THIS DETAIL IS INCLUDED FOR INFORMATION ONLY

BENCH MARK: TOP OF CONCRETE HEADWALL FOR SLOPE DRAIN AT N.W. QUARTER AT STRUCTURE

EXISTING STRUCTURES: TWIN BRIJGES AT STA 635+75.15, VETERANS PARKWAY OVER N.B. - F.A.I. ROUTE 74 SECTION 57-20HBR, BUILT IN 1963 AND 1964, STRUCTURE NO. 057-0061 AND 057-0062, SUPERSTRUCTURE-3 SIMPLE COMPOSITE SPANS W/R.C. SLAB ON STEEL BEANS, SUBSTRUCTURE - STANDARD PILE BENT ABUTMENTS; PIERS - MULTIPLE COLUMNS (3,4) ON PILES.

SALVAGE: METAL RAILING AND EXPANSION JOINT MATERIAL TO IDOT MAINTENANCE.

SUPERSTRUCTURE: TO BE RETROFITTED WITH NEW CONCRETE PARAPETS, DECK SCARIFICATION, 21° CONCRETE ÖVERLAY, NEW OBAINAGE SCUPPERS, REPLACE NEOPRENE EXPANSION JOINTS, REMOVE EXITYING LONGITURIAL SEPARATION JOINT, ADD NEW DIAPPHRAGMS FOR BERMS AT SEPARATION JOINT, PARTIAL AND FILL DEPTH DECK REPAIRS, CLEAN AND PAINT BRIDGES, REPOSITION BEARINGS, AND REPLACE FIVE DIAPPHRAGMS.

SUBSTRUCTURE: REP. CONC. STRUCT, EPOXY CRACK SEALING AND FORM. CONC. REP. FOR PIERS & ABUT'S. SEE SWEET #14 AND #15 OF 18 FOR DETAILS. REPAIR AND EXTEND SLOPE WALLS TO 5' BEYOND FACE OF PARAPETS AND PLACE SLOPE WALL BETWEEN STRUCTURES 0061 AND 0062, SEE SWEET #17 OF 18 FOR DETAILS.

PLAN

GENERAL NOTES

FASTENERS SHALL BE HIGH STRENGTH BOLTS. BOLTS 3/4"Ø, OPEN HOLES 15/16"Ø, UNLESS OTHERWISE NOTED.

CALCULATED WEIGHT OF STRUCTURAL STEEL= 3180 LBS. (M-183)

THE THREE COAT LEAD AND CHROMATE FREE ALKYD PAINT SYSTEM SHALL BE USED FOR SHOP AND FIELD PAINTING OF NEW STRUCTURAL STEEL AND FOR PAINTING OF EXISTING STRUCTURAL STEEL. THE COLOR OF THE FINAL FINISH COAT SHALL BE MUNSELL STANDARD 7.564/8 INTERSTATE GREEN.

ALL CONTACT SURFACES OF EXISTING STRUCTURAL STEEL TO WHICH NEW STRUCTURAL STEEL IS TO BE CONNECTED SHALL BE FREE OF PAINT OR LACQUER.

FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED TO THE BOTTOM FLANGE OF BEAMS OR GIRDERS NOR TO THE TOP FLANGE FOR A DISTANCE EQUAL TO ONE-FOURTH THE SPAN LENGTH EACH WAY FROM THE PIER SUPPORTS. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31, M-42 OR M-53 GRADE 60.

SLOPE WALLS SHALL BE REINFORCED WITH WELDED WIRE FABRIC, 6" X 6" -W4.D X w4.O, WEIGHING 58 LBS. PER 100 SQ. FT.

55874 * MCLEAN OF 18 SHEETS

* 57-7[(1) HBR-1;HBR-2] D-93-048-84 57-20[(1) HBR,HBR-1,HBR-3]

PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S ESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD 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 THE SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR MILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

EXPANSION BDLTS SHALL CONSIST OF APPROVED EXPANSION ANCHORS, PROVIDING MINIMUM CERTIFIED PROOF LOAD = 4,08D LBS., AND 3/4" β X 12" HOOKED BOLTS.

THE CONTRACTOR WILL BE REQUIRED TO MARK ON TOP OF THE CONCRETE DECK THE LOCATIONS OF THE TOP FLANGE OF ALL THE STELL BEAMS OR GIRDERS, PRIOR TO ANY REMOVAL OF THE BRIDES CONCRETE DECK. SAM CUITING DIRECTLY OVER THE TOP OF THE BEAM OR GIRDER FLANGES IS NOT PERMITTED.

THE MAXIMUM HEIGHT THAT A BEAM CAN BE RAISED FOR REPOSITIONING A BEARING IS 1/8". THE COST OF JACKING AND CRIBBING IS INCIDENTAL TO "BEARING REPOSITIONING" SEE SPECIAL PROVISIONS FOR "BEARING REPOSITIONING".

CLEAN AND PAINT ALL STRUCTURAL STEEL. ALL EXISTING STRUCTURAL STEEL SHALL BE CLEANED USING METHOD 11, WITH THE EXCEPTION OF THE FOLLOWING WHICH SHALL BE CLEANED BY METHOD 1: THE ERD 10 FEET OF EACH BEAM AT THE ABUTMENTS AND AT THE PIERS; AND THE BEARINGS. FOLLOWING THE REMOVAL OF THE CONCRETE DECK IN THE DESIGNATED AREAS, THE TOP PLANGES OF THE BEAMS AND THE EXD DIAPPRAGMS SHALL BE CLEANED USING METHOD II. THE STEEL THUS EXPOSED SHALL BE FIELD PRIMED PRIOR TO FORMING THE NEW DECK. SEE SPECIAL PROVISIONS FOR CLEANING AND PAINTING STEEL STRUCTURES. AND PRINTED SUFFICIENT OF THE UTILISES FOR HEAD OF SUFFICIENT OF SUFFICI

TOTAL BILL OF MATERIAL

	ITEM	UNIT	SUPER	SUB	TOTAL
- [FURNISHING & ERECTING STRUCTURAL STEEL	LB.	3180	-	3180
	REINFORCEMENT BARS (EPOXY COATED)	LB.	28,000	1,995	29,995
	CONCRETE REMOVAL (SPECIAL)	CU. YD.	70	-	70
ĺ	CLASS X CONCRETE, SUPERSTRUCTURE	CU.YD.	135 1	-	135 1
Į	BRIDGE DECK CONCRETE OVERLAY OPTION	SQ.YD.	1363	-	1363
-	BRIDGE DECK CONCRETE SCARIFICATION 1/4"	SQ.YD.	1363	-	1363
	BITUMINGIS CONCRETE SURFACE REMDVAL	SQ.YD.	1103	-	1103
	PROTECTIVE COAT	SQ.YD.	1,770	-	1,77C
	EXPANSION BOLTS 3/4 INCH	EACH	-	24	24
	DRAINAGE SCUPPERS	EACH	6	-	6
- [NEOPRENE EXPANSION JOINT 2"	LIN.FT.	392	-	392
	CONCRETE REMOVAL	CU.YD.	646 .	18.2	82 8
	EPOXY CRACK SEALING	LIN.FT.	-	239	239
	FORM CONC REP > 1.5	SQFT.	-	628	628
	BEARING REPOSITIONING	EACH	12	-	12
	SLOPE WALL REMOVAL	SQ.YD.	-	363	363
	SLDPE WALL, 4"	SQ. YD.	-	661	661
Ī	CLEANING AND PAINTING STEEL BRIDGE NO. 5	LUMP SUM	1	-	1
0	BRIDGE HANDRAIL REMOVAL	LIN.FT.	620	-	620
	EXPANSION DEVICE REMDVAL	_IN.FT.	372	-	372
	TEMPORARY CONCRETE BARRIER	_IN.FT.	310	-	310
	DECK SLAB REPAIR (PARTIAL DEPTH)	SQ.YD.	162	-	162
Ī	DECK SLAB REPAIR (FULL DEPTH, TYPE 1)	SQ.YD.	18	-	18
ŀ	CLEANING AND PAINTING STEEL BRIDGE NO. 6	LUMP SUM	1	-	1
	1" ANCHOR BOLTS			83	83
	รักเลย เรียงก็จังเปลี่ย	2		- 7.8	- Z
ı	CONTROLLED LOW STRENGTH MATERIAL			14	14

Existing Formed Droins To Be Removed (Typ.) # Pier *1 # Pier #2 & Brg. Abut. 2 E Brg. Abut. 1 & Roadway 10-0" (TYP.) € South Bound Rdwy (0062) and Stage Const. Joinl r58°-48'-36" 39'-9%" 48'-0" <u>√ €</u> Veterans Parkway Clangent to & 152'-5" 医子宫 医 医 r € North Bound Rdwy. (0061)
and Stage Const. Joint & Brg. Abut. 4 £ Pier #3 Brg. Abut. 3

DESIGN STRESSES (NEW CONSTRUCTION)

f'c = 3,500 p.s.i. Concrete: fy = 60,000 p.s.i. Reinforcement:

Structural Steel:

Design Loading:

fy = 36,000 p.s.i. AASHTO M-183

Existing and Proposed Structural Steel H20-St6-44 and Alternote

Design Specifications: AASHTO (1983) plus 1984 thru 1988 Interims



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

GENERAL DATA

VETERANS PARKWAY OVER W.B.-F.A.I. RT. 74 DATE SECTION 57-20 HBR



SCALE:

piqueth p. Amin 11/20/89

REVISIONS

McLEAN COUNTY STATION 635+75.15 STRUCTURE NO. 057-0061 STRUCTURE NO. 057-0062

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FILE NAME = DESIGNED REVISED USER NAME = detersbj c:\pw_work\pwidot\detersbi\d0157116\D570570-sht-details.dgr DRAWN REVISED CHECKED REVISED PLOT DATE = 8/13/2013 DATE REVISED

CHECKED

M.J.H.

R.J.S.

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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

S.N. 057-0061 & S.N. 057-0062 **EXISTING GP&E BRIDGE PLANS (1990)** SHEET NO. 1 OF 1 SHEETS STA.

SECTION COUNTY 704 57-20(HB,HB-1)BR-1 MCLEAN 440 267 CONTRACT NO. 70570