# 9<sup>th</sup> St SW Bridge Replacement Project, GP 1298 Engineering Department

# Addendum 2

# City of Canton, Ohio

Purchasing Department 218 Cleveland Ave. SW, 4<sup>th</sup> floor Canton, Ohio 44702

9 <sup>th</sup> St. SW Bridge Replaceme	ent Project, GP 1298	
Item/Project		
Engineering Department		
<b>Responsible Department</b>		
Wednesday, June 5, 2019 at	4:00 PM local time	
Bids Due On or Before		
Bid 1	Proposal Submitted By	y <b>:</b>
<b>Company Name</b>		
Street Address		
City	State	Zip
Contact Person	Phone No.	Email Address

# 9<sup>th</sup> St SW Bridge Replacement Project, GP 1298 Engineering Department

# **Request for Information 1:**

## Question:

Item B.4 on page 3 of the RFQ asks for our firm's current overhead rate. How is this rate accounted for in the selection criteria listed on page 4?

## Answer:

The overhead rate is not accounted for in the selection criteria.

# **Request for Information 2:**

## Question:

Are any construction plans of the existing bridge available for review?

## Answer:

Yes, the existing bridge plans are attached for review.

# **Request for Information 3:**

## Question:

Are there any hydraulic studies of this part of the West Branch of the Nimishillen Creek available for review?

## Answer:

The City of Canton does not have hydraulic studies of this part of the West Branch of the Nimishillen Creek available for review.

### DESIGN SPECIFICATION

REPLACED STRUCTURE CONFORMS TO THE "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADDPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY OFFICIALS, 1973, INCLUDING THE 1974 THROUGH 1981 INTERIM SPECIFICATIONS AND THE OHIO "SUPPLEMENT" TO THESE SPECIFICATIONS.

# IMPROVEMENT OF

# 9<sup>™</sup> ST. S.W. BRIDGE

### DESIGN DATA

EXISTING DESIGN LOADING — HS 20—44
CLASS "C" CONCRETE — COMPRESSIVE STRENGTH = 4000 PS.
CLASS "S" CONCRETE — COMPRESSIVE STRENGTH = 4500 PS.
REINFORCING STEEL — ASTM. AGIS, AGIG. OR AGIF GRADE 60,
MINIMUM YIELD STRENGTH = 60,000 PS.L

STRUCTURAL STEEL -- ASITM, A36 - UNIT STRESS = 20,000 P.S.I.
WELDED CONNECTION --- E 70 XX ELECTRODE; UNIT STRESS = 18,000 P.S.I.

# OVER WEST BRANCH OF NIMISHILLEN CREEK

# M°KINLEY TOWNSHIP, CITY OF CANTON STARK COUNTY, OHIO

#### EXISTING STRUCTURE

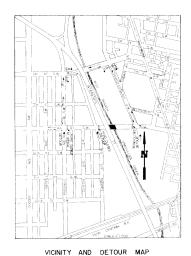
TWO SPAN STEEL I-BEAM AND CONCRETE SLAB BRIDGE. 40'-6"c-c OF BEARING, FFTY FOOT ROADWAY TWO 7'-0" SDEWALKS; TWO 24'-55'-12" APPROACH SLABS, 3" BRICK WEARING COURSE WITH 3'-4" OIL AND SAND BEDDING COURSE 20" SKEW TO HIGHT, OUTSIDE EDGE OF BRIDGE SET ON STRAGHT GRADE.

#### LEGEND

CENTERCH	46.										
EXISTING	RIGHT-OF	-WAY								an many or the second	
FENCE							 				
STORM S	SEWER (E	XISTING) .					 			)	
SANITARY	SEWER	(EXISTING)					 	C	)		
VALVES	LGAS or	WATER)					GAS			WITCH	

#### INDEX TO SHEETS

TITLE SHEET	-
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GENERAL PROJECT NO. 873

## CITY OF CANTON OFFICIALS

STANLEY A. OMICH		MAYOR
RAYMOND DENCZAK	PRESIDENT O	F COUNCIL
EDWARC   L   COLEMAN	c	OUNCILMEN
TONY L. BIASELLA LES WALKER TOM ASCANI		
MARY M BABCOCK JAMES MOFARLANE ROBERT A. CAPESTRAIN	COUNCILMEN	-AT -LARGE
ROBERT FISHER	SERVICE	DIRECTOR
PHILL P NEFF	CITY CIVIL	ENGINEER
SOALLY SUDMOCKY	SAFFTY	DIRECTOR

APPROVED BY THE CANTON STY CIVIL ENSINEER THIS AT DAY OF December . 1982

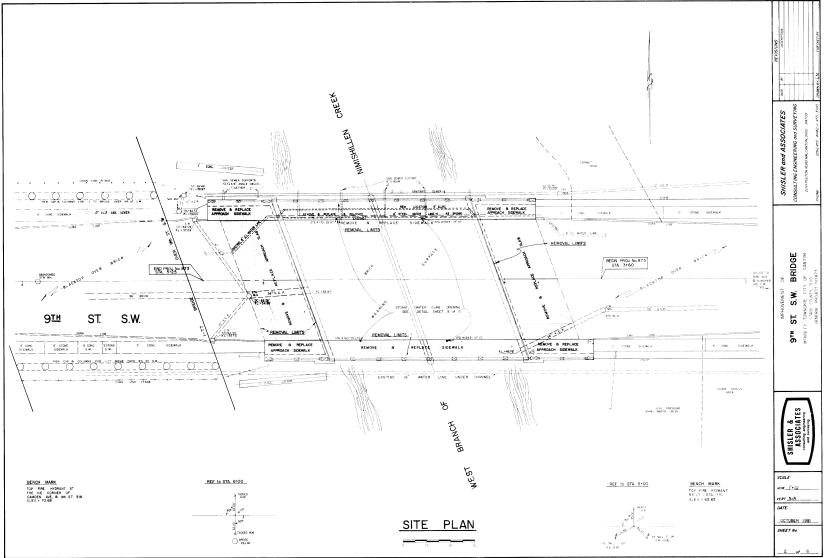
Shiely Lary

SHISLER & ASSOCIATES

CONSULTING ENGINEERING and SURVEYING 2011 FULTON RD, N.W. - CANTON, OHO 44709 PHONE: (216) 455-4942 or 455-2395

FILE No. 5773 27

CONTRACT No.



ALL CONSTRUCTION SHALL CONFORM TO THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, "CONSTRUCTION AND MATERIALS SPECIFICATIONS," 1981 EDITION. ALL ITEMS REFERRED TO BY ITEM NUMBERS, SUCH AS ITEM 511, CONCRETE FOR STRUCTURES, ARE ODOT. CONSTRUCTION AND MATERIAL SPECIFICATIONS, AND DRAWINGS REFERRED TO AS ODOT. DRWG, NO. ARE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION STANDARD

ALL ITEMS REFERRED TO AS CITY OF CANTON NUMBER, SUCH AS STORM MANHOLE NO.16, WILL BE CITY OF CANTON STANDARD CONSTRUCTION DRAWINGS. THE CITY OF CANTON STANDARD DRAWINGS WILL TAKE PRECEDENCE OVER THE STATE OF OHIO STAND-ARDS. THE CITY OF CANTON STANDARDS WILL BE FOLLOWED FULLY, AND THE CASTING OR OTHER MATERIAL FURNISHED WILL MEET THESE DRAWINGS AND SPECIFICATIONS.

#### ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON CITY OF CANTON DATUM. ADD 961859 FT. TO CITY OF CANTON ELEVATIONS TO MEET U.S.G.S.

THE CONTRACTOR SHALL PROVIDE A SUITABLE FIELD OFFICE HAVING A MINIMUM OF ISO SQ. FT. OF FLOOR SPACE, AND IN ADDITION TO THE REQUIREMENTS OF ITEM 619, HE SHALL PROVIDE AND MAINTAIN SANTARY PROVISIONS AS PER F.H.W.A. 107.06. ALL THE AROVE IS INCLIDED IN THE LIMP SUM PRICE RID FOR ITEM 619 FIELD OFFICE

DURING THE REMOVAL AND REPAIRS OF THE BRIDGE, A DETOUR SHALL BE PROVIDED AS SHOWN IN THESE PLANS, SHEET 1: THE CITY WILL PROVIDE, ERECT, MAINTAIN, AND REMOVE DETOUR SIGNING AS IS NECESSARY, TRAFFIC SHALL BE DETOURED UNTIL ALL CONSTRUCTION WITHIN THE WORK LIMITS HAS BEEN COMPLETED.

THE CONTRACTOR SHALL MAINTAIN LOCAL TRAFFIC IN ACCORDANCE WITH THE PROVISIONS

#### REVIEW OF EXISTING UTILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT, AND AGAIN BEFORE FINAL ACCEPT-ANCE BY THE CITY, REPRESENTATIVES OF THE CITY AND THE CONTRACTOR, ALONG WITH LOCAL REPRESENTATIVES, SHALL MAKE AN INSPECTION OF EXISTING UTILITIES (SUCH AS SANITARY, STORM SEWER, WATER LINES, AND ETC.) WITHIN THE WORK LIMITS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCES SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTIONS SHALL BE KEPT IN WRITING BY THE

ALL EXISTING UTILITIES INSPECTED INITIALLY BY THE ABOVE-MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION, ANY CHANGE IN THE CONDITION FROM THE CON-TRACTOR'S OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S OWN EXPENSE.

#### UNDERGROUND UTILITIES

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS HAVE BEEN OBTAINED BY DILLIGENT FIELD CHECKS AND SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, BUT THE CITY OF CANTON DOES NOT GUARANTEE THEIR ACCURACY, OR COMPLETENESS.

### EXISTING UTILITY PROTECTION AND NOTIFICATION

THE CONTRACTOR SHALL CONTACT RESPECTIVE UTILITIES WHEN WORKING IN VICINITY OF UTILITY INSTALLATIONS. ALL EXISTING UTILITIES WHICH MAY BE AFFECTED BY THE PROPOSED CONSTRUCTION, OR ENCOUNTERED DURING CONSTRUCTION, SHALL BE PROPERLY SHORED, BRACED, OR OTHERWISE PROTECTED BY THE CONTRACTOR. THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS SO THAT THERE IS NO INTERRUPTION TO ANY UTILITY DURING CONSTRUCTION OF THIS PROJECT, PAYMENT FOR COSTS INVOLVED IN PERFORMING THIS WORK SHALL BE INCLUDED IN PRICE BID FOR THE PERTINANT ITEMS OF THE

THE FOLLOWING UTILITIES AND OWNERS ARE LOCATED WITHIN THE WORK LIMITS OF

THE CITY OF CANTON SEWER DEPARTMENT 218 CLEVELAND AVENUE S.W.
CANTON, OHIO 44702 PHONE: (216)-489-3450 THE CANTON WATER DEPARTMENT 2664 HARRISBURG ROAD N.E. CANTON, OHIO 44705 PHONE: (216)-489-3310 THE OHIO BELL TELEPHONE COMPANY 832 MCKINLEY AVENUE N.W. ROOM OI 832 M°KINLEY AVENUE N.W. ROOM OI CANTON, OHIO 44703 PHONE: (216)-489-9931 THE OHIO POWER COMPANY 301 CLEVELAND AVENUE S.W. CANTON, OHIO 44702 PHONE:(216)-456-8173 THE EAST OHIO GAS COMPANY 332 SECOND STREET N.W. CANTON, OHIO 44702 PH PHONE (216)-456-1328 WARNER AMEX CABLE 2700 ATLANTIC BLVD. N.E. CANTON, OHIO 44705

PHONE (216)-456-866

## GENERAL

# NOTES-

#### WATER LINE

CONTRACTOR IS RESPONSIBLE FOR PROVIDING MATERIALS

#### WATER LINE RELOCATION SPECIFICATIONS

ALL WATER LINE RELOCATION SHALL BE MADE IN ACCORDANCE WITH OLDER SPECIFICATIONS NO. 814, ENTITLED "WATER MAINS AND SERVICE BRANCHES." THIS SPECIFICATION IS MODIFIED BY THE FOLLOWING SPECIAL PROVISIONS WHICH CONSIST OF THESE NOTES, IN ALL CASES OF CON-FLICT WITH SUPPLEMENTAL SPECIFICATIONS 8:4. THESE NOTES SHALL GOVERN.

#### SEQUENCE OF OPERATIONS.

THE WATER DEPARTMENT AND THE PROJECT ENGINEER SHALL BE NOTIFIED 48 HOURS IN ADVANCE OF CUTTING EXISTING WAIN AND SERVICE SHALL BE INTERRUPTED FOR NO LONGER THAN TWO DI HOUR INTERVALS THE WATER DEPARTMENT WILL CONTROL THE TIME WHEN SERVICE MAY BE INTURBUPTED

#### DEPARTMENT OF WATER APPROVAL

THE CITY OF CANTON WATER DESIREMENT WILL OBSERVE THE WATER LINE RELOCATION WORK. CONSTRUCTION AND MATERIALS SHALL VEET THE APPROVAL OF THE WATER DEPARTMENT AND THE PROJECT ENGINEER. ALL NOTWOTIONS WILL BE WORKED THROUGH THE POLICE TENGER.

#### WORK TO BE DONE BY THE CITY

THE CITY WATER DEPARTMENT WILL OF ALL OPENING AND CLOSING OF VALVES DECESSABLY USED IN SHUTTING OFF WATER AT TIME OF MAKING CONNECTIONS WITH PRESENT LINE.

THE CUTTING OF PIPE FOR INSERTING VALVES, FITTINGS, OR CLOSURE MECHANISMS SHALL BE COME IN A NEAT, AND WORKMAN-LIKE MANOR, WITHOUT DAMAGE TO THE PIPE OR CEMENT LINING, 450 SO AS TO LEAVE 4 SMOOTH END AT RIGHT ANGLES TO THE AXIS OF THE PIPE.

THE FLAME-CUTTING OF PIPE BY MEANS OF AN OXYACETYLENE TORCH SHALL BE PROHIBITED.

AT PLACES WHERE THE PLANS PROVIDE FOR PROPOSED PIPE TO BE CONNECTED TO EXISTING FIPE, IT SHALL SE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE THE EXISTING PIPE BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED LINE THE COST OF

#### WRAPPING EXPOSED FIPE

THE CONTRACTOR SHALL WRAP EXPOSED PELOCATED DI. 8" WATER LINE, WRAPPINS AND MANUFACTURING INSTRUCTIONS WILL BE SUPPLIED BY THE CITY WATER DEPARTMENT. RYMENT FOR WRAPPING SHALL BE INCLUDED IN THE PRICE PER LINEAU FOOT FOR ITEM 314.

DUSTILE IRON PIPE SHALL CONFORM TO THE LATEST SPECIFICATIONS AS ADOPTED BY THE AMERICAN NATIONAL STANDARDS INSTITUTE, INC. (ANS). AND THE AMERICAN WATER WORKS ASSOCIATION (AWWA), SPECIFICALLY, DUSTILE IRON PIPE SHALL CONFORM TO ANSI SPECIFICATION 4.21.51 (AWWA CI51)

THE CHEMICAL CONSTITUENTS SHALL MEET THE PHYSICAL PROPERTY RECOMMENDATIONS OF ASTM A339 TO INSURE THAT THE RON IS SUITABLE FOR SATISFACTORY DRILLING AND CUTTING

UNUESS OTHERWISE SHOWN IN THE PLANS OR THE SPECIAL SPECIFICATIONS, THE THICKNESS OF THE BRAHEL OF THE PIPE SHALL NOT BE LESS THAN THE THICKNESS COMPUTED .
SINS THE METHOD OF ANS 421.5C, AWAR MANUAL H-3. EXCEPT FOR THE FOLICHING LICENSE CONDITIONS UNIT WEIGHT OF SOL 130 POINCS PER CU. FT. THICK AMERIC AGAS OF 15000 LBS., ANNIS CONDITION B, DEPTH OF COVER 8' OR 2.5', WHICHEVER PRODUCES THE GREATEST LOAD IN CONJUNCTION WITH LIVE LOAD, WORKING PRESSURE 150 L95. PER SQ. INCH, SURGE PRESSURE LOO LBS PER SQ. INCH.
THE MINIMUM THICKNESS OF DUCTILE IRON PIPE SHALL BE CLASS 53 FOR 4 THROUGH

#### COATING AND LINING

THE PIPE SHALL BE COATED OUTSIDE WITH A BITUMINOUS COATING OF EITHER COAL TAR OF ASPHALT BASE IN ACCORDANCE WITH ANSI AZI6 (AWWA CIO6) AND LINED INSIDE WITH CEMENT MORTER AND SEAL COAYED IN ACCORDANCE WITH ANSI AZI4 (AWWA CIO4) UNLESS CTHERWISE NOTED.

MECHANICA, AND PUSH-ON JOINTS INCLUDING ACCESSORIES SHALL, CONFORM TO ANS AZIAL LAWWA CITAL

#### ESTIMATED QUANTITIES

THE CONTRACTOR SHALL NOT DRDER THE ESTIMATED QUANTITIES UNTIL DIRECTED TO DO SO BY THE CITY OF CANTON.

4" DIA WEEP HOLES SHALL HE DRILLED THROUGH THE CONCRETE ABUTMENTS AS SHOWN ON PLANS. PAYMENT WILL BE MADE UNDER: ITEM. UN.T. DESCRIPTION.
SPECIAL UN.T. 4 DIA WESP HOLES

#### CURB OPENINGS

CURB OPENINGS SHALL BE PLACED AS DETAILED AT THE LOW POINTS OF THE BRIDGE

DECK SHOWN ON THE SITE PLAN, METAL CURB OPENING CASTINGS SHALL BE NEENAH CATALOG NO R-3262-6, OR EQUAL. PAYMENT WILL BE MADE UNDER:

TEM UNIT SPECIA. EACH

THE JOINTS OF THE EXISTING 36" STORM SEWER THROUGH THE WEST ABUTMENT ARE TO BE REPARED AS INDICATED BY PLANS, BAMMENT WILL BE MADE UNDER-

TEM UNIT DESCRIPTION
SPECIAL JIMP SUN 36 CONDUIT, JOINT REPAIR

#### EXPANSION JOINT

36" STORM SEWER REPAIR

THE CONSTRUCTION OF THE JOINT BETWEEN THE APPROACH SLAB AND THE DECK SHALL MOLDEE THE COST OF OUTTING AND WELDING THE EXISTING ANGLE AS DETALED, APPLYING UNFITHAME PRIMER TO STEEL AND CONCRETE, SUPPLYING AND PLACING THE POLY-ETHYLERE JOINT BACKF.LER, AND FOURING THE DRETHAME JOINT MATERIAL DRETHAME SHALL BE MARBRILASTIC TWO COVPONENT URETHAME, PRYMENT WILL BE MADE UNDER:

SPECIAL. UNIT DESCRIPTION UNIT UNE THANK EXPANSION JOINT

#### BAR-GRIP COUPLERS.

MECHANICAL REMPORENS CONNECTORS SHALL BE BAR-GRIP COUPLERS AS PER DAYTON BARSHICE, NO. SPECIFICATIONS, PRYMENT WILL BE MADE UNDER!

SPECIAL EACH DESCRIPTION BAR-SRIP SYSTEM COUPLERS

#### EPCKY BINDER

EPOXY BINDER FOR DECK REPAIR SHALL BE SIKA CHEMICAL "SIKASTIX 370. SIKADUR HI-MOD" DOW, EPOXY AND SHALL BE APPLIED AS PER MANUFACTURER'S SPECIFICATIONS. HEMOD' DONE EPONT HAS SHEET ITEM UNIT SPECIAL SQ.FT.

EPCKY GROUT FOR DRACK REPAIR SHALL BE SIKA CHEMICAL "SIKASTIX 350, SIKADUR H-MOC LV AND SHALL BE PRESSURE NEEDED AS PER MANUFACTURERS SECFECATIONS
PRIMERY W. L. BE MADE UNDER SECOLA UNIT DESCRIPTION
SECOLA UNIT DESCRIPTION
SECOLA UNIT DESCRIPTION
FOREY SHOUT

<u>EMBECO GROLT :</u> GOULT FOR LEVELING ABLTMEN" BEARING PLATES SHALL BE EMBECO PREMIXED, VON-SHRING GROUT AS FER MANUMACTURERS SPECIFICATIONS PRYMENT WILL BE MADE UNDER SPECIA. SO, FT DESCRIPTION OF THE

#### ITEM 202 - MISCELLANEOUS

ITEM 202. PORTIONS OF STRUCTURE REMOVED, MISCELLANEOUS' INCLUDES MATERIALS
SUCH AS BROK AND DUSON, SDEWALK EXFANSION DAMS, AND 6 I-BEAM SEWER SUPPORTS THAT ARE TO BE REUSED DOST OF REPLACEMENT SHALL BE INCLUDED IN THIS ITEM

AL. SALVAGED STEEL WILL BECOME PROPERTY OF CONTRACTOR.

#### TEMPORARY SUPPORTS

THE CONTRACTOR SHALL PROVIDE, AS NEEDED, TEMPORARY SUPPORTS FOR SANITARY SEWER ALC SUPERSTRUCTURE WHERE REQUIRED

THEY 5:B, PORGUS BACKFILL, SHALL INCLUDE THE COST OF EXCAVATING AND REMOVING FROM THE SCHIT, THE EXISTING PORCUD BACKFILL.

AL CONTRETE SHALL SE TYPE S, USWA HOH EARLY STREAMTH CONTRETE, AND SHALL CONTRA SHALL CONTRA SHALL LE WATER CURED, USWA CONTRETE SHALL SE WATER CURED, USWA CONTRETE SHALL SE WATER CURED, USWA CONTRETE SHALL SE WATER CURED, USWA CONTRETE SHALL SHA

ALL EXISTING STRUCTURAL STEEL, EXPOSED STEEL. AND NEW STEEL SHALL BE SAND BLASTED, COMPLETELY PRIME-COATED PAINTED. AND GIVEN TWO COATS OF FINISH PAINT AS PER SECTION 514, PROLUDING SECTION 514.00

WELDING TO BE SOMEREMED BY THE CURRENT AWS "STRUCTURAL WELSING CODE" EXCEPT AS MODIFIED BY OND STATE SPECIFICATION 51317

#### SPECIAL NOTES

THE CONTRACTOR SHALL CHECK ALL DRAWINGS AND MAKE RECOMMENDATIONS AS TO ANY CHANGET AND/OF AUDITIONS, ALL CHANGES AND/OR ADDITIONS TO BE SUBMITTED TO AND APPROVED BY THE CITY OF CANTON ENGINEERING DEPARTMENT. THE CONTRACTOR SHALL GRADE AND FEATHER ROADWAY PAVEMENT WITH INSTAULED

APPROACH SLARS TO INSURE 4 SMOOTH THROUGHWAY

ASPHALT CONCRETE - GOVERNED BY OHIO STATE DEPARTMENT OF TRANSPORTATION.
A, APPRICACH S.ABS - 1/2 1904 ASPHALT CONCRETE ITEM 404

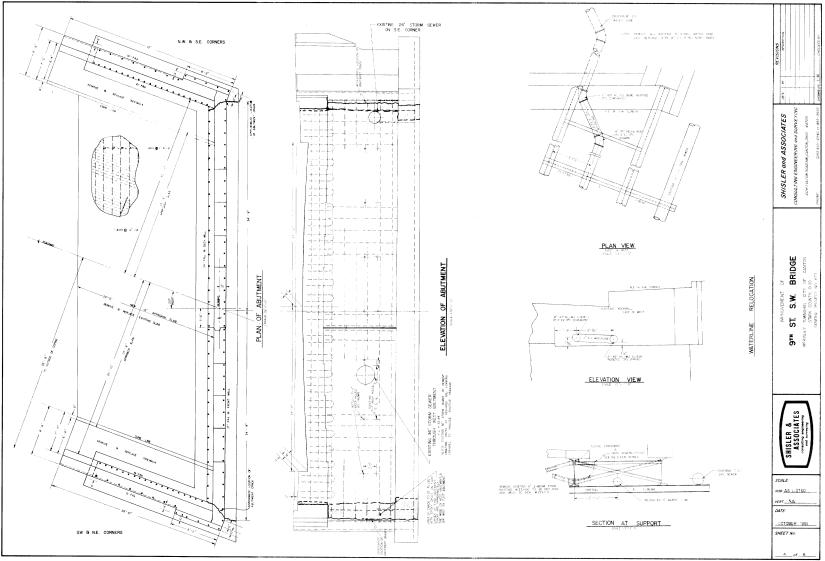
**ASSOCIATES** SHISLER CONSULTING

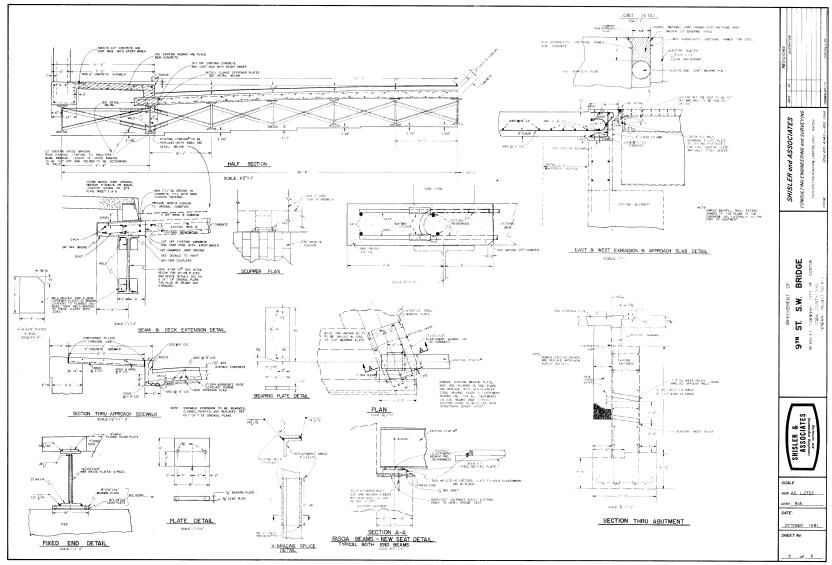
BRIDGE
OF CANTON
CHED
NELSETS

T. S.W.

TOWNSHIP, CITY
STARK COUNTY,
STARK COUNTY, ST. 978

SCALE HOR N/A VERT N/A DATE OCTOBER 1981 SHEET No



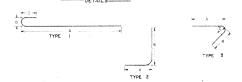


# ESTIMATED QUANTITIES

ITEM #	UNIT	QUANTITY	DESCRIPTION	REMARKS
-ROA	DWAY			
201	LUMP	SUM	CLEARING & GRUBBING	
202	SQ. YD.	274	APPROACH SLAB REMOVAL	
202	SQ. FT.	776	SIDEWALK REMOVAL	
304	CU. YD.	22	3" AGGREGATE BASE	
404	CU. YD.	11	16" ASPHALTIC CONCRETE	
407	GAL.	27	TACK COAT	
509	LB.	19,308	REINFORCING STEEL, GRADE 60	FOR SIDEWALK
516	LIN. FT.	222	1/2" PREFORMED EXPANSION JOINT FILLER	ATTIONAL DEAD
608	SQ. FT.	693	CONCRETE SIDEWALK (EXCLUDING REINFORCING STEEL)	
611	SQ. YD.	274	CONCRETE APPROACH SLAB WOURB (EXCLUDING REINFORCING STEEL)	
614	LUMP	SUM	TRAFFIC MAINTENANCE	
619	LUMP	SUM	FIELD OFFICE	
SPECIAL	LUMP	SUM	36" CONDUIT; JOINT REPAIR	
—- sтя	UCTURE			
202	CU. YD.	26	PORTION OF STRUCTURE REMOVED; CONCRETE	
202	LB	19,100	PORTION OF STRUCTURE REMOVED; STRUCTURAL STEEL	
202	LIN. FT.	114	8" STEEL WATER LINE REMOVAL	SEE NOTES
202	LUMP	SUM	PORTION OF STRUCTURE REMOVED; MISCELL, ANEDUS	OLL HOTES
SPECIAL		166	#4 BAR-GRIP SYSTEM COUPLERS	
SPECIAL.	EACH	166	#5 BAR-GRIP SYSTEM COUPLERS	
509	LB.	469	REINFORCING STEEL; GRADE 60	
511	CU. YD.	29	CLASS "S" CONCRETE; SUPERSTRUCTURE	
513	LB.	20,000	STRUCTURAL STEEL	
514	LUMP	SUM	FIELD PAINTING OF STRUCTURAL STEEL	COMPLETE
514	LUMP	SUM	FIELD PAINTING OF EXISTING STEEL (SURFACE PREPARATION, SPOT PRIME & PRIME COAT)	FINISH COAT
SPECIAL.	LIN FT	107	PREPARATION, SPOT PRIME & PRIME COAT) URETHANE EXPANSION JOINT	SEE DETAIL
516	EACH	107	IO'x12"x V2" ELASTOMERIC BEARING PAD-50 HARDNESS	SEC SEIMAL
516	EACH	2	14"x 18"x 1/8" LEAD BEARING PAD	
518 SPECIAL	CU. YD. EACH	95	POROUS BACKFILL  CURB OPENINGS	POT OFTAI
				SEE DETAIL
SPECIAL	LIN. FT.	42	4"DIA. WEEP HOLES	
SPECIAL	SQ. FT.	32	EMBECO GROUT TO LEVEL ABUTMENT BEARING PLATES	
	SQ. FT.	96	EPOXY BINDER TO REPAIR DECK	SEE NOTES
SPECIAL	CU. FT.	5.3	EPOXY GROUT TO REPAIR ABUTMENT CRACKS	SEE NOTES
814	LIN. FT.	114	8" D.I. WATER LINE	
814	EACH		8"D.L 45° BENDS	SEE NOTES
814	EACH	2	8" D.I. CONNECTING PIECE	

# REBAR SCHEDULE

MARK	NO.	TYPE	LENGTH	WEIGHT(lbs)	Α	В	С	REMARKS
DECK-		-						
D404	12	ST.	29'-0"	253				LAP SPLICED
D405	166	ST.	0'-10"	92				SPECIAL CONNECTION
D507	166	ST.	0'-10"	144				SPECIAL CONNECTION
				469lbs	Total weigh	of structure		
APPRO	ACH	SLA	3					
ABCI	2.06	1	25'-4"	13,934	23'- 6"	0'- 9"	0'-8"	SEE DETAIL
A5CI	76	ST.	28' -3"	2,239				LAP SPLICED
A502	28	ST.	28'-3"	825				LAP SPLICED
A503	105	2	. 1'-8"	176	01-10"	0'-1134		SEE DETAIL
A504	0.2	3	1'- 6"	160	0'-11"	0' - 6"	0'-21/2	STIRRUP BEND
CURB-								
0505	8	ST.	23'-6"	196				
C5C8	92	2	2,-6,,	240	0'=1'*	11-6"		SEE DETAIL
-SIDEW	ALK-							
W402	36	ST.	:5'-0"	36				LAP SPLICED
W403	36	ST	13'-0"	313				TO FIT SIDEWALK
<b>W</b> 506	140	ST.	5'-11"	864				
				19,308 lbs	Total weig	it of roadwa	1	



974 ST S.W. BRIDGE
WARET THROUGH UT IN CARDING
CREATE THROUGH UT IN CARDING
CREATE. PRACE (NO. 919



SCALE

NOR N/A

VERT N/A

DATE:

OCTOBER 19

SHEET No: