CONTRACT NO. C-34
COUNTY - SANDUSKY - ERIE
DATE:

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE PROJECT NO. 1

DESIGN SECTION D-12

CONTRACT NO. C-34

TURNPIKE CONSTRUCTION CONTRACT

STATION 1219+39 TO STATION 1281+20.97 - SANDUSKY COUNTY
STATION 0+00 TO STATION 134+16.88 - ERIE COUNTY

APPROVAL RECOMMENDED
BROWN & BLAUVELT
CONTRACTING ENGINEER
Harold A Blauvelt
Mar 6, 1953

APPROVED
J. E. GREINER CO.
CONSULTING ENGINEER
J. J. Jenkins Jr
5-25-53

APPROVED
OHIO TURNPIKE COMMISSION
M Kelley
CHIEF ENGINEER 5-29-53

B. K. Elliott Co., Cleveland, Ohio

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NO.	REVISION	BY	DATE
2	AS-BUILT PLANS		Feb 56
1	Rev. Std. dwg no. 8		11-23-53

OHIO TURNPIKE COMMISSION
OHIO TURNPIKE PROJECT NO. 1

LIST OF DRAWINGS

BROWN & BLAUVELT
CONTRACTING ENGINEER
DESIGN SECTION D-12

DESIGNED: DRAWN: P.A.H. CHECKED: H.S.N. IN CHARGE: DATE: March 6, 1953 SCALE: None

CONTRACT NO. C- 34 SHEET 1 OF 38

498-2608

2 M-12

CIVIL

ALL ELEVATIONS REFER TO THE U.S.C. & G.S. MEAN SEA LEVEL DATUM.

ALL CO-ORDINATES AND BEARINGS SHOWN ON THE PLANS ARE BASED ON THE LAMBERT CONFORMAL CONIC PROJECTION FOR THE STATE OF OHIO - NORTH ZONE.

THE THEORETICAL TURNPIKE GRADE LINE AS SHOWN ON THE PLANS REPRESENTS THE CENTER LINE OF BOTH TURNPIKE ROADWAYS PROJECTED TO THE CENTER LINE OF THE TURNPIKE.

LINES AND GRADES OF NEW PAVEMENTS WILL BE ADJUSTED TO MEET EXISTING PAVEMENTS AS DIRECTED BY THE ENGINEER.

THE PLANS PROVIDE FOR THE PERFORMANCE OF CERTAIN WORK, SUCH AS THE RELOCATION OF STREAMS, GRADED AREAS, ETC., OUTSIDE THE ESTABLISHED OHIO TURNPIKE AND/OR PUBLIC RIGHTS OF WAY. THE CONTRACTOR SHALL NOT ORDER MATERIALS NOR PROCEED WITH THIS WORK UNTIL SPECIFICALLY AUTHORIZED TO DO SO BY THE ENGINEER.

UTILITY

LOCATIONS OF EXISTING UTILITIES PUBLIC AND/OR PRIVATE AND FIELD TILE DRAINAGE AS SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THEIR EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

MAINTENANCE OF TRAFFIC

FOR MAINTENANCE OF TRAFFIC NOTES AND DETAILS SEE SHEET NO. 3.

CAST-IN-PLACE CONCRETE PILES (PIPE SHELLS)

CAST - IN-PLACE CONCRETE PILES SHALL BE STEEL PIPE PILES FILLED WITH CONCRETE. STEEL PIPE SHALL CONFORM TO A.S.T.M. A-252, AND SHALL HAVE A MINIMUM OUTSIDE DIAMETER OF 12" AND MINIMUM THICKNESS OF 5/16", AND SHALL BE DRIVEN WITHOUT POINT BUT WITH OPEN END TO REFUSAL IN ROCK. PILES UP TO TWENTY FEET IN LENGTH SHALL BE IN ONE PIECE; PILES FROM TWENTY TO FORTY FEET IN LENGTH SHALL HAVE NOT MORE THAN ONE SPLICE; PILES OVER FORTY FEET IN LENGTH SHALL HAVE SPLICES NOT CLOSER TOGETHER THAN TWENTY FEET. SPLICES SHALL BE WELDED. PILES SHALL BE CAPPED WITH 18" X 1/2" X 1'-6" BEARING PLATES, GROUTED TO OBTAIN FULL BEARING. INTERIOR OF PIPES SHALL BE INSPECTED WITH A LIGHT AND ALL OBSTRUCTIONS AND WATER REMOVED BEFORE CONCRETE IS PLACED. SEE SP-4 FOR FURTHUR PROVISION FOR PILES

LANDSCAPING

TOPSOIL (ITEM L-3) SHALL BE SPREAD TO A COMPACTED DEPTH OF TWO (2) INCHES ON AREAS INDICATED ON THE PLANS.

BONEMEAL (ITEM L-3) SHALL BE APPLIED AT THE RATE OF 20 LBS. PER ONE THOUSAND (1000) SQ. FT. AND THOROUGHLY INCORPORATED INTO THE SUBGRADE BEFORE THE TOPSOIL HAS BEEN PLACED.

AGRICULTURAL GROUND LIMESTONE (ITEM L-9) SHALL BE APPLIED AT THE RATE OF 100 LBS. PER ONE THOUSAND (1000) SQ. FT. AND THOROUGHLY INCORPORATED INTO THE TOPSOIL.

COMMERCIAL FERTILIZER 10-6-4 (ITEM L-9) SHALL BE APPLIED AT THE RATE OF 20 LBS. PER ONE THOUSAND SQ. FT. AND THOROUGHLY INCORPORATED INTO THE TOPSOIL.

SEEDING & PROTECTING (ITEM L-9) AND SEEDING & MULCHING (SPECIAL SEEDING, ITEM L-19) SHALL BE DONE ONLY BETWEEN APRIL 15 & JUNE 15, AND FROM AUGUST 15 & OCTOBER 15, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

SPECIFICATIONS

THIS PROJECT SHALL BE CONSTRUCTED UNDER THE FOLLOWING SPECIFICATIONS:

a) OHIO TURNPIKE PROJECT NO.1, GENERAL SPECIFICATIONS, DATED DECEMBER 9, 1952.

b) SPECIAL PROVISIONS FOR CONTRACT C-34

c) SUPPLEMENT SPECIFICATIONS B-20, DATED DECEMBER 9,1952
SUPPLEMENT SPECIFICATIONS A- 5, DATED AUGUST 7,1953
SUPPLEMENT SPECIFICATIONS T-30, DATED DECEMBER 9,1952

SUPPLEMENT SPECIFICATIONS T-35, DATED DECEMBER 9,1952

SUPPLEMENT SPECIFICATIONS T-31, DATED DECEMBER 9,1952
SUPPLEMENT SPECIFICATIONS B-35, DATED DECEMBER 9,1952
SUPPLEMENT SPECIFICATIONS I- 9, DATED DECEMBER 9,1952
SUPPLEMENT SPECIFICATIONS I-30, REV. JULY 9,1953
SUPPLEMENT SPECIFICATIONS I-29, DATED MAY 28, 1953

LEGEND

SURVEY BASE LINE	630 P.I.
EXISTING PROPERTY LINE	P.L.
EXISTING FENCE LINE	x x
EXISTING PROPERTY LINE (FENCED)	Fence is P.L. x
EXISTING R/W LINE	
PROPOSED R/W LINE	
EXISTING FARM TILE DRAINAGE	
PROPOSED FARM DRAINAGE COLLECTOR	6"
PROPOSED DROP INLET	
PROPOSED TILE LINE BREATHER	
PROPOSED DITCH AND ELEVATION	Ditch El. 592.2
PROPOSED GUARD RAIL (FOR TYPE SEE PLANS)	
PROPOSED MONUMENT	
Proposed Tile Line Junction Box	

STRUCTURAL

DESIGN SPECIFICATIONS & LOADINGS

STRUCTURES HAVE BEEN DESIGNED IN ACCORDANCE WITH THE LATEST REVISION OF THE OHIO HIGHWAY DEPARTMENT "DESIGN SPECIFICATIONS FOR HIGHWAY STRUCTURES."

STRUCTURAL STEEL

15/16" DIAMETER OPEN HOLES AND 7/8" DIAMETER RIVETS UNLESS NOTED.

NO CAMBER IS REQUIRED FOR STEEL BEAMS UNLESS NOTED ON THE DESIGN DRAWINGS BUT ALL BEAMS SHALL BE CHECKED FOR STRAIGHTNESS AND PLACED IN THE STRUCTURE SO THAT ANY CURVATURE WILL GIVE CAMBER. IN GENERAL THIS MEANS THAT ALL BEAMS WILL BE PLACED WITH THE CONVEX SIDE UP WITH THE EXCEPTION OF SHORT BEAM SECTIONS OVER THE SUPPORTS OF CONTINUOUS STRUCTURES WHICH SHOULD BE PLACED WITH THE CONCAVE SIDE UP.

ALL EXPANSION SHOES SHALL BE SET VERTICAL FOR 50° TEMPERATURE. THE SHOES AND EXPANSION DAMS SHALL BE SET IN CORRECT POSITION FOR TEMPERATURE AT TIME OF ERECTION.

ALL BEAM SPLICES SHALL BE ASSEMBLED IN THE SHOP AND REAMED AS SPECIFIED FOR FIELD CONNECTIONS.

WHEN STEEL EXCEEDING ONE INCH IN THICKNESS IS TO BE WELDED, ELECTRODES OF CLASSIFICATION NUMBER E6015 OR E6016 SHALL BE USED.
ALL WELDING SHALL BE CLASS "A".
FOR SPANS WITHOUT HINGED BEARINGS ON AN INCLINED GRADE OF 1% OR MORE THE SOLE PLATES SHALL BE BEVELED SO THAT THE SUBSTRUCTURE BRIDGE SEATS MAY BE LEVEL.

CONCRETE

ALL CONCRETE SHALL BE CLASS "C".

ATTENTION IS DIRECTED TO THE ANCHOR BOLTS REQUIRED FOR ATTACHING HAND RAILS AND GUARD RAILS TO THE PARAPETS OF THE STRUCTURES.

THE SEQUENCE OF DECK SLAB POURS SHALL BE AS SHOWN ON THE DESIGN DRAWINGS. NOT MORE THAN 36 HOURS SHALL ELAPSE BETWEEN ADJACENT POURS.
THE FINISH ON THE TURNPIKE OVER STRUCTURES SHALL BE MACHINE FINISH

SUBSTRUCTURES

THE ENTIRE FILL SHALL BE PLACED BEFORE EXCAVATING FOR THE ABUTMENTS.

NO.	REVISION	BY	DATE
3	AS-BUILT PLANS		Feb 56
2	Revised Legend for Tile breather & junction box	HSJ	11-23-53
1	Revised Sup. Spec. date	HSJ	10-6-53

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE PROJECT NO. 1

GENERAL NOTES & SYMBOLS

BROWN & BLAUVELT
CONTRACTING ENGINEER
DESIGN SECTION D-12

DESIGNED: DRAWN: C.Z.G. CHECKED: L.A. IN CHARGE: DATE: March 6, 1953 SCALE: None

CONTRACT NO. C-34 SHEET 2 OF 38

Not to Scale

MAINTENANCE OF TRAFFIC

The Turnpike construction under this contract crosses one State Highway, State Route No. 269; one County Road, Southwest Road, Co. Rd. 312, on the Sandusky-Erie County Line, and one Township Road, Deyo Road. The following provisions shall apply with respect to maintenance of traffic on these various routes:

Traffic on State Route No. 269 shall be maintained during the entire construction period. During the period of bridge construction, traffic shall be maintained on the detour road as provided on the Contract Plans.

Traffic on Southwest Road and Deyo Road shall be closed to traffic, for a period not to exceed eight months, until completion of the bridges and approaches.

— — — — — — Denotes Traffic Detour Routing

NOTES:

For details of the Temporary Detours, see Contract Drawings, Sheets 10 and 36

For details of the Permanent Barricades, see Standard Drawing No. 14

Barricades, Danger and Warning Signs shall be in accordance with Item G-7.07 of the General Specifications, and as directed by the Engineer.

(43) — Denotes Structure Number

NO.	REVISION	BY	DATE
	AS-BUILT PLANS		Feb 56
1	Added scale note; added county names	HSJ	11-23-53

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE PROJECT NO. 1

MAINTENANCE OF TRAFFIC

BROWN & BLAUVELT
CONTRACTING ENGINEER
DESIGN SECTION D-12

DESIGNED: DRAWN: L. A. CHECKED: L. A. IN CHARGE: DATE: March 6, 1953 SCALE: None

CONTRACT NO. C-34 SHEET 3 OF 38

498-1353

REFERENCE NUMBER	SPEC. ITEM NUMBER	DESCRIPTION	UNIT	SHEET NUMBERS 5 +16	6	7	9	11	12	14	15	8	10	13	TOTALS	PROPOSAL QUANTITIES
		ROADWAY														
1	E-1	Roadway Excavation	C.Y.	17,078	8,700	24,492	92,292	80,605	14,765	15,308	1381	555	8309	813	264,298	264,300
2	E-4	Borrow	C.Y.							126,942	29,333	31,887	596	22780	211,538	211,600
3	E-11	Water	M.G.	81.5	126.5	453.1	201.8	31.8	361.6	1036.7	221.2	349.5	289.0	169.6	3322.3	3,330
4	E-12	Pipe Removed (under 16")	L.F.						10				80		90	90
5	1-15	Guard Rail, Type "A"	L.F.			220	220		220	1350		1865			3875	3,870
6	1-15	Guard Rail, Type "B"	L.F.	200		200	200			3280	210				4090	4100
7	1-15	Guard Rail, Type "C-2" or C-1	L.F.										1750		1750	1,750
8	1-15	Guard Rail, Type "D-2"	L.F.											1410	1410	1,410
9	1-23	Right-of-Way Fence, Type 2	L.F.	4480	5200	5860	5220	5660	5735	5820	1440		1585		41,000	41,000
10	1-26	Permanent Monuments	Ea.	1	1	2	2	2	2	2					12	12
11	1-28	Temporary Cattle Fence	L.F.												250	250
12	L-3	Placing Stock Piled Topsoil	S.Y.	12,480	15,023	15,412	14,836	15,647	15,600	14,215	4,160	2880	5788	1961	118,002	118,000
13	L-3	Bonemeal & Raw Bone	Ton	1.12	1.35	1.39	1.34	1.41	1.40	1.30	0.37	0.25	0.52	0.18	10.63	11
14	L-6	Roadside Cleanup	L.S.												Lump	Lump
15	L-9	Seeding and Protecting Type "A"	S.Y.	12,480	15,023	15,412	14,836	15,647	15,600	14,215	4,160	2880	5788	1961	118,002	118,000
16	L-9	Commercial Fertilizer 10-6-4	Ton	1.12	1.35	1.39	1.34	1.41	1.40	1.30	0.37	0.25	0.52	0.18	10.63	11
17	L-9	Agricultural Ground Limestone	Ton	5.60	6.75	6.95	6.70	7.05	7.00	6.50	1.85	1.25	2.60	0.90	53.15	53
18	L-19	Seeding and Mulching (Special Seeding)	S.Y.	26,609	28,533	34,925	36,042	36,444	35,066	39,089	4,929	21,138	29,416	10,156	293,347	293,400
		DRAINAGE-Including Structure (Box Culvert)	41-9 Sta. 12+38+20													
51	E-2	Excavation for Structures	C.Y.	690	24	219	374	50	272	20	2		87		1738	1740
52	E-3	Excavation for Channels	C.Y.	2660		850									3510	3,500
53	1-2	15" S.S. Reinf. Conc. Culvert Pipe	L.F.		72	86	164		68		84				474	470
54	1-2	18" Paved Invert Bitum. Coated C.M.P. #12 Ga.	L.F.	132	72	168	152	196	280	274					1274	1280
56	1-5	Pipe Special-30" 18" Pvd. Inv. Bit. Ctd. C.M.P. #12 Ga.	Ea.							2					2	2
57	1-8	Inlets, Type A-1	Ea.			2	2		3	3	1				11	11
58	1-9	Stone Underdrain No. 1	L.F.									140	340	140	620	620
59	1-14	2' Special Paved Side Ditch, 1' Deep, 4' Conc.	L.F.				50								50	50
60	1-14	2' Special Paved Side Ditch, 2' Deep, 4' Conc.	L.F.			10									10	10
61	1-14	3' Special Paved Side Ditch, 1' Deep, 4' Conc.	L.F.	10											10	10
62	1-14	4' Special Paved Side Ditch, 2' Deep, 4' Conc.	L.F.		10										10	10
64	1-14	5' Special Paved Side Ditch, 2' Deep, 4' Conc.	L.F.						10	10					20	20
65	1-30	6" Extra Quality Drain Tile	L.F.	150	1280				740	630					2800	2800
66	1-30	8" Extra Quality Drain Tile	L.F.	870					1040	880	290				3080	3080
67	1-30	12" Extra Quality Drain Tile	L.F.	190											190	190
68	1-30	6" Pipe Outlet for Farm Drainage	L.F.	20	20		20	20		20					100	100
69	1-30	8" Pipe Outlet for Farm Drainage	L.F.						20	20					40	40
70	1-30	12" Pipe Outlet for Farm Drainage	L.F.	20											20	20
71	S-1	Class "C" Conc. for Structures	C.Y.	28.44	4.02	44.88	63.25	6.66	21.51	3.07	0.90		15.16		443.89	450
72	S-4	Reinforcing Steel	Lb.	31,360	214	2747	3534	336	906	160	51		724		40,032	40,000
73	S-27	24" S.S. Reinf. Conc. Culvert Pipe	L.F.										106		106	110
74	I-2	36" S.S. Reinf. Conc. Culvert Pipe	L.F.						104						104	100
75	I-2	42" S.S. Reinf. Conc. Culvert Pipe	L.F.				128								128	130
76	I-2	30" Paved Invert Bitum. Coated C.M.P. #14 Ga.	L.F.						108						108	110
77	S-27	36" Paved Invert Bitum. Coated C.M.P. #12 Ga.	L.F.			154									154	150
78	S-27	72" Paved Invert Bitum. Coated C.M.P. #8 Ga.	L.F.			154									154	160
79	S-27	78" Paved Invert Bitum. Coated C.M.P. #8 Ga.	L.F.				156								156	160
80	S-27	18" S.S. Reinf. Conc. Culvert Pipe	L.F.				64						48		112	120
81	S-27	30" S.S. Reinf. Conc. Culvert Pipe	L.F.				36						44		80	80
82	I-30	10" Extra Quality Drain tile	L.F.	890											890	890

REFERENCE NUMBER	SPEC. ITEM NUMBER	DESCRIPTION	UNIT	SHEET NUMBERS 5	6	7	9	11	12	14	15	8	10	13	TOTALS	PROPOSAL QUANTITIES
		PAVEMENT														
101	1-22	Selected Sub-Base	C.Y.	5,187	6240	6,762	6,710	6,734	6,720	7,070	2,222				47,651	47,700
102	P-20	8" Waterbd. Mac. Base Crs. 2-4" Courses	C.Y.									773			773	770
103	B-20	5" Waterbd. Mac. Base Crs. 1-5" Course	C.Y.										53	209	262	260
104	B-35	Asphaltic Conc. Leveling Course	C.Y.									85	128		213	210
105	T-30	Bitum. Prime Coat	Gal.									1088	2671	523	4282	4290
106	I-27	Classified Embankment Material	C.Y.										3292		3292	3300
107	B-21	Compacted Aggregate Base Course	C.Y.										1306		1306	1310
108	T-33	Bitum. Macadam Surface Course	S.Y.	8644	10,400	11,284	10,200	11,224	11,200	10,760	2,868				76,580	76,600
109	T-35	Asphaltic Conc. Surface Course-Type A	C.Y.									112	391	62	565	570
110	T-71	Reinf. Portland Cement Conc. Pavement 10"	S.Y.	11,525	13,867	15,045	14,900	14,965	14,900	14,380	3,824				103,406	103,400

		UNIT	SHEET NUMBERS 17 STR. N043	21 STR. N045	26 STR. N046	30 STR. N047	TOTALS
111	E-2	Excavation for Structures	C.Y.	229	255	229	490	1203	1200
112	E-3	Excavation for Channels	C.Y.				1835	1835	1800
113	1-10	Rip-Rap, Type "A"	S.Y.				1720	1720	1720
114	1-15	Guard Rail, Type "A"	L.F.				412	412	410
115	S-1	Class "C" Conc for Structures	C.Y.	424	446	423	529	1822	1800
116	S-3	Waterproofing, Type "C"	S.Y.		68			68	70
117	S-4	Reinforcing Steel	Lb.	67,479	82,380	67,071	65,956	282,886	282,900
118	S-7	Structural Steel	Lb.	141,975	197,861	139,515	237,103	716,454	716,000
119	S-9	Structural Expansion and/or Contraction Jts.	Lb.	12,856	14,016	13,076	12,288	52,836	52,800
120	S-14	Standard Handrail, Type "A"	L.F.				412	412	400
121	S-18	Furnishing Shells for Piles, 12" Dia. C.I.P.	L.F.	390	580	310	740	2020	2000
122	S-18	Driving and Filling Piles	L.F.	390	580	310	740	2020	2000
123	S-18	Splicing Piles	Ea.	6	20	15	45	86	86
124	SP-4	Anchoring Piles in Rock	Ea.	6	20	15	45	86	86
125	S-29	Scuppers, Type "B"	Ea.	4	4	4		12	12
126	S-29	Drainage Pipe for Structures, 6" Wrought Iron	L.F.	100	100	100	10	310	310
127	S-29	Drainage Pipe for Structures, 8"	L.F.	280	280	280	240	1080	1100
128	T-35	Asphaltic Conc. Surface Course, Type "C"	C.Y.		23			23	23
129	S-14	Standard Handrail. Type "B"	L.F.	434	434	428		1296	1300
130	S-16	First test Piles	Ea.			1	1	2	2
		MISCELLANEOUS							
131	I-29	Construction Contract Information Signs	Ea.					2	2

GRADING ANALYSIS

SHEET NO.	TOTAL EXCAVATION AVAILABLE=C	TOTAL EMBANKMENT REQUIRED=F	BORROW=1.10 (F – 0.85 C)	REMARKS
5	19,528	10,182		7,549 C.Y. Excess Haul 7,549 C.Y. to Sh. # 6
6	7,892	15,809		Haul 7,549 C.Y. from Sh. 5 Haul 3168 C.Y. from Sh. # 9
7	24,800	56,677		Haul 41,879 C.Y. from Sh. # 9
8	395	43,557	31,887	Haul 16,768 C.Y. from Sh # 9
9	94,497	25,230		61,815 C.Y. Excess Haul 3148 C.Y. to Sh. # 6 Haul 41,879 C.Y. to Sh. # 7 Haul 16,768 C.Y. to Sh. # 8
10	6,784	36,172	596	Haul 35134 C.Y. from Sh # 11
11	79,771	4,847		74,069 C.Y. Excess Haul 38935 C.Y. to Sh. 12. Haul 35134 C.Y. to Sh. 10
12	14,248	45,206		Haul 38,935 C.Y. from Sh. 11.
13	706	21,309	22,780	
14	16,697	129,594	126,942	
15	1,150	27,644	29,333	

NO.	REVISION	BY	DATE
4	AS-BUILT PLANS		Feb 56
3	Revised Maint. Area; misc. drainage revisions		11-23-53
1	Revised Quantities of Maintenance Area; Rev. Borrow and Grading Analysis		10-6-53

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE PROJECT NO. 1

SUMMARY OF ESTIMATES

BROWN & BLAUVELT
CONTRACTING ENGINEER
DESIGN SECTION D-12

DESIGNED: DRAWN: E.L. | CHECKED: IN CHARGE: | DATE: March 6, 1953 | SCALE: None

CONTRACT NO. C-34 SHEET 4 OF 38

49B-2004

PLAN
1" = 100'

East & West of STR. #43

PROFILE
Scale: Hor. 1" = 100'
Vert. 1" = 10'

QUANTITIES

NO.	ITEM	LOCATION & REMARKS	UNIT	ESTIMATED QUANTITY	FINAL QUANTITY
	ROADWAY				
E-1	R'way Excavation		C.Y.	24,492	26,713
E-11	Water		M.Gal.	453.1	186.66
1-15	Guard Rail, Type A		L.F.	220	250
1-15	Guard Rail, Type B		L.F.	200	192
1-23	R.O.W. Fence, Type 2		L.F.	5,860	5,835
1-26	Perm't Monuments		Ea.	2	2
L-3	Placing Stk. piled Rpsl		S.Y.	15,412	13,910
L-3	Bonemeal		Ton	1.39	0
L-9	Seeding & Prot., Type A		S.Y.	15,412	13,910
L-9	Commercial Fertilizer		Ton	1.39	1.26
L-9	Agric'l Ground Limestone		Ton	6.95	0
L-19	Seeding & Mulching (Sp. Seed)		S.Y.	34,925	31,083
	DRAINAGE				
E-2	Excav. for Structures		C.Y.	219	761.63
E-3	Excav. for Channels		C.Y.	850	212.45
1-8	Type A-1 Inlet		Ea.	2	2
1-2	15"-55. R.C.C.P.		L.F.	86	86
1-2	18" Pr. Lined Bit. Cd. CMP 12 Ga.		L.F.	168	165
1-14	2' Sp. Pd. Side Ditch, 2' deep, 4" Conc.		L.F.	10	0
S-1	Class "C" Conc. for Struct.		C.Y.	44.88	61.40
S-4	Reinforcing Steel		Lb.	2747	2677
S-27	36" Pr'd. Inv. Bit. Coat. C.M.P. 12 Ga.		L.F.	154	155.5
S-27	72" Pcr. Inv. Bit. Coat. C.M.P. 8 Ga.		L.F.	154	155
	PAVEMENT				
1-22	Selected Sub Base		C.Y.	6762	7,665
T-33	Bit. Mac. Surf. Crse		S.Y.	11,284	11,281
T-71	Reinf. Portl. Cem. Conc. Pav.	10"	S.Y.	15,045	15,045

NO.	REVISION	BY	DATE
4	AS-BUILT PLANS		F=150
1	Rev. median ditch grades; rev. guard rail at culvert; misc. drainage revisions	HA	11-23-53

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE PROJECT NO. 1

PLAN AND PROFILE
SANDUSKY AND ERIE COUNTIES
STA. 1267+00 TO STA. 14+00

BROWN & BLAUVELT
CONTRACTING ENGINEER
DESIGN SECTION D-12

DESIGNED:	CHECKED: L.A. & HSN	DATE: March 6, 1953
DRAWN: C.Z. G. & L.A.	IN CHARGE:	SCALE: As Shown

CONTRACT NO. C-34 SHEET 7 OF 38

49B-1035

PLAN
1" = 100'

℄ PROFILE DINING ROAD

Stone Underdrain, Item I-9 to be placed as directed by the Engineer.

Scarify Existing Pavement Sta. 4+00 to Sta. 4+90

EXISTING UTILITIES				SOUTHWEST ROAD		
Feature	Number	Station	Side	Owner	Utility	Appurtenances
Pole		14+40	Lt	Private	2 Tel Lines	
Pole		15+55	Lt	"	2 Tel Lines	
Pole		17+75	Lt	"	2 Tel Lines	
Pole						
Pole						
Pole		13+75	Lt	"	2 Tel Lines	
Pole		15+75	Lt	"	2 Tel Lines	
EXISTING UTILITIES				DINING ROAD		
Pole		5+95	Rt	Private	2 Tel Lines	
Pole		3+65	Rt	"	2 Tel Lines	
Pole		2+60	Rt	"	2 Tel Lines	
Pole		1+50	Rt	"	2 Tel Lines	
Pole		0+30	Rt	"	2 Tel Lines	

Horizontal transitions to meet existing pavement to be determined by the Engineer. For x-section & details of cross road pavement, see Sheet No. 3G.

PROFILE
Scale: Hor. 1" = 100'
Vert. 1" = 10'

QUANTITIES

NO.	ITEM	LOCATION & REMARKS	UNIT	ESTIMATED QUANTITY	FINAL QUANTITY
	ROADWAY				
E-1	Roadway Excavation		C.Y.	555	839
E-4	Borrow		C.Y.	31,887	51,105
E-11	Water		M.Gal	349.5	143.98
L-15	Guard Rail Type A		L.F.	1,265	1,899.5
L-3	Placing Stockpiled Topsoil		S.Y.	2,880	0
L-3	Bonemeal		Ton	0.25	0
L-9	Seeding & Protecting Type A		S.Y.	2,880	0
L-9	Commercial Fertilizer		Ton	0.25	0
L-9	Agricultural Grr Limest.		Ton	1.25	0
L-19	Seeding & Mulch (Sp. Seed)		S.Y.	21,138	19,110
	DRAINAGE				
I-9	Stone Underdrain No. 1.		L.F.	140	106
	PAVEMENT				
B-20	Water-Bound Mac. Base Crse	2-4" Courses	C.Y.	773	539.2
B-35	Asphaltic Conc. Level Crse		C.Y.	85	117.97
T-30	Prime Coat		Gal.	1,088	1,378.65
T-35	Asphaltic Conc. Surf Crse. Type A		C.Y.	112	87.51
B-20	Water-Bound Mac. Base Crse.	.5" Course	C.Y.		101.5

NO.	REVISION	BY	DATE
4	AS-BUILT PLANS		Feb 54
3	Misc. minor revisions; rev. Borrow quantity	RJJ	11-23-53
1	Revised Borrow Quantity	HSN	10-4-53

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE PROJECT NO. 1

PLAN AND PROFILE

SANDUSKY COUNTY & ERIE COUNTY

CO. RD. 312 - SOUTHWEST RD.

BROWN & BLAUVELT
CONTRACTING ENGINEER
DESIGN SECTION D-12

DESIGNED:
DRAWN: L.A.
CHECKED: L.A. & H.S.N.
IN CHARGE: [illegible]
DATE: March 6, 1953
SCALE: As Shown

CONTRACT NO. C-34 SHEET 8 OF 38

498 1052

3M-12
J-37

PLAN

ELEVATION

SECTION A-A

References:
For General Notes see Sheet No. 2
For Drainage Details see Std. Dwg. No. 15
For Architectural Details see Sheet No. 35
Design frequency Loading. CF=30
for Boring Logs See Sh. 38

QUANTITIES

REF. NO.	ITEM	ITEM	LOCATION & REMARKS	UNIT	ESTIMATED QUANTITY	FINAL QUANTITY
	E-2	Exc. for Str. Uncl.		C.Y.	229	314.78
	S-1	Class "C" Conc. Super-Str.		C.Y.	181	194.08
	S-1	Class "C" Conc. Abut.		C.Y.	132	132.47
	S-1	Class "C" Conc. Abut. Inlets		C.Y.	4	5.44
	S-1	Class "C" Conc. Pier Caps & Cols.		C.Y.	87	92.35
	S-1	Class "C" Conc. Pier Foot		C.Y.	20	19.55
	S-4	Reinf. Steel		Lb.	67,479	67,334.63
	S-7	Struct. Steel		Lb.	141,975	156,175.0
	S-9	Str. Exp. and/or Contr. Joints		Lb.	12,856	9,014.0
	S-14	Railing Typ. B		L.F.	434	433.10
	S-18	Furnish Steel Pipe Piles, 12" Dia.		L.F.	390	434
	S-18	Driving and Filling Piles		L.F.	390	327.9
	S-18	Splicing Piles		Ea.	6	0
	S-29	Scuppers, Type B		Ea.	4	4
	S-29	W.I. Pipe 6" I.D.		L.F.	100	138.33
	S-29	8" φ Pipe		L.F.	280	426.0
	SP-4	Anch. Piles in rock		Ea.	6	14

NO.	REVISION	BY	DATE
4			
3			Feb. 56

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE PROJECT NO. 1

STRUCTURE NO. 43
CO. ROAD NO. 312 - SOUTHWEST ROAD
PLAN, ELEVATION & SECTION

BROWN & BLAUVELT
CONTRACTING ENGINEER
DESIGN SECTION D-12

DESIGNED: G.R. CHECKED: L.G. DATE: March 6, 1953
DRAWN: C.W.D. IN CHARGE: [illegible] SCALE: 1" = 10'

CONTRACT NO. C- 34 SHEET 17 OF 38

49 B 1330

15

4 M-12

PLAN
Scale: 1" = 10'-0"

SECTION A-A
(Section B-B Similar Except as Noted)
Scale: ½" = 1'-0"

CAMBER DIAGRAM
No Scale

TOP PLAN
(Bottom Plan Similar)

ELEVATION

TYPICAL SPLICE & COVER PLATE
Scale: ¾" = 1'-0"

References:
For General Notes see Sh. 2
For Bearing Details see Sh. 33, 34
For detail and connections of end diaphragms see Sh. 33

NO.	REVISION	BY	DATE
6	AS-BUILT PLANS		12/5/70
5	REVISED CAMBER	LLF	9/6/65

OHIO TURNPIKE COMMISSION
OHIO TURNPIKE PROJECT NO. 1

STRUCTURE NO. 43
CO. ROAD NO. 312 - SOUTHWEST ROAD
SUPERSTRUCTURE

BROWN & BLAUVELT
CONTRACTING ENGINEER
DESIGN SECTION D-12

DESIGNED: G R | CHECKED: L G | DATE: March 6, 1953
DRAWN: A W | IN CHARGE: [illegible] | SCALE: As Noted

CONTRACT NO. C- 34 SHEET 18 OF 38

5 M-12
47-83

ABUTMENT PLAN

Scale: $\frac{3}{8}$" = 1'-0"

Note:
Bracketed elevations are for tops of roadway slab, other elevations shown are for tops of stringer pads.

KEY PLAN

No scale

SECTION C-C

Scale: $\frac{1}{2}$" = 1'-0"

ELEVATION A-A

Scale: $\frac{3}{8}$" = 1'-0"

SECTION B-B

References:

For General Notes see Sh. 2
For Details of Bearings & Dams see Sh. 33, 34

Max Load Front Piles : 50 Tons
Max Load Rear Piles : 30 Tons
Estimated Avg. length of piles { Front: 20.54' Ft. / Rear: 27.27' Ft.

All Piles to be 12" Pipe, Concrete filled, Piles to Rock.

NO.	REVISION	BY	DATE
4	AS-BUILT PLANS		Feb 50
1	REVISED ELEVATIONS	LLF	10/6/53

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE PROJECT NO. 1

STRUCTURE NO. 43
CO. ROAD NO. 312 – SOUTHWEST ROAD
ABUTMENTS

BROWN & BLAUVELT
CONTRACTING ENGINEER
DESIGN SECTION D-12

DESIGNED: S T L | CHECKED: L G | DATE: March 6, 1953
DRAWN: J G C | IN CHARGE: [illegible] | SCALE: As shown

CONTRACT NO. C- 34 SHEET 19 OF 38

10

49 B-1332

BEAM REINFORCEMENT

SECTION A-A
Scale: $\frac{1}{2}$" = 1'-0"

KEY PLAN
STRINGER PAD ELEVATIONS
No Scale

PLAN – PIERS 1, 2 & 3

SECTION B-B
Scale: $\frac{1}{2}$" = 1'-0"

ELEVATION

FOOTING PLAN

ELEVATION OF PIER FOOTERS.

PIER 1 NORTH

PIER 2 CENTER

PIER 3 SOUTH

Notes:
For General Notes see Sheet No. 2
For Framing Plan see Sheet No. 18
For Location of Piers see Sheet No. 17
For Bearing Details see Sheet No. 3
All exposed concrete corners shall have 1" chamfer.
Elevations shown for bottom of pier footings are based on assumed rock elevations and are for estimating purposes only.
Pier footing shall be founded 1 foot Min. below top of sound rock as determined in the field.

NO.	REVISION	BY	DATE
2	AS-BUILT PLANS		Feb 50
1	REVISED PIER ELEVATIONS	LLF	10/6/53

OHIO TURNPIKE COMMISSION
OHIO TURNPIKE PROJECT NO. 1

STRUCTURE NO. 43
CO. ROAD NO. 312 - SOUTHWEST ROAD
PIERS

BROWN & BLAUVELT
CONTRACTING ENGINEER
DESIGN SECTION D-12

DESIGNED: J.G. | CHECKED: L.G. | DATE: March 6, 1953
DRAWN: C.W.D. | IN CHARGE: [illegible] | SCALE: 1/4" = 1'-0" & as shown

CONTRACT NO. C-34 SHEET 20 OF 38

48-1333

FIXED BEARING TYPE "A"

EXPANSION BEARINGS TYPE "B"

STOOL DETAIL

EXPANSION BEARING TYPE "C"

EXPANSION BEARING TYPE "D"

DOWEL DETAIL

SCALE: Full Size

SECTION A-A

SECTION B-B

SECTION C-C

SECTION F-F

SECTION G-G

SECTION G_1-G_1 SIMILAR EXCEPT AS NOTED

FIXED BEARING TYPE "E"

DETAIL P~PLAN~DEFLECTION DAM

DETAIL P' SIMILAR EXCEPT AS NOTED

SCALE: 1" = 1'-0"

SECTION E-E

Scale 1" = 1'-0"

PLAN

SECTION M-M

SCALE: 1½" = 1'-0"

DETAIL OF TRAFFIC PLATE AT EXPANSION DAM

Scale 1½" = 1'-0"

PLAN

Scale 1" = 1'-0"

DETAIL "5" Plan Expansion Dam (as shown)

DETAIL "6" Plan Expansion Dam (Substitute Type "A" Traffic Plates for Plates shown) (See Section H-H)

Traffic Plate to be raised Pattern Plate or to be provided with Welded Bead Pattern as shown.

SECTION D-D

Scale 1" = 1'-0"

SECTION K-K

Scale 1" = 1'-0"

SECTION H-H

Scale 1" = 1'-0"

SECTION J-J

SCALE: 1½" = 1'-0"

SECTION N-N

Scale 1" = 1'-0"

Table for Traffic Pl Clearances			
Structure No.	Det. "R"	Det. "S"	Det. "S'"
43, 45, 46	1"		
47			1"

NO.	REVISION	BY	DATE
4			Feb 50

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE PROJECT NO. 1

STRUCTURAL DETAILS

BROWN & BLAUVELT
CONTRACTING ENGINEER
DESIGN SECTION D-12

DESIGNED: L F | CHECKED: L G | DATE: March 6, 1953
DRAWN: L F | IN CHARGE: [illegible] | SCALE: 1"=1'-0" 1/4" = 1'-0"

CONTRACT NO. C-34 SHEET 33 OF 38

20 M-12

EXPANSION BEARING TYPE "F"
Scale: 1 1/2" = 1'-0"

FIXED BEARING TYPE "G"
Scale: 1 1/2" = 1'-0"

SECTION A-A
Section A_1-A_1 similar, except as noted

DETAIL "C"
DEFLECTION JOINT DETAIL
Scale: 3/8" = 1'-0"

SECTION E-E

SECTION D-D
Scale: 1/2" = 1'-0"

PARAPET WITH SAFETY CURB
STRUCTURE NO. 45
Scale 3/4" = 1'-0"

1 1/2 Copper Tube 4'-0" O.C. Set Top of Tube 1/4" below Top of Slab, place 4"x4" No 12 to No 16 Copper Mesh over top of tube & avoid displacement of Screen when Placing Wearing Surface. Adjust Spacing to clear Bridge Seats or Structural Members.

SECTION F-F
Scale: 3/8" = 1'-0"

SECTION G-G
Scale: 3/8" = 1'-0"

DETAIL-CONSTRUCTION JOINT FOR WINGWALLS
Scale: 3/4" = 1'-0"

DETAIL-CULVERT EXPANSION JOINT
Scale: 3/4" = 1'-0"

NO.	REVISION	BY	DATE
1	AS-BUILT PLANS		Feb 50

OHIO TURNPIKE COMMISSION
OHIO TURNPIKE PROJECT NO. 1

STRUCTURAL DETAILS

BROWN & BLAUVELT
CONTRACTING ENGINEER
DESIGN SECTION D-12

DESIGNED: LF | CHECKED: LG | DATE: March 6, 1953
DRAWN: NE | IN CHARGE: [illegible] | SCALE: As Shown

CONTRACT NO. C-34 | SHEET 34 OF 38

49 B-1348

33

21M-12

ELEVATION
Scale: 1/4" = 1'-0"

SECTION "A-A"
Scale: 1/4" = 1'-0"

ELEVATION "B-B"
Scale: 1/4" = 1'-0"

PARAPET WITH SAFETY CURB
STRUCTURES NOS. 43 & 46
(For Structure No. 45 see Sh. No. 34)
Scale: 3/4" = 1'-0"

PARAPET WITH GUARD RAIL
Scale: 3/4" = 1'-0"

NOTES:
Chamfer all corners 1"
For details of Railing see Std. Dwg. 5
For details of Roadway Drainage, see Std. Dwg. 15

NO.	REVISION	BY	DATE
0	AS-BUILT PLANS		Feb 59

OHIO TURNPIKE COMMISSION
OHIO TURNPIKE PROJECT NO. 1

ARCHITECTURAL DETAILS

BROWN & BLAUVELT
CONTRACTING ENGINEER
DESIGN SECTION D-12

DESIGNED: DRAWN: J.H.J. | CHECKED: S.R.T. IN CHARGE: | DATE: March 6, 1953 SCALE: As Noted

CONTRACT NO. C-34 SHEET 35 OF 38

49B-1604