SHEET NUM. GRAND PART. ITEM SEE ITEM DESCRIPTION UNIT SHEET TOTAL EXT 97 208 160 201 282 01/NHS/14 02/NHS/11 **ROADWAY** CLEARING AND GRUBBING LS LS LS 201 LS 11000 3,825 717 3,108 3,108 717 202 23000 PAVEMENT REMOVED 1,029 1,029 267 267 202 23500 1,296 WEARING COURSE REMOVED 550 1,200 1,200 202 38000 GUARDRAIL REMOVED GUARDRAIL REMOVED. BARRIER DESIGN 232 116 202 232 116 38300 12 202 47000 12 EACH BRIDGE TERMINAL ASSEMBLY REMOVED 804 202 804 FENCE REMOVED 75000 3,651 1,519 2,132 203 10000 3,651 CY EXCAVATION 203 35 10001 CY EXCAVATION, AS PER PLAN 16,370 16,029 341 15,969 203 20000 CY **EMBANKMENT** 7,587 424 4,766 7,587 204 12,777 SUBGRADE COMPACTION 5,190 10000 318 506 824 204 13000 824 CY EXCAVATION OF SUBGRADE 318 506 824 GRANULAR MATERIAL. TYPE C 204 30020 824 204 45000 HOUR PROOF ROLLING 2,472 1,518 204 2,472 50000 SY GEOTEXTILE FABRIC 2,472 51000 2,472 1,518 204 GEOGRID SUMMARY LINEAR GRADING 3.09 1.53 1.56 3.09 209 60500 MILE 75 75 606 75 GUARDRAIL, TYPE MGS 15050 1,225 1,225 400 GUARDRAIL, TYPE MGS WITH LONG POSTS 606 15100 125 15550 GUARDRAIL, BARRIER DESIGN, TYPE MGS 125 FT 606 **EACH** 35002 MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1 ENERAL **EACH** 35102 MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2 IMPACT ATTENUATOR, TYPE 1 (BIDIRECTIONAL), 55 MPH, 24" WIDE 60012 2 EACH 667 607 667 FENCE, TYPE 47RA 15100 FT 280 280 280 FT FENCELINE SEEDING AND MULCHING 70000 MONUMENT ASSEMBLY REMOVED AND RESET 40000 GROUND ROD 32000 EACH 1 **EROSION CONTROL** 601 20010 CRUSHED AGGREGATE SLOPE PROTECTION 208 251 251 601 20011 251 CY CRUSHED AGGREGATE SLOPE PROTECTION, AS PER PLAN TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT 21060 34 34 601 34 32201 } 471 471 601 471 ROCK CHANNEL PROTECTION, TYPE C WITH FILTER, AS PER PLAN 208 TOPSOIL 559 00300 979 CY 565 6,803 11,982 18,220 00510 18,785 SY SEEDING AND MULCHING, CLASS 2 0.92 TON 2.54 20000 2.54 COMMERCIAL FERTILIZER 3.89 1.41 2.48 3.89 ACRE 31000 35000 MGAL WATER 52 19 33 52 3,173 2,505 5,678 SLOPE EROSION PROTECTION 5,678 670 00500 LS LS 832 15000 LS STORM WATER POLLUTION PREVENTION PLAN LS LS 832 15002 STORM WATER POLLUTION PREVENTION INSPECTIONS DESIGN AGENCY LS LS 15010 STORM WATER POLLUTION PREVENTION INSPECTION SOFTWARE 52,500 52,500 30000 105,000 **EROSION CONTROL** 5.9 58)(1 ESIGNER 5 BRH 7 REVIEWER **DRAINAGE** CPS 09-30-22 16 400 400 6" SHALLOW PIPE UNDERDRAINS 400 11100 ROJECT ID 00400 50 50 50 4" CONDUIT, TYPE E 611 P.92 320

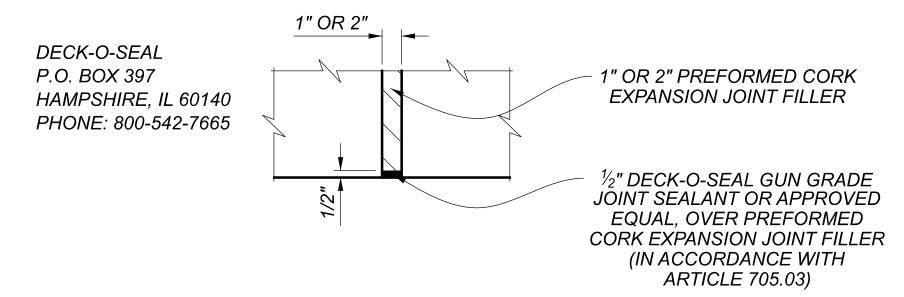
ITEM 503 - UNCLASSIFIED EXCAVATION. AS PER PLAN

THIS ITEM SHALL CONSIST OF REMOVING MATERIALS FROM BEHIND THE EXISTING BACKWALL IN ORDER TO PERFORM ITEM 202 - PORTION OF STRUCTURE REMOVED, AS PER PLAN AND TO PLACE THE LOW STRENGTH MORTAR BACKFILL (LSM) AS SHOWN IN THE PLAN. LIMITS OF THIS EXCAVATION SHALL BE LIMITED BETWEEN THE EXISTING WINGWALLS AND EXTEND TO THE END OF THE PROPOSED APPROACH SLABS AS DETAILED.

THE BACKFILL MATERIAL FOR ALL EXCAVATION BEHIND THE ABUTMENTS AND UNDER THE APPROACH SLABS SHALL BE LOW STRENGTH MORTAR BACKFILL (LSM). LSM, TYPE 1 SHALL CONFORM TO CMS SECTION 613 AND BE PLACED WITHIN THE LIMITS OF THE APPROACH SLABS AND IT MAY BE USED TO CONSTRUCT THE SLOPES IN THIS SAME AREA AS LONG AS IT IS COVERED WITH ONE FOOT OF SOIL TO MATCH EXISTING GRADE. THE AREA FOR THE POROUS BACKFILL WITH GEOTEXTLE FABRIC SHALL BE PLACED AFTER THE LSM HAS CURED AND THE FORMS HAVE BEEN REMOVED.

PAYMENT TO PERFORM ALL THE WORK OUTLINED ABOVE SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 503 - UNCLASSIFIED EXCAVATION, AS PER PLAN AND SHALL INCLUDE ALL LABOR. EQUIPMENT. MATERIALS. AND INCIDENTALS NECESSARY TO COMPLETE THE WORK UNLESS SEPARATELY ITEMIZED IN THE PLANS.

ITEM 516 - 1" OR 2" PREFORMED EXPANSION JOINT FILLER. AS PER PLAN ALL 1" P.E.J.F. AND 2" P.E.J.F. CALLED FOR IN THE PLANS SHALL BE PREFORMED CORK JOINT FILLER (IN ACCORDANCE WITH ARTICLE 705.03). RECESS JOINT FILLER $\frac{1}{2}$ " FOR ALL JOINTS (SEE DETAIL). SEAL ALL JOINTS WITH DECK-O-SEAL GUN GRADE-JOINT SEALANT OR AN APPROVED EQUAL. THE COLOR SHALL BE STONE GRAY. APPROVED MANUFACTURER'S APPLICATION METHODS SHALL BE FOLLOWED DURING SURFACE PREPARATION AND APPLICATION FOR MAXIMUM EFFECTIVENESS.



PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 516 -1" PEJF. APP. SQ. FT. AND 2" PEJF. APP. SQ. FT., AND SHALL INCLUDE ALL LABOR, EQUIPMENT. AND INCIDENTALS REQUIRE TO COMPLETE THE WORK DESCRIBED.

ITEM 516 - 2" DEEP JOINT SEALER, AS PER PLAN

A 2" DEEP X 1" WIDE STRIP SHALL BE SAWCUT OUT OF THE APPROACH ASPHALT ABUTTING THE SLEEPER SLAB AFTER THE FINAL SURFACE HAS BEEN CONSTRUCTED. JOINT SEALER AS PER 705.04 SHALL BE USED TO SEAL THE JOINT CREATED.

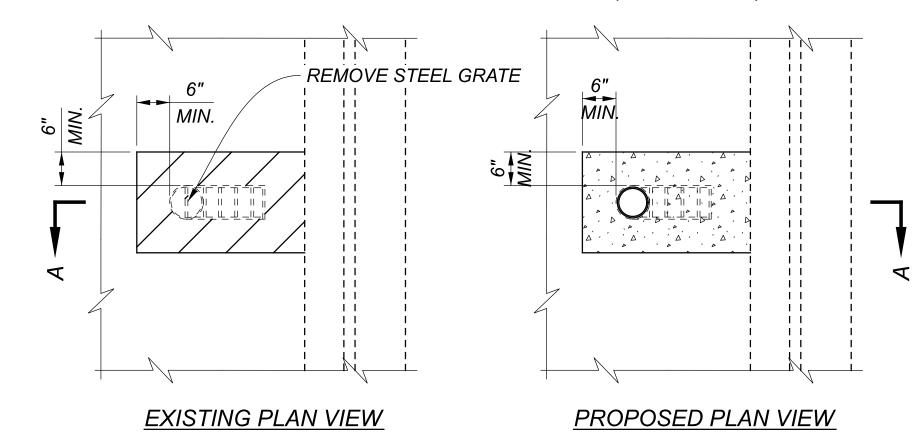
ITEM 518 - SCUPPER, MODIFICATION, AS PER PLAN

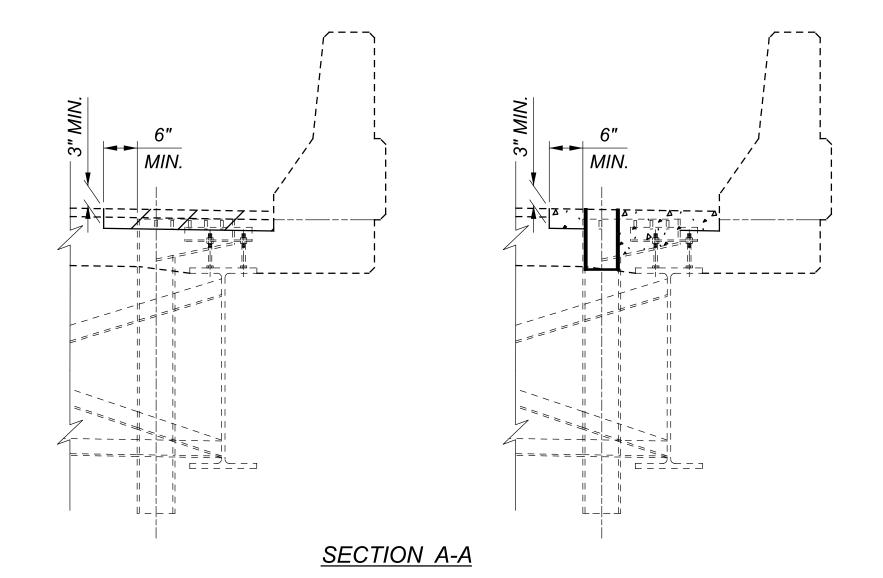
THE EXISTING SCUPPERS ARE 6" DIAMETER STEEL PIPES THAT ARE COUNTERSUNK TO THE EXISTING BRIDGE DECK. THE CONTRACTOR SHALL REMOVE THE STEEL GRATES AND INSERT A 6' DIAMETER PVC PIPE INTO THE EXISTING SCUPPER. A 1 INCH NOTCH WILL HAVE TO BE CUT THE LENGTH OF THE PIPE IN ORDER FOR IT TO BE PLACED INTO THE EXISTING SCUPPER PIPE. THE LIMITS OF THE PVC PIPE SHALL EXTEND TO THE TOP OF THE DECK AND INSERTED A MINIMUM OF 9" INTO THE EXISTING SCUPPER.

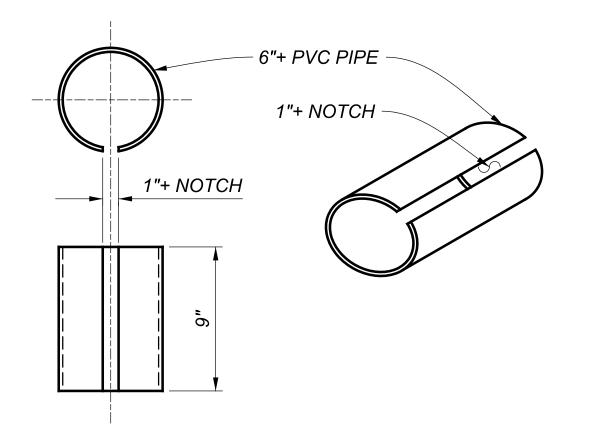
THE CONCRETE AROUND THE SCUPPER WILL NEED TO BE REMOVED TO A MINIMUM DEPTH OF 3" AND AN MINIMUM OF 6" ON THREE SIDES AND TO THE FACE OF THE PARAPET ON THE FOURTH. CONCRETE PLACEMENT CAN BE ANY RAPID REPAIR BAG MIX THAT IS APPROVED ON THE QPL LIST.

PAYMENT SHALL INCLUDE ALL LABOR AND MATERIALS NECESSARY TO INSTALL THE SCUPPER MODIFICATION, INCLUDING CONCRETE REMOVAL, ANY STEEL REMOVAL, CONCRETE AND PVC PIPE.

ITEM 518 - SCUPPER, MODIFICATION, AS PER PLAN (CONTINUED)







SFN: 4500695 (LEFT)

SFN: 4500725 (RIGHT)

ITEM 519 - PATCHING CONCRETE STRUCTURE. AS PER PLAN REMOVE ALL LOOSE AND DISINTEGRATED CONCRETE FROM THE AREAS SHOWN ON THE PIER WALLS DETAILED ON SHEETS 38/74 AND 39/74 AND PATCH AS PER C&MS 519. THESE AREAS DESIGNATED FOR PATCHING ARE SHOWN FOR ESTIMATION PURPOSES. THESE AREAS, AS WELL AS THE REMAINING PORTIONS OF EXISTING SUBSTRUCTURE, ARE TO BE VERIFIED BY THE ENGINEER. IF ADDITIONAL AREAS NEEDING PATCHING ARE DISCOVERED. THIS ITEM OF WORK MAY BE EXTENDED INTO THOSE AREAS. THE FINAL QUANTITY IS TO BE AS DIRECTED BY THE FIELD ENGINEER. THE DEPARTMENT WILL PAY FOR THE WORK DESCRIBED ABOVE AND DESCRIBED IN C&MS 519 UNDER ITEM 519 - PATCHING CONCRETE STRUCTURE, AS PER PLAN (SQ. FT.).

ITEM 526 - REINFORCED CONCRETE APPROACH SLABS (T=15"), AS PER PLAN FURNISH APPROACH SLABS CONFORMING TO CMS 526. THE ACCEPTED QUANTITIES SHALL INCLUDE: CONCRETE, REINFORCING STEEL, JOINT FILLERS, JOINT SEALERS, WATERPROOFING. AND ANY OTHER INCIDENTALS SHOWN ON THE APPROACH SLAB DETAIL SHEETS UNLESS OTHERWISE NOTED IN THE PLAN. THE DEPARTMENT WILL MEASURE APPROACH SLABS BY THE NUMBER OF SQUARE YARDS.

ITEM 601 - CRUSHED AGGREGATE SLOPE PROTECTION, AS PER PLAN CRUSHED AGGREGATE SLOPE PROTECTION. AS PER PLAN SHALL BE PLACED IN THE SLOPE AREAS AS DETAILED ON SHEET 3/74. CONCRETE REMOVED FROM THE EXISTING BRIDGE DECK AND/OR APPROACH SLABS. AS WELL AS MISCELLANEOUS SLABS OF CONCRETE THAT HAVE BEEN DISCARDED BELOW THE EXISTING STRUCTURES. MAY BE PLACED ON THE SLOPES PROVIDING THAT ALL RESTEEL HAS BEEN REMOVED FROM THE CONCRETE. ALL ASPHALT CONCRETE SHALL BE REMOVED FROM THE CONCRETE PRIOR TO ITS PLACEMENT. CRUSHED AGGREGATE SLOPE PROTECTION. AS PER PLAN SHALL BE AS PER C&MS 601.06.

ITEM 601 - ROCK CHANNEL PROTECTION. TYPE C WITH FILTER. AS PER PLAN ROCK CHANNEL PROTECTION. TYPE C WITH FILTER. AS PER PLAN SHALL BE PLACED ALONG THE CREEK BANK, AROUND PIER STEMS, AND IN THE SCOURED AREAS ALONG THE CREEK EDGE AS DETAILED ON SHEET 3/74 AND IN THE AREAS DESIGNATED BY THE ENGINEER. CONCRETE REMOVED FROM THE EXISTING BRIDGE DECK AND/OR APPROACH SLABS, AS WELL AS MISCELLANEOUS SLABS OF CONCRETE THAT HAVE BEEN DISCARDED BELOW THE EXISTING STRUCTURES, MAY BE USED TO PERFORM THIS ITEM PROVIDING THAT ALL RESTEEL HAS BEEN REMOVED FROM THE CONCRETE. ALL ASPHALT CONCRETE SHALL BE REMOVED FROM THE CONCRETE PRIOR TO ITS PLACEMENT. ROCK CHANNEL PROTECTION. TYPE C WITH FILTER. AS PER PLAN SHALL BE AS PER C&MS 601.09. AN ESTIMATED AMOUNT OF 471 CU. YD. HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR BIDDING PURPOSES, BUT FINAL PAYMENT SHALL BE FOR THE ACTUAL AMOUNT USED AS DIRECTED BY THE ENGINEER.

ITEM 613 - LOW STRENGTH MORTAR BACKFILL. AS PER PLAN LOW STRENGTH MORTAR (LSM) USED AS BACKFILL BEHIND SEMI-INTEGRAL ABUTMENT DIAPHRAGMS SHALL HAVE A LONG TERM COMPRESSIVE STRENGTH BETWEEN 150 AND 200 PSI. THE TOP ELEVATION SHALL BE AT LEAST 6" BELOW THE PROPOSED BOTTOM OF APPROACH SLAB. ANY FORMWORK BETWEEN THE LSM BACKFILL AND SEMI-INTEGRAL DIAPHRAGM SHALL BE COMPLETELY REMOVED.

THE QUANTITY IN THE PLANS ASSUMES A 1.5:1 SLOPE OF THE BOTTOM OF LSM ELEVATION UP TO 2' BELOW THE PROPOSED TOP OF LSM ELEVATION (WHERE A VERTICAL END OF THE ITEM 613 IS ASSUMED). ADDITIONAL LSM BEYOND THESE LIMITS IS INCLUDED WITH ITEM 503 - UNCLASSIFIED EXCAVATION, AS PER PLAN.

DESCRIPTION

SEIN	
	4500695
SFN	
	4500725

ESIGN AGENCY

SEE SHEET				
74/74				
74/74				
	DESIGN	ER	CHECKER	
74/74	TDF		TAG	
	RE	VIE	WER	
21, 25, 30, 34	CPS	0	9-22-22	

	DECOMINATION	01111		1 1 L L L L L L L L L L L L L L L L L L					
						BRIDGE	APPROACH	BRIDGE	APPROACH
ROADWAY									
74/74	WEARING COURSE REMOVED	SQ. YD.	1029	23500	202	761	134		134
74/74	SUBGRADE COMPACTION	SQ. YD.	424	10000	204		212		212
PAVEMENT									
74/74	AGGREGATE BASE	CU. YD.	66	20000	304		33		33
		NTROL	EROSION CO		•	•	•		
21, 25, 30, 34	CRUSHED AGGREGATE SLOPE PROTECTION	CU. YD.	4	20010		2		2	
3/74	CRUSHED AGGREGATE SLOPE PROTECTION, AS PER PLAN	CU. YD.	251	20011	601	126		125	
3/74	TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT	SQ. YD.	34	21060	601		17		17
3/74	ROCK CHANNEL PROTECTION, TYPE C WITH FILTER, AS PER PLAN	CU. YD.	471	{ 32201 }	601	235		236	
DRAINAGE 5 74									
74/74	6" SHALLOW PIPE UNDERDRAIN	FEET	400	11100	605		200		200
CF PRO SUE	74/74 74/74 74/74 21, 25, 30, 34 3/74 3/74 SHE	WEARING COURSE REMOVED 74/74 SUBGRADE COMPACTION 74/74 AGGREGATE BASE 74/74 CRUSHED AGGREGATE SLOPE PROTECTION CRUSHED AGGREGATE SLOPE PROTECTION, AS PER PLAN TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT ROCK CHANNEL PROTECTION, TYPE C WITH FILTER, AS PER PLAN SUBGRADE COMPACTION 74/74 DESTRICT THE CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT ROCK CHANNEL PROTECTION, TYPE C WITH FILTER, AS PER PLAN SUBGRADE COMPACTION 74/74 DESTRICT THE CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT ROCK CHANNEL PROTECTION, TYPE C WITH FILTER, AS PER PLAN SUBGRADE COMPACTION 74/74 DESTRICT THE CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT ROCK CHANNEL PROTECTION, TYPE C WITH FILTER, AS PER PLAN SUBGRADE COMPACTION 74/74	SQ. YD. WEARING COURSE REMOVED SQ. YD. SUBGRADE COMPACTION T4/74 NT CU. YD. AGGREGATE BASE T4/74 CU. YD. CRUSHED AGGREGATE SLOPE PROTECTION CU. YD. CRUSHED AGGREGATE SLOPE PROTECTION, AS PER PLAN SQ. YD. TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT CU. YD. ROCK CHANNEL PROTECTION, TYPE C WITH FILTER, AS PER PLAN SUBGRADE SHE SHE SHE SHE SHE SHE SHE S	ROADWAY	ROADWAY 23500 1029 SQ. YD. WEARING COURSE REMOVED 74/74 10000 424 SQ. YD. SUBGRADE COMPACTION 74/74 PAVEMENT 20000 66 CU. YD. AGGREGATE BASE 74/74 EROSION CONTROL 20010 4 CU. YD. CRUSHED AGGREGATE SLOPE PROTECTION 21, 25, 30, 34 20011 251 CU. YD. CRUSHED AGGREGATE SLOPE PROTECTION, AS PER PLAN 3/74 21060 34 SQ. YD. TIED CONCRETE BLOCK MAT WITH TYPE 2 UNDERLAYMENT 3/74 32201 471 CU. YD. ROCK CHANNEL PROTECTION, TYPE C WITH FILTER, AS PER PLAN 3/74 SUBSTRANCE SHALLOW RIPE LINDERDRAIN SHE	ROADWAY 202 23500 1029 SQ. YD. WEARING COURSE REMOVED 74/74 204 10000 424 SQ. YD. SUBGRADE COMPACTION 74/74	ROADWAY	APPROACH BRIDGE ROADWAY ROAD	ROADWAY 134

ITEM EXT.

GRAND TOTAL

QUANTITIES SHOWN HERE ARE CARRIED TO THE GENERAL SUMMARY.

