THIS DETAIL IS INCLUDED FOR INFORMATION ONLY ≠6 x 6° Tie boxs for povement with bor reinforcement 9 - #6 x 6' Tie bars for pavement with fabric reinforce Existing P.C.Concrete Pavement MATERIALS REQUIRED FOR (1) ONE or proposed Bridge Approach Povemen WIDE FLANGE BEAM The bars shall be spaced at a reasonably uniform Continuously Reinforced Fortland Coment Concrete E Pavement Wide Flange Beam Terminal Join spacing across the 12 foot width and shall be TERMINAL JOINT COMPLETE Bar No. Size Length Shape a 24 #4 19'-0" 29 # 5 23 8" 48 # 6 8'-6" *5 Tre bors spaced at 2.6" centers 12 Dowels of 12 "cts # 21'-O' PCC. Payt, or Class X Concrete , Cu.Yds Reinforcement Bors, Lbs. Structural Steel , Lbs. 2030 NOTE: * Weight includes beam, and plates, stiffener plates -6'0' Concrete The dowel bars shall be and studs. omitted in this expansion join when placed adjacent to exist Povement, Sq. Yds. ing pavement. Pavl. Reinforcement, Sq. Yds. 4" Stabilized Sub-base, Sq.Yds. Simbilized 76.5 30'- 6 -7-#4 Transverse bars 23'6" long at 18" centers. For detail of Povement Reinforcement see Standard 2225 5" Expansion Join (3ee Std.2323) 9-6" long of 12, centers MATERIALS REQUIRED FOR (1) ONE PLAN OF PAVEMENT TRANSVERSE TERMINAL JOINT Lap reinforcing steel 36 when povement is extended u xiendod stael to ce blacked an with COMPLETE Header board Payament reinforcement 6'-0" bar PCC. Pav1. or Closs X Concrete, Cu Yds. 3 GL when 1 38 Reinforcement Bors, Lbs. 34 B 3 1/2 Cl., when 1 > 8 Payl. Reinforcement Sq Yds 13.3 2410 10'-0" sub-base P.C.C. Povement of Circle X Concrete pad. Slope shot (motch povement slope) unitie koseel frowel finished. TRANSVERSE TERMINAL JOINT SECTION 6-6 ∕-Slope ∛ie" per ff. sub - base - Povement Reinforcement Sawed Longitudinal Joint اجا 18" جخ (See Notes) CROSS SECTION E-E **GENERAL NOTES** 274 274 When a slip form paver is used, the Stabilized Sub-base shall be con--2-13/16 oholes bim.fig.of beam when a stip form paver is used, the Stabilized Sub-lease shall be con-structed to a width 6 inches wider than the width freen cutside to out-side of the slip form paver's tracks. When this results in a width greater than shown on the plans, such extended width will not be measured for payment, but shall be included in the unit price bid for STABILIZED SUB-BASE. Steel beam and concrete sleeper slab shall match povement slope: See Detail for cutting, and welding of beam. 2 · Siuds 3/4"UNC. Bond breaker (10 mil. polyethylene) 4-3/4"UNC. 30 . 6 Use some reinforcement size and spacing to see in continuous povement. 3"Expansion Joint (See Std. 2323) Details shown in Section G-G shall apply only at the end of the construction section. The 10-inch reinforced concrete pad, header board wood blocking and the 5-feet of extended pavement reinforcementall be included in the unit price bid for the TRANSVERSE TERMINAL 3*CI. ----✓See Plans Agriy-(Typ. Stobilized sub-base 4" OPTIONAL ADJUSTABLE CHAIR Thickness shall match adjacent slab 9'-8" Expansion joints and extra reinforcement in the pavement over concrete E2"CL 5'-0"pads, sleeper slabs and at transverse construction joints shall be included in the price bid for C.R.P.C.C. PAVEMENT (The chair may be constructed of uncopted steet. These chairs, when used, should belocated at approximate 6 centers beginning <u>Bar</u> a 3' from the end of the bearn. 1 WIDE FLANGE BEAM 6∏(-# 5b bars @ 8"ctrs. The concrete pavement on the expansion side of the wide flarge beam shall be carefully finished at both the surface expansion joint trough and at the welded side plates to facilitate unrestrained pavement expansion # 40 bors @ 12" ctrs. 7'- 10" TERMINAL JOINT -Bend too flange of beam. Bar c When the Contractor places the reinforcement using a metiod which requires the tle bars for the longitudinal joint to be placed above the longitudinal reinforcement bars, the first three longitudinal bars on either side of the joint shall be placed such that the he bars will be at the DESIGN NOTES After tobrication the entire beam assembly shall be gal-vanized in accordance with AASHTO: Mertil. Cut and remove sufficient material 1/8" + 1/32"> from web and bottom flange of beam to attain the required payement cross slope. Buff weld and grind smooth the web and #4 steel tie bars may be used when the pavament is less than 9 indires DETAIL OF CUTTING AND WELDING BEAM Concrete for the Wide Flange Beam Terminal Joint elegae slab and Fransverse Terminal Joint concrete pad shall be either Class X or Port land Cement Concrete Pavement. It shall be placed in trench to the near lines shown. Forms will not be permitted The concrete in the sleape W 14 x 82 1'-0" ર્દા/2"≢holes at l2"c~c (Begin 12" l" wide polyethylene tope 🗢 slab and concrete pad shall be cured in accordance with the methods specified for footings in Section 625 of the Standard Specifications except that membrane curing will not be permitted for the sleeper stanrom end of beam) GROOVE DETAIL Stud shear connectors 3/4"x8" bent 45° at 12" c - c . (Begin 6" from end of beam) 10 1/8" 4" 3/6 The header must be placed of least 3'-s from the end of the The groovs at the Wide Flange Beam Terminal Joint shall be sealed if accordance with the details shown. Sealant components shall be as follows or approved equats. Sealant shall be Dow Corning 888 Succon-Highway Joint Sealant. Tape shall be Polyethylene Tape No. 40. Pruner used on the metal only, shall be Dow Corning 1200. Header board may be either drilled and split or slotted for the pavement reinforcement Formed 14 x 18 groove / 1/2 ø holes (See Defoil) necrest longitudinal bar-lap of the pavement till hook to fit. Begin 3" from end of beam. minus 41/2 Tape all exposed steel inner surface . 11/2"Flexible foom exponsion joint filler conforming to Art. 715.10 of the The groove adjacent to the beam shall extend to the edge of the shoulder and shall be approximately the same width and death as the 1414" (Omi) polyethylene bond breaker on steel trowel finish DETAIL OF TRANSVERSE CONSTRUCTION JOINT ×41/2" × 121/2" at 6' c - c (this side only) (V) END PLATE 24 FT.- CONTINUOUSLY REINFORCED {t Begin 6' from end of beam } 3/16" steel plate to be welded to ends of beam 23-115% in length. Beam shall conform to Art. 710.04 of the Std. Specs. PORTLAND CEMENT CONCRETE PAVENENT DETAIL AT BEAM STANDARD 2224-15 8 OSWA WAS and the state of t DESIGNED -GMS REVISED USER NAME = berganaj SECTION COUNTY **EXISTING 24 FT.-CONTINUOUSLY REINFORCED** STATE OF ILLINOIS ::\pw_work\pwidot\berganaj\d0373050\D5 DA28-SHT-DETAILS.dan ORAWN GMS REVISED

DEPARTMENT OF TRANSPORTATION

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PLOT DATE = 3/18/2014

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PORTLAND CEMENT CONCRETE PAVEMENT

SHEET 1 OF 1 SHEETS STA

SCALE:

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CONTRACT NO. 70A28