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	HGJ	11-23-53

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE PROJECT NO. 1

MAINTENANCE OF TRAFFIC

BROWN & BLAUVELT
CONTRACTING ENGINEER
DESIGN SECTION D-12

DESIGNED: | CHECKED: L. A. | DATE: March 6, 1953
DRAWN: L. A. | IN CHARGE: | 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

EXISTING UTILITIES ~ CASTALIA ROAD

Feature	Number	Station	Side	Owner	Utility
Pole		23+25	Rt.	Ohio Edison Toledo Edison	11 Power Lines
Pole		23+55	Rt.	"	2 Power Lines
Pole		23+80	Rt.	"	3 Power Lines
Pole		26+20	Lt.	Northern Ohio Tel. Ohio Bell	8 Tel. Lines
Pole		26+60	Rt.	Ohio Edison Toledo Edison	3 Prim. 2 Sec.
Pole		28+65	Rt.	"	3 Prim. 2 Sec.
Pole		28+22	Lt.	Northern Ohio Tel. Ohio Bell	8 Tel. Lines
Pole		24+30	Lt.	"	8 Tel. Lines
Pole		24+60	Rt.	Ohio Edison Toledo Edison	3 Prim. 3 Sec.
Pole		17+88	Rt.	Northern Ohio Tel. Ohio Bell	2 Tel. Lines
Pole		18+00	Rt.	Ohio Edison Toledo Edison	3 Prim. 3 Sec.
Pole		19+87	Rt.	Northern Ohio Tel. Ohio Bell	2 Tel. Lines
Pole		19+85	Rt.	Ohio Edison Toledo Edison	3 Prim. 3 Sec.
Pole		20+95	Rt.	Northern Ohio Tel. Ohio Bell	2 Tel. Lines
Pole		20+65	Lt.	"	8 Tel. Lines
Pole		21+90	Rt.	Ohio Edison Toledo Edison	3 Prim. 3 Sec.
Pole		22+55	Rt.	"	3 Prim. 3 Sec.
Pole	9230	22+26	Lt.	Northern Ohio Tel. Ohio Bell	8 Tel. Lines
Pole		13+35	Lt.	"	8 Tel. Lines
Pole				Ohio Edison Toledo Edison	3 Prim.
Pole		13+35	Rt.	Northern Ohio Tel. Ohio Bell	2 Tel. Lines
Pole	9226	15+18	Lt.	"	8 Tel. Lines
Pole		14+55	Rt.	"	2 Tel. Lines
Pole		14+65	Rt.	Ohio Edison Toledo Edison	3 Prim. 3 Sec.
Pole		16+00	Lt.	Northern Ohio Tel. Ohio Bell	8 Tel. Lines
Pole		16+40	Rt.	Ohio Edison Toledo Edison	3 Prim. 3 Sec.
Pole		16+80	Rt.	Northern Ohio Tel. Ohio Bell	2 Tel. Lines
Pole		12+90	Rt.	Ohio Edison Toledo Edison	6 Prim. 6 Sec.
Pole		12+95	Lt.	Northern Ohio Tel. Ohio Bell	8 Tel. Lines
Pole		12+80	Rt.	Ohio Edison Toledo Edison	3 Power Lines
Pole		12+75	Rt.	Northern Ohio Tel. Ohio Bell	6 Tel. Lines
Pole		11+80	Lt.	Ohio Edison Toledo Edison	3 Prim. 3 Sec.

QUANTITIES

NO.	ITEM	LOCATION & REMARKS	UNIT	ESTIMATED QUANTITY	FINAL QUANTITY
	ROADWAY				
E-1	Roadway Exc.		C.Y.	8,309	2,708
E-4	Borrow		C.Y.	596	955
E-11	Water		M.Gal.	289.0	119.06
I-15	Guard Rail Type C-2	or C-1	L.F.	1,750	1971.5
L-3	Placing Stock-piled Topsoil		S.Y.	5,788	0
L-3	Bonemeal		Ton	0.52	0
L-9	Seed & Prot. Type A		S.Y.	5,788	0
L-9	Comm. Fertilizer		Ton	0.52	0
L-9	Agric. Ground Limestone		Ton	2.60	0
L-19	Seed & Mulching (Spec. Seed)		S.Y.	20,416	14,126.8
E-12	Pipe Removal (Under 16")	Rem. 46' 15" Conc. pipe Sta. 25+50 Rem. 40' 16" Gal. Pipe Sta. 20+28 Dining Rd.	L.F.	80	80
L-19	Seed & Mul. (Spec. Seed) Maint Area		S.Y.		26,368.0
I-23	R.O.W. Fence Type 2		L.F.	1,585	1578
E-12	Pipe Removal (Castalia Rd.)	(Under 16")	L.F.		28
	DRAINAGE				
E-2	Excav. for Struc.		C.Y.	87	464.74
S-1	Cl. "C" Conc. f. Str.		C.Y.	15.16	17.38
S-4	Reinf. Steel		Lb.	724	992
S-27	24" S.S. R.C.C.P.		L.F.	106	389
I-9	Stone Underdr's No. 1		L.F.	340	206
S-27	18" S.S. R.C.C.P.		L.F.	48	49
S-27	30" S.S. R.C.C.P.		L.F.	44	45
	PAVEMENT				
B-20	Wet-Bnd. Mac. Base Crse.	1-5" Course	C.Y.	53	71.2
B-35	Asph. Conc. Lev'g Crse.		C.Y.	128	128.2
T-30	Prime Coat		Gal.	2,671	1794.8
I-27	Class. Emb. Matl.		C.Y.	3,292	683.76
T-35	Asph. Conc. Surf. Crse, Type A		C.Y.	391	193.23
B-21	Cmpct. Agg. Base Crse.		C.Y.	1306	0

NO.	REVISION	BY	DATE
4	AS-BUILT PLANS		Feb 56
3	Revised maintenance area per typ. Dwg 12, rev. 2 Misc. drainage revisions	HSN	11-23-53
2	Revised Maintenance Area	HSN	10-6-53

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE PROJECT NO. 1

PLAN AND PROFILE
ERIE COUNTY
ST. RT. 269 - CASTALIA BELLEVUE RD.

BROWN & BLAUVELT
CONTRACTING ENGINEER
DESIGN SECTION D-12

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

CONTRACT NO. C-34 SHEET 10 OF 38

49B-1053

PLAN

SECTION A-A

Note:
Elev. of Rock Approx. 705.5

ELEVATION

REF. NO.	ITEM NO.	ITEM	LOCATION & REMARKS	UNIT	ESTIMATED QUANTITY	FINAL QUANTITY
		QUANTITIES				
	E-2	Exc. for Str. Struct.		C.Y.	255	345.54
	S-1	Cl "C" Conc. Super. Str.		C.Y.	182	214.39
	S-1	Cl "C" Conc. Abut.		C.Y.	149	143.98
	S-1	Cl "C" Conc. Abut. Inlts		C.Y.	4	5.44
	S-1	Cl "C" Conc. Pier Caps & Cols		C.Y.	74	75.64
	S-1	Cl "C" Conc. Pier Foot		C.Y.	37	37.29
	S-3	Waterproofing, Type C		S.Y.	68	674.2
	S-4	Reinf. Steel		Lb.	82,580	79,369.83
	S-7	Struct. Steel		Lb.	197,861	198,932.0
	S-9	Str. Exp. and Exp. Cont. Joints		Lb.	14,616	10,663.0
	S-14	Railing, Type B		L.F.	434	433.44
	S-18	Furnish Steel Pipe Piles #, 12" D. Nom.		L.F.	580	408
	S-18	Driving & Fitting Piles		L.F.	580	338.1
	S-18	Splicing Piles		Ea.	20	0
	S-29	Scuppers, Type B		Ea.	4	4
	S-29	W.I. Pipe 6" I.D.		L.F.	100	134.89
	S-29	8" ϕ Pipe		L.F.	280	354.
	T-35	Asphaltic Concrete Type C		C.Y.	23	23.2
	S-A4	Incher Piles in Rock		Ea.	20	18

REFERENCES:

For General Notes See Sh. 2
For Drainage Details See Std Dwg No 15
For Archtl. Details See Sh. 35
Design Frequency Loading. CF = 130
For Boring Logs See Sh. 38

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

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE PROJECT NO. 1

STRUCTURE NO. 45
STATE ROUTE NO. 269
PLAN, ELEVATION & SECTION.

BROWN & BLAUVELT
CONTRACTING ENGINEER
DESIGN SECTION D-12

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

CONTRACT NO. C- 34 SHEET 21 OF 38

408 - 1334

8 M-12

PLAN
Scale: 1" = 10'-0"

CAMBER DIAGRAM
No Scale

NOTE:
All Diaphrams to be 18 [42.7#

SECTION A-A
Scale: ½" = 1'-0"

TOP PLAN AS SHOWN
BOTTOM PLAN SIMILAR

ELEVATION
TYPICAL SPLICE & COVER PLATE
Scale: 3/4" = 1'-0"

REFERENCES:
For General Notes See Sh. 2
For Bearing Details See Sh. 33
For Detail and Connections of End Diaphragms See Sh. 33

NO.	REVISION	BY	DATE
1	AS-BUILT PLANS		Feb 56

OHIO TURNPIKE COMMISSION
OHIO TURNPIKE PROJECT NO. 1

STRUCTURE NO. 45
STATE ROUTE NO. 269
SUPERSTRUCTURE

BROWN & BLAUVELT
CONTRACTING ENGINEER
DESIGN SECTION D-12

DESIGNED: E.B.W. CHECKED: C.M.C. DATE: March 6, 1953
DRAWN: R.U.K. & M.G. IN CHARGE: SCALE: As Shown

CONTRACT NO. C-34 SHEET 22 OF 38

49 B

9M-12

NOTE:
Bracketed elevations are for tops of Roadway slab, other elevations shown are for tops of stringer pads.

ABUTMENT PLAN
Scale: 3/8" = 1'-0"

KEY PLAN
No Scale

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

ELEVATION A-A
Scale 3/8" = 1'-0"

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

REFERENCES:
For General Notes See Sh. 2
For Details of Bearings & Dams See Shs. 33 & 34 -
Max. Load Front Pipe Piles = 50T
Max. Load Rear Pipe Piles = 50T
Est. Avg. Length of Front Piles = 17.83'
Est. Avg. Length of Rear Piles = 20.00'
All Piles to be 12" ϕ Pipe, concrete filled, Piles to rock

NO.	REVISION	BY	DATE
4	AS-BUILT PLANS		F6650
3	REINF STEEL & W.W. CORR. RAD	LLF	11/21/62
1	REVISED PAD ELEVATIONS	LLF	10/16/53

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE PROJECT NO. 1

STRUCTURE NO. 45
STATE ROUTE NO. 269
ABUTMENTS

BROWN & BLAUVELT
CONTRACTING ENGINEER
DESIGN SECTION D-12

DESIGNED: G.R.D. CHECKED: C.R.C. DATE: March 6, 1953
DRAWN: R.J.K. IN CHARGE: J.W. Lindsay SCALE: As Shown

CONTRACT NO. C-34 SHEET 23 OF 38

ELEV. OF PIER FOOTERS

NOTES:

For General Notes See Sheet No. 2
For Framing Plan See Sheet No. 22
For Location of Piers See Sheet No. 21
For Bearing Details See Sheet No. 33
All exposed Conc. Corners shall have 1" Chamfer
For Section B-B See Sheet No. 25
For Key Plan See Sheet No. 23
Elevations shown for bottom of pier footings are based on assumed rock elevations and are for estimating purposes only
Pier footings shall be founded 1 ft. min below top of sound rock as determined in the field

NO.	REVISION	BY	DATE
4	AS-BUILT PLANS		Feb 52
1	REINF STEEL LAP	LLF	11/2/56

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE PROJECT NO. 1

STRUCTURE NO. 45
STATE ROUTE NO. 269
PIERS NO. 1 & 3

BROWN & BLAUVELT
CONTRACTING ENGINEER
DESIGN SECTION D-12

DESIGNED: R.B.W. DRAWN: GWH CHECKED: G.M.S.G. IN CHARGE: DATE: March 6, 1953 SCALE: As Shown

CONTRACT NO. C-34 SHEET 24 OF 38

BEAM REINFORCEMENT
Scale: 3/8" = 1'-0"

PLAN
Scale: 3/8" = 1'-0"

ELEVATION
Scale: 3/8" = 1'-0"

Note:
Approx Elev of Rock 705.50

FOOTING PLAN
Scale 3/8" = 1'-0"

KEY PLAN
STRINGER PAD ELEVATIONS
Not to Scale

SECTION A-A
Scale 3/8" = 1'-0"

SECTION B-B
Scale 3/8" = 1'-0"

NOTES:
For General Notes See Sheet No. 2
For Framing Plan See Sheet No. 22
For Location of Piers See Sheet No. 21
For Bearing Details See Sheet No. 33
All exposed Conc. 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 footings shall be founded 1 ft. min. below top of sound rock as determined in the field

SECTION C-C
SECTION D-D SIMILAR EXCEPT AS NOTED
Scale 3/8" = 1'-0"

NO.	REVISION	BY	DATE
3	AS-BUILT PLANS		12/6/50
2	REINF STEEL LAP	LLF	11/29/50
1	REVISED ELEVATIONS	LLF	10/6/50

OHIO TURNPIKE COMMISSION

OHIO TURNPIKE PROJECT NO. 1

STRUCTURE NO. 45
STATE ROUTE NO. 269
PIER NO. 2

BROWN & BLAUVELT
CONTRACTING ENGINEER
DESIGN SECTION D-12

DESIGNED: RGW
DRAWN: R.J.M.S. G.W.H.
CHECKED: C.M.C.
IN CHARGE: [illegible]
DATE: March 6, 1953
SCALE: As Shown

CONTRACT NO. C- 34 SHEET 25 OF 38

49 B 1337A

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