

STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

EVEZ EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.

UPPER LIMITS OF "EXCAVATION FOR STRUCTURES STALL BE THE EXISTING

AT THE BACK FACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TYPE A.

EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-O" ABOVE BOTTOM OF ABUTMENT.

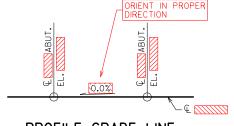
THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN

ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.

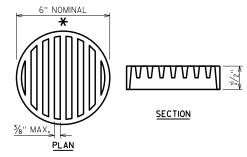
PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE EXPOSED TOP OF DECK AND APPROACH SLAB SURFACES AND TO THE VERTICAL AND HORIZONTAL SURFACES OF THE PAVING NOTCHES AT ABUTMENT DIAPHRAGMS.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIPRAP AND GEOTEXTILE TYPE "HR" TO THE EXTENT SHOWN ON SHEET 1 AND THE ABUTMENT DETAILS.

AT ABUTMENTS, CONCRETE POURED UNDER WATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATIONS.



PROFILE GRADE LINE

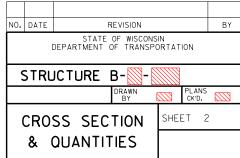


RODENT SHIELD DETAIL

 \bigstar dimensions are approximate the grate is sized to fit into a pipe coupling orient so slots are vertical.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER, A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO.10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



30'-6" OUT TO OUT OF SUPERSTRUCTURE 1'-3" 28'-0" CLEAR BETWEEN BARRIERS 1'-3" LANE LANE SHLD. SHLD. CROWN POINT/POINT -TUBULAR STEEL RAILING TYPE 'M' (TYP.) REFERRED TO ON PROFILE GRADE LINE CALCULAR TIPES ND COMPLETE TIBLE -TOP OF BERM

CROSS SECTION THRU ROADWAY

BENCH MARK

8

NO.	STATION	DESCRIPTION								

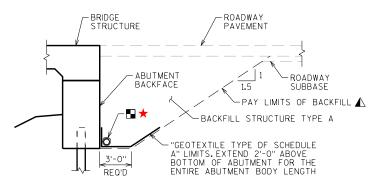
TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	SVI	SUPER	ABUT.	ABUT.	TOTALS
203.0500.S	REMOVING OLD STRUCTURE OVER WATERWAY STA.					1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-	LS	()			1
210.1500	BACKFILL STRUCTURE TYPE A	TON		186	186	3 7 2
502.0100	CONCRETE MASONRY BRIDGES	CY	71	33	33	137
502.3200	PROTECTIVE SURFACE TREATMENT	SY	131			131
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	В		2,080	2,080	4,160
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	16,190	1,580	1,580	19,350
513.4061	RAILING TUBULAR TYPE M	LF	7 9			7 9
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY		13	13	26
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF				
606.0300	RIPRAP HEAVY	CY				
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF		70	70	140
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY		34	34	68
645.0120	GEOTEXTILE TYPE HR	SY		200000		
	NON-BID ITEMS					
	FILLER	SIZE				1/2", 3/4", 11/2

ABUTMENT BACKFILL DIAGRAM

- = OUT TO OUT OF ABUTMENT BODY (FT) = AVERAGE ABUTMENT FILL HEIGHT (FT)

- = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)
- = (L)(3.0')(H) + (L)(0.5)(1.5H)(H) + (3.0')(0.5)(W1+W2)(H)

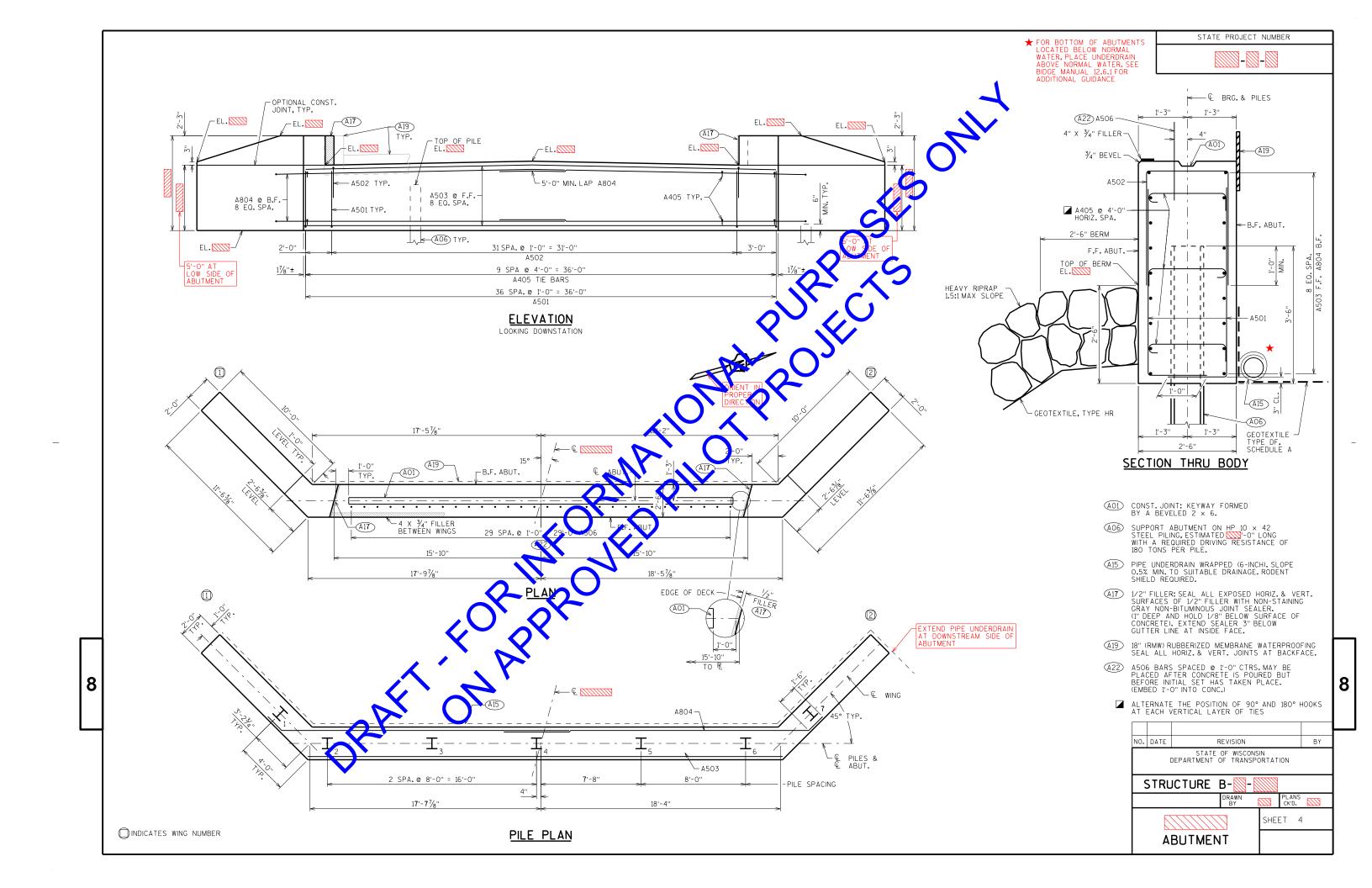


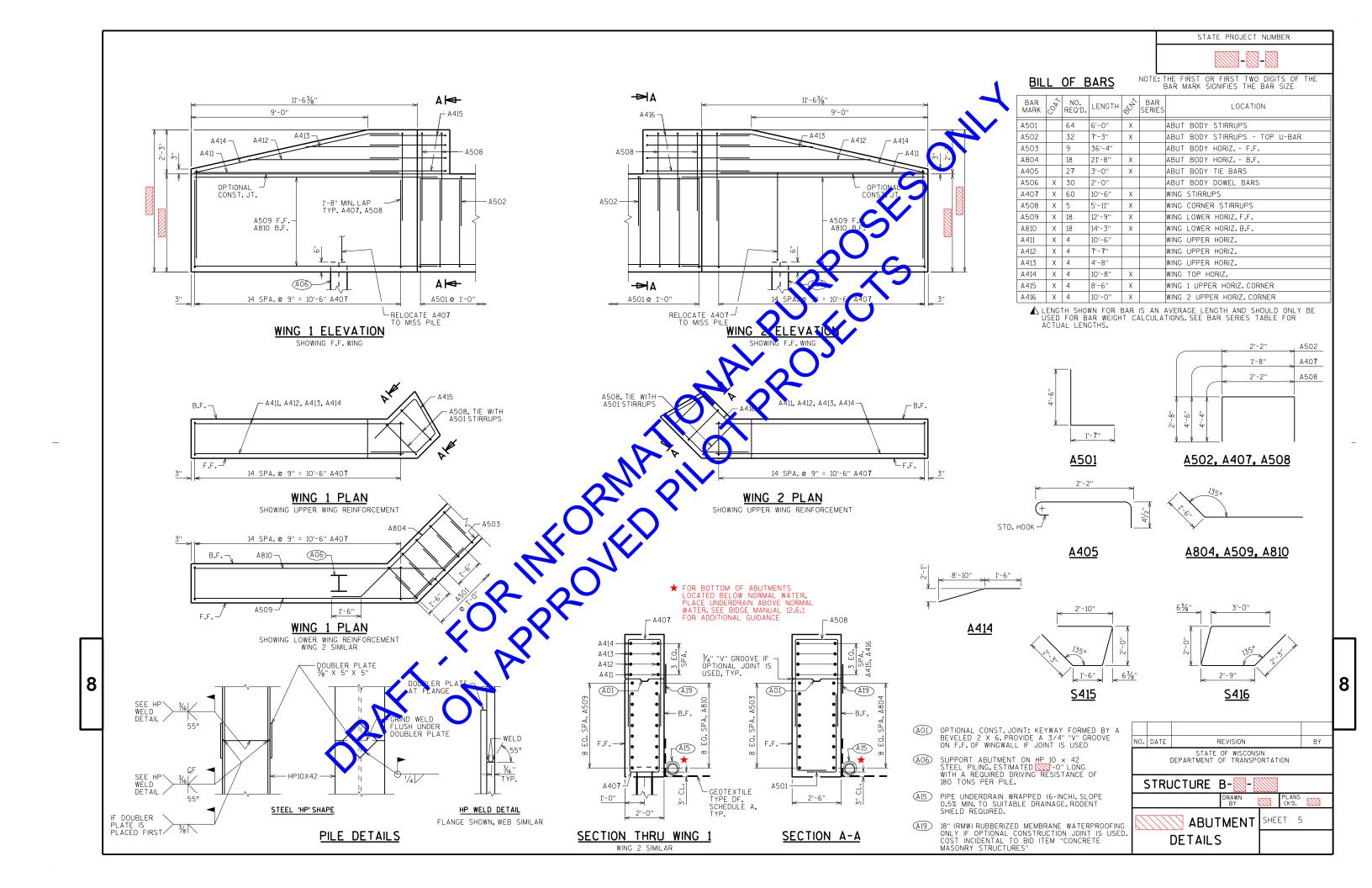
TYPICAL SECTION THRU ABUTMENT

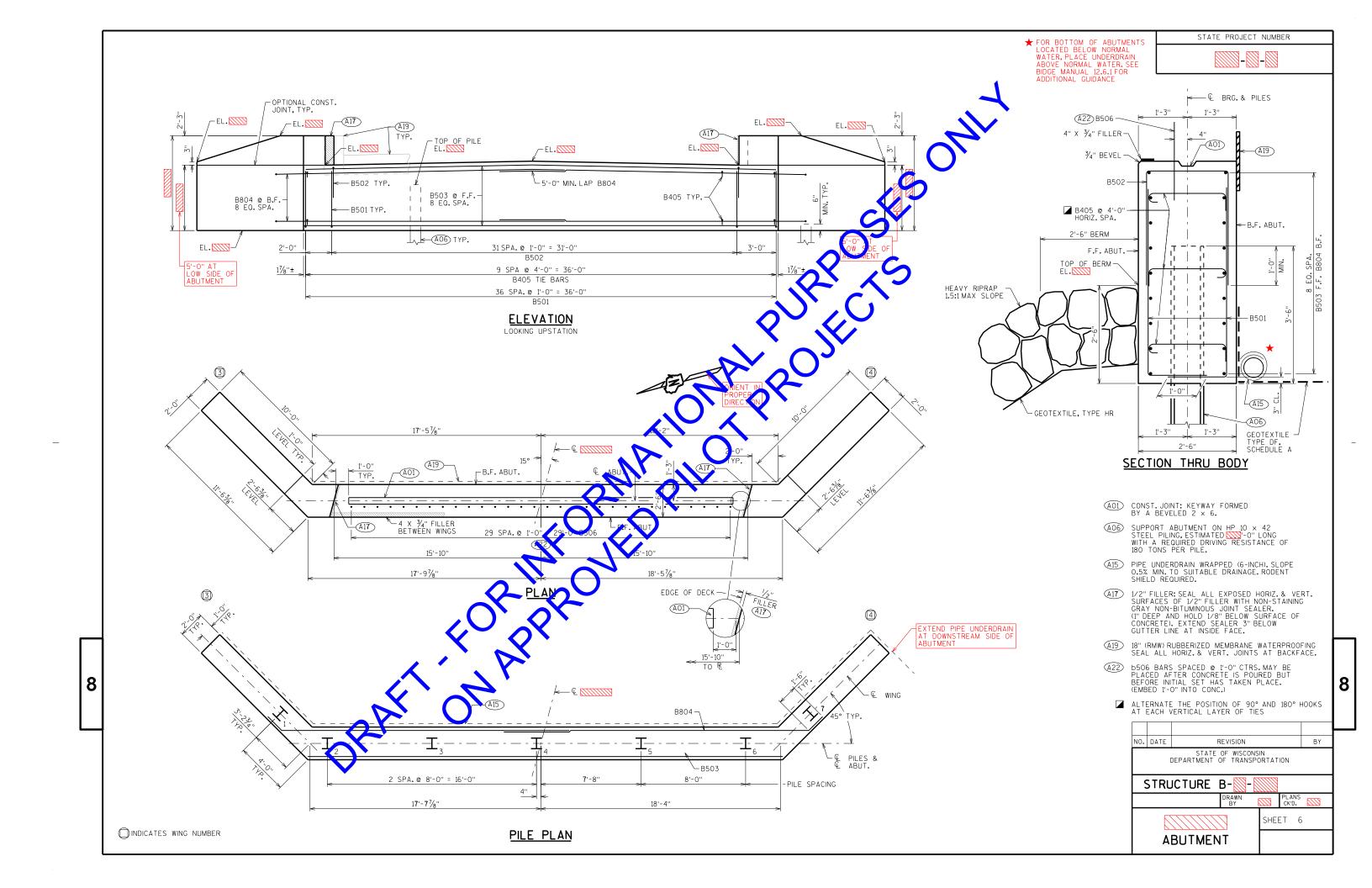
- ⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.
- PIPE UNDERDRAIN WRAPPED (6 INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN.

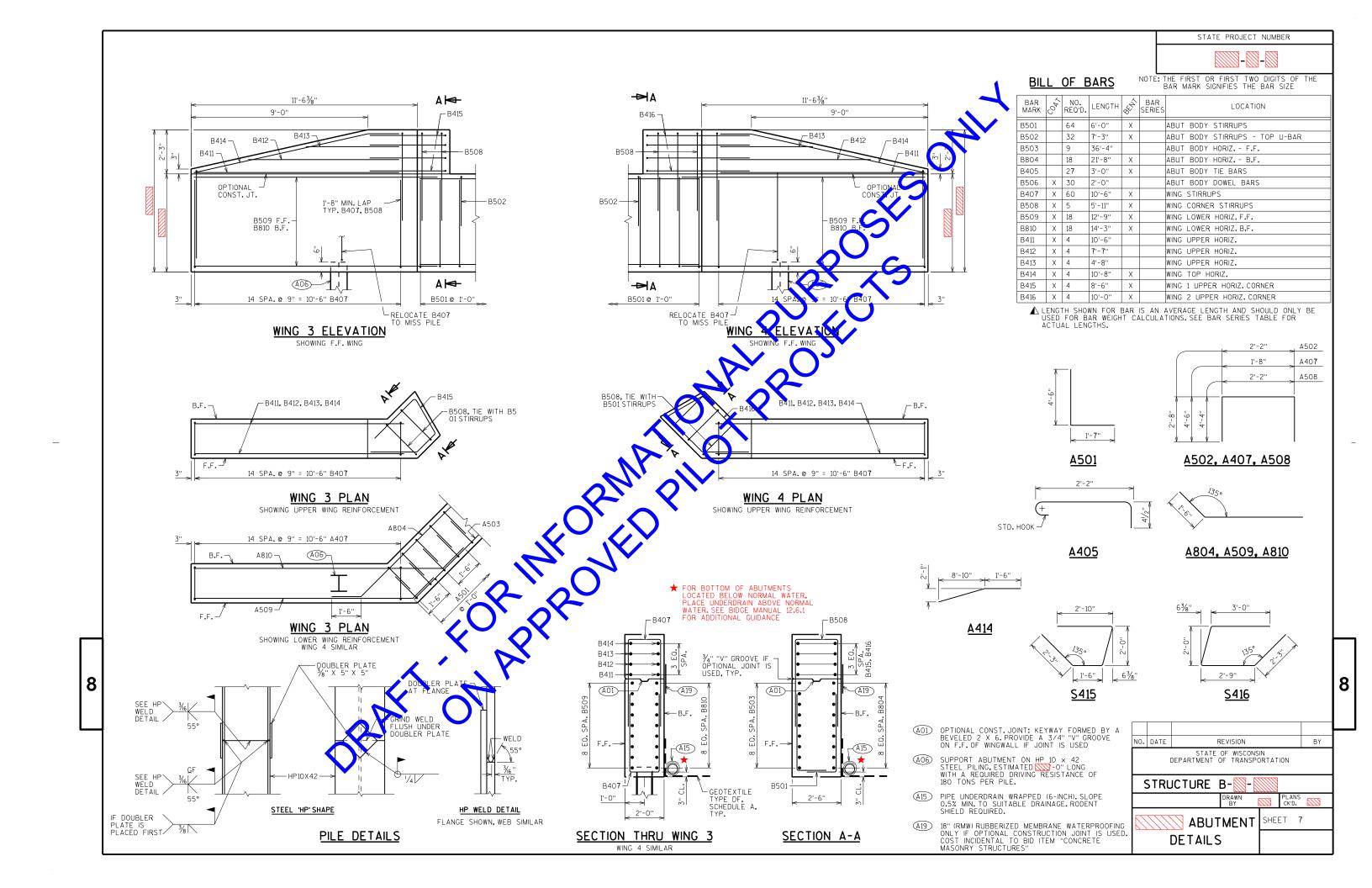
LOCATED BELOW NORMAL
WATER, PLACE UNDERDRAIN
ABOVE NORMAL WATER, SEE
BIDGE MANUAL 12.6.1 FOR
ADDITIONAL GUIDANCE

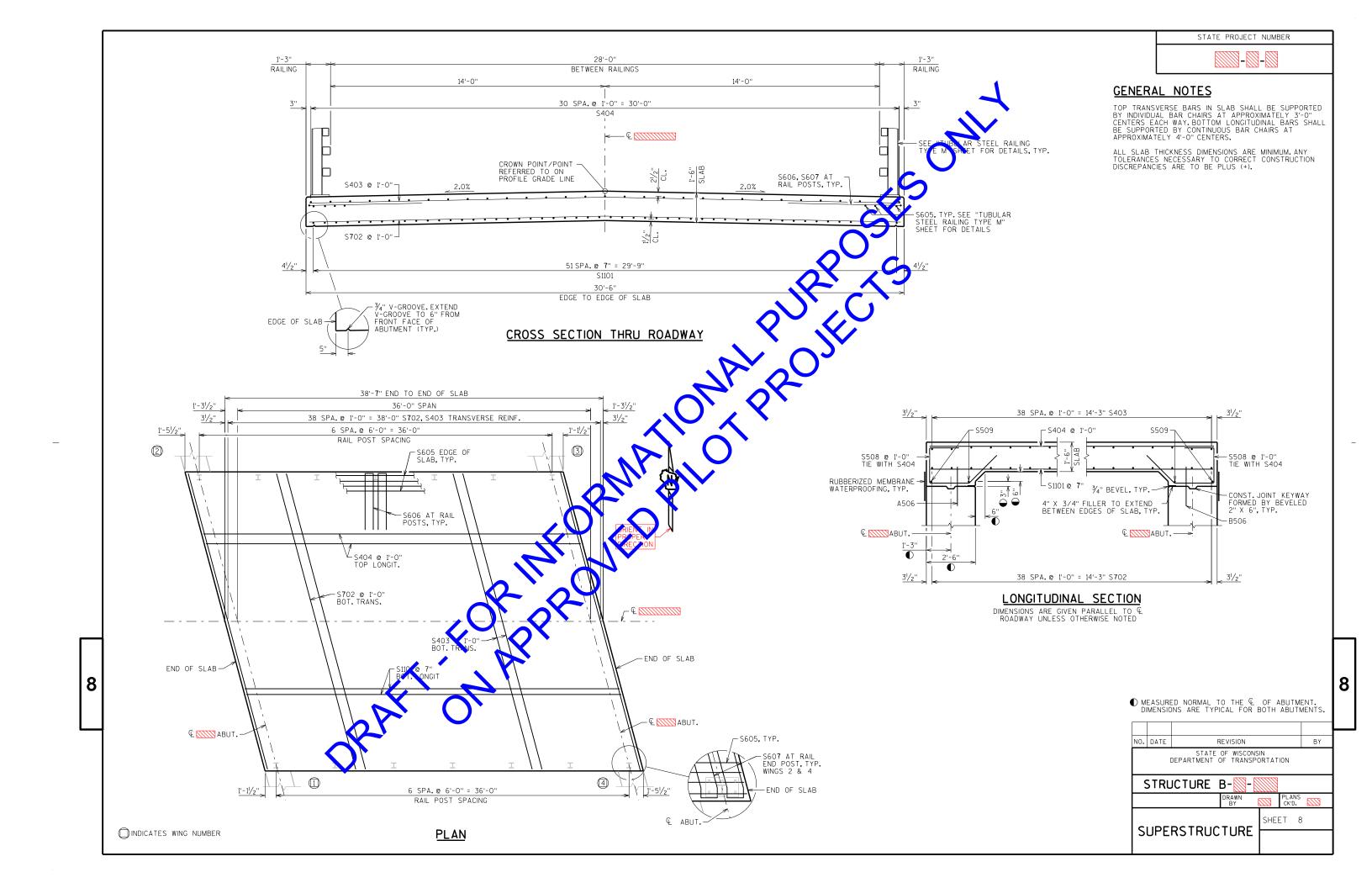
★ FOR BOTTOM OF ABUTMENT:



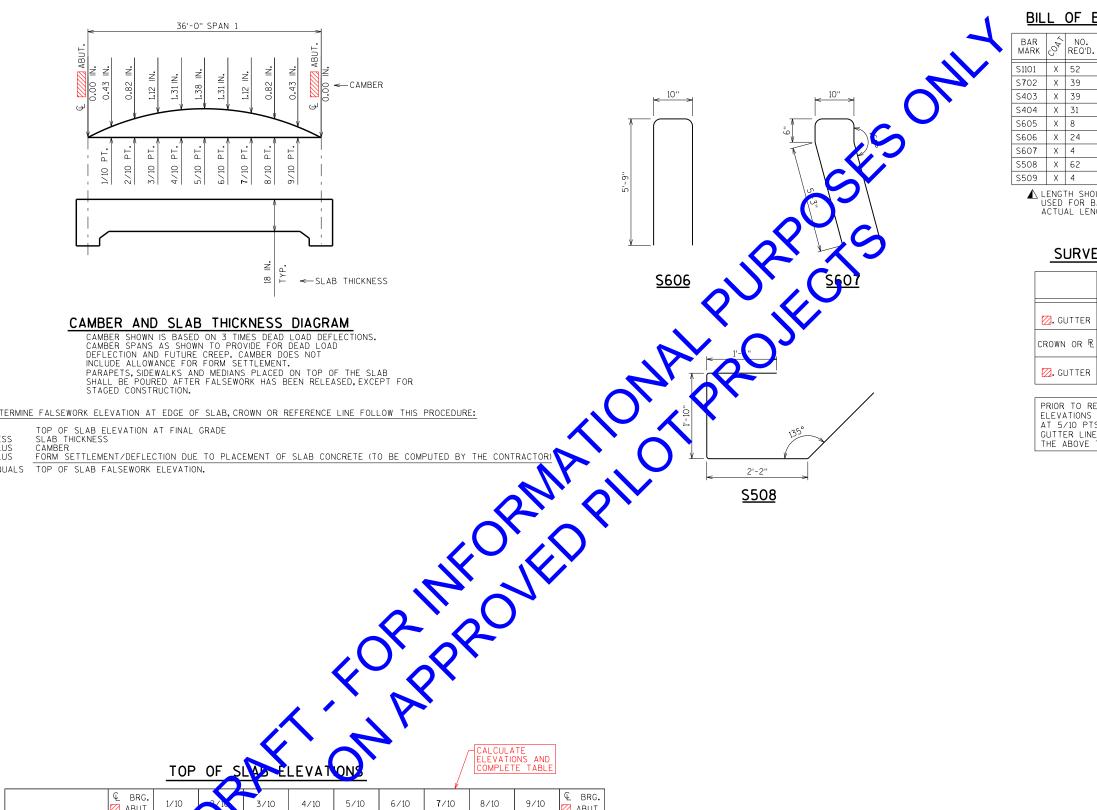








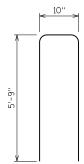




TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB, CROWN OR REFERENCE LINE FOLLOW THIS PROCEDURE:

PLUS PLUS

EQUALS TOP OF SLAB FALSEWORK ELEVATION.







BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	CODY	NO. REQ'D.	LENGTH	SEN SEN	BAR SERIES	LOCATION				
S1101	Х	52	38'-2"			SLAB BOTTOM LONGITUDINAL				
S 7 02	Х	39	31'-2"			SLAB BOTTOM TRANSVERSE				
S403	Х	39	31'-2"			SLAB TOP TRANSVERSE				
S404	Х	31	38'-2"			SLAB TOP LONGITUDINAL				
S605	Х	8	38'-2"			SLAB TOP LONGITUDINAL UNDER RAILINGS				
S606	Х	24	12'-0"	Х		SLAB TOP @ RAIL POST				
S607	Х	4	12'-0"	Х		SLAB TOP @ WING 2 & 4 RAIL END POSTS				
S508	Х	62	7 '-2"	Х		STIRRUPS @ ABUTMENT				
S509	Х	4	31'-2"			ABUTMENT DIAPHRAGM LONGITUDINAL				

LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

SURVEY TOP OF SLAB ELEVATIONS

	ABUTMENT	5/10 PT.	ABUTMENT
☑. GUTTER			
CROWN OR R			
☑. GUTTER			

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF DECK ELEVATIONS AT THE Q OF ABUTMENTS, THE Q OF PIERS AND AT 5/10 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG GUTTER LINES AND CROWN OR Q. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.

	€ BRG. BRG.	1/10	~	3/10	4/10	5/10	6/10	7/10	8/10	9/10	€ BRG. BRG.
∠ EDGE OF DECK											
CROWN OR R											
∠ EDGE OF DECK											

NO. DATE BY REVISION. STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-PLANS CK'D. SHEET 9 **SUPERSTRUCTURE**

DETAILS

8

