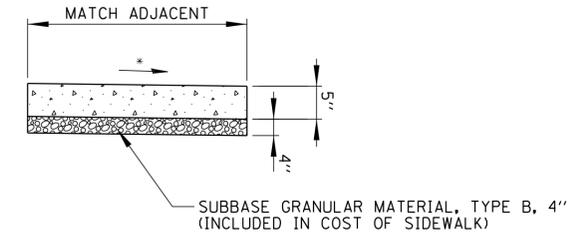


EXISTING TYPICAL SECTION

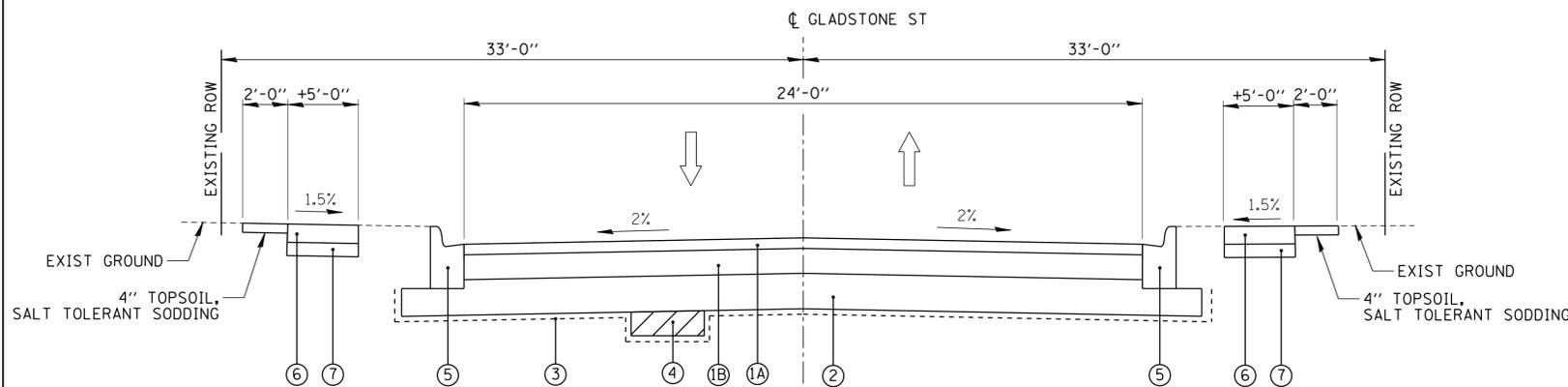
GLADSTONE AVENUE
 STA. 11+63.80 TO 12+84.80
 BRIDGE OMISSION: 12+04.02 TO 12+44.45
 SCALE: N.T.S.

NOTE:
 SEE STRUCTURAL PLAN SHEETS FOR TYPICAL
 APPROACH SLAB AND BRIDGE SECTIONS



P.C.C. SIDEWALK 5 INCH, SPECIAL
 NOT TO SCALE

NOTE:
 ALL REQUIRED EARTH EXCAVATION TO CONSTRUCT P.C.C. SIDEWALK
 SHALL BE INCLUDED IN THE COST OF P.C.C. SIDEWALK 5 INCH, SPECIAL.



PROPOSED TYPICAL SECTION

GLADSTONE AVENUE
 STA. 11+63.80 TO 12+84.80
 BRIDGE & APPROACH OMISSION: 11+84.02 TO 12+64.04
 SCALE: N.T.S.

NOTE:
 SEE STRUCTURAL PLAN SHEETS FOR TYPICAL
 APPROACH SLAB AND BRIDGE SECTIONS

NOTE:

1. THE EXISTING PAVEMENT SECTION CONSISTS OF VARIABLE DEPTH HMA.
2. CONTRACTOR SHALL REMOVE AND REPLACE ANY UNSUITABLE MATERIAL UNDER SIDEWALK, CURB AND GUTTER REPLACEMENT AND PATCHING LOCATIONS AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE COST OF PCC SIDEWALK 5", SPECIAL OR CURB AND GUTTER (SPECIAL)
3. AGGREGATE BASE REPAIR (SUBBASE GRANULAR MATERIAL, TYPE B) UNDER SIDEWALKS, CURB AND GUTTER, AND PAVEMENT PATCHES WILL BE DETERMINED BY THE ENGINEER IN THE FIELD. COST SHALL BE INCLUDED IN AGGREGATE BASE REPAIR
4. ADDITIONAL STONE BACK FILLING SHALL BE INCLUDED IN THE COST FOR CURB AND GUTTER (SPECIAL).

HOT - MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VIOLS (%) @ Ndes	QMP
PAVEMENT CONNECTOR:		
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	4% @ 70 GYR	LR 1030-2
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	4% @ 70 GYR	LR 1030-2
BUTT JOINT:		
HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	4% @ 70 GYR	LR 1030-2
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA) PER LR 1030-2		

NOTES:

1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE QUANTITIES IS 112 LB/SQ TD/IN.
2. THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATION.

EXISTING LEGEND

- (A) PAVEMENT REMOVAL
- (B) EARTH EXCAVATION
- (C) COMBINATION CURB AND GUTTER REMOVAL
- (D) SIDEWALK REMOVAL
- (E) REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (SHALL BE DETERMINED BY ENGINEER IN THE FIELD)

PROPOSED LEGEND

- (1) PAVEMENT CONNECTOR:
 - (1A) 2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70
 - (1B) VARIABLE DEPTH HMA BINDER COURSE, IL-19.0, N70
- (2) AGGREGATE SUBGRADE IMPROVEMENT 12"
- (3) GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- (4) AGGREGATE SUBGRADE IMPROVEMENT (SHALL BE DETERMINED BY ENGINEER IN THE FIELD)
- (5) CONCRETE CURB AND GUTTER (SPECIAL)
- (6) PCC SIDEWALK 5", SPECIAL
- (7) AGGREGATE BASE COURSE, TYPE B 4" (INCLUDED IN THE COST OF PCC SIDEWALK 5", SPECIAL)

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CB CHRISTOPHER B. BURKE ENGINEERING, LTD.
 9075 W. Higgins Road, Suite 600
 Rosemont, Illinois 60018
 (847) 823-0500

USER NAME = docconnell	DESIGNED - DOC	REVISED - 02/25/2022
PLOT SCALE = 5'	DRAWN - DOC	REVISOR -
PLOT DATE = 01/06/2022	CHECKED - JLP	REVISOR -
	DATE - 12/29/2022	REVISOR -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3021	15-00083-00-BR	COOK	36	7
				CONTRACT NO. 61H62
				ILLINOIS FED. AID PROJECT

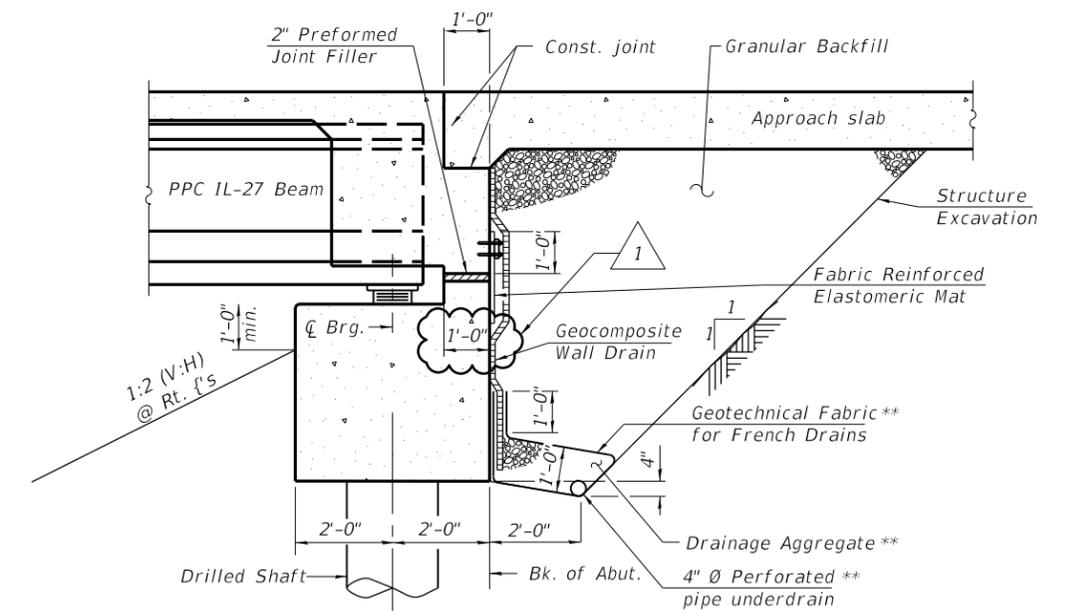
GENERAL NOTES

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be 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.
4. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work; however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
5. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
6. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
7. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
8. The Contractor shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water except cofferdams. This shall include the placement of material for run-arounds, causeways, etc. Any permit application by the Contractor shall refer to the IDNR 3704 Floodway Construction permit number allowing permanent construction as shown in the contract plans.
9. Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
10. All (embedded and separate) bearing plates, side retainers, anchor bolts, nuts, washers and pintles shall be galvanized according to AASHTO M111 or M232 as applicable.
11. H.S. bolts in bearing assembly shall be galvanized according to AASHTO M298 Cass 50.

TOTAL BILL OF MATERIAL

PAY ITEM	ITEM	UNIT	QUANTITY
50100100	Removal of Existing Structure	Each	1
50200100	Structure Excavation	Cu. Yd.	295
50300225	Concrete Structures	Cu. Yd.	72.5
50300255	Concrete Superstructure	Cu. Yd.	140.9
50300260	Bridge Deck Grooving	Sq. Yd.	285
* 50300285	Form Liner Textured Surface	Sq. Ft.	595
50300300	Protective Coat	Sq. Yd.	470
50301350	Concrete Superstructure (Approach Slab)	Cu. Yd.	55.4
50401305	Furnishing and Erecting Precast Prestressed Concrete Beams, IL27N	Foot	351
50800205	Reinforcement Bars, Epoxy Coated	Pound	60,110
50900105	Aluminum Railing, Type L	Foot	106
51500100	Name Plate	Each	1
51603000	Drilled Shaft in Soil	Cu. Yd.	17.8
51604000	Drilled Shaft in Rock	Cu. Yd.	7.9
52100010	Elastomeric Bearing Assembly, Type I	Each	12
52100520	Anchor Bolts, 1"	Each	24
58600101	Granular Backfill for Structures	Cu. Yd.	190
59100100	Geocomposite Wall Drain	Sq. Yd.	60
* 60146304	Pipe Underdrain for Structures, 4"	Foot	140

* See Special Provisions



SECTION THRU ABUTMENT

** Included in the Cost of Pipe Underdrain for Structures (See Special Provisions)

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CHRISTOPHER B. BURKE ENGINEERING, LTD.
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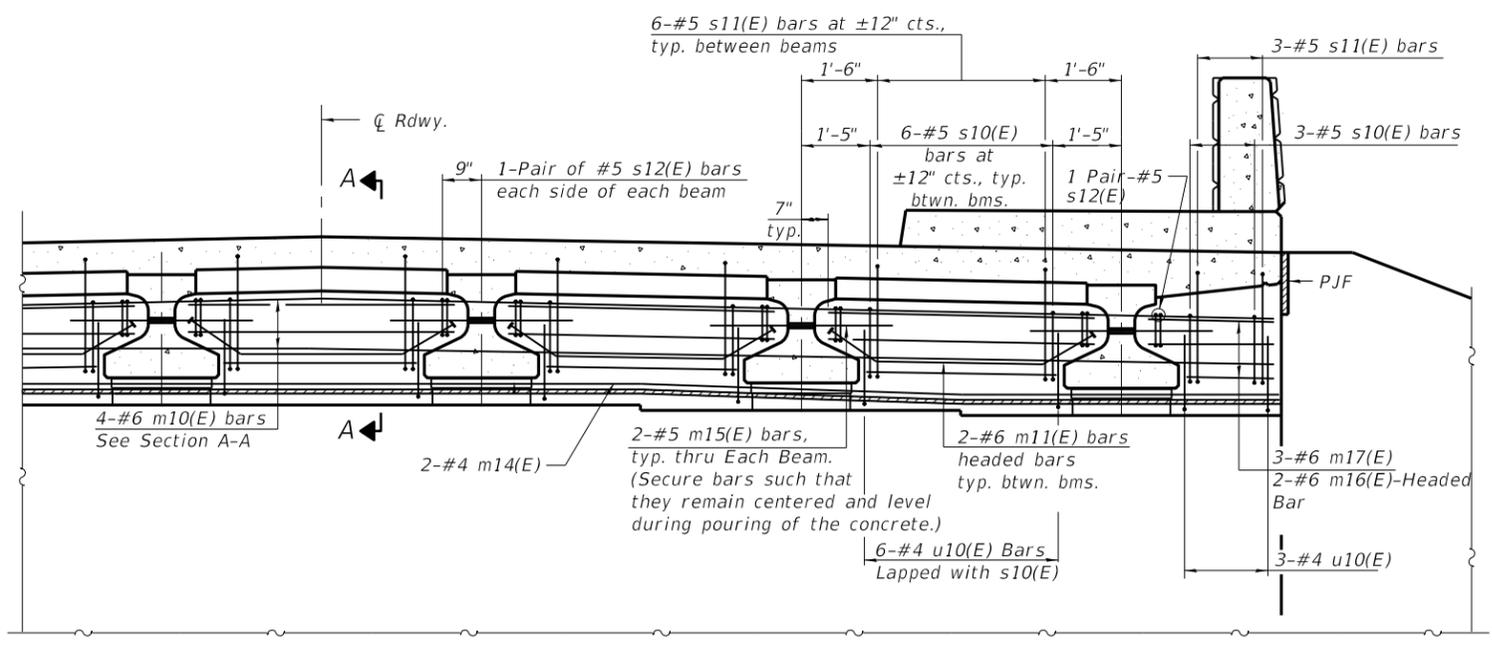
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		CHECKED	,	REVISED	,
PLOT SCALE	-	DRAWN	,	REVISED	,
PLOT DATE	-	CHECKED	,	REVISED	,

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

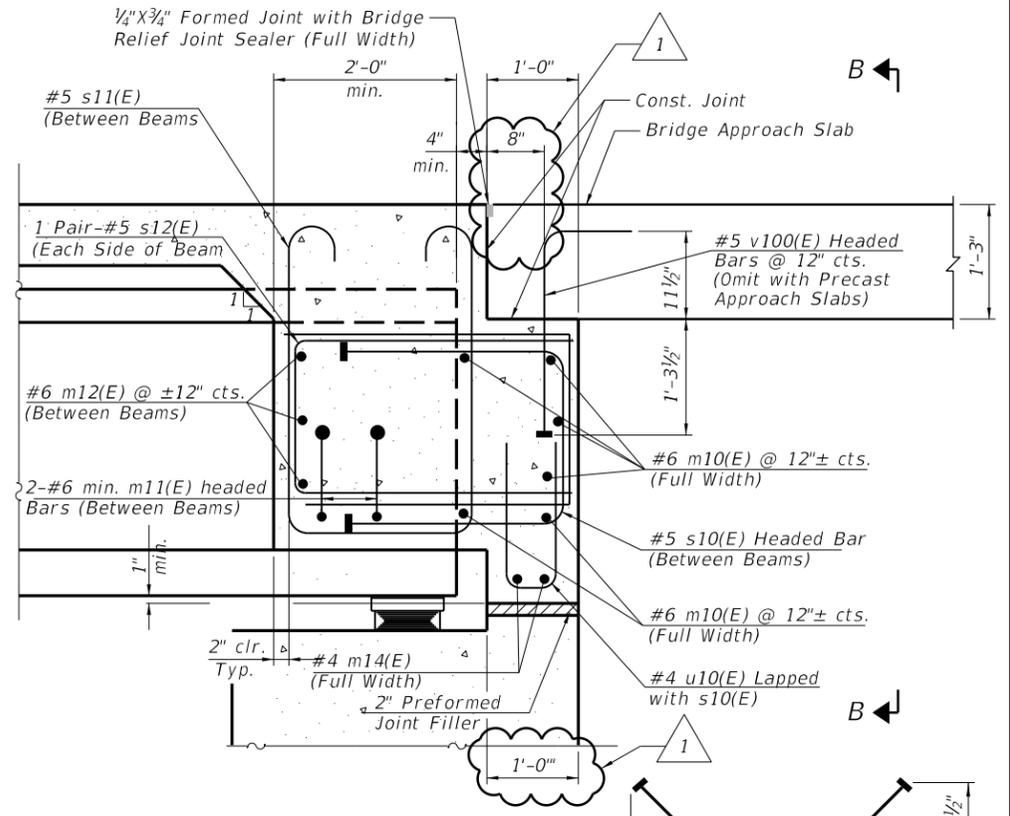
**GENERAL NOTES AND DETAILS
STRUCTURE NO. 016-8166**

SHEET 2 OF 16 SHEETS

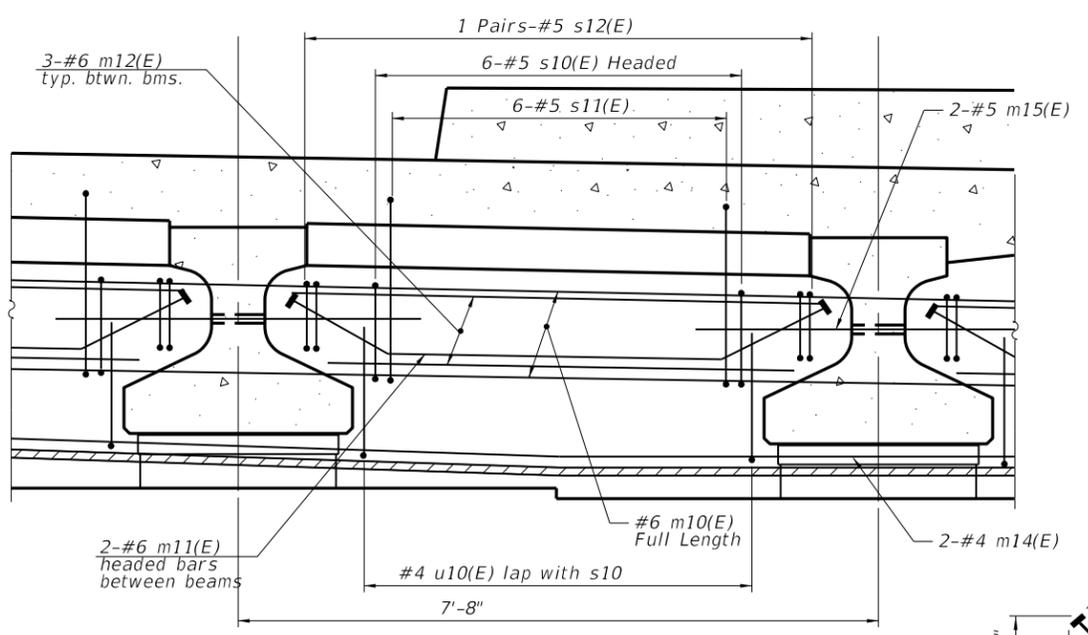
MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3021	15-00083-00-BR	COOK	36	17
CONTRACT NO. 61H62				
ILLINOIS FED. AID PROJECT				



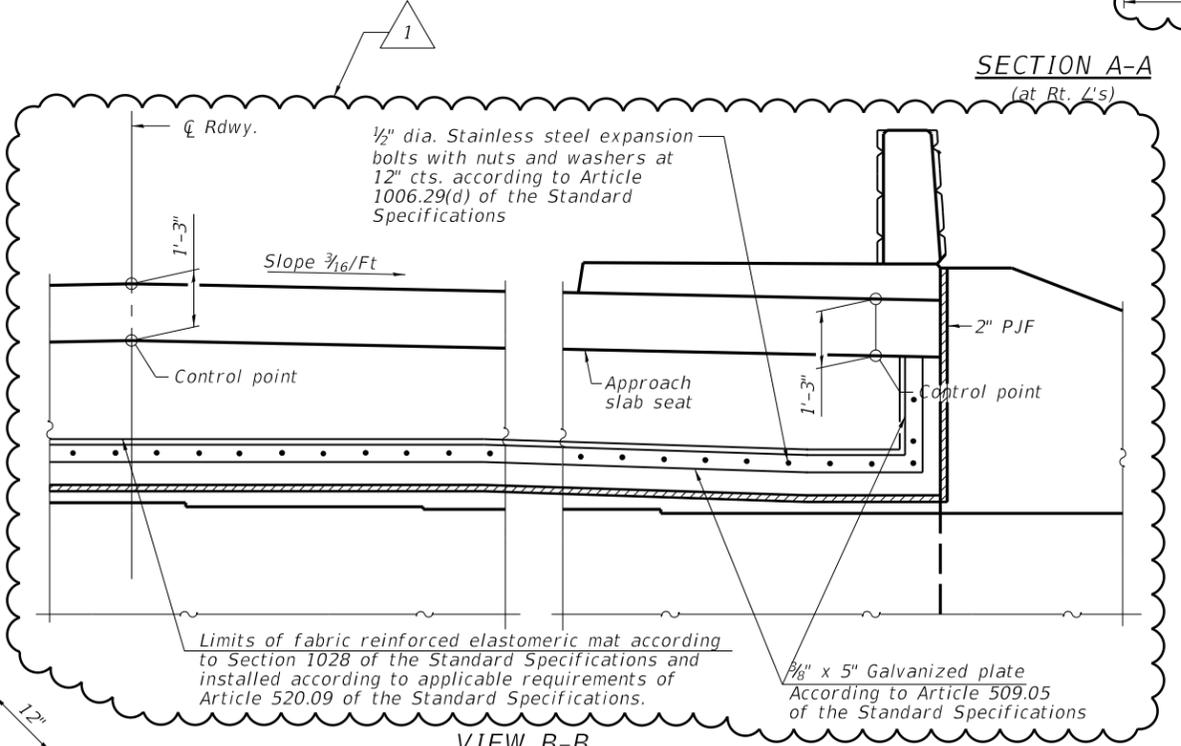
DIAPHRAGM AT ABUTMENT



SECTION A-A (at Rt. L's)

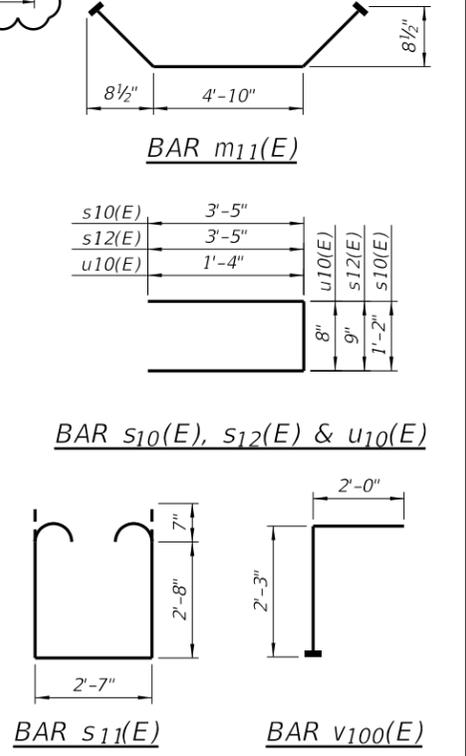


ENLARGED VIEW (FOR CLARITY)



VIEW B-B

Note:
Cost of fabric reinforced elastomeric mat, galvanized plate, stainless steel expansion bolts with nuts and washers and installation are included in the cost of Concrete Superstructures.



Notes:
See sheet 7 of 17 for superstructure details and Bill of Material.
The approach slab seat shall have a constant slope determined from the control points shown.
Cost of cellular polystyrene is included with Concrete Superstructure.
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bar conformed to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.

HWESTCHESTER\2023\04\2023\26\00055\Struct\08_120326\00055_DIAPHRAGM.sht

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9575 W. Higgins Road, Suite 600
Rosemont, Illinois 60018
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USER NAME	DESIGNED	REVISED
CHECKED	DRAWN	REVISED
PLOT SCALE	CHECKED	REVISED
PLOT DATE		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DIAPHRAGM DETAILS
STRUCTURE NO. 016-8166

SHEET 8 OF 16 SHEETS

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3021	15-00083-00-BR	COOK	36	23
CONTRACT NO. 61H62				

ILLINOIS FED. AID PROJECT