SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE: 90% FEDERAL 10% STATE ROADWAY 0003 RURAL	90% FEDERAL 10% STATE HIGHWAY LIGHTING 0021 RURAL	90% FEDERAL 10% STATE TRAFFIC SIGNALS 0021 IL 15 RAMPS	90% FEDERAL 5% STATE / 5% LOCAL TRAFFIC SIGNALS 0021 VETERANS, 44TH, 45TH	90% FEDERAL 10% STATE BRIDGE 0010 041-0121
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	578	578				
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	6,615	6,615				
44000600	SIDEWALK REMOVAL	SQ FT	2,143	2,143				
44003100	MEDIAN REMOVAL	SQ FT	5,387	5,387				
44004250	PAVED SHOULDER REMOVAL	SQ YD	20,818	20,818				
44213204	TIE BARS 3/4"	EACH	1,387	1,387				
48100100	AGGREGATE SHOULDERS, TYPE A	TON	3,284	3,284				
48300510	PORTLAND CEMENT CONCRETE SHOULDERS 10 1/2"	SQ YD	12,313	12,313				
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1					1
50104400	CONCRETE HEADWALL REMOVAL	EACH	10	10				
50105220	PIPE CULVERT REMOVAL	FOOT	896	896				
50157300	PROTECTIVE SHIELD	SQ YD	1,017					1,017 (2)
50200100	STRUCTURE EXCAVATION	CU YD	1,496					1,496
50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	39	39				

(2) REVISED 1-6-2025

MODEL: SOQ-4 [Sheet]
FILE NAME: pw://cmtengr-pw.bentley.com:cmt-connect-projects/Documents/IDOT/72006601-00/660100/Sheets/D978483-sht-soq.dgn

CMT
License No. 184-000613 ©Copyright CMT, Inc.

USER NAME = Brian Bond	DESIGNED - BMB	REVISED -	
	DRAWN - RTU	REVISED -	
PLOT SCALE = 0.16666667 ' / in.	CHECKED - SPH	REVISED -	
PLOT DATE = 11/15/2024	DATE - NOV 2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET 4 OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	13,13-2(N-1,TS-1) ; (41-3)HB2	JEFFERSON	787	9

CONTRACT NO. 78483

ILLINOIS FED. AID PROJECT

GENERAL NOTES

1. Fasteners shall be ASTM F3125 Grade A325 Type 1, mechanically galvanized bolts in painted areas. Bolts $\frac{7}{8}$" diameter, holes $\frac{15}{16}$" diameter, unless otherwise noted.

2. Calculated weight of Structural Steel:
   M270 Grade 50 = 1,415,163 lbs.
   M270 Grade 36 = 86,852 lbs.

3. No field welding is permitted except as specified in the contract documents.

4. Reinforcement bars designated (E) shall be epoxy coated.

5. 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.

6. Slipforming of the parapets is not allowed.

7. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\frac{1}{8}$" (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

8. A film forming Concrete Sealer shall be applied to the designated areas of the pier.

9. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review acceptance by the Engineer.

10. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

11. Bridge seat reinforcement shall be carefully placed as detailed in the plans to avoid interference with drilling holes for anchor bolts. The beams shall be erected in final position prior to drilling holes for and placing anchor bolts.

12. All bearing anchor bolts shall be set before permanently bolting diaphragms or cross frames over supports.

13. No construction joints except those shown on the plans will be allowed unless approved by the Engineer.

14. Prior to pouring deck the vertical clearance shall be confirmed. Upon completion of the structure, the Contractor shall measure the resulting horizontal and vertical clearances and submit them to the Engineer for review and inclusion in the As-Built plans (Record Drawings).

15. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to address the presence of lead on this project.

16. All Structural Steel shall be metallized. See Special Provision for "Metallizing of Structural Steel".

17. All (embedded and seperate) bearing plates, side retainers, anchor bolts, nuts, washers, and pintles shall be galvanized according to AASHTO M111 or M232 as applicable.

18. The exterior fascia and bottom of bottom flange areas shall be metallized and painted with System 2. The color of the final finish coats of painting of fascia areas shall be field applied and shall be Blue AMS-STD-595 15050. See Special Provision for "Metallizing of Structural Steel". The interior metallized areas shall be painted with System 1.

19. Removal of existing slope walls shall be included in the cost of Removal of Existing Structures.

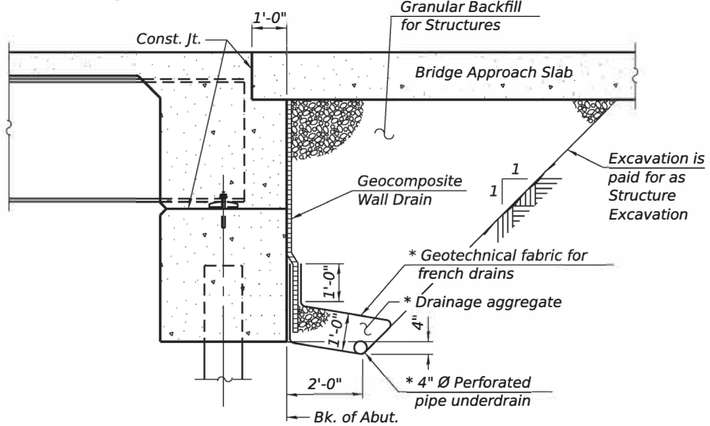
20. There is existing Protective Shield in place on the existing bridge which may, at the Contractor's option, be re-used and/or strengthened or supplemented as needed for re-use. The Contractor shall evaluate the adequacy and condition of the existing Protective Shield to satisfy the requirements of Article 501.03 of the Standard Specifications. Such evaluation shall be performed by a licensed Structural Engineer in Illinois and submitted for acceptance along with the design submittal for new Protective Shield. The cost of this evaluation shall be included in the cost for Protective Shield. The Contractor shall be responsible for the full limits of Protective Shield required. The Contractor shall be paid for this work based on the total quantity of existing and new Protective Shield required at the Contract unit price per square yard for Protective Shield. See Sheet 606 for existing Protective Shield layout.

STATION 529+60.23
BUILT ___ BY
STATE OF ILLINOIS
F.A.P. 821 - SEC. 13-2(N-1, TS-1); (41-3)HB2
LOADING HL-93
STRUCTURE NO. 041-0121

NAME PLATE

See Std. 515001

INDEX OF SHEETS

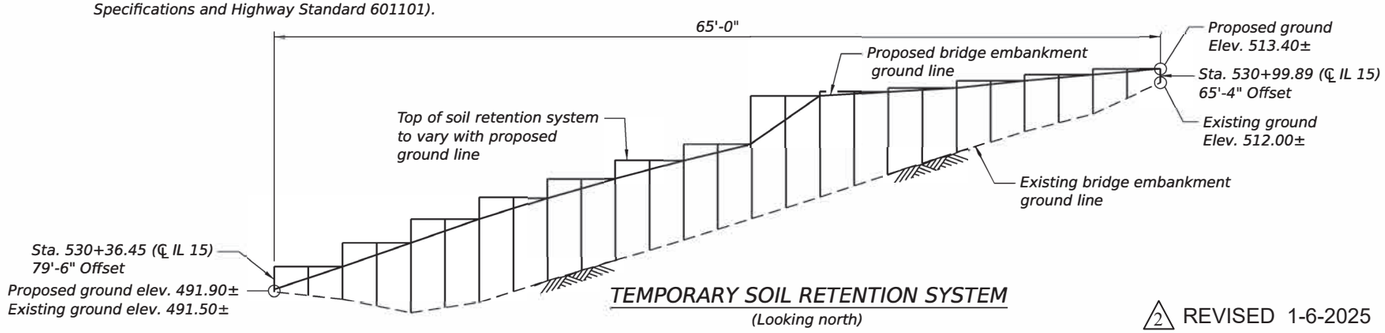


SECTION THRU INTEGRAL ABUTMENT

(Horiz. dim. at Rt. ∠'s)

*Included in the cost of Pipe Underdrains for Structures. (See Special Provisions)

Note:
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



TEMPORARY SOIL RETENTION SYSTEM

(Looking north)

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Structures	Each		1	1
Protective Shield	Sq. Yd.	1,017		1,017
Structure Excavation	Cu. Yd.		1,496	1,496
Concrete Structures	Cu. Yd.		754.1	754.1
Concrete Superstructure	Cu. Yd.	1,056.8		1,056.8
Bridge Deck Grooving	Sq. Yd.	3,250		3,250
Protective Coat	Sq. Yd.	4,421		4,421
Concrete Superstructure (Approach Slab)	Cu. Yd.	260.4		260.4
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	16,632		16,632
Reinforcement Bars, Epoxy Coated	Pound	409,200	210,230	619,430
Bar Splicers	Each	1,213	100	1,313
Parapet Railing	Foot	620		620
Slope Wall 4 Inch	Sq. Yd.		1,090	1,090
Furnishing Steel Piles HP 14X117	Foot		923	923
Driving Piles	Foot		923	923
Test Pile Steel HP 14X117	Each		2	2
Pile Shoes	Each		28	28
Name Plates	Each	1		1
Drilled Shaft in Soil	Cu. Yd.		34.5	34.5
Drilled Shaft in Rock	Cu. Yd.		115.2	115.2
Anchor Bolts, 1"	Each	112		112
Temporary Soil Retention System	Sq. Ft.		452	452
Drainage System for Structures	L. Sum	1		1
Granular Backfill for Structures	Cu. Yd.		652	652
Concrete Sealer	Sq. Ft.		4,039	4,039
Geocomposite Wall Drain	Sq. Yd.		298	298
Pipe Underdrains for Structures 4"	Foot		324	324
Crosshole Sonic Logging Access Ducts	Foot		2,147	2,147
Crosshole Sonic Logging Testing	Each		22	22
Bar Terminators	Each	680	1,515	2,195
High Load Multi-Rotational Bearings, Disc, Guided Expansion-500K	Each	14		14
Drainage Scuppers, DS-11	Each	12		12
Aesthetic Enhancements	L. Sum		1	1

2 REVISED 1-6-2025

CMT
License No. 184-000612 ©Copyright CMT, Inc.

USER NAME = Brian Bond	DESIGNED - DAC	REVISED -	
	DRAWN - DAC	REVISED -	
PLOT SCALE = N/A	CHECKED - FAS	REVISED -	
PLOT DATE = 12/10/2024	DATE - DEC 2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 041-0121

SCALE: | SHEET 2 OF 48 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
821	13-2(N-1, TS-1); (41-3)HB2	JEFFERSON	787	559
		CONTRACT NO. 78483		
		ILLINOIS	FED. AID PROJECT	