STATE OF ILLINOIS

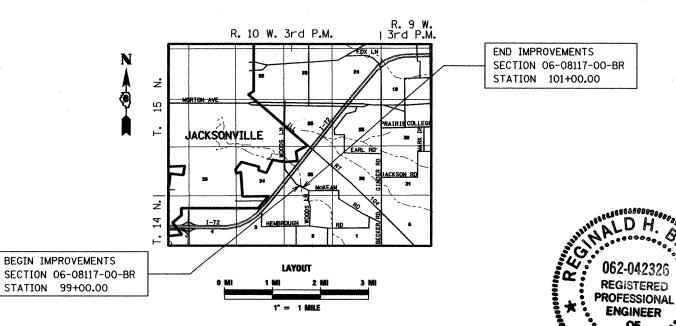
DEPARTMENT OF TRANSPORTATION

HIGHWAY BRIDGE PROGRAM

PROPOSED HIGHWAY PLANS

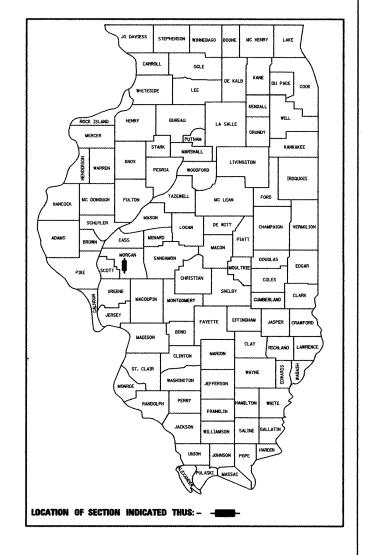
SECTION 06-08117-00-BR **PROJECT NO. BROS-137 (028) MORGAN COUNTY / ROAD DISTRICT #8** JOB NO. C-96-213-08

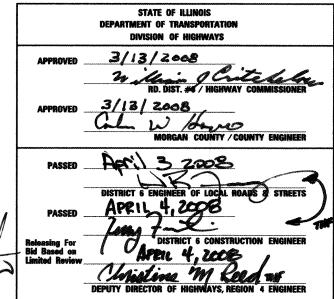
TR-195



LENGTH OF PROJECT = 200.00 FEET = 0.038 MILES NET LENGTH OF IMPROVEMENT = 200.00 FEET = 0.038 MILES DESIGN CLASS: MINOR COLLECTOR - ADT 450 DESIGN SPEED: 40 MPH

MORGAN 14 1 06-08117-00-BR TR-195 ILLINOIS CONTRACT NO.





INDEX OF SHEETS

SHEET NO. **COVER SHEET GENERAL NOTES & HIGHWAY STANDARDS** SUMMARY & SCHEDULE OF QUANTITIES TYPICAL SECTIONS PLAN AND PROFILE STRUCTURE PLANS

CROSS SECTIONS

EXISTING STRUCTURE

STRUCTURE NO. 069-3172 IS A SINGLE SPAN CONCRETE DECK ON STEEL I-BEAMS. WITH CONCRETE ABUTMENTS AND TIMBER PILES. STRUCTURE TO BE REMOVED. 34.0' BACK TO BACK ABUTMENTS BRIDGE WIDTH = 24.0' OUT TO OUT OF DECK

PROPOSED STRUCTURE

SINGLE SPAN PRECAST PRESTRESSED CONCRETE DECK BEAMS WITH REINFORCED CONCRETE OPEN ABUTMENTS ON METAL SHELL PILES. 67-0" BACK TO BACK ABUTMENTS 27'-0" OUT-TO-OUT OF BRIDGE DECK PROPOSED STRUCTURE NO. 069-3264



ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

UTILITIES:

VERIZON NORTH, INC. - TELEPHONE SMG WATER COOPERATIVE - WATER

J.U.L.LE.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

BENTON & ASSOCIATES, INC.

(217) 245-4146 (217) 245-4149 Fax

Kirksville Missour 1970 W. Lafayette Ave., Jacksonville IL 62650

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 93461

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TR-195 06-08117-00-BR MORGAN 1- CONTRACT NO	13 140.
	2
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	- 4

GENERAL NOTES

- 1. THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THE PLANS REPRESENTS THE BEST KNOWLEDGE OF THE COUNTY AND THE INDICATED ADJUSTMENTS OR RECONSTRUCTION ARE CONSIDERED TO BE REASONABLY ACCURATE. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY LOCATIONS OF UNDERGROUND INSTALLATIONS BEFORE STARTING CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL INDEMNIFY THE COUNTY, ITS OFFICERS, AND EMPLOYEES AGAINST ALL CLAIMS DUE TO DAMAGE TO CORPORATE OR PRIVATE PROPERTY RESULTING FROM HIS CONSTRUCTION OPERATIONS AS DESCRIBED IN ARTICLE 107.20 AND 107.26 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- 2. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.
- 3. FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

ALL HOT-MIX ASPHALT 2.016 TONS/CU. YD. AGGREGATE SURFACE COURSE...... 2.05 TON/CU. YD, STONE DUMPED RIPRAP..... 1.5 TON/CU, YD.

- 4. ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OUTSIDE THE LIMITS OF RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 5. UTILITIES ARE SHOWN IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION AND THEIR TRUE LOCATIONS ARE NOT GUARANTEED TO BE AS SHOWN IN THE PLANS.
- 6. SEEDING SHALL BE PLACED ON ALL AREAS THAT ARE DISTURBED BY CONSTRUCTION OPERATIONS. THE SEEDING SHALL BE DONE ACCORDING TO SECTION 250 OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND AS DIRECTED BY THE ENGINEER.
- 7. THE CONTRACTOR SHALL CONFINE HIS/HER OPERATIONS TO THE AREA LOCATED WITHIN THE CONSTRUCTION LIMITS, SHOWN ON THE PLANS. ANY AREA DISTURBED BEYOND THESE LIMITS SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- 8. ALL ELEVATIONS SHOWN REFER TO THE U.S.G.S. DATUM AT MEAN SEA LEVEL.
- 9. THE CONTRACTOR MAY BE REQUIRED TO CONDUCT SOME OF HIS GRADING AROUND TRANSMISSION POLES AND UNDER TRANSMISSION LINES. THE ADDED COST OF SO DOING SHALL BE INCLUDED IN THE COST OF THE EARTH EXCAVATION.
- 10. DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL COMPLY WITH THE LEGAL LOADING LIMITS ESTABLISHED BY THE COUNTY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY LUGS OR CLEATS ON TREADS OR WHEELS OR EQUIPMENT OR EXCESSIVE WEIGHTS AND LOADS.
- 11. STOCKPILING OF MATERIALS MAY BE ALLOWED ON COUNTY PROPERTY AT MUTUALLY AGGREEABLE LOCATIONS. NO STOCKPILING OF MATERIALS SHALL BE ALLOWED ON THE TRAVELED SURFACE OF EXISTING ROADS AND HIGHWAYS THAT ARE OPEN TO TRAFFIC.

- 12. IN ADDITION TO THE REQUIREMENTS OF ARTICLE 107.16, THE CONTRACTOR SHALL PROTECT THE SURFACE OF THE BRIDGE DECK IN A MANNER SATISFACTORY TO THE ENGINEER BEFORE ANY EQUIPMENT IS ALLOWED TO CROSS THE STRUCTURE. PROTECTION SHALL BE PROVIDED FOR ALL EQUIPMENT AS DEFINED IN ARTICLE 101.17 REGARDLESS IF TRACK MOUNTED OR WHEELED.
- 13. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 14. THE EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION WILL BE REMOVED OR RELOCATED AS DIRECTED BY THE ENGINEER ACCORDING TO ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS. AFTER THE CONSTRUCTION IS COMPLETE, THE CONTRACTOR WILL RE-ERECT THE SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT AND NO COMPENSATION WILL BE ALLOWED.
- 15. IN AREAS WHERE THE REMOVAL OF THE EXISTING ROADWAY SURFACE IS REQUIRED, THE CONTRACTOR MAY INCORPORATE THESE MATERIALS INTO THE PROPOSED EMBANKMENT. SURPLUS AND/OR UNSUITABLE MATERIAL SHALL BE DISPOSED OUTSIDE THE LIMITS OF THE RIGHT OF WAY IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE
- 16. ANY UNSUITABLE MATERIAL ENCOUNTERD DURING CONSTRUCTION SHALL BE REMOVED BY THE CONTRACTOR AND REPLACED WITH SUITABLE MATERIAL AS APPROVED BY THE ENGINEER, THIS WORK WILL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- 17. ANY FACILITIES OR APPURTENANCES WHICH ARE THE PROPERTY OF ANY PUBLIC UTILITY LOCATED WITHIN THE LIMITS OF CONSTRUCTION SHALL BE RELOCATED OR ADJUSTED BY THEIR RESPECTIVE OWNERS. THE CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE OWNERS OF ANY FACILITY IN THEIR REMOVAL AND REARRANGEMENT OPERATIONS IN ORDER THAT THESE OPERATIONS AND THE CONSTRUCTION OF THIS PROJECT MAY PROGRESS IN A REASONABLE MANNER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. THE FOLLOWING AGENCIES MAY HAVE FACILITIES WITHIN THE LIMITS OF CONSTRUCTION:

TELEPHONE - VERIZON WATER - SMG WATER COOPERATIVE

UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION FURNISHED BY THE UTILITY OWNERS AND MUST BE CONSIDERED APPROXIMATE. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS NOT PRESENTLY KNOWN OR SHOWN, IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXISTENCE AND EXACT LOCATION AND TO AVOID DAMAGE THERETO, FIELD LOCATIONS OF UNDERGROUND FACILITIES MAY BE OBTAINED BY PROVIDING A MINIMUM OF 48 HOURS ADVANCE NOTICE THROUGH THE J.U.L.I.E. SYSTEM BY CALLING 800-892-0123 OR BY DIRECT CONTACT WITH NON-MEMBERS OF J.U.L.I.E.

HIGHWAY STANDARDS

000001-05 - STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

280001-04 - TEMPORARY EROSION CONTROL SYSTEMS

515001-02 - NAME PLATE FOR BRIDGES

635006-02 - REFLECTOR AND TERMINAL MARKER PLACEMENT 701006-02 - OFF-RD OPERATIONS, 2L, 2W, 4.5 m (15') TO 600 mm (24") FROM PAVEMENT EDGE

701901 - TRAFFIC CONTROL DEVICES
BLR 21-7 - TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES

FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 23-2 - TRAFFIC BARRIER TERMINAL TYPE 1

- STEEL PLATE BEAM GUARDRAIL 700mm (27 1/2") HEIGHT - TRAFFIC BARRIER TERMINAL TYPE 5A

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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** **GENERAL NOTES AND LIST OF STANDARDS** WOODS LANE (TR-195) SHEET NO. 2 OF 14 SHEETS STA.

TO STA.

SECTION COUNTY MORGAN 14 2 FR-195 06-08117-00-BR CONTRACT NO. FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT

		SUMMARY OF QUANTITIES		TOTAL	FUNDING PARTICIPATION
	CODE NO.	ITEM	UNIT	QUANTITIES	X081-2A
	20200100	EARTH EXCAVATION	CU YD	80	80
	20300100	CHANNEL EXCAVATION	CU YD	588	588
*	25001000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.2	0.2
*	28100809	STONE DUMPED RIPRAP, CLASS A5	TON	252	252
	40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	178	178
	40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	28	28
*	50100200	REMOVAL OF EXISTING STRUCTURES	L SUM	1	1
	50200100	STRUCTURE EXCAVATION	CU YD	88	88
	50300225	CONCRETE STRUCTURES	CU YD	23.8	23.8
	50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	1764	1764
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3030	3030
	50900205	STEEL RAILING, TYPE S1	FOOT	133	133
	51201005	FURNISHING METAL SHELL PILES 12"	FOOT	410	410
	51202305	DRIVING PILES	FOOT	410	410
	51203200	TEST PILE METAL SHELLS	EACH	1	1
	51500100	NAME PLATES	EACH	1	1
	58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	196	196
Δ	63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	2	2
	67100100	MOBILIZATION	L SUM	1	1
*	70103700	TRAFFIC CONTROL COMPLETE	L SUM	1	1
Δ *	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4
Δ	LR631020	TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	2	2

A SPECIALTY ITEMS

* SEE SPECIAL PROVISIONS

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR-195	06-08117-00-BR	MORGAN	14	3
		CONTRACT	NO.	-
EEO BO	AD DIST NO. THE INDISCRED. A		110.	

93461

FOR INFORMATION ONLY - SCHEDULE OF EARTHWORK QUANTITIES

LOCATION	EARTH EXCAVATION CU YD	EMBANKMENT CU YD (1)	NEEDED BORROW (FOR INFO ONLY) CU YD (2)	CHANNEL EXCAVATION CU YD	WASTE (FOR INFO ONLY) CU YD
STA. 99+00.00 TO 99+66.50	42	62	36		
STA. 99+66.50 TO 100+33.50				588	480
STA. 100+33.50 TO 101+00.00	38′	88	72		
TOTALS	80	150	108	588	480

- 1 NO SHRINKAGE FACTOR APPLIED TO THE EMBANKMENT QUANTITY
 2 A 25% EXPANSION FACTOR WAS USED IN COMPUTING BORROW QUANTITY
 3 EXCAVATION REQUIRED FOR AGG SURF COURSE IS MEASURED AND PAID FOR AS EARTH EXCAVATION

HOT-MIX ASF	PHALT MIXTUR	E REQUI	REMENTS
ITEM	AGGREGATE COMPOSITION	ASPHALT GRADE	DESIGN AIR VOIDS
HMA SURFACE CSE	IL-9.5 OR 12.5 MIX "C"	PG 64-22	4.0% @ N50

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	PLOT SCALE = 100.0000 '/ IN.	CHECKED	-	RHB	REVISED	-	
	PLOT DATE = 3/14/2008	DATE	_	JAN. 24, 2008	REVISED	-	_

. 1	SUMMARY A	AND :	SCHEDUL	E OF Q	JANTITIES	RTE.	SECTION	COUNTY	TOTAL	SHEE NO.
			LANE (TR-195	06-08117-00-BR	MORGAN	14	3
								CONTRACT	NO.	
	SHEET NO. 3	OF 14	SHEETS	STA.	TO STA.	FED. RO	AD DIST. NO. ILLINOIS FED.	AID PROJECT		

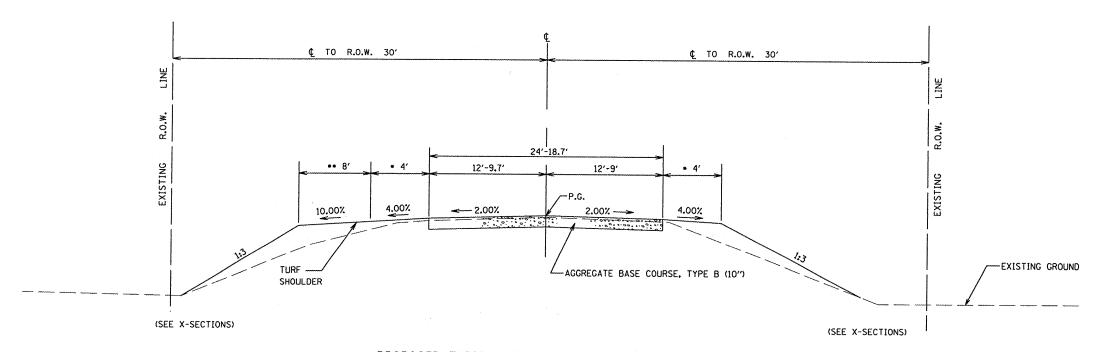
RTE. SECTION COUNTY SHEET NO.

TR-195 OG-08117-00-BR MORGAN 14 4

CONTRACT NO.

FED. ROAD DIST. NO. | ILL INDIS | FED. AID PROJECT |

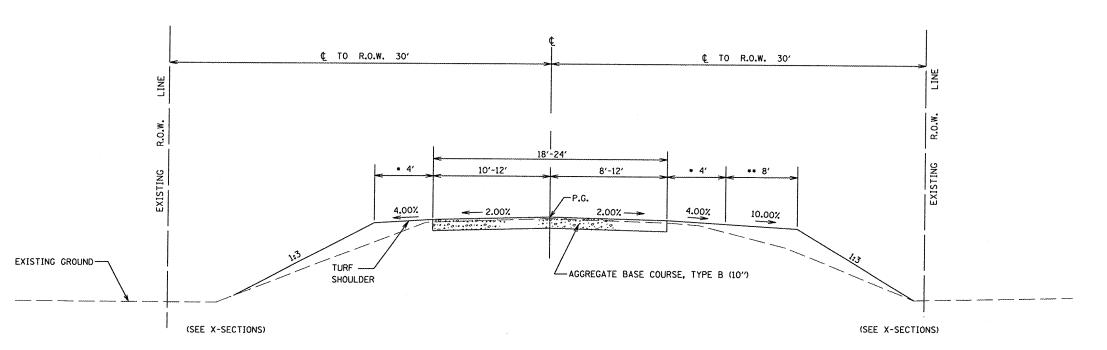
TOTAL | SHEET | NO. | 14 4



PROPOSED TYPICAL SECTION - WOODS LANE (TR-195)

NOT TO SCALE

STA. 100+33.40 TO 101+00.00 TRANSITION BRIDGE TO EXISTING



PROPOSED TYPICAL SECTION - WOODS LANE (TR-195)

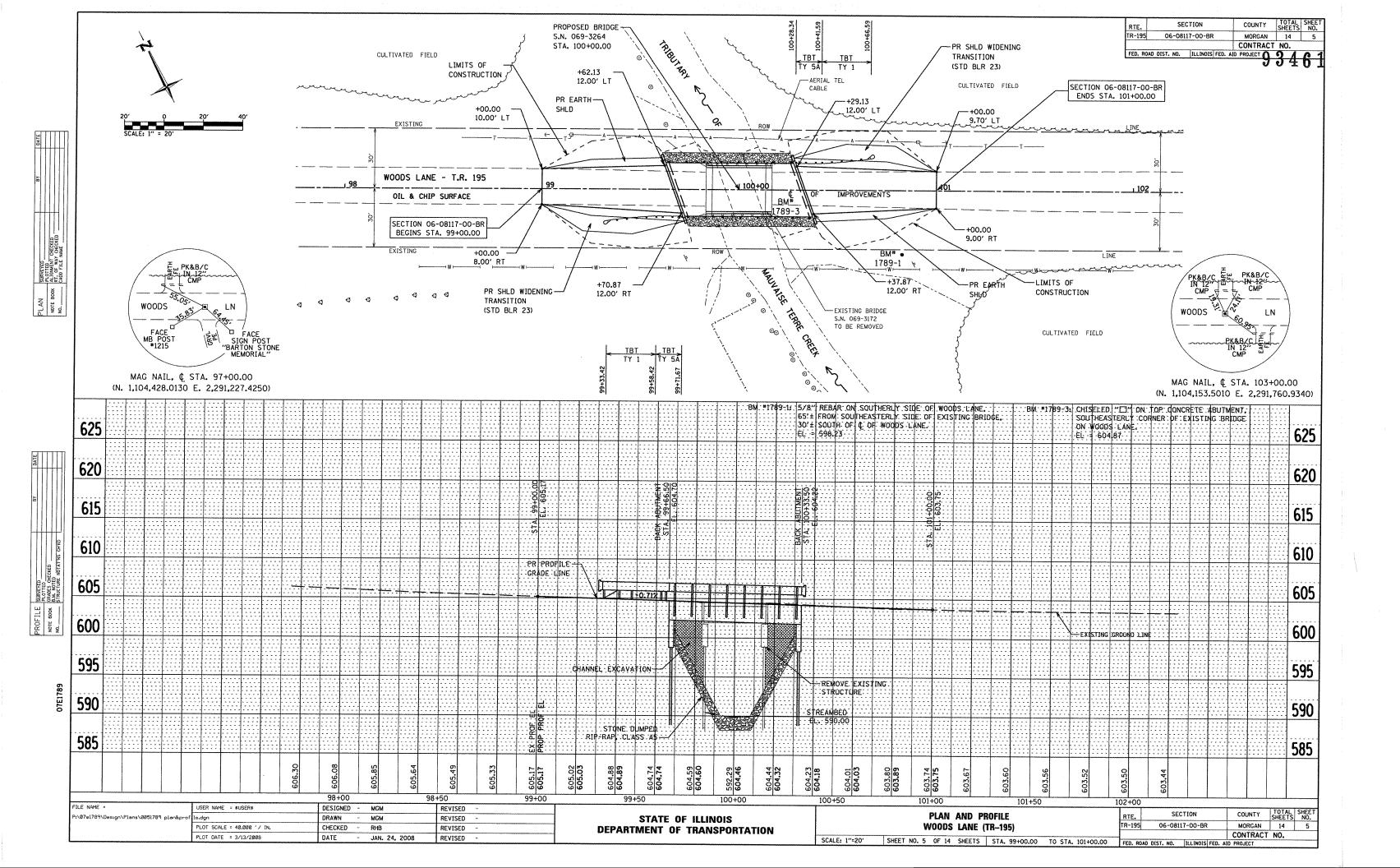
NOT TO SCALE

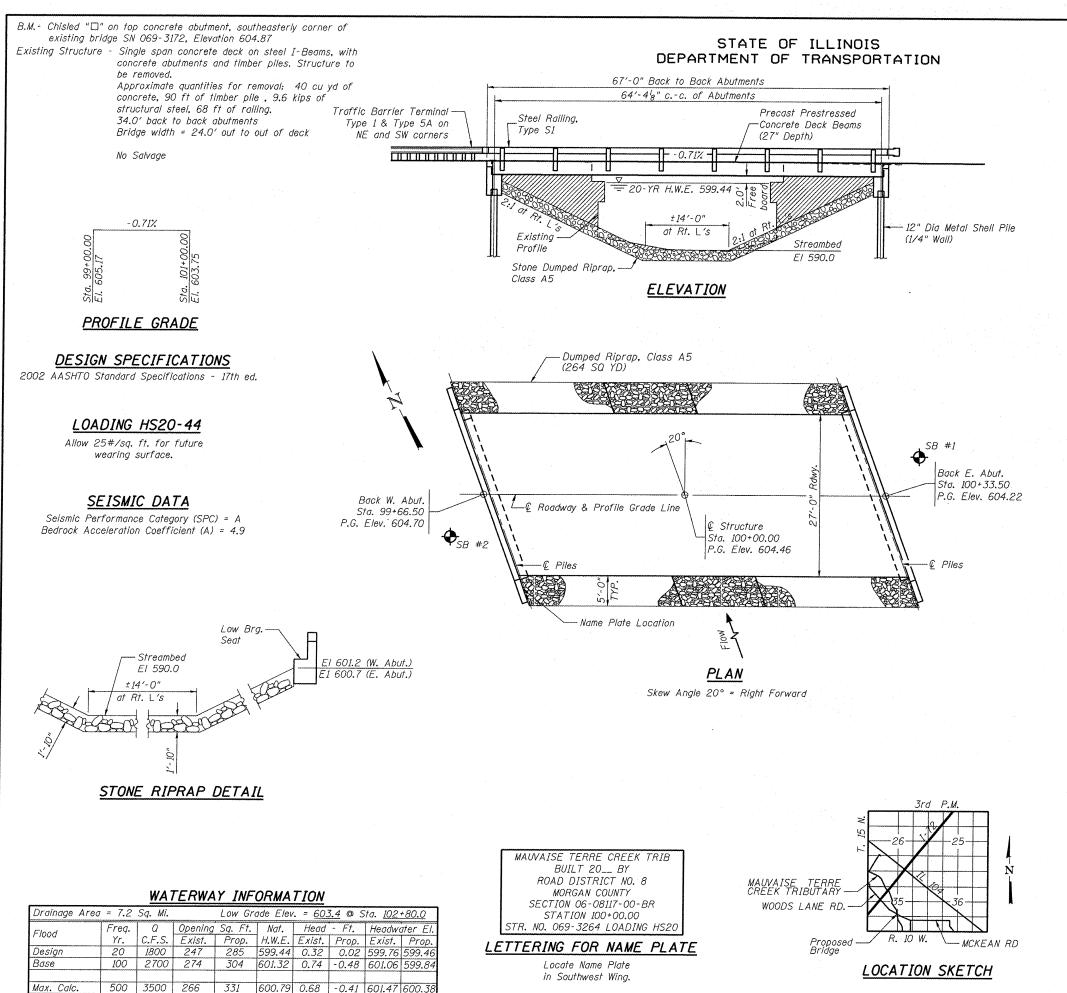
STA. 99+00.00 TO 99+66.50 TRANSITION EXISTING TO BRIDGE

NOTE:

- * TRANSITION EARTH SHLD. FROM O' WIDE TO 4' WIDE. STA. 99+00.00 TO 99+25.00, RT & LT SIDE TRANSITION EARTH SHLD. FROM 4' WIDE TO O' WIDE, STA. 100+75.00 TO 101+00.00, RT & LT SIDE
- ** TRANSITION EARTH SHLD. WIDENING FROM O' WIDE TO 8' WIDE, STA. 99+00.00 TO 99+20.92, RT SIDE TRANSITION EARTH SHLD. WIDENING FROM 8' WIDE TO O' WIDE, STA. 99+45.92 TO 99+66.50, RT SIDE TRANSITION EARTH SHLD. WIDENING FROM O' WIDE TO 8' WIDE, STA. 100+33.50 TO 100+54.09, LT SIDE TRANSITION EARTH SHLD. WIDENING FROM 8' WIDE TO O' WIDE, STA. 100+79.09 TO 101+00.00, LT SIDE

FILE NAME ≈	USER NAME = \$USER\$	DESIGNED - MGM	REVISED -			I TOTAL IS
P:\07e1789\Design\Plans\0041789 Typical	ections Sheetidgn	DRAWN - MGM	REVISED ~	STATE OF ILLINOIS	TYPICAL SECTIONS	RTE. SECTION COUNTY SHEETS
	PLOT SCALE = 100.0000 '/ IN.	CHECKED - RHB	REVISED -	DEPARTMENT OF TRANSPORTATION	WOODS LANE (TR-195)	FR-195 06-08117-00-BR MORGAN 14
<u> </u>	PLOT DATE = 3/13/2008	DATE ~ JAN. 24, 2008	REVISED ~		SCALE: SHEET NO. 4 OF 14 SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT





RTE. SECTION COUNTY TOTAL SHEET NO. TR-195 06-08117-00-BR MORGAN 14 6 FED. ROAD DIST. NO. ILLINOIS CONTRACT NO.

SHEET NO. 1
4 SHEETS

GENERAL NOTES

- The Contractor shall drive 1 test pile to 110% of the nominal required bearing, as specified, in a permanent location as directed by the Engineer before ordering the remaining piles.
 - See Special Provisions for boring logs.
- 3. A Corrosian inhibitor, according to Article 1020.05(b)(12), shall be used in the concrete for precast prestressed concrete deck beams.

INDEX OF SHEETS

- General Plan & Elevation
 Superstructure Details
- 3. Abutment Details
- 4. Type S-1 Steel Railing

TOTAL BILL OF MATERIAL

TOTAL BILL OF MATERIAL								
Item	Unit	Super	S	T-+-/				
170111	Orm	Super	Piers	Abuts.	Total			
Removal of Existing Structures	L Sum				1			
Hot-Mix Asphalt Surface Course, Mix "C", N5O	Ton	28			28			
Waterproofing Membrane System	Sq. Yd.	196			196			
Concrete Structures	Cu. Yd.			23.8	23.8			
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	1764			1764			
Steel Railing, Type S-1	Foot	133			133			
Reinforcement Bars, Epoxy Coated	Pound			3030	3030			
Furnishing Metal Shell Piles 12"	Foot			410	410			
Driving Piles	Foot			410	410			
Test Pile Metal Shells	Each			1	1			
Name Plates	Each	1			1			
Stone Dumped Riprap, Class A5	Ton			252	252			
Structure Excavation	Cu. Yd.			88	88			
Channel Excavation	Cu, Yd,			588	588			

081-004623 LICENSED STRUCTURAL ENGINEER OF JACKSONVILLE

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of the structure and complies with requirements of the current "AASHTO Standard Specifications for Highway Bridges".

EXPIRED: 1430-2008)
BY KINGMAN HOUTE

S DATE 3/17/2008

	DRAWN BY	JLL	GENERAL	L PLAN AND EL	EVATION
	CHECKED B	Y NRF		S.N. 069-3264	
	APPROVED	BYREG	BR	IDGE TR-195 O	/FR
	DATE JANL	JARY 2008	MAUVAISE TERRE CREEK TRIBUTARY		
	REVIS	SIONS	MODO	AN COUNTY III	THOTO
	DATE	BY	MURG	AN COUNTY, ILL	.1NU15
Consulti 1970 West La Phone: 21				BENTON & ASSO Consulting Engineers 970 West Lafayette Ave. Phone: 217-245-4146 IL Design Firm Registra	s / Land Surveyors Jacksonville, IL 62650 Fax: 217-245-4149
	FIELD BOOK	:	SCALE:	JOB NO. 07E1789	SHEET 6 OF 14

