

GENERAL NOTES

FOR GENERAL NOTES, SEE SHEET 1/78 AND 2/78.

PROPOSED WORK

THE WORK PROPOSED FOR THESE STRUCTURES SHALL BE ACCOMPLISHED IN TWO CONSTRUCTION STAGES AND IS COMPRISED OF BUT NOT LIMITED TO THE FOLLOWING:

1. REMOVAL OF THE REINFORCED CONCRETE DECK INCLUDING PARAPETS AND RAILING.
2. REMOVAL OF THE ROADWAY END DAMS.
3. REMOVAL OF THE EXISTING SCUPPERS.
4. REMOVAL OF WINGWALL PARAPETS AND EXISTING MEDIAN BARRIERS TO THE LIMITS SHOWN IN THE BRIDGE DRAWINGS.
5. REMOVAL OF EXISTING ASPHALT WEARING SURFACE ON APPROACH SLABS.
6. RESETTING EXISTING BEARINGS AT BOTH ABUTMENTS OF EACH BRIDGE.
7. INSTALLING STRUCTURAL PORTIONS OF EXPANSION JOINTS.
8. PLACEMENT OF NEW SHEAR STUDS ON BEAMS.
9. CONSTRUCTING A NEW REINFORCED CONCRETE DECK SLAB AND NEW SAFETY PARAPETS.
10. CONSTRUCTING NEW CONCRETE WINGWALL SAFETY PARAPETS AND MEDIAN TRANSITION BARRIERS.
11. PATCHING DELAMINATED AREAS AT THE ABUTMENTS AND PIERS.
12. SEALING OF DESIGNATED CONCRETE SURFACES.
13. WIDEN AND OVERLAY WITH ASPHALT CONCRETE THE EXISTING APPROACH SLABS.
14. INSTALL ELASTOMERIC STRIP SEALS IN ONE CONTINUOUS PIECE IN EACH JOINT.

ITEM 202 - PORTIONS OF STRUCTURES REMOVED

THIS ITEM SHALL INCLUDE FOR BOTH LAK-2-0180 (L) AND LAK-2-0180 (R) THE COMPLETE REMOVAL OF THE EXISTING REINFORCED CONCRETE DECK AND PARAPETS, THE COMPLETE REMOVAL OF THE PARAPETS AT THE WINGWALLS, AND THE COMPLETE REMOVAL OF ALL EXPANSION JOINT HARDWARE INCLUDING THOSE PORTIONS OF END DAM GUSSET PLATES AS INDICATED ON SHEET 78/78. ALSO INCLUDED IS THE REMOVAL OF THE TOP 1"-3" OF EACH BACKWALL AS INDICATED ON THE ABUTMENT DEMOLITION AND REPAIR DRAWINGS.

THE FOLLOWING ARE APPROXIMATE QUANTITIES OF MATERIALS TO BE REMOVED UNDER THIS ITEM:

1. SUPERSTRUCTURE CONCRETE (APPROX. 546 CUBIC YARDS)
2. SUBSTRUCTURE CONCRETE (APPROX. 14 CUBIC YARDS)
3. CONCRETE PARAPET (APPROX. 758 LINEAR FEET)

THE ABOVE MATERIALS SHALL BE REMOVED IN TWO PHASES AS SHOWN ON SHEET 5/78 IN THE PROJECT PLANS. EXCAVATION NECESSARY TO REMOVE AND MODIFY PORTIONS OF THE EXISTING STRUCTURE SHALL BE INCLUDED WITH THIS ITEM FOR PAYMENT.

FOR ADDITIONAL NOTES, SEE ITEM 202 - PORTIONS OF STRUCTURES REMOVED ON SHEET 1/78.

REPAIR OF EXISTING CONCRETE

ITEM 519 - PATCHING CONCRETE STRUCTURES SHALL BE USED AS DIRECTED BY THE ENGINEER AND AS OUTLINED ON THE ABUTMENT DEMOLITION AND REPAIR DRAWINGS TO REPAIR DAMAGED CONCRETE AREAS. ALL SURFACES TO BE PATCHED AND THE EXPOSED REINFORCING STEEL WITHIN, SHALL BE THOROUGHLY CLEANED BY ABRASIVE BLASTING PRIOR TO THE CLEANING SPECIFIED BY 519.04 AND 520.05. CLEANING SHALL PRECEDE APPLICATION OF THE PATCHING MATERIAL BY NOT MORE THAN 24 HOURS.

ITEM 622 - TEMPORARY CONCRETE BARRIER, BRIDGE MOUNTED

THE TEMPORARY PRECAST CONCRETE BARRIERS ON THESE BRIDGE DECKS MUST BE ATTACHED TO THE DECKS. ANCHORING DETAILS INDICATED ON SHEET 37/78 SHALL BE USED.

FURNISHING, INSTALLING, MAINTAINING, AND REMOVING TEMPORARY RAILING, INCLUDING THE COMPLETE OR PARTIAL REMOVAL OF ANCHOR HARDWARE AND THE FILLING OF THE ANCHOR VOIDS WITH NONSHRINKING GROUT, SHALL BE INCLUDED IN ITEM 622 (ROADWAY PLANS) FOR PAYMENT.

FIELD PAINTING OF NEW STRUCTURAL STEEL, SYSTEM OZEU

THIS WORK SHALL CONSIST OF SUPPLYING THE MATERIALS, LABOR, AND EQUIPMENT NECESSARY FOR THE CLEANING AND FIELD PAINTING OF THOSE PORTIONS OF THE EXPANSION JOINT HARDWARE NOT FULLY ENCASED IN CONCRETE INCLUDING THE NEW GUSSET SPLICE PLATES DETAILED ON SHEET 78/78. ALSO INCLUDED FOR PAYMENT UNDER THIS ITEM IS TOUCH-UP PAINTING OF EXISTING STEEL REQUIRED AS A DIRECT RESULT OF THE INSTALLATION OF ANY NEW STEEL.

NEW STEEL SHALL BE PROVIDED BARE FOR PREPARATION AND PAINTING IN THE FIELD. FOR PURPOSES OF FIELD PAINTING, NEWLY ERECTED STEEL SHALL BE CONSIDERED EXISTING STEEL AND SHALL BE PREPARED AND PAINTED WITH A PRIME, INTERMEDIATE AND FINISH COAT OF PAINT IN CONFORMANCE WITH THE PROPOSAL NOTE "FIELD PAINTING OF EXISTING STEEL, SYSTEM OZEU." COST OF CLEANING AND PAINTING OF NEW STEEL WITH THE OZEU PAINT SYSTEM SHALL BE INCLUDED IN SPECIAL ITEMS "FIELD PAINTING OF NEW STRUCTURAL STEEL, SYSTEM OZEU." AT THE CONTRACTOR'S OPTION, NEW STEEL MAY BE GIVEN A PRELIMINARY CLEANING IN THE SHOP.

ITEM 516 - RESET BEARINGS

RESETTING OF ALL BEARINGS AT BOTH FORWARD AND REAR ABUTMENTS OF LAK-2-0180 (L) AND LAK-2-0180 (R) SHALL BE ACCOMPLISHED IN ACCORDANCE WITH SHEET 17/78 OF THE PLANS. THE CONTRACTOR SHALL SUBMIT TO THE DIRECTOR FOR APPROVAL HIS PLAN FOR JACKING, BRACING, SHORING, AND RESETTING THE BEARINGS WHILE PORTIONS OF THE BRIDGE REMAIN OPEN FOR TRAFFIC. THE ENTIRE SUPERSTRUCTURE SHALL BE RAISED AT THE ABUTMENT AT ONE TIME. ALL THE SUPPORTS REQUIRED FOR THE RAISING OF THE SUPERSTRUCTURE SHALL BE DESIGNED BY AN OHIO REGISTERED PROFESSIONAL ENGINEER. THIS ITEM OF WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE BID PER EACH BEARING RESET FOR ITEM 516 - RESET BEARINGS. THIS PRICE SHALL BE PAYMENT IN FULL FOR ALL MATERIAL, EQUIPMENT, AND LABOR NECESSARY TO COMPLETE THIS WORK.

APPROACH SLAB WIDENING

ALL MATERIALS (INCLUDING BUT NOT LIMITED TO CLASS C CONCRETE, REINFORCING STEEL, DOWELS, AND PREFORMED EXPANSION JOINT FILLER) AND LABOR REQUIRED IN THE WIDENING OF APPROACH SLABS AS INDICATED IN DETAILS ON SHEET 18/78 OF THE BRIDGE PLANS, SHALL BE INCLUDED FOR PAYMENT IN THE PRICE BID PER SQUARE YARD FOR ITEM 611 IN THE ROADWAY QUANTITIES.

ESTIMATED QUANTITIES FOR LAK-2-0180L

ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION	ABUT.	PIERS	SUPER.	GENERAL
202	11200	LUMP		Portions of Structure Removed	—	—	—	LUMP
509	11400	200	lb.	Reinforcing Steel, Grade 60	—	—	—	200
509	15800	67,514	lb.	Epoxy Coated Reinforcing Steel, Grade 60	2,126	—	65,388	—
510	11100	136	EACH	Dowel Holes	136	—	—	—
511	45700	16	CU. YD.	Class C Concrete, Abutments	16	—	—	—
511	34401	312	CU. YD.	Class S Concrete, Superstructure, as per plan (SEE SH. 36)	—	—	312	—
512	33300	14	SQ. YD.	Type A Waterproofing	14	—	—	—
513	20000	3,290	EACH	Welded Stud Shear Connectors	—	—	3,290	—
516	11200	106	LIN. FT.	Structural Expansion Joints Including Elastomeric Strip Seals	—	—	106	—
516	46700	14	EACH	Reset Bearings	—	—	14	—
519	11100	27	SQ. FT.	Patching Concrete Structures	17	10	—	—
SPECIAL	512 67500	489	SQ. YD.	Sealing of Concrete Surfaces (See Proposal Note) (SEE SH. 37)	69	—	420	—
SPECIAL	512 67504	273	SQ. YD.	Sealing of Concrete Surfaces (Non-Epoxy) (See Proposal Note) (SEE SH. 37)	—	273	—	—
SPECIAL	512 67502	78	SQ. YD.	Sealing of Concrete Surfaces (Epoxy) (See Proposal Note) (SEE SH. 37)	78	—	—	—
SPECIAL	514 00410	LUMP		Field Painting of New Structural Steel, Surface Preparation, System OZEU	—	—	—	LUMP
SPECIAL	514 00420	LUMP		Field Painting of New Structural Steel, Prime Coat, System OZEU	—	—	—	LUMP
SPECIAL	514 00430	LUMP		Field Painting of New Structural Steel, Intermediate Coat, System OZEU	—	—	—	LUMP
SPECIAL	514 00440	LUMP		Field Painting of New Structural Steel, Finish Coat, System OZEU	—	—	—	LUMP

ESTIMATED QUANTITIES FOR LAK-2-0180R

ITEM	ITEM EXT.	TOTAL	UNIT	DESCRIPTION	ABUT.	PIERS	SUPER.	GENERAL
202	11200	LUMP		Portions of Structure Removed	—	—	—	LUMP
509	11400	200	lb.	Reinforcing Steel, Grade 60	—	—	—	200
509	15800	67,514	lb.	Epoxy Coated Reinforcing Steel, Grade 60	2,126	—	65,388	—
510	11100	136	EACH	Dowel Holes	136	—	—	—
511	45700	16	CU. YD.	Class C Concrete, Abutments	16	—	—	—
511	34401	312	CU. YD.	Class S Concrete, Superstructure, as per plan (SEE SH. 36)	—	—	312	—
512	33300	14	SQ. YD.	Type A Waterproofing	14	—	—	—
513	20000	3,290	EACH	Welded Stud Shear Connectors	—	—	3,290	—
516	11200	106	LIN. FT.	Structural Expansion Joints Including Elastomeric Strip Seals	—	—	106	—
516	46700	14	EACH	Reset Bearings	—	—	14	—
519	11100	25	SQ. FT.	Patching Concrete Structures	15	10	—	—
SPECIAL	512 67500	489	SQ. YD.	Sealing of Concrete Surfaces (See Proposal Note)	69	—	420	—
SPECIAL	512 67504	273	SQ. YD.	Sealing of Concrete Surfaces (Non-Epoxy) (See Proposal Note)	—	273	—	—
SPECIAL	512 67502	78	SQ. YD.	Sealing of Concrete Surfaces (Epoxy) (See Proposal Note)	78	—	—	—
SPECIAL	514 00410	LUMP		Field Painting of New Structural Steel, Surface Preparation, System OZEU	—	—	—	LUMP
SPECIAL	514 00420	LUMP		Field Painting of New Structural Steel, Prime Coat, System OZEU	—	—	—	LUMP
SPECIAL	514 00430	LUMP		Field Painting of New Structural Steel, Intermediate Coat, System OZEU	—	—	—	LUMP
SPECIAL	514 00440	LUMP		Field Painting of New Structural Steel, Finish Coat, System OZEU	—	—	—	LUMP

COLPETZER-THOMAS, INC.
AN ENGINEERING GROUP
WILLOUGHBY • MENTOR • NORTH CANTON • STEVENSVILLE • LORAIN

NOTES AND ESTIMATED QUANTITIES
BRIDGE NO. LAK-2-0180 L & R
OVER RUSH ROAD
LAKE COUNTY

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
B.J.A.	J.L.J.	J.L.J.	R.J.C.	J.E.A.	11/15/88	