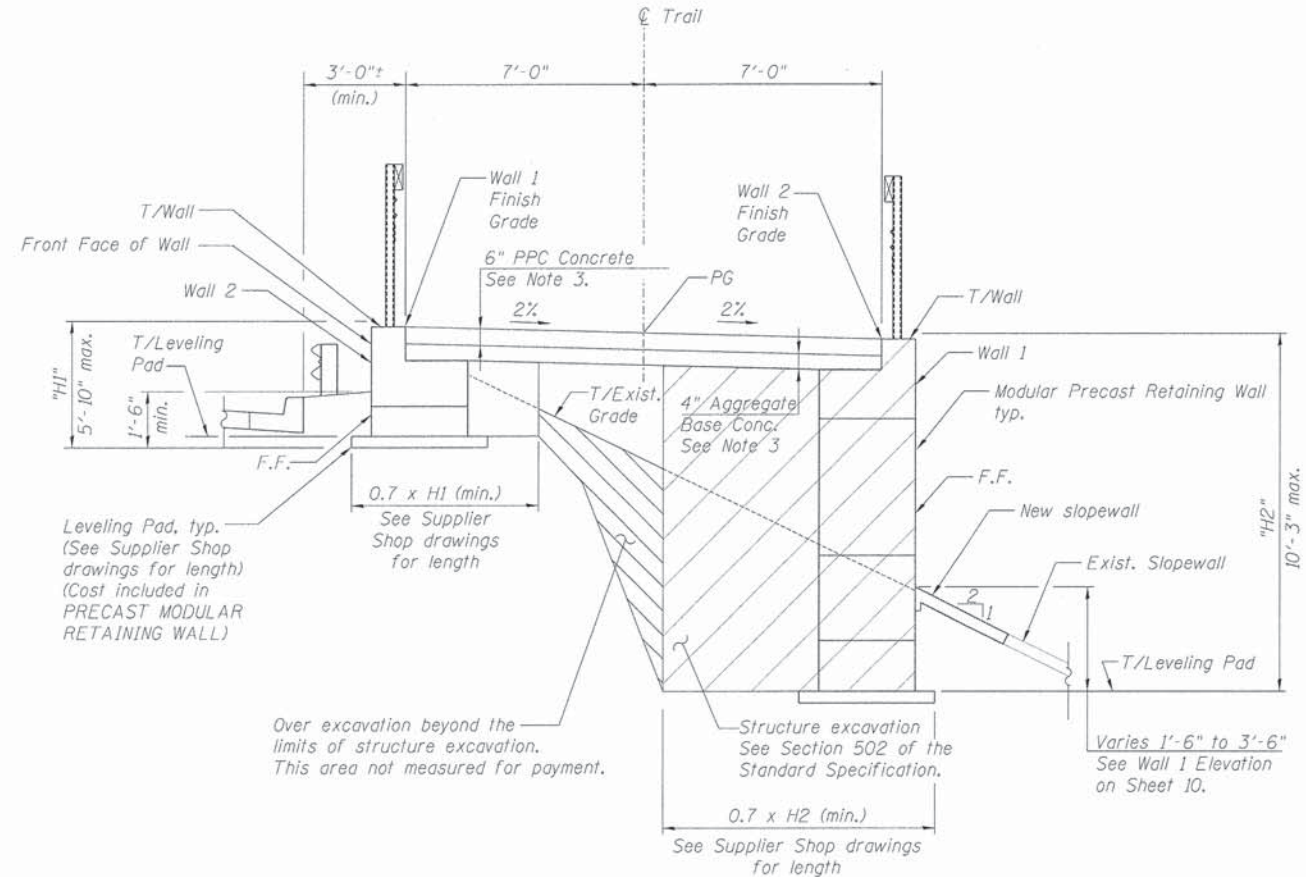
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

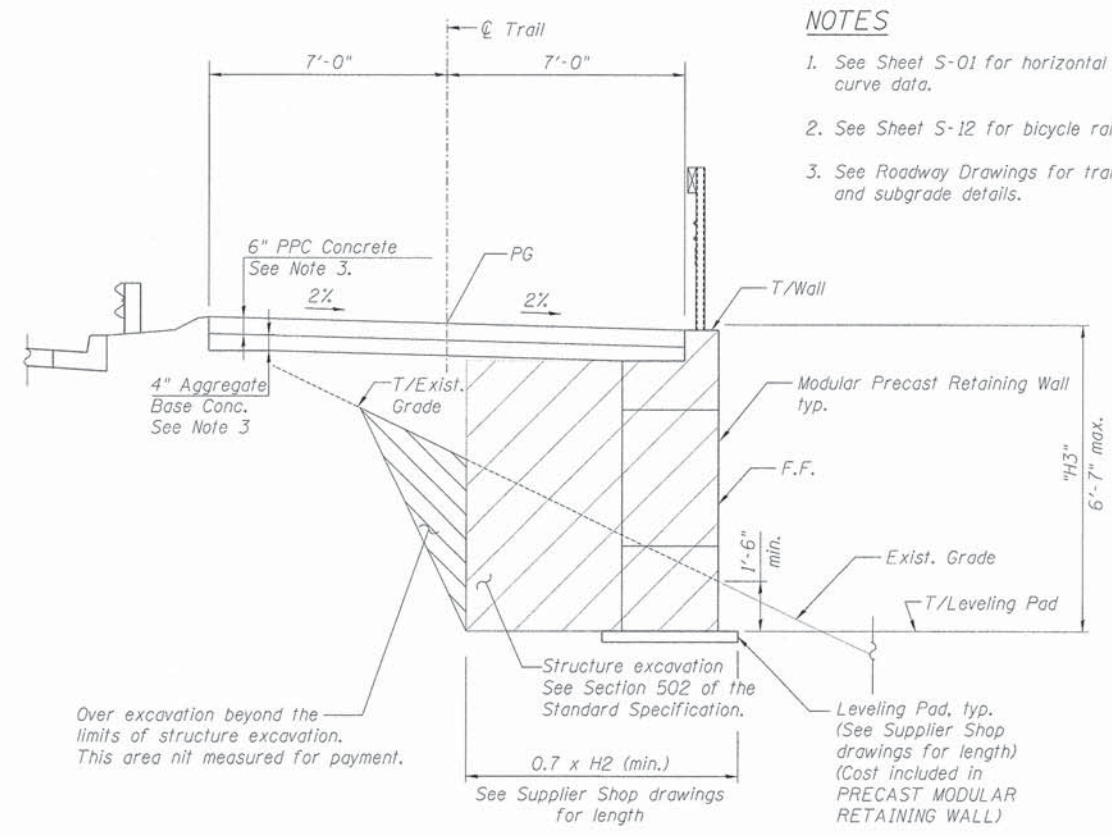
<b>RETAINING WALLS</b>		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
<b>PLAN &amp; ELEVATION I</b>			10-00276-01-BT	KANKAKEE	25	21
SHEET NO. 10 OF 14 SHEETS		CONTRACT NO. 87623				
ILLINOIS FED. AID PROJECT						



**WALL 1 ELEVATION**  
(Looking at F.F. of wall)



**SECTION A-A**  
See sheet S-10 for location.



**SECTION B-B**

**NOTES**

1. See Sheet S-01 for horizontal & vertical curve data.
2. See Sheet S-12 for bicycle railing details.
3. See Roadway Drawings for trail pavement and subgrade details.

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H. W. LOCHNER, INC.  
225 WEST WASHINGTON STREET  
12 TH FLOOR  
CHICAGO, ILLINOIS 60606

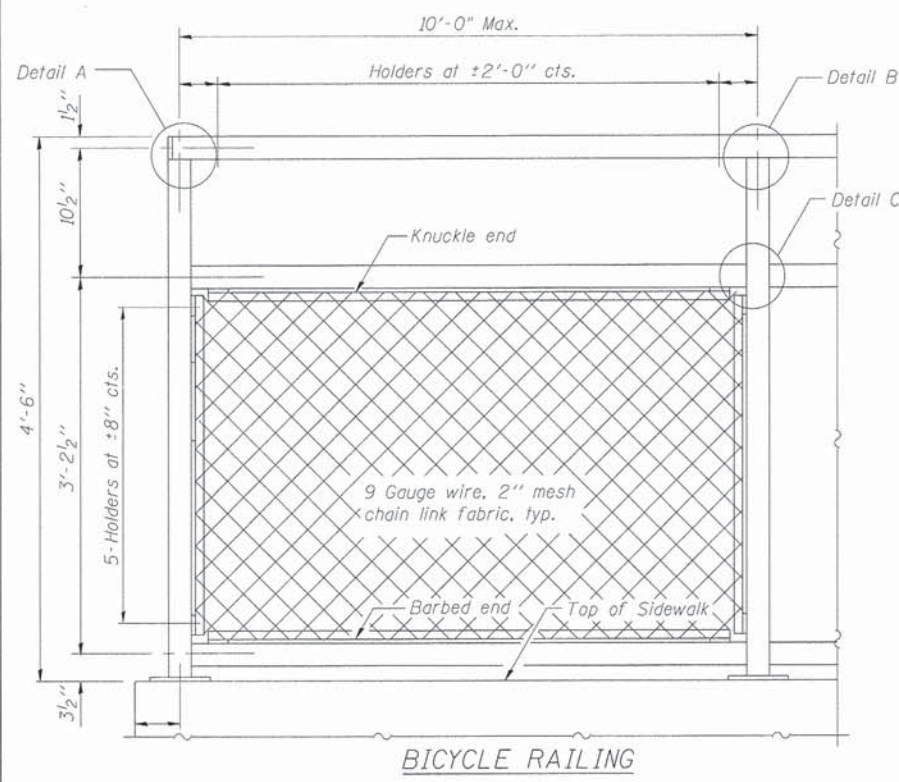
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

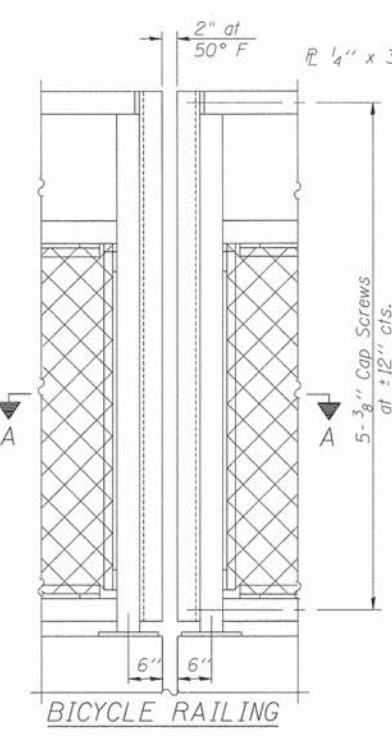
**RETAINING WALLS**  
**PLAN & ELEVATION II**

SHEET NO. 11 OF 14 SHEETS

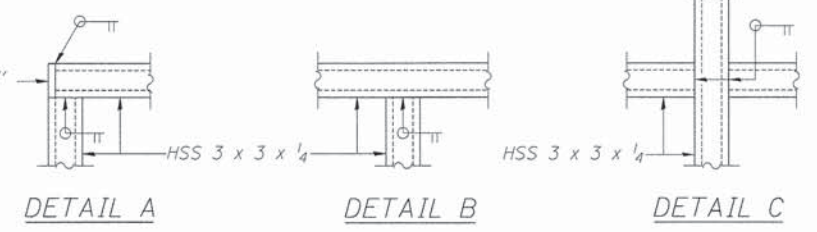
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10-00276-01-BT	KANKAKEE	25	22
CONTRACT NO. 87623			ILLINOIS FED. AID PROJECT	



**BICYCLE RAILING**

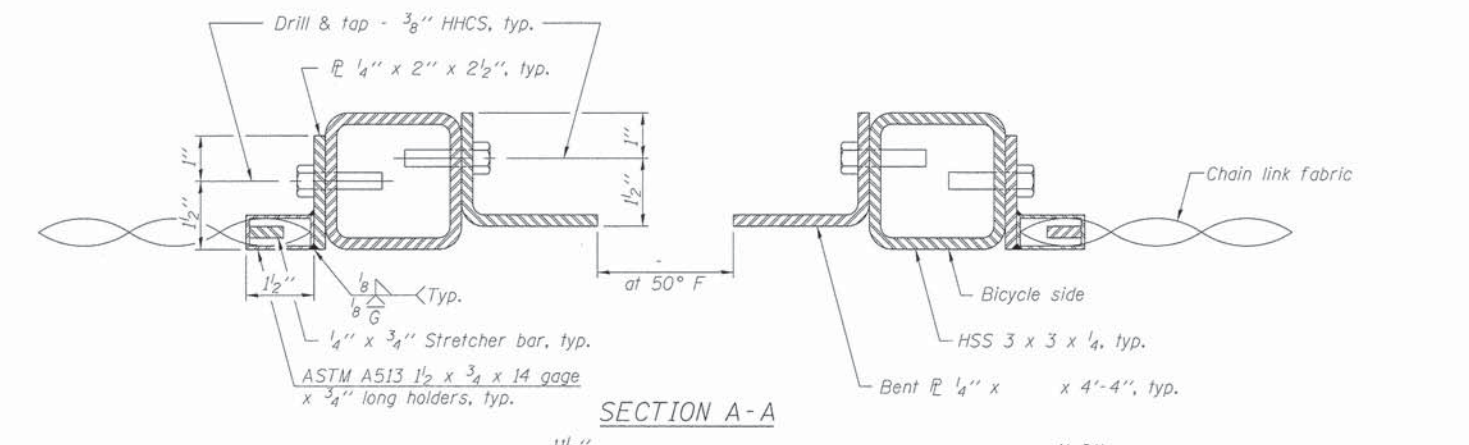


**BICYCLE RAILING**

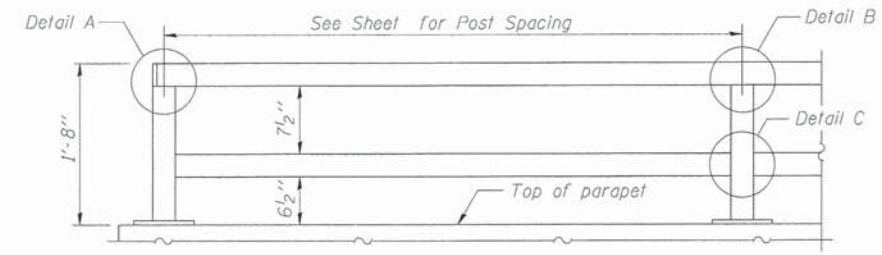


**DETAIL A      DETAIL B      DETAIL C**

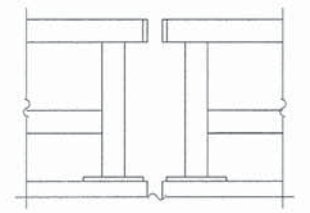
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.



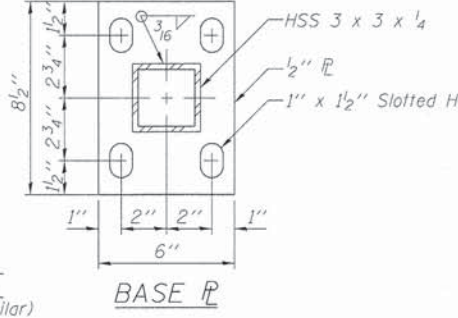
**SECTION A-A**



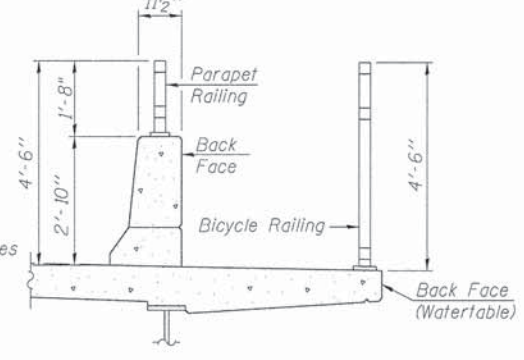
**PARAPET RAILING  
ELEVATION  
(Inside Face of Two Element Rail)**



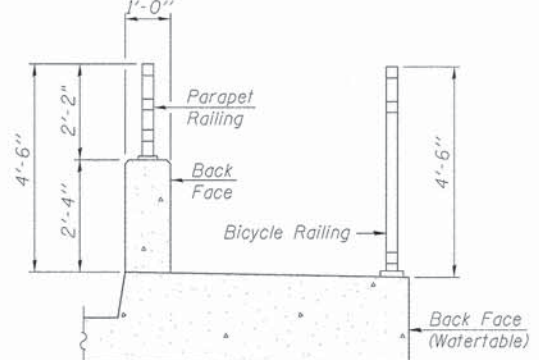
**PARAPET RAILING  
ELEVATION AT EXPANSION JOINT  
(Two Element Rail Shown - Three Element Rail Similar)**



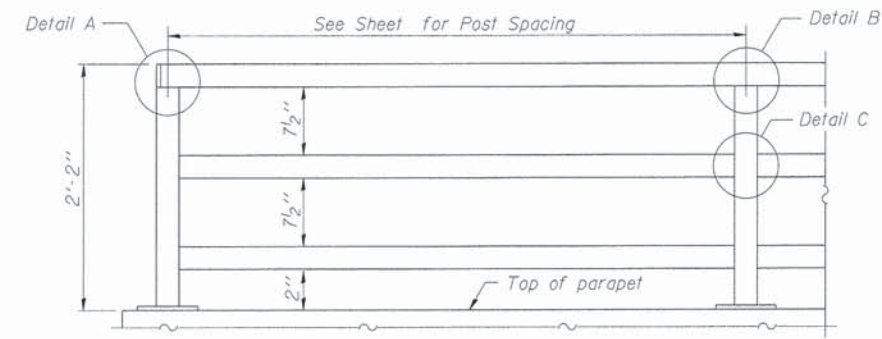
**BASE PL**



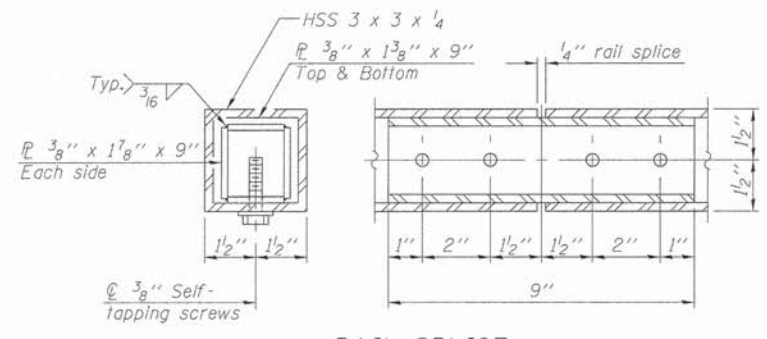
**SECTION THRU DECK**



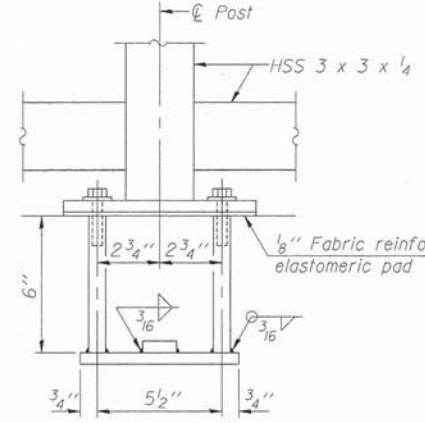
**SECTION THRU SIDEWALK**



**PARAPET RAILING  
ELEVATION  
(Inside Face of Three Element Rail)**



**RAIL SPLICE**



**ANCHOR BOLT DETAILS**

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

**BILL OF MATERIAL**

Item	Unit	Quantity
Bicycle Railing	Foot	799.8

- NOTES**
1. See Sheet S-05 for Section thru West Abutment Wingwall.
  2. See Sheet S-09 for Section thru East Abutment Wingwalls.
  3. See Sheet S-11 for Sections thru Retaining Walls.

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12 TH FLOOR  
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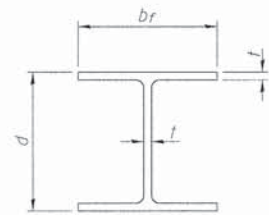
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BICYCLE RAILING**

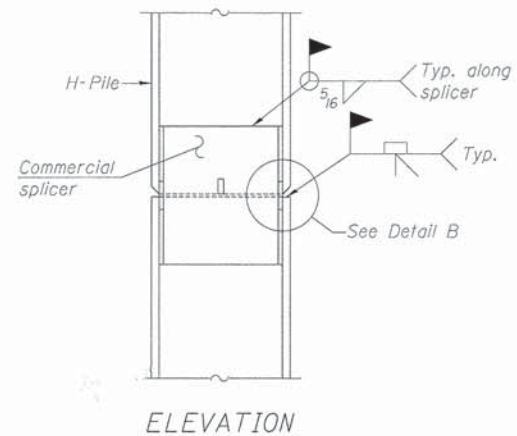
SHEET NO. 12 OF 14 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10-00276-01-BT	KANKAKEE	25	23
			CONTRACT NO. 87623	
ILLINOIS FED. AID PROJECT				

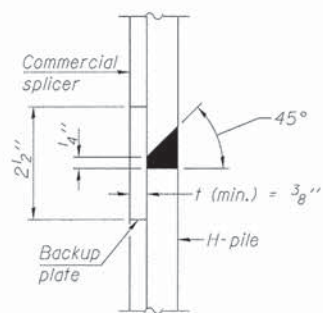


STEEL PILE TABLE

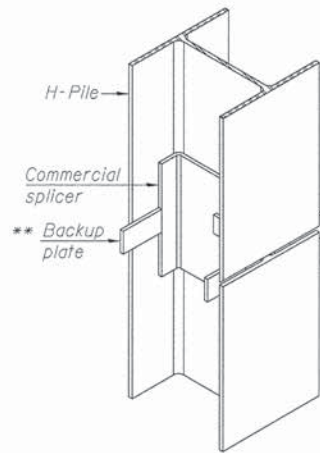
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION

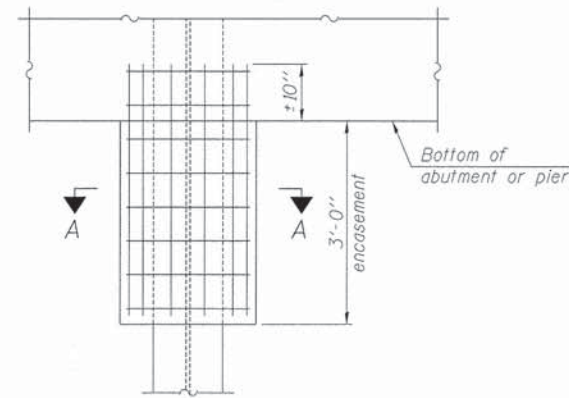


DETAIL "B"



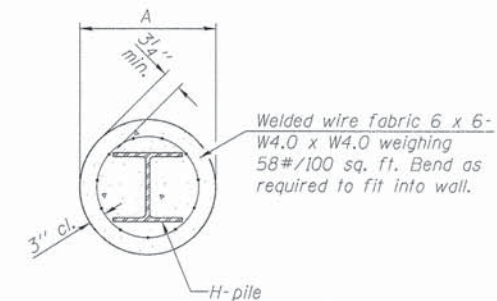
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



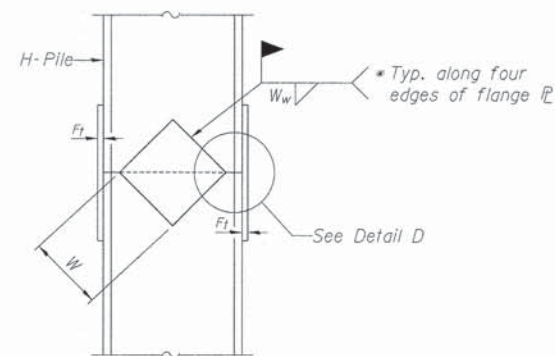
ELEVATION

PILE ENCASEMENT

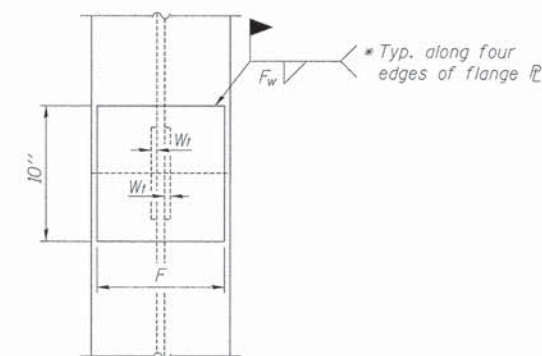


SECTION A-A

Note:  
Forms for encasement may be omitted when soil conditions permit.

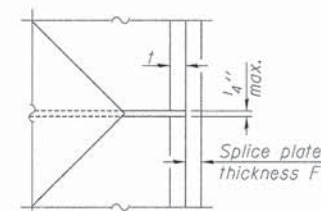


ELEVATION



END VIEW

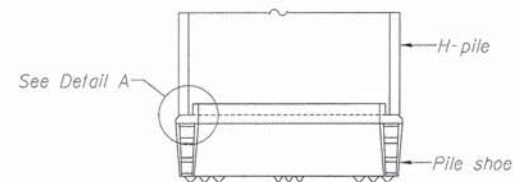
Designation	F	F <sub>t</sub>	F <sub>w</sub>	W	W <sub>1</sub>	W <sub>w</sub>
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"



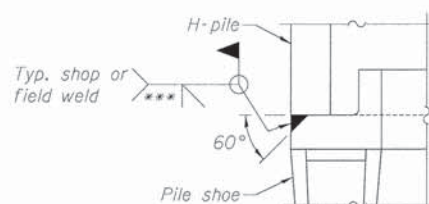
DETAIL D

WELDED PLATE FIELD SPLICE

Note:  
The steel H-piles shall be according to AASHTO M270 Grade 50.

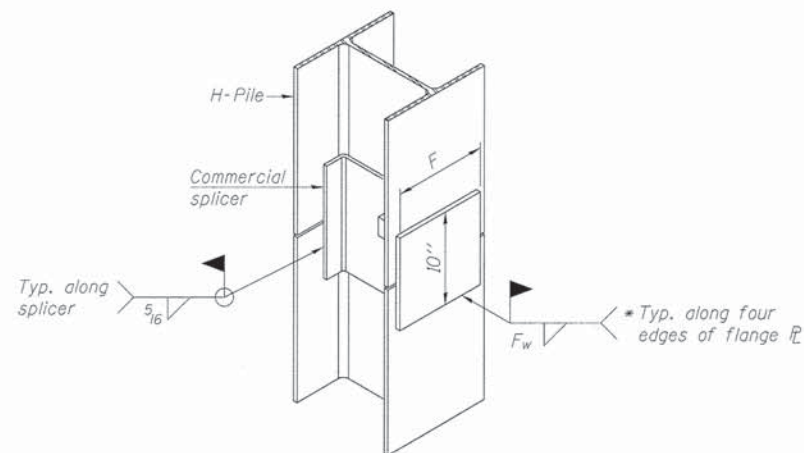


ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

- \* Interrupt welds 1/4" from end of web and/or each flange.
- \*\* Remove portions of backup plates that extend outside the flanges.
- \*\*\* Weld size per pile shoe manufacturer (5/16" min.).

I:\CH1\PL1\20260418\Design\Structure\4910-15-HP.dgn

F-HP  
**LOCHNER**  
H. W. LOCHNER, INC.  
225 WEST WASHINGTON STREET  
12 TH FLOOR  
CHICAGO, ILLINOIS 60606

USER NAME = 7-1-10	DESIGNED -	REVISIONS
FILE NAME = 4910-15-HP.dgn	CHECKED -	REVISIONS
PLOT SCALE =	DRAWN -	REVISIONS
PLOT DATE =	CHECKED -	REVISIONS

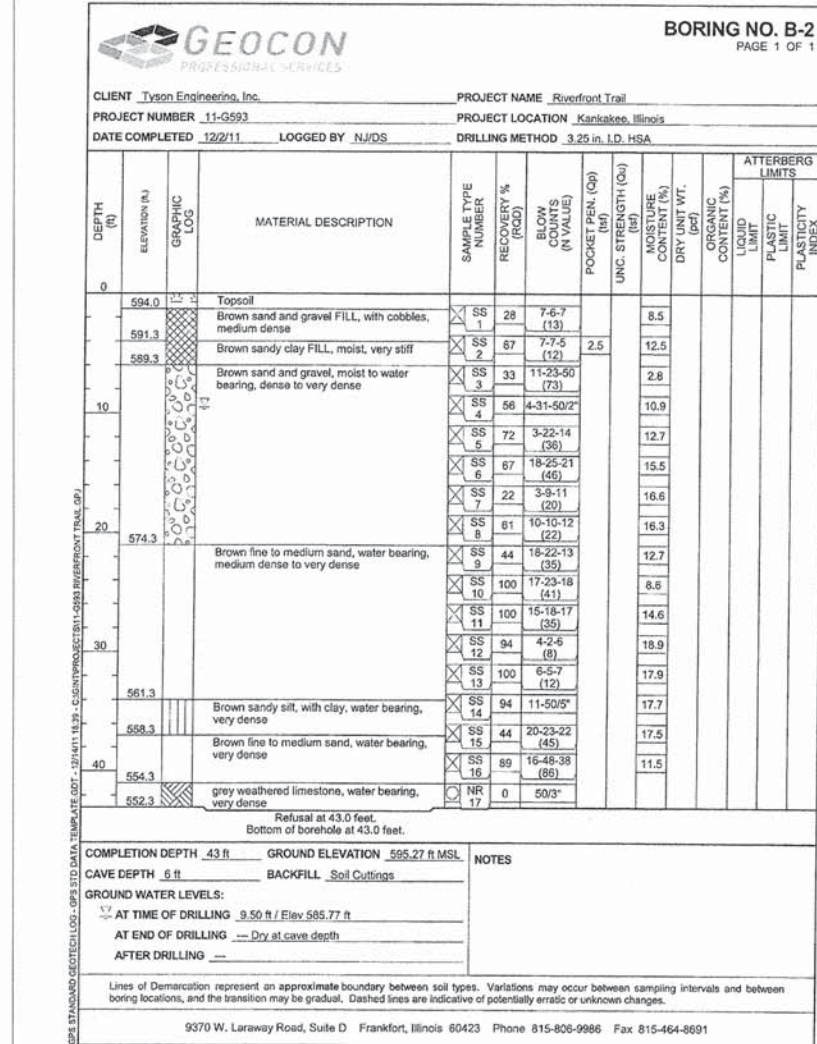
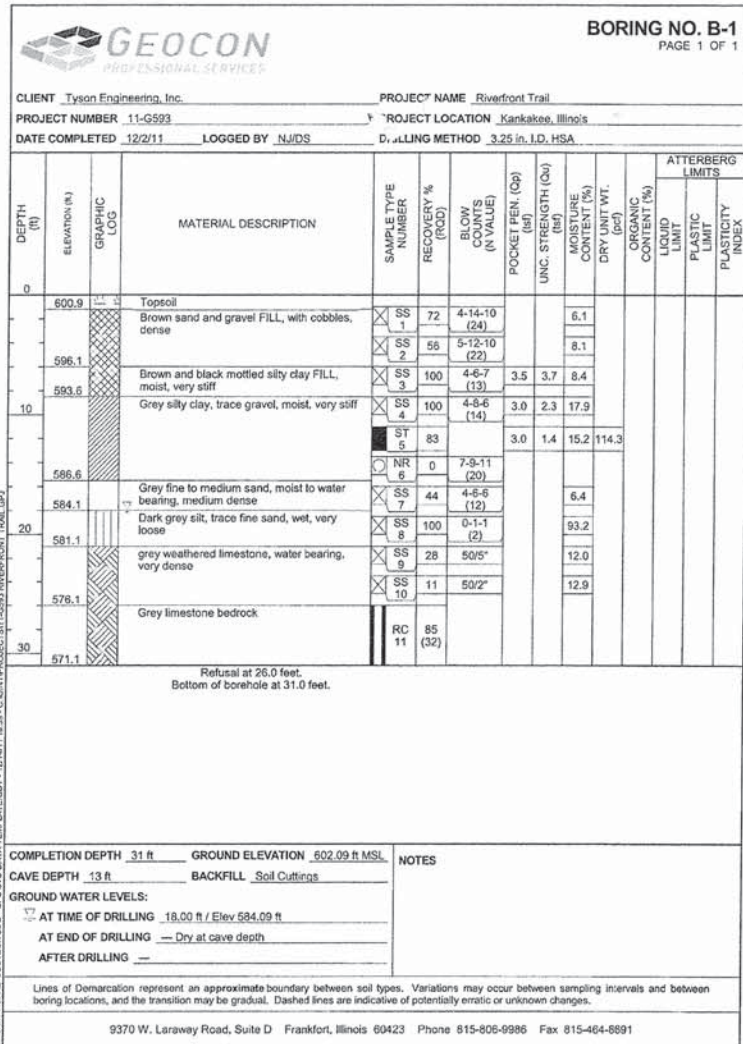
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PILE DETAILS

SHEET NO. 13 OF 14 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10-00276-01-BT	KANKAKEE	25	24
CONTRACT NO. 87623			ILLINOIS FED. AID PROJECT	





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**LOCHNER**  
H. W. LOCHNER, INC.  
225 WEST WASHINGTON STREET  
12 TH FLOOR  
CHICAGO, ILLINOIS 60606

USER NAME =	DESIGNED -	REVISED -
FILE NAME = 4910-16-SBL.DGN	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOGS**

SHEET NO. 14 OF 14 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	10-00276-01-BT	KANKAKEE	25	25
CONTRACT NO. 87623			ILLINOIS FED. AID PROJECT	