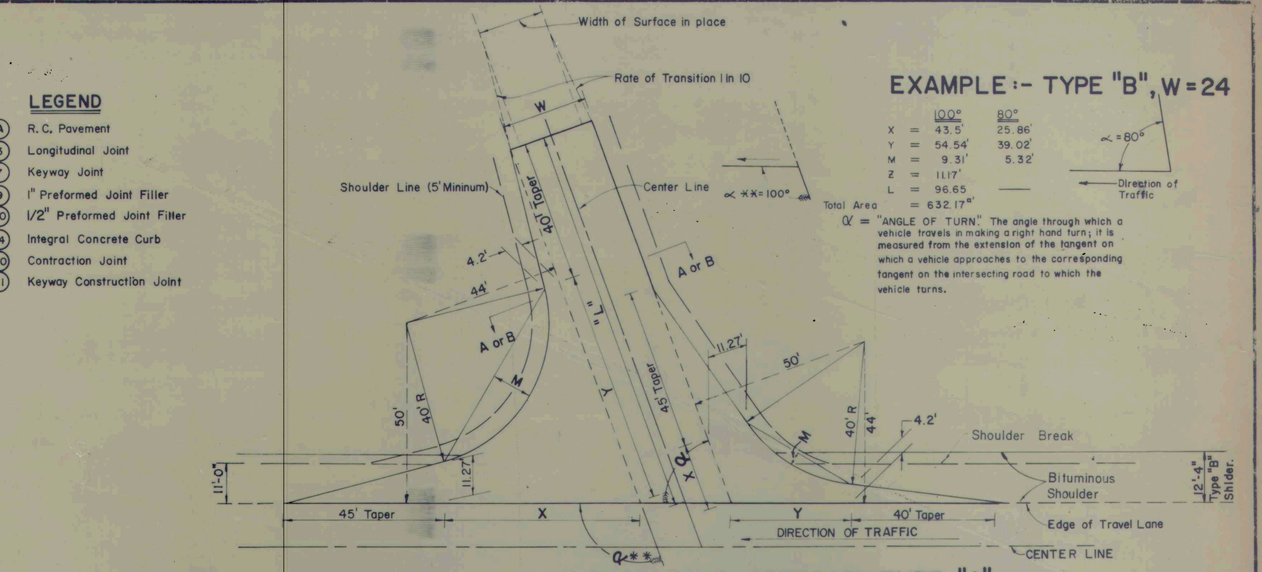
α ** (°)	X (ft.)	Y (ft.)	M (ft.)	L TYPE A W=20 (ft.)	L TYPE A W=22 (ft.)	L TYPE A W=24 (ft.)	L TYPE B W=20 (ft.)	L TYPE B W=22 (ft.)	L TYPE B W=24 (ft.)	Z (ft.)	TOTAL APPROACH AREA TYPE A W=20 (sys.)	TYPE A W=22 (sys.)	TYPE A W=24 (sys.)	TYPE B W=20 (sys.)	TYPE B W=22 (sys.)	TYPE B W=24 (sys.)	α ** (°)
110	55.02	65.23	11.66	108.87	109.23	109.60	108.87	109.23	109.60	11.71	531.19	556.28	581.52	645.05	670.14	695.38	110
109	53.75	64.04	11.42	107.48	107.82	108.17	107.48	107.82	108.17	11.63	524.90	549.63	574.51	639.55	664.28	689.15	109
108	52.51	62.88	11.18	106.12	106.45	106.77	106.12	106.45	106.77	11.57	518.88	543.25	567.78	634.32	658.70	683.22	108
107	51.30	61.74	10.94	104.80	105.10	105.41	104.80	105.10	105.41	11.50	513.11	537.15	561.32	629.37	653.40	677.57	107
106	50.11	60.64	10.70	103.50	103.79	104.08	103.50	103.79	104.08	11.44	507.60	531.30	555.13	624.67	648.37	672.20	106
105	48.95	59.56	10.46	102.24	102.51	102.77	102.24	102.51	102.77	11.39	502.33	525.70	549.20	620.23	643.61	667.10	105
104	47.81	58.51	10.23	101.00	101.25	101.50	101.00	101.25	101.50	11.34	497.30	520.35	543.52	616.04	639.10	662.26	104
103	46.70	57.48	9.99	99.79	100.02	100.25	99.79	100.02	100.25	11.29	492.50	515.24	538.08	612.10	634.83	657.68	103
102	45.61	56.48	9.76	98.60	98.81	99.02	98.60	98.81	99.02	11.25	487.92	510.35	532.88	608.39	630.82	653.34	102
101	44.54	55.49	9.54	97.44	97.63	97.83	97.44	97.63	97.83	11.21	483.57	505.69	527.91	604.91	627.04	649.25	101
100	43.50	54.54	9.31	96.30	96.47	96.65	96.30	96.47	96.65	11.17	479.42	501.26	523.16	601.66	623.49	645.40	100
99	42.47	53.60	9.09	95.18	95.34	95.50	95.18	95.34	95.50	11.14	475.49	497.03	518.64	598.63	620.17	641.78	99
98	41.46	52.68	8.87	94.09	94.23	94.37	94.09	94.23	94.37	11.11	471.77	493.02	514.34	595.83	617.08	638.39	98
97	40.47	51.78	8.65	93.10	93.13	93.26	93.01	93.13	93.26	11.08	468.25	489.22	510.24	593.24	614.21	635.23	97
96	39.50	50.90	8.44	91.96	92.06	92.17	91.96	92.06	92.17	11.06	464.93	485.62	506.36	590.86	611.56	632.29	96
95	38.54	50.04	8.22	90.92	91.01	91.10	90.92	91.01	91.10	11.04	461.80	482.21	502.68	588.70	609.12	629.58	95
94	37.60	49.20	8.01	89.90	89.97	90.04	89.90	89.97	90.04	11.03	458.87	479.02	499.20	586.74	606.89	627.07	94
93	36.68	48.38	7.80	88.90	88.96	89.01	88.90	88.96	89.01	11.02	456.12	476.01	495.91	584.99	604.88	624.79	93
92	35.77	47.57	7.60	87.92	87.96	87.99	87.92	87.96	87.99	11.01	453.57	473.19	492.83	583.45	603.07	622.71	92
91	34.88	46.78	7.39	86.96	86.97	86.99	88.96	88.94	88.93	11.00	451.20	470.56	489.94	586.57	606.29	626.01	91
90	34.00	46.00	7.19	86.00	86.00	86.00	90.00	90.00	90.00	11.00	449.01	468.12	487.23	589.85	609.85	629.85	90
89	33.14	45.24	6.99	85.07	85.05	85.04	91.06	91.07	91.09	11.00	447.01	465.87	484.72	593.33	613.61	633.90	89
88	32.28	44.50	6.80	84.15	84.12	84.08	92.13	92.16	92.20	11.01	445.18	463.80	482.40	597.03	617.58	638.16	88
87	31.44	43.77	6.60	83.24	83.19	83.14	93.22	93.27	93.33	11.02	443.54	461.91	480.26	600.93	621.77	642.64	87
86	30.61	43.05	6.41	83.30	83.37	83.44	94.33	94.40	94.47	11.03	444.20	462.79	481.60	605.04	626.18	647.34	86
85	29.79	42.35	6.22	84.42	84.51	84.59	95.46	95.55	95.64	11.04	447.35	466.32	485.34	609.37	630.80	652.27	85
84	28.99	41.66	6.04	85.55	85.65	85.76	96.61	96.72	96.82	11.06	450.69	469.96	489.27	613.92	635.65	657.42	84
83	28.19	40.98	5.86	86.70	86.82	86.94	97.78	97.90	98.03	11.08	454.22	473.79	493.41	618.70	640.72	662.81	83
82	27.41	40.31	5.68	87.87	88.01	88.15	98.97	99.11	99.26	11.11	457.95	477.82	497.75	623.70	646.03	668.43	82
81	26.63	39.66	5.50	89.05	89.21	89.37	100.19	100.35	100.51	11.14	461.88	482.05	502.30	628.93	651.58	674.30	81
80	25.86	39.02	5.35	90.26	90.44	90.61	101.43	101.61	101.78	11.17	466.00	486.49	507.06	634.40	657.37	680.42	80
79	25.10	38.39	5.15	91.49	91.68	91.88	102.69	102.89	103.08	11.21	470.34	491.15	512.04	640.11	663.40	686.78	79
78	24.36	37.77	4.98	92.74	92.95	93.16	103.98	104.20	104.41	11.25	474.89	496.02	517.24	646.07	669.69	693.41	78
77	23.62	37.16	4.81	94.01	94.24	94.47	105.30	105.53	105.76	11.29	479.66	501.11	522.67	652.78	676.24	700.31	77
76	22.88	36.56	4.65	95.31	95.56	95.81	106.64	106.89	107.14	11.34	484.65	506.44	528.34	658.75	683.06	707.48	76
75	22.16	35.98	4.49	96.63	96.90	97.17	108.02	108.29	108.55	11.39	489.87	511.99	534.24	665.50	690.16	714.94	75
74	21.44	35.40	4.33	97.98	98.26	98.55	109.42	109.71	110.00	11.44	495.32	517.79	540.39	672.52	697.54	722.68	74
73	20.72	34.84	4.17	99.36	99.66	99.97	110.86	111.16	111.47	11.50	501.01	523.84	546.80	679.82	705.21	730.72	73
72	20.02	34.28	4.02	100.76	101.08	101.41	112.33	112.65	112.98	11.57	506.96	530.14	553.47	687.42	713.18	739.08	72
71	19.32	33.74	3.86	102.20	102.54	102.88	113.83	114.17	114.52	11.63	513.16	536.71	560.42	695.32	721.46	747.75	71
70	18.63	33.20	3.72	103.66	104.03	104.39	115.37	115.73	116.10	11.71	519.62	543.55	567.64	703.54	730.07	756.76	70

Angle α** shall be the Control Angle for the Length and Total Area of the Approach.
(See Example)

LEGEND

- (A) R.C. Pavement
- (3) Longitudinal Joint
- (7) Keyway Joint
- (9) 1" Preformed Joint Filler
- (10) 1/2" Preformed Joint Filler
- (14) Integral Concrete Curb
- (20) Contraction Joint
- (21) Keyway Construction Joint



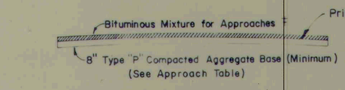
EXAMPLE :- TYPE "B", W = 24

	100°	80°
X =	43.5'	25.86'
Y =	54.54'	39.02'
M =	9.31'	5.32'
Z =	11.17'	
L =	96.65	
Total Area =	632.17 sys.	

α = 80°
Direction of Traffic

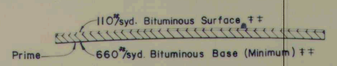
α = "ANGLE OF TURN". The angle through which a vehicle travels in making a right hand turn; it is measured from the extension of the tangent on which a vehicle approaches to the corresponding tangent on the intersecting road to which the vehicle turns.

PUBLIC ROAD APPROACH TYPE "A"



SECTION A-A

110* Per Sq. yd. — Hot Asphaltic Concrete Surface Type "B" or Hot A.E. Surface Type III
‡
220* Per Sq. yd. — Hot Asphaltic Concrete Base or Hot A.E. Base



SECTION B-B

The pay item for full depth bituminous section shall be "Bituminous Mixture for Approaches".

‡‡ 110* Per Sq. yd. — Hot Asphaltic Concrete Surface Type "B", or Hot A.E. Surface Type III
‡‡ 660* Per Sq. yd. (Min.) — Hot Asphaltic Concrete Base or Hot A.E. Base

PUBLIC ROAD APPROACH TYPE "B"

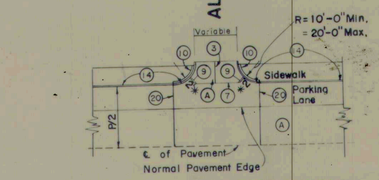
TYPE "A" Approach will be required when TYPE "B" Shoulders are Specified.

TYPE "B" Approach will be required when TYPE "A" Shoulders are Specified.

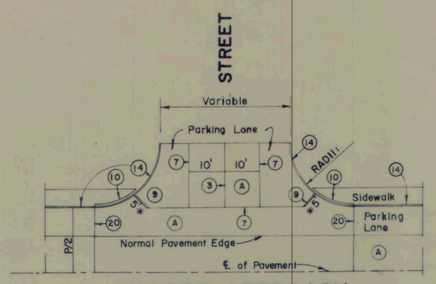
TYPE "C" Approach will be required only when a right turn lane is required. See Miscellaneous Standard Sheet MI2

NOTE :-
For angles of turn less than 70° and greater than 110° a special design will be required using WB 50 wheel path.

NOTE :-
Approaches over 115 feet in length shall be considered as being machine placed. The pay item shall be Bituminous Surface and Bituminous Base.



ALLEY APPROACH



STREET APPROACH

RADII: (1) Radii of 25 feet at minor cross streets should be provided on new construction and on reconstruction where space permits.

(2) Radii of 30 feet or more at major cross streets should be provided where feasible so that an occasional truck can turn without too much encroachment.

(3) Radii of 40 feet or more at major cross streets should be provided where large truck combinations and buses turn repeatedly.

* Ear Construction Type "B" as shown on Misc. Std. Sheet "MI-1" permitted.

MISCELLANEOUS STANDARDS

STATE OF INDIANA

FEBRUARY 1971

REVISIONS	
10-2-72	Shlders
7-2-73	TYPE "C" APPROACH
10-1-74	TYPES "A" & "B" ALLEY APP.

RECOMMENDED FOR APPROVAL _____ ENGINEER OF ROAD DESIGN

APPROVED S R Yoder CHIEF DIVISION OF DESIGN

APPROVED M W Herrmann CHIEF HIGHWAY ENGINEER

SHEET MI

November 6, 1961

SHEET NO. 88 19

RECORD DRAWING