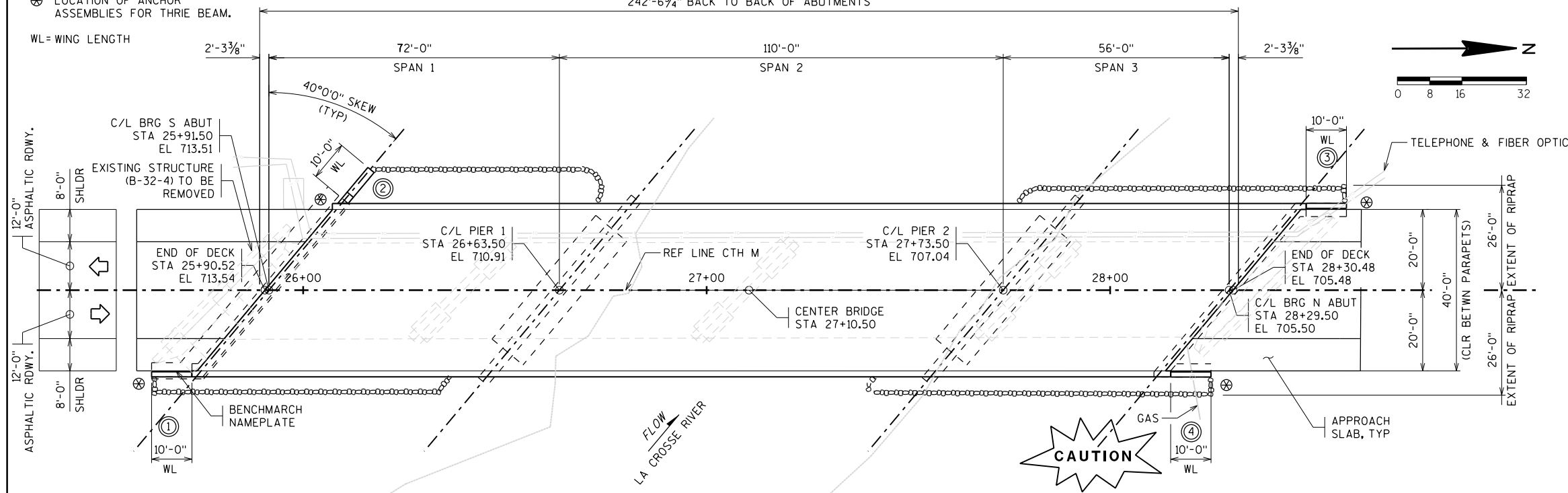


⊙ INDICATES WING NUMBER.

⊗ LOCATION OF ANCHOR ASSEMBLIES FOR THRIE BEAM.

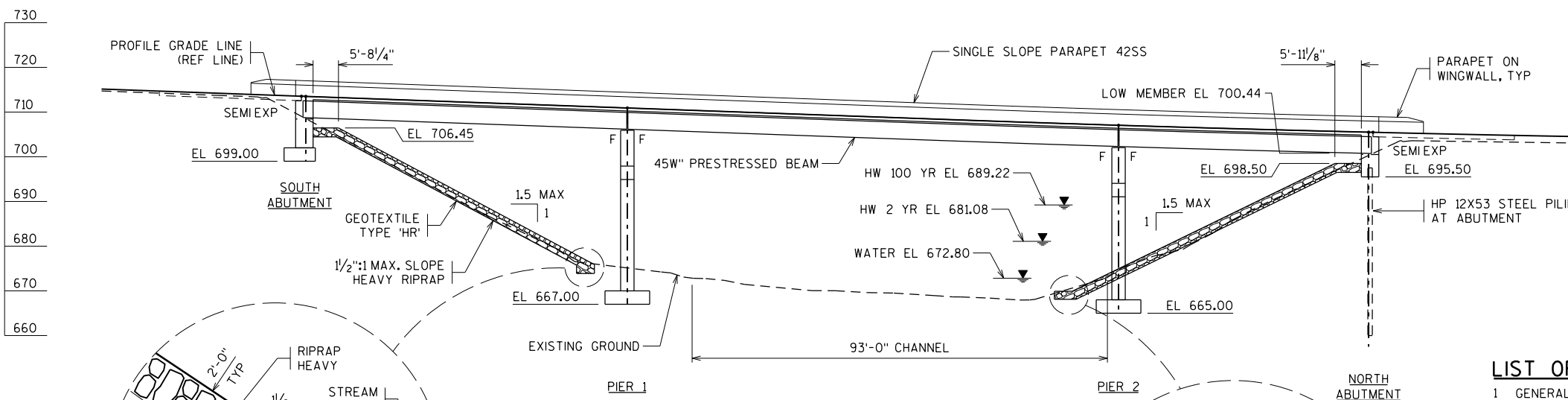
WL = WING LENGTH

242'-6 3/4" BACK TO BACK OF ABUTMENTS



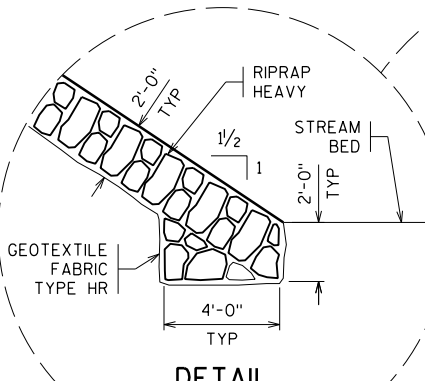
PLAN

THREE SPAN - 45W" PRESTRESSED CONCRETE GIRDER BRIDGE

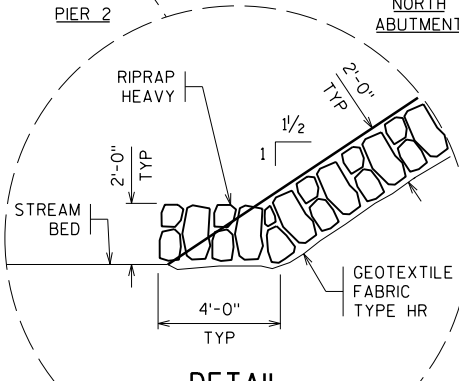


ELEVATION

(NORMAL TO C/L CTH M)



DETAIL



DETAIL

BENCHMARK (DATUM = NAVD 88)

NO	STATION	DESCRIPTION	ELEV
BM 1	24+53.11 50.43' RT	SPIKE IN POWER POLE	722.48
BM 2	26+26.49 50.05' LT	SPIKE IN GUY POLE	716.08
BM 3	30+23.72 51.99' RT	SPIKE IN POWER POLE	704.77

LIST OF DRAWINGS

- 1 GENERAL PLAN
- 2 CROSS SECTION, NOTES AND QUANTITIES
- 3 SUBSURFACE EXPLORATION

DESIGN DATA

LIVE LOAD:
 DESIGN LOADING = HL-93
 INVENTORY RATING FACTOR: RF = XX
 OPERATING RATING FACTOR: RF = XX
 WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = KIPS

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 PSF

INVENTORY AND OPERATING RATINGS DO NOT INCLUDE FUTURE WEARING SURFACE.

ULTIMATE DESIGN STRESSES:
 CONCRETE MASONRY - SUPERSTRUCTURE (HPC) f'c = 4 ksi
 - ALL OTHER (GRADE A) f'c = 3.5 ksi

HIGH STRENGTH BAR STEEL REINFORCEMENT
 AASHTO GRADE 60 fy = 60 ksi

45W" PRESTRESSED GIRDER
 CONCRETE MASONRY f'c = 8 ksi

STRANDS, 0.6" DIA ULTIMATE
 TENSILE STRENGTH fy = 270ksi

STEEL DIAPHRAGMS fy = 36 ksi

FOUNDATION DATA

NORTH ABUTMENT TO BE SUPPORTED ON HP 12x53 STEEL PILING WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS* PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC EQUATION, ESTIMATED 40 FEET LONG AT NORTH ABUTMENT.

*THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES FORMULA TO DETERMINE DRIVEN PILE CAPACITY.

SOUTH ABUTMENT AND PIERS WITH SPREAD FOOTINGS TO BE SUPPORTED ON SOUND ROCK WITH A REQUIRED FACTORED BEARING RESISTANCE OF 3.6 KSI. A GEOTECHNICAL ENGINEER WITH THREE DAYS NOTICE WILL DETERMINE THE FACTORED BEARING RESISTANCE BY VISUAL INSPECTION PRIOR TO CONSTRUCTION OF THE FOOTINGS.

HYDRAULIC DATA

100 YEAR FREQUENCY
 Q₁₀₀ 8600 CFS
 Q₁₀₀ OVER ROADWAY 0 CFS
 VELOCITY 3.43 FPS
 HIGH WATER EL 689.22 FT
 WATERWAY AREA 2511 SQ FT
 DRAINAGE AREA 390 SQ MI

SCOUR CODE ----

2 YEAR FREQUENCY
 Q₂ 2100 CFS
 Q₂ HIGH WATER EL 681.08 FT
 Q₂ VELOCITY 1.71 FPS

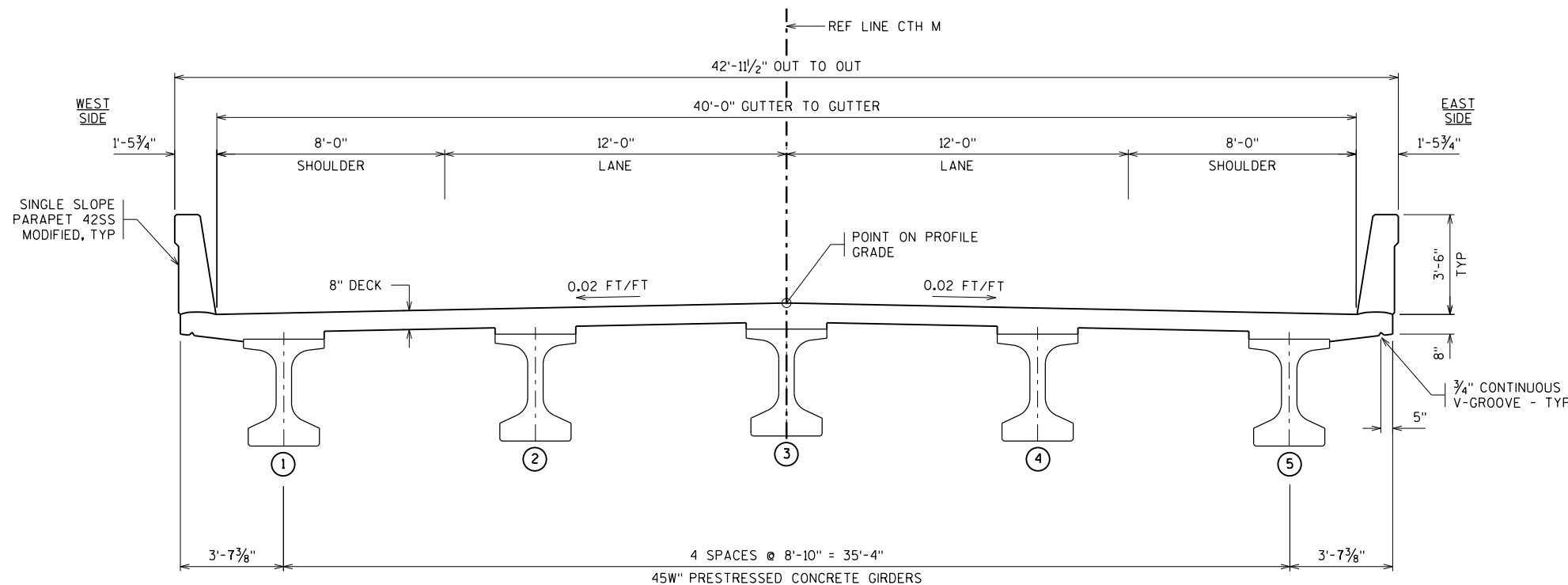
TRAFFIC DATA

ADT (2024) = 1470
 ADT (2044) = 1625
 DHV = -
 DD = -
 T = 17.4%
 DESIGN SPEED = 45 MPH
 ESALS = 518,300

NO.	DATE	REVISION	BY
<p>SHORT ELLIOTT HENDRICKSON INC.</p> <p>STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION</p>			
<p>ACCEPTED: _____ CHIEF STRUCTURES DESIGN ENGINEER DATE _____</p> <p>STRUCTURE B-32-245</p> <p>CTH M OVER LA CROSSE RIVER</p>			
COUNTY LA CROSSE		VILLAGE WEST SALEM	
DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS			
DESIGNED BY NCK	DESIGN CK'D. ---	DRAWN BY NCM/RAD	PLANS CK'D. NCK
GENERAL PLAN			SHEET 1 OF 3

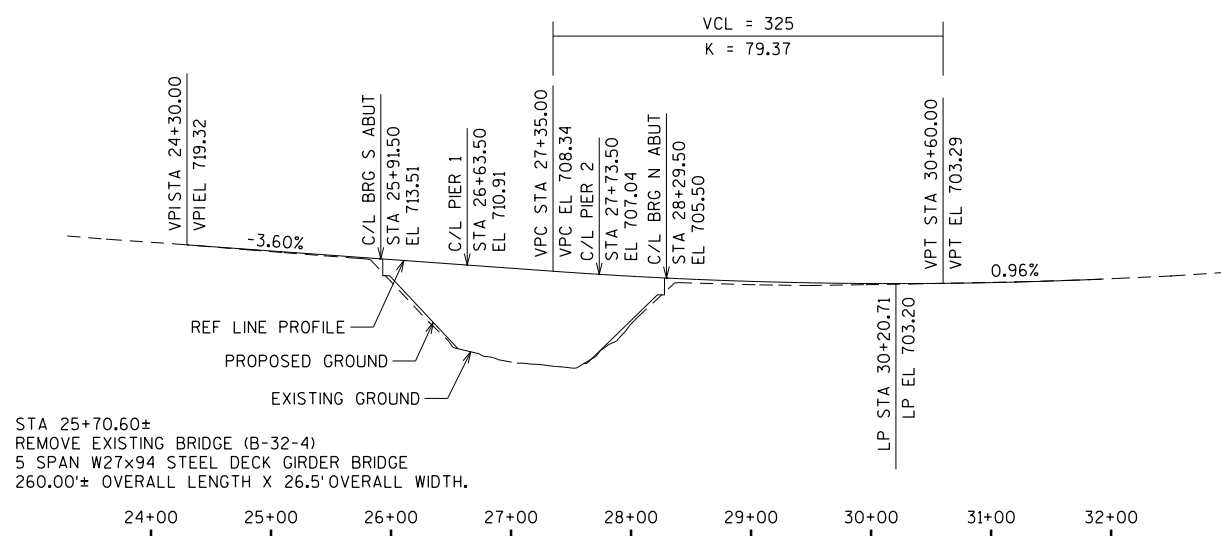
GENERAL NOTES

- DRAWINGS SHALL NOT BE SCALED.
- ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.
- ALL STATIONS AND ELEVATION ARE IN FEET. ELEVATIONS ARE REFERENCE TO THE NAVD 88 (2007) DATUM.
- BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE NOTED.
- THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.
- JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF AASHTO DESIGNATION M153 TYPE 1, 2, OR 3 OR AASHTO DESIGNATION M213.
- THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE TYPE HR TO THE EXTENT SHOWN ON THE GENERAL PLAN SHEET AND IN THE ABUTMENTS DETAILS.
- THE EXISTING GROUNDLINE SHALL BE THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES.
- AT ABUTMENTS, ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL UNLESS OTHERWISE NOTED.
- THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE PRESTRESSED GIRDER DETAILS SHEET.
- BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.
- SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF 1/2" FILLER WITH NON-STAINING NON-ASPHALTIC JOINT SEALER (1" DEEP & HOLD 1/8" BELOW SURFACE OF CONCRETE).
- COAT WITH "PROTECTIVE SURFACE TREATMENT" PER THE STANDARD SPECIFICATIONS AND THE SUPERSTRUCTURE DETAILS SHEET. APPLY PROTECTIVE SURFACE TREATMENT TO TOP OF BRIDGE DECK, TOP OF STRUCTURAL APPROACH SLAB, AND TOP AND INSIDE FACES OF PARAPETS.
- FOR EXISTING STRUCTURE SEE PROFILE GRADE LINE THIS SHEET.



CROSS SECTION THRU BRIDGE
(LOOKING NORTH)

BID ITEM NUMBER	BID ITEMS	UNIT	SOUTH ABUT	PIER 1	PIER 2	NORTH ABUT	SUPER	TOTALS
203.0220	REMOVING STRUCTURE B-32-4	EACH						
203.0330	DEBRIS CONTAINMENT B-32-245	EACH						
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-32-245	LS						
210.1500	BACKFILL STRUCTURE TYPE A	TON						
502.0100	CONCRETE MASONRY BRIDGES	CY						
502.3200	PROTECTIVE SURFACE TREATMENT	SY						
502.3210	PIGMENTED SURFACE SEALER	SY						
503.0146	PRESTRESSED GIRDER TYPE I 45W-INCH	LF						
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB						
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB						
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH						
506.4000	STEEL DIAPHRAGMS B-32-245	EACH						
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY						
550.1120	PILING STEEL HP 12-INCH X 53 LB	LF						
606.0300	RIPRAP HEAVY	CY						
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF						
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH						
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY						
645.0120	GEOTEXTILE TYPE HR	SY						
NON-BID ITEMS								
	FILLER	SIZE	-	-	-	-	-	1/2" & 3/4"
	NAMEPLATE	EACH	1	-	-	-	-	1



PROFILE GRADE LINE
(CTH M)

STA 25+70.60±
REMOVE EXISTING BRIDGE (B-32-4)
5 SPAN W27x94 STEEL DECK GIRDER BRIDGE
260.00± OVERALL LENGTH X 26.5' OVERALL WIDTH.

NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-32-245			
DRAWN BY NCM/RAD		PLANS CK'D. NCK	
CROSS SECTION, NOTES AND QUANTITIES			SHEET 2 OF 3