#### 11-17-2017 LETTING ITEM 039

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COVER SHEET GENERAL NOTES/LOCATION MAP SUMMARY OF QUANTITIES TYPICAL SECTIONS SCHEDULES OF QUANTITIES TIE POINTS REMOVAL SHEETS PLAN AND PROFILE STAGE CONSTRUCTION EROSION CONTROL SHEETS ROW PLAN SHEET PROPOSED STRUCTURE PLANS 006-0187 EXISTING STRUCTURE PLANS DETAILS CROSS SECTIONS

#### LIST OF ILLINOIS DOT HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420401-12	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
482011-03	HMA SHOULDER STRIPS/SHOULDERS WITH RS OR WIDENING & RS PROJECTS
515001-03	NAME PLATE FOR BRIDGES
630001-11	STEEL PLATE BEAM GUARDRAIL
630201-07	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-07	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-15	TRAFFIC BARRIER TERMINAL, TYPE 6
635001-02	DELINEATORS
666001-01	RIGHT-OF-WAY MARKERS
701001-02	OFF-ROAD OPERATIONS 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05	OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM
	PAVEMENT EDGE
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY,
	FOR SPEEDS ≥ 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701321-16	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701901-06	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720011-01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

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

J.U.L.I.E. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

PROJECT ENGINEER:DAVE ALEXANDER,P.E. UNIT CHIEF: PAT BRABOY, P.E.

## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

# PROPOSED HIGHWAY PLANS

FAP ROUTE 316 (IL 26) SECTION [116 BR] BR PROJECT NHPP-IIHT (478) BRIDGE REPLACEMENT (PROP.SN 006-0187) BUREAU COUNTY

C-93-159-14



CONTRACT NO. 66A19



DOUGLAS

#### RURAL OTHER ARTERIAL 2015 ADT = 3,200 P.V = 83% S.U. = 4% M.U. = 13% STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION UBMITTED 20/713/20/7REGIONAL ENGINEER TO DESIGN AND ENVIRONMENT 20/713/20/720/713/20/720/713/20/713/20/720/713/20/713/20/720/713/20/713/20/713/20/710/7

LOCATION OF SECTION INDICATED THUS: -

## PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

#### GENERAL NOTES

THE THICKNESS OF HMA SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA IS PLACED.

THE HMA SURFACE OF ALL MAILBOX TURNOUTS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES, AND SIDE ROADS SHALL BE MADE NEATLY, IN A WORKMANLIKE MANNER, AND SHALL ACCURATELY CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. IF REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL SAW CUT THE HMA SURFACE TO CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. THIS WORK WILL BE INCLUDED IN THE COST OF THE HMA SURFACE.

EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.

BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

FOR STABILIZATION, ALL TYPE III BARRICADES WILL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.

ONLY THOSE TREES DESIGNATED BY THE ENGINEER OR LISTED IN THE TREE REMOVAL SCHEDULE SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.

THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES ( 100 MILLIMETERS) IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF FURNISHED EXCAVATION

ON EXISTING PAVEMENT WHICH MAY BE SUPERELEVATED, THE NEW HMA PAVEMENT SHALL BE BUILT WITH THE SAME SUPERELEVATION UNLESS NEW SUPERELEVATION RATES ARE GIVEN ON THE PLANS.

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER

SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05	TONS / CU YD
HMA RESURFACING	112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKING	10	FT /100 FT OF APPLICATION
MIX FOR CRACKS, JTS & FLGWYS	0.0003	TONS / SQ YD
LEVEL BINDER (HAND METHOD)	0.0005	TONS / SQ YD
SUPPLEMENTAL WATERING	3	GAL / SQ YD / APPLICATION

THE CONTRACTOR SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.

COMMITMENTS:

1. PERPETUATE THE BERM ALONG NORTH BANK OF CREEK, WEST OF IL 26.

- 2. PLACE HIGH VISIBILITY EROSION CONTROL FENCE ALONG THE RIGHT OF WAY IN THE NORTHEAST QUADRANT OF THE PROJECT FROM STA 1572+00 (45' LT) TO STA 1573+50 (25' LT) TO STA 1574+50 (25' LT) TO STA 1575+50 (45' LT) TO STA 1576+00 (60' LT) TO PREVENT IMPACTS TO THE WETLAND SITE.
- 3. ENVIRONMENTAL COORDINATION
- 4. NO TREES WILL BE ALLOWED TO BE REMOVED FROM APRIL 1ST TO SEPTEMBER 30TH OF ANY GIVEN YEAR.
- 5. CLEAR THE DEBRIS FROM THE CHANNEL DIRECTLY ADJACENT TO THE STRUCTURE TO ALLOW FOR FREE-FLOWING CONDITIONS.

6. IDNR PERMIT

7. 404 PERMIT



## LOCATION MAP

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BEGIN JOB STA. 1575 + 50 IL 26

### EXIST. SN 006-0136 PROP. SN 006-0187

#### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT THREE AS BUILT INFORMATION



				CONSTR	UCTION
<b></b>				RURAL	80/20
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0004	PROP.
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	360	360	
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)		705	705	
20101000	TEMPORARY FENCE	FOOT	402	402	
20200100	EARTH EXCAVATION		177	177	
20300100	CHANNEL EXCAVATION	CU YD	1287	1287	
20400800	FURNISHED EXCAVATION	CU YD	2560	2560	
25000210	SEEDING, CLASS 2A	ACRE	0.93	0.93	
		POUND		P.4	
25000400	NITKOGEN PERTILIZER NUTRIENT	round	04	04	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	84	84	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	84	84	
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SO YD	4532	4532	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	279	279	
		FOOT	48	48	
28000305			40	*0	
28000400	PERIMETER EROSION BARRIER	FOOT	2211	2211	
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					T	RURAL	80/20 FED/STATE
	CODE				TOTAL	0004	0011
	NO.		ITEM	UNIT	QUANTITY		PROP. S.N.006-0187
	28100105	STONE RIPRAP, CLASS A3		SQ YD	109	109	
			·	-			
	28100107	STONE RIPRAP, CLASS A4		SQ YD	1010	- -	1010
	28200200	FILTER FABRIC		SQ YD	1119	109	1010
					- <b>-</b>		
	40600400	MIXTURE FOR CRACKS, JOI	NTS, AND FLANGEWAYS	TON	0.7	0.7	
			· · ···· ·				
	40600982	HOT-MIX ASPHALT SURFAC	E REMOVAL - BUTT JOINT	SQ YD	717	717	
			······································				
	40603080	HOT-MIX ASPHALT BINDER	COURSE. IL-19.0. N50	TON	914	914	
		· · · ·	·····				
	40603310	HOT-MIX ASPHALT SURFAC	TE COLIRSE MIX "C" N50	TON	189	189	
	40003310					102	
	40500100			POUND	1400	1400	
	40700100	BITUMINOUS MATERIALS (1		POUND	1466	1400	
	42000080	PAVEMENT CONNECTOR (PO	CC) FOR BRIDGE APPROACH SLAB	SQ YD	54	54	
	44000100	PAVEMENT REMOVAL		SQ YD	326	326	
	44004250	PAVED SHOULDER REMOVA	L	SQ YD	212	212	
	48101200	AGGREGATE SHOULDERS, T	ТҮРЕ В	TON	23	23	
	48203033	HOT-MIX ASPHALT SHOULD	DERS, 9"	SQ YD	904	904	
	50100100	REMOVAL OF EXISTING STR	UCTURES	EACH	1		1
	L	I				ı	
s\c	details.dgn	REVISED - REVISED -	STATE OF ILLINOIS			SUMMA	ARY OF QUANTITIES
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CODE         TTEM         UNIT         TOTAL         OOG4         0011           NO.         ITEM         UNIT         UNIT         PROPASION         0011           S4200100         STRICTURE EXCAVATION         OU VID         166         Image: Construction of the			ł			1	RURAL	80/20 FEDISTATE
NO.         THEM         UNIT         QUANTIX         PROF. S.N.005-011           99200100         STRUCTURE EXCAVATION         CU YD         166         356           99200100         COMPRIDAM (TYPE 2) (LOCATION - 1)         EACH         1         1           99201121         COPTREDAM (TYPE 2) (LOCATION - 1)         EACH         1         1         1           9020122         COPTREDAM (TYPE 2) (LOCATION - 2)         EACH         1         1         1           9020123         COPTREDAM (TYPE 2) (LOCATION - 2)         EACH         1         1         1           9020123         COPTREDAM (TYPE 2) (LOCATION - 2)         EACH         1         1         1           9020123         CONCRETE STRUCTURES         CU YD         384.3         944.3         946.3           90300235         CONCRETE STRUCTURE         CU YD         384.3         946.3         1123           90300236         ENHANCE MERK ENKLANING         SQ YD         1323         1323         1323           90300236         ENHANCE MERK ENKLANING         SQ YD         1343         946.3         143           90300236         FROTECTIVE COAT         SQ YD         13556         1656         1656         16530		CODE				TOTAL	ROADWAY 0004	BRIDGE 0011
GOBULIDIO         STRUCTURE EXCAVATION         CU YD         154         154           GOBULIDIO         CU YD         222         222           SOB00300         COPPERDAM EXCAVATION         CU YD         222         222           SOB00121         COPPERDAM EXCAVATION         CU YD         222         222           SOB01221         COPPERDAM EXCAVATION         CU YD         222         222           SOB01221         COPPERDAM EXCAVATION         CU YD         224         222           SOB01231         COPPERDAM EXCAVATION         CU YD         224         222           SOB0124         COPPERDAM EXCAVATION         CU YD         224         222           SOB0125         CONCRETE STRUCTURES         CU YD         224.0         224.0           SOB0226         CONCRETE SUPERSTRUCTURE         CU YD         224.0         224.0           SOB0205         CONCRETE SUPERSTRUCTURE         SUP         1555         133.3           SOB0206         ROTECTIVE COAT         SQ YD         156.0         118.0           SOB0206         ROTECTIVE COAT         SQ YD         168.0         131.00           SOB0206         RUTESTRUCTURE COATED         FACH         121.00         131.00		NO.		ITEM	UNIT	QUANTITY		PROP. S.N.006-0187
DOUGOUS         STOCTORE EXAMPLIAN         CC ID         236         136           00200300         COPENDIAM EXCAVATION         CU YD         222         222           00201302         COPENDIAM EXCAVATION         CU YD         222         222           00201302         COPENDIAM EXCAVATION         CU YD         222         222           0020121         COPENDIAM EXCAVATION         I         1         1           0020122         COPENDIAM EXCAVATION - 1)         EACH         1         1         1           0020122         COPENDIAM (TYPE 2) (LOCATION - 2)         FACH         1         1         1           0020122         COPENDIAM (TYPE 2) (LOCATION - 2)         FACH         1         1         1           00200225         CONCRETE STRUCTURES         CU YD         228.6         238.6         238.6           00200260         CONCRETE SUPERTRUCTURE         CU YD         344.3         344.3         344.3           00300267         ONNETTIC COAT         SQ YD         1523         1323         1323           003002680         PROTECTIVE COAT         SQ YD         1524         1324         1324           00300205         STED SHEAR CONNECTORS TAUCTURAL STEEL         1SUM		50000100			CUND	150		150
SERVICE         CU YD         222         222           SERVICE         CU YD         222         222           SERVICE         COPFERDAM EXCAVATION         CU YD         222         222           SERVICE         COPFERDAM EXCAVATION - 1)         EACH         1         1           SERVICE         COPFERDAM (TYPE 2) (LOCATION - 2)         EACH         1         1           SERVICE         COPFERDAM (TYPE 2) (LOCATION - 2)         EACH         1         1         1           SERVICE         COUYD         238.6         288.5         288.5         288.5           SERVICE         COUYD         238.6         288.5         288.5           SERVICE         CU YD         384.3         288.5         354.3           SERVICE         CU YD         384.3         288.5         354.3           SERVICE         CONCRETE SUBBRSTRICTURES         CU YD         384.3         354.3           SERVICE         SO YD         1525         1323         1323           SERVICE         SO YD         1525         1526         154.6           SERVICE         SO YD         1535         1526         154.6           SERVICE         FROTECTIVE COAT         S		30200100	STRUCTURE EXCAVATION			061		156
Display         Control of Control		50200300	COFFERDAM EXCAVATION			999		222
9201121         CUPURDAM (TYPE 2) (LOCATION - 1)         EACH         1         1           50201122         COPERDAM (TYPE 2) (LOCATION - 2)         EACH         1         1           50201122         COPERDAM (TYPE 2) (LOCATION - 2)         EACH         1         1           5020125         CONCRETE STRUCTURES         CU YD         538.6         2.58.6           50300255         CONCRETE STRUCTURES         CU YD         584.3		50200300				222		
Summary Base         State of the stat		50201121	COFFERDAM (TYPE 2) (LOC	CATION - 1)	EACH	1		1
69201122         COPPERDAM (TYPE 2) (LOCATION - 2)         EACH         1         1           6920122         CUNCRETE STRUCTURES         CU         VD         238.6         238.6           59300225         CUNCRETE STRUCTURE         CU         VD         238.6         238.6           59300255         CONCRETE SUPERSTRUCTURE         CU         VD         384.3         386.3           59300260         BRIDGE DECK GROOVING         SQ YD         1528         1323           59300200         PROTECTIVE COAT         SQ YD         1566         16686           59300205         FURNISHING AND ERECTING STRUCTURAL STEEL         LSUM         1         1           59600205         FURNISHING AND ERECTING STRUCTURAL STEEL         LSUM         1         1           59600205         STUD SHEAR CONNECTORS         EACH         6512         6312           59800205         REINFORCEMENT BARS, EPOXY COATED         POUND         121300         121300           59807625         FURNISHING METAL SHELL PLES 16' X 0.375'         FOOT         1448         1444           51202205         DRIVING HELS         1000T         1443         1444           51202205         DRIVING HELS         STATE OF ILLINDIS         SUMMARY OF BUANTITIES								
Image: Status         Image: S		50201122	COFFERDAM (TYPE 2) (LOC	CATION - 2)	EACH	1		1
D0000225         COUCKETE STRUCTURES         CU YD         238.6         238.6           00000255         CONCRETE STRUCTURE         CU YD         384.3         384.3           00000255         CONCRETE SUPERSTRUCTURE         CU YD         384.3         384.3           00000250         DECK GROOVING         SQ YD         1523         1523           00000260         BRIDGE DECK GROOVING         SQ YD         1523         1636           00000260         PROTECTIVE COAT         SQ YD         1636         1636           0000025         FURNISHINO AND ERECTING STRUCTURAL STEEL         LSUM         1         1           05000060         STUD SHEAR CONNECTORS         EACH         6312         6312           05000050         STUD SHEAR CONNECTORS         EACH         6312         6312           05000050         STUD SHEAR CONNECTORS         EACH         1103         1103           05000050         REINFORCEMEDNT BARS, EPOXY COATED         POUND         121300         121300           05000515         SAR SPLICERS         EACH         1103         1103           5120/26/96[7         FURNISHING METAL SHELL PILES 16" X 0.375"         FOOT         1443         1443           12120205         DRIVING P								
Image: State of First State of Fillinois         Form         State of Fillinois         State of Fillinois           51202005         CONCRETE SUPERSTRUCTURE         CU YD         384.3         384.3           50300200         BRIDGE DECK GROOVING         SQ YD         1323         1323           50300200         BRIDGE DECK GROOVING         SQ YD         1825         1323           50300200         PROTECTIVE COAT         SQ YD         1836         1636           50300300         PROTECTIVE COAT         SQ YD         1836         1636           50300300         PROTECTIVE COAT         SQ YD         1836         1636           50300305         FURNISHING AND ERECTING STRUCTURAL STEEL         LSUM         1         1         1           50500505         STUD SHEAR CONNECTORS         EACH         6312         6312           50600205         REINFORCEMENT BARS, EPOXY COATED         POUND         121300         121300           50600205         REINFORCEMENT BARS, EPOXY COATED         FOOT         1443         1443           50800205         REINFORCEMENT BARS, EPOXY COATED         FOOT         1443         1443           50800205         REINFORCEMENT BARS, EPOXY COATED         FOOT         1443         1443		50300225	CONCRETE STRUCTURES		CU YD	238.6		238.6
50300255         CONCRETE SUPERSTRUCTURE         CU YD         384.3         384.3           50300260         BRIDGE DECK GROOVING         SQ YD         132.3         132.3           50300260         BRIDGE DECK GROOVING         SQ YD         132.3         132.3           50300260         BRIDGE DECK GROOVING         SQ YD         163.6         163.6           50300300         PROTECTIVE COAT         SQ YD         163.6         163.6           50300300         FURNISHINO AND ERECTING STRUCTURAL STEEL         LSUM         1         1           50300305         STUD SHEAR CONNECTORS         EACH         6512         6312           50800305         REINFORCEMENT BARS, EPOXY COATED         POUND         121300         1103           50800315         BAR SPLICERS         EACH         1103         1103           513002050         DRIVING PILES 16' X 0.375'								
S0800260     BRIDGE DECK GROOVING     SQ YD     1823     1823       S0800300     PROTECTIVE COAT     SQ YD     1636     1626       S0800105     FURNISHING AND ERECTING STRUCTURAL STEEL     LSUM     1     1       S0800205     FURNISHING AND ERECTING STRUCTURAL STEEL     LSUM     1     1       S0800205     STUD SHEAR CONNECTORS     EACH     6312     6312       S0800205     REINFORCEMENT BARS, EPOXY COATED     POUND     121300     121300       S0800205     REINFORCEMENT BARS, EPOXY COATED     POUND     121300     121300       S0800205     REINFORCEMENT BARS, EPOXY COATED     POUND     121300     121300       S0800205     REINFORCEMENT BARS, EPOXY COATED     POUND     121300     1103       S0800205     REINFORCEMENT BARS, EPOXY COATED     POUND     121300     121300       S0800205     REINFORCEMENT BARS, EPOXY COATED     POUND     121300     1443       S0800205     REINFORCEMENT BARS, EPOXY COATED     POUND     1443     1443       S0800205     REINFORCEMENT BARS, EPOXY COATED     POOT     1443     1443       S0800205     REINFORCEMENT BARS, EPOXY COATED     POOT     1443     1443       S1202205     DRIVING PILES     FOOT     1443     1443		50300255	CONCRETE SUPERSTRUCTU	RE	CU YD	384.3		
56300260         BRDGE DECK GROOVING         SQ YD         1323         1323           50300300         PROTECTIVE COAT         SQ YD         1636         1636           50300300         PROTECTIVE COAT         SQ YD         1636         1636           50500105         FURNISHING AND ERECTING STRUCTURAL STEEL         LSUM         1         1           50500105         FURNISHING AND ERECTING STRUCTURAL STEEL         LSUM         1         1           50500505         STUD SHEAR CONNECTORS         EACH         6812         68312           50600505         STUD SHEAR CONNECTORS         EACH         6812         68312           50800205         REINFORCEMENT BARS, EPOXY COATED         POUND         121300         121300           50800515         BAR SPLICERS         EACH         1103         1103           50800515         BAR SPLICERS         EACH         1103         11443           51202305         DRIVING PILES 16° X 0.375°         FOOT         1443         1443           51202305         DRIVING PILES         STATE OF ILLINOIS         SIMMARY OF DUANTITIES								
SQ YD         1636         1636           50300300         PROTECTIVE COAT         SQ YD         1636         1636           50500105         FURNISHING AND ERECTING STRUCTURAL STEEL         LSUM         1         1           50500505         STUD SHEAR CONNECTORS         EACH         6312         6312           50500505         STUD SHEAR CONNECTORS         EACH         6312         6312           50800205         REINFORCEMENT BARS, EPOXY COATED         POU'ND         121300         121300           50800515         BAR SPLICERS         EACH         1103         1103           50800515         BAR SPLICERS         EACH         1103         1103           50800515         BAR SPLICERS         EACH         1103         1443           50800515         BAR SPLICERS         EACH         1103         1103           50800515         DRIVING METAL SHELL PILES 16" X 0.375"         FOOT         1443         1443           51202305         DRIVING PILES         FOOT         1443         1443           1443         1443         1443         1443           1450         EVISIO         STATE OF ILLINDIS         SUBMARY OF DUANTITIES		50300260	BRIDGE DECK GROOVING		SQ YD	1323		1323
50300300         PROTECTIVE COAT         SQ YD         1636         1636           Image: Sold of the section of the								
S0500105       FURNISHING AND ERECTING STRUCTURAL STEEL       LSUM       1       1         S0500105       FURNISHING AND ERECTING STRUCTURAL STEEL       LSUM       1       1         S0500505       STUD SHEAR CONNECTORS       EACH       6312       6312         S0500205       REINFORCEMENT BARS, EPOXY COATED       POUND       121300       121300         S0800205       REINFORCEMENT BARS, EPOXY COATED       POUND       121300       121300         S0800205       REINFORCEMENT BARS, EPOXY COATED       POUND       121300       121300         S0800205       REINFORCEMENT BARS, EPOXY COATED       POUND       121300       121300         S0800515       BAR SPLICERS       EACH       1103       1103         S0800515       BAR SPLICERS       FOOT       1443       1443         S1202305       DRIVING PILES 16" X 0.375"       FOOT       1443       1443         S1202305       DRIVING PILES       STATE OF ILLINOIS       SUMMARY OF OLIANTITIES		50300300	PROTECTIVE COAT		SQ YD	1636		1636
50500105         FURNISHING AND ERECTING STRUCTURAL STEEL         L.SUM         1         1           1         1         1         1         1         1           50500505         STUD SHEAR CONNECTORS         EACH         6312         6312         6312           50600205         REINFORCEMENT BARS, EPOXY COATED         POUND         121300         121300         121300           50600215         BAR SPLICERS         EACH         1103         1103         1103           50600515         BAR SPLICERS         EACH         1103         1103         1443           50600763         FURNISHING METAL SHELL PILES 16" X 0.375"         FOOT         1443         1443           51202305         DRIVING PILES         STATE OF ILLINOIS         STATE OF ILLINOIS         SUMMARY OF DUANTITIES								
Image: state of this state of the state of		50500105	FURNISHING AND ERECTING	G STRUCTURAL STEEL	LSUM	1		1
50500505       STUD SHEAR CONNECTORS       EACH       6312       6312         50500505       STUD SHEAR CONNECTORS       I       I       I       I         50500505       REINFORCEMENT BARS, EPOXY COATED       POUND       121300       121300         50500515       BAR SPLICERS       EACH       1103       1103         50600515       BAR SPLICERS       EACH       1103       1103         50600516       BAR SPLICERS       EACH       1103       1443         50600517       FURNISHING METAL SHELL PILES 16" X 0.375"       FOOT       1443       1443         51202305       DRIVING PILES       FOOT       1443       1443         51202305       DRIVING PILES       STATE OF ILLINOIS       SUMMARY OF OUANTITIES         Revised -       -       STATE OF ILLINOIS       SUMMARY OF OUANTITIES								
Image: State of ILLINOIS       REVISED -         REVISED -       REVISED -         REVISED -       STATE OF ILLINOIS         REVISED -       STATE OF ILLINOIS         REVISED -       STATE OF ILLINOIS         REVISED -       SIMMARY OF OUANTITIES		50500505	STUD SHEAR CONNECTORS		EACH	6312		6312
50800205         REINFORCEMENT BARS, EPOXY COATED         POUND         121300         121300           Image: State of state of state of target of tar								
Image: State of Millinois       REVISED -         REVISED -       REVISED -         REVISED -       STATE OF ILLINOIS         REVISED -       STATE OF ILLINOIS         REVISED -       STATE OF TRANSPORTATION		50800205	REINFORCEMENT BARS, EP	DXY COATED	POUND	121300		121300
D0000313     BAK SPLICERS     EACH     1103     1103       SiQ00963     FURNISHING METAL SHELL PILES 16" X 0.375"     FOOT     1443     1443       SiQ00963     FURNISHING METAL SHELL PILES 16" X 0.375"     FOOT     1443     1443       SiQ00963     DRIVING PILES     FOOT     1443     1443       Silphicer     FOOT     1443     1443       Silphicer     FOOT     1443     1443		F00005555	DAD ODLYCERC					-
Image: state		00800515	DAK SPEICERS		EACH	1103		1103
Image: State of illinois     State of illinois       REVISED -     STATE OF ILLINOIS       REVISED -     DEPARTMENT OF TRANSPORTATION		51200967	FURNISHING METAL SHELL	PILES 16" X 0.375"	FOOT	1443		1443
Image: state of state								
REVISED - sheeta\datasils.dgn REVISED - BEPARTMENT OF TRANSPORTATION SUMMARY OF OUANTITIES BEPARTMENT OF TRANSPORTATION		51202305	DRIVING PILES		FOOT	1443		1443
REVISED - ADsheets\details.dgn REVISED - REVISED - REVISED - DEPARTMENT OF TRANSPORTATION								
Ateets\details.dgn REVISED - STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		·	REVISED		<b>I</b>	· · · · · · · · · · · · · · · · · · ·	CLIRADA	
	Oshee	ets\details.dgn	REVISED - REVISED -	STATE OF ILLI	NOIS SPORTATION			TUS UF UVANIIIIEQ.

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	PLOT SCALE = 100.0000 17 m.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION			
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							[	CONSTRU	UCTION CODE				
								BURAI	80/20 FED/ST	ATC			
								ROADWAY	BRIDGE				
		CODE					TOTAL	0004	0011				
		NO.		ITEM	· · · · · · · · · · · · · · · · · · ·	UNIT	QUANTITY		PROP. S.N.006-	-0187			
		5100000	TEST DU C MET/			EACH	3		3				
		51203200				·							
		51500100	NAME PLATES			EACH	1		1				
				. <u>.</u>									
		52000110	PREFORMED JO	INT STRIP SEAL		FOOT	87		87				
		59100590	ANCHOP DOI TO	1″		EACH	48		48				
		32100320	ANCINA DULIS										
				· · · · · · · · · · · · · · · · · · ·									
		52200020	TEMPORARY SO	DIL RETENTION SYSTEM		SQ FT	485		485				
		59100100	GEOCOMPOSITI	E WALL DRAIN		SQ YD	83		83				
	*	6300001	STEEL DI ATE B	EAM GUARDRAIL, TYPE A, 6 FOOT 1	POSTS	FOOT	30	30					
	-	03000001											
	*	63100085	TRAFFIC BARR	ER TERMINAL, TYPE 6		EACH	4	4					
	_												
	*	63100167	TRAFFIC BARR	IER TERMINAL, TYPE 1 (SPECIAL) T	ANGENT	EACH	4	4					
		63200310	GUARDRAIL RI	EMOVAL		FOOT	577	577					
	*	66600105	FURNISHING A	ND ERECTING RIGHT OF WAY MARK	(ERS	EACH	9	9					
						CUVD	600	600					
	4	66900200	NON-SPECIAL	WASTE DISPOSAL									
	*	66900450	SPECIAL WAST	E PLANS AND REPORTS		LSUM	1	1					
	N			· · · · · · · · · · · · · · · · · · ·				- <u> </u>					
	*	66900530	SOIL DISPOSAL	. ANALYSIS		EACH	2	2					
	14												
		¥ (95)	TAITY TT	< NA (				· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·				
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HILINOIS.gov:PWIDOT\Goouments\IDOT Offic PLOT SCALE = 100	oes/District 3/Projects/D 8.0000 1/ in.	CHECKED -	isheets \details.dgn	REVISED -	DEPARTMENT OF T	RANSPOR	TATION				STA		
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				CONSTR	RUCTION CODE		
				RULAL ROADWAY	80/20 FED/STAT BRIDGE		
CODE	ITEM	LINIT	TOTAL OUANTITY	0004	0011 PROP. S.N.006-0		
NU.	A 1 D.1V4	UINI	QUANTIT				
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MÓ	8	8			
67100100	MOBILIZATION	LSUM	1	1			
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1			
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	LSUM	1	1			
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1			
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6			
70300100	SHORT TERM PAVEMENT MARKING	FOOT	292	292			
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	97	97			
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	5998	5998			
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	243	243			
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	57	57			
70400100	TEMPORARY CONCRETE BARRIER	FOOT	870	870			
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	806	806			
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2			

FILE NAME =	USER NAME = woodyerjp	DESIGNED -	REVISED -			:	SUMMA	RY OF Q	UANTITIES		F.A. RTÉ.	SECTION	COUNTY	SHEETS	SHEET
p#1\\ILØ84EBIDINTEG.11}tnots.gov:PW1007\0	opuments/1007 Offices/District 3/Projects/03	SGA <b>DRAWQD</b> ata\GADsheets\details.dgn	REVISED -	STATE OF ILLINOIS	1						316	(116 BR)BR	BUREAU	91	7
	PLOT SCALE = 100.0000 1/ 10.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION									CONTRAC	<u>, T NO. E</u>	66A19
Default	PLOT DATE = 8/3/2017	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	S STA.	TO STA.		ILLINOIS FED	, AID PROJECT		
														1	0

									CONS	TRUCTION CODE
								1	RURAL	80/20 FEP/ST
				CODE				TOTAL	ROADWAY	BRIDGE
				NO.	-	ITEM	UNIT	QUANTITY	0004	PROP. S.N.006
					NOACT ATTENUATORS BEL		EACH	9		
				70600350	IMPACI ATTENUATORS, REC	JCAIE (NON~ REDIRECTIVE), TEST LEVEL 3	EACH	2		
			¥	78008210	POLYUREA PAVEMENT MARK	KING TYPE I - LINE 4"	FOOT	1944	1944	
			¥	78008230	POLYUREA PAVEMENT MARK	KING TYPE I – LINE 6"	FOOT	243	243	
			*	78100100	RAISED REFLECTIVE PAVEME	ENT MARKER	EACH	12	12	
					-					
			×	78200005	GUARDRAIL REFLECTORS, TY	(PE A	EACH	16	16	
				78300200	RAISED REFLECTIVE PAVEME	ENT MARKER REMOVAL	EACH	12	12	
				X0326649	LINEAR DELINEATOR PANELS	S, 6 INCH	EACH	6	6	
				X0327980	PAVEMENT MARKING REMO	VAL (WATER BLASTING)	SQ FT	1071	1071	
				X5030305	CONCRETE WEARING SURFAC	CE, 5"	SQ YD	283		283
				X5040100	PRECAST BRIDGE APPROACH	I SLAB	SQ FT	2440		2440
				X5860110	GRANULAR BACKFILL FOR S	TRUCTURES	CU YD	138		138
				X7040125	PINNING TEMPORARY CONCE	RETE BARRIER	EACH	66	66	
						· · · · · ·				
				X7200201	WIDTH RESTRICTION SIGNIN	G	LSUM	1	1	
			*	Z0001900	ASBESTOS BEARING PAD REI	MOVAL	EACH	88	· · · · · · · · · · · · · · · · · · ·	88
							SO FT	49	49	
				20030850						
			)/s	Z0046304	PIPE UNDERDRAINS FOR STR	UCTURES 4"	FOOT	158		158
FILE NAME =		USER NAME = woodyer.p	DESIGNED -	* SPE	REVISED -	· · · · · · · · · · · · · · · · · · ·				SIIMMARY OF OU
pwt\\IL084EBIDINTEG.	ullinois-dort-All001/04	cuments\000T_Offices\District_3\Projects\03	664DRACWBData\GADsheets\d	etails.dgn	REVISED -	STATE OF ILLINOIS	S			
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	FE A			TOTAL SHEET
NTITIES	RTE.	SECTION	COUNTY	SHEETS NO.
WITTED	210	0116 00100	RUREAU	91 R



			GUA	RDRAIL SCH	HEDULE				
STA. TO STA.	TBT TY1 SP (TANG)	SPBGR TY A 6' POSTS	ТВТ ТҮ6	GR REFLECTORS TYPE A	HMA SHLD WIDTH	HMA SHLD 9''•	GR REM	AGGREGATE SHLDR TY. B	LINEAR DELINEATOR PANELS, 6 INCH
	EACH	FT	EACH	EACH	FEET	SQ. YD.	FOOT	TONS	EACH
NORTH BOUND									
1575+50 TO 1576+32								3.3	
1576+32 TO 1577+90					7	122			
1577+90 TO 1578+88					VARIES	116			
1578+26 TO 1579+20	1	0	1	4					
1578+28.5 TO 1579+22							93		
1579+17 TO 1581+74									3
1581+71 TO 1582+79	1	15	1	4					
1582+01 TO 1583+25					VARIES	154			
1581+75.5 TO 1583+69							195		
1583+25 TO 1584+90					5	77			
1984+90 TO 1585+22					2	9			
SOUTH BOUND									
1575+50 TO 1576+60									
1575+50 TO 1577+84								10.6	
1576+60 TO 1579+30**					3	90			
1577+42 TO 1579+22							181		
1577+84 TO 1578+78					VARIES	107			
1578+04.5 TO 1579+12	1	15	1	4					
1579+09 TO 1581+66									3
1581+56 TO 1584+82**					3	108			
1581+98 TO 1582+95.5					VARIES	121			
1581+64 TO 1582+57	1	0	1	4					
1581+74 TO 1582+82							108		
1582+96 TO 1584+89.5								8.8	
TOTALS	4	30	4	16		904	577	22.7	6

•DO NOT PLACE HMA SHOULDER BEHIND APPROACH PAVEMENT

\*\*THESE TWO AREAS TO BE BUILT PRIOR TO STAGE I CONSTRUCTION

					W	ORK ZONE TRA	FFIC CONTROL				
LOCA	TION	LENGTH	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	PINNING TEMPORARY CONCRETE BARRIER	TEMPORARY RUMBLE STRIP	IMPACT ATTENUATORS TEMPORARY (NON-REDIRECTIONAL) TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIONAL) TEST LEVEL 3	TEMPORARY PAVEMENT MARKING 4''	TEMPORARY PAVEMENT MARKING 24''	PAVEMENT MARKING REMOVAL WATER BLASTING
FROM	TO	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH	FOOT	FOOT	SO. FT.
STAC	GE 1										
1574+22	1574+24	12								12	24
1574+84	1586+15	1131							1131		
1574+84	1576+60	176									22
1576+43	1584+94	851							851		
1576+60	1584+66	806	806				2				
1578+78.5	1581+99	320.5			66						
1584+81	1586+15	134									16.8
1586+25	1586+27	15								15	30
*N. OF STOP	BAR IN SBL					3					
*S. OF STOP	BAR IN NBL					3					L
STAC	SE 2										L
1574+72	1574+74	15								15	30
1574+84	1577+50	266									88.7
1574+84	1586+65	1181							1182		394
1576+43	1577+50	107									35.7
15/6+50	1585+20	870	64	806				2			222.7
15/6+25	1585+15	890							890		296.7
1584+00	1584+94	94									51.3
1584+00	1586+15	215									(1.)
1587+25	1587+27	15				-			1051	15	30
	TOTALS		870	806	66	6	2	2	4054	57	1071

• TEMPORARY RUMBLE STRIPS SHALL BE USED IN STAGE 1 AND STAGE 2 CONSTRUCTION. SEE HIGHWAY STANDARD 701321 FOR LOCATION.

FILE NAME =	USER NAME = woodyerjp	DESIGNED -	REVISED -		SCHEDIUES OF OUANTITIES			F.A.	SECTION	COUNTY	TOTAL	SHEET		
pw:\\IL084EBIDINTEG.1111no1s.gov:PWIDOT\Do	cuments\IDOT Offices\District 3\Projects\D36	ADRACWOData\GADsheets\details.dgn	REVISED -	STATE OF ILLINOIS		5		O OF COANTINES		316	(116 BR)BR	BUREAU	91	10
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION								CONTRAC	T NO. F	36A19
Default	PLOT DATE = 8/3/2017	DATE –	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED. AI	ID PROJECT		

	TREE REMOVAL	SCHEDULE	
		DIAMETER	DIAMETER
STA.	OFFSET	6-15	OVER 15
		UNIT	UNIT
1575+55	44.3′ LT	13.7	
1575+60.9	45.3' LT	12.4	
1576+07.6	42.4' LT	8.9	
1576+17	45.6′ LT	7	
1576+29.8	48.9′ LT		18.3
1576+44.6	54.2′ LT	10.5	
1576+58.6	55.7′ LT		16.8
1576+89	43.8′ LT	8	
1576+99	27.1' LT		46
1577+10.1	53.1' LT	11.8	
1577+20.8	53.1' LI	8.1	
1577+30.6	55.2' LI	8.3	
15//+35	47.9 LI	12	
1577+50	30.7′ LT	6.0	
1577+77.8	35.11 1	0.2	22.8
1577+86.7	43.7′ I T		16
1578+25	49.7' LT	13.2	10
1578+26	49.7' LT	10.9	
1578+46.3	52.5' LT	7.3	
1578+65.6	49.5' LT	10	
1578+66.6	51.6′ LT	10.9	
1578+66.6	49.5′ LT		21.2
1579+25	59.2′LT	13.4	
1579+25	36.2' LT		30.3
15/9+55.5	27.67 LI		42.7
1582+95	43.0' L1		25.3
1582+96	43.0° LT	10.0	18.1
1302+31	4J.0 LI	10.9	
1575+88-4	54.3′ RT		41
1575+92	54.3′ RT		37.5
1576+43.1	46.5' RT		21.1
1576+43.1	47.5′ RT		17.9
1577+19	54.3′ RT		22.3
1577+80.4	46.6′ RT		24.6
1577+90	51.3′ RT		22.4
1578+37	41.8' RT	6.7	
1578+59.5	42.9' RI	14.4	
1578+72.3	39.3' RI	12.1	15.0
1578+45	48.4' RI	10.2	15.6
1010+00.2 1578+93 5	565' PT	10.2	30.0
1581+24 6	45.9' RT	9.8	53.3
1581+25.6	50.4' RT	7.4	
1581+69.3	46.4' RT		23.6
1581+72.2	46.4' RT		24.4
1581+78.8	46.6' RT	6.8	
1581+94	41.8′ RT	8.3	
1581+94	43.5′ RT	11.5	
1582+17.7	51.6′ RT	14.1	
1582+26	48.3′ RT		29.4
1582+58	42.7' RT		32.5
1582+61	45.8' KI	8.8	
1503+01.2		14.2	3E C
1583+08 7	45.2' PT	7 3	0.00
1583+29	53.8' PT	7 1	
1583+30 5	52.4' RT	/ • 1	21.4
1583+40.6	51.8' RT	10.3	L1.7
1583+49	52.1' RT	6.6	
1583+51	53.0' RT	14.8	
1583+66.5	54.0' RT		38.3
1000.00.0			
1000 0010			

	ROW MARKER SCHEDULE									
LOCATION	OFF	ROW MARKER								
STATION	L/R	FEET	EACH							
1575+50	LT	45′	1							
1576+00	LT	60′	1							
1579+14.60	LT	60′	1							
1580+20.21	LT	60′	1							
1575+50	RT	45′	1							
1576+00	RT	60′	1							
1579+14.60	RT	60′	1							
1583+50	RT	60'	1							
1584+00	RT	60′	1							
	TOTAL		9							

\*ANY EXISTING ROW MARKERS TO BE REMOVED

P	AVEMEN1	REMOVAL SCHEDULE	
STA. TO STA.	SIDE	PAVEMENT REMOVAL	PAVED SHOULDER REMOVAL
	(LT/RT)	SQ. YDS.	SQ. YDS.
1576+32 TO 1577+90	LT		35
1576+60 TO 1579+30	RT		60
1578+78.5 TO 1579+30	MAINLINE	175.3	
1581+56 TO 1584+81	RT		73
1581+56 TO 1581+99	MAINLINE	150.5	
1583+25 TO 1585+22	LT		44
TOTALS		326	212

	EARTH	EXCAVA	FION SCHEDUL	-	
(1)		(2)	(3)	(4)	(5)
		EARTH	EARTH EX	EMBANK	EARTHWORK BAL
ΔΤΖ ΟΤ ΔΤΖ		FX	AD.L FOR		WASTE(+) OR
3177 10 3177					
			SHITINKAGE		SHORTAGE
	LANE	CU YD	CU YD	CU YD	CU YD
RIP RAP STABLIZATION AREA					
1575+00 TO 1575+50	LT/RT	1.94	1.46	27.3	-25.85
1575+50 TO 1576+00	LT/RT	9.81	7.36	88.3	-80.94
1576+00 TO 1576+50	LT/RT	13.89	10.42	118.9	-108.48
1576+50 TO 1577+00	LT/RT	11.2	8.40	140.9	-132.50
1577+00 TO 1577+50	LT/RT	8.6	6.45	181.4	-174.95
1577+50 TO 1578+00	LT/RT	16.3	12.23	259.5	-247.28
1578+00 TO 1578+50	LT/RT	15.8	11.85	270.1	-258.25
1578+50 TO 1579+00	LT/RT	5.4	4.05	348.3	-344.25
1579+00 TO 1579+15	LT/RT	0.7	0.53	71.8	-71.28
1581+69 TO 1582+00	LT/RT	5.2	3.90	101	-97.10
1582+00 TO 1582+50	LT/RT	11.6	8.70	312.1	-303.40
1582+50 TO 1583+00	LT/RT	8.3	6.23	263.4	-257.18
1583+00 TO 1583+50	LT/RT	14.1	10.58	193.4	-182.83
1583+50 TO 1584+00	LT/RT	17.5	13.13	129.3	-116.18
1584+00 TO 1584+50	LT/RT	16.7	12.53	96.5	-83.98
1584+50 TO 1585+00	LT/RT	16.7	12.53	76.9	-64.38
1585+00 TO 1585+22	LT/RT	3.7	2.78	13.5	-10.73
GRAND TOTALS		177	133	2693	-2560

COLUMNS 2, AND 4-LOCATION AND QUANTITIES FROM CROSS SECTIONS COLUMN 3- QUANTITY OF EARTH EXCAVATION (CUT) ADJUSTED FOR A SHRINKAGE FACTOR OF 25% (1- SHRINKAGE FACTOR) COLUMN 5 EARTHWORK REQUIRED (PAY FOR AS FURNISHED EXCAVATION)

CHANNEL EXCAV	ATION SCHEDULE			
LOCATION	CHANNEL EXCAVATION			
STATION	CU. YD			
1579+46.4 TO 1580+00	119.1			
1580+00 TO 1580+50	138.3			
1580+50 TO 1581+00	392.5			
1581+00 TO 1581+49.4	636.6			
TOTALS	1286.5			

STONE RIPRAP, CLASS A3									
LOCATION		FILTER FABRIC	STONE RIPRAP, CL A3						
STATION		SQ. YD.	SQ. YD.						
1578+73.4 TO 1578+83	RΤ	30	30						
1578+80 TO 1578+90	LT	30	30						
1581+95 TO 1582+05 R		30	30						
1582+01 TO 1582+11	LΤ	19	19						
TOTALS		109	109						

FILE NAME =	USER NAME = woodyerjp	DESIGNED -	REVISED -			S		ES OF QUANTITIES		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\\IL084EBIDINTEG.1llinois.gov:PWIDOT\Do	cuments\IDOT_Offices\District_3\Projects\D3	3664 <b>0RAWD</b> Data\GADsheets\details.dgn	REVISED -	STATE OF ILLINOIS						316	(116 BR)BR	BUREAU	91	11
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION								CONTRAC	T NO. 6	6A19
Default	PLOT DATE = 8/3/2017	DATE –	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

				S	EEDING SCHEDL	ILE				
LOCATION	OFFSET	SEEDING CLASS 2A	NITROGEN FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	PHOSPHOROUS FERTILIZER NUTRIENT	HEAVY DUTY EROSION CONTROL BLANKET	TEMP DITCH CHECKS	PERIMETER EROSION BARRIER	TEMPORARY FENCE	
STA TO STA	L/R	ACRE	POUND	POUND	POUND	SQ. YD.	FOOT	FOOT	FOOT	
1572+00 TO 1575+00	L							349.9	349.9	
1575+50 TO 1579+50	L	0.27	24.3	24.3	24.3	1306.5	12	717.2	52.1	
1580+96 TO 1585+22	L	0.16	14.4	14.4	14.4	782.4	12	384.2		
1575+50 TO 1579+15	R	0.25	22.5	22.5	22.5	1217.7	12	365.1		
1580+78 TO 1585+22	R	0.25	22.5	22.5	22.5	1224.9	12	394.2		
GRAND TOTAL	S	0.93	84	84	84	4532	48	2211	402	

				MAINLI	NE SCHEDULE				
STA. TO STA.	LENGTH	WIDTH	AREA	1 1/2" HMA SURFACE COURSE "C" N50	HOT-MIX ASPHALT BINDER COURSE IL-19.0, N50	BIT. MATLS TACK COAT	MIXTURE FOR CRACKS JOINTS, & FLANGEWAYS	HMA SURFACE REMOVAL BUTT JOINT	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
	FT	FT	SQ. YD.	TON	TON	POUND	TON	SQ. YD.	SQ. YD.
1575+50 TO 1576+45	95	30	316.7	26.6	N/A	213.8	0.10	315.5	
1576+45 TO 1578+78.5	233.5	30	778.5	65.4	461.7	525.5	0.23		
1578+78.5 TO 1578+84.5	6	30	20.3						27
1581+93 TO 1581+99	6	30	20.3						27
1581+99 TO 1584+00	201	30	670	56.3	452.0	452.3	0.20		
1584+00 TO 1585+22	122	30	402	33.8	N/A	274.5	0.12	401.8	
TOTAL	TOTALS			182.0	914	1466	0.65	717	54

			P	AVEMEN	T MARKIN	NG SCHEDULE	-		
LOCATION	LENGTH	POLYUREA	POLYUREA	TEMP 4"	TEMP 6"	SHORT TERM	SHORT TERM PVT.	RAISED REFLECTIVE	REMOVAL RAISED
IL 26		PVT MK. 4"	PVT MK. 6"	PVT MK.	PVT MK.	PAV'T MARK	MARKING REMOVAL	PAV'T MARKERS	REFLECTIVE PAV'T MARK
STA. TO STA.	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	SQ. FT.	EACH	EACH
1575+50 TO 1585+22	972	1944	243	1944	243	291.6	97.3	9.0	12.2
1579+15 TO 1581+69	254								
TOTALS		1944	243	1944	243	292	97	12	12

FILE NAME =	USER NAME = woodyerjp	DESIGNED -	REVISED -		SCHEDULES OF QUANTITIES			F.A. RTE.	SECTION	COUNTY	TOTAL	SHEET		
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	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION								CONTRAC	T NO.	66A19
Default	PLOT DATE = 8/3/2017	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED.	AID PROJECT		

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EROSION
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81
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FILE NAME =	USER NAME = woodyerjp	DESIGNED -	REVISED -		TIE POINTS			F.A.P.	SECTION	COUNTY	TOTAL	SHEET	
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	PLOT SCALE = 111.0223 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		1					CONTRACT	NO. 6	6A19
	PLOT DATE = 8/3/2017	DATE -	REVISED -		SCALE:	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		



#### CP 26501 1573+92.45 18.20'RT



#### PI 1575+49.05 17.61′RT



CP 26500 1591+29.69



FILE NAME = USER NAME = woodyerjp DESIGNED -REVISED TIE POINT STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION ow:\\IL084EBIDINTEG.111no1s.gov:PWIDOT\Do uments\IDDT\_Offices\District\_3\Projects\D3664**DRAWD**Data\GADsheets\details.dgn REVISED PLOT SCALE = 111.0223 // in. CHECKED REVISED PLOT DATE = 8/3/2017 DATE REVISED SCALE: SHEET NO. 2 OF 2 SHEETS



Т	s		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
			316	(116 BR)BR	BUREAU	91	14	
					CONTRACT	NO. 6	6A19	
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HEETS	RTE.	SECT	TION		COUNTY	SHEETS	SHEET NO.
	316	(116 8	BR)BR		BUREAU	91	15
					CONTRAC	T NO. 6	56A19
'S STA. TO STA.			ILLINOIS	FED. AI	D PROJECT		





	TE.	SECTION		COUNTY	SHEETS	NO.
3	316	(116 BR)BR		BUREAU	91	16
				CONTRACT	NO. 6	6A19
S STA. TO STA.		ILLINOIS	FED. AI	D PROJECT		



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SCALE	IN FEET		

HEETS		SECTION			COUNTY	SHEETS	SHEET NO.
	316	(116 8	BR)BR		BUREAU	91	17
	_				CONTRAC	T NO. 0	56A19
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			F.A.P. RTE.	SEC	CTION		COUNTY	TOTAL SHEETS	SHEET NO.
TION TYPICAL SECTIONS		316	[116	BR] BR		BUREAU	91	21	
							CONTRAC	CT NO.	66A19
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OT SCALE = 40.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION					
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	PLOT DATE = 8/3/2017	DATE -	REVISED -		SCALE:	SHEET 3	0F 3





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	O SCALE IN	20 N FEET	40	) 6	50		
F.A. RTE.	SE	ECTION		COUNTY		TOTAL SHEETS	SHEET NO.
316	(116	5 BR)BR		BUREAU		91	32
				CONTRA	AC T	' NO. 6	56A19
		ILL INOIS	FED, A	ID PROJECT			





#### WATERWAY INFORMATION

Drainage Area = 175.5 Sq. Mi. Existing Low Grade Elev. 629.83 • Sta. 1597+25 Proposed Low Grade Elev. 629.83 • Sta. 1597+25											
Eload	Freq.	0	Opening	Sq. Ft.	Nat.	Head	- Ft.	Headwa	ater El.		
1000	Yr.	C.F.S.	Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.		
Ex. Overtopping	9	7.490	1,455	2,541	629.7	0.4	0.0	630.1	629.7		
Pr. Overtopping	9	7,530	1,468	2,557	629.8	0.4	0.0	630.2	629.8		
	10	7.920	1,504	2,600	630.0	0.5	0.1	630.4	630,1		
Hydraulic Design	50	12,500	1,910	3,075	632.0	0.2	0.3	632.3	632.3		
Base/Scour Design	100	14,500	2,042	3,233	632.7	0.3	0.3	633.0	633.0		
Scour Check	200	16,579	2,121	3,351	633.2	0.5	0.4	633.7	633.6		
Max. Colc.	500	19,300	3,522	3,493	633.8	0.6	0.4	634.4	634.2		
10-Yr Velocity = 5	3 ft /c	on (Evin	<del>.</del> f)								

10-Yr. Velocity = 3.0 fl./sec. (Prop.)

#### DESIGN SCOUR ELEVATION TABLE

Event/Limit	Design Scour Elevations (fl.)				Item
State	N. Abut.	Pier 1	Pier 2	S. Abut.	113
Q100	630.4	611.9	611.9	629.4	
0200	630.4	611.9	611.9	629.4	0
Design	630.4	611.9	611.9	629.4	o
Check	630,4	611,9	611.9	629.4	

#### INDEX OF SHEETS

rall for 1) JL. Rte. 26 & rafile Grade Line .GL.)	<u>SHEET NO.</u> BI B2 B3 B4 B5 B6-B7 B8 B9 B10 B11-B12 B13-B16 B17-B19 B20 B21 B21 B21 B22 B23 B24 B25 B26 B27 B28-B32	<u>LITLE</u> GENERAL PLAN AND ELEVAT GENERAL DATA STAGE CONSTRUCTION DETA. TEMPORARY CONCRETE BARI CONSTRUCTION TOP OF DECK ELEVATION LO TOP OF DECK ELEVATION LO TOP OF DECK ELEVATIONS TOP OF APPROACH SLAB EL SUPERSTRUCTURE SUPERSTRUCTURE SUPERSTRUCTURE SUPERSTRUCTURE DIAPHRAGM DETAILS PRECAST BRIDGE APPROACH STRUCTURAL STEEL FIXED BEARING DETAILS NORTH ABUTMENT PIER NO. 2 METAL SHELL PILE DETAIL BAR SPLICER ASSEMBLY AN SPLICER DETAILS CONCRETE PARAPET SLIPFO SOIL BORING LOGS	TION ILS RIER FOR STAGE DCATIONS EVATIONS H SLAB S D MECHANICAL DRMING OPTION
pp, Class A3, typ. B2 for Section	LONG STATE	Joseph M. Lowrand JOSEPH M. LOWRANG ILLINOIS STRUCTURAL E NO. 081-006446 Exp. Date 11/30/18	<u>Date <b>07-28-17</b></u> 2E NGINEER
R 9 E, 41h, PM M 1950N 28 28 28 28 28 28 28 28 28 28	roposed ructure ig Bureau reek	<u>GENERAL PLAN AI</u> <u>[L. ROUTE 2</u> <u>BIG BUREAU</u> <u>F.A.P. 316 - SECT</u> <u>BUREAU C</u> <u>STATION 158</u> <u>STRUCTURE NO</u>	ND ELEVATION 26 OVER 1 CREEK 10N (116 BR)BR 0UNTY 30+41.50 , 006-0187
	-	F.A.F.     SECTION       RTE.     316       316     (16 BR)BR	COUNTY TOTAL SHEE SHEETS NO. BUREAU 91 34 CONTRACT NO. 66A19
32 SHEETS	1	ILLINOIS FEO. AI	D PROJECT

24-8962

#### TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.		1,010	1,010
Filter Fabric	Sq. Yd.		1,010	1,010
Removal of Existing Structures	Each	1		1
Structure Excavation	Cu. Yd.		156	156
Cofferdam Excavation	Cu. Yd.		222	222
Cofferdam (Type 2) (Location - 1)	Each		1	1
Cofferdam (Type 2) (Location - 2)	Each		1	1
Concrete Structures	Cu. Yd.		238.6	238.6
Concrete Superstructure	Cu. Yd.	384.3		384.3
Bridge Deck Grooving	Sq. Yd.	1,323		1,323
Protective Coat	Sq. Yd.	1,636		1,636
Furnishing and Erecting Structural Steel	L Sum	1		1
Stud Shear Connectors	Each	6,312		6,312
Reinforcement Bars, Epoxy Coated	Pound	97,070	24,230	121,300
Bar Splicers	Each	921	182	1,103
Driving Piles	Foot		1,443	1,443
Test Pile Metal Shells	Each		3	3
Name Plates	Each	1		1
Preformed Joint Strip Seal	Foot	87		87
Anchor Bolts, 1"	Each	48		48
Temporary Soil Retention System	Sq. Ft.		485	485
Geocomposite Wall Drain	Sq. Yd.		83	83
Concrete Wearing Surface, 5"	Sq. Yd.	283		283
Precast Bridge Approach Slab	Sq. Ft.	2,440		2,440
Granular Backfill for Structures	Cu. Yd.		138	138
Asbestos Bearing Pad Removal	Each	88		88
Pipe Underdrains for Structures 4"	Foot		158	158
Furnishing Metal Shell Piles 16"x0.375"	Foot		1,443	1,443





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STATION 1580+41.50
BUILT 20 BY
STATE OF ILLINOIS
F.A.P. RT. 316 SEC. (116 BR)BI
LOADING HL-93
STRUCTURE NO. 006-0187

NAME PLATE See Std. 515001

GENERAL NOTES:

- 1.)
- 2.) 3.)

- Fasteners shall be ASTM A325 Type I, mechanically galvanized bolts in painted areas and ASTM A325 Type 3 in unpainted areas. Bolts  $T_{g}$  in. dia., holes  $B_{b}$  in. dia., unless otherwise noted. Calculated weight of Structural Steel = 388,860 lbs. All structural steel shall be ASHTO M270 Grade 50W. No field welding is permitted except as specified in the contract documents. Reinforcement bars designated (E) shall be epoxy coated. If the contractor elects to use cantilever forming brackets on the exterior girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Sconfictions. 4.) 5.) 6.) placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of  $\frac{1}{9}$  in (0.01 f1.). Adjustment shall be made either by grinding the surface or by shimming the bearings. Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete diaphragm plus 1'-6". Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.
- 7.) 8.)
- 9.)
- Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer. 10.)
- The Engineer. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments. The Contractor is advised that the existing PPC deck beams are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the beams when developing construction procedures for the removal and replacement of the structure. 11.)



OFFSET DETAIL





Farnsworth GROUP		DESIGNED - TCR/JCZ CHECKED - JML DRAWN - DJM	REVISED REVISED REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL DATA Structure No. 006-018
(309) 663-8435 / info@f-w.com	DATE - 07/28/17	CHECKED - JML	REVISED		SHEET NO. B2 OF 32 SHEETS

#### SECTION THRU SOUTH ABUTMENT

(Similar for North Abutment)

zontal Dimensions 👁 Rt. L's to Abutment. ded in the cost of Pipe Underdrains for Structures Special Provisions). special Frovisions), drainage system components shall extend to 2'-0" in the end of each wingwall except an outlet pipe l extend until intersecting with the side slopes, pipes shall drain into concrete headwalls, Article 601,05 of the Standard Specifications Hinburg Standard EU201 and Highway Standard 601101).

ILLINOIS FED. AID PROJECT




27	2-17-2017
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Farnsworth		DESIGNED - TCR/JCZ	REVISED		TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET
GROUP		CHECKED - JML	REVISED	STATE OF ILLINOIS		316	(116 BR)BR	BUREAU	91	37
2709 McGRAW DRIVE		DRAWN - DJM	REVISED	DEPARTMENT OF TRANSPORTATION	SIRUCIURE NU. UUD-U18/			CONTRAC	T NO.	å6A19
(309) 663-8435 / info@f-w.com	DATE - 07/28/17	CHECKED - JML	REVISED		SHEET NO. B4 OF 32 SHEETS		ILLINOIS FEE	AID PROJECT		





# BAR SPLICER FOR #4 BAR - DETAIL III

Cost of retainer assembly is included with Temporary Concrete Barrier. A retainer assembly shall be located at the approximate  $\mathcal{Q}$  of each temporary

The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam. When the 'A' dimension is less than  $l_2''$ , the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate

Detail I - Installation for a new bridge deck or bridge slab.

Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.



th		DESIGNED - TCR/JCZ	REVISED		TOP OF DECK FLEVATION LOCATIONS	F.A.P.	SECTION	COUNTY	TOTAL SH	IEET
un		CHECKED - JML	REVISED	STATE OF ILLINOIS		316	(116 BR)BR	BUREAU	91	38
		DRAWN - DJM	REVISED	DEPARTMENT OF TRANSPORTATION	STRUCTURE NU. 006-0187			CONTRAC	T NO. 66A	19
	DATE - 07/28/17	CHECKED - JML	REVISED		SHEET NO. B5 OF 32 SHEETS		ILLINOIS FED.	AID PROJECT		

2709 McGRAW DRIVE BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / info@f-w.com

<u>GIRDER 2</u>

GIRDER	1
DINDEN	4

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Bk. of North Abut.	1579+17.20	- 18,13	638.32	638.32
€ Brg. North Abut.	1579+18.89	- 18.13	638.35	638.35
А	<i>1579+28.89</i>	- 18.13	638.48	638.49
В	1579+38.89	- 18.13	638.53	6 <b>38.</b> 55
С	1579+48.89	- 18.13	638.58	638.60
D	1579+58.89	- 18 <b>.</b> 13	638.61	638.63
E	1579+68.89	- 18,13	638.64	638.65
F	1579+78.89	- 18.13	638.66	638.66
€ Brg. Pier No. 1	1579+92.20	- 18 <b>.</b> 13	638.67	638.67
G	1580+02.20	- 18.13	638.67	638.69
Н	1580+12.20	- <i>18.13</i>	638.66	638.71
Ι	1580+22.20	- 18.13	638.65	638.71
J	1580+32.20	- 18.13	638.62	638.71
К	1580+42.20	- 18,13	638.59	638.68
L	1580+52.20	- 18.13	638.55	638.64
М	1580+62.20	- 18.13	638.50	638.57
N	1580+72.20	- 18,13	638.44	638.49
0	1580+82.20	- 18.13	638.37	638.40
© Brg. Pier No. 2	1580+97.20	- 18.13	638.26	638.26
Р	1581+07.20	- <i>18</i> .13	638.17	638.17
0	1581+17.20	- 18.13	638.07	638.08
R	1581+27.20	- 18.13	637.97	637.99
S	1581+37.20	- 18.13	637.86	637.88
Т	1581+47.20	- 18.13	637.74	637.76
U	1581+57.20	- 18.13	637.61	637.62
€ Brg. South Abut.	1581+70.50	- 18.13	637.42	637.42
Bk. of South Abut.	1581+72.20	- 18.13	637.40	637.40

Bk. of North Abut.         1579+15.92         -10.88         638.46         638.46	Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevation Adjusted for Dead Load Deflection
	Bk. of North Abut.	1579+15.92	- 10 <b>.</b> 88	638.46	638.46
A         1579+27.61         -10.88         638.58         638.59           B         1579+37.61         -10.88         638.64         638.66           C         1579+47.61         -10.88         638.69         638.71           D         1579+57.61         -10.88         638.72         638.74           E         1579+67.61         -10.88         638.75         638.76           F         1579+77.61         -10.88         638.79         638.77           § Brg. Pier No. 1         1579-90.92         -10.88         638.79         638.80           H         1580+00.92         -10.88         638.78         638.80           H         1580+0.92         -10.88         638.78         638.82           I         1580+0.92         -10.88         638.76         638.82           J         1580+20.92         -10.88         638.74         638.82           J         1580+20.92         -10.88         638.74         638.82           J         1580+50.92         -10.88         638.76         638.61           L         1580+50.92         -10.88         638.62         638.61           J         1580+50.92         -10.88         638.49	€ Brg. North Abut.	1579+17.61	- 10.88	638.48	638.48
B         1579+37.61         -10.88         638.64         638.66           C         1579+47.61         -10.88         638.69         638.71           D         1579+57.61         -10.88         638.72         638.74           E         1579+67.61         -10.88         638.75         638.76           F         1579+67.61         -10.88         638.77         638.77           § Brg. Pier No. 1         1579+90.92         -10.88         638.79         638.80           G         1580+00.92         -10.88         638.79         638.80           H         1580+10.92         -10.88         638.78         638.82           I         1580+20.92         -10.88         638.76         638.82           J         1580+20.92         -10.88         638.74         638.82           J         1580+20.92         -10.88         638.74         638.82           J         1580+20.92         -10.88         638.74         638.82           J         1580+50.92         -10.88         638.76         638.76           M         1580+50.92         -10.88         638.62         638.61           J         1580+50.92         -10.88         638.	А	1579+27.61	- 10.88	638.58	638.59
C         1579+47.61         -10.88         638.69         638.71           D         1579+57.61         -10.88         638.72         638.74           E         1579+67.61         -10.88         638.75         638.76           F         1579+67.61         -10.88         638.77         638.77           © Brg. Pier No. 1         1579+90.92         -10.88         638.79         638.80           G         1580+00.92         -10.88         638.78         638.80           H         1580+10.92         -10.88         638.76         638.82           I         1580+20.92         -10.88         638.76         638.82           J         1580+20.92         -10.88         638.76         638.82           J         1580+20.92         -10.88         638.74         638.82           J         1580+20.92         -10.88         638.71         638.82           J         1580+20.92         -10.88         638.71         638.80           L         1580+50.92         -10.88         638.62         638.61           M         1580+70.92         -10.88         638.56         638.61           N         1580+50.92         -10.88         638.	В	1579+37.61	- 10.88	638.64	638.66
D         1579+57.61         -10.88         638.72         638.74           E         1579+67.61         -10.88         638.75         638.76           F         1579+77.61         -10.88         638.77         638.77           © Brg. Pier No. 1         1579+90.92         -10.88         638.79         638.79           G         1580+00.92         -10.88         638.79         638.80           H         1580+10.92         -10.88         638.78         638.82           I         1580+20.92         -10.88         638.76         638.82           J         1580+20.92         -10.88         638.74         638.82           J         1580+20.92         -10.88         638.74         638.82           J         1580+20.92         -10.88         638.74         638.82           J         1580+20.92         -10.88         638.71         638.82           M         1580+40.92         -10.88         638.67         638.76           L         1580+50.92         -10.88         638.62         638.69           M         1580+60.92         -10.88         638.56         638.61           O         1580+50.92         -10.88         638	С	1579+47.61	- 10.88	638.69	638.71
E $1579+67.61$ $-10.88$ $638.75$ $638.76$ F $1579+77.61$ $-10.88$ $638.77$ $638.77$ $\&$ Brg. Pier No. 1 $1579+90.92$ $-10.88$ $638.79$ $638.79$ G $1580+00.92$ $-10.88$ $638.79$ $638.80$ H $1580+00.92$ $-10.88$ $638.78$ $638.82$ I $1580+00.92$ $-10.88$ $638.78$ $638.82$ J $1580+20.92$ $-10.88$ $638.76$ $638.83$ J $1580+20.92$ $-10.88$ $638.74$ $638.82$ K $1580+40.92$ $-10.88$ $638.71$ $638.80$ L $1580+0.92$ $-10.88$ $638.67$ $638.67$ M $1580+0.92$ $-10.88$ $638.62$ $638.61$ M $1580+0.92$ $-10.88$ $638.62$ $638.61$ O $1580+80.92$ $-10.88$ $638.49$ $638.52$ $\&$ Brg. Pier No. 2 $1580+95.92$ $-10.88$ $638.29$ $638.29$ O $1581+55.92$ $-10.88$ $638.29$ $638.21$ R $1581+55.92$ $-10.88$ $638.20$ $638.21$ R $1581+55.92$ $-10.88$ $637.99$ $638.01$ T $1581+55.92$ $-10.88$ $637.74$ $637.75$ $\&$ Brg. South Abut. $1581+55.92$ $-10.88$ $637.53$ $637.53$	D	1579+57.61	- 10.88	638.72	638.74
F $1579+77.61$ $-10.88$ $638.77$ $638.77$ $\&$ Brg, Pier No. 1 $1579+90.92$ $-10.88$ $638.79$ $638.79$ G $1580+00.92$ $-10.88$ $638.79$ $638.80$ H $1580+10.92$ $-10.88$ $638.78$ $638.82$ I $1580+20.92$ $-10.88$ $638.76$ $638.83$ J $1580+20.92$ $-10.88$ $638.76$ $638.82$ I $1580+20.92$ $-10.88$ $638.76$ $638.82$ J $1580+20.92$ $-10.88$ $638.74$ $638.82$ K $1580+40.92$ $-10.88$ $638.71$ $638.80$ L $1580+50.92$ $-10.88$ $638.67$ $638.76$ M $1580+50.92$ $-10.88$ $638.62$ $638.69$ N $1580+60.92$ $-10.88$ $638.62$ $638.61$ O $1580+80.92$ $-10.88$ $638.49$ $638.52$ $\&$ Brg, Pier No. 2 $1580+95.92$ $-10.88$ $638.29$ $638.29$ O $1581+55.92$ $-10.88$ $638.20$ $638.21$ R $1581+55.92$ $-10.88$ $637.99$ $638.01$ T $1581+55.92$ $-10.88$ $637.87$ $637.89$ U $1581+55.92$ $-10.88$ $637.74$ $637.75$ $\&$ Brg, South Abut. $1581+69.23$ $-10.88$ $637.53$ $637.53$	Ε	1579+67.61	- 10.88	638.75	638.76
€ Brg. Pier No. 1         1579+90.92         -10.88         638.79         638.79           G         1580+00.92         -10.88         638.79         638.80           H         1580+10.92         -10.88         638.78         638.82           I         1580+20.92         -10.88         638.76         638.83           J         1580+20.92         -10.88         638.76         638.82           K         1580+30.92         -10.88         638.74         638.82           K         1580+40.92         -10.88         638.71         638.80           L         1580+50.92         -10.88         638.67         638.76           M         1580+60.92         -10.88         638.62         638.69           M         1580+70.92         -10.88         638.62         638.69           N         1580+80.92         -10.88         638.49         638.52           Ø         1580+80.92         -10.88         638.29         638.29           Ø         1580+95.92         -10.88         638.29         638.29           Ø         1581+55.92         -10.88         638.29         638.29           Ø         1581+55.92         -10.88         637	F	1579+77.61	- 10.88	638.77	638.77
G         1580+00.92         -10.88         638.79         638.80           H         1580+10.92         -10.88         638.78         638.82           I         1580+20.92         -10.88         638.76         638.83           J         1580+20.92         -10.88         638.76         638.83           J         1580+30.92         -10.88         638.74         638.82           K         1580+40.92         -10.88         638.71         638.80           L         1580+50.92         -10.88         638.67         638.76           M         1580+60.92         -10.88         638.62         638.69           N         1580+70.92         -10.88         638.56         638.61           O         1580+80.92         -10.88         638.49         638.52           & Brg. Pier No. 2         1580+95.92         -10.88         638.38         638.38           P         1581+05.92         -10.88         638.29         638.29           O         1581+35.92         -10.88         638.29         638.29           O         1581+35.92         -10.88         638.10         638.11           S         1581+35.92         -10.88         637	© Brg. Pier No. 1	1579+90.92	- 10.88	638.79	638.79
H         1580+10.92         -10.88         638.78         638.82           I         1580+20.92         -10.88         638.76         638.83           J         1580+30.92         -10.88         638.76         638.83           J         1580+30.92         -10.88         638.74         638.82           K         1580+40.92         -10.88         638.71         638.80           L         1580+50.92         -10.88         638.67         638.76           M         1580+60.92         -10.88         638.62         638.69           N         1580+70.92         -10.88         638.56         638.61           O         1580+80.92         -10.88         638.56         638.52           @ Brg. Pier No. 2         1580+95.92         -10.88         638.38         638.38           P         1581+05.92         -10.88         638.29         638.29           O         1581+52.92         -10.88         638.20         638.21           R         1581+52.92         -10.88         637.99         638.01           S         1581+35.92         -10.88         637.87         637.89           U         1581+45.92         -10.88         637	G	1580+00.92	- 10.88	638.79	638.80
I $1580 \cdot 20.92$ $-10.88$ $638.76$ $638.83$ J $1580 \cdot 30.92$ $-10.88$ $638.74$ $638.82$ K $1580 \cdot 40.92$ $-10.88$ $638.71$ $638.80$ L $1580 \cdot 50.92$ $-10.88$ $638.67$ $638.76$ M $1580 \cdot 60.92$ $-10.88$ $638.62$ $638.69$ N $1580 \cdot 60.92$ $-10.88$ $638.62$ $638.69$ N $1580 \cdot 70.92$ $-10.88$ $638.56$ $638.61$ O $1580 \cdot 80.92$ $-10.88$ $638.49$ $638.52$ $Q$ Brg. Pier No. 2 $1580 \cdot 95.92$ $-10.88$ $638.49$ $638.29$ O $1581 \cdot 55.92$ $-10.88$ $638.29$ $638.29$ O $1581 \cdot 55.92$ $-10.88$ $638.20$ $638.21$ R $1581 \cdot 55.92$ $-10.88$ $637.99$ $638.01$ T $1581 \cdot 45.92$ $-10.88$ $637.87$ $637.89$ U $1581 \cdot 55.92$ $-10.88$ $637.74$ $637.75$ $Q$ Brg. South Abut. $1581 \cdot 69.23$ $-10.88$ $637.53$ $637.53$	Н	1580+10.92	- 10.88	638.78	638.82
J $1580 \cdot 30.92$ $-10.88$ $638.74$ $638.82$ K $1580 \cdot 40.92$ $-10.88$ $638.71$ $638.80$ L $1580 \cdot 50.92$ $-10.88$ $638.67$ $638.76$ M $1580 \cdot 60.92$ $-10.88$ $638.62$ $638.69$ N $1580 \cdot 70.92$ $-10.88$ $638.62$ $638.69$ N $1580 \cdot 70.92$ $-10.88$ $638.56$ $638.61$ O $1580 \cdot 80.92$ $-10.88$ $638.49$ $638.52$ $\ell$ Brg. Pier No. 2 $1580 \cdot 95.92$ $-10.88$ $638.29$ $638.29$ P $1581 \cdot 05.92$ $-10.88$ $638.29$ $638.29$ O $1581 \cdot 15.92$ $-10.88$ $638.20$ $638.21$ R $1581 \cdot 25.92$ $-10.88$ $637.99$ $638.01$ T $1581 \cdot 35.92$ $-10.88$ $637.79$ $638.01$ T $1581 \cdot 45.92$ $-10.88$ $637.74$ $637.75$ $\ell$ Brg. South Abut. $1581 \cdot 69.23$ $-10.88$ $637.55$ $637.55$	Ι	1580+20.92	- 10.88	638.76	638.83
K         1580+40.92         -10.88         638.71         638.80           L         1580+50.92         -10.88         638.67         638.76           M         1580+60.92         -10.88         638.62         638.69           N         1580+70.92         -10.88         638.62         638.69           N         1580+70.92         -10.88         638.56         638.61           O         1580+80.92         -10.88         638.49         638.52           ℓ Brg. Pier No. 2         1580+95.92         -10.88         638.38         638.38           P         1581+05.92         -10.88         638.29         638.29           O         1581+5.92         -10.88         638.20         638.21           R         1581+25.92         -10.88         638.10         638.11           S         1581+35.92         -10.88         637.99         638.01           T         1581+45.92         -10.88         637.87         637.89           U         1581+55.92         -10.88         637.56         637.55           ℓ Brg. South Abut.         1581+69.23         -10.88         637.56         637.55           Bk. of South Abut.         1581+70.92	J	1580+30.92	- 10.88	638.74	6 <b>38.8</b> 2
L $1580 \cdot 50.92$ $-10.88$ $638.67$ $638.76$ M $1580 \cdot 60.92$ $-10.88$ $638.62$ $638.69$ N $1580 \cdot 70.92$ $-10.88$ $638.56$ $638.61$ O $1580 \cdot 80.92$ $-10.88$ $638.49$ $638.52$ $\emptyset$ Brg. Pier No. 2 $1580 \cdot 95.92$ $-10.88$ $638.38$ $638.38$ P $1581 \cdot 05.92$ $-10.88$ $638.29$ $638.29$ O $1581 \cdot 15.92$ $-10.88$ $638.29$ $638.29$ D $1581 \cdot 15.92$ $-10.88$ $638.20$ $638.21$ R $1581 \cdot 25.92$ $-10.88$ $638.10$ $638.11$ S $1581 \cdot 35.92$ $-10.88$ $637.99$ $638.01$ T $1581 \cdot 45.92$ $-10.88$ $637.87$ $637.89$ U $1581 \cdot 55.92$ $-10.88$ $637.74$ $637.75$ $\emptyset$ Brg. South Abut. $1581 \cdot 69.23$ $-10.88$ $637.53$ $637.53$	К	1580+40.92	- 10.88	638.71	638.80
M         1580+60.92         -10.88         638.62         638.69           N         1580+70.92         -10.88         638.56         638.61           O         1580+80.92         -10.88         638.56         638.61           Q         1580+80.92         -10.88         638.49         638.52           𝔅 Brg. Pier No. 2         1580+95.92         -10.88         638.38         638.38           P         1581+05.92         -10.88         638.29         638.29           O         1581+15.92         -10.88         638.20         638.21           R         1581+25.92         -10.88         638.10         638.11           S         1581+35.92         -10.88         637.99         638.01           T         1581+45.92         -10.88         637.87         637.89           U         1581+55.92         -10.88         637.74         637.75           𝔅 Brg. South Abut.         1581+69.23         -10.88         637.56         637.56           Bk. of South Abut.         1581+70.92         -10.88         637.53         637.53	L	1580+50.92	- 10.88	638.67	638.76
N         1580+70.92         -10.88         638.56         638.61           0         1580+80.92         -10.88         638.49         638.52           € Brg. Pier No. 2         1580+95.92         -10.88         638.38         638.38           P         1581+05.92         -10.88         638.29         638.29           0         1581+15.92         -10.88         638.29         638.29           0         1581+15.92         -10.88         638.20         638.21           R         1581+25.92         -10.88         638.10         638.11           S         1581+35.92         -10.88         637.99         638.01           T         1581+45.92         -10.88         637.87         637.89           U         1581+55.92         -10.88         637.74         637.75           € Brg. South Abut.         1581+69.23         -10.88         637.56         637.56           Bk. of South Abut.         1581+70.92         -10.88         637.53         637.53	М	1580+60.92	- 10.88	638.62	638.69
0         1580+80.92         -10.88         638.49         638.52           € Brg. Pier No. 2         1580+95.92         -10.88         638.38         638.38           P         1581+05.92         -10.88         638.29         638.29           0         1581+15.92         -10.88         638.20         638.21           R         1581+25.92         -10.88         638.10         638.11           S         1581+35.92         -10.88         637.99         638.01           T         1581+45.92         -10.88         637.87         637.89           U         1581+55.92         -10.88         637.74         637.75           € Brg. South Abut.         1581+69.23         -10.88         637.53         637.53	N	1580+70.92	- 10.88	638.56	638.61
€ Brg. Pier No. 2         1580+95.92         -10.88         638.38         638.38           P         1581+05.92         -10.88         638.29         638.29           0         1581+15.92         -10.88         638.20         638.21           R         1581+25.92         -10.88         638.10         638.11           S         1581+35.92         -10.88         637.99         638.01           T         1581+45.92         -10.88         637.87         637.89           U         1581+55.92         -10.88         637.74         637.75           € Brg. South Abut.         1581+69.23         -10.88         637.56         637.56           Bk. of South Abut.         1581+70.92         -10.88         637.53         637.53	0	1580+80.92	- 10.88	638.49	638.52
P         1581+05.92         -10.88         638.29         638.29           0         1581+15.92         -10.88         638.20         638.21           R         1581+25.92         -10.88         638.10         638.11           S         1581+35.92         -10.88         637.99         638.01           T         1581+45.92         -10.88         637.87         637.89           U         1581+55.92         -10.88         637.74         637.75           E Brg. South Abut.         1581+69.23         -10.88         637.56         637.56           Bk. of South Abut.         1581+70.92         -10.88         637.53         637.53	€ Brg. Pier No. 2	1580+95.92	- 10.88	638.38	638.38
0         1581+15.92         -10.88         638.20         638.21           R         1581+25.92         -10.88         638.10         638.11           S         1581+35.92         -10.88         637.99         638.01           T         1581+45.92         -10.88         637.87         637.89           U         1581+55.92         -10.88         637.74         637.75           E Brg. South Abut.         1581+69.23         -10.88         637.56         637.56           Bk. of South Abut.         1581+70.92         -10.88         637.53         637.53	Р	1581+05.92	- 10 <b>.</b> 88	638.29	638.29
R         1581+25.92         -10.88         638.10         638.11           S         1581+35.92         -10.88         637.99         638.01           T         1581+45.92         -10.88         637.87         637.89           U         1581+55.92         -10.88         637.74         637.75           E Brg. South Abut.         1581+69.23         -10.88         637.56         637.56           Bk. of South Abut.         1581+70.92         -10.88         637.53         637.53	0	1581+15.92	- 10.88	638.20	638.21
S         1581+35.92         -10.88         637.99         638.01           T         1581+45.92         -10.88         637.87         637.89           U         1581+55.92         -10.88         637.74         637.75           E Brg. South Abut.         1581+69.23         -10.88         637.56         637.56           Bk. of South Abut.         1581+70.92         -10.88         637.53         637.53	R	1581+25.92	- 10.88	638.10	638.11
T         1581+45.92         -10.88         637.87         637.89           U         1581+55.92         -10.88         637.74         637.75           E Brg. South Abut.         1581+69.23         -10.88         637.56         637.56           Bk. of South Abut.         1581+70.92         -10.88         637.53         637.53	S	1581+35.92	- 10.88	637.99	638.01
U         1581+55.92         -10.88         637.74         637.75           € Brg. South Abut.         1581+69.23         -10.88         637.56         637.56           Bk. of South Abut.         1581+70.92         -10.88         637.53         637.53	Т	1581+45.92	- 10.88	637.87	637.89
€ Brg. South Abut.         I581+69.23         - 10.88         637.56         637.56           Bk. of South Abut.         I581+70.92         - 10.88         637.53         637.53	U	1581+55.92	- 10.88	637.74	637.75
Bk. of South Abut. 1581+70.92 - 10.88 637.53 637.53	€ Brg. South Abut.	1581+69.23	- 10.88	637.56	637.56
	Bk. of South Abut.	1581+70.92	- 10.88	637.53	637.53

# <u>GIRDER 3</u>

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Bk. of North Abut.	1579+14.64	- 3.63	638.60	638.60
€ Brg. North Abut.	1579+16.33	- 3.63	638.61	638.61
А	<i>1579+26.33</i>	- 3.63	6 <b>38.</b> 69	638.70
В	1579+36.33	- 3.63	6 <b>38.</b> 75	638.77
С	1579+46.33	- 3.63	6 <b>38.</b> 79	6 <b>38.8</b> 2
D	1579+56.33	- 3.63	638.83	638.85
E	1579+66.33	- 3.63	6 <b>38.8</b> 6	638.87
F	1579+76.33	- 3.63	6 <b>38.88</b>	638.88
€ Brg. Pier No. 1	1579+89.64	- 3.63	638.90	638.90
G	1579+99.64	- 3.63	638.90	638.92
Н	1580+09.64	- 3.63	6 <b>38.8</b> 9	638.93
Ι	1580+19.64	- 3.63	638.88	638.94
J	1580+29.64	- 3.63	6 <b>38.8</b> 6	638.94
ĸ	1580+39.64	- 3.63	638.82	638.92
L	1580+49.64	- 3.63	6 <b>38.</b> 78	638.87
М	1580+59.64	- 3.63	638.74	638.81
N	1580+69.64	- 3.63	638.68	638.73
0	1580+79.64	- 3.63	638.62	6 <b>38.</b> 65
⊈ Brg. Pier No. 2	1580+94.64	- 3.63	6 <b>38.</b> 50	638.50
Р	1581+04.64	- 3.63	638.42	638.42
0	1581+14.64	- 3.63	638.33	638.33
R	1581+24.64	- 3.63	6 <b>38.</b> 22	638.24
S	1581+34.64	- 3.63	6 <i>38.11</i>	638.14
Т	1581+44.64	- 3.63	638.00	638.02
U	1581+54.64	- 3.63	637.87	637.88
E Brg. South Abut.	1581+67.95	- 3.63	637.69	637.69
Bk. of South Abut.	1581+69.64	- 3.63	637.66	637.66

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Location         Station         Offset         Theoretical Grade Elevation         Theoretical Field for Dead Load Deflection           Bk. of North Abut.         1579+14.00         0.00         638.67         638.67           € Brg. North Abut.         1579+15.69         0.00         638.68         638.68           A         1579+25.69         0.00         638.80         638.76           B         1579+35.69         0.00         638.80         638.82           C         1579+55.69         0.00         638.92         638.93           F         1579+55.69         0.00         638.92         638.93           F         1579+55.69         0.00         638.92         638.93           F         1579+75.69         0.00         638.92         638.93           F         1579+75.69         0.00         638.95         638.93           G         1579+99.00         0.00         638.95         638.93           G         1579+99.00         0.00         638.95         638.97           H         1580+9.00         0.00         638.95         638.97           J         1580+9.00         0.00         638.94         638.93           L         1580					
Bk. of North Abut.         1579+14.00         0.00         638.67         638.67           € Brg. North Abut.         1579+15.69         0.00         638.68         638.68           A         1579+25.69         0.00         638.75         638.76           B         1579+35.69         0.00         638.80         638.82           C         1579+45.69         0.00         638.85         638.87           D         1579+55.69         0.00         638.89         638.90           E         1579+65.69         0.00         638.92         638.93           F         1579+75.69         0.00         638.95         638.94           € Brg. Pier No. 1         1579+89.00         0.00         638.95         638.97           G         1579+90.00         0.00         638.94         639.00           J         1580+9.00         0.00         638.94         639.00           J         1580+9.00         0.00         638.84         638.99           I         1580+9.00         0.00         638.84         638.99           I         1580+9.00         0.00         638.84         638.99           J         1580+9.00         0.00         638.	Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevation Adjusted for Dead Load Deflection
€ Brg. North Abut.         1579+15.69         0.00         638.68         638.68           A         1579+25.69         0.00         638.75         638.76           B         1579+35.69         0.00         638.80         638.82           C         1579+45.69         0.00         638.80         638.82           D         1579+55.69         0.00         638.89         638.90           E         1579+55.69         0.00         638.92         638.93           F         1579+75.69         0.00         638.92         638.93           € Brg. Pier No. 1         1579+75.69         0.00         638.95         638.95           G         1579+79.00         0.00         638.95         638.97           H         1580+99.00         0.00         638.95         638.99           I         1580+90.00         0.00         638.94         639.00           J         1580+90.00         0.00         638.84         638.93           L         1580+90.00         0.00         638.84         638.93           J         1580+90.00         0.00         638.84         638.93           L         1580+90.00         0.00         638.84	Bk. of North Abut.	1579+14.00	0.00	638.67	638.67
A         1579+25.69         0.00         638.75         638.76           B         1579+35.69         0.00         638.80         638.82           C         1579+45.69         0.00         638.85         638.87           D         1579+55.69         0.00         638.89         638.90           E         1579+55.69         0.00         638.89         638.93           F         1579+75.69         0.00         638.92         638.93           § Brg. Pier No. 1         1579+89.00         0.00         638.95         638.97           G         1579+99.00         0.00         638.95         638.97           H         1580+09.00         0.00         638.94         639.00           J         1580+9.00         0.00         638.94         639.00           J         1580+9.00         0.00         638.94         639.00           J         1580+9.00         0.00         638.84         638.93           L         1580+9.00         0.00         638.84         638.93           L         1580+9.00         0.00         638.84         638.93           L         1580+9.00         0.00         638.74         638.80	€ Brg. North Abut.	1579+15.69	0.00	638.68	638.68
B         1579+35.69         0.00         638.80         638.82           C         1579+45.69         0.00         638.85         638.87           D         1579+55.69         0.00         638.89         638.90           E         1579+65.69         0.00         638.89         638.93           F         1579+75.69         0.00         638.92         638.93           § Brg. Pier No. 1         1579+99.00         0.00         638.95         638.97           G         1579+99.00         0.00         638.95         638.99           I         1580+09.00         0.00         638.95         638.99           I         1580+9.00         0.00         638.94         639.00           J         1580+9.00         0.00         638.94         639.00           J         1580+9.00         0.00         638.84         638.99           L         1580+9.00         0.00         638.84         638.93           J         1580+9.00         0.00         638.84         638.93           L         1580+9.00         0.00         638.84         638.93           M         1580+9.00         0.00         638.74         638.80     <	A	1579+25.69	0.00	638.75	638.76
C         1579+45.69         0.00         638.85         638.87           D         1579+55.69         0.00         638.89         638.90           E         1579+65.69         0.00         638.92         638.93           F         1579+75.69         0.00         638.94         638.94           E         1579+75.69         0.00         638.95         638.94           E         Brg. Pier No. 1         1579+99.00         0.00         638.95         638.97           G         1579+99.00         0.00         638.95         638.97           H         1580+09.00         0.00         638.95         638.99           I         1580+9.00         0.00         638.94         639.00           J         1580+9.00         0.00         638.94         639.00           J         1580+9.00         0.00         638.84         638.93           L         1580+9.00         0.00         638.84         638.93           L         1580+9.00         0.00         638.84         638.93           L         1580+9.00         0.00         638.87         638.87           M         1580+9.00         0.00         638.88	В	1579+35.69	0.00	638.80	638.82
D         1579+55.69         0.00         638.89         638.90           E         1579+65.69         0.00         638.92         638.93           F         1579+75.69         0.00         638.94         638.94           € Brg. Pier No. 1         1579+89.00         0.00         638.95         638.95           G         1579+99.00         0.00         638.95         638.97           H         1580+09.00         0.00         638.95         638.99           I         1580+19.00         0.00         638.94         639.00           J         1580+29.00         0.00         638.94         639.00           J         1580+29.00         0.00         638.84         638.93           L         1580+59.00         0.00         638.74         638.80           O         1580+79.00         0.00         638.74         638.80           P         1581+0.00         0.00         638.75         638.71 <td>С</td> <td>1579+45.69</td> <td>0.00</td> <td>638.85</td> <td>638.87</td>	С	1579+45.69	0.00	638.85	638.87
E         1579+65.69         0.00         638.92         638.93           F         1579+75.69         0.00         638.94         638.94           € Brg. Pier No. 1         1579+89.00         0.00         638.95         638.95           G         1579+99.00         0.00         638.95         638.97           H         1580+09.00         0.00         638.95         638.99           I         1580+19.00         0.00         638.94         639.00           J         1580+29.00         0.00         638.94         639.00           J         1580+29.00         0.00         638.84         638.93           L         1580+29.00         0.00         638.84         638.93           K         1580+29.00         0.00         638.84         638.93           L         1580+29.00         0.00         638.84         638.93           L         1580+30.00         0.00         638.84         638.93           M         1580+59.00         0.00         638.74         638.80           O         1580+79.00         0.00         638.74         638.80           P         1581+04.00         0.00         638.75         638.71 <td>D</td> <td>1579+55.69</td> <td>0.00</td> <td>638.89</td> <td>638.90</td>	D	1579+55.69	0.00	638.89	638.90
F         1579+75.69         0.00         638.94         638.94           € Brg. Pier No. 1         1579+89.00         0.00         638.95         638.95           G         1579+99.00         0.00         638.95         638.97           H         1580+09.00         0.00         638.95         638.99           I         1580+19.00         0.00         638.94         639.00           J         1580+29.00         0.00         638.94         639.00           K         1580+29.00         0.00         638.84         638.98           L         1580+29.00         0.00         638.84         638.93           M         1580+29.00         0.00         638.84         638.93           L         1580+90.00         0.00         638.84         638.93           M         1580+59.00         0.00         638.74         638.80           O         1580+79.00         0.00         638.74         638.80           Ø         1580+79.00         0.00         638.74         638.80           Ø         1580+94.00         0.00         638.75         638.71           Ø         1581+40.00         0.00         638.48         638.48 <td>E</td> <td>1579+65.69</td> <td>0.00</td> <td>638.92</td> <td>638.93</td>	E	1579+65.69	0.00	638.92	638.93
€ Brg. Pier No. I         1579+89.00         0.00         638.95         638.95           G         1579+99.00         0.00         638.96         638.97           H         1580+09.00         0.00         638.95         638.99           I         1580+19.00         0.00         638.94         639.00           J         1580+29.00         0.00         638.84         639.00           K         1580+39.00         0.00         638.84         638.98           L         1580+49.00         0.00         638.84         638.93           M         1580+59.00         0.00         638.84         638.93           M         1580+59.00         0.00         638.80         638.71           M         1580+79.00         0.00         638.74         638.80           O         1580+79.00         0.00         638.74         638.80           Ø         1580+79.00         0.00         638.74         638.71           Ø         1580+94.00         0.00         638.73         638.71           Ø         1581+40.00         0.00         638.48         638.48           Ø         1581+41.00         0.00         638.48         638.49 <td>F</td> <td>1579+75.69</td> <td>0.00</td> <td>638.94</td> <td>638.94</td>	F	1579+75.69	0.00	638.94	638.94
G         1579+99.00         0.00         638.96         638.97           H         1580+09.00         0.00         638.95         638.99           I         1580+19.00         0.00         638.94         639.00           J         1580+29.00         0.00         638.94         639.00           K         1580+29.00         0.00         638.84         638.98           L         1580+49.00         0.00         638.84         638.93           M         1580+59.00         0.00         638.84         638.93           M         1580+69.00         0.00         638.74         638.80           0         1580+79.00         0.00         638.74         638.80           0         1580+79.00         0.00         638.74         638.80           0         1580+79.00         0.00         638.74         638.71           §         Brg. Pier No. 2         1580+94.00         0.00         638.75         638.57           0         1581+04.00         0.00         638.48         638.48           0         1581+40.00         0.00         638.48         638.40           R         1581+24.00         0.00         638.18	€ Brg. Pier No. 1	1579+89.00	0.00	638.95	638.95
H         1580+09.00         0.00         638.95         638.99           I         1580+19.00         0.00         638.94         639.00           J         1580+29.00         0.00         638.91         639.00           K         1580+39.00         0.00         638.88         638.98           L         1580+49.00         0.00         638.84         638.93           M         1580+59.00         0.00         638.84         638.93           M         1580+69.00         0.00         638.74         638.80           O         1580+79.00         0.00         638.74         638.80           Ø         1580+79.00         0.00         638.74         638.71           Ø         1580+79.00         0.00         638.74         638.71           Ø         1580+79.00         0.00         638.75         638.71           Ø         1580+94.00         0.00         638.48         638.48           Ø         1581+04.00         0.00         638.48         638.48           Ø         1581+40.00         0.00         638.19         638.40           R         1581+34.00         0.00         638.18         638.20	G	1579+99.00	0.00	638.96	638.97
I       1580+19.00       0.00       638.94       639.00         J       1580+29.00       0.00       638.91       639.00         K       1580+39.00       0.00       638.88       638.98         L       1580+49.00       0.00       638.84       638.93         M       1580+59.00       0.00       638.80       638.87         N       1580+69.00       0.00       638.68       638.71         Ø       1580+79.00       0.00       638.68       638.71         Ø       1580+79.00       0.00       638.68       638.71         Ø       1580+79.00       0.00       638.68       638.71         Ø       1580+94.00       0.00       638.68       638.71         Ø       1581+04.00       0.00       638.48       638.48         Ø       1581+40.00       0.00       638.48       638.48         Ø       1581+34.00       0.00       638.29       638.30         S       1581+34.00       0.00       638.29       638.30         G       1581+34.00       0.00       638.68       638.20         T       1581+34.00       0.00       637.73       637.75 <t< td=""><td>Н</td><td>1580+09.00</td><td>0.00</td><td>638.95</td><td>638.99</td></t<>	Н	1580+09.00	0.00	638.95	638.99
J         1580+29.00         0.00         638.91         639.00           K         1580+39.00         0.00         638.88         638.98           L         1580+49.00         0.00         638.84         638.93           M         1580+59.00         0.00         638.84         638.93           N         1580+69.00         0.00         638.80         638.87           O         1580+79.00         0.00         638.68         638.71           € Brg. Pier No. 2         1580+94.00         0.00         638.68         638.71           P         1580+94.00         0.00         638.48         638.48           O         1581+04.00         0.00         638.48         638.48           O         1581+40.00         0.00         638.29         638.30           R         1581+24.00         0.00         638.29         638.30           S         1581+34.00         0.00         638.88         638.20           T         1581+44.00         0.00         638.86         638.08           U         1581+54.00         0.00         638.73         637.95           E Brg. South Abut.         1581+67.31         0.00         637.75	Ι	1580+19.00	0.00	638.94	639.00
K         1580+39.00         0.00         638.88         638.98           L         1580+49.00         0.00         638.84         638.93           M         1580+59.00         0.00         638.80         638.87           N         1580+69.00         0.00         638.80         638.87           O         1580+69.00         0.00         638.68         638.71           Ø         1580+79.00         0.00         638.68         638.71           Ø         1580+94.00         0.00         638.68         638.71           Ø         1581+04.00         0.00         638.48         638.48           O         1581+04.00         0.00         638.48         638.49           O         1581+24.00         0.00         638.89         638.40           R         1581+34.00         0.00         638.88         638.20           T         1581+34.00         0.00         638.88         638.08           U         1581+54.00         0.00         638.73         637.95           E         Brg. South Abut.         1581+67.31         0.00         637.75         637.75           Bk. of South Abut.         1581+69.00         0.00 <td< td=""><td>J</td><td>1580+29.00</td><td>0.00</td><td>638.91</td><td>639.00</td></td<>	J	1580+29.00	0.00	638.91	639.00
L         1580+49.00         0.00         638.84         638.93           M         1580+59.00         0.00         638.80         638.87           N         1580+69.00         0.00         638.74         638.80           O         1580+79.00         0.00         638.68         638.71           Egg. Pier No. 2         1580+94.00         0.00         638.68         638.71           P         1581+04.00         0.00         638.48         638.49           O         1581+10.00         0.00         638.48         638.40           R         1581+24.00         0.00         638.83         638.40           R         1581+34.00         0.00         638.83         638.20           T         1581+34.00         0.00         638.18         638.20           T         1581+34.00         0.00         638.18         638.20           T         1581+34.00         0.00         638.18         638.08           U         1581+54.00         0.00         637.93         637.95           Egg. South Abut.         1581+67.31         0.00         637.75         637.75           Bk. of South Abut.         1581+69.00         0.00         637.	ĸ	1580+39.00	0.00	638.88	638.98
M         1580+59.00         0.00         638.80         638.87           N         1580+69.00         0.00         638.74         638.80           0         1580+79.00         0.00         638.68         638.71           © Brg. Pier No. 2         1580+94.00         0.00         638.68         638.71           P         1581+04.00         0.00         638.48         638.48           0         1581+14.00         0.00         638.29         638.30           R         1581+24.00         0.00         638.18         638.20           T         1581+24.00         0.00         638.18         638.20           T         1581+24.00         0.00         638.18         638.20           T         1581+34.00         0.00         638.18         638.20           T         1581+44.00         0.00         637.93         637.95           U         1581+54.00         0.00         637.75         637.75           Bk. of South Abut.         1581+67.31         0.00         637.73         637.73	L	1580+49.00	0.00	638.84	638.93
N         1580+69,00         0.00         638,74         638,80           0         1580+79,00         0.00         638,68         638,71           Q Brg. Pier No. 2         1580+94,00         0.00         638,57         638,57           P         1581+04,00         0.00         638,48         638,48           0         1581+14,00         0.00         638,29         638,30           R         1581+24,00         0.00         638,18         638,20           S         1581+34,00         0.00         638,06         638,08           U         1581+44,00         0.00         638,06         638,08           U         1581+54,00         0.00         637,93         637,95           Q Brg. South Abut.         1581+67,31         0.00         637,75         637,75           Bk. of South Abut.         1581+69,00         0.00         637,73         637,73	М	1580+59.00	0.00	638.80	638.87
0         1580+79,00         0.00         638,68         638,71           € Brg, Pier No. 2         1580+94,00         0.00         638,57         638,57           P         1581+04,00         0.00         638,48         638,48           0         1581+14,00         0.00         638,29         638,40           R         1581+24,00         0.00         638,29         638,30           S         1581+34,00         0.00         638,18         638,20           T         1581+44,00         0.00         638,06         638,08           U         1581+54,00         0.00         637,93         637,95           € Brg. South Abut.         1581+67,31         0.00         637,75         637,75           Bk. of South Abut.         1581+69,00         0.00         637,73         637,73	N	1580+69.00	0.00	638.74	638.80
€ Brg. Pier No. 2         1580+94.00         0.00         638.57         638.57           P         1581+04.00         0.00         638.48         638.48           0         1581+14.00         0.00         638.39         638.40           R         1581+24.00         0.00         638.29         638.30           S         1581+34.00         0.00         638.18         638.20           T         1581+44.00         0.00         638.06         638.08           U         1581+54.00         0.00         637.93         637.95           € Brg. South Abut.         1581+67.31         0.00         637.75         637.75           Bk. of South Abut.         1581+69.00         0.00         637.73         637.73	0	1580+79.00	0.00	638.68	638.71
P         1581+04.00         0.00         638.48         638.48           0         1581+14.00         0.00         638.39         638.40           R         1581+24.00         0.00         638.29         638.30           S         1581+34.00         0.00         638.18         638.20           T         1581+44.00         0.00         638.06         638.08           U         1581+54.00         0.00         637.93         637.95           & Brg. South Abut.         1581+67.31         0.00         637.75         637.75           Bk. of South Abut.         1581+69.00         0.00         637.73         637.73	€ Brg. Pier No. 2	1580+94.00	0.00	638.57	6 <b>38.</b> 57
0         1581+14.00         0.00         638.39         638.40           R         1581+24.00         0.00         638.29         638.30           S         1581+34.00         0.00         638.18         638.20           T         1581+44.00         0.00         638.06         638.08           U         1581+54.00         0.00         637.93         637.95           & Brg. South Abut.         1581+67.31         0.00         637.75         637.75           Bk. of South Abut.         1581+69.00         0.00         637.73         637.73	P	1581+04.00	0.00	638.48	638.48
R         1581+24.00         0.00         638.29         638.30           S         1581+34.00         0.00         638.18         638.20           T         1581+44.00         0.00         638.06         638.08           U         1581+54.00         0.00         637.93         637.95           & Brg. South Abut.         1581+67.31         0.00         637.75         637.75           Bk. of South Abut.         1581+69.00         0.00         637.73         637.73	0	1581+14.00	0.00	638.39	638.40
S         1581+34.00         0.00         638.18         638.20           T         1581+44.00         0.00         638.06         638.08           U         1581+54.00         0.00         637.93         637.95           & Brg. South Abut.         1581+67.31         0.00         637.75         637.75           Bk. of South Abut.         1581+69.00         0.00         637.73         637.73	R	1581+24.00	0.00	638.29	638.30
T         1581+44.00         0.00         638.06         638.08           U         1581+54.00         0.00         637.93         637.95           End         Brg. South Abut.         1581+67.31         0.00         637.75         637.75           Bk. of South Abut.         1581+69.00         0.00         637.73         637.73	S	1581+34.00	0.00	638.18	638.20
U         1581+54.00         0.00         637.93         637.95           € Brg. South Abut.         1581+67.31         0.00         637.75         637.75           Bk. of South Abut.         1581+69.00         0.00         637.73         637.73	Т	1581+44.00	0.00	638.06	638.08
€ Brg. South Abut.         1581+67.31         0.00         637.75         637.75           Bk. of South Abut.         1581+69.00         0.00         637.73         637.73	U	1581+54.00	0.00	637.93	637.95
Bk. of South Abut. 1581+69.00 0.00 637.73 637.73	€ Brg. South Abut.	1581+67.31	0.00	637.75	637.75
	Bk. of South Abut.	1581+69.00	0.00	637.73	637.73

Farnsworth		DESIGNED - TCR/JCZ	REVISED		TOP OF DECK ELEVATIONS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
GROUP		CHECKED - JML	REVISED	STATE OF ILLINOIS		316	(116 BR)BR	BUREAU	91	39
2709 McGRAW DRIVE BLOOMINGTON ILLINOIS 61704		DRAWN - DJM	REVISED	DEPARTMENT OF TRANSPORTATION	51RUCIURE NU. 000-0187			CONTRAC	T NO.	6A19
(309) 663-8435 / info@f-w.com	DATE - 07/28/17	CHECKED - JML	REVISED		SHEET NO. B6 OF 32 SHEETS		ILLINOIS FED. A	ID PROJECT		

<u>GIRDER 4</u>

<u>GIRDER 5</u>

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Bk. of North Abut.	1579+13.36	3.63	638.75	6 <b>38.</b> 75
€ Brg. North Abut.	1579+15.05	3.63	638.75	6 <b>38.</b> 75
A	1579+25.05	3.63	638.80	638.82
В	1579+35.05	3.63	638.85	638.87
С	1579+45.05	3.63	638.88	638.90
D	1579+55.05	3.63	638.90	638.92
E	1579+65.05	3.63	638.92	638.93
F	1579+75.05	3.63	638.93	638.93
€ Brg. Pier No. 1	1579+88.36	3.63	638.93	638.93
G	1579+98.36	3.63	638.91	638.93
Н	1580+08.36	3.63	638.89	638.94
Ι	1580+18.36	3.63	638.88	6 <i>38.</i> 95
J	1580+28.36	3.63	638.86	638.94
ĸ	1580+38.36	3.63	638.83	638.92
L	1580+48.36	3.63	638.79	638.88
М	1580+58.36	3.63	638.74	638.82
N	1580+68.36	3.63	638.69	638.74
0	1580+78.36	3.63	638.63	6 <b>38.</b> 65
© Brg. Pier No. 2	1580+93.36	3.63	638.51	638.51
Р	1581+03.36	3.63	638.43	638.43
0	1581+13.36	3.63	638.34	638.35
R	1581+23.36	3.63	638.24	638.25
S	1581+33.36	3.63	638.13	6 <i>38.1</i> 5
Т	1581+43.36	3.63	638.01	638.03
U	1581+53.36	3.63	637.89	637.90
€ Brg. South Abut.	1581+66.67	3.63	637.71	637.71
Bk. of South Abut.	1581+68.36	3.63	637.68	637.68

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Bk. of North Abut.	1579+12.09	10.88	638.90	638.90
€ Brg. North Abut.	1579+13.78	10.88	638.90	638.90
А	1579+23.77	10.88	638.93	638.94
В	1579+33.77	10.88	638.94	638.96
С	1579+43.77	10.88	638.95	638.97
D	1579+53.77	10.88	638.95	638.96
E	1579+63.77	10.88	638.94	638.95
F	1579+73.77	10.88	638.92	6 <i>38.92</i>
€ Brg. Pier No. 1	1579+87.08	10.88	638.87	638.87
G	1579+97.08	10.88	638.83	6 <b>38.8</b> 5
Н	1580+07.08	10.88	638.78	6 <i>38.83</i>
Ι	1580+17.08	10.88	638.77	638.84
J	1580+27.08	10.88	638.75	638.83
К	1580+37.08	10.88	638.72	638.81
L	1580+47.08	10.88	638.68	638.77
М	1580+57.08	10.88	638.64	638.71
N	1580+67.08	10.88	638.58	638.64
0	1580+77.08	10.88	638.52	6 <b>38.</b> 55
€ Brg. Pier No. 2	1580+92.08	10.88	638.41	638.41
Р	1581+02.08	10.88	638.33	638.33
0	1581+12.08	10.88	638.24	638.24
R	1581+22.08	10.88	638.14	6 <i>38.1</i> 5
S	1581+32.08	10.88	638.03	638.05
Т	1581+42.08	10.88	637.91	637.94
U	1581+52.08	10.88	637.79	637.80
€ Brg. South Abut.	1581+65.39	10.88	637.61	637.61
Bk. of South Abut.	1581+67.08	10.88	637.59	637.59

# <u>GIRDER 6</u>

Location	Station	Offset	Theoretical Grade Elevation	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Bk. of North Abut.	1579+10.82	18.13	639.06	639.06
€ Brg. North Abut.	1579+12.51	18.13	639.06	639.06
А	1579+22.50	18.13	639.06	639.07
В	1579+32.50	18.13	639.05	639.07
С	1579+42.50	18.13	639.02	639.05
D	1579+52.50	18.13	639.00	639.01
E	1579+62.50	18.13	638.96	638.97
F	1579+72.50	18.13	638.91	638.91
€ Brg. Pier No. 1	1579+85.80	18.13	638.83	638.83
G	1579+95.80	18.13	638.76	638.78
Н	1580+05.80	18.13	638.68	638.72
Ι	1580+15.80	18.13	638.66	638.72
J	1580+25.80	18.13	638.64	638.72
κ	1580+35.80	18.13	638.61	638.70
L	1580+45.80	18.13	6 <b>38.</b> 57	638.66
М	1580+55.80	18.13	638.53	638.61
N	1580+65.80	18.13	638.48	638.53
0	1580+75.80	18.13	638.42	638.44
© Brg. Pier No. 2	1580+90.80	18.13	638.31	638.31
Р	1581+00.80	18.13	638.23	638.23
0	1581+10.80	18.13	638.14	638.14
R	1581+20.80	18.13	638.04	638.05
S	1581+30.80	18.13	637.93	637.95
Т	1581+40.80	18.13	637.82	637.84
U	1581+50.80	18.13	637.69	637.71
E Brg. South Abut.	1581+64.11	18.13	637.51	637.51
Bk. of South Abut.	1581+65.80	18.13	637.49	637.49

Farnsworth		DESIGNED - TCR/JCZ	REVISED		TOP OF DECK FLEVATIONS	F.A.P.	SECTION	COUNTY	TOTAL	SHEET
		CHECKED - JML	REVISED	STATE OF ILLINOIS		316 (	16 BR)BR	BUREAU	91	40
2709 McGRAW DRIVE		DRAWN - DJM	REVISED	DEPARTMENT OF TRANSPORTATION	STRUCTURE NU. 000-0187			CONTRACT	NO. 6	6A19
(309) 663-8435 / info@f-w.com	DATE - 07/28/17	CHECKED - JML	REVISED		SHEET NO. B7 OF 32 SHEETS		ILLINOIS FED. A	ID PROJECT		

### EAST CURB LINE / EAST FACE OF PARAPET

Location	Station	Offset	Theoretical Grade Elevation
N. End of North Appr.	1578+88.48	- 20.33	637.82
A	1578+98.53	- 20.38	637.99
В	1579+08.51	-20.00	638.16
S. End of North Appr.	1579+18.54	-20.00	638.30

# © ROADWAY, PROFILE GRADE LINE (P.G.L.) & STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevation
N. End of North Appr.	1578+85.04	0.00	638.44
A	1578+95.02	0.00	638.53
В	1579+05.02	0.00	638.61
S. End of North Appr.	1579+15.02	0.00	638.68

### EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevation
N. End of North Appr.	1578+87.06	- 12.00	638.07
А	1578+97.08	- 12.00	638.20
В	1579+07.11	- 12.00	638.33
S. End of North Appr.	1579+17.14	- 12.00	638.45

# WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevation
N. End of North Appr.	1578+83.02	12.00	638.80
A	1578+92.98	12.00	638.87
В	1579+02.94	12.00	638.90
S. End of North Appr.	1579+12.90	12.00	638.93

# WEST CURB LINE / WEST FACE OF PARAPET

Location	Station	Offset	Theoretical Grade Elevation
N. End of North Appr.	1578+81.59	20.56	639.06
А	1578+91.54	20.49	639.12
В	1579+01.56	20.02	639 <b>.</b> 11
S. End of North Appr.	1579+11.51	20.00	639.10

East Curb Line —

37,"



## EAST CURB LINE / EAST FACE OF PARAPET

Location	Station	Offset	Theoretical Grade Elevation
N. End of South Appr.	1581+71.51	-20.00	637.38
А	1581+81.51	-20.00	637.23
В	1581+91.58	-20.42	637.07
S. End of South Appr.	1582+01.58	-20.42	636.90

# ¢ ROADWAY, PROFILE GRADE LINE (P.G.L.) & STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevation
N. End of South Appr.	1581+67.98	0.00	637.74
А	1581+77.98	0.00	637.60
В	1581+87.98	0.00	637.44
S. End of South Appr.	1581+97.98	0.00	637.28

# WEST CURB LINE / WEST FACE OF PARAPET

Location	Station	Offset	Theoretical Grade Elevation
N. End of South Appr.	1581+64.46	20.00	637.48
А	1581+74.46	20.00	637.34
В	1581+84.38	20.42	6 <i>37.18</i>
S. End of South Appr.	1581+94.38	20.42	637.02



2709 McG BLOOMIN (309) 663-	COUP ROUP RAW DF GTON, I 8435 / in	RIVE ILLINOIS 61704	DATE - 07/28/17	CHECKED - JML DRAWN - DJM CHECKED - JML	REVIS REVIS REVIS	ED ED	D	STATE OF I EPARTMENT OF T	LLINOIS RANSPORTATION		-
	- 	osworth		DESIGNED - TCR/JC	Z REVIS	ED					<u> </u>
	Tra the	≠ nsverse dimensions Local Tangent © S	© Rt. L's to Sta. 1579+14.60.	<u>NORTH APPROAC</u>	<u> H SLAB PLAN</u>	Z - @>					
N	OTE	*	-	3 Spaces 👁 10'-0" = 30	2′-0"	1 <u>yp.</u>					
	8'-6 <sup>5</sup> 8"	West Curb L	ine		West Face of Parapet		<i>ه</i> ' - ۲"			8'-5"	
20'-6 <sup>3</sup> 8"	11'-11 <sup>3</sup> 4"	Stage Constru Line Local Ta Sta. 1575 West Edge of Pa	ction r_n			S. End of Sta. 1579	f North Appr. * 15.02 	Stage II Const.	Stage II Const. 20'-5"	12'-0"	
		East Ea N. End c Sta. 157	lge of Pavement of North Appr 8+85.04			H Sta. 19:514.60 Profile Line (P.	"021 021 Way & Grade G.L.)	Stage I Const.	Stage I Const. 20-5"	12'-0"	N. Enc Sta. 1!
	θ ,						Ø			8	

(B)

— East Face of Parapet

(A)

TOP OF APPROACH SLAB ELEVATIONS STRUCTURE NO. 006-0187 SHEET NO. B8 OF 32 SHEETS

# EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevation
N. End of South Appr.	1581+70,10	- 12.00	637.53
А	1581+80.10	- 12.00	637.38
В	1581+90.10	- 12.00	637.22
S. End of South Appr.	1582+00.10	- 12.00	637.06

# WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevation
N. End of South Appr.	1581+65.87	12.00	637.59
А	1581+75.87	12.00	637.44
В	1581+85.87	12.00	637.29
S. End of South Appr.	1581+95.87	12.00	637.13

(B)(A)— East Curb Line -East Edge of Pavement Stage Construction — S. End of South Appr. Sta. 1581+97.98 -West Curb Line Z – @ – SOUTH APPROACH SLAB PLAN COUNTYTOTAL<br/>SHEETSSHEET<br/>NO.BUREAU9141 F.A.P. RTE. SECTION

(116 BR)BR

ILLINOIS FED. AID PROJECT

316

CONTRACT NO. 66A19





a3(E)	1,006	#6	6′-6"	
04(E)	8	#5	21′-5″	
b(E)	506	#5	25'-4"	
bj(E)	360	#5	27'-8"	
b2(E)	88	#6	47'-8"	
d(E)	552	#5	5′-7"	ß
dį(E)	552	#5	8'-0"	L
e(E)	112	#4	14'-11"	
eį(E)	64	#4	12'-6"	
e2(E)	70	#4	15′-6"	_
e3(E)	8	#8	33'-0"	
e4(E)	12	#4	21′-8"	
e5(E)	8	#8	12'-6"	
e6(E)	6 #8		29′-10"	
e7(E)	8	#4	21′-3″	
m(E)	16	#6	21′-7"	
mį(E)	12	#6	3'-3"	
m2(E)	24	#6	6′-11"	
m3(E)	12	#6	3'-2"	
m4(E)	36	#5	4'-0"	/
s(E)	96	#5	8′-4"	п
sj(E)	96	#5	10′-10″	Ü
	Item		Unit	Quantity
Concret	'e		Cu Yd	377.6
Supersi	tructure		<i>cu. ru.</i>	5/7.0
Bridge	Deck G	rooving	Sq. Yd.	1,068
Protect	ive Coat	•	Sq. Yd.	1,336
Reinfor Fnoxy	cement Coated	Bars.	Pound	91.980

E DETAILS		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
006–0187	316 (116 BR)BR			BUREAU	43	
				CONTRACT	NO. 6	6A19
32 SHEETS	ILLINOIS FED. AID PROJECT					
						1 0000



DETAILS	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
006–0187	316	(116 BR)BR	BUREAU	91	44
			CONTRACT	NO. 6	6A19
32 SHEETS		ILLINOIS FED. A	ID PROJECT		
				2	1 0000



					_			
DETAILS	F.A.P. RTE	SEC	TION			COUNTY	TOTAL SHEETS	SHEET NO.
006–0187	316 (116 BR)BR				BUREAU	91	45	
						CONTRACT	NO. 6	6A19
32 SHEETS			ILLINOIS	FED.	٩ÌD	PROJECT		
								4 0000



CHECKED - JML

(Sheet 1 of 4)





Elevation						
A (West End)	B (East End)					
6 <b>36.</b> 85	635.62					



2709 MeGRAW DRIVE DRAWN - DJM REVISED DEPARTMENT OF TRANSPORTATION STRUCT	CIURE NO.
bc/commission/activity         DATE - 07/28/17         CHECKED - JML         REVISED	NO. B15 OF



9"

PLAN VIEW





(Reams.	36"	min	width.	72"	max	width)
(Deums:	30		wiuni;	12	1101.	wildini

Farnsworth		DESIGNED - TCR/JCZ	REVISED		PRECAST BRIDGE APPROACH SLAB	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
GROUP		CHECKED - JML	REVISED	STATE OF ILLINOIS		316	(116 BR)BR	BUREAU	91	49
2709 McGRAW DRIVE		DRAWN - DJM	REVISED	DEPARTMENT OF TRANSPORTATION	STRUCTURE NU. 006-0187			CONTRACT	NO. 6	6A19
Farnsworth           2709 McGRAW DRIVE           BLOOMMOTONI ILLINOIS 61704           (309) 663-8435 / Info@f-w.com           DATE - 07/28/17	CHECKED - JML	REVISED		SHEET NO. B16 OF 32 SHEETS		ILLINOIS FED. A	.D. AID PROJECT			

The precast bridge approach slab shall be according to Section 504 of the Standard Specifications and shall be paid for at the contract unit price per square foot for Precast Bridge Approach Slab.

Cast-in-place substitution of Precast Bridge Approach Slab is not allowed. Parapet concrete shall be paid for as Concrete Superstructure. Parapet and wearing surface reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.

Approach footing concrete shall be paid for as Concrete Structures. The top surface of precast bridge approach slabs shall be roughened to a depth of  ${}^{l}_{4}$ " according to the IDOT "Manual for Fabrication of Precast Prestressed Concrete Products."

After precast bridge approach slab has been erected, holes shall be drilled into abutment and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of precast slab and allowed to cure fully prior to grouting the lonaitudinal shear keys.

Two  $l_{B}$ " fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. Cost included with Precast Bridge Approach Slab.

A minimum 2  $l_2$ "  $\phi$  lifting pins shall be used to engage the lifting loops during handling.

Compressive strength of precast concrete, f'c shall be 6,000 psi. Compressive strength of precast concrete during initial lifting, f'ci shall be 5,000 psi.

Notes:

For additional parapet details, see Sheet BIO. Any concrete poured monolithically with the wearing surface, such as curbs, will not be paid for separately, but will be included in the cost of Concrete Wearing Surface, 5".

The strip seal shall be made continuous and shall have a minimum thickness of  $l_4$ ". The strip seal shall extend 6" beyond the edge of the approach slab

on each end. The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of

4 inches. The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge

rails will not be allowed. The inside of the Locking Edge Rail groove shall be free of weld residue. Locking Edge Rails may be spliced at slope discontinuities and stage

construction joints. The manufacturer's recommended installation methods shall be followed. All steel components shall be galvanized after fabrication according to

Article 520.03 of the Standard Specifications.

Maximum space between rail segments at stage lines shall be  $\frac{3}{16}$ ", sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.

Bar	No.	Size	Length	Shape
a5(E)	124	#4	21'-3"	<u> </u>
ag(E)	60	#4	7′-5″	
b3(E)	8	#4	14'-8"	
b4(E)	84	#4	29′-8″	
d(E)	68	#5	5′-7"	Δ
d2(E)	68	#5	5'-11"	Δ
e10(E)	32	#4	14'-8"	
e]](E)	4	#8	14'-8"	
	4 #8			
t(E)	168	#4	9′-10″	
	168 #4			
w(E)	160	#5	20'-11"	
Concrete S	Structures		Cu. Yd.	29.7
Concrete S	Superstructu	<i>ire</i>	Cu. Yd.	6.7
Bridge De	ck Grooving		Sq. Yd.	255
Protective	Coat		Sq. Yd.	300
Reinforcen	nent Bars.	Pound	9 680	
Ероху Соа	ted		1 00110	9,000
Preformed	Joint Strip	Seal	Foot	87
Concrete	Nearing Sur	face, 5"	Sq. Yd.	283
Precast B	ridge Appro	ach Slab	Sq. Ft.	2,440

### TWO APPROACHES BILL OF MATERIAL

(Sheet 4 of 4)

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Z <u>PLAN</u>



**ELEVATION** "N.T.R." denotes plates to which notch toughness requirements are applicable.



FABRICATED TOP OF WEB ELEVATION TABLE											
Location	Girder No. 1	Girder No. 2	Girder No. 3	Girder No. 4	Girder No. 5	Girder No.6					
€ Brg. N. Abut.	637.49	637.62	637.76	637.90	638.05	638.21					
@ Pier No. 1	637.80	637.92	638.04	638.07	638.01	637.97					
€ Splice No. 1	637.81	637.92	638.04	638.04	637.93	637.83					
€ Splice No. 2	637.55	637.67	637.79	637.80	637.70	637.59					
© Pier No. 2	637.40	637.52	637.64	637.65	637.55	637.45					
€ Brg. S. Abut.	636.57	636.57 636.70		636.85	636.76	636.66					

For fabrication use only.

<b>Farnsworth</b>		DESIGNED - TCR/JCZ	REVISED		STRUCTURAL STEEL	F.A.P.	SECTION	COUNTY	TOTAL	SHEE
		CHECKED - JML	REVISED	STATE OF ILLINOIS	CTRUCTURE NO 00C 0107	316	(116 BR)BR	BUREAU	91	50
2709 McGRAW DRIVE		DRAWN - DJM	REVISED	DEPARTMENT OF TRANSPORTATION	STRUCTURE NU. 006-0187			CONTRAC	T NO.	66A15
(309) 663-8435 / info@f-w.com	CHECKED - JML         REVISED         STATE OF ILLINOIS           OIS 61704         DRAWN - DJM         REVISED           DATE - 07/28/17         CHECKED - JML         REVISED	SHEET NO. B17 OF 32 SHEETS		ILLINOIS FED. AI	D PROJECT					

# NOTES:

- See Sheet B19 for Diaphragm & Splice Details.
   All diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual diaphragms at supports may be temporarily disconnected to install bearing anchor rods.
   Load carrying components designated "N.T.R." shall conform to the impact Testing Requirement, Zone 2.

	ĪN	TERIOR GIR	DER MOMENT	TARIE		
	11	0.4 Sp. 1	Pier No. 1	0.5 Sp. 2	Pier No. 2	0.6 Sp. 3
Is	(in4)	19,918	19,918	19,918	19,918	19,918
Ic(n)	(in4)	48,112	48,112	48,112	48,112	48,112
Ic(3n)	(in4)	34.434	34,434	34,434	34,434	34,434
Ic(cr)	(in4)		25,070		25,070	
Ss	(in³)	972	972	972	972	972
Sc(n)	(in <b>3</b> )	1,363	1,363	1,363	1,363	1,363
Sc(3n)	(in 3)	1,223	1,223	1,223	1,223	1,223
Sc(cr)	(in³)		1,079		1,079	
DC1	(k/')	1.008	1.008	1.008	1.008	1.008
Мосі	('k)	299	815	524	815	299
DC2	(k/')	0.150	0.150	0.150	0.150	0.150
M DC2	('k)	46	126	81	126	46
DW	(k/')	0.333	0.333	0.333	0.333	0.333
Mow	('k)	103	280	180	280	103
MŁ • IM	('k)	919	1,163	1,126	1,163	922
Mu (Strength I)	('k)	2,194	3.632	2.997	3.632	2,198
Ør Mn	('k)	6,556	4,498	6,556	4,498	6,556
fs DC1	(ksi)	3.7	10.1	6.5	10.1	3.7
fs DC2	(ksi)	0.5	1.4	0.8	1.4	0.5
fs DW	(ksi)	1.0	3.1	1.8	3.1	1.0
fs (4+IM)	(ksi)	8.1	12.9	9.9	12.9	8.1
fs (Service II)	(ksi)	15.7	31.4	21.9	31.4	15.7
0.95R <sub>h</sub> F <sub>yf</sub>	(ksi)	47.5	47.5	47.5	47.5	47.5
fs (Total)(Strength I)	(ksi)	20.9	41.6	29.1	41.6	20.9
Ø <sub>f</sub> F <sub>n</sub>	(ksi)					
Vr	(k)	50.1	63.3	60.0	65.7	51.1

- Is. Ss: Non-composite moment of inertia and section modulus of the steel section used for computing fs (Total-Strength I, and Service II) due to non-composite dead loads (in.<sup>4</sup> and in.<sup>3</sup>).
  Ic(n), Sc(n): Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing fs (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in.<sup>4</sup> and in.<sup>3</sup>).
  Ic(3n), Sc(3n): Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing fs (Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in.<sup>4</sup> and in.<sup>3</sup>).
  Ic(cr), Sc(cr): Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing fs (Total-Strength I and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in.<sup>4</sup> and in.<sup>3</sup>).
  Ic(cr), Sc(cr): Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing fs (Total-Strength I and Service II) in cracked sections, due to both short-term composite leve loads and long-term composed) dead loads (in.<sup>4</sup> and in.<sup>3</sup>).
  DCI: Un-factored non-composite dead load (kips/ft.).
  Mcc: Un-factored moment due to non-composite dead load (kip-ft.).
  DC2: Un-factored moment due to non-composite dead load (kip-ft.).
  DC3: Un-factored long-term composite (superimposed) excluding future wearing surface) dead load (kips/ft.).

  - (kips/ft.). Mpc2: Un-factored moment due to long-term composite (superimposed excluding future wearing surface)
- MDC2: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
   DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
   MDW: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
   MU: Un-factored ive load moment plus dynamic load allowance (impact) (kip-ft.).
   ML: Un: Un-factored love load moment plus dynamic load allowance (impact) (kip-ft.).
   ML: Un-factored design moment (kip-ft.).
   I.25 (Moci + Moce) + 1.5 Mow + 1.75 ML + 100
   \$\Psi r M\_n: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A5.1.1 or A5.1.2 (kip-ft).
   fs DCI: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
   MDC1 / Sne
  - Mpc/ / Snc fs DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead
  - fs DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
     Mpc2' S<sub>c</sub>(3n) or Mpc2 / S<sub>c</sub>(cr) as applicable.
     fs DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
     Mpw / S<sub>c</sub>(3n) or Mpw / S<sub>c</sub>(cr) as applicable.
     fs (½+IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).

- load plus impact loads as calculated below (ksi). M<sub>4</sub> · w / S<sub>c</sub>(n) or M<sub>4</sub> · w / S<sub>c</sub>(cr) as applicable. f<sub>s</sub> (Service II): Sum of stresses as computed below (ksi). f<sub>s</sub> foct + f<sub>s</sub> oce + f<sub>s</sub> w + 1.3 f<sub>s</sub> (t<sub>e</sub> · w) 0.95R<sub>h</sub>Fy f: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi). f<sub>s</sub> (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi). 1.25 (f<sub>s</sub>cct + f<sub>s</sub> pcc<sub>2</sub>) + 1.5 f<sub>s</sub>(w + 1.75 f<sub>s</sub>(t<sub>e</sub> · w) ψ<sub>r</sub>F<sub>n</sub>: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi). V<sub>r</sub>: Maximum factored shear range in span computed according to Article 6.10.10.



<u>CAMBER DIAGRAM</u> \* Final Top of Web Elevations at Abutment \*\* Final Top of Web Elevations at Pier

Farnsworth -		DESIGNED - TCR/JCZ	REVISED		STRUCTURAL STEEL		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
GROUP		CHECKED - JML	REVISED	STATE OF ILLINOIS		316	(116 BR)BR	BUREAU	91	51
2709 McGRAW DRIVE BLOOMINGTON ILLINOIS 61704		DRAWN - DJM	REVISED	DEPARTMENT OF TRANSPORTATION	SIRUCIURE NU. UUD-U18/			CONTRAC	T NO. 6	6A19
(309) 663-8435 / info@f-w.com	DATE - 07/28/17	CHECKED - JML	REVISED		SHEET NO. B18 OF 32 SHEETS	ILLINOIS FED. AID F		AID PROJECT		

INTERIOR GIRDER REACTION TABLE								
		N. Abut.	Pier No. 1	Pier No. 2	S. Abut.			
RDCI	(k)	24.5	99.0	99.0	24.5			
R DC2	(k)	3.8	15.1	15.1	3.8			
Row	(k)	8.4	33.5	33.5	8.4			
R4 · IM	(k)	101.7	162.4	162.6	100.8			
R Total	(k)	138.4	310.1	310.3	137.5			



#### DIAPHRAGM D CONNECTION "A"

(55 - Reauired)

Notes: Two hardened washers required for each set of oversized holes.

- \*Alternate channels, CI5x50, are permitted to facilitate material acquisition. Calculated weight of structural steel is based on C15x40 section. The C15x50, if utilized, shall be provided at no extra cost to the department.
- \*\*The '2" bent I on Girder 4 near the Stage Construction Line shall have '3'<sub>16</sub> " x 1'<sub>8</sub>" vertical slotted holes. The bolts in the slotted holes shall be finger tight until the Stage II deck pour is completed. The slotted holes in the bent I shall be positioned to allow the bolts to move from one end of the slotted hole to the opposite end under deck load. The holes shall be positioned allowing maximum bolt displacement without laterally stressing the borne. We clotted holes to get a conclusion. beams. No slotted holes are allowed on the beams.



DIAPHRAGM DI (10 - Required)

Notes: Two hardened washers required for each set of oversized holes.

Alternate channels, C15x50, are permitted to facilitate material acquisition, Calculated weight of structural steel is based on C15x40 section. The C15x50, if utilized, shall be provided at no extra cost to the department.







### INITIAL BOLT ERECTION POSITION FOR DIAPHRAGM D CONNECTION "B"

Note: The bolts in the slotted holes shall be finger tight until the Stage II deck pour is completed. The slotted holes in the bent R and plate shall be positioned as shown to allow the bolts to move to the final erection position under deck load. The holes have been positioned to allow maximum bolt displacement without laterally stressing the beam.









### SECTION AT ABUTMENT/PIER

DESIGNED - TCR/JCZ REVISED Farnsworth STATE OF ILLINOIS CHECKED - JML REVISED DRAWN - DJM REVISED **DEPARTMENT OF TRANSPORTATION** BLOOMINGTON, ILLINOIS 61704 (309) 663-8435 / info@f-w.com SHEET NO. B19 OF 32 SHEETS DATE - 07/28/17 CHECKED - JML REVISED

ILLINOIS FED. AID PROJECT



Farnsworth		DESIGNED - TCR/JCZ	REVISED		FIXED BEARING DETAILS		SECTION	COUNTY	TOTAL SHEET	L SHEET
GROUP		CHECKED - JML	REVISED	STATE OF ILLINOIS	STDUCTUDE NO OOG 0107	316	(116 BR)BR	BUREAU	91	53
2709 McGRAW DRIVE		DRAWN - DJM	REVISED	DEPARTMENT OF TRANSPORTATION	SINUCIUNE NU. 000-0107			CONTRAC	CT NO.	66A19
(309) 663-8435 / info@f-w.com	DATE - 07/28/17	CHECKED - JML	REVISED		SHEET NO. B20 OF 32 SHEETS		ILLINOIS FED. AID PROJECT			
										04.000

Beam No.	Shim Thickness
Pier No. 1 - 4	3 <sub>8</sub> "
Pier No. 1 - 5	2"
Pier No. 2 - 4	8"
South Abut 4	4"

Item	Unit	Total
Anchor Bolts, 1"	Each	48



![](_page_53_Figure_1.jpeg)

![](_page_53_Figure_2.jpeg)

![](_page_53_Figure_3.jpeg)

![](_page_53_Figure_4.jpeg)

![](_page_53_Figure_5.jpeg)

<u>u(E) BAR</u>

![](_page_53_Figure_7.jpeg)

<u>uz(E) E</u>	<u>3AR</u>
----------------	------------

NORT	<u> H A</u>	ABUT	MEN7	-
BILL	OF	MA 7	<b>ERIA</b>	L

Bar	No.	Size	Length	Shape
h(E)	30	#5	11'-2"	——
hj(E)	8	#5	17'-0"	
h2(E)	4	#5	9′-7"	
p(E)	23	#7	21'-7"	
p1(E)	3	#7	6′-7"	
s2(E)	32	#5	12'-11"	
s3(E)	4	#5	13'-1"	
54(E)	16	#5	4'-0"	
sp(E)	8	#4	2'-0"	₹
u(E)	8	#6	10'-5"	
u](E)	2	#5	8'-8"	
u2(E)	22	#5	10'-0"	
v(E)	108	#8	5'- <i>11</i> "	
v1(E)	4	#5	7'-8"	
<u>v2(E)</u>	8	#5	10'-11"	
v3(E)	4	#5	8'-6"	
V4(E)	8	#5	12'-8"	
	Item		Unit	Quantity
Structure	Excavatio	ก	Cu. Yd.	80
Concrete	Structure	5	Cu. Ya.	25.4
Reinforce	ement Bar	5,	Pound	4,740
Epoxy Co			<b>F</b> 4	0.05
Test P	Hetel Ch		Foor	225
Concerne	Merai She	ns Oraio	Each	1
Crapular	Deckfill f		- SY. 10.	42
Structure		ות	Cu. Yd.	71
Biog Upd	Structures Biog. Updat drains. for			
Structure	Pipe Underdrains for			80
Euroichio	a Notal CI	hall Pilar		
16"10 374	y merur 31 5"		Foot	225
10 x0.575	, 			1
▼ Length	is height	of spiral.		

![](_page_53_Figure_11.jpeg)

<u>PIL</u>	Ε	DA	<u>TA:</u>

Pile Type and Size	Metal Shell - 16 in. dia. x 0.375 in. walls					
Nominal Required Bearing	659 kips					
Factored Resistance Available	362 kips					
Estimated Pile Length	45 Feet					
Number of Production Piles	5					
Number of Test Piles	1					

Note: Drive Test Pile under Stage I.

#### NOTES:

1.) 2.) 3.)

- Pour steps monolithically with cap. Space reinforcement in cap to miss anchor bolts. Order h1(E), v2(E) and v4(E) bars full length. Cut according to Bar Cutting Diagram. Use remainder of bars in opposite face of wingwall. Bend or cut h(E) bars to miss piles. E.E. denotes Each End, F.F. denotes Front Face, B.F. denotes Back Face and E.F. denotes Each Face. See Sheet B26 for Bar Splicer Details. For details of piles, see Sheet B25.
- 5.)
- 6.) 7.)

MENT	F.A.P. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
006_0187	316	(116 BR)BR		BUREAU	91	54
000-0107				CONTRACT	NO. 6	6A19
2 SHEETS		ILLINOIS	FED. AI	D PROJECT		

![](_page_54_Figure_0.jpeg)

<u>SOU1</u>	<u> </u>	ABUT	MENT
BILL	0F	MAT	ERIA

	Bar	No.	Size	Length	Shape
	h(E)	28	#5	11'-2"	
	hţ(E)	8	#5	17'-0"	
	h2(E)	4	#5	9′-7"	
	<i>р(Е)</i>	20	#7	21'-7"	
	s2(E)	32	#5	12'-11"	
	s3(E)	4	#5	13'-1"	
	54(E)	16	#5	4'-0"	
**	sp(E)	8	#4	2'-0"	₹.
	u(E)	8	#6	10'-5"	
	u1(E)	2	#5	8'-8"	
	v(E)	108	#8	5'-11"	
	v1(E)	8	#5	7'-8"	
	v2(E)	16	#5	10′-11″	
		Item		Unit	Quantity
	Structure	Excavatio	n	Cu. Yd.	76
	Concrete	Structure	\$	Cu. Yd.	24.2
	Reinforce	ement Bars	5.	Pound	4,300
	E poxy Co	area		<b>Feed</b>	0.40
	Driving P	Hetel Che		Fool	240
	Coordinate	Merui Sile	ns Drain	Eucii	1
	Geocompo	Deckfill f		- Sy. Tu.	41
	Structure	S	,,	Cu. Yd.	67
	Pipe Und	- erdrains f	or		
	Structure	s 4"	-	Foot	78
	Furnishin	g Metal St	nell Piles	Foot	240
	16"x0.375	5″			

\*\* Length is height of spiral.

![](_page_54_Figure_4.jpeg)

# PILE DATA:

Pile Type and Size	Metal Shell - 16 in. dia. x 0.375 in. walls
Nominal Required Bearing	699 kips
Factored Resistance Available	384 kips
Estimated Pile Length	48 Feet
Number of Production Piles	5
Number of Test Piles	1

Note: Drive Test Pile under Stage I.

# NOTES:

- 2.) 3.)
- 4.) 5.)
- 6.) 7.) 8.)
- Pour steps monolithically with cap. Space reinforcement in cap to miss anchor bolts. Order h1(E) and v2(E) bars full length. Cut according to Bar Cutting Diagram. Use remainder of bars in opposite face of wingwall. Bend or cut h(E) bars to miss piles. E.E. denotes Each End, F.F. denotes Front Face, B.F. denotes Back Face and E.F. denotes Each Face. See Sheet B26 for Bar Splicer Details. For details of piles, see Sheet B25. \*Pile location coincide with the limits of the existing footing. These piles should be driven through a 2' diameter precored hole in the existing footing extending to elevation 613.50 according to Article 512.09(c). Adjacent piles may need to be cored also, due to their Adjacent piles may need to be cored also, due to their close proximity to the existing footing. Cost included in Driving Piles.

MENT	F.A.P. RTE	SECT	LION			COUNTY	TO SHE	TAL ETS	SHEET NO.
006_0187	316	(116 E	BR)BR		Т	BUREAU	9	1	55
000-0187					Т	CONTRAC	T NC	). 6	6A19
2 SHEETS			ILL INOIS	FED.	AID	PROJECT			

![](_page_55_Figure_0.jpeg)

E	BILL (	OF M/	ATERIA	L
Bar	No.	Size	Length	Shape
h3(E)	34	#5	23'-11"	
h4(E)	34	#5	25′-5"	
p2(E)	2	#7	24'-4"	
<b>рз(Е)</b>	6	#7	23'-1"	
p4(E)	2	#7	25'-10"	
<i>р</i> 5(Е)	6	#7	24'-7"	
s5(E)	45	#4	11'-5"	
s6(E)	476	#4	3′-3"	
u3(E)	6	#6	9′-1″	
U4(E)	34	#5	9'-2"	Ē
v5(E)	82	#5	17'-10"	
	Item		Unit	Quantity
Cofferda	n Excav	ation	Cu. Yd.	57
Cofferdar (Location	т (Туре - 1)	2)	Each	1
Concrete	Structur	res	Cu. Yd.	80.5
Reinforcement Bars, Epoxy Coated			Pound	5,400
Driving Piles			Foot	558
Test Pile	Metal S	hells	Each	1
Furnishin Piles 16">	g Metal «0.375"	Shell	Foot	558

PIER NO. 1

![](_page_55_Figure_2.jpeg)

(116 BR)BR

ILLINOIS FED. AID PROJECT

316

24-8962

BUREAU 91 56

CONTRACT NO. 66A19

![](_page_56_Figure_0.jpeg)

Bar	No.	Size	Length	Shape
h3(E)	32	#5	23'-11"	
ħ <b>ą</b> (Ε)	32	#5	25'-5"	
p2(E)	2	#7	24'-4"	
D3(E)	6	#7	23'-1"	
p4(E)	2	#7	25'-10"	
р <u>5</u> (Е)	6	#7	24'-7"	
55(F)	45	#4	11'-5"	
s6(E)	448	#4	3'- 3"	
<del></del>	6	#6	Q'_ 1"	
<u>u4(E)</u>	32	#5	9'-2"	
v6(E)	82	#5	17′-5"	
	Item		Unit	Quantity
Cofferdan	n Excav	ation	Cu. Yd.	165
Cofferdan Location	n (Type - 1)	2)	Each	1
Concrete	Structu	res	Cu. Yd.	78.8
Reinforcement Bars, Fpoxy Coated			Pound	5,200
Driving Piles			Foot	420
Furnishing Metal Shell			Foot	420

![](_page_56_Figure_2.jpeg)

24-8962

![](_page_57_Picture_0.jpeg)

## METAL SHELL PILE TABLE

Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd.3 /ft.)
PP12	0.250"	31.37	0.0267
PP14	0.250"	36.71	0.0368
PP14	0.312"	45.61	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470

![](_page_57_Figure_3.jpeg)

<u>DETAIL A</u>

### WELDED COMMERCIAL SPLICE

Notes: The  $l_8$ " x  $l_2$ " min. fill bar may be constructed of 2 bars with a  ${}^{l}_{8}$ " max. gap between them. Pile segments shall be driven to solid contact with splicer before welding.

![](_page_57_Figure_6.jpeg)

![](_page_57_Figure_7.jpeg)

![](_page_57_Figure_8.jpeg)

END PLATE ATTACHMENT

![](_page_57_Figure_10.jpeg)

### PILE SHOE ATTACHMENT

(When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 90-60 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld).

![](_page_57_Figure_13.jpeg)

### COMPLETE PENETRATION WELD SPLICE

\* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.

![](_page_57_Figure_16.jpeg)

# ELEVATION

# REINFORCEMENT AT ABUTMENTS

Note:

The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.

F-MS 2-17-2017

	2 17 2011									
Farnsworth		DESIGNED - TCR/JCZ	REVISED		METAL SHELL PILE DETAILS	F.A.P.	SECTION	COUNTY	TOTAL	SHEET
		CHECKED - JML	REVISED	STATE OF ILLINOIS		316	(116 BR)BR	BUREAU	91	58
2709 McGRAW DRIVE		DRAWN - DJM	REVISED	DEPARTMENT OF TRANSPORTATION	STRUCTURE NU. 000-0187			CONTRAC	T NO. E	ô6A19
(309) 663-8435 / info@f-w.com	DATE - 07/28/17	CHECKED - JML	REVISED		SHEET NO. B25 OF 32 SHEETS		ILLINOIS FED. A	ID PROJECT		
						-		-		

# INDIVIDUAL PILE CONCRETE ENCASEMENT AT PIERS

![](_page_58_Figure_0.jpeg)

### STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length +  $l_2^{\prime}$  + thread length

Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies	Minimum Ian lenath
Top of Slab	#5	507	3'-2"
Bottom of Slab	#5	338	3′-9"
North Diaphragm	#6	7	4'-4"
South Diaphragm	#6	7	4'-4"
North Approach	#4	31	2'-7"
North Approach Footing	#5	40	3'-2"
South Approach	#4	31	2'-7"
South Approach Footing	#5	40	3'-2"
North Abutment	#7	10	5′-0"
South Abutment	#7	10	5′-0"
Pier No. 1	#7	8	5′-0″
Pier No. 1	#5	34	3′-7"
Pier No. 2	#7	8	5'-0"
Pier No. 2	#5	32	3'-7"

![](_page_58_Figure_5.jpeg)

#### INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E) : Indicates epoxy coating.

![](_page_58_Figure_8.jpeg)

alternatives.

BSD-1	2 - 17 - 2017
030 I	2 11 2011

Farnsworth		DESIGNED - TCR/JCZ	REVISED		BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
GROUP		CHECKED - JML	REVISED	STATE OF ILLINOIS	STRUCTURE NO OOC 0107	316	(116 BR)BR	BUREAU	91	59
2709 McGRAW DRIVE		DRAWN - DJM	REVISED	DEPARTMENT OF TRANSPORTATION	SINUCIURE NU. 000-018/			CONTRAC	T NO.	6A19
(309) 663-8435 / info@f-w.com	DATE - 07/28/17	CHECKED - JML	REVISED		SHEET NO. B26 OF 32 SHEETS	ILLINOIS FED. A		J. AID PROJECT		

![](_page_58_Figure_12.jpeg)

# STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

## NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi

yield strength. All reinforcement shall be lapped and tied to the splicer bars. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications. See approved list of bar splicer assemblies and mechanical splicers for

![](_page_59_Figure_0.jpeg)

#### SFP 34-42 2-17-2017

<b>Farnsworth</b>		DESIGNED - TCR/JCZ	REVISED		CONCRETE PARAPET SLIPFORMING OPTION	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
GROUP		CHECKED - JML	REVISED	STATE OF ILLINOIS		316	(116 BR)BR	BUREAU	91	60
2709 McGRAW DRIVE BLOOMINGTON JULINOIS 61704		DRAWN - DJM	REVISED	DEPARTMENT OF TRANSPORTATION	STRUCTURE NU. 000-0187	_		CONTRAC	T NO. F	6A19
(309) 663-8435 / info@f-w.com	DATE - 07/28/17	CHECKED - JML	REVISED		SHEET NO. B27 OF 32 SHEETS		ILLINOIS FED. A	ID PROJECT		

# <u>GENERAL NOTES</u>

All dimensions shall remain the same as shown on superstructure details, except dimensions A and B which are to be revised as shown to provide additional clearance. Additional concrete needed to revise dimension A and B = 0.0165 cu. yds./ft. for 34" parapet or = 0.0223 cu. yds./ft. for 42" parapet. Place aluminum sheet in curb portion at and near piers. Full thickness saw cut at all joint locations in lieu of cork joint filler.

Steel superstructure shown. Other superstructure types similar.

![](_page_59_Figure_6.jpeg)

![](_page_59_Figure_7.jpeg)

![](_page_59_Figure_8.jpeg)

![](_page_59_Figure_9.jpeg)

![](_page_59_Figure_10.jpeg)

(For 42" parapet when conduit is present)

![](_page_60_Figure_0.jpeg)

ROUTE FAP 316 (IL 26) DES	CRIPTION	IL 26	over Bureau Creek, North of Princeton LOGG	Date ED. BNat	10/19/72 sko & H. W	ROUTE FAP 316 (IL 26)	DESCRI	PTION _	IL 26 0	Date10/19/72_ over Bureau Creek, North of Princeton LOGGED BMatsko & H. William
ECTION (116 BR)BR		ON SW	1/4 of SW 1/4, SEC. 28, TWP. 17N, RNG. 9E, 4 <sup>th</sup> F tude , Longitude	M,		SECTION (116 BR)BR			N SW Lati	1/4 of SW 1/4, SEC. 28, TWP. 17N, RNG. 9E, 4 <sup>th</sup> PM, tude , Longitude
Duread         Duread         Duread           TRUCT. NO.         006-0079 (Evist.)         []           Station         1536+94.55         []           IORING NO.         B-2         []           Station         1537+55         []           Offset         22.0 ft Rt.         []           Ground Surface Elev.         628.00         ft	METHOD D B E L P O T W H S (ft) (/6")	U M C O S I Qu T (tsf) (%	RAWMER I TPE           Surface Water Elev.         620.00         ft         D           Stream Bed Elev.         ft         P         P           Groundwater Elev.:         T         T         First Encounder         T           Upon Completion         Wash         ft         H         H           AfterHrs.         ft         (ft)         (ft)	B L O W S (/6")	U M C O S I S Qu T (tsf) (%)	Dured         Dured         Dured           006-0079 (Exist)         STRUCT. NO.         006-0136 (Prop.)           Station         1536+94.55           BORING NO.         B-2           Station         1537+55           Offsec 22.0 ft Rt.         Ground Surface Elev.	D P T ft (ft)	B L O W S (/6") (1	U M C O S I S S Qu T tsf) (%)	Surface Water Elev.     620.00     ft       Stream Bed Elev.     ft       Groundwater Elev.:     ft       Upon Completion     Wash       After Hrs.     ft
Soft Brown Sandy Loam		P	Same as above	28	4.2 12 B	Same as above	_	61 6	B	
- iame as above - 	3	0.5 9 P	Hard Tan Sandy Clay Till (Some Small Silt Layers Throughout)	29	4.3 13 B	Same as above		67 6	5.3 11 B	-
Medium Gray Sand & Gravel	38	10	Same as above	32	4.5 13 B	Hard Tan Sandy Clay Till	-45	76 6	5.8 12 B	
ledium Brown Sand & Gravel Clean & Wet)	13		Hard Tan Sandy Clay Till	34	4.6 13 B	Hard Tan Sandy Clay Till (With Large Pebbles)		00/4"		
618.00 /ery Stiff Tan Sandy Clay Till	-10 18	3.5 14 B	-30 Very Stiff Tan Sandy Clay Till	34	3.9 13 B	Same as above	-50	45 6	5.2 11 B	
ame as above	22	3.8 11 B	Same as above	33	3.4 13 B	Hard Tan Sandy Clay Till		39 5	5.1 B	
- łard Tan Sandy Clay Till	-15 25	4.0 12 B		50	5.0 11 B	Same as above	-55	31 4	H.2 9 B	
ame as above	27	4.3 12 S	Same as above	55	5.2 11 B	Very Stiff Tan Sandy Clay Till (Wet) 5 End of Boring		26 3	3.8 8 B	
ne Unconfined Compressive Strength (U	(CS) Failure	• Mode is lues in ea	ndicated by (B-Bulge, S-Shear, P-Penetrometer) ih sampling zone (AASHTO T206) BBS, form	137 (Re	x 8-99)	The Unconfined Compressive Strer The SPT (N value) is the sum of the	gth (UCS) i	railure le ow valu	Mode is i	Indicated by (B-Bulge, S-Shear, P-Penetrometer) th sampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)

CHECKED - JML     REVISED     ST       2709 McGRAW DRIVE     DRAWN - DJM     REVISED       BLOOMINGTON ILLINOIS 61704 (309) 6634435 (ImGgRew com     DATE - 07/28/17     CHECKED - JML     REVISED	STATE OF ILLINOIS MENT OF TRANSPORTATION SHEET NO. 828 OF 32	LUGS 006-0187 32 SHEETS
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24-8962

( ) Illinois Departr	ner	nt		so			Page	<u>1</u>	of
Division of Highways	011			00			Date	_10/*	17/7
ROUTE FAP 316 (IL 26) DE	SCRI	PTION	(L	. 26 0	ver Bureau Creek, North of Princeton	OGG	ed). Bay	atsko 8	н.
SECTION (116 BR)BR	_ L	OCAT		SW 1	/4 of SW 1/4, SEC. 28, TWP. 17N, RNG. 9E,	4 <sup>th</sup> <b>F</b>	M,		
COUNTY Bureau DRILLING	MET	HOD		Latitu	Ide , Longitude HAMMER TYPE				
STRUCT. NO.         006-0079 (Exist.)           Station         1536+94.55	D E P T	B L O W	U C S	M O I S	Surface Water Elevft Stream Bed Elevft	D E P T	B L O W	U C S	M 0 1 S
Station 1536+91	н	S	Qu	т	First Encounter ft	н	S	Qu	т
Ground Surface Elev. 626.50 ft	(ft)	(/6")	(tsf)	(%)	Upon Completion       620.5       ft ⊥         After Hrs.       ft	(ft)	(/6")	(tsf)	(%
Very Loose Brown Sand (Clean & Moist)	_	3		5	Same as above	_	20	3.6 B	13
	_				-				
624.00	_	4	1.0	10		_	27	3.9	13
Medium Brown Sandy Loam (Dirty with Gravel)	_		В		Very Stiff Tan Sandy Clay Till	_		В	
	-5	3	0.0	14		-25	28	12	11
Same as above (Gray in color) $\sidesimes$	_	5	P.0.0	14	Hard Tan Sandy Clay Till	_	20	#.3 B	
619.00									
Stiff Tan Sandy Clay Till	_	5	1.2 P	13	Same as above	_	28	4.4 B	13
	-								
	-10	16	2.5	14	-	-30	34	4.7	1:
Very Stiff Tan Sandy Clay Till	_		В		Same as above	_		В	
	_	18	27	12		_	37	10	1
Same as above	_	10	B		Same as above	_		B	1
	-15					-35			
Same as above	-	19	2.8 B	13	Same as above	_	36	5.0 B	13
						_			
		10				_	05		
Same as above		19	3.2 B	13	Same as above		35	4.9 B	12
	_				587.50	_			
	-20				End of Boring	-40			

![](_page_61_Figure_1.jpeg)

Farnsworth		DESIGNED - TCR/JCZ	REVISED		SOU ROBING LOGS	F.A.P.	SECTION	COUNTY	TOTAL	SHEET
		CHECKED - JML	REVISED	STATE OF ILLINOIS		316	(116 BR)BR	BUREAU	91	62
2709 McGRAW DRIVE		DRAWN - DJM	REVISED	DEPARTMENT OF TRANSPORTATION	STRUCTURE NU. 006-0187			CONTRAC	T NO. (	66A19
(309) 663-8435 / info@f-w.com	DATE - 07/28/17	CHECKED - JML	REVISED		SHEET NO. B29 OF 32 SHEETS	-	ILLINOIS FEE	AID PROJECT		

BORING LO	G		Page Date	_1 12	of _
eau Creek, North of Princeton	<u> </u>	DGGI	ED BY	J. M	atsko
N 1/4, SEC. 28, TWP. 17N, R ongitude	NG. 9E,	4" P	Υ <b>Μ</b> ,		
arce Water Elev618.50	_ ft _ ft	D E P	B L O	U C S	M O
ndwater Elev.: t Encounter	_ft ft⊽	Т Н	W S	Qu	S T
er Hrs	ft	(ft)	(/6")	(tsf)	(%)
Tan Sandy Clay Till		_	30	4.5 B	12
		_			
as above		_	31	4.7 B	12
		-25			
as above		_	31	4.7 B	12
		_			
as above		_	32	4.8 B	12
		-30			
as above		_	37	5.0 B	11
		_			
as above		_	38	5.1 B	12
	584 50	-35			
Boring	504.00				
		_			
		-			
		_			
		40			
		-40			

Illinois Departn of Transportati	on	nt		SC	DIL BORING LOG		Page	<u>1</u> 10/2	of 25/7
ROUTE FAP 316 (IL 26) DE	SCRI	PTION		. 26 ov	ver Bureau Creek, North of Princeton	.ogg	ED BY	J. M	atsl
SECTION (116 BR)BR	ı	OCAT	ION	SW 1/	4 of SW 1/4, SEC. 28, TWP. 17N, RNG. 9E	, 4 <sup>th</sup> F	PM,		
COUNTY Bureau DRILLING	ME	тнор		Latitu	Ide , Longitude HAMMER TYPE				
006-0079 (Exist.)           STRUCT. NO.         006-0136 (Prop.)           Station         1536+94.55	D E P T	B L O W	U C S	M O I S	Surface Water Elev. 622.00 ft Stream Bed Elev. ft	D E P T	B L O W	U C S	
Station         1535+71           Offset         20.0 ft Lt.           Ground Surface Elev.         635.00	H (ft)	S (/6")	Qu (tsf)	T (%)	First Encounter ft Upon Completion Wash ft After Hrs. ft	H (ft)	S (/6")	Qu (tsf)	۲ (%)
Medium Brown Condul com	_	5	0.5	10	a a	_	23	2.8	1
(Moist with Trace of Gravel)	-		P		Very Stiff Tan Sandy Clay Till	_		B	
	_					_			
Same as above	_	7	0.7 P	12	Same as above		29	3.0 B	1
	-5					-25			
Stiff Brown Sandy Loam	_	15	1.1 P	13	Same as above	_	30	3.2 B	1
	-					_			
Same as above	_	6	1.0 P	17	Same as above	_	29	3.1 B	1
	-10				-	-30			
624.50	_	10		5	_	_	30	3.4	1
Medium Light Brown Sand (Clean & Uniform)	_				Same as above	_		В	
	_	7				_	21	2.5	
Loose Brown Sand & Gravel (Wet)	_	<i>'</i>			Same as above	_	31	3.5 B	
	-15					-35			
Medium Brown Sand & Gravel (Wet & Dirty)	_	23			Hard Tan Sandy Clay Till (With Sand Lenses Throughout)	_	42	5.1 B	10
	_				-	_			
Same as above	-	17			Same as above	_	46	5.3 B	1.
615.50	-20				1	-40			

![](_page_62_Figure_1.jpeg)

<b>Farnsworth</b>		DESIGNED - TCR/JCZ	REVISED		SOIL BORING LOGS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
GROUP		CHECKED - JML	REVISED	STATE OF ILLINOIS	CTDUCTUDE NO OOC 0107	316	(116 BR)BR	BUREAU	91	63
2709 McGRAW DRIVE		DRAWN - DJM	REVISED	DEPARTMENT OF TRANSPORTATION	SINULIUNE NU. UUO-UIA/			CONTRACT	T NO. F	6A19
(309) 663-8435 / info@f-w.com	DATE - 07/28/17	CHECKED - JML	REVISED		SHEET NO. B30 OF 32 SHEETS		ILLINOIS FED. A	ID PROJECT		

Page <u>2</u> of <u>2</u> L BORING LOG Date <u>10/25/72</u>	
Bureau Creek, North of Princeton LOGGED BY _J. Matsko	
of SW 1/4, <b>SEC.</b> 28, <b>TWP.</b> 17N, <b>RNG.</b> 9E, 4 <sup>th</sup> <b>PM</b> ,	
HAMMER TYPE	
Surface Water Elev ft ft ft Stream Bed Elev ft	
First Encounter         ft           Upon Completion         Wash           ft         ft           After         ft	
ated by (B-Bulge, S-Shear, P-Penetrometer) ampling zone (AASHTO T206) BBS, form 137 (Rev. 8-99)	

( ) Illinois Departn	ner	nt		sc		OG		Page	1	of
Division of Highways	011			00		.00		Date	9/2	29/0
ROUTE FAP 316 (IL 26) DE:	SCRI	PTION	<b>і</b> _Ц	_ 26 ov	ver Bureau Creek, North of Prin	ceton L	oggi	ED BY	L. N	/yer
SECTION (116 BR)BR	L		TION	SW 1/	4, SEC. 28, TWP. 17N, RNG. 9	E, 4 <sup>th</sup> <b>PM</b> ,				
COUNTY Bureau DRILLING	- ME.	THOD		Latitu Ho	Ide 41.422535, Longitude -89 llow Stem Auger HAM	.469217		OME A	utoma	atic
006 0136 (Eviet )	D	в		м		0.01 8	D	в	u	
Station1580+50	E	L	C	Ö	Surface Water Elev. 01 Stream Bed Elev. 61	8.91 ft 6.85 ft	E	L	c	c
BORING NO. 01 (S. Abut.)	T	w	s	S	Groundwater Elev.:		P T	w	S	5
Station 1581+85	н	S	Qu	т	First Encounter6	<u>17.5</u> ft▼	н	S	Qu	T
Offset 14.0 ft Lt. Ground Surface Elev. 635.49 ft	(ft)	(/6")	(tsf)	(%)	After Hrs.	<u>614.5</u> ft⊥⊻ ft	(ft)	(/6")	(tsf)	(%
Augered Bituminous Shoulder					Hard Reddish Brown Silty Cla	ау	_	7	12	1
	$\neg$				Loam Till (conunded)	4	7	13	4.3 S	ръ
622.00										
Medium Black/Brown Sandy Loam	: =	5					_	4		
Fill with Gravel & Sand Fill	_	3		10	1		-	6	4.0	1
	-	Ū		-	-			Ŭ		-
	-5	2					-25	6		
		4		11	-			9	4.0	1
		4		<u> </u>	-		_	10	S	-
627.99										
Loose Brown Loamy Sand with Gravel pieces	_	3		16	-			8 10	4.0	1
		2						12	S	
627.99 ose Brown Loamy Sand with avel pieces	-10			[			-30			[
		2						5		L
	-	1		9			_	8 11	4.0 S	1
		2					_	6		
		2		15	1		_	9	4.7	1
Medium Fine to Coarse Gravel in	$\neg$	5		-	-			10	3	-
Sand/Silt Matrix (Potential Cobble/Boulders) (Free water @	-15	10					-35	5		
18')	-	13		3			-	9	4.7	1
· · · · · · · · · · · · · · · · · · ·		12		<u> </u>	-		_	13	S	-
							_			
2	<u>r</u>	9		7	-			6	4.5	1
		5		, ·			_	12	S	
615.99	20						40			
	-20	<u> </u>		L			-40			L

![](_page_63_Figure_1.jpeg)

<b>Farnsworth</b>		DESIGNED - TCR/JCZ	REVISED		SOU BOBING LOGS	F.A.P. RTF	SECTION	COUNTY	TOTAL	SHEET NO.
		CHECKED - JML	REVISED	STATE OF ILLINOIS		316	(116 BR)BR	BUREAU	91	64
2709 McGRAW DRIVE		DRAWN - DJM	REVISED	DEPARTMENT OF TRANSPORTATION	STRUCTURE NU. 006-0187			CONTRAC	T NO. E	6A19
(309) 663-8435 / info@f-w.com	DATE - 07/28/17	CHECKED - JML	REVISED		SHEET NO. B31 OF 32 SHEETS		ILLINOIS FED. A	ID PROJECT		

(R) Illinois Depar of Transporta	tme	nt		sc	DIL BORING LOG		Page	<u>1</u>	of
Division of Highways IDOT							Date	10	/7/0
ROUTE FAP 316 (IL 26) I	DESCRI	PTION	I	. 26 0\	ver Bureau Creek, North of Princeton	.OGG	ED BY	N	Лує
SECTION (116 BR)BR	L	OCAT	10N _	SW 1/ Latitu	4, SEC. 28, TWP. 17N, RNG. 9E, 4 <sup>th</sup> PM, ide 41.423293, Longitude -89.469483				
COUNTY Bureau DRILLI	NG ME	THOD		Ho	Ilow Stem Auger HAMMER TYPE		CME A	utoma	atic
STRUCT. NO.         006-0136 (Exist.)           Station         1580+50           BORING NO.         02 (N. Abut.)           Station         1578+93	D E P T H	B L O W S	U C S Qu	M O I S T	Surface Water Elev. 618.91 ft Stream Bed Elev. 621.89 ft Groundwater Elev.: First Encounter 622.5 ft ▼	D E P T H	B L O W S	U C S Qu	
Offset 14.0 ft Rt. Ground Surface Elev. 636.45	ft (ft)	(/6")	(tsf)	(%)	Upon Completion 622.5 ft After Hrs. ft	(ft)	(/6")	(tsf)	6
Augered Bituminous Shoulder					Medium Brown Fine to Coarse	_	9		t.
					(Potential Cobble/Boulders)	_	7		Ľ
633.	95				613.95				
Loose Brown Loamy Sand Fill with		5		12	Hard Reddish Brown Silty Clay		6	41	Ļ
Glaver Fieldes	_	3		12		_	9	s.	
	-5					-25			
	_	2		10		_	6	43	-
	_	3					11	S	Ľ
		2		17	-		6	4.3	+
	_	6					11	S	
	artment tation       SOIL BORING LOG       Date       1 07/09								
	-	2		9	-	Page       1       of       2         Date       10/7/09         ureau Creek, North of Princeton       LOGGED BY       L. Myers         2C. 28, TWP. 17N, RNG, 9E, 4 <sup>®</sup> PM.       1/1/423293, Longitude - 89/49433       2         Stem Auger       HAMMER TYPE       CME Automatic         frace Water Elev.       618.91       ft       P       B       U       M         ream Bed Elev.       622.59       ft       W       K       S         pon Completion       622.5       ft       W       K       S         tarr Hrs.       ft       (ft) (6 <sup>o</sup> ) (sb) (sb)       (sb)       S       1         undwater Elev.:       ft       H's       Qu       T       S         tart Hrs.       ft       (ft) (6 <sup>o</sup> ) (sb)       (sb)       S       1         undwater Elev.:       ft       9       S       1       1       1         tart Hrs.       ft       9       S       1			
	_	2							
623.	95	3				_	7		
with some Fine/Coarse Gravel	-	3		6		_	11	5.0	1
(1.100 Water (2.14)	V	3			-	_	14	s	$\vdash$
	-15	2				-35	7		
		3		14	4	_	11	5.2 S	
619.	45 —	-			1	_			$\vdash$
Medium Brown Fine to Coarse Gravel in Sand/Silt Matrix	_	8				-	8		
(Potential Cobble/Boulders)	_	9 6		13		_	11 16	5.2 S	
					596.95	5		-	F
L	-20				Medium Gray Fine/Coarse Sand	-40			1

![](_page_64_Figure_1.jpeg)

		DESIGNED - TCR/JCZ	REVISED			F.A.P.	SECTION	COUNTY	TOTAL	SHEET
		CHECKED - JML	REVISED	STATE OF ILLINOIS	STELEDENING LOGS STELICTURE NO ODE 0197	316	(116 BR)BR	BUREAU	91	65
2709 McGRAW DRIVE BLOOMINGTON, ILLINOIS 61704		DRAWN - DJM	REVISED	DEPARTMENT OF TRANSPORTATION	STRUCTORE NO. 000-0187			CONTRACT	T NO. F	6A19
(309) 663-8435 / info@f-w.com	DATE - 07/28/17	CHECKED - JML	REVISED		SHEET NO. B32 OF 32 SHEETS	ILLINOIS FED. AI		. AID PROJECT		

			Date	10/	7/09
eau Creek, North of Princi	eton L	DGGI	ED BY	_L. N	lyers
. 28, TWP. 17N, RNG. 9E 423293, Longitude -89.4	4 <sup>th</sup> <b>PM</b> , 69483				
em Auger HAMM	ER TYPE		ME A	utoma	tic
ace Water Elev618. eam Bed Elev621.	91 ft 89 ft	DE	BL	UC	M
indwater Elev.: it Encounter622	2.5_ft▼	T H	w s	Qu	s T
on Completion622 er Hrs	2 <u>.5</u> ft.∑ ft	(ft)	(/6")	(tsf)	(%)
Reddish Brown Silty Clay		_	13		
n Till (continued)			18 22	8.7 S	11
		-			
		_			
		_			
		-65	12		
			17	8.2	12
of Boring	569.95		20	S	
		_			
		-70			
		_			
		_			
		_			
		-75			
		-			
		_			
		-80			

![](_page_65_Figure_0.jpeg)

REVISED

SCALE:

SHEET NO. 2 OF 2 SHEETS

FILE NAME =

PLOT DATE = 8/3/2017

DATE

URE PLANS		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		316	(116 BR) BR	BUREAU	91	66		
				CONTRACT	F NO. 6	56A19		
	STA.	TO STA.	ILLINOIS FED. AID PROJECT					

![](_page_66_Figure_0.jpeg)

FILE NAME =	USER NAME = woodyerjp	DESIGNED -	REVISED -		Í	
pw://IL084EBIDINTEG.1111no1s.gov:PWIDOT/Do	cuments\IDOT_Offices\District_3\Projects\D36	ADRAWDData\GADsheets\details.dgn	REVISED -	STATE OF ILLINOIS	1	EXISTING STRUC
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	1	
	PLOT DATE = 8/3/2017	DATE -	REVISED -		SCALE:	SHEET NO. 2 OF 2 SHEETS

U	UNE FLANS		316	(116	BR)	BR		BUREAU	91	6	7
_								CONTRACT	' NO.	66A	19
	STA.	TO STA.			IL	LINOIS F	ED. AI	D PROJECT			

![](_page_67_Figure_0.jpeg)

STATE OF ILLINOIS **EXISTING STRUCT** LOT SCALE = 100.0000 '/ in. CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** SCALE: SHEET NO. 2 OF 2 SHEETS PLOT DATE = 8/3/2017 DATE REVISED

ABUTE HD.	4818-0X	**	antri Balacta		10000 to 1000	SHEET
36	115 B.R	BARE	<b>D</b> A	25	6	/7 яня
		-		0.4001-		1

TAL	BILL	OF	MATERI	AL

			a to a state to a state of the	
Item	Unif	Super	Sub.	Total
ete Surface Course Class I	Tons	83		83
Concrete Pavement (10")	59. Yds.	18		18
c	59.Yds.	18		18
/ · · · · · · · · · · · · · · · · · · ·	Sq.Yds.	60		60
ing Superstructures	Each	$\Gamma$		1
0/	Cu.Yds.		46	46
: (347)	Each		265	265
ation	Cu.Yds.	1	84	84
0	Cu.Ydg.	14.7	99.5	114.8
Bridge Slab	Sq. Ft.	164		164
d Concrete Deck Beams (27*)	59. Ft.	7402		7402
	Lbs.	6760		6760
pe T	Lin. Ft.	496		496
Bars	Lbs.	820	8720	9540
g Pilos 14"	Lin, Ft.		190	190
	Lin.Fl.		296	296
st Concrete	Each			1.
rete	Each			/
	Each			/
ial	Sq.Yds.			39
coment	Sq. Yds.			10
ge Ruil	Lin. Ft.	230		230
Mortar Fairing Course	Lin. Ft.	2280		2280
f Seal 2/2"	Lin, Fl.	66		66
t Seal. 4"	Lin. Ft.	33		33
embrone System	Sq. Yds.	822		822
2/)	Cu.Yds,			65
Anchors 34 4	Each	28		28

URE PLANS		F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		316	(116 BR) BR	BUREAU	91	68	
					CONTRACT	F NO. 6	6A19
	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		

![](_page_68_Figure_0.jpeg)

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ts\IDOT Offices\District 3\Projects\D3664	ADRACWOData\GADsheets\details.dgn	REVISED -	STATE OF ILLINOIS	1	EXISTING STR
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DATE = 8/3/2017	DATE -	REVISED -		SCALE:	SHEET NO. 2 OF 2 SHEETS
s S	AME = woodyerjp IDOT Offices\District 3\Projects\D366 CALE = 100.0000 '/ in. ATE = 8/3/2017	AME         = woodyer.jp         DESIGNED         -           IDD0         Offices\District 3\Projects\D36         ADRAMNData\GADsheets\details.dgn           CALE         = 100.0000 ' / in.         CHECKED         -           ATE         = 8/3/2017         DATE         -	AME         = woodyer.jp         DESIGNED         -         REVISED         -           IDD1         Offices\District 3\Projects\D36         AD%AWData\GaDsheets\details.dgn         REVISED         -           CALE         100.0000 '/ in.         CHECKED         -         REVISED         -           ATE         8/3/2017         DATE         -         REVISED         -	AME = woodyer.jp     DESIGNED -     REVISED -       ID01 0ffices\District 3\Projects\D36     REWISED -     STATE OF ILLINOIS       CALE = 100.0000 // in.     CHECKED -     REVISED -       ATE = 8/3/2017     DATE -     REVISED -	AME         swodyer.jp         DESIGNED         REVISED         -           IDD1         Offices\District 3\Projects\D36<#0#AWNData\GADsheets\details.dgn

![](_page_69_Figure_0.jpeg)

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	PLOT DATE = 8/3/2017	DATE -	REVISED -		SCALE:	SHEET NO. 2 OF 2 SHEETS

![](_page_70_Figure_0.jpeg)

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	PLOT SCALE = 100.0000 ' / 10.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	1	
	PLOT DATE = 8/3/2017	DATE -	REVISED -		SCALE:	SHEET NO. 2 OF 2 SHEETS

![](_page_71_Figure_0.jpeg)

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	PLOT SCALE = 100.0000 ' / 10.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		
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REVISED

PLOT DATE = 8/3/2017

DATE

TO STA.

ILLINOIS FED. AID PROJECT

SCALE:

SHEET NO. 2 OF 2 SHEETS STA.



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	PLOT DATE = 8/3/2017	DATE -	REVISED -		SCALE:	SHEET NO. 2 OF 2 SHEETS

 TURE PLANS
 RTE.
 SECTION
 COUNTY
 SHEETS
 NO.

 316
 (116 BR) BR
 BUREAU
 91
 76

 CONTRACT NO. 66A19

 STA.
 TO STA.
 ILLINOIS FED. AID PROJECT



DATE

PLOT DATE = 8/3/2017

REVISED

SCALE:

SHEET NO. 2 OF 2 SHEETS

-		40	DATE:	101204	#14.00T	BHEET NO. 13
38	1/588	BURE	ιA	25	ß	/7 SHERTS
PER ADAR	10. 10. F	NUMBER OF	***. ***	1004067-		]

Natched area indicates Concrete Removal. Reinforcement extending into removed area shall be cleaned and incorporated into the new construction. Cross hatched area shall be poured after beams are in place

place. Expansion Bolts shall be anchored in sound concrete. All edges shall have standard 4 chamfers except as noted.





BILL	OF	MA	TERIAI
0166	<b>L</b> 24		

-	// <u></u>	21 11	1111-1	17716
Bor	No.	Size	Length	Shape
hg	5	#5	11-3"	
ha	5	#5	20:3"	
hs	4	#5	3-9"	
Pe	8	#7	12:0"	
P3	8	\$7	21:0*	
P4	5	#5	12:0"	
PS	5	#5	21:0*	
-S <sub>1</sub>	33	#5	8:7*	19
35	10	#4	3-6"	n
	-	1.0	0/10	-
Uj.	6	#6	6-5	
v	70	#4	3:6"	
X,	14	#5	4:10*	L
Class .	X Conci	ete	Cu.Yds.	6.4
Reinfo	rcement	Bars	Lbs.	1500
Expans	tion Ba	11344	Each	25
Concre	te Rea	nova/	Cu.Ms.	2



			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
U	IRE PLAN	NS	316	(116 BR) BR	BUREAU	91	77		
	1		_		CONTRACT	F NO. 6	56A19		
	STA.	TO STA.	ILLINOIS FED. AID PROJECT						



TO STA. ILLINOIS FED. AID PROJECT



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	PLOT SCALE = 100.0000 ' / 10.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		
	PLOT DATE = 8/3/2017	DATE -	REVISED -		SCALE:	SHEET NO. 2 OF 2 SHEETS

U	RE PLANS		316	(116 E	R) BF		BL	JREAU	91	79	
							CO	NTRACT	NO.	66A19	1
	STA.	TO STA.			ILLING	IS FED. /	ID PRO	JECT			1
											-

PILE DATA Type: 14° R.C. Concrete Capacity: 45 Tons Est. Length: 38' No. Regul.: 2

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

21-3" Stage I Construction 12-3" Stage I Construction Symm. about & Rdwy. "Except Stage Constr. 4'-6" Elev. 633.07. 3:0" -Elov. 632,83 1-6" 1-6 27 - # 4 54 bors of ± 15 cts. Elev.633.02-6:11-6 level N0 04 level 11-#6 py bars See Sec. Thru Çap 11 - #6 p. bars See Sec. Thru Cap 11-#5 x,bors 32,2% \*9×02 Not the 1-3" min 14 Poirs 34° d Expansion Bolts at 15" cts 5° Typ. 29 Lop bors with clac Construction Joint (Typ.) See Art. 504.13 (a) (2) of Std. Specifications 540 Fec 3-85 bba (Each End ψ A 8,8;8, 4-#5 v3 bars at la cts. E.F. I Pair 34° & Exp. Bolts at 15" cts. (Each End) 3 Fan 4-#5vt bars Each Face (Each End) 11 0 ÷. -Elev. 614.15 t1-5" 1-8 1-8" ±1-5 19-2" 10-2" 212" 20-10" 11:10" END VIEW ELEVATION (LOOKING SOUTH) 2:04 . Stage I 1-1" R 07.2 2110/2 11" R. ESIGNED Thomas 4 Houstory ÷ 40 HECKED Jodd E. 2:7" 2:06" PARKED 2:3" 2:8" DRAWN R. P. Summer FOR INFORMATION ONLY BAR uz BAR US BAR SA SECTION A-A

FILE NAME =	USER NAME = woodyerjp	DESIGNED -	REVISED -						F.A.S. RTF.	SECTION	COUNTY	TOTAL	SHEET
pw://ILØ84EBIDINTEG.1llinois.gov:PWIDOT/Do	cuments\IDOT Offices\District 3\Projects\D36	ADRACWOData\GADsheets\details.dgn	REVISED -	STATE OF ILLINOIS EXISTING STRUCTURE PLANS		EXISTING STRUCTURE PLANS		316	(116 BR) BR	BUREAU	91	80	
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION							CONTRAC	T NO.	66A19
	PLOT DATE = 8/3/2017	DATE -	REVISED -		SCALE: SHEET NO. 2 OF 2 SHEETS STA. TO STA.			ILLINOIS FED.	AID PROJECT				



43

Face (Each

of 12°cts.Each.

#5 hebars

2

BUREAU COUNTY BAR XI STA. 1580+50.00



PLOT SCALE = 100.0000 '/ in.

PLOT DATE = 8/3/2017

Default

CHECKED

DATE

SCALE:

s		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		316	(116 BR)BR	BUREAU	91	81
		_		CONTRACT	T NO. 6	6A19
S STA.	TO STA.		ILLINOIS FED. AI	ID PROJECT		



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F	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION									CONTRAC	T NO.	66A1	Ţ
efault F	PLOT DATE = 8/3/2017	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. 4	ID PROJECT			



NOTE: ROUND ALL EDGE BREAKPOINTS IN FIELD

### TRANSITION CURVE TABLE

1.5%

SUPERELEVATION

''e'

3.2%

w	SUPERELEVATION RUNOFF LENGTH	TANGENT RUNOUT DISTANCE	SUPERELEVATION TRANSITION LENGTH
12.0'	82′	38′	120′

# SUPERELEVATION TRANSITION ON TWO-LANE HIGHWAY



COST OF SUPPLYING, INSTALLING, MAINTAINING AND REMOVING WIDTH RESTRICTION SIGNS SHALL BE INCLUDED IN THE COST OF THE WIDTH RESTRICTION SIGNING PAY ITEM.

THIS REQUIREMENT.

# WIDTH RESTRICTION SIGNING DETAILS

FILE NAME =	USER NAME = woodyerjp	DESIGNED -	REVISED -		DETAILS			F.A.	SECTION	COUNTY	TOTAL	SHEET			
pw:\\IL084EBIDINTEG.1llinois.gov:PWIDOT\Do	cuments\IDOT_Offices\District_3\Projects\D36	ADRAWDData\GADsheets\details.dgn	REVISED -	STATE OF ILLINOIS				DETAILO			316	(116 BR)BR	BUREAU	91	83
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION							_		CONTRAC	T NO.	66A19
Default	PLOT DATE = 8/3/2017	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

SIZE: 24" × 18"
4" CAPITAL LETTERS - BLACK
½″ BORDER - BLACK
WHITE REFLECTIVE - TYPE B ENGINEERING GRADE SHEETING

GENERAL NOTE:

THIS SIGN SHALL BE INSTALLED AT THE STOP LINE AS DIRECTED BY THE ENGINEER.















