KELLY AVENUE IMPROVEMENT
PART I
CITY OF AKRON BRIDGE NO. 162 AND 163
RELOCATED KELLY AVENUE OVER THE RELOCATED LITTLE CUYAHOGA RIVER
THIRD AVENUE OVER THE RELOCATED LITTLE CUYAHOGA RIVER

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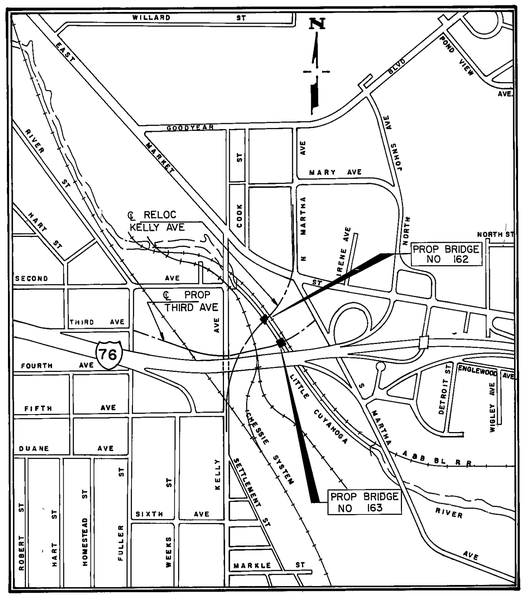
ODOT SUPPLEMENTAL SPECIFICATIONS	
NUMBER	DATE
838	1-13-77

ODOT STANDARD CONSTRUCTION DRAWINGS			
NUMBER	DATE	NUMBER	DATE
BR-2-67	10-15-71		
HL-5	9-6-73		
PSBD-1-71	9-1-71		

CITY OF AKRON STANDARD CONSTRUCTION DRAWINGS		
NUMBER	NUMBER	NUMBER
A-5401		
	B-3550-a	
A-5403		
B-205-A-1	B-3701-b	
B-213-a		



LOCATION MAP

0 500 1000 1500

SCALE

PORTION TO BE IMPROVED

SCALES

PLAN - 1"= 30'
PROFILE - 1"=5'
CROSS SECTIONS - 1"= 5' HORIZ
1"= 5' VERT

a adache · ciuni · lynn associates
cl
a CONSULTING ENGINEERS
1655 W MARKET ST
AKRON, OHIO 44313

STATE OF OHIO · WILLIS C. LYNN 26415 REGISTERED PROFESSIONAL ENGINEER

Willis C. Lynn
REGISTERED ENGINEER Nº 26415

STATE OF OHIO · STEVEN V. CIUNI 5284 REGISTERED SURVEYOR

Steven V. Ciuni
REGISTERED SURVEYOR Nº 5284

ACL form no 1

CITY OF AKRON OHIO
DEPARTMENT OF PUBLIC SERVICE
BUREAU OF ENGINEERING

1979 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL, AND THE GENERAL CONSTRUCTION AND MATERIALS SPECIFICATIONS OF THE CITY OF AKRON, INCLUDING ALL APPLICABLE ADDENDUMS SHALL GOVERN THIS PROJECT

THE RIGHT OF WAY FOR THIS PROJECT WILL BE PROVIDED BY THE CITY OF AKRON

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING OF THE HIGHWAY TO TRAFFIC

SUBMITTED Pawan K. Khaitan DESIGN MANAGER DATE 5/20/80

SUBMITTED D. Watson CITY ENGINEER DATE 5/20/80

APPROVED William C Sykes SERVICE DIRECTOR DATE 5/21/80

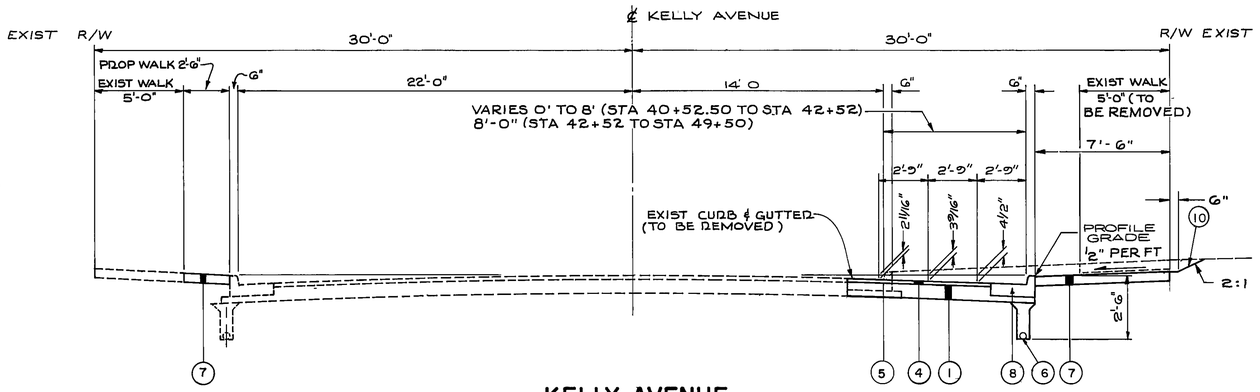
180-032-80

Acc No: 1774
DWG No. A-9541

ADACHE-CIUNI LYNN ASSOC
CALC BY DATE
CHKD BY: DATE

KELLY AVENUE
PART I

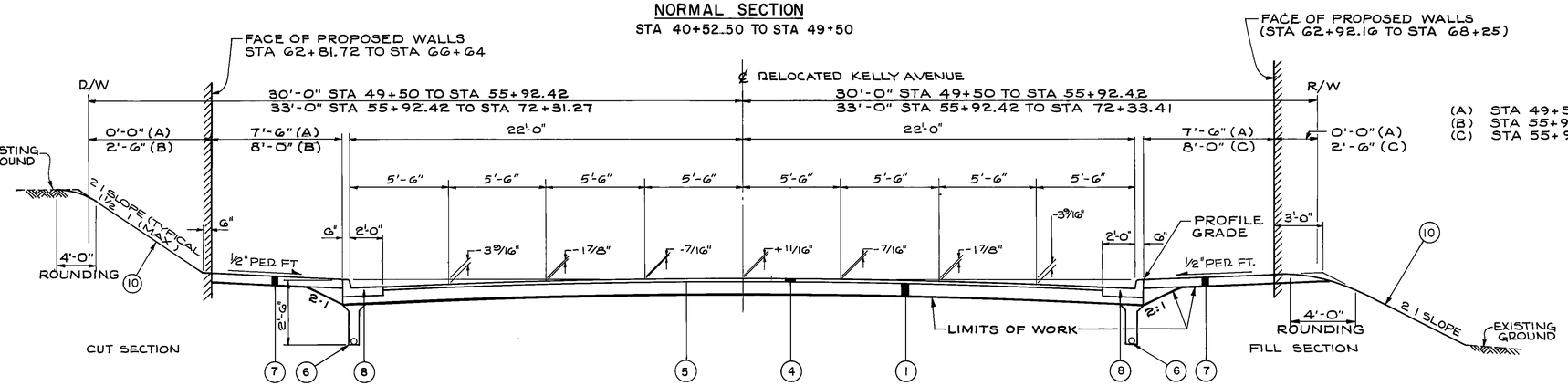
TYPICAL SECTIONS
TYPE 404



KELLY AVENUE

NORMAL SECTION

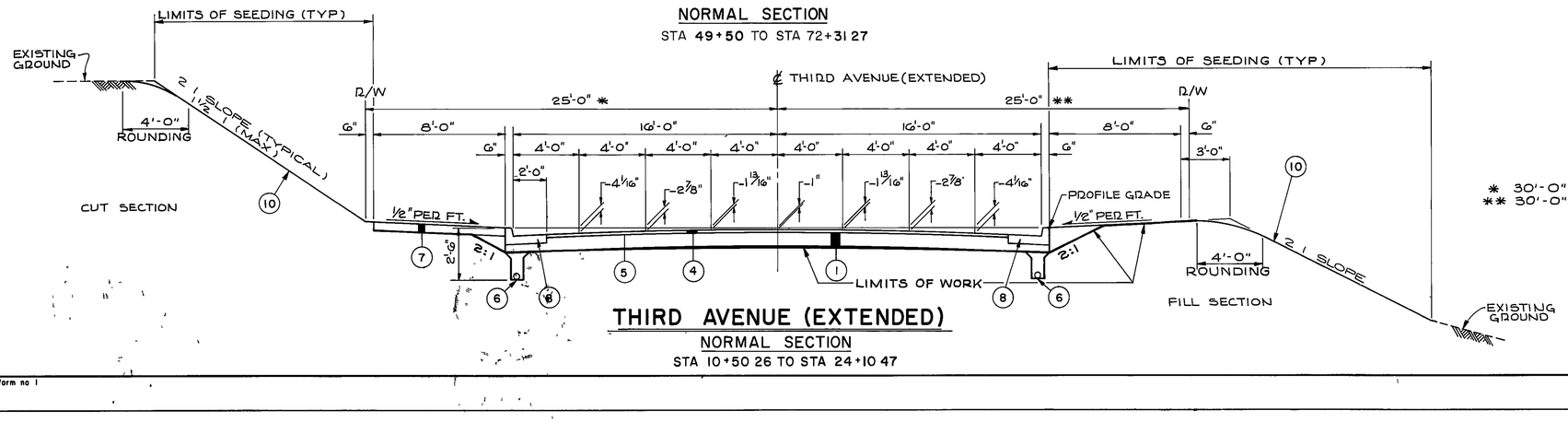
STA 40+52.50 TO STA 49+50



RELOCATED KELLY AVENUE

NORMAL SECTION

STA 49+50 TO STA 72+31 27



THIRD AVENUE (EXTENDED)

NORMAL SECTION

STA 10+50 26 TO STA 24+10 47

LEGEND

(1)	301	10 3/4" BITUMINOUS AGGREGATE BASE, AC-20 12T-11 OR 12T-12
(2)	305	8" PORTLAND CEMENT CONCRETE BASE
(3)	403	1 1/2" ASPHALT CONCRETE, AC-20
(4)	404	1 1/4" ASPHALT CONCRETE, AC-20
(5)	407	TACK COAT
(6)	605	4" SHALLOW PIPE UNDERDRAINS
(7)	608	6" CONCRETE WALK
(8)	609	COMBINATION CURB AND GUTTER, TYPE 2, MODIFIED
(9)	609	CURB, TYPE 6
(10)	659	SEEDING AND MULCHING

* 30'-0" STA 20+95 TO STA 22+11.72
** 30'-0" STA 21+10 TO STA 22+22.38

NOTE

THESE SECTIONS ARE FOR REFERENCE PURPOSES ONLY. NO PAVING, WALKS, CURBS, OR UNDERDRAINS ARE TO BE INCLUDED IN THIS CONTRACT. FILLS SHALL BE CONSTRUCTED UP TO THE BOTTOM OF THE FUTURE 301 COURSE, AS SHOWN.

Acc No 17711
Dwg No A-9540

1980-032-00

ACL form no 1

TYPICAL SECTIONS

ADACHE CIUNI LYNN ASSOC
CALC BY DATE
CHKD BY DATE

GENERAL NOTES

FIELD OFFICE

THE CONTRACTOR SHALL PROVIDE A SUITABLE FIELD OFFICE HAVING A MINIMUM OF 300 SQ. FT. OF FLOOR SPACE AND IN ADDITION TO THE REQUIREMENTS OF ITEM 619, HE SHALL PROVIDE AND MAINTAIN SANITARY PROVISIONS AS PER 107.06. ALL THE ABOVE IS INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 619, FIELD OFFICE.

ROUNDING OF CORNERS SHOWN ON CROSS SECTIONS

THE ROUNDED CORNERS SHOWN ON THE TYPICAL SECTIONS APPLY TO ALL CROSS SECTIONS EVEN THOUGH OTHERWISE SHOWN ON THESE PLANS.

ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON U.S.G.S. DATUM.

UNDERGROUND UTILITIES

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

UTILITY OWNERSHIP

THE FOLLOWING UTILITIES AND OWNERS ARE LOCATED WITHIN THE WORK LIMITS OF THIS PROJECT:

CITY OF AKRON
SEWER MAINTENANCE DIV.
755 HOME AVE.
AKRON, OHIO
PHONE: 375-2666

OHIO EDISON COMPANY
III CASCADE PLAZA
AKRON, OHIO
PHONE: 762-9661

AKRON & BARBERTON BELTLINE RAILROAD
P.O. BOX 712
BARBERTON, OHIO
PHONE: 745-2517

GOODYEAR TIRE & RUBBER CO.
1144 EAST MARKET ST.
AKRON, OHIO
PHONE· 794-2645

SPECIFICATIONS

IN GENERAL, THE "STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, CONSTRUCTION AND MATERIAL SPECIFICATIONS", DATED JANUARY, 1979 AS AMENDED SHALL GOVERN THE CONSTRUCTION OF THIS PROJECT. THE CONSTRUCTION OF CERTAIN ITEMS OF WORK FOR THIS PROJECT SHALL BE GOVERNED BY THE "CITY OF AKRON, GENERAL CONSTRUCTION AND MATERIALS SPECIFICATIONS," 1965 EDITION INCLUDING ALL APPLICABLE ADDENDUMS. THESE ITEMS OF WORK SHALL BE AS SHOWN IN THE PLANS AND PROPOSAL.

ESTIMATED QUANTITIES

ESTIMATED QUANTITIES OF MATERIALS SHALL NOT BE ORDERED BY THE CONTRACTOR UNTIL DIRECTED BY THE ENGINEER.

PROTECTION OF TREES AND SHRUBBERY

THE CONTRACTOR SHALL TAKE PARTICULAR CARE IN HIS OPERATIONS TO PROTECT ANY TREES OR SHRUBBERY WITHIN THE LIMITS OF A WORK AGREEMENT, BUT OUTSIDE THE CONSTRUCTION LIMITS. ANY DAMAGE TO SUCH TREES AND SHRUBS WHICH IS CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT NO COST TO THE CITY.

REMOVAL OF TREES AND STUMPS

ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS OF THIS PROJECT SHALL BE REMOVED UNDER THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING, EXCEPT THAT THOSE TREES FOR WHICH PROTECTION AND PRESERVATION WORK IS INDICATED ELSEWHERE IN THESE PLANS SHALL NOT BE REMOVED.

THE CITY OF AKRON RESERVES THE RIGHT TO ORDER THE REMOVAL OF ADDITIONAL TREES OR STUMPS OUTSIDE THE LIMITS OF CONSTRUCTION BUT WITHIN THE RIGHT-OF-WAY AND/OR EASEMENT LINES. PAYMENT FOR THE REMOVAL OF THESE ADDITIONAL TREES OR STUMPS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

CONNECTION TO EXISTING PIPE

WHERE THE PLANS PROVIDE FOR PROPOSED CONDUIT TO BE CONNECTED TO, OR TO CROSS EITHER OVER OR UNDER AN EXISTING SEWER, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE THE EXISTING PIPE BOTH AS TO LINE AND GRADE BEFORE HE STARTS TO LAY THE PROPOSED CONDUIT.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE PERTINENT PIPE ITEMS.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT, AND AGAIN BEFORE FINAL ACCEPTANCE BY THE CITY, REPRESENTATIVES OF CITY AND THE CONTRACTOR SHALL MAKE AN INSPECTION OF THE EXISTING SEWERS 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 CITY.

ALL NEW CONDUITS, INLETS, CATCH BASINS AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE CITY.

ITEM 499, CONCRETE - GENERAL

THE COARSE AGGREGATE SPECIFICATION 703.02 LISTED UNDER ITEM 499 CONCRETE-GENERAL OF THE 1979 ODOT CONSTRUCTION AND MATERIAL SPECIFICATION SHALL BE MODIFIED TO DELETE WASHED GRAVEL.

REMOVAL OF EXISTING PIPE

THE REMOVAL OF ALL EXISTING PIPE DRAINS AND OTHER ABANDONED UTILITIES WHICH WOULD NORMALLY BE REMOVED IN VARIOUS EXCAVATION ITEMS SHALL BE INCLUDED FOR PAYMENT IN THE UNIT PRICES BID FOR THE RESPECTIVE EXCAVATION ITEMS, UNLESS OTHERWISE ITEMIZED IN THE PLANS.

CONTACTS WITH THE GOODYEAR TIRE AND RUBBER COMPANY

CONTACTS WITH THE GOODYEAR TIRE AND RUBBER COMPANY SHOULD BE MADE THRU:

MR. RAY DIXON
GOODYEAR TIRE AND RUBBER COMPANY
1144 EAST MARKET STREET
AKRON, OHIO 44316
PHONE: 794-2645

UNSUITABLE MATERIAL EXCAVATION

ALL UNSUITABLE MATERIAL SHALL BE REMOVED WITHIN THE LIMITS SHOWN ON THE CROSS-SECTIONS, OR AS OTHERWISE DIRECTED BY THE ENGINEER. THE LIMITS SHOWN WERE TAKEN FROM AVAILABLE DATA FROM SOIL BORINGS AND ARE THEREFORE APPROXIMATE.

THE TOP OF SLOPE FOR EXCAVATION OF UNSUITABLE MATERIAL SHALL IN NO CASE BE CLOSER THAN 12 FEET FROM THE CENTER OF THE RAILROAD TRACKS. A MAXIMUM SLOPE OF 1½:1 SHALL BE USED FOR UNSUITABLE EXCAVATION ALONG THE TRACKS. A SLOPE OF 1:1 SHALL BE USED AT ALL OTHER LOCATIONS.

UNSUITABLE MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LOCATION AND MANNER TO BE APPROVED BY THE ENGINEER. IN NO CASE SHALL THIS MATERIAL BE USED FOR ROADWAY EMBANKMENT.

STORM AND SANITARY CONSTRUCTION AND PROTECTION

WHERE PROPOSED STORM AND SANITARY SEWERS ARE TO BE CONSTRUCTED ADJACENT TO EXISTING PRIVATE OR PUBLIC UNDERGROUND LINES, THE CONTRACTOR SHALL PROVIDE SUITABLE PROTECTIVE DEVICES SO AS TO PREVENT ANY DAMAGE OR CREATE A SITUATION THAT WOULD CAUSE SUSPENSION OF SERVICES.

MAINTENANCE OF SEWER FLOWS

THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS SO AS TO MAINTAIN AT ALL TIMES SEWER FLOWS THROUGH EXISTING FACILITIES TO REMAIN IN PLACE AND THROUGH EXISTING FACILITIES TO BE REPLACED UNTIL NEW FACILITIES ARE COMPLETED AND PLACED INTO USE.

PAYMENT FOR ANY ADDITIONAL COSTS INVOLVED IN MAINTAINING THESE FLOWS BY PUMPING OR BY ANY OTHER MEANS APPROVED BY THE ENGINEER SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE RESPECTIVE ITEMS OF PIPE SEWER.

COORDINATION WITH OTHER CONTRACTORS

THE CONTRACTOR SHALL BE MADE AWARE OF OTHER CONSTRUCTION WORK IN AND ADJACENT TO THE LIMITS OF WORK OF THIS PROJECT. COORDINATION AMONG THE VARIOUS CONTRACTORS AND OWNERS IS IMPERATIVE. THE SEQUENCE OF WORK FOR THIS PROJECT IS DEPENDANT ON ITEMS OF WORK TO BE PERFORMED BY OTHERS. THE FOLLOWING PROJECTS AND OWNERS MAY BE INVOLVED:

THE CITY OF AKRON
LITTLE CUYAHOGA INTERCEPTOR #1

GOODYEAR TIRE & RUBBER CO.
LITTLE CUYAHOGA RIVER RELOCATION

GOODYEAR TIRE & RUBBER CO.
RAILROAD SIDING RELOCATION

SEQUENCE OF OPERATIONS

CERTAIN ITEMS OF WORK IN THIS CONTRACT CANNOT BE PERFORMED UNTIL WORK ON OTHER PROJECTS SO PERMITS. THE OTHER PROJECTS ARE SIMILARLY CONTROLLED BY WORK IN THIS CONTRACT. THE FOLLOWING IS A LIST OF THESE RESTRICTIONS:

THE LITTLE CUYAHOGA INTERCEPTOR MUST BE COMPLETED WITHIN THE PROJECT LIMITS, THE TEMPORARY TIE-INS TO THE EXISTING SEWER MUST BE MADE, AND FLOW DIVERTED TO THE NEW SEWER BEFORE ANY WORK CAN COMMENCE ON ABUTMENT A-2 OF THE THIRD AVENUE BRIDGE. WORK SHALL NOT BEGIN UNTIL VERIFICATION OF THIS COMPLETION IS GIVEN BY THE ENGINEER. ANTICIPATED COMPLETION DATE IS JULY 31, 1980.

THE ABUTMENTS OF BOTH THE KELLY AVENUE AND THIRD AVENUE BRIDGES MUST BE COMPLETED ALONG WITH THE FOUR RETAINING WALLS BEFORE THE LITTLE CUYAHOGA RIVER CAN BE RELOCATED. ANTICIPATED DATE FOR COMPLETION OF ABUTMENTS IS OCTOBER 29, 1980.

THE RELOCATED GOODYEAR POWER POLE AT STA. 58+93.5, 42.7' RT. OF KELLY AVENUE WILL BE CONSTRUCTED BY OTHERS AFTER ABUTMENT A-1 AND RETAINING WALL NO. 1 ARE COMPLETED AND BACKFILLED. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PREVENT DAMAGE TO THE EXISTING POLE AND OVERHEAD LINES IN THE AREA OF ABUTMENT A-2.

THE DATES GIVEN ABOVE ARE ANTICIPATED DATES. THE CITY OF AKRON IS NOT RESPONSIBLE FOR ANY CHANGES TO THESE DATES THAT MAY BE REQUIRED DUE TO UNFORESEEN REASONS.

ACC. No. 1771
DWG No. A-9539

1980-032-00

ADACHE CIUNI LYNN ASSOC
CALC BY DATE
CHKD BY DATE

GENERAL SUMMARY

KELLY AVENUE
PART I

4
39

ITEM	SHEET NUMBER 11	10	9	8	7	6	5	4	3
ROADWAY									
201 LS LS CLEARING AND GRUBBING									LS
203 4586 CY EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION (UNSUITABLE EXCAVATION)			2042	1524	1020				
203 382 CY EXCAVATION NOT INCLUDING EMBANKMENT CONSTR	103	279							
203 1444 CY EMBANKMENT	90	393	468	146	347				
203 3952 CY EMBANKMENT USING GRANULAR MATERIAL			1530	1180	1242				
87* 136 LF CONCRETE HEADED						60	76		
DRAINAGE									
11* 12 LF INLET CONNECTIONS, 12" PIPE							12		
180* 54 LF 12" VITRIFIED PIPE SEWER C-700 ES						42	12		
180* 18 LF 15" VITRIFIED PIPE SEWER C-700 ES						18			
18E* 41 LF 18" VITRIFIED PIPE SEWER C-700 ES							41		
22A* 18 LF 12" CAST IRON PIPE SEWER							18		
22B* 18 LF 16" CAST IRON PIPE SEWER						18			
22C* 18 LF 18" CAST IRON PIPE SEWER							18		
22D* 20 LF 20" CAST IRON PIPE SEWER						20			
22E* 26 LF 30" CAST IRON PIPE SEWER							26		
38* 3 EA MANHOLES, STD ON PIPE SEWER						2	1		
47A* 1 EA INLET, PLAN-D							1		
EROSION CONTROL									
207 100 SY TEMPORARY SEEDING AND MULCHING									
GENERAL									
G19 LS LS FIELD OFFICE									LS
G23 LS LS CONSTRUCTION LAYOUT STAKES									LS
G24 LS LS MOBILIZATION									LS
10305 LS LS PREMIUM FOR CONTRACT PERFORMANCE BOND AND PAYMENT BOND									LS
STRUCTURES									
KELLY AVENUE BRIDGE SEE SHEET 18									
THIRD AVENUE BRIDGE SEE SHEET 25									
RETAINING WALLS SEE SHEET 32									

* - INDICATES CITY OF AKRON SPECIFICATIONS. (ALL OTHER ITEMS SHALL CONFORM TO ODOT SPECIFICATIONS)

1980-032-00

Acc No 17711
DWG No. A-9538

ACL form no 1

ADACHE CIUNI LYNN ASSOC	
CALC BY	DATE
CHKD BY	DATE

CITY OF AKRON BM J-302
DISK SET VERTICALLY IN THE NW CONCRETE PIER OF THE EAST EXPRESSWAY OVER KELLY AVE ELEV 1006714

KELLY AVENUE
PART I

FOR DRAINAGE PROFILES SEE SHEET NO 13

Acc. No. 17711
Dwg No A-9537

ESTIMATED QUANTITIES

REF NO.	STATION TO STATION	SIDE	11* 12" VIT INLET CONNECTION LF	22C* 18" CI PIPE SEWER LF	18C* 12" VIT STM SEWER LF	18E* 18" VIT STM SEWER LF	22E* 30" CI PIPE SEWER LF	22A* 12" CI PIPE SEWER LF	38* STD MAN-HOLE EA	47A* INLETS TYPE "D" EA	87* CONCRETE HEADER LF	SEE SHEET
P-1	58+86 TO 58+98	LT			12							13
P-2	59+68 TO 60+08	LT				41						13
P-3	59+96 TO 60+08	LT	12									13
P-6	59+74 TO 60+00	LT					26					13
P-8	58+98 TO 59+14	LT						18				13
P-10	59+50 TO 59+68	LT		18								13
MH-1	60+08	LT							1			13
I-1	59+96	LT								1		13
H-2	59+74 84	L/R									76	
TOTALS			12	18	12	41	26	18	1	1	76	

1980-032.00

KELLY AVE. PLAN & PROFILE STA. 58 + 80 TO STA. 59+75.35

UGR 882

ADACHE CIUNI LYNN ASSOC
CALC BY **DATE**
CHKD BY **DATE**

KELLY AVENUE
PART I

FOR DRAINAGE PROFILES, SEE SHEET - 13

Acc No 17711
DWG No A-9536

REF NO.	STATION TO STATION	SIDE	18C* 12" VIT STM SEW	18D* 15" VIT STM SEW	22D* 20" C.I PIPE SEWER	22B* 16" C.I PIPE SEWER	38* STD MANHOLE	87* CONCRETE HEADER	SEE SHEET
			LF	LF	LF	LF	EA	LF	
H-1	21+82.03	L/R						60	
MH-2	20+94	LT					1		13
MH-3	21+93	LT					1		13
P-4	20+94 TO 21+02	LT		18					13
P-5	21+50 TO 21+93	LT	42						13
P-7	21+69 TO 21+89	LT			20				13
P-9	21+02 TO 21+10	LT				18			13
TOTALS			42	18	20	18	2	60	

ESTIMATED QUANTITIES

THIRD AVE. PLAN & PROFILE STA. 20+82 TO STA. 21+82.54

1980-032-00

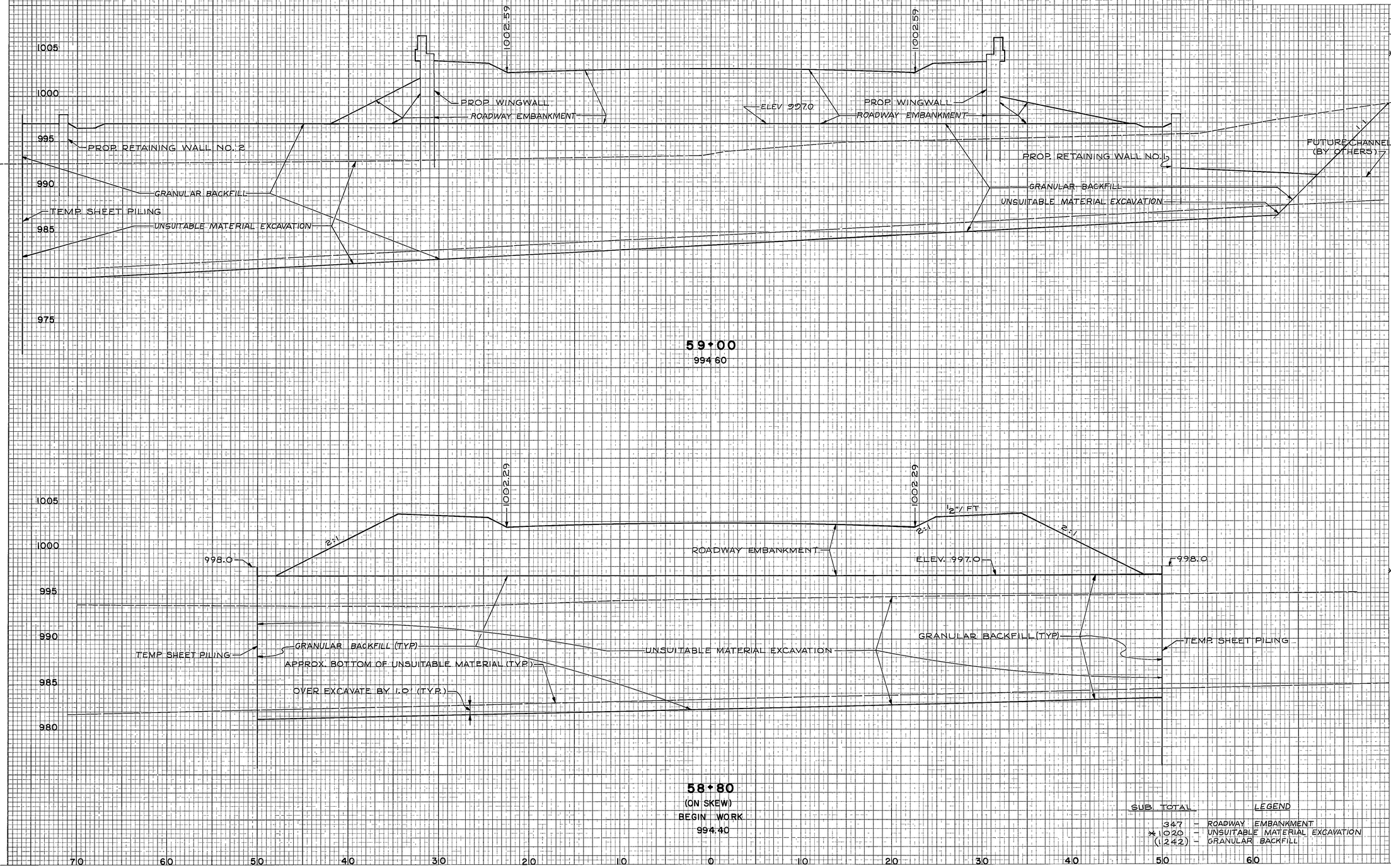
UGR 882

SEEDING	
END WIDTH	SQ YDS

ADACHE-CIUNI-LYNN INC
CALC BY DATE
CHKD BY DATE

KELLY AVENUE
PART I

7
39



	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
	0	926		
	×1567	×0		
	(0)	(1874)		
			0	347
			×1020	×0
			(0)	(1242)
	0	511		
	×1187	0		
	(0)	(1480)		

SUB TOTAL

LEGEND

347 – ROADWAY EMBANKMENT
×1020 – UNSUITABLE MATERIAL EXCAVATION
((1242)) – GRANULAR BACKFILL

1980-032.00

KELLY AVE. CROSS SECTIONS STA. 58 + 80 TO STA. 59 + 00

SEEDING	
END WIDTH	SQ YDS

ADACHE - CIUNI - LYNN INC
CALC BY DATE
CHKD BY DATE

KELLY AVENUE
PART I

	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
	0 *1551 (0)	0 *0 (924)		
			0 *924 (0)	0 *0 (556)
(AHEAD) (BACK) (AHEAD) (BACK)	0 0 *1734 (0) (0)	0 375 *0 (1053) (1557)		
			0 *600 (0)	146 *0 (624)
	0 *1567 (0)	426 *0 (1874)		

SUB TOTAL	LEGEND
146	ROADWAY EMBANKMENT
*1524	UNSUITABLE MATERIAL EXCAVATION
(1180)	GRANULAR BACKFILL

KELLY AVE. CROSS SECTIONS STA. **59 + 09.82** TO STA. **59 + 25**

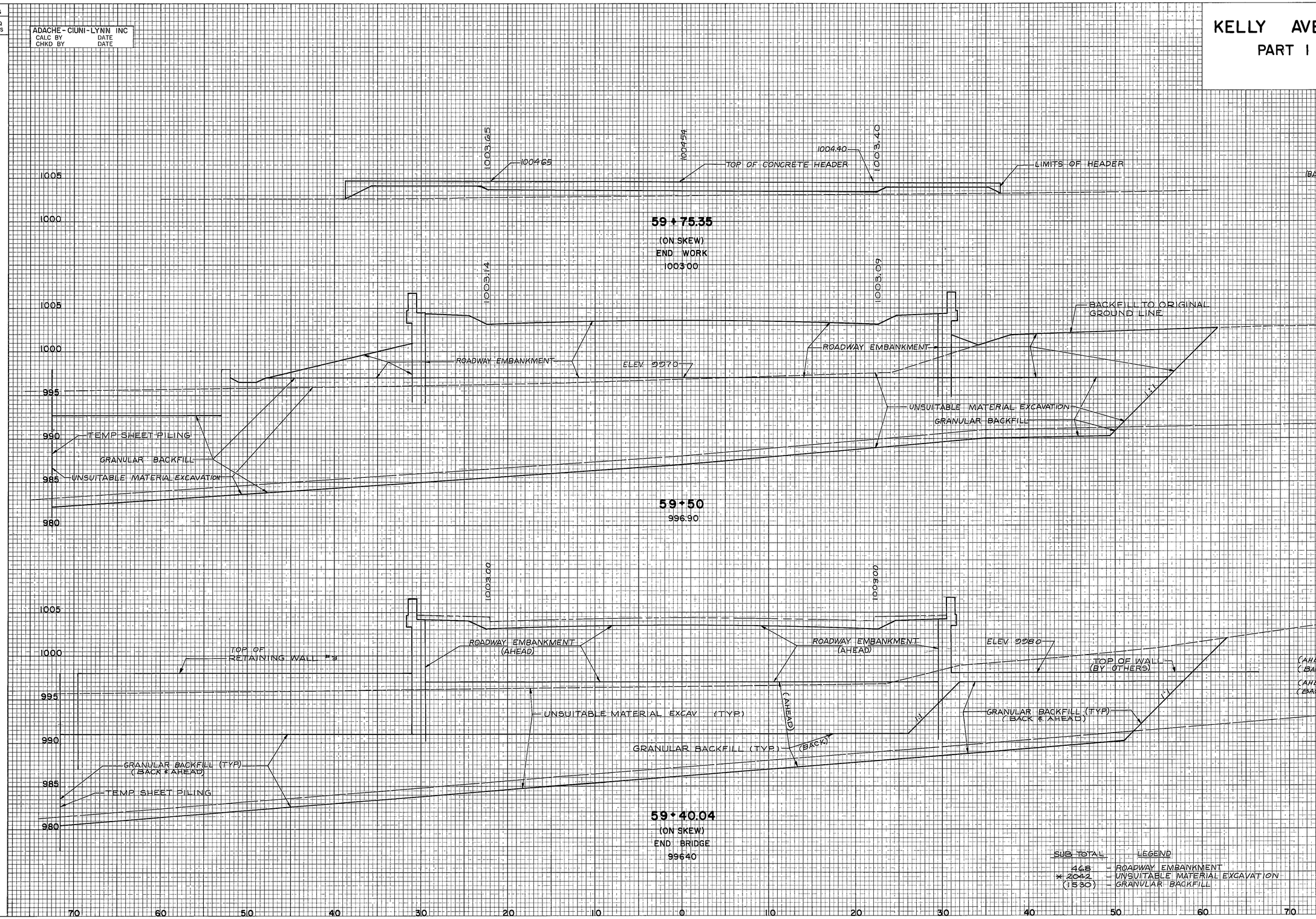
1980-032-OD

SEEDING	
END WIDTH	SQ YDS

ADACHE - CIUNI - LYNN INC
CALC BY DATE
CHKD BY DATE

KELLY AVENUE
PART I

9
39



	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
(BACK)	0	60		
	×0	×0		
	(0)	(0)		
	0	293		
	×663	×0		
	(0)	(581)		
	0	564		
	×1412	×0		
	(0)	(1237)		
	0	175		
	×534	×0		
	(0)	(452)		
(AHEAD)	0	385		
(BACK)	0	0		
(AHEAD)	×1484	×0		
(AHEAD)	(0)	(1213)		
(BACK)	(0)	(860)		
	0	0		
	×845	×0		
	(0)	(497)		
	0	0		
	×1551	×0		
	(0)	(924)		

SUB TOTAL
468
× 2042
(1530)

LEGEND
– ROADWAY EMBANKMENT
– UNSUITABLE MATERIAL EXCAVATION
– GRANULAR BACKFILL

1980-032-00

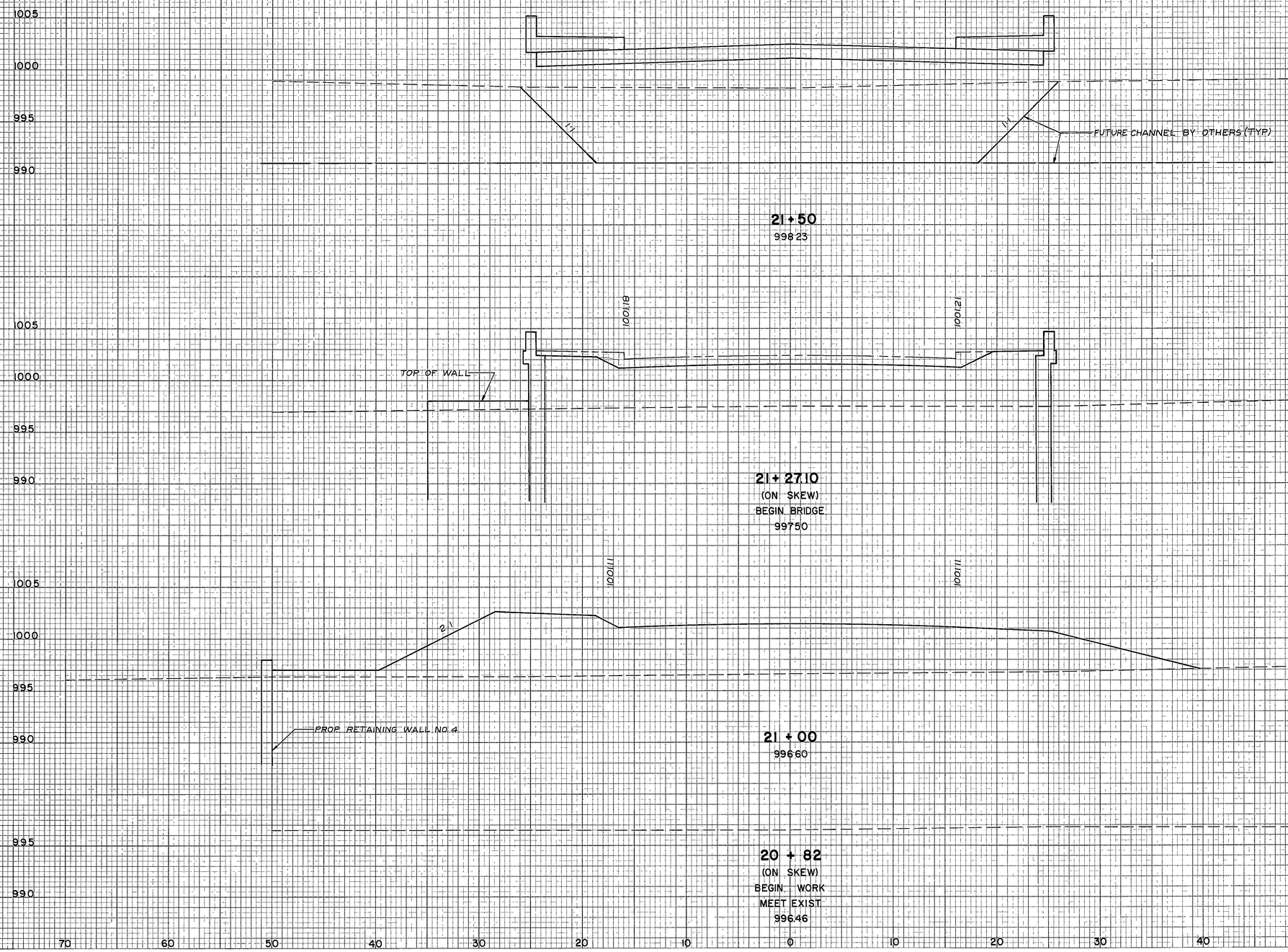
KELLY AVE. CROSS SECTIONS STA. 59 + 40.04 TO STA. 59 + 75.35

SEEDING	
END WIDTH	SQ YDS

ADACHE - CIUNI - LYNN INC
CALC BY DATE
CHKD BY DATE

KELLY AVENUE
PART I

10
39



	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
	329	0		
			279	0
(AHEAD)	329	0		
(BACK)	0	208		
			0	278
			0	345
			0	115
			0	0

00-232-0816

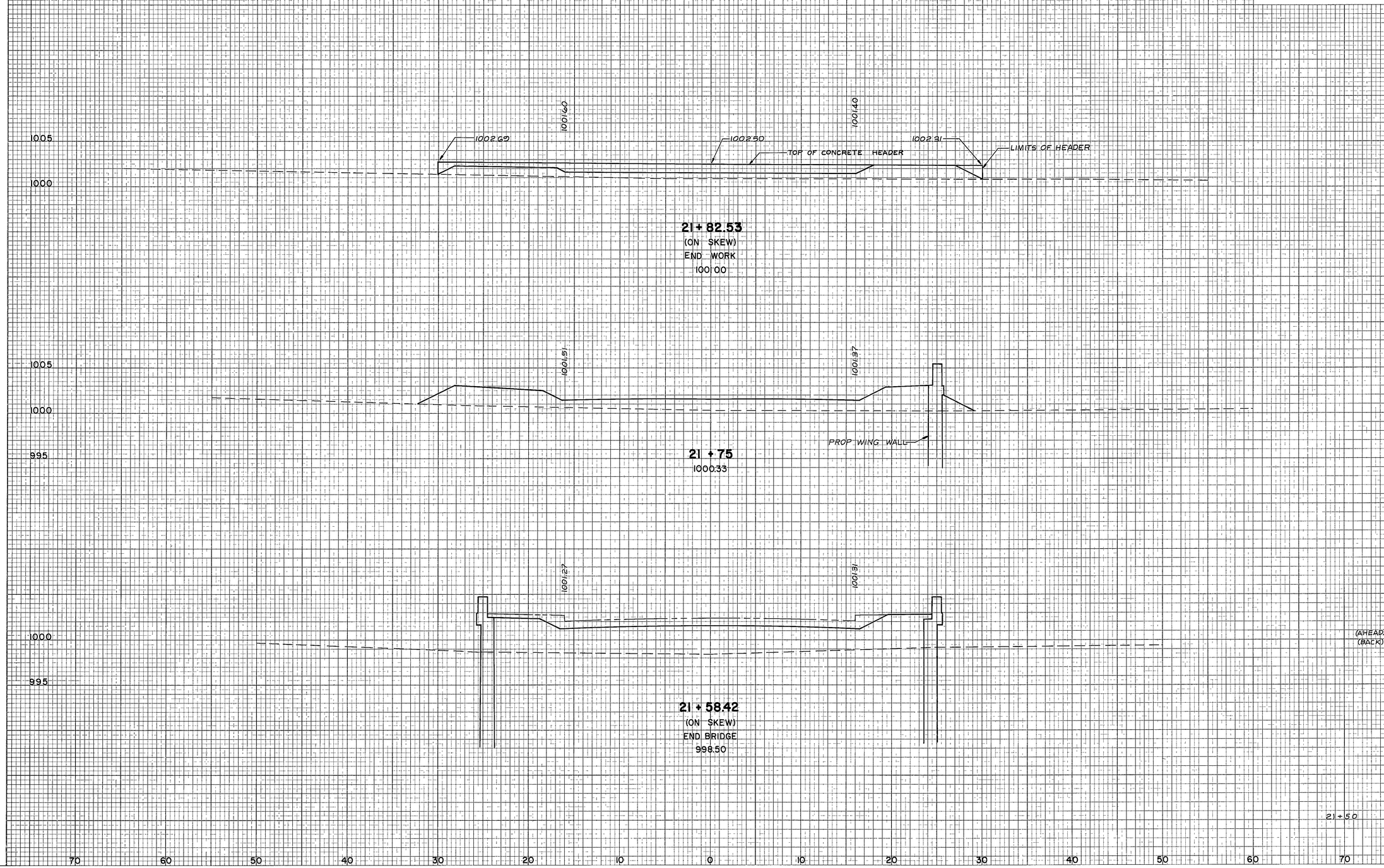
THIRD AVE. CROSS SECTIONS STA 20 + 82 TO STA. 21 + 50

KELLY AVENUE
PART I

11/39

SEEDING	
END WIDTH	SQ YDS

ADACHE-CIUNI-LYNN INC
CALC BY DATE
CHKD BY DATE



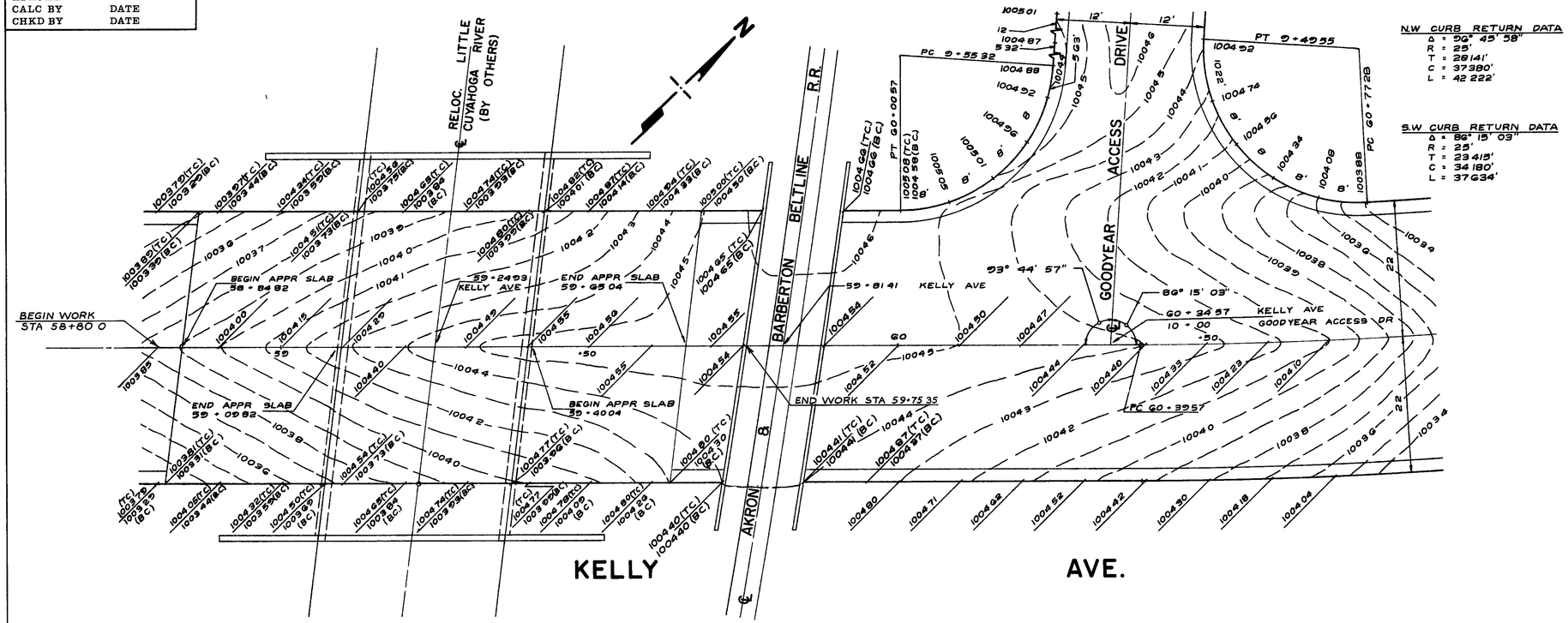
	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
	0	50		
			0	19
	0	86		
			0	71
(AHEAD)	0	145		
(BACK)	329	0		
			103	0
21+50	329	0		

1980-032-00

THIRD AVE. CROSS SECTIONS STA. 21 + 58.42 TO STA. 21 + 82.54

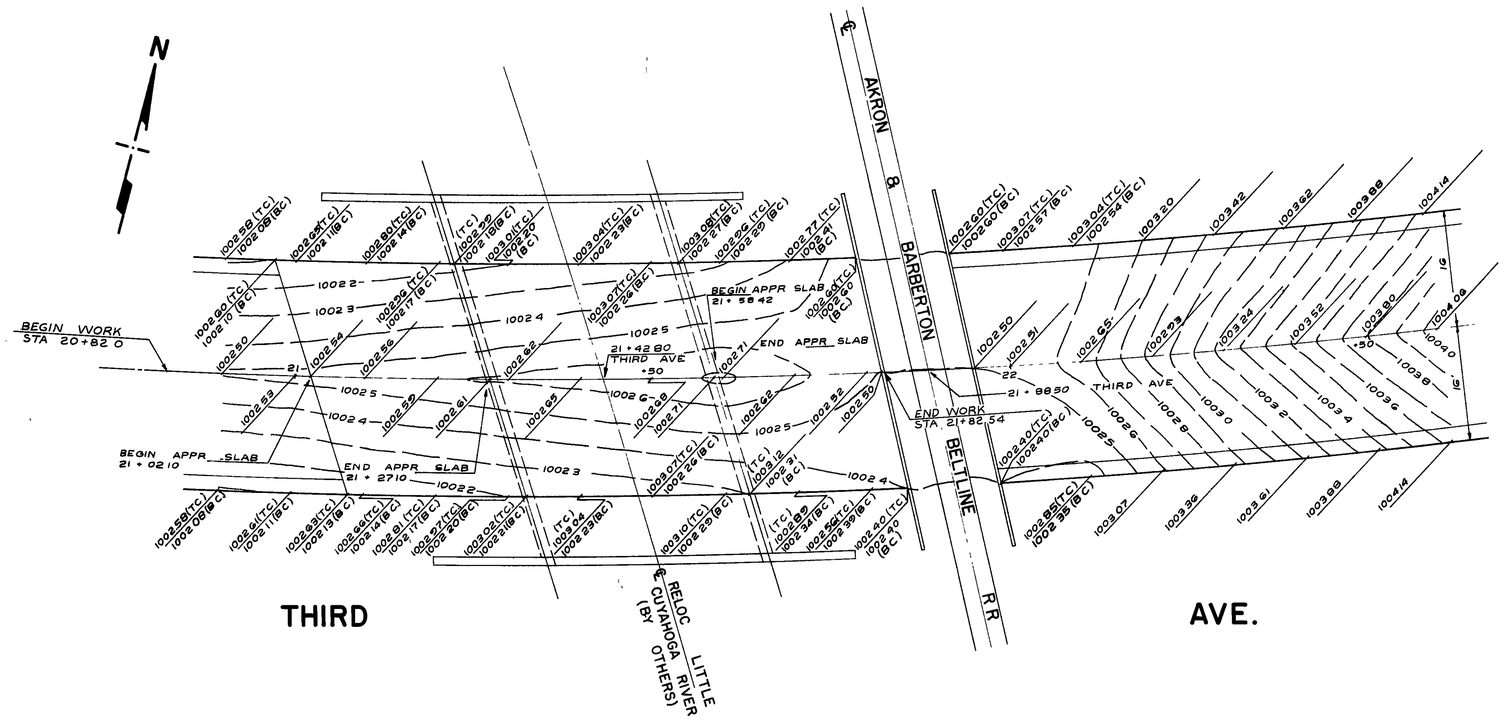
ADACHE CIUNI LYNN ASSOC
CALC BY DATE
CHKD BY DATE

KELLY AVENUE
PART I



N.W CURB RETURN DATA
Δ = 90° 45' 58"
R = 25'
T = 28141'
C = 37980'
L = 42 222'

S.W CURB RETURN DATA
Δ = 86° 15' 03"
R = 25'
T = 23415'
C = 34180'
L = 37634'



NOTES

1) TC INDICATES TOP OF CURB ELEVATION
BC INDICATES BOTTOM OF CURB ELEVATION
ALL OTHER ELEVATIONS AND CONTOURS ARE TO TOP OF FINISHED PAVEMENT

2) THIS CONTRACT DOES NOT INCLUDE ANY WORK ON PAVING, CURB AND GUTTER, APPROACH SLABS, OR SIDEWALKS

3) THE SUBGRADE SHALL BE BUILT AND COMPACTED TO THE ELEV OF THE BOTTOM OF THE FUTURE 301 COURSE. THIS IS 1.00 FEET BELOW THE PAVEMENT ELEVATIONS SHOWN

4) THE 6" x 18" HEADERS ON THE BRIDGE SIDE OF THE ABBL RR ARE TO BE CONSTRUCTED FLUSH WITH THE FUTURE PAVEMENT.

5) SEE SHT NO. 5 & 6 FOR LIMITS OF WORK

6) SCALE: 1" = 10'

NOTE
THIS SHEET IS FOR REFERENCE PURPOSES ONLY.

1980-032-00

ACL form no 1

Acc No. 17711
DWG No. A-9535

GRADING DETAILS

SEEDING	
END WIDTH	SQ YDS

ADACHE - CIUNI - LYNN INC
CALC BY DATE
CHKD BY DATE

KELLY AVENUE
PART I

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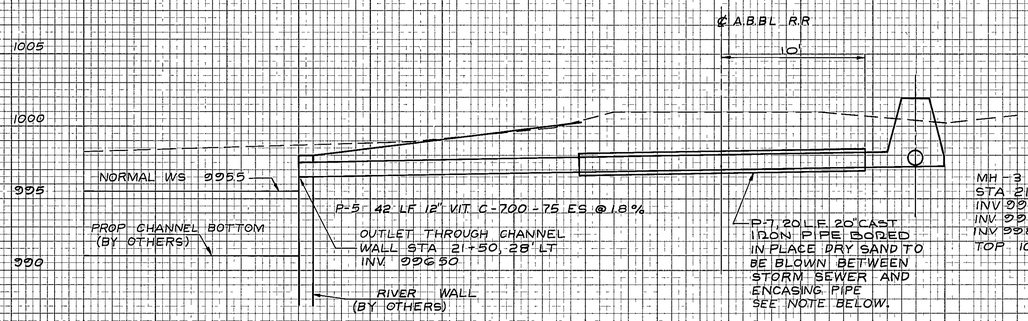
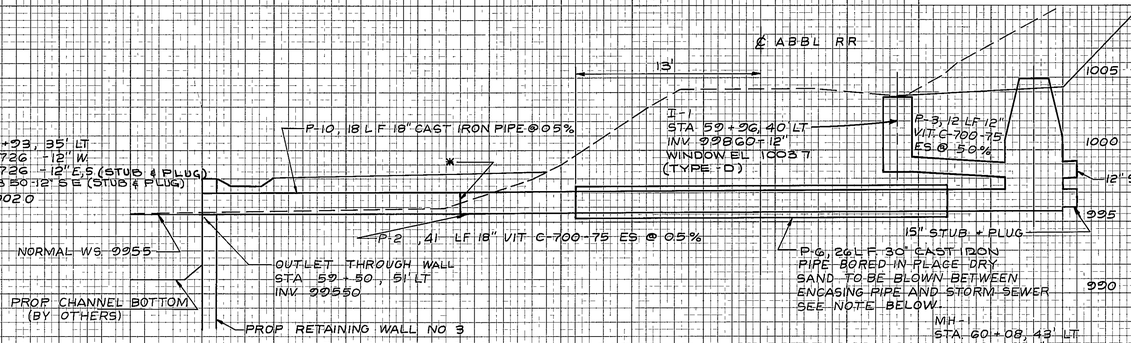
	END AREA		VOLUME	
	CUT	FILL	CUT	FILL



MH - 3
STA 21+93, 35' LT
INV 997.26 - 12" W.
INV 997.26 - 12" E.S (STUB & PLUG)
INV 998.50 - 12" S.E (STUB & PLUG)
TOP 1002.0

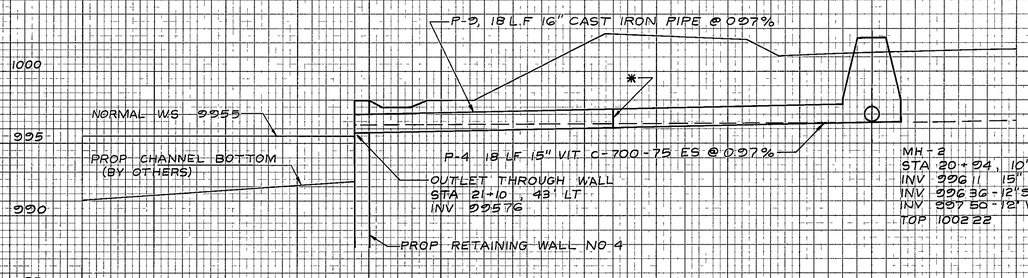


MH - 1
STA 60+08, 43' LT
INV 995.80 - 18" S.W.
INV 998.00 - 12" S.W.
INV 996.00 - 12" N.E. (STUB + PLUG)
INV 998.00 - 12" N.E. (STUB + PLUG)
INV 994.05 - 15" E. (STUB + PLUG)
TOP 1005.0

NOTE

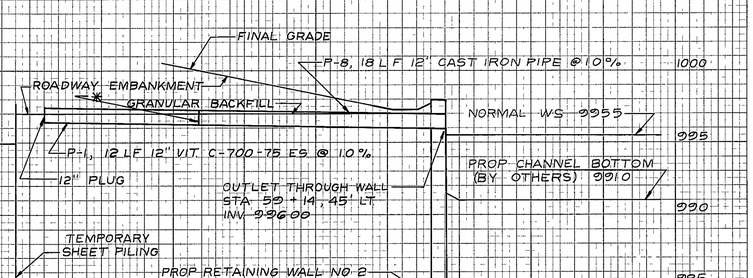
ALL COSTS FOR FURNISHING AND INSTALLING THE CAST IRON SLEEVES, INCLUDING ALL BORING OPERATIONS AND SAND FILLER SHALL BE INCLUDED FOR PAYMENT WITH ITEM 22D OR 22E, CAST IRON PIPE SEWER. THE CONTRACTOR SHALL SUBMIT HIS METHOD OF BORING TO THE ENGINEER AND TO THE A.B.&L. RR FOR APPROVAL PRIOR TO COMMENCING THIS WORK.

* - CONTRACTOR SHALL PROVIDE SUITABLE COUPLINGS TO JOIN THE VITRIFIED PIPE TO THE CAST IRON COUPLINGS. SHALL NOT BE INSTALLED UNTIL APPROVED BY THE ENGINEER. COST OF COUPLINGS IS INCLUDED IN THE UNIT PRICE BID FOR PIPE



MH - 2
STA 20+94, 10' LT
INV 996.11 15" N
INV 996.36 - 12" S.W. (STUB & PLUG)
INV 997.50 - 12" W (STUB & PLUG)
TOP 1002.22

W.S. EXIST RIVER

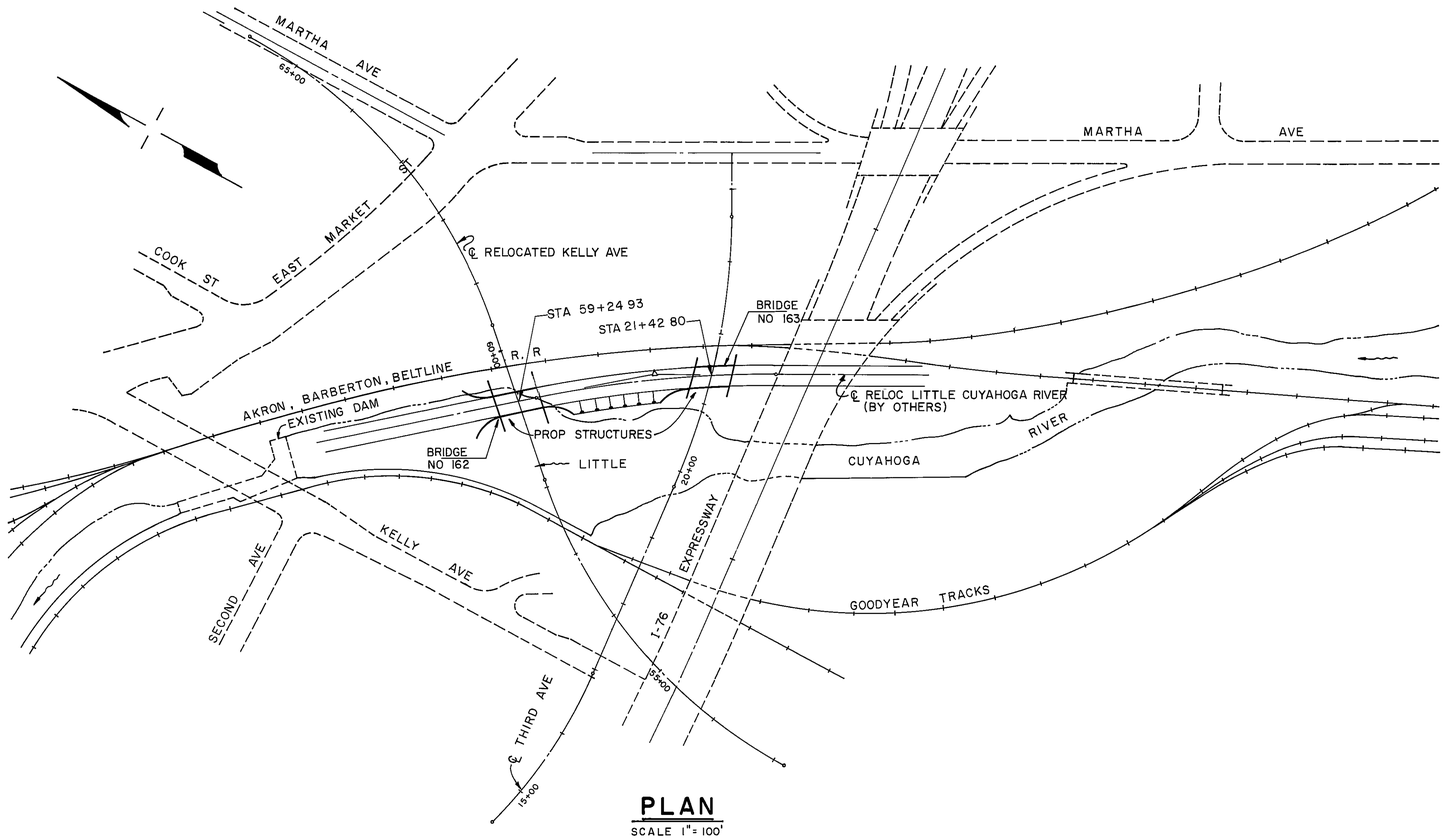


DRAINAGE PROFILES

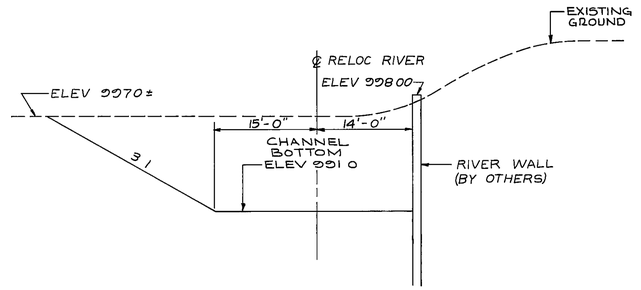
ACC. No 17711
DWG No A-9534

1980-032-00

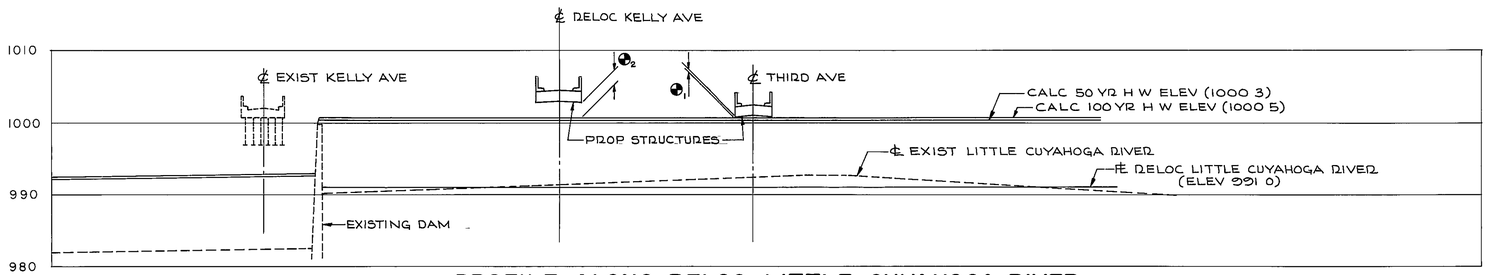
KELLY AVENUE
PART I



PLAN
SCALE 1"= 100'



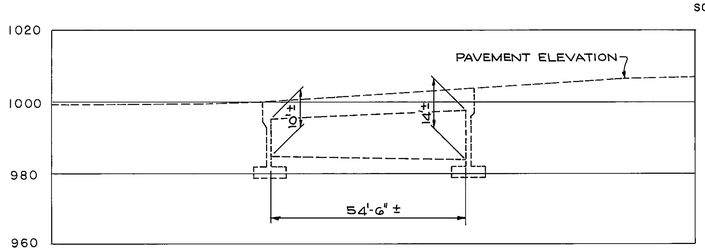
TYPICAL SECTION
RELOCATED LITTLE CUYAHOGA RIVER
BETWEEN THIRD AVE & RELOC KELLY AVE
NO SCALE



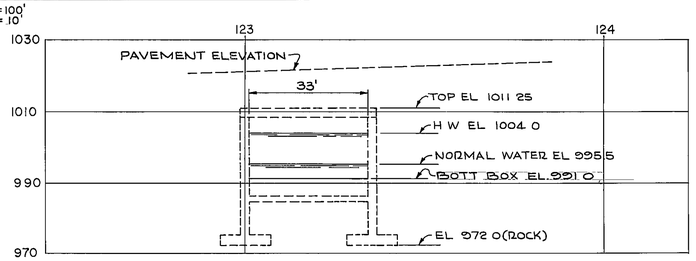
PROFILE ALONG RELOC. LITTLE CUYAHOGA RIVER
SCALE HORIZ 1"=100'
VERT 1"=10'

(1) THIRD AVE BRIDGE MIN VERT CLEARANCE
ABOVE 50 YR H W = 013'
ENCROACHMENT ON 100 YR H W = 007'

(2) KELLY AVE BRIDGE MIN VERT CLEARANCE
ABOVE 50 YR H W = 153'
ABOVE 100 YR H W = 133'



PROFILE ALONG ℄ EXISTING KELLY AVE.
400' DOWNSTREAM FROM RELOC KELLY AVE STRUCTURE
SCALE HORIZ 1"= 20'
VERT 1"= 20'



PROFILE ALONG ℄ S. MARTHA AVE.
1300' UP STREAM FROM THIRD AVE STRUCTURE
SCALE HORIZ 1"= 20'
VERT 1"= 20'

HYDRAULIC DATA AT S MARTHA AVE
DESIGN- Q = 2000 CFS
Q 50 = 1500 CFS

CITY OF AKRON

adache - ciuni - lynn associates
CONSULTING ENGINEERS AKRON OHIO 44313

SUPPLEMENTAL SITE PLAN
RELOCATED KELLY AVE AND THIRD AVE OVER
THE RELOCATED LITTLE CUYAHOGA RIVER
CITY OF AKRON BRIDGE NO 162 & 163

DESIGNED	EAF	CHECKED	RDH
DRAWN	JDP	APPROVED	RDH

ACC No. 17711
DWG No A-9533

1980-032-00

ACL form no 1

ADACHE CIUNI LYNN ASSOC
CALC BY DATE
CHKD BY DATE

KELLY AVENUE
PART I

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DESIGN SPECIFICATIONS:

THESE STRUCTURES CONFORM TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 1977, INCLUDING THE 1978 AND 1979 INTERIM SPECIFICATIONS AND THE OHIO "SUPPLEMENT" TO THESE SPECIFICATIONS.

DESIGN DATA:

DESIGN LOADING	- HS 20-44 AND THE ALTERNATE MILITARY LOADING
CONCRETE	- CLASS C - COMPRESSIVE STRENGTH 4000 P.S.I. FOR SUBSTRUCTURE
	- CLASS S - COMPRESSIVE STRENGTH 4500 P.S.I. FOR SUPERSTRUCTURE
REINFORCING STEEL	- ASTM A615, A616 OR A617 - GRADE 60, MINIMUM YIELD STRENGTH 60,000 P.S.I.
CONCRETE FOR PRESTRESSED CONCRETE BEAMS	- MINIMUM CONCRETE STRENGTH AT 28 DAYS: F'_C = 5500 P.S.I. UNIT STRESS: 2200 P.S.I. COMPRESSION 444 P.S.I. TENSION
	- MINIMUM CONCRETE STRENGTH AT TIME OF STRAND RELEASE: F'_{CI} = 4000 P.S.I.
PRESTRESSING STRAND	- 1/2" DIAMETER, 270,000 P.S.I. UNCOATED SEVEN WIRE STRESS-RELIEVED STRANDS, ASTM A416, INITIAL STRESS = 0.70 F'_S = 28,900 POUNDS PER STRAND.

REFERENCE SHALL BE MADE TO THE FOLLOWING:

STANDARD DRAWING BR-2-67	REVISED 10-15-71
STANDARD DRAWING PSBD-1-71	DATED 9-01-71
SUPPLEMENTAL SPECIFICATION 838	DATED 1-13-77

CONCRETE COVER FOR REINFORCING BARS:

MINIMUM CONCRETE COVER FOR ALL REINFORCING BARS SHALL BE 2 1/2" UNLESS SHOWN OTHERWISE. MINIMUM CONCRETE COVER FOR ALL REINFORCING BARS IN FOOTINGS SHALL BE 3".

UTILITY LINES:

ALL EXPENSE INVOLVED IN RELOCATING THE AFFECTED PRIVATE UTILITY LINES SHALL BE BORNE BY THE OWNERS. THE CONTRACTOR AND OWNERS ARE REQUESTED TO COOPERATE BY ARRANGING THEIR WORK IN SUCH A MANNER THAT INCONVENIENCE TO BOTH BE HELD TO A MINIMUM.

SOIL BORING DATA:

SOIL BORINGS HAVE BEEN TAKEN AT THE PROPOSED BRIDGE AND RETAINING WALL LOCATIONS. THE SOIL BORING LOGS ARE AVAILABLE FOR INSPECTION AT THE OFFICE OF THE BUREAU OF ENGINEERING OF THE CITY OF AKRON. IT IS STRONGLY RECOMMENDED THAT THE CONTRACTOR EXAMINE THESE BORING LOGS PRIOR TO COMMENCING ANY CONSTRUCTION OPERATIONS.

ITEM 499, CONCRETE - GENERAL

THE COARSE AGGREGATE SPECIFICATION 703.02 LISTED UNDER ITEM 499 CONCRETE-GENERAL OF THE 1979 ODOT CONSTRUCTION AND MATERIAL SPECIFICATION SHALL BE MODIFIED TO DELETE WASHED GRAVEL.

LIMITS OF WORK.

THIS CONTRACT ENTAILS THE CONSTRUCTION OF THE TWO BRIDGES AND FOUR RETAINING WALLS DETAILED HEREIN. THE CONTRACTOR SHALL BE MADE AWARE THAT THE SUBDRAINAGE FOR THE ASPHALT SURFACE COURSE, THE MEMBRANE WATERPROOFING, THE ASPHALT WEARING COURSE AND THE APPROACH SLABS ARE NOT INCLUDED IN THIS CONTRACT.

ITEM SPECIAL, WATERPROOFING SEALANT:

DESCRIPTION - THIS ITEM SHALL CONSIST OF FURNISHING AND APPLYING A WATERPROOFING SEALANT TO THE SIDEWALKS, PARAPETS, AND EXTERIOR BEAM FACES OF THE TWO BRIDGES IN THIS CONTRACT IN ACCORDANCE WITH THESE SPECIFICATIONS.

MATERIALS - THE WATERPROOFING SEALANT SHALL BE "CHEM - TRETE SILANE", DISTRIBUTED BY MAGCOBAR DIVISION, DRESSER INDUSTRIES, INC., HOUSTON, TEXAS, AND LOCALLY BY MIDWEST CHEMICAL CONSULTANTS, INC., P. O. BOX 551, WOOSTER, OHIO (PHONE 216-263-0688).

CONSTRUCTION REQUIREMENTS -

1 - SURFACE PREPARATION: THE SURFACE TO BE TREATED SHALL BE THOROUGHLY CLEANED TO REMOVE ALL LAITANCE, DIRT, GREASE, ASPHALT, OIL, AND OTHER FOREIGN MATERIALS BY THE USE OF SANDBLASTING OR HIGH PRESSURE HOT WATER BLASTING. SANDBLASTING SHALL BE FOLLOWED BY AIR BLAST CLEANING TO REMOVE DUST FROM SURFACES AND OPENED PORES. WATER BLASTING SHALL USE WATER AT A MINIMUM TEMPERATURE OF 160 F AT A MINIMUM NOZZLE PRESSURE OF 1800 P.S.I. SURFACES TO BE TREATED MAY BE DAMP, BUT NOT WATER SATURATED WHEN TREATED.

2 - APPLICATION: THE SILANE SOLUTION SHALL NOT BE DILUTED OR ALTERED IN ANY WAY. IT SHALL BE APPLIED DIRECTLY AS SUPPLIED USING LOW PRESSURE, AIRLESS SPRAY EQUIPMENT. THE SPRAY EQUIPMENT SHALL HAVE A MAXIMUM NOZZLE PRESSURE OF 15 P.S.I., USING AN APPARATUS SUCH AS A GARDEN OR FORM OIL SPRAYER. THE SPRAY EQUIPMENT SHALL BE FREE OF ALL FOREIGN MATTER, INCLUDING WATER, PRIOR TO FILLING WITH THE SILANE SOLUTION.

THE CONCRETE SHALL HAVE CURED A MINIMUM OF 28 DAYS PRIOR TO APPLYING THE SOLUTION. THE SOLUTION SHALL NOT BE APPLIED AT TEMPERATURES BELOW 40 F OR WHEN THE TEMPERATURE IS EXPECTED TO FALL BELOW 32 F WITHIN 12 HOURS AFTER APPLICATION. ADJACENT ASPHALT SURFACES SHALL BE PROTECTED FROM SPILLAGE AND HEAVY OVERSPRAY. COMPATIBILITY WITH JOINT SEALERS SHALL BE VERIFIED BY THE JOINT SEALER MANUFACTURER.

THE SOLUTION SHALL BE APPLIED AT A RATE OF ONE GALLON PER 175 TO 200 SQUARE FEET OF SURFACE. TRAFFIC OF ALL KINDS SHALL BE AVOIDED ON TREATED SURFACES FOR AT LEAST 24 HOURS AFTER APPLICATION.

THE SILANE SOLUTION IS FLAMMABLE. DO NOT USE NEAR HEAT, SPARKS, OR OPEN FLAME. SMOKING SHALL BE PROHIBITED IN THE VICINITY OF APPLICATION AND STORAGE AREAS. FOLLOW NORMAL PRECAUTIONS AS WITH ANY SOLVENT TYPE MATERIAL.

THE CONTRACTOR SHALL HAVE THE MANUFACTURER'S TECHNICAL REPRESENTATIVE PRESENT DURING THE INITIAL APPLICATION, AND SHALL GIVE ADVANCE NOTICE OF THE INTENDED DATE OF APPLICATION.

3 - METHOD OF MEASUREMENT: THE QUANTITY TO BE PAID FOR SHALL BE THE ACTUAL NUMBER OF SQUARE YARDS OF SURFACE TREATED, INCLUDING SURFACE PREPARATION.

4 - BASIS OF PAYMENT: PAYMENT WILL BE MADE AT THE CONTRACT UNIT PRICE BID PER SQUARE YARD FOR "ITEM SPECIAL, WATERPROOFING SEALANT", WHICH PRICE SHALL CONSTITUTE FULL COMPENSATION FOR ALL LABOR, EQUIPMENT, TOOLS, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM ACCORDING TO THESE SPECIFICATIONS.

FOUNDATION BEARING PRESSURE:

RETAINING WALL FOOTINGS ARE DESIGNED FOR A MAXIMUM BEARING PRESSURE OF 1.39 TONS / SQ. FT.

CAMBER AND DEAD LOAD DEFLECTIONS:

	BRIDGE NO. 162	BRIDGE NO. 163
CALCULATED CAMBER AT TIME OF PAVING, INCLUDING ALLOWANCE FOR CAMBER GROWTH DUE TO CREEP	3/4"	3/4"
CALCULATED DEFLECTION DUE TO WEIGHT OF SURFACE COURSE AND RAILING, SIDEWALKS, ETC.	1/16"	1/16"
CAMBER AT CENTER OF SPANS REQUIRED FOR CREST VERTICAL CURVE IS	3/16"	0"
NET FINAL CAMBER	NOTE (1)	NOTE (2)

(1) NET FINAL CAMBER OF BEAMS IS 11/16". THIS IS 1/2" IN EXCESS OF THE AMOUNT REQUIRED TO PLACE THE TOP OF THE BEAM PARALLEL TO PROFILE GRADE. THIS EXCESS AMOUNT SHALL BE COMPENSATED FOR BY THICKENING THE 403 LEVELING COURSE FROM 1-1/4" AT CENTER OF SPAN TO 1-3/4" AT ENDS OF SPAN.

(2) NET FINAL CAMBER OF BEAMS IS 11/16". THIS IS 11/16" IN EXCESS OF THE AMOUNT REQUIRED TO PLACE THE TOP OF THE BEAM PARALLEL TO PROFILE GRADE. THIS EXCESS AMOUNT SHALL BE COMPENSATED FOR BY THICKENING THE 403 LEVELING COURSE FROM 1-1/4" AT CENTER OF SPAN TO 1-15/16" AT ENDS OF SPAN.

THE CAMBER AND DEFLECTION DATA IS GIVEN FOR REFERENCE PURPOSES ONLY. THE ASPHALT WEARING COURSE IS NOT A PART OF THIS CONTRACT, AND ANY REFERENCE TO THIS ITEM SHOULD BE IGNORED.

RAILROAD AERIAL LINES:

RAILROAD AERIAL LINES WILL BE RELOCATED BY THE RAILROAD. THE CONTRACTOR SHALL USE ALL PRECAUTIONS NECESSARY TO SEE THAT THE LINES ARE NOT DISTURBED DURING THE CONSTRUCTION STAGE AND SHALL COOPERATE WITH THE RAILROAD IN THE RELOCATION OF THESE LINES. THE COST OF THE RELOCATION SHALL BE INCLUDED IN THE RAILROAD FORCE ACCOUNT WORK.

EXPOSED CONCRETE CORNERS:

ALL EXPOSED CONCRETE CORNERS SHALL BE CONSTRUCTED WITH A 3/4" CHAMFER, UNLESS OTHERWISE NOTED.

CITY OF AKRON

adache · ciuni · lynn associates
CONSULTING ENGINEERS AKRON OHIO 44313

STRUCTURAL GENERAL NOTES

CITY OF AKRON BRIDGE Nº'S 162 & 163

DESIGNED	EAF	CHECKED	RDH
DRAWN	JDP	APPROVED	RDH.

Acc No 17711
DWG No. A-9532

68-032-00

ACL form no 1

ITEM SPECIAL - EPOXY COATED REINFORCING STEEL

DESCRIPTION: THIS ITEM SHALL CONSIST OF FURNISHING AND PLACING IN CONCRETE, EPOXY COATED REINFORCING STEEL OF THE QUALITY, TYPE, SIZE AND QUANTITY DESIGNATED.
ALL SECTIONS OF SECTION 509, REINFORCING STEEL, OF THE CMS SHALL APPLY, EXCEPT AS HEREIN DESCRIBED.
COATING PROCESS: THE EPOXY COATING SHALL BE AN ORGANIC POWDERED EPOXY APPLIED BY THE ELECTROSTATIC SPRAY METHOD AS SPECIFIED BY THE COATING SUPPLIER SUBJECT TO THE PROVISIONS AND PROCEDURES WHICH FOLLOW. PATCHING MAY BE DONE BY APPLICATION OF AN APPROVED LIQUID EPOXY MATERIAL.
COATING AND PATCHING MATERIAL: ALL COATING AND PATCHING MATERIAL SHALL BE PREQUALIFIED IN CONFORMANCE WITH SPECIFICATIONS OUTLINED IN ATTACHMENT A TO THE FEDERAL HIGHWAY ADMINISTRATION NOTICE N5080.48, DATED MARCH 30, 1976. PREQUALIFICATION SHALL BE BY A QUALIFIED INDEPENDENT TESTING LABORATORY, WHICH SHALL CERTIFY AS TO THE ACCEPTABILITY OF THE MATERIAL AND SHALL MAKE AVAILABLE THE RESULTS OF THE PREQUALIFICATION TESTS, OR BY A STATE LABORATORY.
THE COATING AND PATCHING MATERIAL SHALL BE OF THE SAME COMPOSITION AND QUALITY AS THAT APPROVED BY PREQUALIFICATION.
THE COATING MANUFACTURER SHALL PROVIDE WRITTEN CERTIFICATION TO THE APPLICATOR THAT THE COATING AND PATCHING MATERIAL IS THE SAME AS THAT PREQUALIFIED, AND SHALL SPECIFY THE THICKNESS OF THE MATERIALS UNDER WHICH THE PREQUALIFICATION WAS APPROVED.
THE COATING APPLICATOR SHALL SUPPLY THE CITY OF AKRON, BUREAU OF ENGINEERING, WITH A REPRESENTATIVE SAMPLE OF 8 OUNCES OF EACH LOT OF COATING MATERIAL USED. THE SAMPLE SHALL BE PACKAGED IN TWO INDIVIDUAL AIR TIGHT CONTAINERS OF 4 OUNCES EACH, IDENTIFIED BY LOT NUMBER. THE APPLICATOR SHALL ALSO SUPPLY THE BUREAU OF ENGINEERING WITH TWO REPRESENTATIVE SAMPLES OF ONE PINT EACH OF THE PATCHING MATERIAL IDENTIFIED BY LOT NUMBER. IF THE FIELD LOT DIFFERS FROM THE SHOP LOT TWO PINT SAMPLES OF THE FIELD LOT SHALL ALSO BE SUPPLIED TO THE BUREAU OF ENGINEERING.
SURFACE PREPARATION: THE MANUFACTURER SHALL SPECIFY THE METHOD AND GRADE OF METAL SURFACE PREPARATION PRESCRIBED FOR THE PREQUALIFICATION OF THE COATING AND PATCHING PRODUCTS.
THE COATING AND PATCHING SHALL BE APPLIED TO THE CLEANED DRY SURFACE AS SOON AS POSSIBLE AFTER CLEANING AND BEFORE ANY VISIBLE OXIDATION OF THE SURFACE OCCURS, BUT IN NO CASE SHALL MORE THAN EIGHT HOURS ELAPSE.
ALL TRACES OF GRIT AND DUST FROM THE BLASTING SHALL BE REMOVED.
COATING THICKNESS: THE FILM THICKNESS AFTER CURING SHALL BE THE SAME AS THE AVERAGE OF THE PREQUALIFICATION THICKNESS AND SHALL NOT DEVIATE BY MORE THAN ±30 PERCENT OR ±2 MILS, WHICHEVER IS LESS. THICKNESS OF THE FILM SHALL BE MEASURED USING ASTM G 12-72T.
COATING CURE: THE COATING APPLICATOR SHALL CHECK EACH PRODUCTION LOT, USING THE METHOD HE HAS FOUND MOST EFFECTIVE FOR MEASURING CURE, AND SHALL CERTIFY THAT THE ENTIRE PRODUCTION LOT OF COATED BARS SUPPLIED IS IN THE FULLY CURED CONDITION.
CONTINUITY OF COATING: THE COATING SHALL BE CHECKED VISUALLY AFTER CURE FOR CONTINUITY. IT SHALL BE FREE FROM HOLES, VOIDS, CONTAMINATION, CRACKS AND DAMAGED AREAS.
THE COATING SHALL NOT HAVE MORE THAN TWO HOLIDAYS (PIN HOLES NOT VISIBLE TO THE NAKED EYE) IN ANY LINEAR FOOT OF THE COATED BARS. HOLIDAY CHECKS SHALL BE MADE WITH A 67 1/2 VOLT HOLIDAY DETECTOR IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
FABRICATION: REINFORCING BARS MAY BE COATED EITHER BEFORE OR AFTER FABRICATION.
REGARDLESS OF WHETHER ANY BENT BARS ARE REQUIRED TO BE COATED, FLEXIBILITY TESTS SHALL BE MADE FROM A MINIMUM OF THREE RANDOM SAMPLES OF COATED BAR STOCK FOR EACH LOT OF COATING SUPPLIED.
THE TESTS SHALL BE IN ACCORDANCE WITH SECTION 4.4 OF THE PREQUALIFICATION REQUIREMENTS, EXCEPT THAT THE THERMAL EQUILIBRIUM SHALL BE BETWEEN 20 AND 30 DEGREES C. THE FLEXIBILITY TESTS SHALL BE PERFORMED AND THE MATERIAL APPROVED PRIOR TO SHIPMENT FROM THE COATING PLANT. TESTING SHALL BEGIN DURING AN EARLY STATE OF PRODUCTION.
REPAIR TO THE COATING DAMAGE DURING FABRICATION OF COATING PROCESS SHALL BE MADE BY THE FABRICATOR USING THE COATING MANUFACTURER'S PREQUALIFIED MATERIAL.
HANDLING, SHIPPING AND STORAGE: ALL SYSTEMS FOR HANDLING COATED BARS SHALL HAVE PADDED CONTACT AREAS FREE OF DIRT AND GRIT.
COATED BARS, BUNDLED FOR SHIPPING, SHALL HAVE PADDED SPACERS BETWEEN BARS OR OTHER PROVISION TO PREVENT BAR TO BAR ABRASION. BUNDLING BANDS SHALL BE PADDED.
BUNDLED COATED BARS SHALL BE LIFTED WITH A STRONG BACK,MULTIPLE SUPPORTS OR A PLATFORM BRIDGE TO PREVENT SAGGING ABRASION.
BARS OR BUNDLES SHALL NOT BE DROPPED OR DRAGGED.
COATED BARS SHALL BE STORED, BOTH IN THE SHOP AND IN THE FIELD, ON WOODEN OR PADDED CRIBBING.
THE CONTRACTOR MAY PROPOSE ALTERNATE PRECAUTIONARY MEASURES FOR APPROVAL BY THE ENGINEER.
COATED BAR PLACEMENT: PLASTIC COATED TIE WIRES AND BAR SUPPORTS SHALL BE EMPLOYED TO PROTECT THE COATING FROM PHYSICAL DAMAGE DURING PLACEMENT.
BARS SHALL BE CAREFULLY HANDLED AND INSTALLED SO THAT PATCHING AT THE JOB SITE WILL BE KEPT TO A MINIMUM. WHERE REPAIR IS REQUIRED THE DAMAGED AREAS SHALL BE CLEANED, REPAIRED, AND ADEQUATE CURE TIME ALLOWED BEFORE PLACING CONCRETE. THE INSTALLATION SHALL BE CONSIDERED APPROVED WHEN ALL AREAS OF DAMAGE HAVE BEEN PATCHED.
METHOD OF MEASUREMENT: THE METHOD OF MEASUREMENT OF COATED REINFORCEMENT SHALL BE IN ACCORDANCE WITH 509.11 OF THE CMS BASED ON THE WEIGHT OF THE UNCOATED BARS.
BASIS OF PAYMENT. PAYMENT WILL BE MADE AT CONTRACT PRICE FOR:

ITEM	UNIT	DESCRIPTION
SPECIAL	POUND	EPOXY COATED REINFORCING STEEL

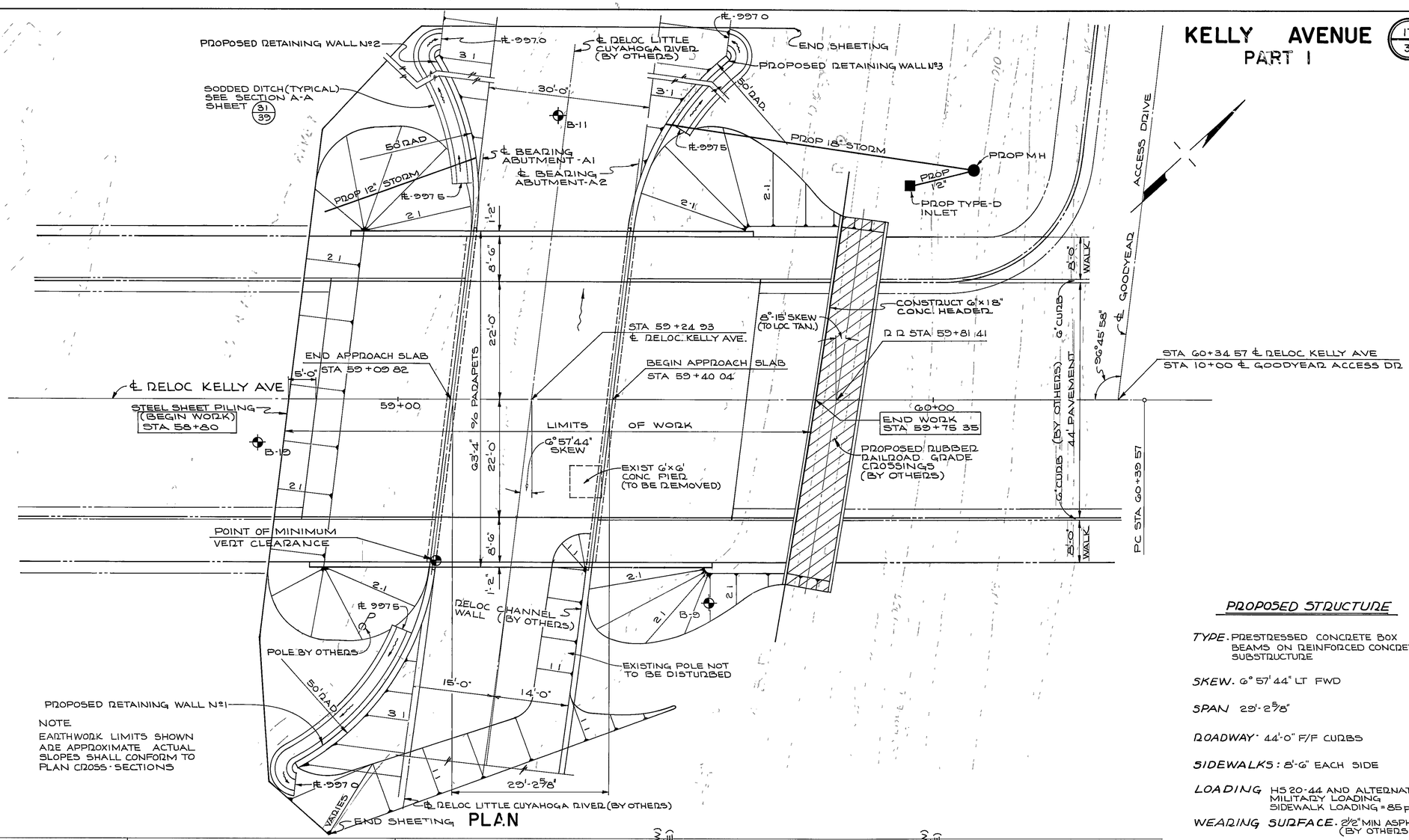
CITY OF AKRON
adache - ciuni - lynn associates
CONSULTING ENGINEERS AKRON OHIO 44313
STRUCTURAL GENERAL NOTES
CITY OF AKRON BRIDGE Nos 162 & 163

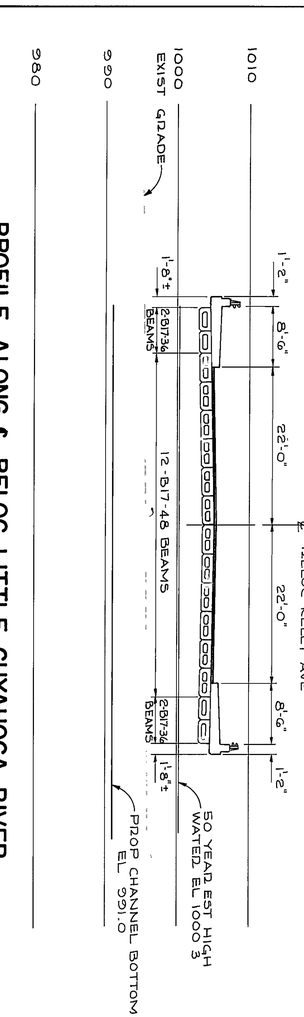
DESIGNED	EAF	CHECKED	RDH
DRAWN	JDP	APPROVED	RDH

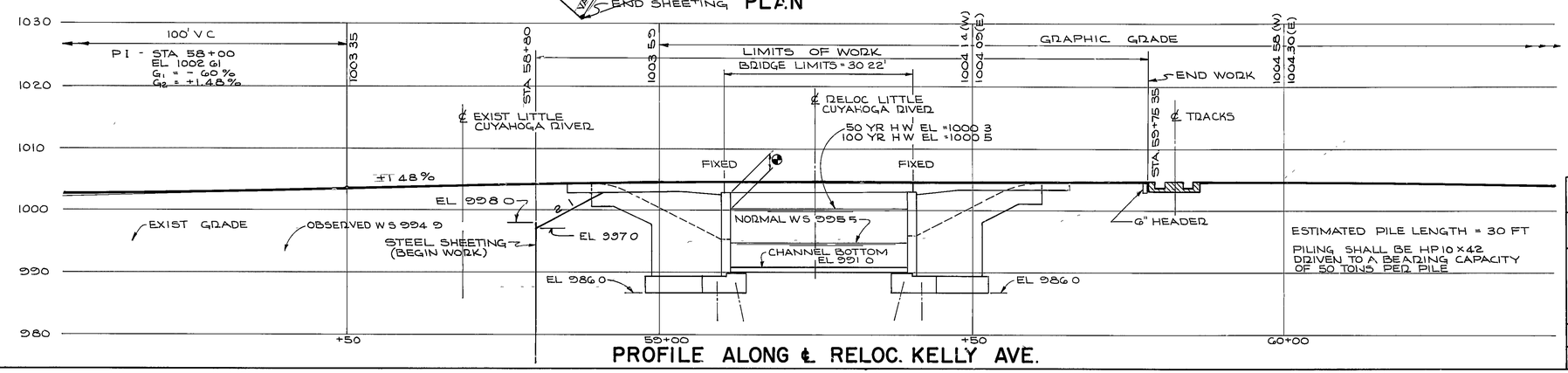
Acc. No 17711
DWG No. A-9531

1980-032-00

KELLY AVENUE
PART I







PROFILE ALONG ℄ RELOC. KELLY AVE.

- ⊕ LOCATION OF SOIL BORING (SEE STRUCTURAL GENERAL NOTES)
- ⊕ POINT OF MIN VERT CLEARANCE

CLEARANCE ABOVE 50 YR FLOOD = 1.53'

CLEARANCE ABOVE 100 YR FLOOD = 1.33'

PROPOSED STRUCTURE

TYPE. PRESTRESSED CONCRETE BOX BEAMS ON REINFORCED CONCRETE SUBSTRUCTURE

SKEW. 6° 57' 44" LT FWD

SPAN 29'-2 5/8"

ROADWAY: 44'-0" F/F CURBS

SIDEWALKS: 8'-6" EACH SIDE

LOADING HS 20-44 AND ALTERNATE MILITARY LOADING SIDEWALK LOADING = 85 psf

WEARING SURFACE. 2 1/2" MIN ASPHALT (BY OTHERS)

APPROACH SLABS: 25' (AS-1-72) (BY OTHERS)

ALIGNMENT: TANGENT

SUPERELEVATION. NONE

SLOPE PROTECTION NONE

TRAFFIC: 1990 A.D.T. 11,550

CITY OF AKRON

adache · ciuni · lynn associates
CONSULTING ENGINEERS AKRON OHIO 44313

SITE PLAN
RELOCATED KELLY AVENUE OVER
RELOCATED LITTLE CUYAHOGA RIVER
CITY OF AKRON - BRIDGE N°162

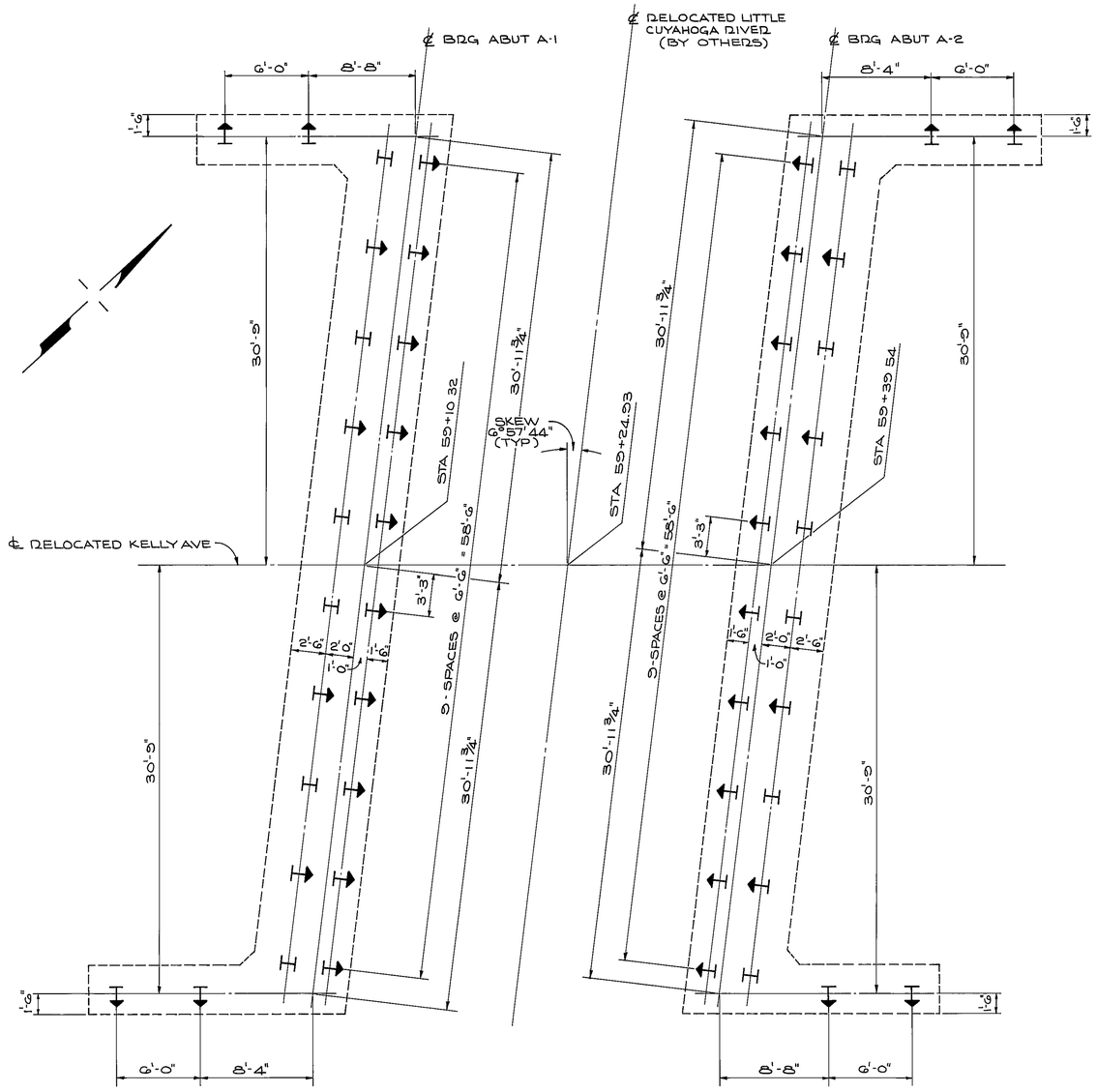
DESIGNED	EAF	CHECKED	RDH	1/7
DRAWN	JDP	APPROVED	RDH	

1980-032-00

Acc. No. 17711
Dwg No A-9530

ACL form no 1

KELLY AVENUE
PART I

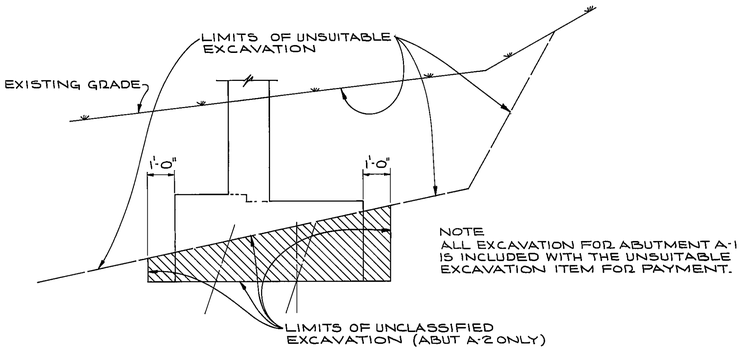


PILE PLAN

ESTIMATED QUANTITIES								
ITEM	TOTAL	UNIT	DESCRIPTION	SUPER	ABUT	GEN'L		
503	LUMP	LSUM	COFFERDAMS, CRIBS AND SHEETING			LS		
503	60	C Y	UNCLASSIFIED EXCAVATION		60			
505	LUMP	LSUM	TEST PILE		LS			
506	LUMP	LSUM	PILE TEST LOAD		L.S			
507	1440	L F	STEEL PILES (HP10x42)		1440			
509	31774	LBS	REINFORCING STEEL, GRADE-60		31774			
510	32	L F	DOWEL HOLES		32			
511	155	C Y	CLASS-C CONCRETE, ABUTMENTS ABOVE FOOTINGS		155			
511	124	C Y	CLASS-C CONCRETE, FOOTINGS		124			
511	26	C Y	CLASS-S CONCRETE, SUPERSTRUCTURE	26				
512	9	S Y	TYPE-"B" WATERPROOFING		9			
513	1401	LBS	STRUCTURAL STEEL, ASTM (A-36)	1401				
514	LUMP	LSUM	FIELD PAINTING OF NEW STRUCTURAL STEEL, SYS-A	LS				
515	4	EACH	PRESTRESSED CONCRETE BOX BEAM (B-17-36) x 30 2.19'	4				
515	12	EACH	PRESTRESSED CONCRETE BOX BEAM (B-17-48) x 30 2.15'	12				
516	32	EACH	1/2"x6"x6" ELASTOMERIC BEARING PADS		32			
516	32	EACH	1/8"x6"x6" ELASTOMERIC BEARING PADS		32			
516	115	S F	1/2" PREFORMED EXPANSION JOINT FILLER		115			
516	6	S F	1" PREFORMED EXPANSION JOINT FILLER		6			
517	150 46	L F	RAILING (CONC PARAPET WITH DOUBLE PIPE RAIL) (AS PER PLAN)	150 46				
518	68	C Y.	POROUS BACKFILL		68			
625	225	L.F.	3" CONDUIT	90	135			
838	4	HOURS	SPECIAL PILE TEST		4			
SPEC	3668	LBS	EPOXY COATED REINFORCING STEEL	1612	2056			
SPEC	205	S Y	WATERPROOFING SEALANT	122	83			

NOTES

1. PILES SHALL BE DRIVEN TO BEDROCK THE BEARING CAPACITY SHALL BE CONSIDERED OBTAINED BY REFUSAL ON HARD BEDROCK OR BY PENETRATING SOFT BEDROCK FOR 6 INCHES (MIN.) WITH A MINIMUM RESISTANCE OF 20 BLOWS PER INCH THE DESIGN LOAD IS 50 TONS PER PILE
2. ALL PILES SHALL BE HP10X42 STEEL BEARING PILES
3. ↦ INDICATES DIRECTION OF 1 3 BATTER
4. ALL PILES SHALL BE CUT OFF AT ELEVATION 988 00
5. ESTIMATED PILE LENGTH = 30'
6. AFTER THE UNSUITABLE MATERIAL HAS BEEN REMOVED FROM BENEATH THE BRIDGE SITE, AND THE EMBANKMENT IS PLACED AND COMPACTED TO ELEVATION 986 0 THE PILING MAY BE DRIVEN AND THE ABUTMENTS CONSTRUCTED



EXCAVATION DETAIL

ABUT. A-2 SHOWN
SEE NOTE FOR ABUT A-1

CITY OF AKRON

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CONSULTING ENGINEERS AKRON OHIO 44313

PILE PLAN & EST. QUANTITIES
RELOCATED KELLY AVENUE OVER
RELOCATED LITTLE CUYAHOGA RIVER
CITY OF AKRON - BRIDGE Nº162

DESIGNED	EAF	CHECKED	RDH	2
DRAWN	JDP	APPROVED	RDH	7

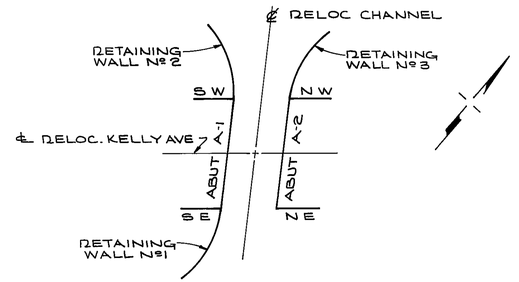
1980-032-00

ACL form no 1

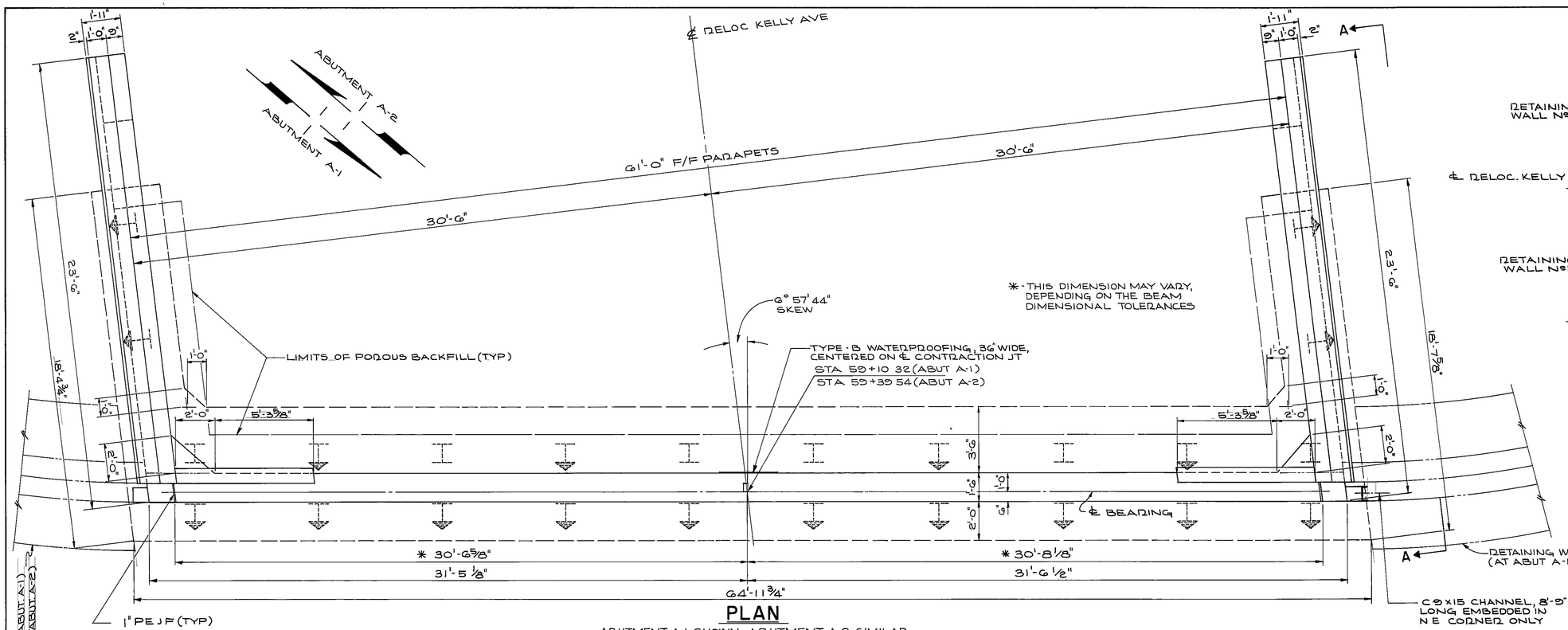
Acc. No. 17711
Dwg No. A-9529

KELLY AVENUE
PART I

19
39

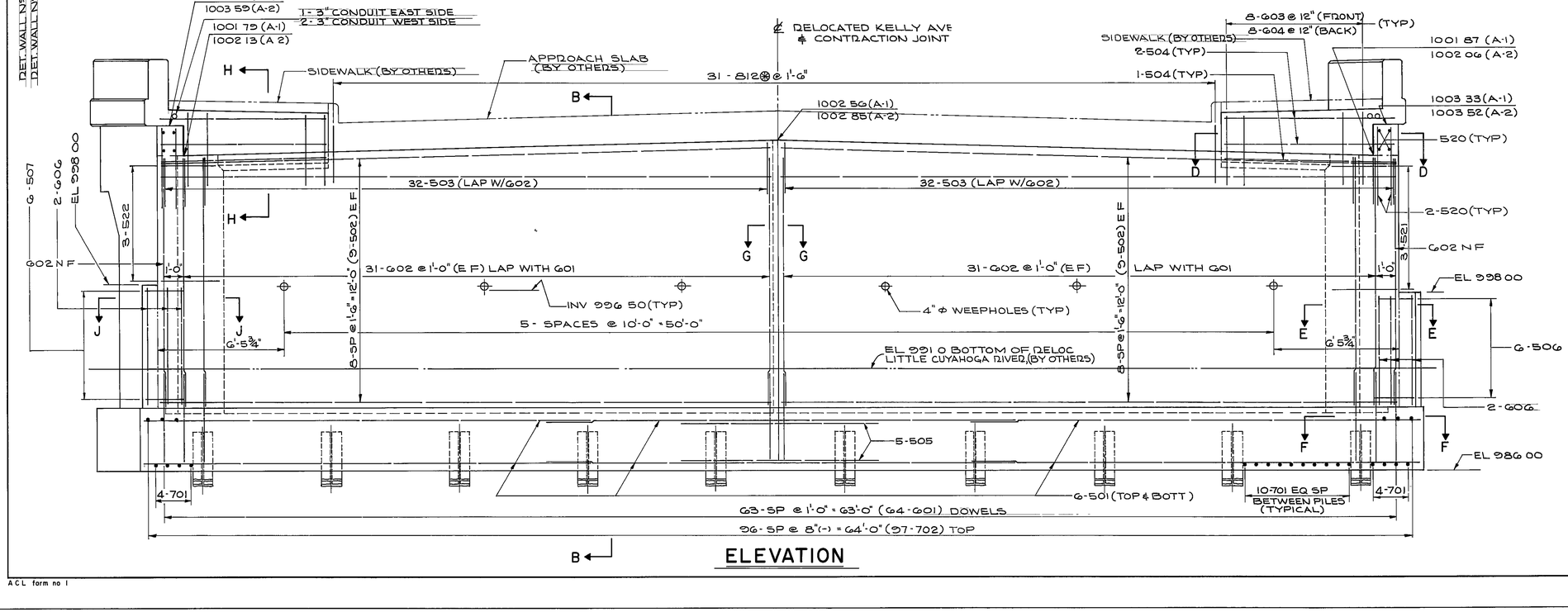


KEY PLAN



PLAN

ABUTMENT A-1 SHOWN, ABUTMENT A-2 SIMILAR EXCEPT AS SHOWN OR NOTED



ELEVATION

NOTES

1. THE PREFIX "A" SHALL BE ADDED TO ALL REINFORCING BAR MARKS IN ABUTMENTS UNLESS OTHERWISE SHOWN.
2. ABBREVIATIONS USED ARE
   - N F = NEAR FACE
   - E F = EACH FACE
   - F F = FAR FACE
3. BACKFILL SHALL NOT BE PLACED ABOVE ELEV 998.0 UNTIL ALL BEAMS ARE SET, TIE RODS ARE TENSIONED, AND DOWELS ARE DRILLED AND GROUTED INTO THE ABUTMENTS
4. POROUS BACKFILL, 2' THICK, SHALL EXTEND UP TO THE PLANE OF THE SUBGRADE BEHIND THE ABUTMENTS AND WINGWALLS WITHIN THE LIMITS SHOWN.
5. REINFORCING STEEL IN THE VICINITY OF THE BRIDGE SEAT SHALL BE ACCURATELY PLACED TO AVOID INTERFERENCE WITH THE DRILLING OF ANCHOR BAR HOLES
6. FOR VIEW A-A AND SECTIONS B-B, D-D, E-E, F-F, G-G, H-H, AND J-J, SEE SHEET Nº 4/7

CITY OF AKRON

adache - ciuni - lynn associates
CONSULTING ENGINEERS — AKRON OHIO 44313

ABUTMENT DETAILS

RELOCATED KELLY AVENUE OVER
RELOCATED LITTLE CUYAHOGA RIVER
CITY OF AKRON - BRIDGE Nº162

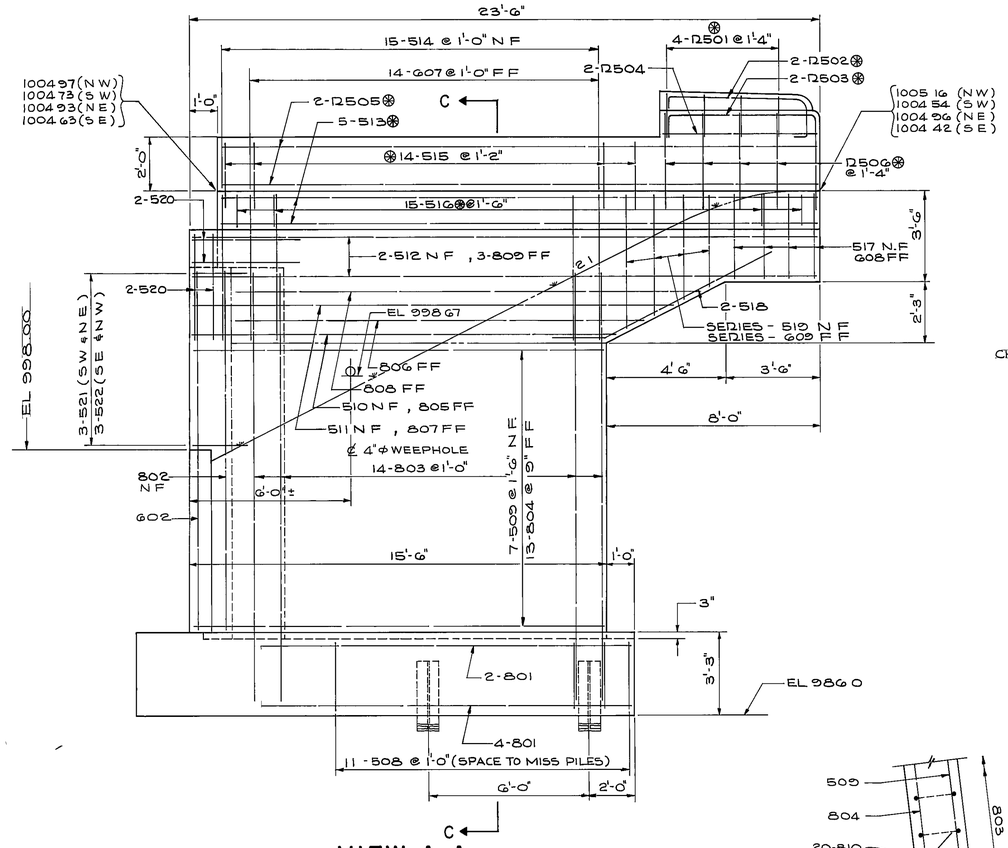
DESIGNED	E.A.F.	CHECKED	R.D.H.	3
DRAWN	J.D.P.	APPROVED	R.D.H.	7

1980-032-00

Acc. No. 17711
Dwg No A-9528

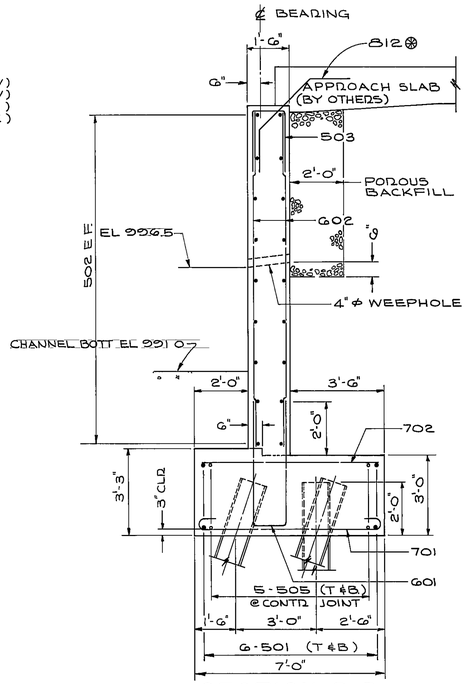
ACL form no 1

KELLY AVENUE
PART I

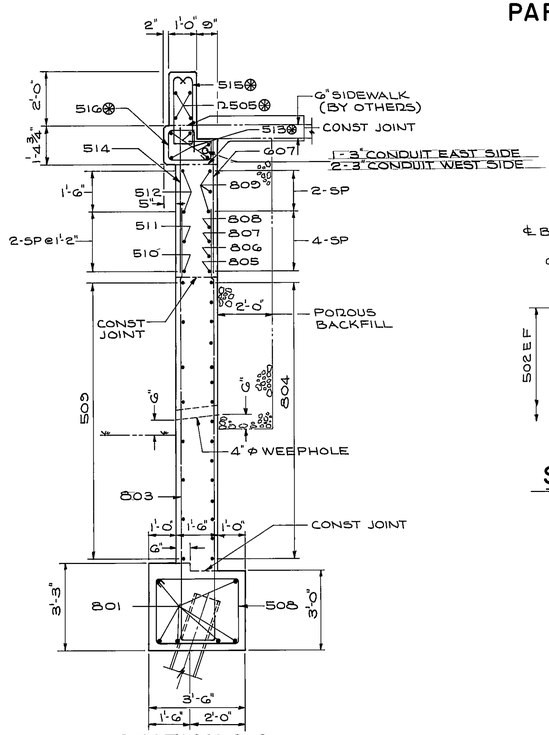


VIEW A-A

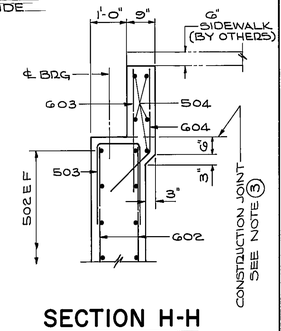
S W WALL SHOWN, ALL OTHER WALLS SIMILAR EXCEPT AS SHOWN OR NOTED



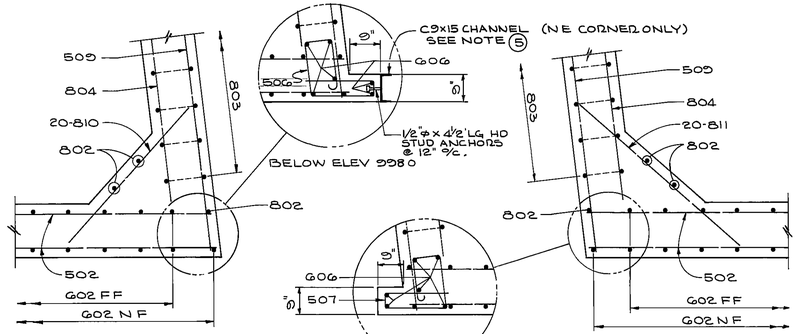
SECTION B-B



SECTION C-C

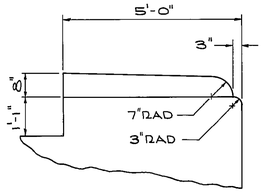


SECTION H-H

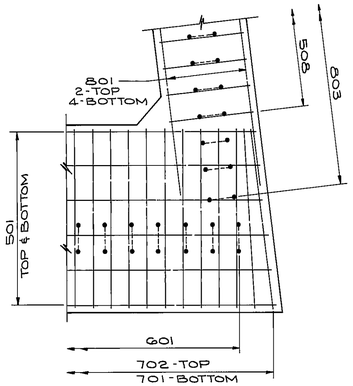


SECTION E-E

SECTION J-J

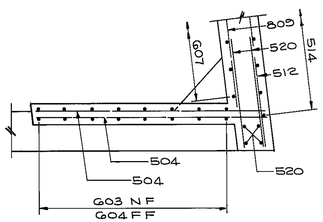


END POST DETAIL



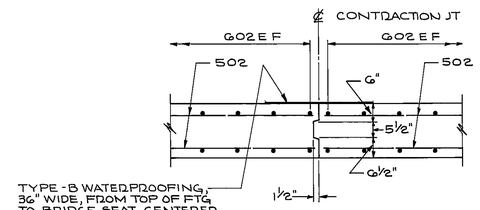
SECTION F-F

S W WINGWALL SHOWN, ALL OTHER WINGWALLS SIMILAR



SECTION D-D

S W WINGWALL SHOWN, ALL OTHER WINGWALLS SIMILAR



TYPE - B WATERPROOFING, 36" WIDE, FROM TOP OF FTG TO BRIDGE SEAT CENTERED ON ℄ CONTRACTION JOINT

SECTION G-G

CONTRACTION JOINT

NOTES

1. FOR RAILING DETAILS SEE SHEET № 6/7
2. FOR ADDITIONAL NOTES, SEE SHT № 3/7
3. CONCRETE ABOVE CONSTRUCTION JOINT SHALL NOT BE POURED UNTIL ALL BEAMS ARE IN PLACE AND GROUTED INTO THE ABUTMENTS
4. ⊛ INDICATES REINFORCING BARS TO BE EPOXY-COATED
5. THE C-9 x 15 CHANNEL WILL BE PAID FOR IN ITEM 511 CLASS C CONCRETE ABUTMENTS ABOVE FOOTING.

CITY OF AKRON

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CONSULTING ENGINEERS AKRON OHIO 44313

ABUTMENT DETAILS
RELOCATED KELLY AVENUE OVER
RELOCATED LITTLE CUYAHOGA RIVER
CITY OF AKRON - BRIDGE № 162

DESIGNED	EAF	CHECKED	RDH	4 / 7
DRAWN	J.DP	APPROVED	RDH	

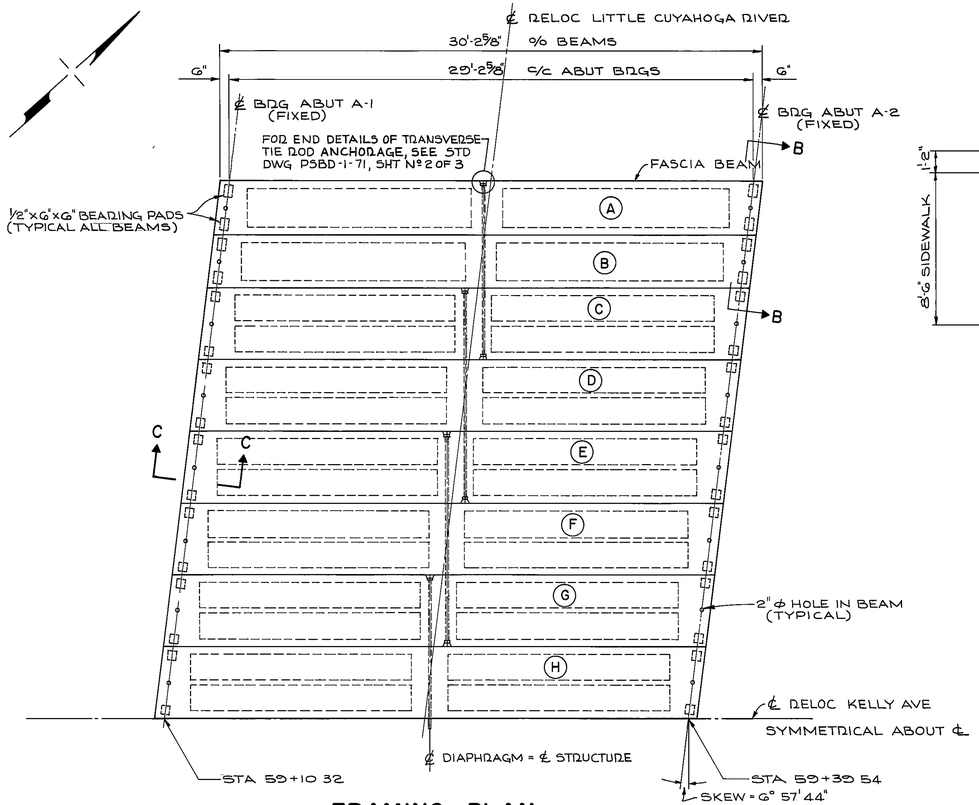
1980-032-00

Acc. No. 17711
Dwg No. A-9527

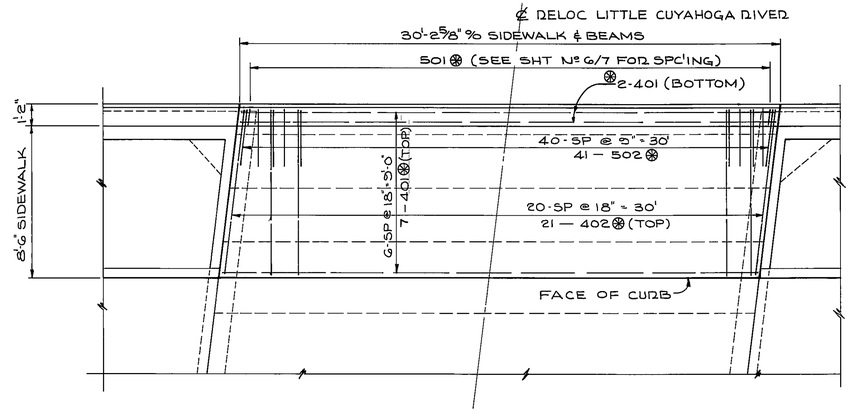
A C L form no 1

KELLY AVENUE
PART I

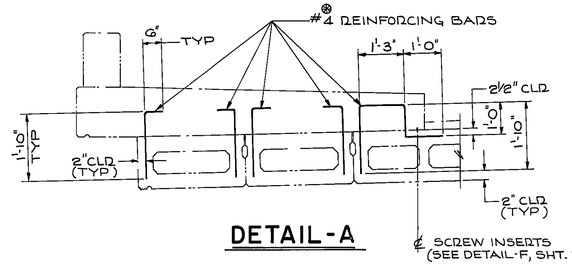
21
39



FRAMING PLAN



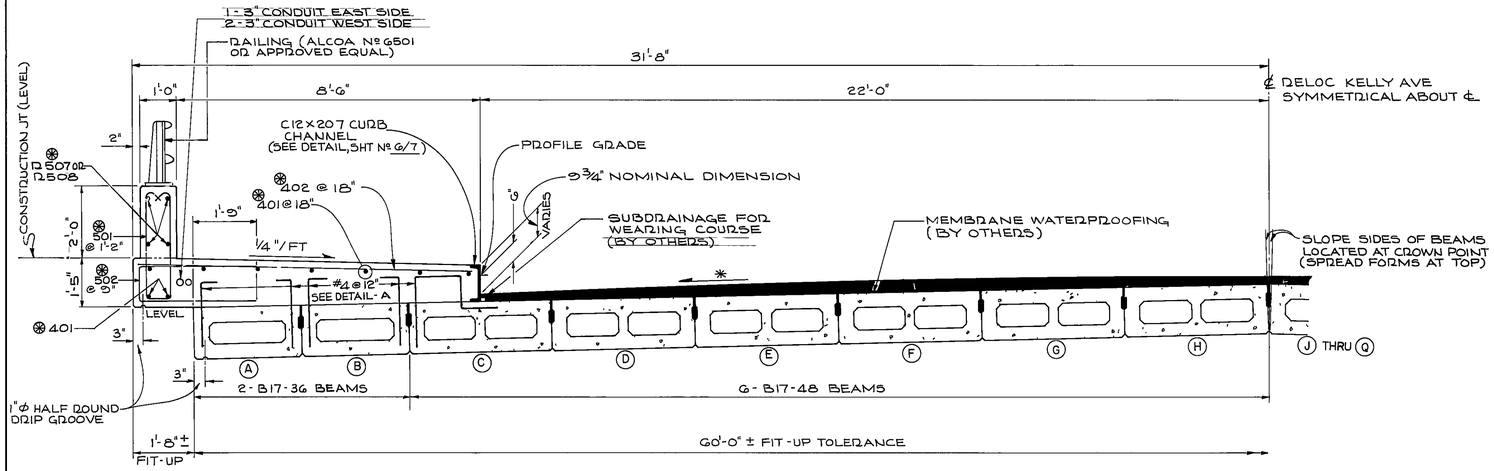
BRIDGE SIDEWALK PLAN



DETAIL-A

NOTES

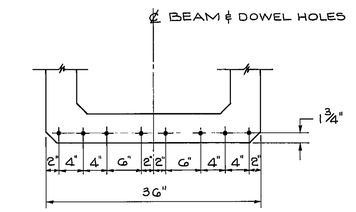
1. END ALL DRIP GROOVES 1'-6" IN FROM END OF BEAMS
2. ⊛ INDICATES REINFORCING BARS TO BE EPOXY COATED
3. SEE STD DWG PSBD-1-71, SHT 1 THRU 3 FOR ADDITIONAL DETAILS
4. ALL REINFORCING STEEL EMBEDDED IN THE PRESTRESSED BEAMS SHALL BE INCLUDED FOR PAYMENT WITH THE COST OF ITEM-515, PRESTRESSED CONCRETE BOX BEAMS
5. FOR SECTIONS B-B AND C-C SEE SHEET Nº 6/7.
6. ALL BEARING PADS SHALL BE 70-DUROMETER NEOPRENE
7. 1/8" THICK BEARING PADS SHALL BE USED AS REQUIRED TO ACCOMMODATE ANY NON-PARALLELISM BETWEEN BOTTOM OF BEAMS AND BRIDGE SEAT
8. THE PREFIX "S" SHALL BE ADDED TO ALL REINFORCING BAR MARKS IN SIDEWALK UNLESS OTHERWISE SHOWN



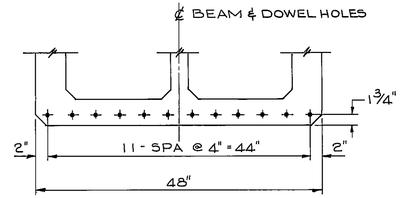
NOTE
OMIT SHEAR KEY ON EXTERIOR FACE OF FASCIA BEAMS

TRANSVERSE SECTION

* - PARABOLIC CROWN, SEE TYPICAL SECTIONS BEAMS TO BE SET ON A STRAIGHT CROSS-SLOPE OF 0.304 IN/FT AND THE PARABOLIC CROWN BUILT INTO THE WEARING SURFACE (BY OTHERS)



STRAND PATTERN FOR B17-36 BEAMS
(8-STRANDS REQ'D)



STRAND PATTERN FOR B17-48 BEAMS
(12 STRANDS REQ'D)

CITY OF AKRON

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CONSULTING ENGINEERS AKRON OHIO 44313

SUPERSTRUCTURE DETAILS
RELOCATED KELLY AVENUE OVER
RELOCATED LITTLE CUYAHOGA RIVER
CITY OF AKRON-BRIDGE Nº 162

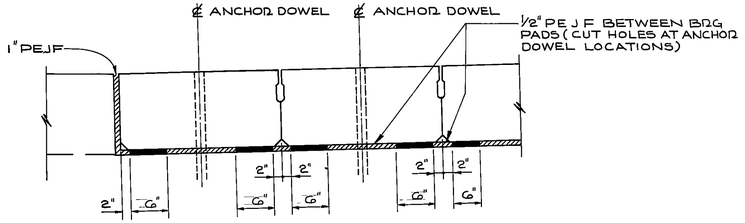
DESIGNED	EAF	CHECKED	RDH	5/7
DRAWN	JDP	APPROVED	RDH	

ACC. No. 17711
DWG No. A-9526

980-032-00

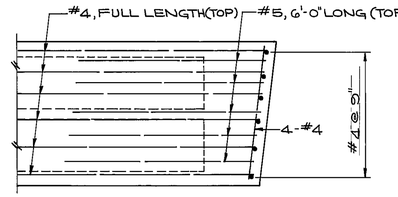
ACL form no 1

KELLY AVENUE
PART I

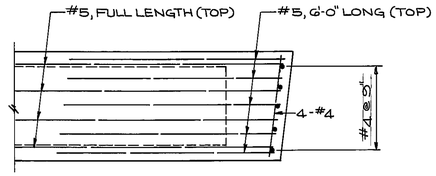


SECTION B-B

(TYPICAL BOTH ABUTMENTS)



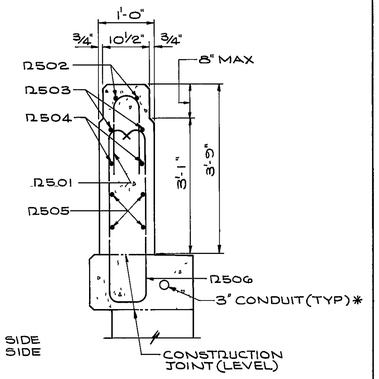
B17-48



B17-36

PLAN OF TYPICAL BEAM END

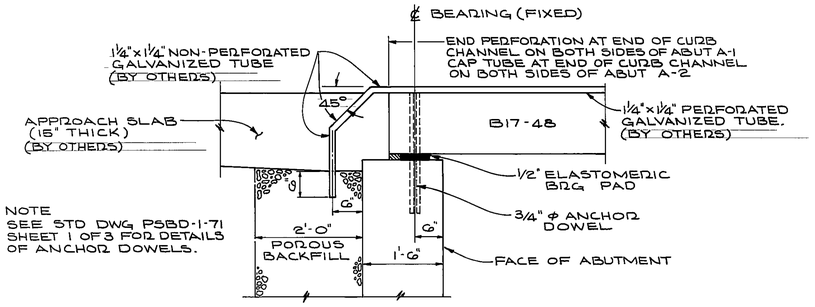
FOR ADDITIONAL REINFORCEMENT, SEE STD DWG PSBD-1-71



* = 1-3" CONDUIT EAST SIDE
2-3" CONDUIT WEST SIDE

SECTION H-H

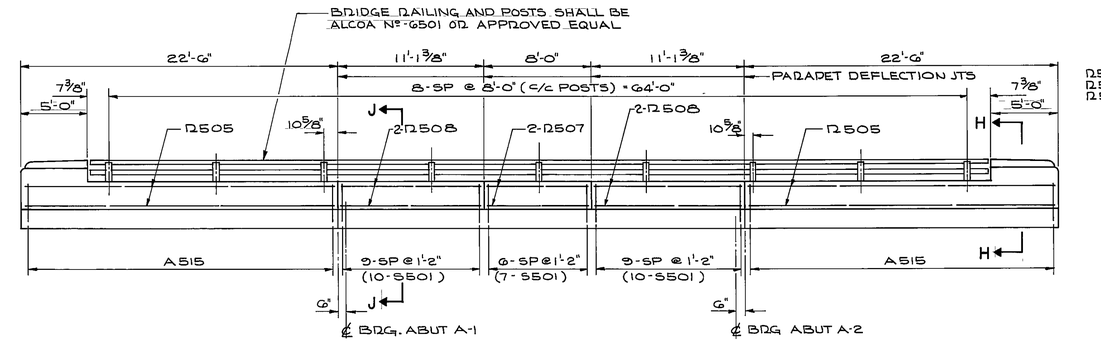
(TYP AT ALL RAILING ENDS)



NOTE
SEE STD DWG PSBD-1-71 SHEET 1 OF 3 FOR DETAILS OF ANCHOR DOWELS.

SECTION C-C

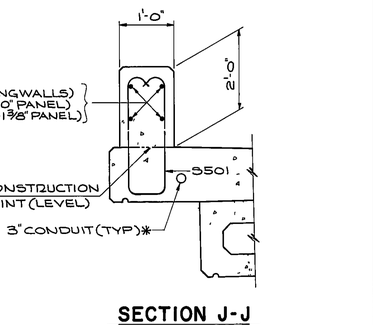
ABUTMENT A-1 SHOWN
ABUTMENT A-2 AS NOTED



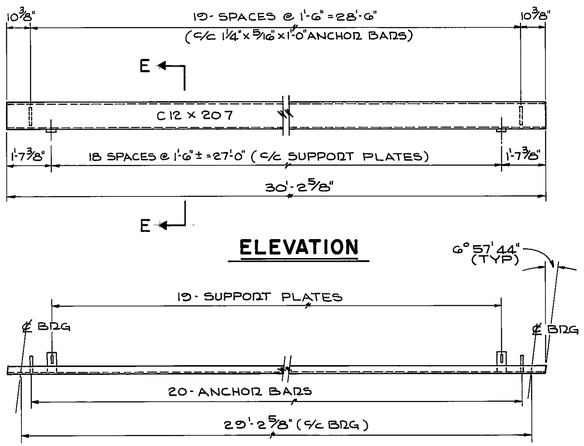
ELEVATION

RAILING DETAILS

(SEE STD DWG.)



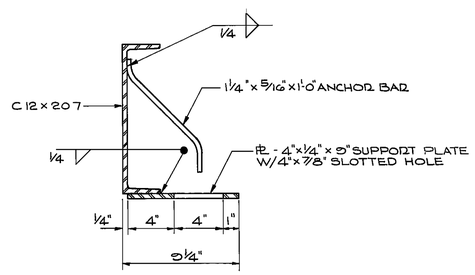
SECTION J-J



ELEVATION

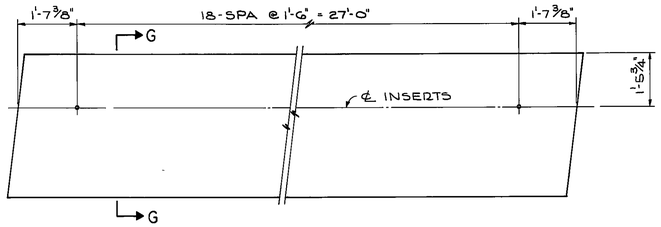
PLAN

CURB CHANNEL DETAIL



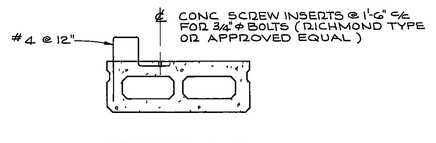
SECTION E-E

NOTE-
SUPPORT PLATES SHALL BE BOLTED TO THE BEAM WITH 3/4" ϕ BOLTS SO THAT THE FRONT EDGE IS LOCATED 1/4" BACK OF THE FACE OF CURB THE CURB CHANNEL SHALL THEN BE WELDED TO EACH PLATE, AS SHOWN



DETAIL - F

(BEAM "C" AND "D" ONLY)



SECTION G-G

(BEAM "C" AND "D" ONLY)

NOTES:

(1) ALL REINFORCING STEEL IN THE SUPERSTRUCTURE, PARAPETS AND PRESTRESSED BEAMS SHALL BE EPOXY COATED

CITY OF AKRON

adache · ciuni · lynn associates
CONSULTING ENGINEERS AKRON OHIO 44313

SUPERSTRUCTURE DETAILS
RELOCATED KELLY AVENUE OVER
RELOCATED LITTLE CUYAHOGA RIVER
CITY OF AKRON - BRIDGE Nº162

DESIGNED	EAF	CHECKED	RDH	6 / 7
DRAWN	JDP	APPROVED	RDH	

Acc. No. 17711
DWG No. A-9525

1980-032-00

REINFORCING SCHEDULE

MARK	NO. REQ'D.	LENGTH	TYPE	INCRM.	WT. (LBS.)
		ABUTMENT "A-1"			
A501	36	23'-0"	STR.		864
A502	36	31'-0"	STR.		1164
A503	64	5'-4"	2		356
A504	10	8'-6"	STR.		89
A505	10	10'-0"	STR.		104
A506	6	8'-8"	4		54
A507	6	8'-3"	3		52
A508	22	11'-6"	8		264
A509	14	15'-2"	STR.		222
A510	2	15'-8"	STR.		33
A511	2	17'-8"	STR.		37
A512	4	23'-2"	STR.		97
A513⊛	10	22'-2"	STR.		231
A514	30	5'-5"	STR.		170
A515⊛	28	6'-7"	7		192
A516⊛	30	5'-3"	12		164
A517	8	3'-2"	STR.		26
A518	4	9'-0"	5		38
A519	2 SERIES OF 4	3'-3" TO 4'-10"	STR.	6 3/8"	34
A520	16	4'-0"	STR.		67
A521	3	3'-10"	6		12
A522	3	4'-0"	5		13
A601	64	10'-5"	2		1002
A602	126	12'-3"	STR.		2318
A603	16	3'-4"	STR.		80
A604	16	4'-0"	5		96
A606	12	8'-6"	STR.		153
A607	28	4'-11"	STR.		207
A608	8	2'-8"	STR.		32
A609	2 SERIES OF 4	2'-9" TO 4'-4"	STR.	6 3/8"	43
A701	98	8'-2"	1		1636
A702	97	6'-6"	STR.		1289
A801	12	13'-10"	STR.		443
A802	6	13'-3"	STR.		212
A803	28	32'-11"	2		2461
A804	26	13'-8"	STR.		949
A805	2	14'-0"	STR.		75
A806	2	15'-6"	STR.		83
A807	2	16'-6"	STR.		88
A808	2	17'-6"	STR.		93
A809	6	21'-6"	STR.		344
A810	20	5'-0"	STR.		267
A811	20	6'-0"	STR.		320
A812⊛	31	5'-4"	13		441
				SUB-TOTAL	15887
				SUB-TOTAL	⊛1028
				TOTAL ABUTMENT A-1	16915

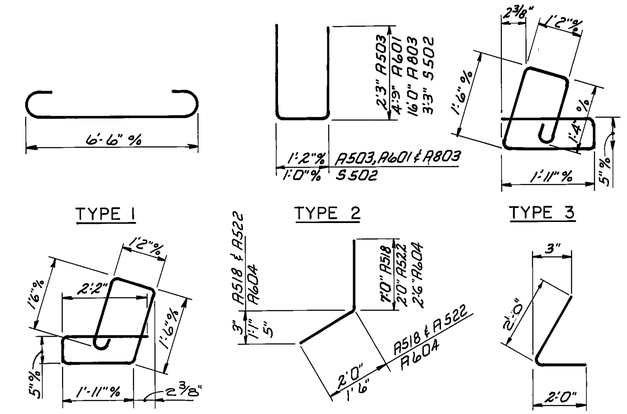
MARK	NO. REQ'D.	LENGTH	TYPE	INCRM.	WT. (LBS.)
		ABUTMENT "A-2"			
A501	36	23'-0"	STR.		864
A502	36	31'-0"	STR.		1164
A503	64	5'-4"	2		356
A504	10	8'-6"	STR.		89
A505	10	10'-0"	STR.		104
A506	6	8'-8"	4		54
A507	6	8'-3"	3		52
A508	22	11'-6"	8		264
A509	14	15'-2"	STR.		222
A510	2	15'-8"	STR.		33
A511	2	17'-8"	STR.		37
A512	4	23'-2"	STR.		97
A513⊛	10	22'-2"	STR.		231
A514	30	5'-5"	STR.		170
A515⊛	28	6'-7"	7		192
A516⊛	30	5'-3"	12		164
A517	8	3'-2"	STR.		26
A518	4	9'-0"	5		38
A519	2 SERIES OF 4	3'-3" TO 4'-10"	STR.	6 3/8"	34
A520	16	4'-0"	STR.		67
A521	3	3'-10"	6		12
A522	3	4'-0"	5		13
A601	64	10'-5"	2		1002
A602	126	12'-3"	STR.		2318
A603	16	3'-4"	STR.		80
A604	16	4'-0"	5		96
A606	12	8'-6"	STR.		153
A607	28	4'-11"	STR.		207
A608	8	2'-8"	STR.		32
A609	2 SERIES OF 4	2'-9" TO 4'-4"	STR.	6 3/8"	43
A701	98	8'-2"	1		1636
A702	97	6'-6"	STR.		1289
A801	12	13'-10"	STR.		443
A802	6	13'-3"	STR.		212
A803	28	32'-11"	2		2461
A804	26	13'-8"	STR.		949
A805	2	14'-0"	STR.		75
A806	2	15'-6"	STR.		83
A807	2	16'-6"	STR.		88
A808	2	17'-6"	STR.		93
A809	6	21'-6"	STR.		344
A810	20	5'-0"	STR.		267
A811	20	6'-0"	STR.		320
A812⊛	31	5'-4"	13		441
				SUB-TOTAL	15887
				SUB-TOTAL	⊛1028
				TOTAL ABUTMENT A-2	16915

MARK	NO. REQ'D.	LENGTH	TYPE	INCRM.	WT. (LBS.)
		SUPERSTRUCTURE			
S401 ⊛	18	29'-10"	STR.		359
S402 ⊛	42	9'-4"	STR.		262
S501 ⊛	54	6'-7"	7		371
S502 ⊛	82	7'-3"	2		620
				SUPERSTRUCTURE TOTAL	⊛1612
		RAILING *			
R501 ⊛	16	3'-3"	9		54
R502 ⊛	8	6'-7"	10		55
R503 ⊛	8	8'-9"	11		73
R504 ⊛	8	4'-8"	STR.		39
R505 ⊛	16	22'-2"	STR.		370
R506 ⊛	16	6'-7"	7		110
R507 ⊛	8	7'-8"	STR.		64
R508 ⊛	16	10'-9"	STR.		179
				RAILING TOTAL	⊛944

* RAILING REINFORCEMENT BARS WILL BE INCLUDED AS PART OF ITEM 517 FOR PAYMENT.

KELLY AVENUE (23/39)
PART I

BAR BENDING DIAGRAM



⊛NUMBER A515 BARS IN THE ABUTMENTS AND ALL SUPERSTRUCTURE AND RAILING REINFORCING STEEL LISTED ABOVE SHALL BE EPOXY COATED AND SHALL BE INCLUDED IN ITEM SPECIAL "EPOXY COATED REINFORCING STEEL" AND ITEM 517 "RAILING, AS PER PLAN," RESPECTIVELY. THE EPOXY COATING SHALL BE APPLIED AS PER THE STRUCTURAL GENERAL NOTES.

REFER TO C.M.S. SECTIONS 106.03, 700, 709.01 THROUGH 709.05 AND 709.08. SUFFICIENT ADDITIONAL REINFORCING STEEL SHALL BE PROVIDED FOR SAMPLING. RANDOM SAMPLES SHALL BE REPLACED IN THE STRUCTURE BY THE ADDITIONAL STEEL, SPLICED IN ACCORDANCE WITH 509.08.

DOWELS ARE TO BE A NUMBER 6 SIZE BAR.

CITY OF AKRON

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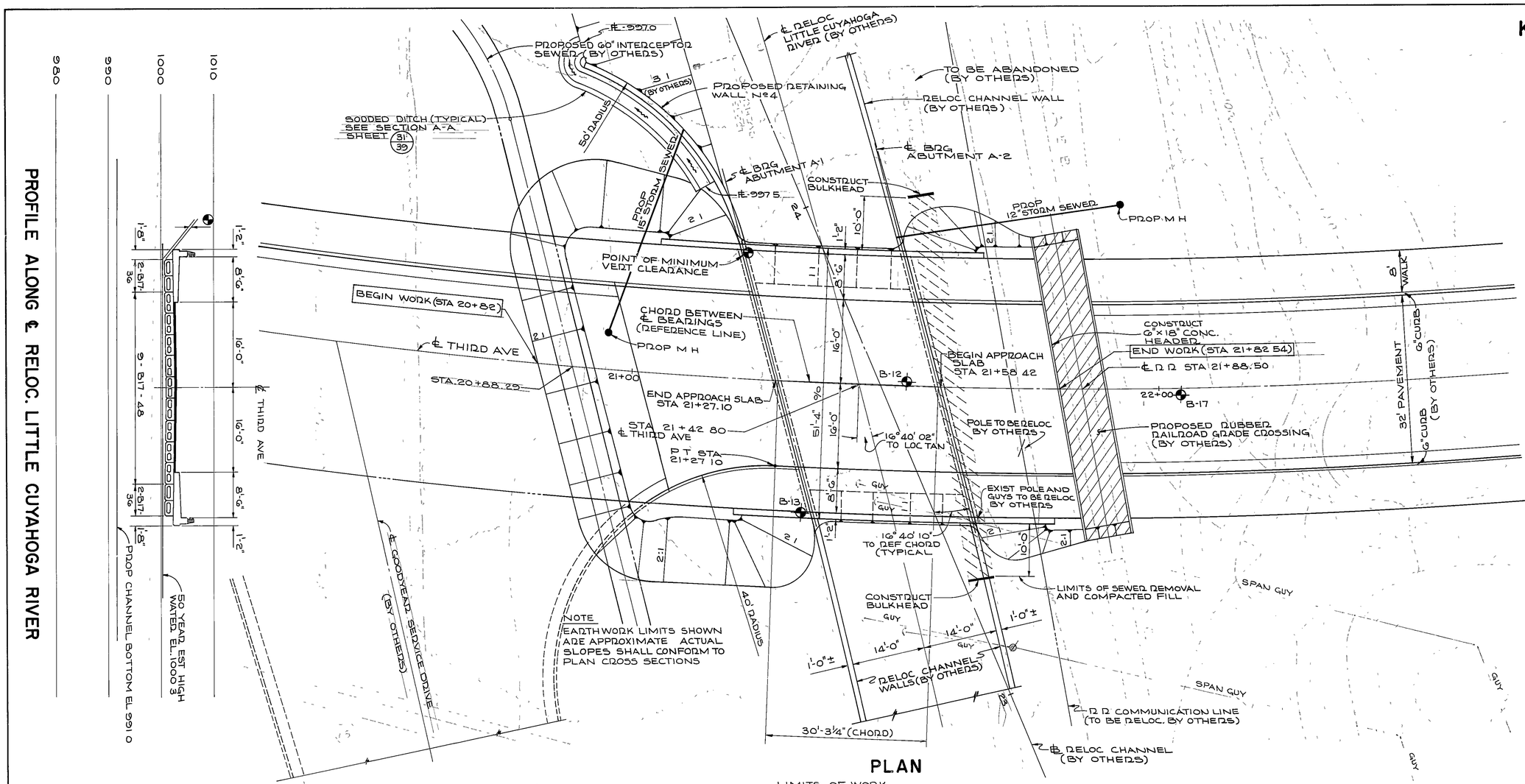
REINFORCING SCHEDULE
RELOCATED KELLY AVENUE OVER
RELOCATED LITTLE CUYAHOGA RIVER
CITY OF AKRON - BRIDGE Nº 162

DESIGNED	JDP	CHECKED	RDH	7
DRAWN	TMJ	APPROVED	RDH	7

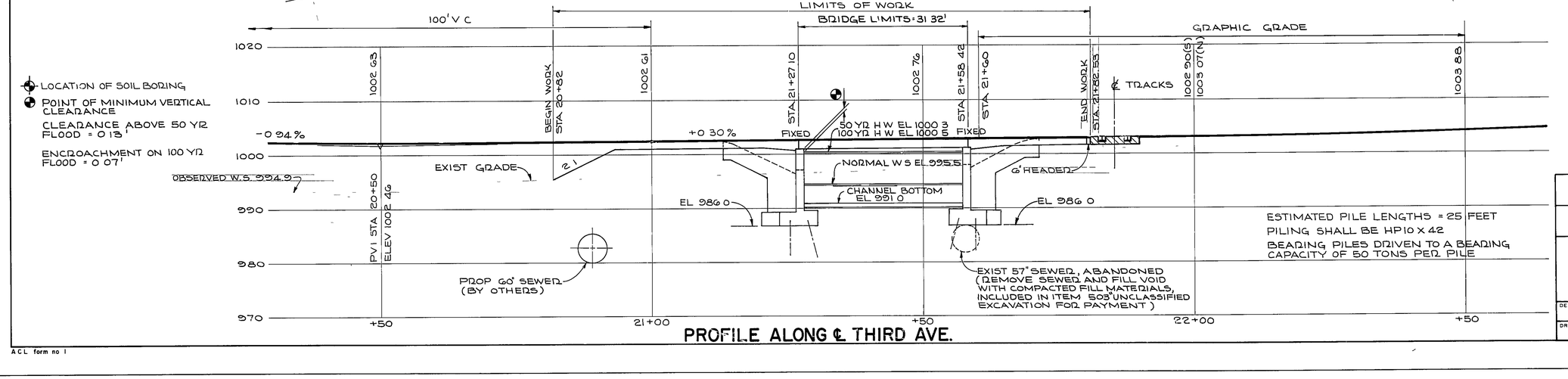
1980-032-00

Acc. No 17711
DWG No A-9524

KELLY AVENUE
PART I



PLAN



PROFILE ALONG ℄ THIRD AVE.

- ⊕ LOCATION OF SOIL BORING
- ⊕ POINT OF MINIMUM VERTICAL CLEARANCE

CLEARANCE ABOVE 50 YR FLOOD = 0 13'

ENCROACHMENT ON 100 YR FLOOD = 0 07'

ESTIMATED PILE LENGTHS = 25 FEET
PILING SHALL BE HP10 X 42
BEARING PILES DRIVEN TO A BEARING CAPACITY OF 50 TONS PER PILE

CURVE DATA

℄ THIRD AVE.
Δ = 23°19' 49"
Dc = 6° 00' LT
R = 954 93'
T = 197 15'
E = 20 14'
L = 388 84'
P.I STA 21+75.56

PROPOSED STRUCTURE

TYPE. PRESTRESSED CONCRETE BOX BEAMS ON REINFORCED CONCRETE SUBSTRUCTURE

SKEW 16°40' 02" RT FWD (TO LOCAL TANGENT)

SPAN 30'-3¼"

ROADWAY 32' F/F CURBS

SIDEWALKS. 8'-6" EACH SIDE

LOADING H S 20-44 AND ALTERNATE MILITARY LOADING. SIDEWALK LOADING = 85 psf

WEARING SURFACE 2½"(MIN) ASPHALT (BY OTHERS)

APPROACH SLABS (BY OTHERS)

ALIGNMENT: 6° CURVE (LT)

SUPERELEVATION: NONE

SLOPE PROTECTION NONE

TRAFFIC: 1990 ADT = 1660

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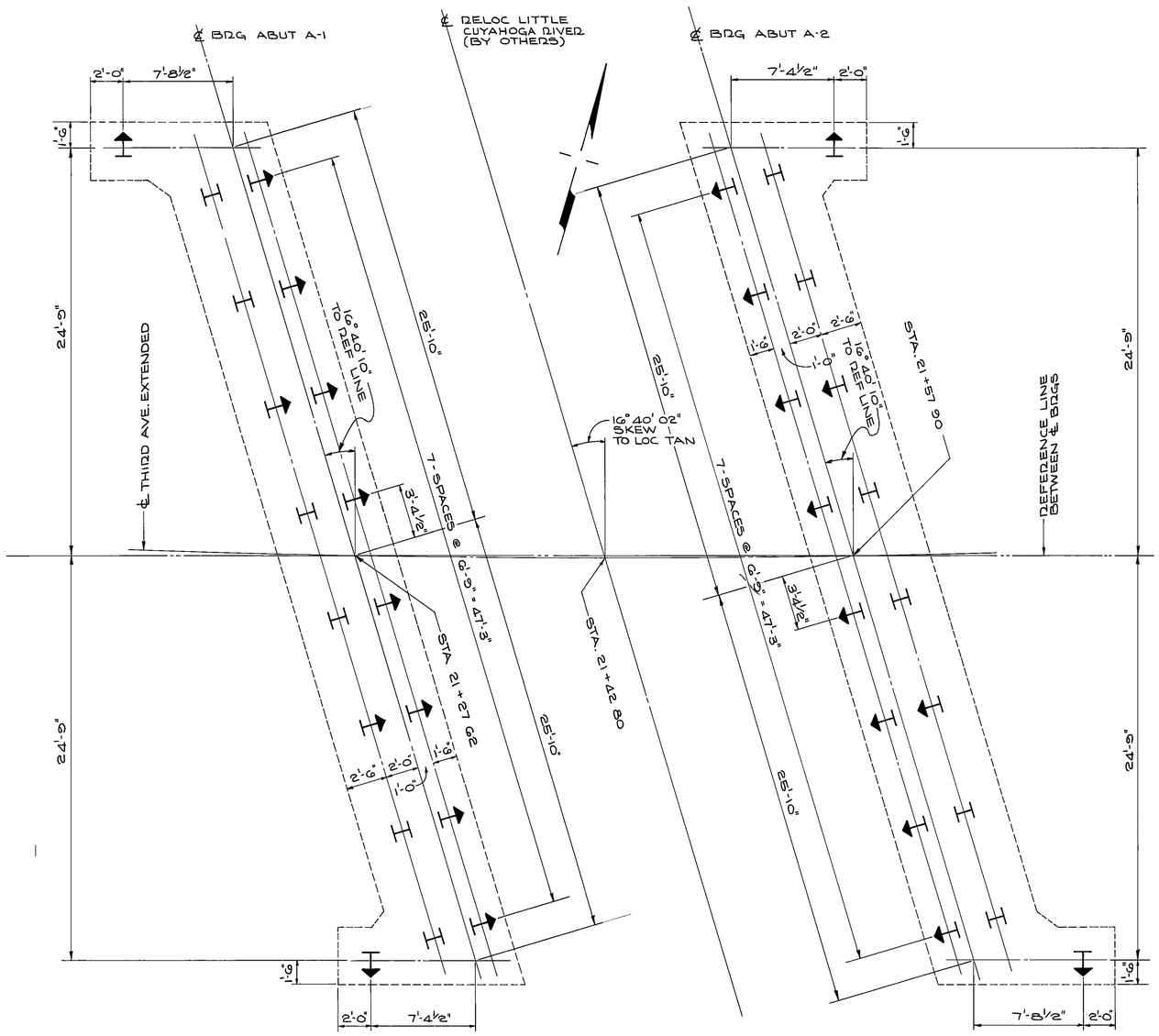
SITE PLAN
THIRD AVENUE OVER
RELOCATED LITTLE CUYAHOGA RIVER
CITY OF AKRON - BRIDGE Nº 163

DESIGNED	EAF	CHECKED	RDH	1
DRAWN	J.D.P.	APPROVED	RDH	7

Acc No 17711
Dwg No A-9523

1980-037-00

ACL form no 1



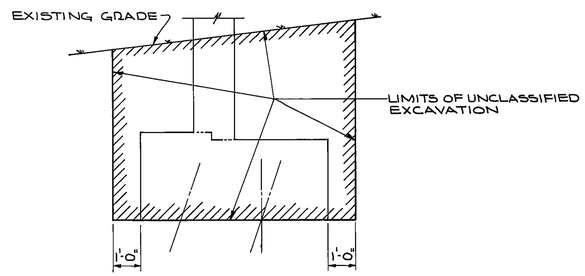
PILE PLAN

NOTES

1. PILES SHALL BE DRIVEN TO BEDROCK. THE BEARING CAPACITY SHALL BE CONSIDERED OBTAINED BY REFUSAL ON HARD BEDROCK OR BY PENETRATING SOFT BEDROCK FOR 6 INCHES (MIN.) WITH A MINIMUM RESISTANCE OF 20 BLOWS PER INCH THE DESIGN LOAD IS 50 TONS PER PILE
2. ALL PILES SHALL BE HP10x42 STEEL BEARING PILES
3. ↦ INDICATES DIRECTION OF 1 3 BATTER
4. ALL PILES SHALL BE CUT OFF AT ELEVATION 988 00
5. ESTIMATED PILE LENGTH = 25'

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	SUPER	ABUT	GEN'L.		
503	LUMP	LSUM	COFFERDAMS, CRIBS AND SHEETING			LS		
503	426	CY	UNCLASSIFIED EXCAVATION		426			
505	LUMP	LSUM	TEST PILE		LS			
506	LUMP	LSUM	PILE TEST LOAD		LS			
507	900	LF	STEEL PILES (HP10x42)		900			
509	21264	LBS	REINFORCING STEEL, GRADE-60		21264			
510	26	LF	DOWEL HOLES		26			
511	101	CY	CLASS-C CONCRETE, ABUTMENTS ABOVE FOOTINGS		101			
511	94	CY	CLASS-C CONCRETE, FOOTINGS		94			
511	27	CY	CLASS-S CONCRETE, SUPERSTRUCTURE	27				
512	8	SY	TYPE - "B" WATERPROOFING		8			
513	1446	LBS	STRUCTURAL STEEL, ASTM (A-36)	1446				
514	LUMP	LSUM	FIELD PAINTING OF NEW STRUCTURAL STEEL, SYSTEM - A	LS				
515	4	EACH	PRESTRESSED CONCRETE BOX BEAM (B17-36) x 31 3 12	4				
515	9	EACH	PRESTRESSED CONCRETE BOX BEAM (B17-48) x 31 3 12	9				
516	52	EACH	1/2" x 6" x 6" ELASTOMERIC BEARING PADS		52			
516	52	EACH	1/8" x 6" x 6" ELASTOMERIC BEARING PADS		52			
516	66	SF	1/2" PREFORMED EXPANSION JOINT FILLER		66			
516	6	SF	1" PREFORMED EXPANSION JOINT FILLER		6			
517	122 74	LF	RAILING (CONC PARAPET WITH DOUBLE PIPE RAIL) (AS PER PLAN)	122 74				
518	45	CY	POROUS BACKFILL		45			
625	123	LF	3" CONDUIT	63	60			
838	4	HOURS	SPECIAL PILE TEST		4			
SPEC	3075	LBS	EPOXY COATED REINFORCING STEEL	1667	1408			
SPEC	183	SY	WATERPROOFING SEALANT	126	57			



EXCAVATION DETAIL

CITY OF AKRON

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PILE PLAN & EST. QUANTITIES

THIRD AVENUE OVER
RELOCATED LITTLE CUYAHOGA RIVER
CITY OF AKRON - BRIDGE Nº 163

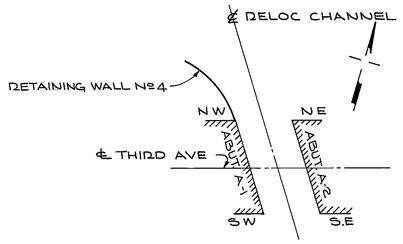
DESIGNED	EAF	CHECKED	RDH	2 / 7
DRAWN	JDP	APPROVED	RDH	

1980-032-00

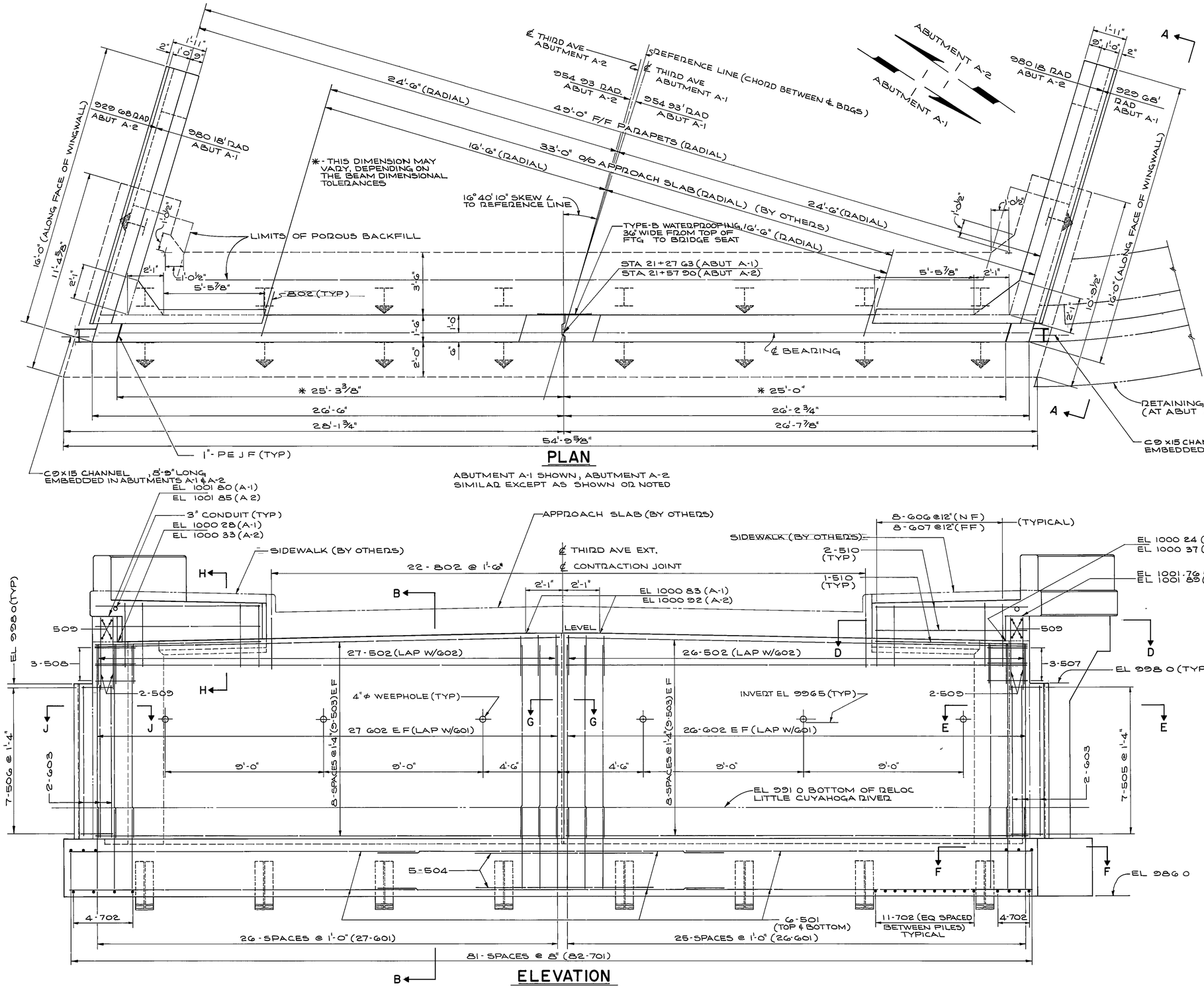
ACC No 17711
DWG No-9522

ACL form no 1

KELLY AVENUE
PART I



KEY PLAN



PLAN

ABUTMENT A-1 SHOWN, ABUTMENT A-2 SIMILAR EXCEPT AS SHOWN OR NOTED

ELEVATION

NOTES

1. THE PREFIX "A" SHALL BE ADDED TO ALL REINFORCING BAR MARKS IN ABUTMENTS UNLESS OTHERWISE SHOWN
2. ABBREVIATIONS USED ARE
   - N F = NEAR FACE
   - E F = EACH FACE
   - F F = FAR FACE
3. BACKFILL SHALL NOT BE PLACED ABOVE ELEV 996 0 UNTIL ALL BEAMS ARE SET, TIE RODS ARE TENSIONED, AND DOWELS ARE DRILLED AND GROUTED AT THE ABUTMENTS
4. POROUS BACKFILL, 2' THICK, SHALL EXTEND UP TO THE PLANE OF THE SUBGRADE BEHIND THE ABUTMENTS AND WINGWALLS WITHIN THE LIMITS SHOWN
5. REINFORCING STEEL IN THE VICINITY OF THE BRIDGE SEAT SHALL BE ACCURATELY PLACED TO AVOID INTERFERENCE WITH THE DRILLING OF ANCHOR BAR HOLES
6. FOR VIEW A-A AND SECTIONS B-B, D-D, E-E, F-F, G-G, H-H AND J-J, SEE SHEET Nº 4/7

CITY OF AKRON

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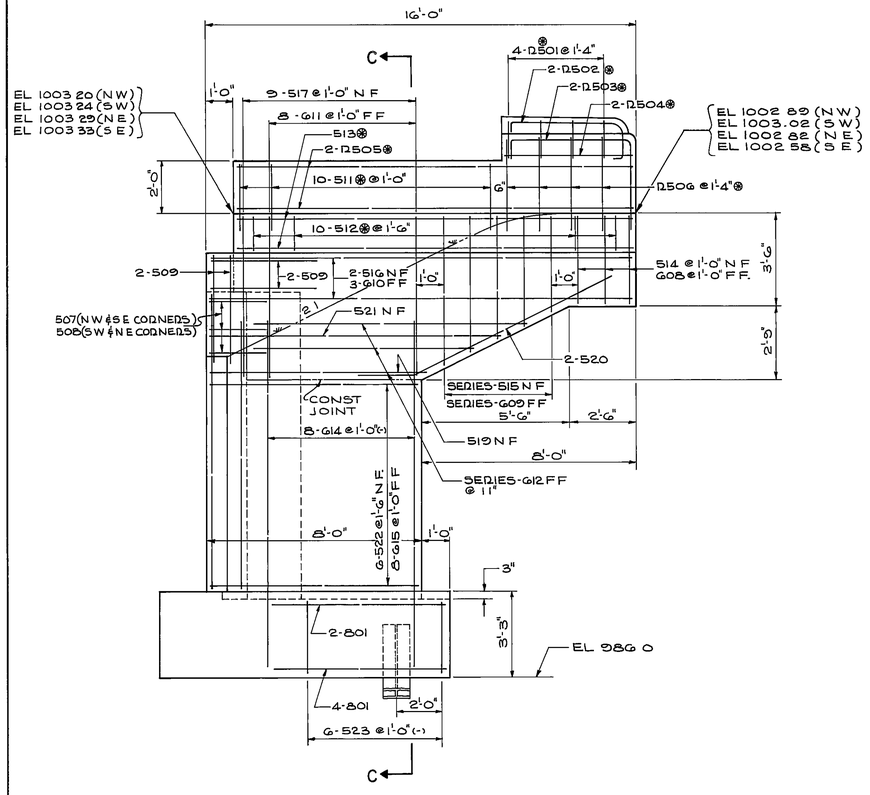
ABUTMENT DETAILS
THIRD AVENUE OVER
RELOCATED LITTLE CUYAHOGA RIVER
CITY OF AKRON - BRIDGE Nº 163

DESIGNED	EAF	CHECKED	RDH	3
DRAWN	JDP	APPROVED	RDH	7

1980-032-00

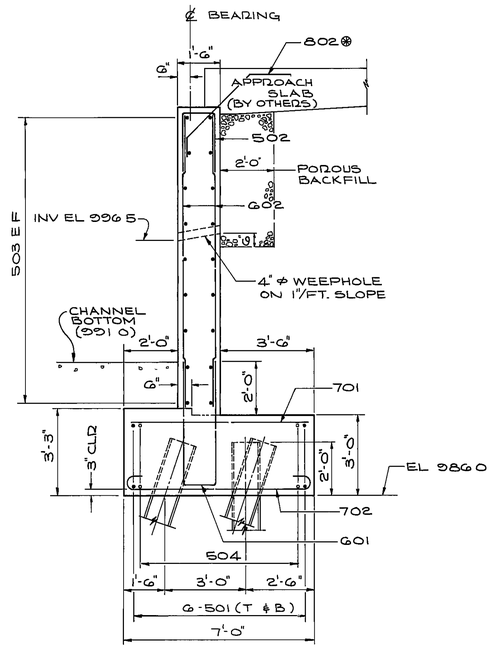
ACG, No. 17711
DWG, NO 9521

ACL form no 1

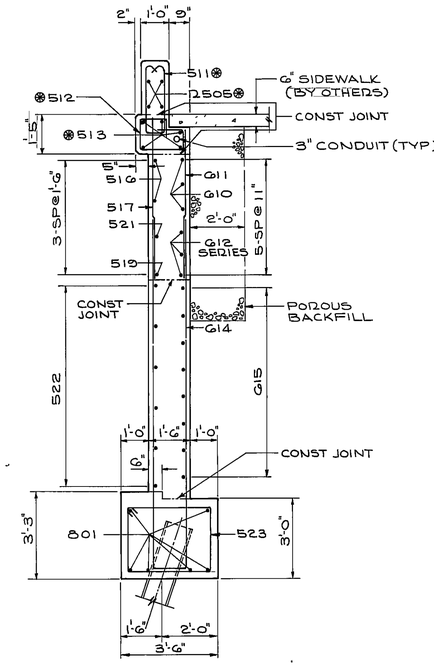


VIEW A-A

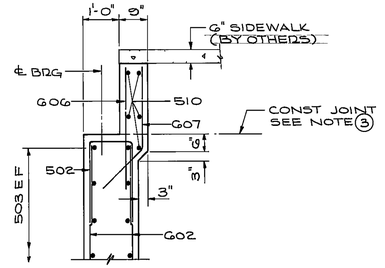
NW WALL SHOWN, ALL OTHER WALLS SIMILAR EXCEPT AS SHOWN OR NOTED



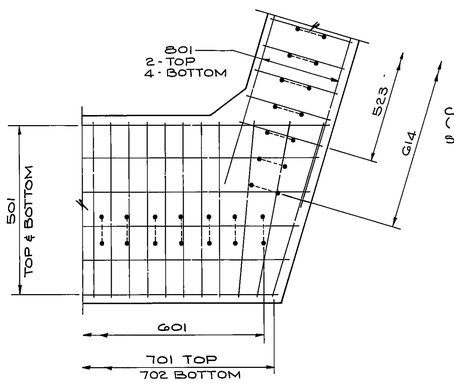
SECTION B-B



SECTION C-C

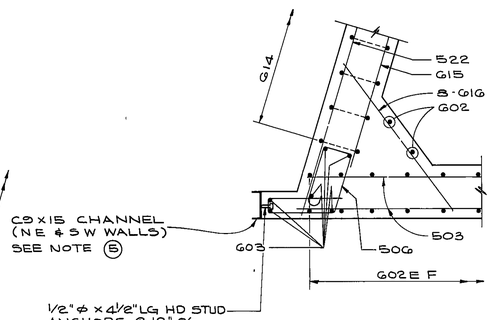


SECTION H-H



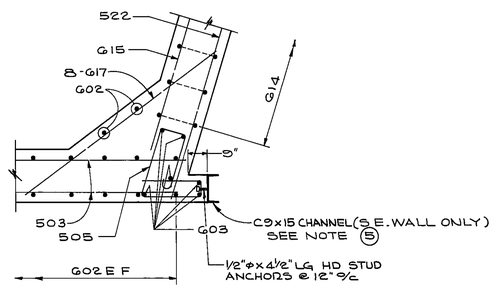
SECTION F-F

NW WINGWALL SHOWN, ALL OTHER WINGWALLS SIMILAR



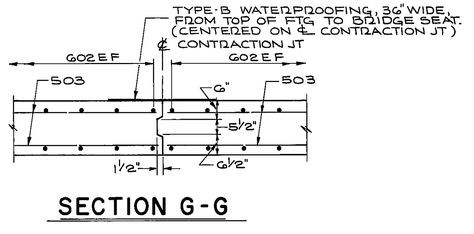
SECTION J-J

NE & SW WINGWALLS

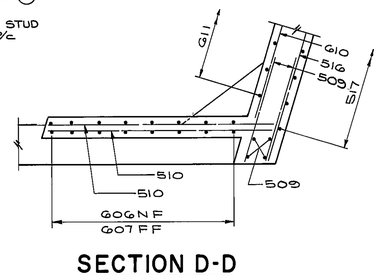


SECTION E-E

SE & NW WINGWALLS



SECTION G-G



SECTION D-D

NW WINGWALL SHOWN, ALL OTHER WINGWALLS SIMILAR

NOTES

1. FOR RAILING DETAILS SEE SHEET Nº G/7
2. FOR ADDITIONAL NOTES, SEE SHT Nº 3/7
3. CONCRETE ABOVE CONSTRUCTION JOINT SHALL NOT BE POURED UNTIL ALL BEAMS ARE IN PLACE AND GROUTED INTO THE ABUTMENTS
4. Ø INDICATES REINFORCING BARS TO BE EPOXY-COATED
5. THE C9x15 CHANNEL WILL BE PAID FOR IN ITEM-511 CLASS-C CONCRETE ABUTMENTS ABOVE FOOTINGS

CITY OF AKRON

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CONSULTING ENGINEERS — AKRON OHIO 44313

ABUTMENT DETAILS

THIRD AVENUE OVER
RELOCATED LITTLE CUYAHOGA RIVER
CITY OF AKRON - BRIDGE Nº 163

DESIGNED	EAF	CHECKED	RDH	4
DRAWN	JDP	APPROVED	RDH	7

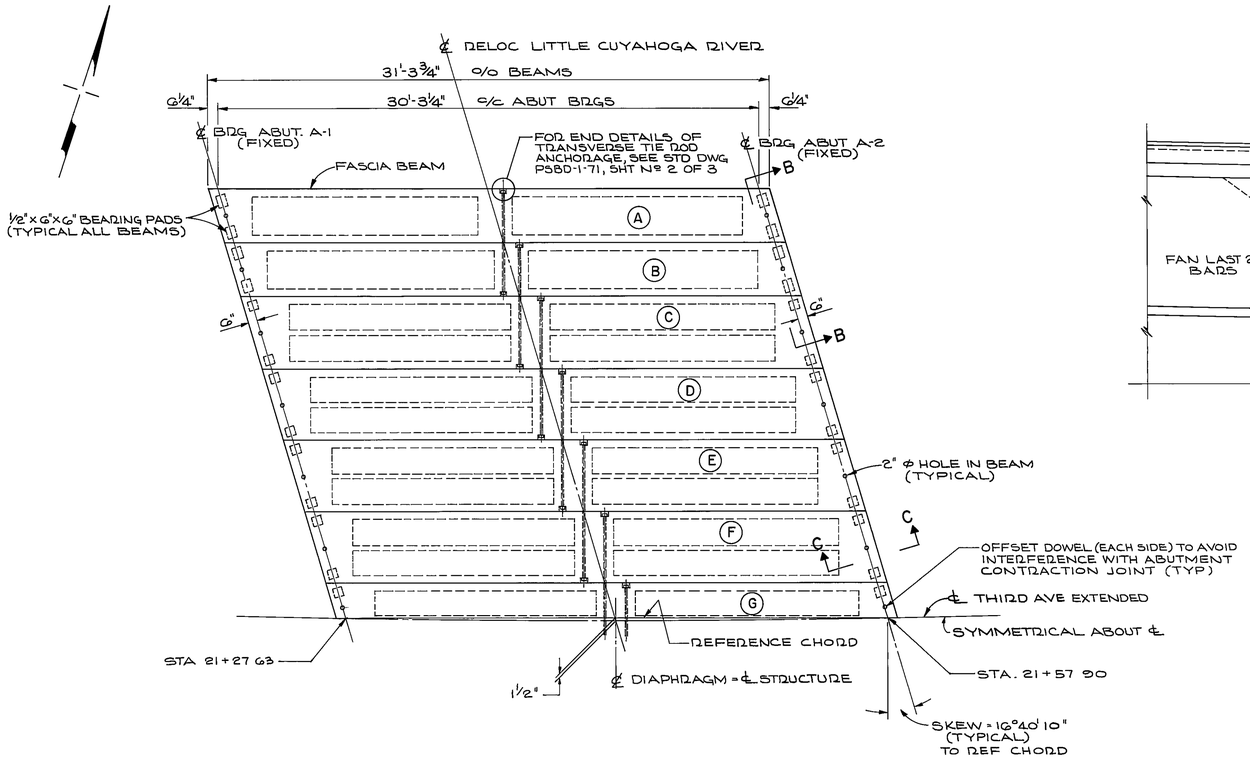
1980-032-00

ACC No 17711
DWG. No. 9520

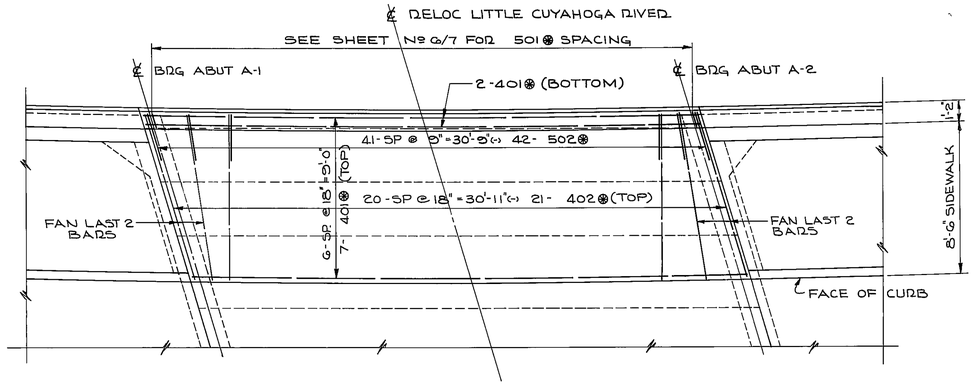
ACL form no 1

KELLY AVENUE
PART I

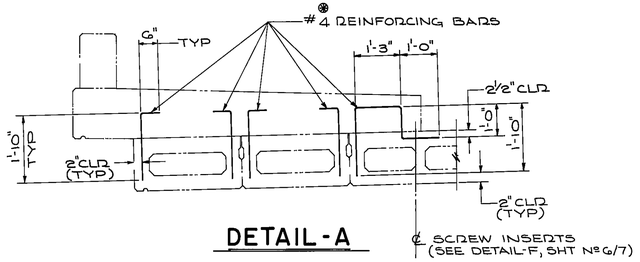
28
39



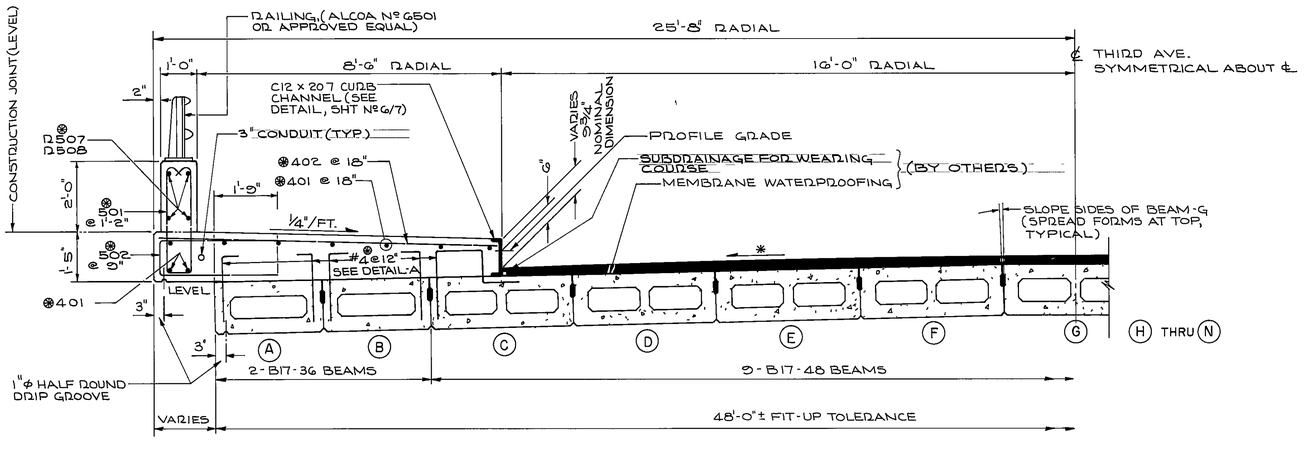
FRAMING PLAN



BRIDGE SIDEWALK PLAN



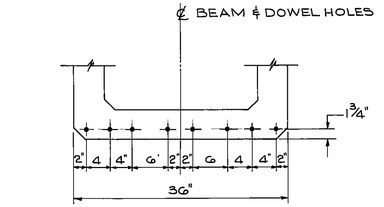
DETAIL-A



TRANSVERSE SECTION

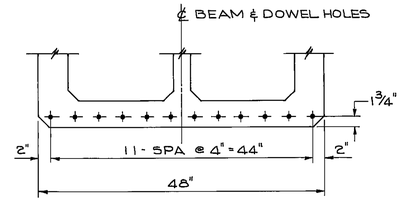
NOTE
OMIT SHEAR KEY ON EXTERIOR FACE OF FASCIA BEAMS

* PARABOLIC CROWN, SEE TYPICAL SECTIONS. BEAMS TO BE SET ON A STRAIGHT CROSS-SLOPE OF 0.3125 IN/FT AND THE PARABOLIC CROWN BUILT INTO THE WEARING SURFACE. (BY OTHERS)



STRAND PATTERN FOR B17-36 BEAMS

(8-STRANDS REQ'D)



STRAND PATTERN FOR B17-48 BEAMS

(12 STRANDS REQ'D)

NOTES

1. END ALL DRIP GROOVES 1'-6" IN FROM END OF BEAMS
2. ⊛ INDICATES REINFORCING BARS TO BE EPOXY COATED
3. SEE STD DWG PSBD-1-71, SHEET-1 THRU 3 FOR ADDITIONAL DETAILS
4. ALL REINFORCING STEEL EMBEDDED IN THE PRESTRESSED BEAMS SHALL BE INCLUDED FOR PAYMENT WITH THE COST OF ITEM-515, PRESTRESSED CONCRETE BOX BEAMS
5. FOR SECTIONS B-B AND C-C SEE SHEET Nº 6/7
6. ALL BEARING PADS SHALL BE 70-DUROMETER NEOPRENE
7. 1/8" THICK BEARING PADS SHALL BE USED AS REQUIRED TO ACCOMMODATE ANY NON-PARALLELISM BETWEEN BOTTOM OF BEAMS AND BRIDGE SEAT
8. THE PREFIX "S" SHALL BE ADDED TO ALL REINFORCING BAR MARKS IN SIDEWALK UNLESS OTHERWISE SHOWN
9. CURBS, PARAPETS, AND FASCIAS SHALL BE CONSTRUCTED ON CURVES PARALLEL TO THE ℄ CURVATURE

CITY OF AKRON

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CONSULTING ENGINEERS AKRON OHIO 44313

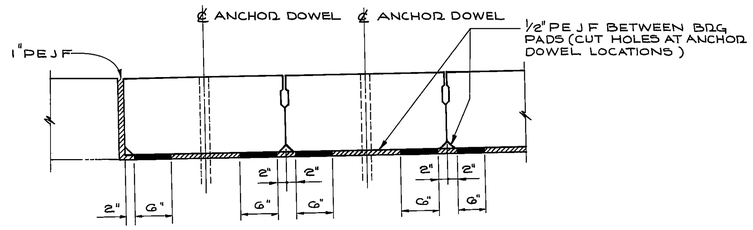
SUPERSTRUCTURE DETAILS
THIRD AVENUE OVER
RELOCATED LITTLE CUYAHOGA RIVER
CITY OF AKRON-BRIDGE Nº 163

DESIGNED	EAF	CHECKED	RDH	5 / 7
DRAWN	JDP	APPROVED	R.DH	

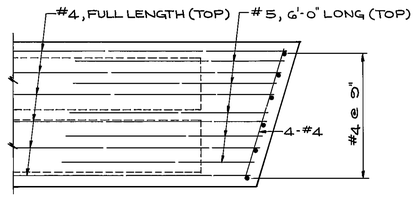
1980-032-00

Acc No 17711
DWG.No 9519

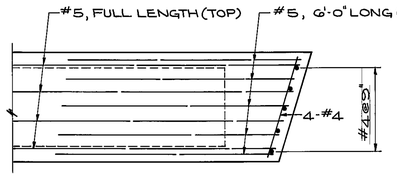
ACL form no 1



SECTION B-B
(TYPICAL BOTH ABUTMENTS)

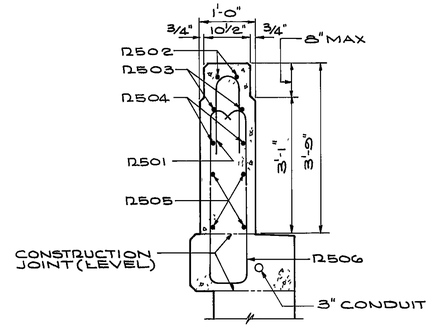


B17-48

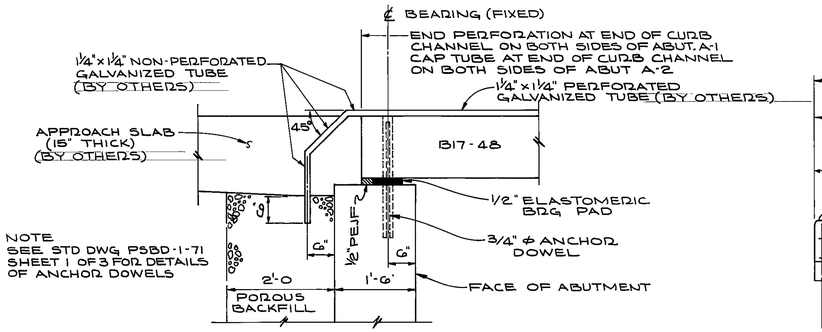


B17-36

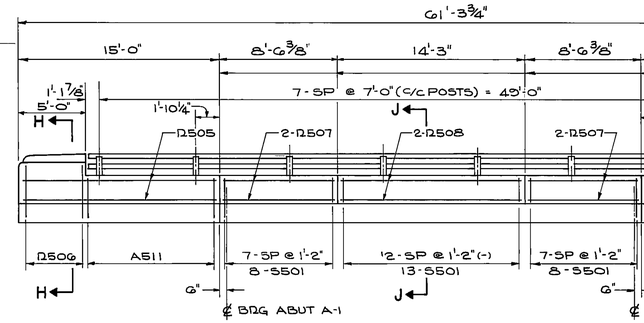
PLAN OF TYPICAL BEAM END
FOR ADDITIONAL REINFORCEMENT, SEE STD DWG PSBD-1-71



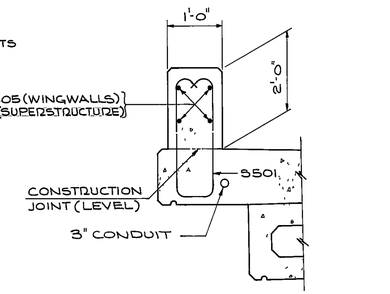
SECTION H-H



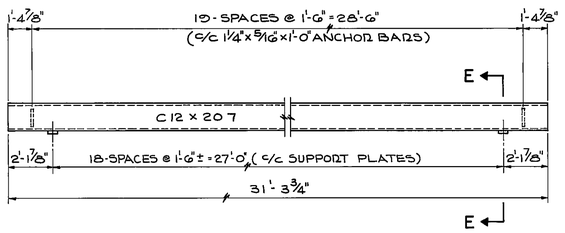
SECTION C-C
ABUTMENT A-1 SHOWN
ABUTMENT A-2 AS NOTED



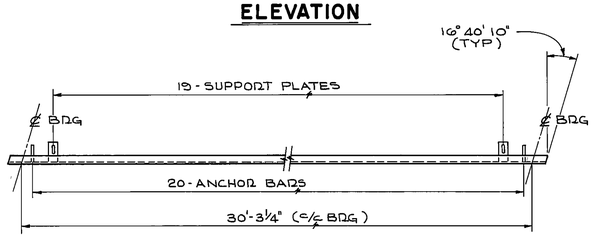
ELEVATION
RAILING DETAILS
(SEE STD DWG)



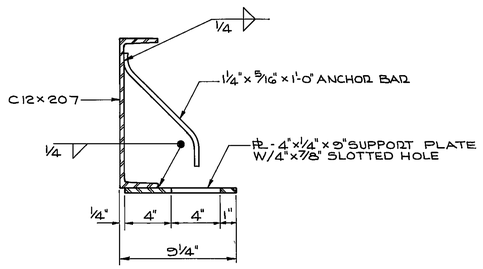
SECTION J-J



ELEVATION

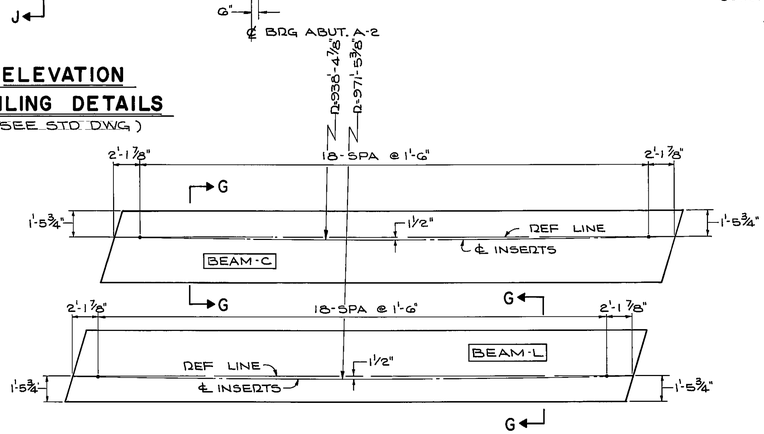


PLAN
CURB CHANNEL DETAIL

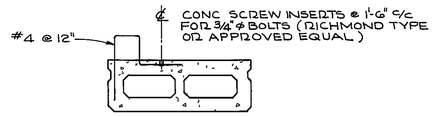


SECTION E-E

NOTE
SUPPORT PLATES SHALL BE BOLTED TO THE BEAM WITH 3/4" ϕ BOLTS SO THAT THE FRONT EDGE IS LOCATED 1/4" BACK OF THE FACE OF CURB THE CURB CHANNEL SHALL THEN BE WELDED TO EACH PLATE



DETAIL - F



SECTION G-G
(BEAM-'C' AND 'L' ONLY)

NOTES

(1) ALL REINFORCING STEEL IN THE SUPERSTRUCTURE, PARAPETS AND PRESTRESSED BEAMS SHALL BE EPOXY COATED.

CITY OF AKRON

adache - ciuni - lynn associates
CONSULTING ENGINEERS AKRON OHIO 44313

SUPERSTRUCTURE DETAILS
THIRD AVENUE OVER
RELOCATED LITTLE CUYAHOGA RIVER
CITY OF AKRON - BRIDGE Nº 163

DESIGNED	E.A.F	CHECKED	R.D.H	6 / 7
DRAWN	J.D.P.	APPROVED	R.D.H	

1980-032-00

ACC. No. 17711
DWG No. 9518

ACL form no 1

REINFORCING SCHEDULE

MARK	NO. REQ'D.	LENGTH	TYPE	INCRM.	WT. (LBS.)
		ABUTMENT "A-1"			
A501	36	19'-6"	STR.		732
A502	51	6'-5"	2		341
A503	36	25'-8"	STR.		964
A504	10	10'-0"	STR.		104
A505	7	9'-1"	3		66
A506	7	8'-8"	4		63
A507	3	4'-0"	5		13
A508	3	3'-10"	6		12
A509	16	4'-0"	STR.		67
A510	10	8'-9"	STR.		91
A511⊛	20	6'-7"	7		137
A512⊛	20	5'-3"	12		110
A513⊛	10	14'-8"	STR.		153
A514	6	3'-2"	STR.		20
A515	2 SERIES OF 5	3'-6" TO 5'-10"	STR.	6"	49
A516	4	15'-8"	STR.		65
A517	18	6'-6"	STR.		122
A519	2	7'-8"	STR.		16
A520	4	10'-0"	5		42
A521	2	10'-9"	STR.		22
A522	12	7'-8"	STR.		96
A523	12	11'-6"	8		144
A601	51	10'-4"	2		791
A602	106	10'-8"	STR.		1699
A603	12	8'-5"	STR.		152
A606	16	3'-4"	STR.		80
A607	16	3'-8"	5		88
A608	6	2'-8"	STR.		24
A609	2 SERIES OF 5	3'-2" TO 5'-0"	STR.	6"	61
A610	6	14'-2"	STR.		128
A611	16	6'-0"	STR.		144
A612	2 SERIES OF 3	6'-4" TO 10'-4"	STR.	2'-0"	75
A614	16	25'-10"	2		621
A615	16	7'-6"	STR.		180
A616	8	5'-0"	STR.		60
A617	8	6'-8"	STR.		80
A701	82	6'-6"	STR.		1089
A702	85	8'-2"	1		1419
A801	12	6'-6"	STR.		208
A802⊛	22	5'-2"	13		304
				TOTAL ABUTMENT A-1	10632
					⊛ 704
				TOTAL ABUTMENT A-1	9928

MARK	NO. REQ'D.	LENGTH	TYPE	INCRM.	WT. (LBS.)
		ABUTMENT "A-2"			
A501	36	19'-6"	STR.		732
A502	51	6'-5"	2		341
A503	36	25'-8"	STR.		964
A504	10	10'-0"	STR.		104
A505	7	9'-1"	3		66
A506	7	8'-8"	4		63
A507	3	4'-0"	5		13
A508	3	3'-10"	6		12
A509	16	4'-0"	STR.		67
A510	10	8'-9"	STR.		91
A511⊛	20	6'-7"	7		137
A512⊛	20	5'-3"	12		110
A513⊛	10	14'-8"	STR.		153
A514	6	3'-2"	STR.		20
A515	2 SERIES OF 5	3'-6" TO 5'-10"	STR.	6"	49
A516	4	15'-8"	STR.		65
A517	18	6'-6"	STR.		122
A519	2	7'-8"	STR.		16
A520	4	10'-0"	5		42
A521	2	10'-9"	STR.		22
A522	12	7'-8"	STR.		96
A523	12	11'-6"	8		144
A601	51	10'-4"	2		791
A602	106	10'-8"	STR.		1699
A603	12	8'-5"	STR.		152
A606	16	3'-4"	STR.		80
A607	16	3'-8"	5		88
A608	6	2'-8"	STR.		24
A609	2 SERIES OF 5	3'-2" TO 5'-0"	STR.	6"	61
A610	6	14'-2"	STR.		128
A611	16	6'-0"	STR.		144
A612	2 SERIES OF 3	6'-4" TO 10'-4"	STR.	2'-0"	75
A614	16	25'-10"	2		621
A615	16	7'-6"	STR.		180
A616	8	5'-0"	STR.		60
A617	8	6'-8"	STR.		80
A701	82	6'-6"	STR.		1089
A702	85	8'-1"	1		1419
A801	12	6'-6"	STR.		208
A802⊛	22	5'-2"	13		304
				TOTAL ABUTMENT A-2	10632
					⊛ 704
				TOTAL ABUTMENT A-2	9928

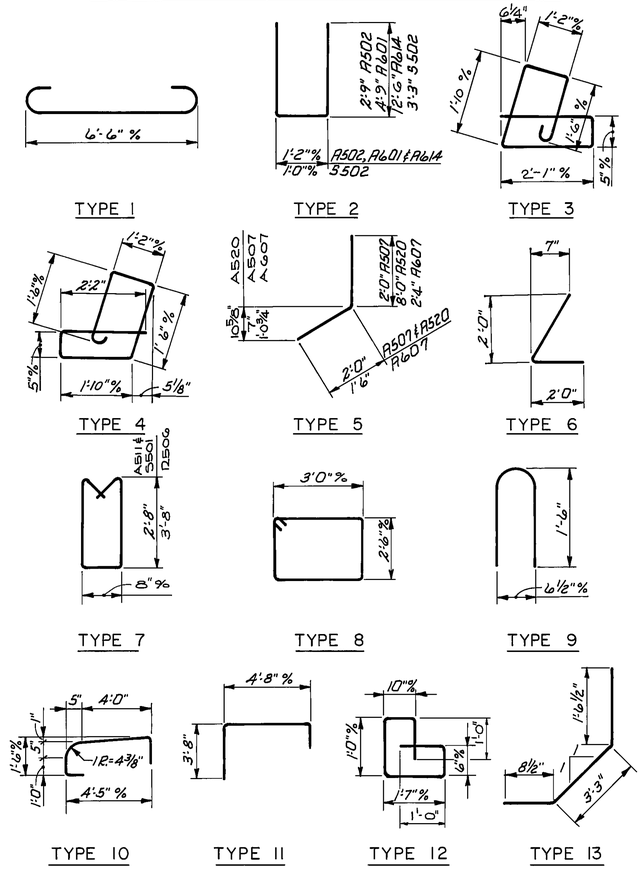
MARK	NO. REQ'D.	LENGTH	TYPE	INCRM.	WT. (LBS.)
		SUPERSTRUCTURE			
S401⊛	18	30'-11"	STR.		372
S402⊛	42	9'-4"	STR.		262
S501⊛	58	6'-7"	7		398
S502⊛	84	7'-3"	2		635
			SUPERSTRUCTURE TOTAL		⊛1667
		RAILING *			
R501⊛	16	3'-3"	9		54
R502⊛	8	6'-7"	10		55
R503⊛	8	8'-9"	11		73
R504⊛	8	4'-8"	STR.		39
R505⊛	16	14'-8"	STR.		245
R506⊛	16	8'-7"	7		143
R507⊛	16	8'-2"	STR.		136
R508⊛	8	13'-11"	STR.		116
			RAILING TOTAL		⊛861

* RAILING REINFORCEMENT BARS WILL BE INCLUDED AS PART OF ITEM 517 FOR PAYMENT.

KELLY AVENUE
PART I

30
39

BAR BENDING DIAGRAM


6'-6" %
TYPE 1
2'9" A502
4'9" A601
2'-6" A614
3'-3" 3502
1'-2" %
1'-2" % A502, A601 & A614
1'-0" % 3502
TYPE 2
6¼"
1'-2" %
1'10 %
1'6" %
5" %
2'-1" %
TYPE 3
1'-2" %
1'-8" %
2'-2"
1'-6" %
5" %
1'-10" %
5⅛"
TYPE 4
A520
A507
A607
2'-0" A502
8'-0" A520
2'-4" A607
5" %
1'-0" %
2'-0"
1'-6"
A507 & A520
A607
TYPE 5
7"
2'-0"
2'-0"
TYPE 6
A511 & 3501
A502
2'-8"
3'-8"
8" %
TYPE 7
3'-0" %
2'-6" %
TYPE 8
1'-6"
6½" %
TYPE 9
5"
4'-0"
1'-0" %
1'-5"
12=4⅞"
4'-5" %
TYPE 10
4'-8" %
3'-8"
TYPE 11
10" %
1'-0" %
1'-0"
6" %
1'-7" %
1'-0"
TYPE 12
1'-6½"
8½"
3'-3"
TYPE 13

⊛ NUMBER A511, A512 AND A513 BARS IN THE ABUTMENTS AND ALL SUPERSTRUCTURE AND RAILING REINFORCING STEEL LISTED ABOVE SHALL BE EPOXY COATED AND SHALL BE INCLUDED IN ITEM SPECIAL "EPOXY COATED REINFORCING STEEL" AND ITEM 517 "RAILING, AS PER PLAN," RESPECTIVELY. THE EPOXY COATING SHALL BE APPLIED AS PER THE STRUCTURAL GENERAL NOTES.

REFER TO C.M.S. SECTIONS 106.03, 700, 709.01 THROUGH 709.05 AND 709.08. SUFFICIENT ADDITIONAL REINFORCING STEEL SHALL BE PROVIDED FOR SAMPLING. RANDOM SAMPLES SHALL BE REPLACED IN THE STRUCTURE BY THE ADDITIONAL STEEL, SPLICED IN ACCORDANCE WITH 509.08.

DOWELS ARE TO BE A NUMBER 6 SIZE BAR.

CITY OF AKRON

adache · ciuni · lynn associates
CONSULTING ENGINEERS — AKRON OHIO 44313

REINFORCING SCHEDULE
THIRD AVENUE OVER
RELOCATED LITTLE CUYAHOGA RIVER
CITY OF AKRON - BRIDGE Nº 163

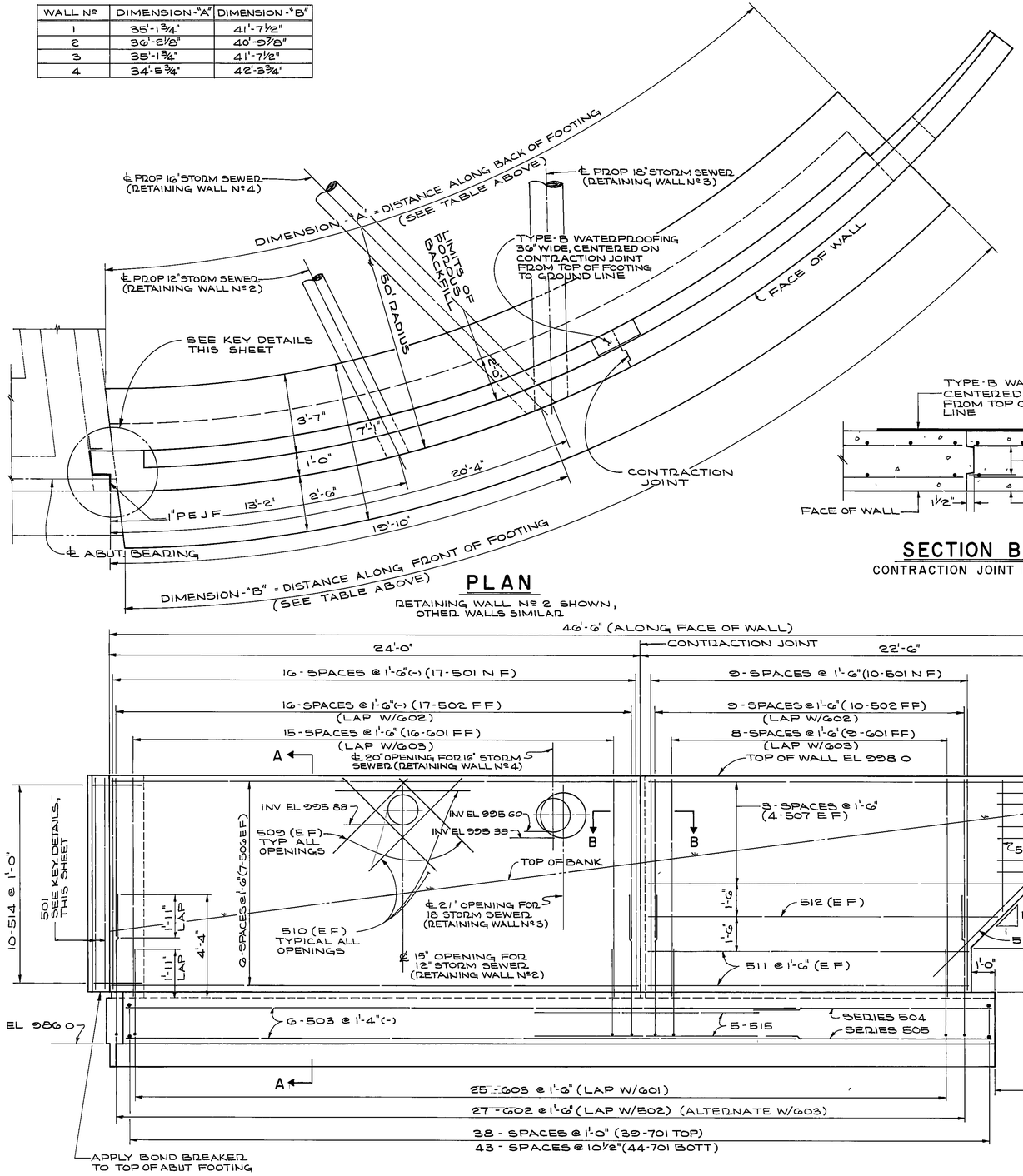
DESIGNED	CHECKED	
JDP	RDH	7
DRAWN ECR / TMJ	APPROVED RDH	7

1980-032-00

ACC No. 17711
DWG. No 9517

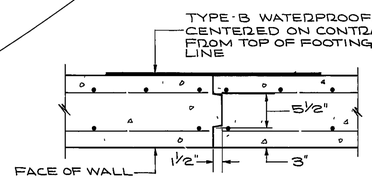
KELLY AVENUE
PART I

WALL Nº	DIMENSION-"A"	DIMENSION-"B"
1	35'-1¾"	41'-7½"
2	36'-2⅛"	40'-5⅞"
3	35'-1¾"	41'-7½"
4	34'-5¾"	42'-3¾"

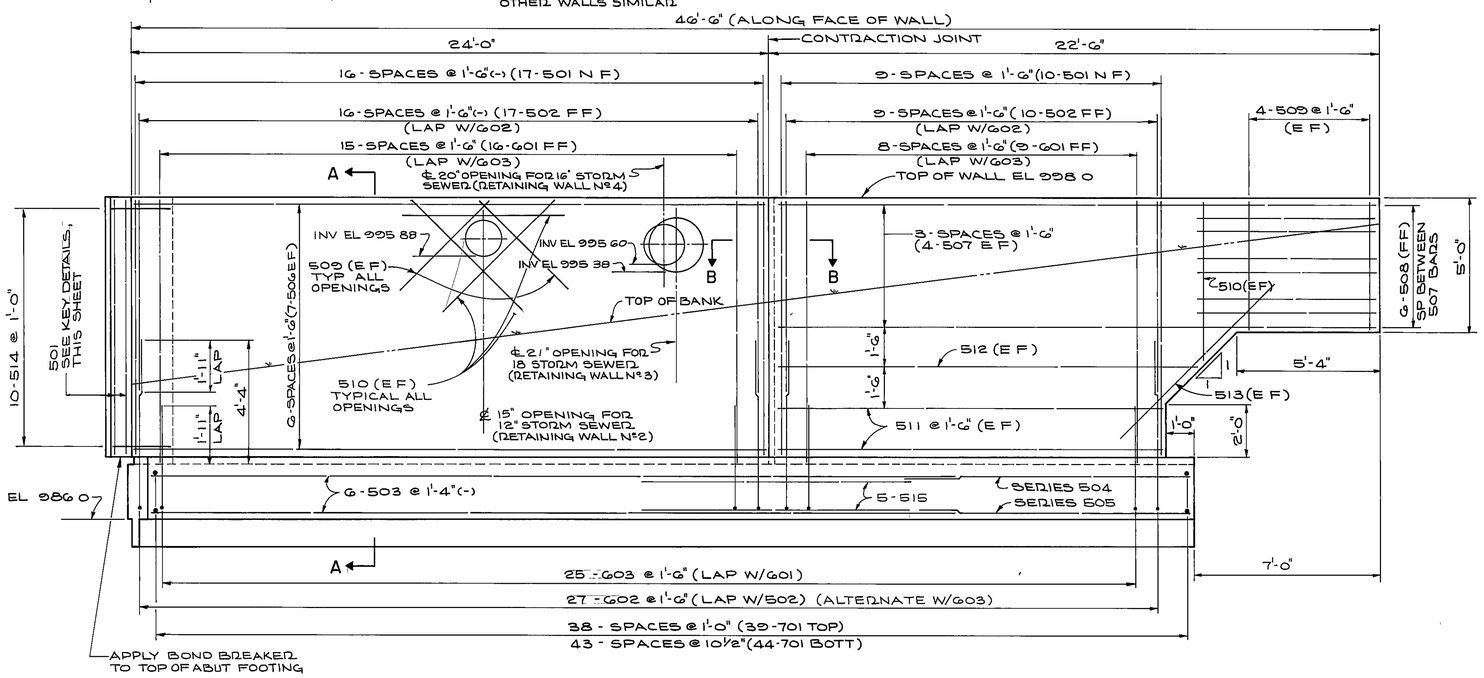


PLAN

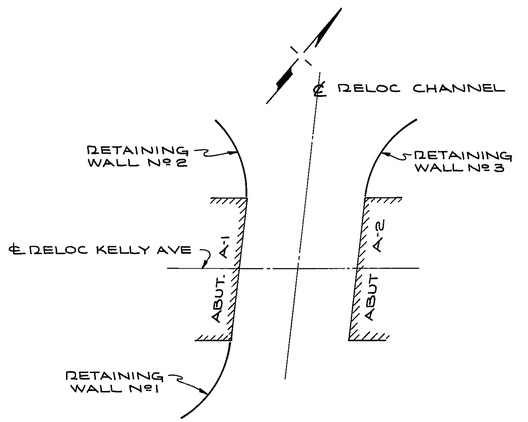
RETAINING WALL Nº 2 SHOWN, OTHER WALLS SIMILAR



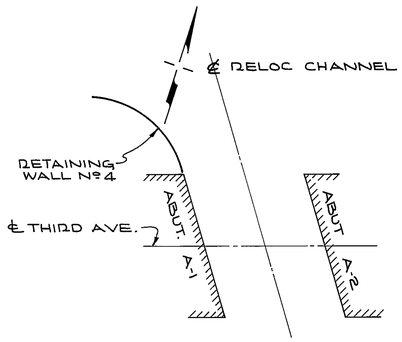
SECTION B-B
CONTRACTION JOINT DETAIL



ELEVATION

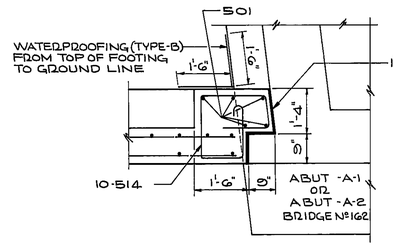


RELOC KELLY AVE

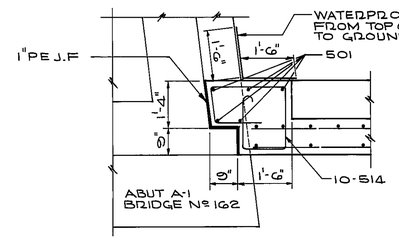


THIRD AVE.

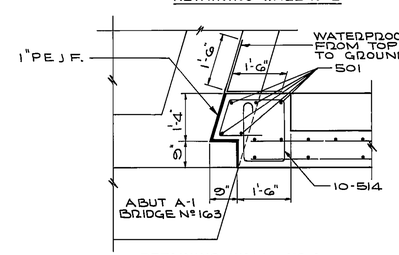
KEY PLANS



RETAINING WALL Nº1 SHOWN
WALL Nº3 SIMILAR

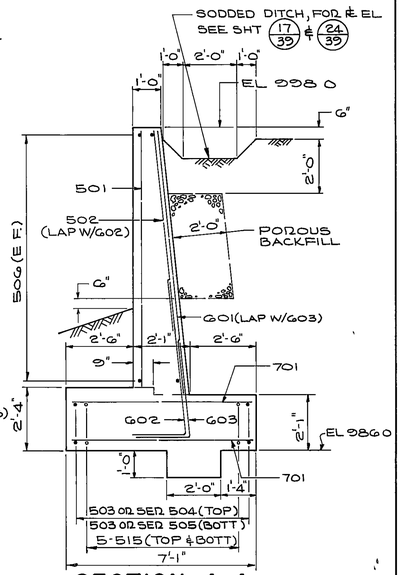


RETAINING WALL Nº2



RETAINING WALL Nº 4

KEY DETAILS



SECTION A-A

NOTES

1. THE PREFIX 1RW, 2RW, 3RW AND 4RW SHALL BE ADDED TO ALL REINFORCING BAR MARKS IN RETAINING WALL Nº1, 2, 3 AND 4 RESPECTIVELY
2. ABBREVIATIONS USED ARE
   N F = NEAR FACE
   F F = FAR FACE
   E F = EACH FACE
3. FOR ADDITIONAL NOTES, SEE SHEET 2/2

CITY OF AKRON

adache - ciuni - lynn associates
CONSULTING ENGINEERS AKRON OHIO 44313

RETAINING WALL DETAILS

CITY OF AKRON BRIDGE Nº'S 162 & 163

DESIGNED	E A F	CHECKED	E.A.F/RDH	1 / 2
DRAWN	J D P	APPROVED	R D H	

1980-032-00

ACC No. 17711
DWG No 9516

ADACHE CIUNI LYNN ASSOC
CALC BY DATE
CHKD BY DATE

REINFORCING SCHEDULE

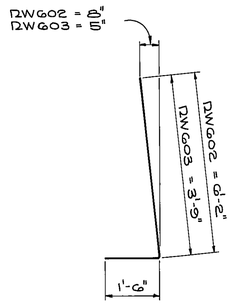
MARK	NO. REQ'D.	LENGTH	TYPE	INCRM.	WT. (LBS.)
		RETAINING WALL NO. 1			
1RW501	32	9'-6"	ST.		317
1RW502	27	7'-4"	ST.		207
1RW503	12	30'-0"	ST.		375
1RW504	1-SET OF 6	6'-8" TO 13'-1"	ST.	1'-3 3/8"	62
1RW505	1-SET OF 6	6'-2" TO 12'-7"	ST.	1'-3 3/8"	59
1RW506	14	23'-8"	ST.		346
1RW507	8	22'-2"	ST.		185
1RW508	6	6'-10"	ST.		43
1RW509	8	4'-8"	ST.		39
1RW510	2	6'-0"	ST.		13
1RW511	4	14'-2"	ST.		59
1RW512	2	15'-6"	ST.		32
1RW513	2	8'-0"	ST.		17
1RW514	10	8'-10"	2		92
1RW515	10	10'-0"	ST.		104
1RW601	25	9'-9"	ST.		366
1RW602	27	7'-6"	1		304
1RW603	25	5'-1"	1		191
1RW701	83	6'-7"	ST.		1117
				TOTAL RETAINING WALL NO.1=	3928
		RETAINING WALL NO. 2			
2RW501	32	9'-6"	ST.		317
2RW502	27	7'-4"	ST.		207
2RW503	12	30'-0"	ST.		375
2RW504	1-SET OF 6	7'-8" TO 12'-4"	ST.	11 1/4"	63
2RW505	1-SET OF 6	7'-2" TO 11'-10"	ST.	11 1/4"	59
2RW506	14	23'-8"	ST.		346
2RW507	8	22'-2"	ST.		185
2RW508	6	6'-10"	ST.		43
2RW509	12	4'-8"	ST.		58
2RW510	8	6'-0"	ST.		50
2RW511	4	14'-2"	ST.		59
2RW512	2	15'-6"	ST.		32
2RW513	2	8'-0"	ST.		17
2RW514	10	9'-1"	3		95
2RW515	10	10'-0"	ST.		104
2RW601	25	9'-9"	ST.		366
2RW602	27	7'-6"	1		304
2RW603	25	5'-1"	1		191
2RW701	83	6'-7"	ST.		1117
				TOTAL RETAINING WALL NO.2=	3988

MARK	NO. REQ'D.	LENGTH	TYPE	INCRM.	WT. (LBS.)
		RETAINING WALL NO. 3			
3RW501	32	9'-6"	ST.		317
3RW502	27	7'-4"	ST.		207
3RW503	12	30'-0"	ST.		375
3RW504	1-SET OF 6	6'-8" TO 13'-1"	ST.	1'-3 3/8"	62
3RW505	1-SET OF 6	6'-2" TO 12'-7"	ST.	1'-3 3/8"	59
3RW506	14	23'-8"	ST.		346
3RW507	8	22'-2"	ST.		185
3RW508	6	6'-10"	ST.		43
3RW509	12	4'-8"	ST.		58
3RW510	8	6'-0"	ST.		50
3RW511	4	14'-2"	ST.		59
3RW512	2	15'-6"	ST.		32
3RW513	2	8'-0"	ST.		17
3RW514	10	8'-10"	2		92
3RW515	10	10'-0"	ST.		104
3RW601	25	9'9"	ST.		366
3RW602	27	7'-6"	1		304
3RW603	25	5'-1"	1		191
3RW701	83	6'-7"	ST.		1117
				TOTAL RETAINING WALL NO.3=	3984
		RETAINING WALL NO. 4			
4RW501	32	9'-6"	ST.		317
4RW502	27	7'-4"	ST.		207
4RW503	12	30'-0"	ST.		375
4RW504	1-SET OF 6	6'-0" TO 13'-10"	ST.	1'-6 3/4"	62
4RW505	1-SET OF 6	5'-6" TO 13'-4"	ST.	1'-6 3/4"	59
4RW506	14	23'-8"	ST.		346
4RW507	8	22'-2"	ST.		185
4RW508	6	6'-10"	ST.		43
4RW509	12	4'-8"	ST.		58
4RW510	8	6'-0"	ST.		50
4RW511	4	14'-2"	ST.		59
4RW512	2	15'-6"	ST.		32
4RW513	2	8'-0"	ST.		17
4RW514	10	8'-8"	2		90
4RW515	10	10'-0"	ST.		104
4RW601	25	9'-9"	ST.		366
4RW602	27	7'-6"	1		304
4RW603	25	5'-1"	1		191
4RW701	83	6'-7"	ST.		1117
				TOTAL RETAINING WALL NO.4=	3982
				TOTAL ALL WALLS =	15,882

ESTIMATED QUANTITIES

ITEM	TOTAL	UNIT	DESCRIPTION	WALL-1	WALL-2	WALL-3	WALL-4
503	176	C.Y.	UNCLASSIFIED EXCAVATION	13	0	0	163
509	15882	LBS	REINFORCING STEEL	3928	3988	3984	3982
511	100	C Y	CLASS-C CONCRETE, WALLS	25	25	25	25
511	100	C Y	CLASS-C CONCRETE, FOOTINGS	25	25	25	25
512	24	S Y	TYPE-B WATERPROOFING	6	6	6	6
518	28	C Y	POROUS BACKFILL	7	7	7	7
660	59	S Y	SODDING	15	15	14	15

BAR BENDING DIAGRAMS



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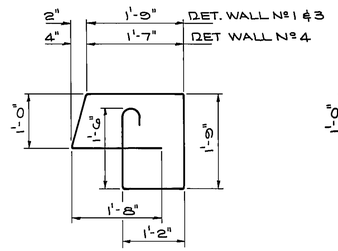

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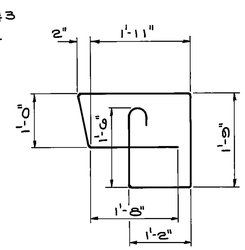


TYPE-3

NOTES

ALL HORIZONTAL BARS SHALL BE FIELD BENT TO CONFORM TO THE REQUIRED WALL CURVATURE. COST OF THE FIELD BENDING TO BE INCLUDED FOR PAYMENT WITH ITEM-509, " REINFORCING STEEL ".

THE KEY FOR RETAINING WALL FOOTINGS SHALL BE PLACED IN A CAREFULLY MADE TRENCH AGAINST UNDISTURBED EARTH.

REINFORCING STEEL SHALL BE CUT TO OBTAIN 2" CLEARANCE AT THE OPENINGS FOR THE PROPOSED STORM SEWERS. COST OF CUTTING BARS TO BE INCLUDED FOR PAYMENT WITH ITEM -509, "REINFORCING STEEL."

STORM SEWER CONDUIT SHALL BE CENTERED IN THE OPENING PROVIDED. THE SPACE BETWEEN THE CONDUIT AND WALL OPENING SHALL BE FILLED WITH JOINT SEALER (705.02). THE COST OF FORMING AND SEALING THE OPENINGS SHALL BE INCLUDED FOR PAYMENT WITH ITEM-511, CLASS-C CONCRETE, "RETAINING WALLS."

KELLY AVENUE
PART I

32/39

CITY OF AKRON
adache - ciuni - lynn associates
CONSULTING ENGINEERS AKRON OHIO 44313
REINFORCING SCHEDULE & EST. QUANTITIES
CITY OF AKRON BRIDGE Nos. 162 & 163

DESIGNED	EAF	CHECKED	RDH	2
DRAWN	JDP	APPROVED	RDH	2

Acc. No. 17711
Dwg No 9515

1980-032-00

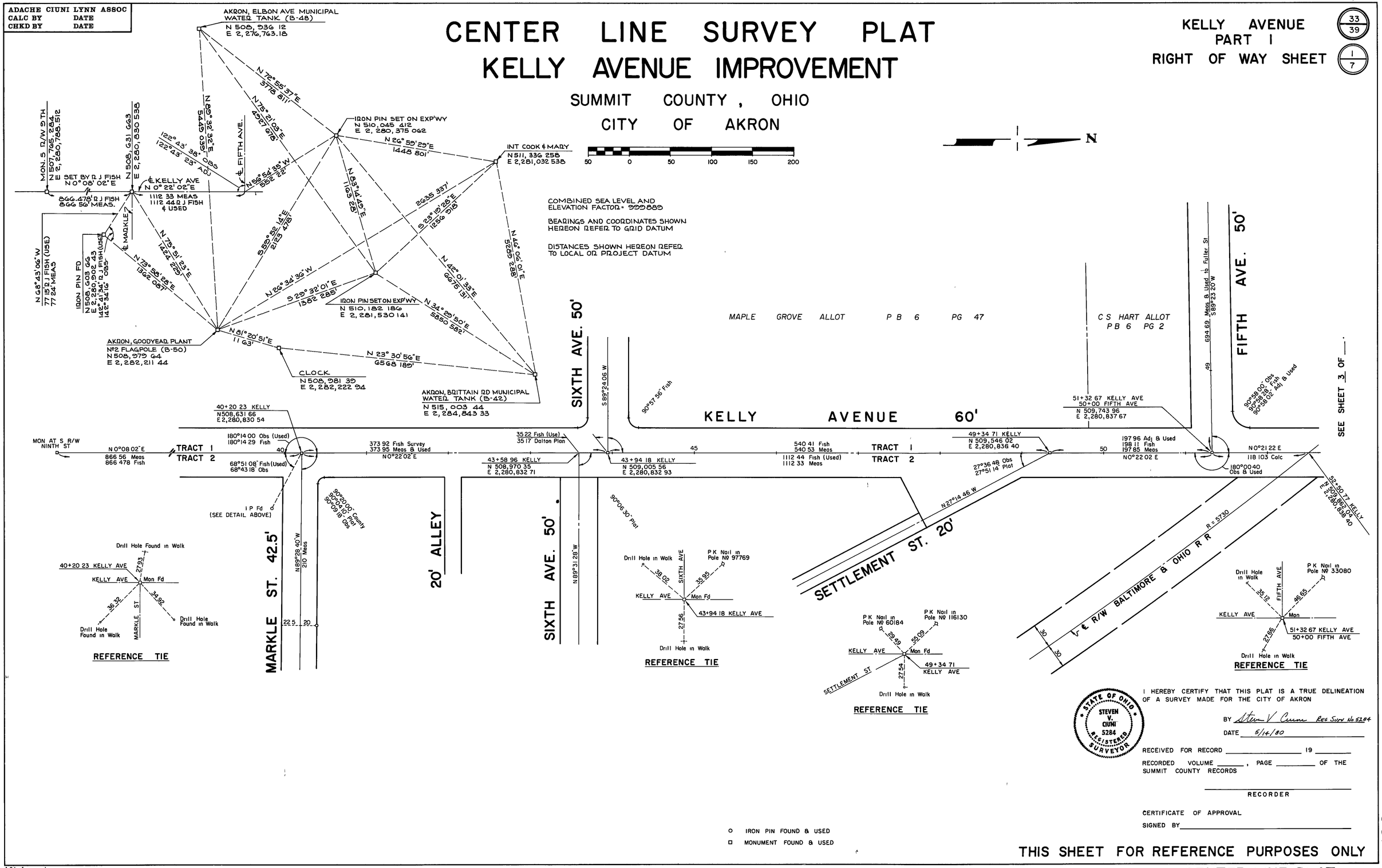
ADACHE CIUNI LYNN ASSOC
CALC BY DATE
CHKD BY DATE

CENTER LINE SURVEY PLAT
KELLY AVENUE IMPROVEMENT

SUMMIT COUNTY, OHIO
CITY OF AKRON

KELLY AVENUE
PART I
RIGHT OF WAY SHEET

33/39
1/7



O IRON PIN FOUND & USED
□ MONUMENT FOUND & USED

I HEREBY CERTIFY THAT THIS PLAT IS A TRUE DELINEATION OF A SURVEY MADE FOR THE CITY OF AKRON

STATE OF OHIO
STEVEN V. CIUNI
5284
REGISTERED SURVEYOR

BY Steven V Ciuni Reg Surv No 5284
DATE 5/14/80

RECEIVED FOR RECORD _____ 19 _____
RECORDED VOLUME _____, PAGE _____ OF THE SUMMIT COUNTY RECORDS

RECORDER

CERTIFICATE OF APPROVAL
SIGNED BY _____

THIS SHEET FOR REFERENCE PURPOSES ONLY

1980-032-00

ACL form no 1

Acc No. 17911
Dwg. No. A-9514

CENTER LINE PLAT

ADACHE CIUNI LYNN ASSOC
CALC BY DATE
CHKD BY. DATE

CENTER LINE SURVEY PLAT
KELLY AVENUE IMPROVEMENT

SUMMIT COUNTY , OHIO
CITY OF AKRON

KELLY AVENUE
PART I
RIGHT OF WAY SHEET 2 / 7
34 / 39

N

50 0 50 100 150 200

FULLER ST. 50'

FOURTH AVE. 50'

HART STREET

P K Nail

10+00 THIRD AVE
20+48 23 FULLER ST
N 510,336 47
E 2,280,147 08

N 510,642 23
E 2,280,147 36

498 61 I 76 Plans
497 92 Dalton Plans
497 92 Meas

RIVER ST. 40'

SEE DETAIL 'A' RIGHT

N 509,736 55
E 2,280,143 09

300 00 Rec N 0°22 51 E
600 77 Meas on Traverse Line (Third Ave to Fifth Ave)
(599 95 Dalton Plans) (Use 600 Record)

N 510,124 09
E 2,280,145 67

300 00 Rec
212 14 I 76 Plans
212 403 Calc from Meas Distance

Reset point from record

305 17 I 76 Plans
305 22 Meas
306 00 Rec (Use)
N 0°03 05 E

N 510,642 55
E 2,280,159 02

180°24 18 Obs
180°19 46 Adj at reset point

25

89°00 40 Obs
89°00 29 I 76 Plans
89°00 29 Adj & Used

EASEMENT TO STATE OF OHIO

I-76

LA

To Akron Elbon Ave Municipal Water Tank N72°55 37 E 3778 81

LP Set on I-76 N 510,045 41 E 2,280,375 06

73°59 02 Set

THERE IS A CONSIDERABLE AMOUNT OF DISCREPANCY ON EXISTING PLANS ALONG FULLER ST FROM FIFTH AVE TO SECOND AVE. AN ATTEMPT HAS BEEN MADE TO RE ESTABLISH RECORD BY USING FIELD INFORMATION

C S HART ALLOT
P B 6 PG 2

THIRD AVENUE 50'

349 407
443 938

N 73°36 11 W

69 97 Meas
N 510,643 13
E 2,280,217 31

52°00 Plat
52°04 19 Obs

Ⓐ 129°49 54" Obs
129°50 12" Adj
Ⓑ 133°02 00" Obs
133°01 45" Adj
Ⓒ 97°08 06" Obs
97°08 03" Adj
Ⓓ 132°47 04 Obs
132°47 51 Adj
Ⓔ 149°06 04" Obs
149°05 56 Adj
Ⓕ 78°06 42 Obs
78°06 13 Adj
Ⓖ 16°04 06" Obs
16°04 11 Adj
Ⓗ 39°50 36" Obs & Used
Ⓘ 2°57 18" Obs
2°57 39 Adj
Ⓙ 57°15 42 Obs
57°15 57 Adj

To Kelly & Fifth 1556 35 E
2123 478 To Flagpole at Clock

552 22 Meas

1163 28 Meas to I P on I-76 N 83°14 49 E

To ℄ Market St at Kelly 1075 04 Meas 1075 068 Calc N 25°57 22" E 667 5 131

N 42°01 33" E To Bridge Rd in Water Tank

KELLY AVE

EASEMENT TO STATE OF OHIO

CS HART ALLOT
PB 6 PG 2

PARCEL 'F' BLOCK I

℄ R/W B&O R R
N 38°29 56" W

℄ R/W BALTIMORE & OHIO R R
546 11 Calc
956 57 Railroad Plat (PC to ℄ Second Ave)
N 38°29 56" W

BLOCK I

SECOND AVENUE 60'

SECOND AVE TO BE VACATED
FULLER ST TO KELLY AVE

696 05 Calc & Used
690 50 I-76 Plans
695 31 Dalton Plans
695 46 Meas
N 89°25 54 E

PARCEL 'B'

FIFTH AVENUE 50'

694 69 Meas
S 89°23 20 W

Drill Hole in Walk
P K Nail in Pole NS 33080
FIFTH AVE
KELLY AVE
Mon
35 12
46 55
27 56
51+32 67 KELLY AVE
50+00 FIFTH AVE

REFERENCE TIE

① ℄ S KELLY AVE
PC 52+82 63 TO
℄ THIRD AVE

Δ = 24°46 58
R = 716 198
T = 157 354
C = 307 376
L = 309 785

② ℄ THIRD AVE
PC 14+43 94 TO
PT 16+95 31

Δ = 21°22 00
R = 674 068
T = 127 163
C = 249 919
L = 251 373

P K Nail in Pole NS 69766
Drill Hole in Walk
62 43
33 23
39 75
Bldg
THIRD AVE
FULLER STREET
Drill Hole on Catch Basin
35 30
44 88
Drill Hole in Walk
P K Nail
10+00 THIRD AVE
20+48 23 FULLER
PROP THIRD AVE
43 19
Mohawk Tire Bldg
SECOND AVE
RIVER ST

REFERENCE TIE

89°23 36" Obs
89°23 25 I-76 Plan
SECOND AVE
1919 Survey
52°22 00 1919 Survey
52°22 45 Obs
52°42 00 Rec
14 30
16 35
(1 P Fd)
℄ Fence is W Line of River St (Rec)
℄ ℄ River St (1919 Survey)
16 67
℄ ℄ River St using 60' R/W for R R
℄ ℄ River St (1919 Survey)
FULLER ST
90°32 46" Obs 76 Plan
90°56 05" Obs & Used
90°37 11 Adj
50 92
30 Rec
(1918 Survey)
℄ R/W B&O R R
N 89°25 54" E
69 97 Meas & Used

DETAIL

SEE SHEET 2 OF —

51+32 67 KELLY AVE
50+00 FIFTH AVE
N 509,743 96
E 2,280,837 67

TRACT 1
TRACT 2
50 N 0°22 02 E
180°00 40 Obs & Used
N 0°21 22 E
149 962 Calc
118 103 Calc

63 476
43 211
R&R
℄ R/W B&O R R
N 38°29 56" W
N 509,894 58
E 2,280,812 71
6547
294 065 Calc
183 124 Calc
55
10941
1

PORTIONS OF KELLY AVE TO BE VACATED

PT 16+95 31
N 510,186 28
E 2,280,821 57

55+76 70 KELLY AVE
17+14 24 THIRD AVE
N 510,187 92
E 2,280,840 43

461 473 Calc N 0°21 22 E
905 50 Meas & Used (Fifth Ave to Second Ave)
905 56 Dalton Plans

TRACT 1
TRACT 2
60

60+38 17 KELLY AVE
N 510,649 34
E 2,280,843 29

SEE SHEET 4 OF —

89°40 06" Obs
89°39 53 Dalton Plans
89°40 03 I-76 Plan
89°40 45" Adj & Used
89°04 32" Adj & Used

R = 5730
52+50 77 KELLY
N 509,862 04
E 2,280,838 40

PC 52+82 63
N 508,853 90
E 2,280,638 60

54+65 75 KELLY
N 510,076 999
E 2,280,839 74

55+92 42 SOUTH KELLY AVE
17+80 48 THIRD AVE
N 510,193 65
E 2,280,906 42

55 ℄ SOUTH KELLY AVE

KELLY AVENUE 60'

SEE SHEET 4 OF —

MONUMENT ASSEMBLIES TO BE SET

KELLY AVE - PC STA 52+82 63
THIRD AVE - STA 10+26 01 (E R/W FULLER)
PC STA 14+43 94
PT STA 16+95 31

○ IRON PIN FOUND & USED
□ MONUMENT FOUND & USED
■ MONUMENT ASSEMBLIES TO BE SET

STATE OF OHIO
STEVEN V. CIUNI
5284
REGISTERED SURVEYOR

I HEREBY CERTIFY THAT THIS PLAT IS A TRUE DELINEATION OF A SURVEY MADE FOR THE CITY OF AKRON

BY Steven V Ciuni Reg Surv No 5284

DATE 5/14/80

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RECORDED VOLUME _____, PAGE _____ OF THE SUMMIT COUNTY RECORDS

_____
RECORDER

CERTIFICATE OF APPROVAL

SIGNED BY _____

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1980-032-00

ACL form no 1

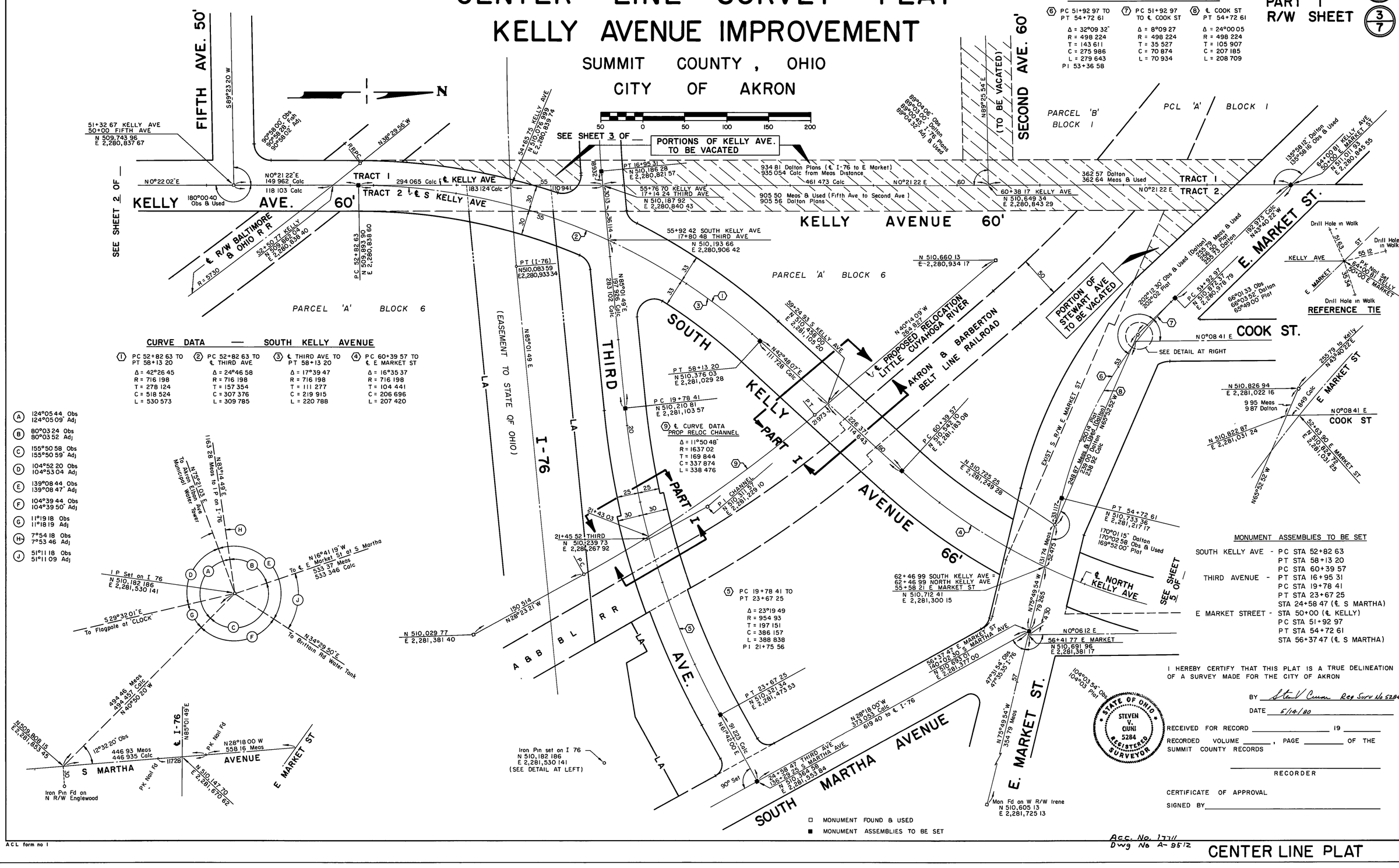
Asc No 17711
Dwg No A-9513

CENTER LINE PLAT

ADACHE CIUNI LYNN ASSOC
CALC BY DATE
CHKD.BY DATE

CENTER LINE SURVEY PLAT
KELLY AVENUE IMPROVEMENT
SUMMIT COUNTY , OHIO
CITY OF AKRON

KELLY AVENUE PART I R/W SHEET 3 of 7 (35/39)



CURVE DATA — SOUTH KELLY AVENUE

① PC 52+82 63 TO PT 58+13 20	② PC 52+82 63 TO ℄ THIRD AVE	③ ℄ THIRD AVE TO PT 58+13 20	④ PC 60+39 57 TO ℄ E MARKET ST
Δ = 42°26 45	Δ = 24°46 58	Δ = 17°39 47	Δ = 16°35 37
R = 716 198	R = 716 198	R = 716 198	R = 716 198
T = 278 124	T = 157 354	T = 111 277	T = 104 441
C = 518 524	C = 307 376	C = 219 915	C = 206 696
L = 530 573	L = 309 785	L = 220 788	L = 207 420

CURVE DATA - E MARKET ST

⑥ PC 51+92 97 TO PT 54+72 61	⑦ PC 51+92 97 TO ℄ COOK ST	⑧ ℄ COOK ST PT 54+72 61
Δ = 32°09 32"	Δ = 8°09 27	Δ = 24°00 05
R = 498 224	R = 498 224	R = 498 224
T = 143 611	T = 35 527	T = 105 907
C = 275 986	C = 70 874	C = 207 185
L = 279 643	L = 70 934	L = 208 709
PI 53+36 58		

⑨ ℄ CURVE DATA PROP RELOC CHANNEL
Δ = 11°50 48"
R = 1637 02
T = 169 844
C = 337 874
L = 338 476

⑤ PC 19+78 41 TO PT 23+67 25
Δ = 23°19 49
R = 954 93
T = 197 151
C = 386 157
L = 388 838
PI 21+75 56

Ⓐ 124°05 44" Obs 124°05 09" Adj
Ⓑ 80°03 24 Obs 80°03 52 Adj
Ⓒ 155°50 58 Obs 155°50 59" Adj
Ⓓ 104°52 20 Obs 104°53 04 Adj
Ⓔ 139°08 44 Obs 139°08 47" Adj
Ⓕ 104°39 44 Obs 104°39 50" Adj
Ⓖ 11°19 18 Obs 11°18 19 Adj
Ⓗ 7°54 18 Obs 7°53 46 Adj
Ⓙ 51°11 18 Obs 51°11 09 Adj

MONUMENT ASSEMBLIES TO BE SET

SOUTH KELLY AVE -	PC STA 52+82 63
	PT STA 58+13 20
	PC STA 60+39 57
THIRD AVENUE -	PT STA 16+95 31
	PC STA 19+78 41
	PT STA 23+67 25
	STA 24+58 47 (℄ S MARTHA)
E MARKET STREET -	STA 50+00 (℄ KELLY)
	PC STA 51+92 97
	PT STA 54+72 61
	STA 56+37 47 (℄ S MARTHA)

I HEREBY CERTIFY THAT THIS PLAT IS A TRUE DELINEATION OF A SURVEY MADE FOR THE CITY OF AKRON

BY Steven V Ciuni Reg Surv No 5284

DATE 5/14/80

STATE OF OHIO STEVEN V. CIUNI 5284 REGISTERED SURVEYOR

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SIGNED BY _____

Acc. No. 17711
Dwg No A-9512

1980-032-00

ACL form no 1

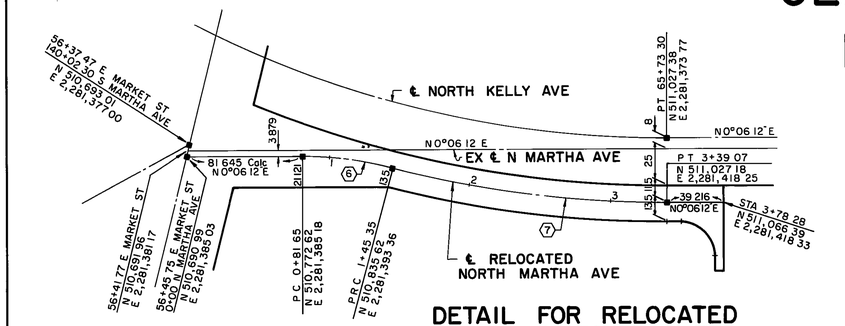
CENTER LINE PLAT

ADACHE CIUNI LYNN ASSOC
CALC BY DATE
CHKD BY DATE

CENTER LINE SURVEY PLAT
KELLY AVENUE IMPROVEMENT

SUMMIT COUNTY, OHIO
CITY OF AKRON

KELLY AVENUE PART I
RIGHT OF WAY SHEET 4 / 7
36 / 39



DETAIL FOR RELOCATED NORTH MARTHA AVE.

CURVE DATA - EAST MARKET STREET

(1) PC 51+92 97 TO PT 54+72 61
Δ = 32°09 32
R = 498 224
T = 143 611
C = 275 986
L = 279 643

(2) PC 51+92 97 TO ℄ COOK ST
Δ = 8°09 27
R = 498 224
T = 35 527
C = 70 874
L = 70 934

(3) ℄ COOK ST TO PT 54+72 61
Δ = 24°00 05"
R = 498 224
T = 105 907
C = 207 185
L = 208 709

CURVE DATA NORTH KELLY AVENUE

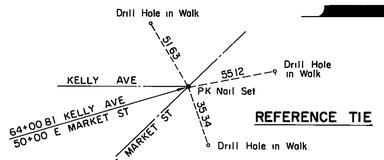
(4) PC 60+39 57 TO PT 65+73 30
Δ = 42°41 55
R = 716 198
T = 279 944
C = 521 468
L = 533 733

(5) ℄ MARKET ST TO PT 65+73 30
Δ = 26°06 18
R = 716 198
T = 166 039
C = 323 498
L = 326 313

CURVE DATA NORTH MARTHA AVENUE

(6) PC 0+81 65 TO PRC 1+45 35
Δ = 14°36 01"
R = 250 00
T = 32 036
C = 63 534
L = 63 706

(7) PRC 1+45 35 TO PT 3+39 07
Δ = 14°36 01
R = 760 198
T = 97 385
C = 193 192
L = 193 716



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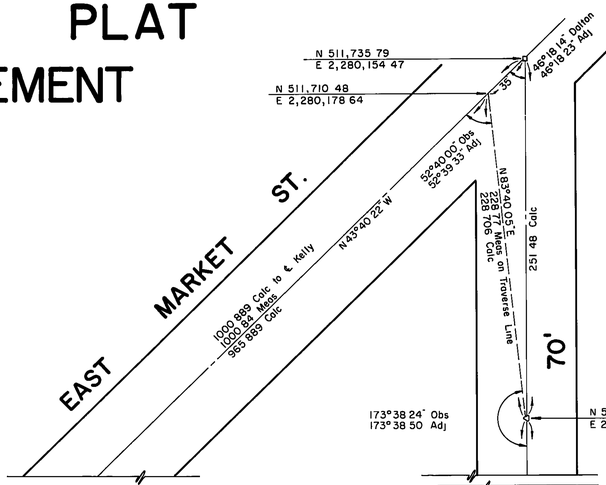

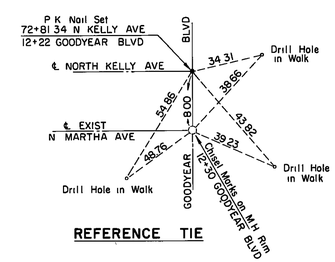

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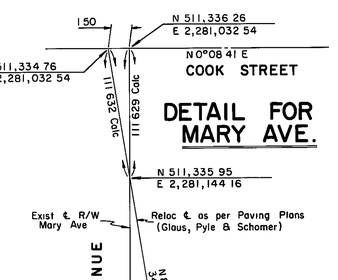

I HEREBY CERTIFY THAT THIS PLAT IS A TRUE DELINEATION OF A SURVEY MADE FOR THE CITY OF AKRON

BY Steven V Ciuni Reg Surv No 5284
DATE 5/14/80

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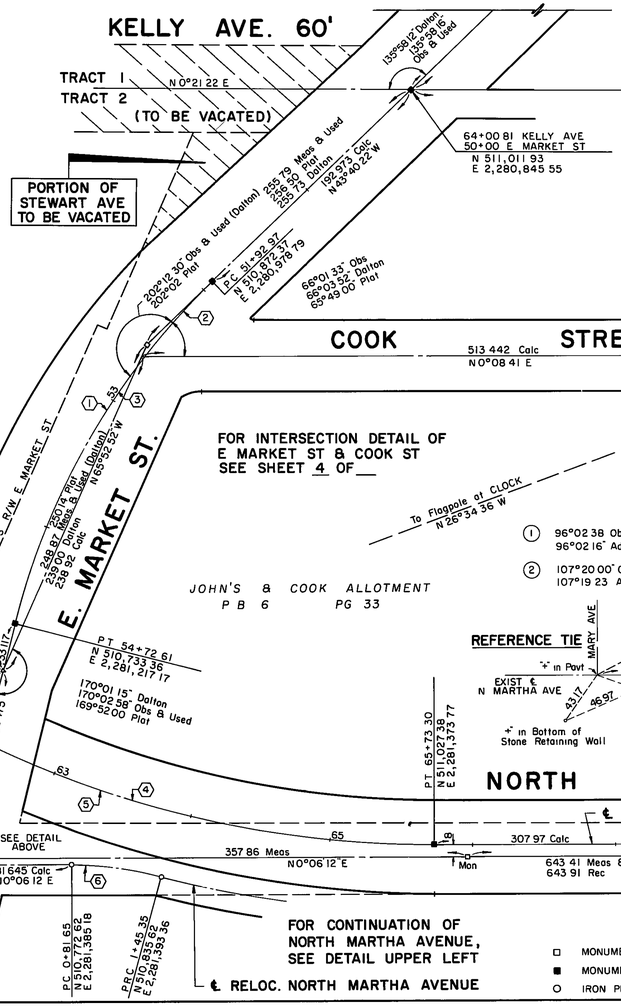
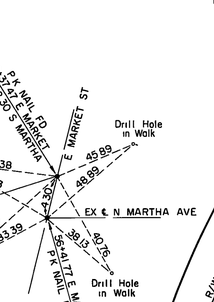
SIGNED BY _____

KELLY AVE. 60'





REFERENCE TIE

FOR SOUTH KELLY AVE SEE SHEET 4 OF __

MONUMENT ASSEMBLIES TO BE SET

NORTH KELLY AVE - PT STA 65+73 30
STA 68+84 36
STA 68+87 67
STA 72+81 34
EAST MARKET ST - STA 50+00 (℄ KELLY)
PC STA 51+92 97
PT STA 54+72 61
STA 56+37 47
STA 56+45 75
NORTH MARTHA AVE - PC STA 0+81 65
PRC STA 1+45 35
PT STA 3+39 07

□ MONUMENT FOUND & USED
■ MONUMENT ASSEMBLY TO BE SET
○ IRON PIN FOUND & USED

THIS SHEET FOR REFERENCE PURPOSES ONLY

ACC. No 17711
Dwg. No A-9511

CENTER LINE PLAT

1980-032-00

ACL form no 1

ADACHE CIUNI LYNN ASSOC
CALC BY DATE
CHKD BY DATE

PROPERTY MAP

KELLY AVENUE
PART I
RIGHT OF WAY SHEET

37/39

5/7

SCALE IN FEET
100 0 100 200

N

C S HART ALLT PB 6 PG 2

RIVER STREET

FULLER STREET

FIFTH AVENUE

SIXTH AVENUE

MAPLE GROVE ALLT PB 6 PG 47

C S HART ALLT PB 6 PG 2

CITY OF AKRON

℄ I-76

BALTIMORE & OHIO RR

AKRON HYDRAULICS PRESS COMPANY, INC

THIRD AVENUE

SECOND AVENUE (TO BE VACATED)

AKRON & BARBERTON BELTLINE RR

GOODYEAR TIRE & RUBBER CO

KELLY AVENUE

(TO BE VACATED)

TRACT 1
TRACT 2

MARKLE STREET

20' ALLEY

SETTLEMENT STREET

EASEMENT TO STATE OF OHIO

BEGIN WORK STA 20+82

BEGIN WORK STA 58+80

PROP BRIDGE NO 162

PROP BRIDGE NO 163

RELOC LITTLE CUYAHOGA RIVER (BY OTHERS)

END WORK STA 59+75.35

END WORK STA 21+82.53

S. KELLY AVENUE

NATIONAL CITY BANK OF CLEVELAND TRUSTEE

S. MARTHA AVENUE

E. MARKET STREET

PORTION OF STEWART AVENUE (NOW KNOWN AS E MARKET ST.) TO BE VACATED

JAMES ALLT PB 6 PG 37

COOK STREET

JOHNS & COOK ALLT PB 6 PG 33

MARY AVE.

GOODYEAR BOULEVARD

YM CA OF AKRON, INC

BOARD OF EDUCATION

KELLY AVENUE
FORMERLY N MARTHA AVE (50)

TO BE DEDICATED AS N MARTHA AVE

STREETS TO BE VACATED BY PLAT

① H & N COLLINS	⑲ L SPRAGLING	㊱ T CASH, ET AL
② A E CODY	⑳ J R MALONE, ET AL	㊲ N & K LARDAKIS
③ J. & E SMITH	㉑ M P KRONENTHAL	㊳ 125 INC
④ R & C WATSON	㉒ A MAJERNIK	㊴ W WALLACE
⑤ W B WILSON	㉓ A MINSON & E B MINSON	㊵ R D WARREN & P PFEFFER
⑥ C. BURKHOLDER	㉔ I.M MANNING	㊶ F MCCOY
⑦ M & R TAYLOR	㉕ CITY OF AKRON	㊷ F MINSON
⑧ A E CODY	㉖ GOODYEAR TIRE & RUBBER CO	㊸ M KRONENTHAL, ET AL
⑨ J.D. & L.A DOVE	㉗ J R YACOVAZZI	㊹ GOODYEAR TIRE & RUBBER CO
⑩ W GOODALL	㉘ J P KLODZEN & E HORN	㊺ M THACKER
⑪ V.D EPPELEIN & N.M TURNER	㉙ A E CODY	㊻ NATIONAL CITY BANK OF CLEVELAND TRUSTEE
⑫ I BENNETT	㉚ W H & T.L BUFFORD	㊼ GOODYEAR TIRE & RUBBER CO.
⑬ F & I THOMAS	㉛ M A KNIGHT CO	㊽ JAMES PLATIS
⑭ R CHERRY, ET AL	㉜ M A KNIGHT CO	㊾ EMORY C GELLER
⑮ L HORN	㉝ B & P JACOBS	㊿ FRANK H GILBERT & GENEVA C. GILBERT
⑯ J. & T MICCHIAROLE	㉞ P JACOBS	㊿① GRACE MORRIS & RUTH HALL
⑰ E HORN	㉟ M A KNIGHT CO	㊿② HAYMOND BRANDY KEENER
⑱ B TAYLOR		

ACL form, no 1

1980-032-00

Acc No 17711
Dwg No A-9570

ADACHE CIUNI LYNN ASSOC
CALC BY DATE
CHKD BY DATE

SUMMIT COUNTY
KELLY AVENUE
PART I
RIGHT OF WAY SHEET

38/39 — 6/7

MATCH LINE STA. 58+00

SOUTH KELLY AVE 66'

GOODYEAR TIRE & RUBBER CO
PARCEL 'A' BLOCK 6

GOODYEAR TIRE & RUBBER CO
PARCEL 'A' BLOCK 6

AKRON & BARBERTON BELT LINE RAILROAD

AKRON & BARBERTON BELT LINE RAILROAD

℄ RELOC. LITTLE CUYAHOGA RIVER

℄ PRIVATE DRIVE

NATIONAL CITY BANK OF CLEVELAND TRUSTEE

GRAVEL PARKING LOT

NATIONAL CITY BANK OF CLEVELAND TRUSTEE

GRAVEL PARKING LOT

℄ SOUTH KELLY AVE

FOR EAST MARKET ST SEE SHEET — OF —

E. MARKET ST.

S. MARTHA AVENUE 60'

DF GELLER TR

JAMES PLATIS

EC GELLER

GOODYEAR TIRE & RUBBER

BILLBOARD

NORTH KELLY AVENUE 66'

℄ N KELLY AVE

EXIST ℄ N MARTHA AVE

℄ RELOCATED N. MARTHA AVE.

FRANK H GILBERT & GENEVA C GILBERT

GRACE MORRIS & RUTH HALL

HAYMOND BRANDY KEENER

BOARD OF EDUCATION

MATCH LINE STA. 67+00

CURVE DATA - N MARTHA AVE

④ PC 0+81 65 TO PRC 1+45 35
Δ = 14°36 01
R = 250 00
T = 32 036
C = 63 534
L = 63 706

⑤ PRC 1+45 35 TO PT 3+39 07
Δ = 14°36 01
R = 760 198
T = 97 385
C = 193 192
L = 193 716

CURVE DATA - KELLY AVENUE

① PC 60+39 57 TO PT 65+73 30
Δ = 42°41 55
R = 716 198
T = 279 944
C = 521 468
L = 533 733

② PC 60+39 57 TO ℄ MARKET ST
Δ = 16°35'37
R = 716 198
T = 104 441
C = 206 696
L = 207 420

③ ℄ MARKET ST TO PT 65+73 30
Δ = 26°06 18
R = 716 198
T = 166 039
C = 323 498
L = 326 313

DETAIL - RELOC. N. MARTHA AVE.

JOHN'S & COOK ALLOT P B 6 PG 33

GRAPHIC SCALE
0 30 60 90 120

For additional information and calculations for Reloc N Martha Ave , see detail above

PRELIMINARY SUBMITTAL DATE RIGHT OF WAY COMPLETION DATE			
NO	REVISIONS	MADE BY	DATE

Acc. No 17711
Dwg. No A-9509

1980-032-00

ACL form no 1

KELLY AVENUE - STA. 58+00 TO 67+00

ADACHE CIUNI LYNN ASSOC
CALC BY DATE
CHKD BY. DATE

SUMMIT COUNTY
KELLY AVENUE
PART I
RIGHT OF WAY SHEET

39/39 — 7/7

C S HART ALLOT PB 6 PG 2

206 AKRON PRESS | 207 HYDRAULIC COMPANY, INC | 208 | 209

THIRD AVE. VAC ORD 214 - 1952

THIRD AVENUE 50'

FULLER STREET 50'

BALTIMORE & OHIO R.R. — ℄ R/W BALTIMORE & OHIO RAILROAD

6' CHAIN LINK FENCE

448 30 TO S LINE SECOND AVE

445 11 TO S LINE SECOND AVE

313 64

S 73°36'11"E

N 73°36'11"W 364 52

S 84°47'36"E 168 92

N 89°25'54"E 200 00

N 03°05'E

N 03°05'51"E

10+00 THIRD AVE

14+27 58 THIRD AVE AT ℄ R/W B&O R R

SUPPORT STEAM LINE FOR

P C 14+43 94 — SEE DETAIL A ABOVE

2 STY BRK BLDG

2 STY FR HSE

SIGN AS 8766

HEDGE ROW

EXIST 5' CONC WALK

EX CONC PAVT W/ CURBS

EX CONC APPR

86 47

CONSTR LIMITS

AKRON PRESS 227 | HYDRAULIC COMPANY, INC 226 | ALLOTMENT 225 | PB 6 PG 2 224 | C S HART 223 | 222

LA

6' TREE | 4' TREES | TWIN 6" TREE

12 | 13 | 14 | 15 | 16

DETAIL 'A'

PARCEL 'F' BLOCK 1

GOODYEAR TIRE & RUBBER CO

℄ R/W B & O R R N 38°29 56" W

483 502 SECOND TO S LINE N 38°29 56" W

51 919 | 0 252 | 232 94 | 41 332

THIRD AVE

P C 14+43 94

① ℄ CURVE DATA THIRD AVE
Δ = 21°22 00
R = 674 068
T = 127 163
C = 249 919
L = 251 373

TRACT 1 & EXIST KELLY AVE (TO BE VACATED)

TRACT 2

ASPH DR & CONC APPR

EXIST R/W

EXIST 5' CONC WALK

3" TREE

CONC ROAD

ASPH ROAD

EXIST 6' CHAIN LINK FENCE

CONC APPR

CAT WALK

SIGN

N 0°21 22" E

P T 14+92 48

232 94

4" POSTS

50 35

105

GUARD HOUSE

ASPHALT

CONC BLDG L

104 09

165 17

MATCH LINE STA. 19+00

MATCH LINE STA. 19+00

PARCEL 'A' BLOCK 6

GOODYEAR TIRE & RUBBER CO

4" POSTS

104 09

N 85°01 49" E

P C 19+78 41

THIRD AVE. 50'

165 17

135 03

113 54'

12" TRIPLE POPLAR

BEGIN WORK STA 20+82

END WORK STA 21+82 54

AKRON & BARBERTON BELT LINE R.R.

R = 1322 85

R = 1272 85

1551 SQ FT 0 03561 AC

1551 SQ FT 0 03561 AC

WA

2 WA

WA-1

2 WA-1

N 11°57'54" W 50

N 70°13'30" E 15

N 32°20'48" E 14 653

N 29°21'48" W 49 44

N 29°21 48 W

N 12°31'54" E

61 94 | 61 61 | 64 93 | 50 98 | 51 12 | 50 38 | 50 3 | 57 75

8" TREE | 6" TREE | 15" TREE | 3 6" TREES | 35' | 20' | 10' | 10' | 25'

TWIN 6" TREE

EX 20' SEWER EASEMENT

PROP 60" SEWER (BY OTHERS)

21+10 50

℄ RELOC LITTLE CUYAHOGA RIVER

CITY OF AKRON

GOODYEAR TIRE & RUBBER CO

PARCEL 'F' BLOCK 1

Portion of Existing Kelly Avenue to be Vacated

SOUTH KELLY AVE.

TRESTLE SUPPORTS FOR STEAM LINE

CONC BRIDGE PIERS

6' CHAIN LINK FENCE

② ℄ CURVE DATA SOUTH KELLY AVE
Δ = 42°26 45
R = 716 198
T = 278 124
C = 518 524
L = 530 573

FOR SOUTH KELLY AVE SEE SHEET __ OF __

GOODYEAR TIRE & RUBBER CO
PARCEL 'A' BLOCK 6

17+80 48 = 55+92 48 THIRD AVE SOUTH KELLY

17+14 24

TRESTLE SUPPORTS

6' POSTS

CONC APPR

ASPHALT & CONC APPROACH

SIGN

TWP

2 CONC BRIDGE PIERS

R = 21 T = 32 40

4 42

13 52

R = 21 T = 12 59

210 06

121 77

R = 20 T = 40 61

104 09

165 17

DETAIL 'B'

THIRD

22+30 18

22+17 21

1936

197 857 TO W LINE MARTHA AVE

12 751 N 61°42 00 E

N 29°21 48" W

③ ℄ CURVE DATA THIRD AVE
Δ = 23°19 49"
R = 954 93
T = 197 151
C = 386 157
L = 388 838

GOODYEAR TIRE & RUBBER CO

PARCEL 'A' BLOCK 6

NATIONAL CITY BANK OF CLEVELAND, TRUSTEE

CONSTRUCTION LIMITS

GOODYEAR TIRE & RUBBER CO

COOK COURT (PRIVATE)

22 | 23 | 24

P T 23+67 25

CURB RAMP

EXIST 6 5 CONC WALK

140 DEED 140 03

373 05 TO ℄ E MARKET ST

N 29°18 00" W

24+58 47 THIRD AVE = 136+29 25 S MARTHA AVE

S. MARTHA AVE. 60'

30' | 30' | 60'

R = 15 T = 15

46 22 | 149 52 | 150 54

210 00 DEED 211 00 DEED N 61°42'00" E 210 61 CALC

N 61°42'00" E

209 30 DEED 209 68 CALC

140 96 DEED N 61°42 00" E

39 31 DEED | 31 DEED

45 50 DEED 45 17

10 33

26 95 | 26 06 | 50 05 CALC | 50 00 DEED | 40 00

④ Δ = 12° 02' 48"
R = 60'
T = 6 331'
C = 12 592'
L = 12 615'
CB N 35° 57' 15" W

⑤ Δ = 3° 10' 00"
R = 924 93'
T = 25 566'
C = 51 113'
L = 51 120'
CB S 72° 36' 54" W

⑥ Δ = 3° 50' 12"
R = 924 93'
T = 30 979'
C = 61 924'
L = 61 935'
CB S 76° 07' 00" W

⑦ Δ = 0° 15' 53"
R = 929 93'
T = 2 148'
C = 4 296'
L = 4 296'
CB S 78° 10' 02 5" W

⑧ Δ = 0° 22' 49"
R = 1272 853'
T = 4 224'
C = 8 448'
L = 8 448'
CB S 29° 33' 12 5" E

GRAPHIC GRADE
0 30 60 90 120

PRELIMINARY SUBMITTAL DATE RIGHT OF WAY COMPLETION DATE			
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1980-032-00

ACL form no 1

Acc. No 13711
Dwg. No A-9508

THIRD AVENUE - STA. 10+00 TO 24+58.47