Utilities should be

shown on structure

and roadway plans.

Is this going to be

shown on final plans?

SECTION B-B

RODENT SHEILD

THE RODENT SHIELD SHALL BE A PVC GRATE SIMLAR 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 LINDERDRAIN.

AT ABUTMENT

- APPROACH SLAB

LIMITS OF ABUTMENT SLOPE REPAIR, SEE SHEET \_\_

WING

AT WING

FRONT

SLOPI

FACE

LIMITS OF BASE

AGGREGATE DENSE 11/41

THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH

STAINLESS STEEL SHEET METAL SCREWS.

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

\*\*NOTE: DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT

SHIELD SO SLOTS ARE VERTICAL.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS AND INSPECTION REPORTS. EXISTING BRIDGE PLANS AVAILABLE AT WISDOT.

MATCH EXISTING DIMENSIONS AND ELEVATIONS EXCEPT AS OTHERWISE SHOWN OR NOTED.

ALL DIMENSIONS ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.

CONTRACTOR TO DETERMINE EXACT EXISTING UTILITY LOCATIONS. ALL UTILITIES TO

ANY EXCAVATION REQUIRED TO COMPLETE THE OVERLAY OR PAVING NOTCH AT THE ABUTMENTS, TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY DECKS". EXCAVATION FOR THE SE WINGWALL REPAIRS & CONCRETE APPROACH SLAB IS CONSIDERED

CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

THE BID ITEM "CLEANING DECKS". CONTRACTOR TO VERIFY COMPLETENESS OF REMOVALS WITH

PLANS.

PREPARATION DECKS TYPE 1, PREPARAION DECKS TYPE 2, AND FULL-DEPTH DECK REPAIR AREAS ARE BASED ON THE PLANS AND AS DETERMINED, LOCATED, MARKED AND MEASURED BY THE FIELD ENGINEER DECK PREPARATION AND FULL-DEPTH DECK PREPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY OVERLAY DECKS".

GROUND PENETRATING RADAR FOR INFORMATION ONLY.

BOTTOM OF THE EXISTING DECK SHOULD BE INSPECTED FOR AREAS OF FULL-DEPTH DECK REPAIR

OF THE DECK PREPARTION AND PRIOR TO OVERLAYING THE BRIDGE.

ALL CONCRETE REMOVAL NOT COVERED WITH A CONCRETE OVERLAY SHALL BE DEFINED BY A 1-INCH DEEP SAW CUT.

UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE SHOWN AND EXTEND 24 BAR DIAMETERS INTO NEW WORK, UNLESS SPECIFIED OTHERWISE.

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

THE FIRST DIGIT OF A THREE DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

PROFILE GRADE LINE SHALL BE DETERMINED IN THE FIELD BASED ON A MINIMUM OVERLAY THICKNESS OF 1/2" PLACED ABOVE THE DECK SURFACE AFTER SURFACE PREPARATION. EXPECTED AVERAGE OVERLAY THICKNESS IS 2" (OR AS GIVEN ON THE PLANS). IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN  $\frac{1}{2}$ ", CONTACT THE STRUCTURES DESIGN SECTION.

EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS AND HARDWARE SHALL BE PAID FOR IN THE LUMP SUM PRICE BID AS "EXPANSION DEVICE B-12-35"

APPLY A PROTECTIVE SURFACE TREATMENT TO TOP OF BRIDGE DECK, TOP OF APPROACH SLABS AND TOP OF APPROACH SLAB NOTCH. APPLY PIGMENTED SURFACE SEALER TO TOP AND INSIDE FACES OF PARAPET PER THE STANDARD SPECIFICATIONS.

M153 TYPE 1, 2, OR 3 OR AASHTO DESIGNATION M213,

SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF  $\frac{1}{2}$ " FILLER WITH NON-STAINING NON-ASPHALTIC JOINT SEALER (1" DEEP & HOLD  $\frac{1}{8}$ " BELOW SURFACE OF CONCRETE).

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

THERE IS NO STRIP SEAL OR COVER PLATED EXPANSION JOINT.

GENERAL NOTES

SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION' SECTION 501.

DRAWINGS SHALL NOT BE SCALED.

REMAIN IN SERVICE. COORDINATE WITH THE UTILITY COMPANIES.

"EXCAVATION FOR STRUCTURES BRIDGES B-12-35".

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-12-35" SHALL BE THE EXISTING GROUNDLINE.

AT THE BACKFACE OF ABUTMENTS ALL VOLUME WHICH CANNOT BE PLACED BEFORE WINGWALL

THE QUANTITY FOR BACKFILL STRUCTURE TYPE A, BID ITEM 210.1500 IS CALCULATED BASED ON THE APPLICABLE FIGURES 12.6 1 AND 12.6 2 IN THE WISCONSIN DEPARTMENT OF TRANSPORTATION

A MINIMUM OF 1-INCH OF CONCRETE SHALL BE REMOVED FROM THE ENTIRE BRIDGE DECK UNDER

LONGITUDINAL CONSTRUCTION JOINT IN OVERLAY MAY BE USED. 1/2" DEEP SAWCUT FILL WITH JOINT SEALER, LOCATION TO BE DETERMINED BY THE FIELD ENGINEER, COORDINATE WITH STAGING

MULTIPLE POURS AND SEQUENCE OF POURS MUST BE APPROVED BY THE STRUCTURES DESIGN

PRIOR TO DECK PREPARATION OPERATIONS.

BOTTOM OF THE EXISTING DECK IS TO BE INSPECTED FOR AREAS OF DISTRESS AFTER COMPLETION

CLEAN AND FILL EXISTING LONGITUDINAL AND TRANSVERSE CRACKS WITH PENETRATING EPOXY AS DIRECTED BY THE FIELD ENGINEER. COST IS INCIDENTAL TO BID ITEM "CONCRETE MASONRY OVERLAY DECKS".

JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF AASHTO DESIGNATION

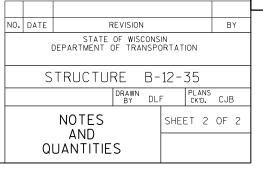
AT THE EAST END OF BRIDGE DECK, THE DECK JOINT IS COMPRISED OF A FILLER AND SEALANT,

TOTAL ESTIMATED QUANTITIES - B-12-35

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
203.0200	REMOVING OLD STRUCTURE (STATION) FIII IN	LS	
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-12-35	LS	
210.1500	BACKFILL STRUCTURE TYPE A	TON	
305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	
415.0410	CONCRETE PAVEMENT APPROACH SLAB	SY	
502.0100	CONCRETE MASONRY BRIDGES	CY	
502.3100	EXPANSION DEVICE B-12-35	LS	
502.3200	PROTECTIVE SURFACE TREATMENT	SY	
502.3210	PIGMENTED SURFACE SEALER	SY	
502.4206	ADHESIVE ANCHORS NO.6 BAR	EΑ	
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	
509.0301	PREPARATION DECKS TYPE 1	SY	
509.0302	PREPARATION DECKS TYPE 2	SY	
509.0500	CLEANING DECKS	SY	
509.1000	JOINT REPAIR	SY	
509.1500	CONCRETE SURFACE REPAIR	SF	
509.2000	FULL-DEPTH DECK REPAIR	SY	
509.2500	CONCRETE MASONRY OVERLAY DECKS	CY	
509.9050.S	CLEANING PARAPETS	LF	
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EΑ	
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	
690.0250	SAWING CONCRETE	LF	
SPV.0060.XXX	CLEANING AND PAINTING BEARINGS	EΑ	
SPV.0035.XXX	SCOUR REPAIR, GROUT	CY	
SPV.0035.XXX	SCOUR REPAIR, GROUT BAGS	CY	
SPV.0035.XXX	SCOUR REPAIR, GROUT MATS	CY	
SPV.XXXX.XXX	ABUTMENT SLOPE REPAIR	LS	
	NON-BID ITEMS		
	FILLER	SIZE	1/2" & 3/

## QUANTITIES NOTES

- (1) PERTAINS TO WINGWALL 3 REPAIR UPPER PORTION ONLY AS SHOWN IN PLAN.
- (2) CONCRETE FOR WINGWALL REPAIR PORTION.
- 3 CONCRETE FOR PREPARATION DECKS TYPE 1 & 2, FULL-DEPTH DECK REPAIR, SURFACE REPAIR, JOINT REPAIR AND PARAPET.
- (4) A FACTOR OF 2.0 WAS USED TO CONVERT CU YDS TO TONS.
- (5) PER SDD 13 B 2-8A. INCLUDES THE CONCRETE AND REINORCEMENT.
- (6) BASED ON 1" DEEP BY LIMITS OF OVERLAY.
- (7) BID ITEM IS FOR WEST ABUTMENT EXPANSION BEARINGS. SEE SPECIFICATIONS.
- (8) GROUT TO FILL VOIDS UNDER FOOTING/SEAL.
- (9) GROUT THAT MAKES UP THE GROUT BAG. TYPICAL GROUT BAG IS 3'WIDE X 4'LONG X 1'-O" MAX THICKNESS.
- (10) GROUT THAT MAKES UP THE GROUT MAT. TYPICAL GROUT MAT IS 8-INCHES THICK.
- (11) INCLUDES RODENT SHIELD FOR PIPE UNDERDRAIN PER SDD 8F6-4.



STATE PROJECT NUMBER

5180-04-83

LIMITS OF BASE

LIMITS OF STRUCTURE

GEOTEXTILE TYPE DF

SCHEDULE A" LIMITS.

BOTTOM OF BACKFILL

FXTEND 2'-0" ABOVE

BACKFILL TYPE A:

(AROLIND WING)

AGGREGATE

DENSE 11/4"

BA<u>CKFILL STRUCTURE AND</u> BASE AGGREGATE DENSE LIMITS A FACTOR OF 2.0 WAS USED TO CONVERT CU YDS TO TONS

APPROACH SLAB-

\*\* 6" NOMINAL

3⁄8" MAX

ABUT-

₩ PIPE UNDERDRAIN WRAPPED (6-INCH) SLOPE 0.5% MIN TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT

3'-0"

REQ'D