STATE OF OHIO
DEPARTMENT OF HIGHWAYS
LUC-280-(2.06-3.79)
LUC.—75-(9.37-9.54)
CITY OF TOLEDO
CITY OF OREGON
LUCAS COUNTY

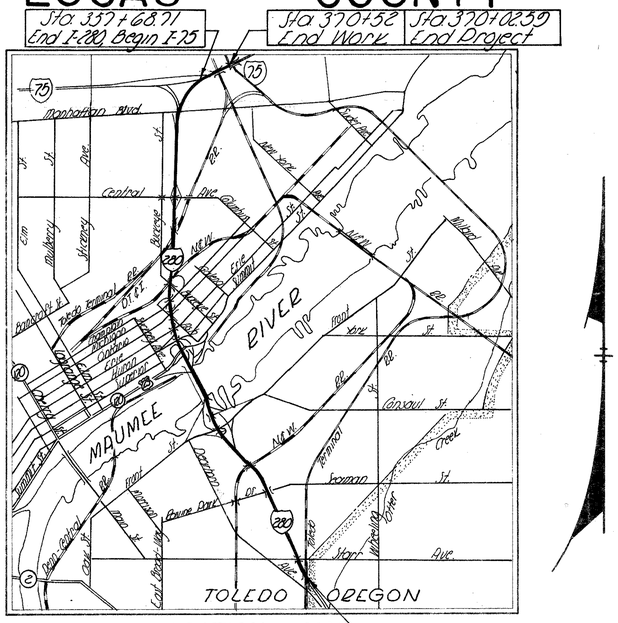
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-280-2(6)80 I-75-6(41)209	

1/75

I-280-2(6)80
I-75-6(41)209

Luc-280-(2.06-3.79)
Luc-75-(9.37-9.54)

Sta 337+68.71 End I-280 Begin I-75
Sta 370+52 End Work
Sta 370+02.59 End Project



LOCATION MAP
SCALE OF MILES
0 ½ 1 1½ 2

Sta 160+20 Begin Project
Sta 159+90 Begin Work

Portion to be improved
State Roads
Other Roads

CONVENTIONAL SIGNS

County Line
Township Line
Section Line
Corporation Line or
Fence Line (existing) —x—x— (proposed) —x—x— 352 353
Center Line
Trees , Stumps , (to be removed)
Utility Poles: Telephone , Power , Light

Limited Access (only) LA
Right of Way (only) RW
Limited Access & Right of Way LA&RW
Existing Right of Way
Property Line (in existing fence)
Railroad
Guardrail (existing) (proposed)

INDEX OF SHEETS

LINE DATA

I-280

Begin Work Sta 159+90
End Work Sta 337+68.71
Gross Length = 19,778.71 Lin.Ft.
Add for equations = 81.24 Lin.Ft.
19,859.95 Lin.Ft.

Begin Project Sta 160+20
End Project Sta 337+68.71
Gross Length = 19,748.71 Lin.Ft.
Add for equations = 81.24 Lin.Ft.
19,829.95 Lin.Ft.

Total Work = 19,859.95 Lin.Ft.
1,283.29 Lin.Ft.
21,143.24 Lin.Ft. = 4.004 Mi.

I-75

Begin Work = Sta 337+68.71
End Work = Sta 370+52
1283.29 Lin.Ft.

Begin Project = Sta 337+68.71
End Project = Sta 370+02.59
1233.88 Lin.Ft.

Total Project = 19829.95 Lin.Ft.
1,233.88 Lin.Ft.
21,063.83 Lin.Ft. = 3.989 Mi.

Plan Prepared By:
Div. 2 - O.S.O.H.

SCALES

Plan 0' 50' 100'
Profile: Horizontal 0' 50' 100'
Profile: Vertical 0' 5' 10'

LIMITED ACCESS

This improvement is especially designed for thru traffic and has been declared a limited access highway or freeway by action of the Director of Highways in accordance with the provisions of Section 5511.02 of the Revised Code of Ohio.

1969 SPECIFICATIONS

The standard specifications of the State of Ohio, Department of Highways, including changes and supplemental specifications listed in the proposal shall govern this improvement.

The right of way for this improvement will be provided by the State of Ohio.

I hereby approve these plans and declare that the making of this improvement will not require the closing of the highway to traffic and that provisions for the maintenance and safety of traffic will be as set forth on the plans and estimates

Approved _____
Date 1-19-70 City Manager, City Of Toledo

Approved R. H. Rice
Date 1-23-70 Division Deputy Director

Approved C. A. Altwater
Date 2-2-70 Engineer of Bridges

Approved R. E. Catlin
Date 2-4-70 Engineer of Location & Design

Approved George J. Thormyer
Date 2-4-70 Deputy Director of Design & Construction

Approved _____
Date _____ Deputy Director of Right of Way

Approved Thomas M Major
Date 2-27-70 Deputy Director of Planning & Programming

Approved _____
Date _____ First Assistant Director

Approved R. S. Markley
Date 2-27-70 Director of Highways

Sheet Nos. 2, 3, 9, & 14 Revised 11-19-70 AWG

SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS							
BD-5	6-1-65	MC-3	6-20-69				
BD-6	6-1-65	MC-4	6-13-69				
BD-7	1-1-66	MC-6	6-1-65				
CB22A&B	6-1-65	MH-1	10-1-68				
CB-6	6-1-65	MH-1A	10-1-68				
F-1	3-10-69	F-5	3-10-69				
F-3	3-10-69						
FACI-1	9-15-67						
FACI-2	6-1-65						
GR-2B	2-15-68						
I-2	6-6-69						
I-2A	6-6-69						
MC-1	6-13-69						

SUPPLEMENTAL SPECIFICATIONS	
1001 -	1-1-69
815 -	1-1-69
938 -	8-12-69
836	6-17-69
806	1-1-69

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
BUREAU OF PUBLIC ROADS
APPROVED:

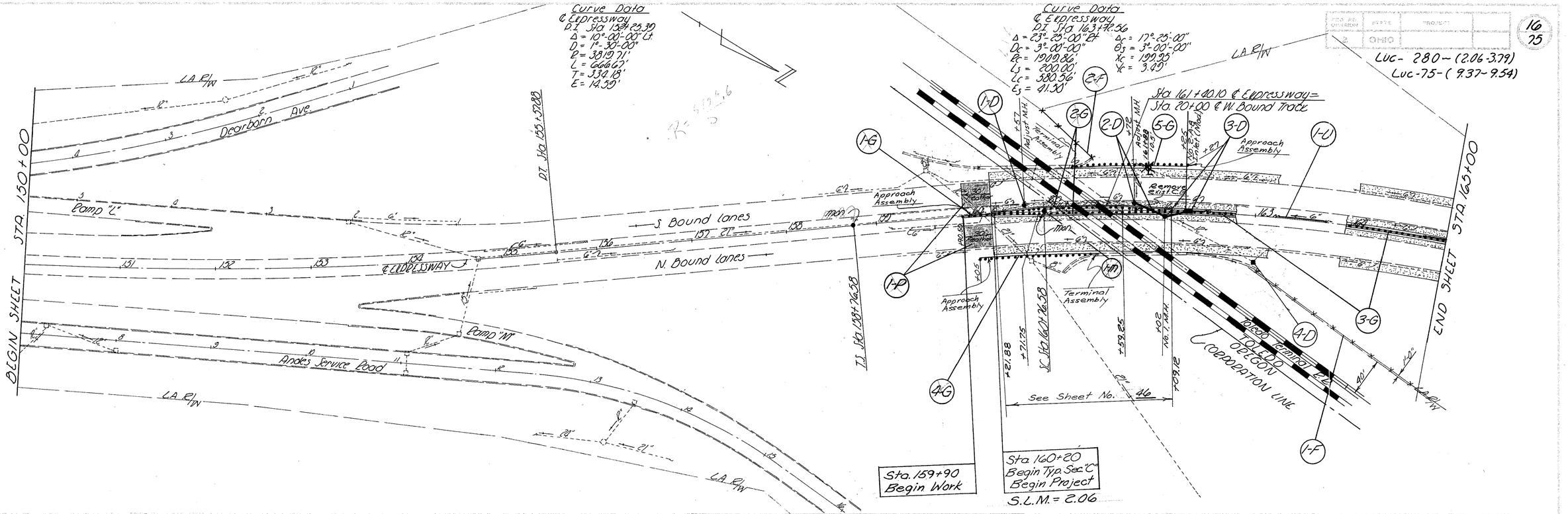
DIVISION ENGINEER DATE

Project:
Date of Letting 19 , Contract No.

SEAL

LD 0300

LUC-280-(2.06-3.79)
LUC-75-(9.37-9.54)



(1-D) Sta. 160+57, ℄, Adjust exist. M.H. Supply heavy casting

(2-D) Sta. 161+72, 8'Lt., Adjust exist. M.H. Supply heavy casting
Sta. 161+72, ℄, Remove exist. C.B.
Sta. 161+72, 8'Lt. to Sta. 162+02, 8'Rt., Lay 34 Lin. Ft., 15" Conduit, Type B

(3-D) Sta. 162+02±, 8'Rt., Const. No. 1, M.H. (Heavy Casting), Connect exist. 12" pipe
Sta. 162+02, 8'Rt. to Sta. 162+25, ℄, Lay 24 Lin. Ft., 12" Conduit, Type B
Sta. 162+25, ℄, Const. No. 2-A-8 Shoulder Inlet, (Mod)

(4-D) Sta. 163+00, 51'Rt., Reconstruct exist. inlet to grade

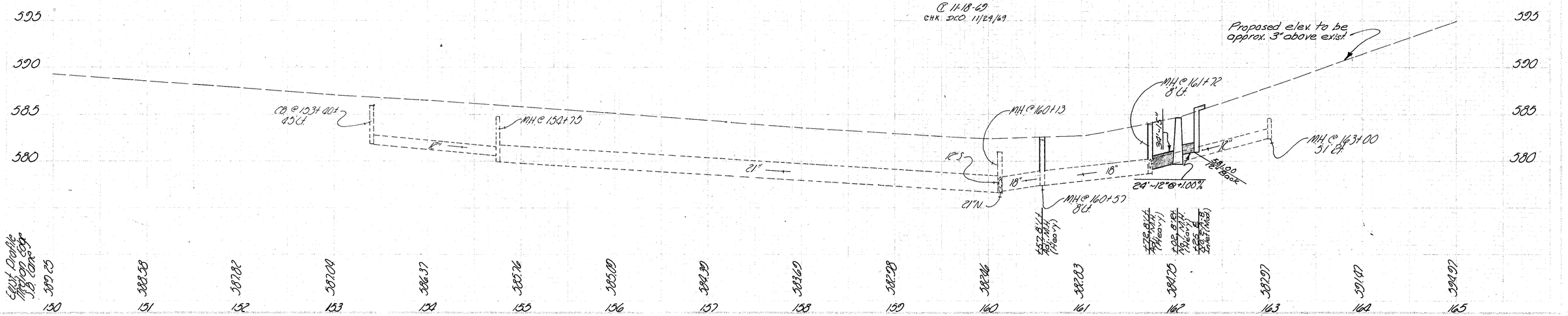
BERM & MEDIAN QUANTITIES

	301 Bit. Agg. Base	304 Agg. Base	310 Subbase	409 Seal Coat	612 Conc. Median
	Cu.Yd.	Cu.Yd.	Cu.Yd	Sq.Yd.	Sq.Yd.
Lt. Side	44.44	88.89	88.89	533.33	
Median	56.89	177.08	236.11	682.69	379.80
Rt. Side	44.44	88.89	88.89	533.33	
Totals to Calc.	145.77	354.86	413.89	1749.35	379.80

℄ 11-18-69
CHK. DCO 11/29/69

(H) Sta. 162+25 to Sta. 165+00 = 275 Lin. Ft.

(1-F) Sta. 163+05, 58'Rt. to Sta. 165+00, 158'Rt. = 230 Lin. Ft.
(2-F) Sta 160+80, 105'Lt. to Sta. 161+30, 55'Lt. = 75 Lin. Ft.



LUC ~ 280 ~ (2.06 ~ 3.79)
LUC ~ 75 ~ (9.37 ~ 9.54)


Sta 168+02.08
Suspend Typ. Sec. "C"
Sta. 17+00
For Details of Median Barrier Guard Rail across structure, see Sh. No. 54
NOTE: LUC-280-0220
Remove exist. wearing course
Waterproof Deck
Provide new wearing course
Exist. Curve Data ℄ Exp.
P.I. Sta 176+69.22
Δ = 8° 57' 02"
D = 1° 00' 00"
R = 5729.58'
T = 448.44'
E = 17.52'
L = 895.06'
Exist Curve Data ℄ Gessner
P.I. Sta 8+45.47
Δ = 21° 29.32'
D = 9° 00' 00"
R = 636.62'
T = 120.82'
L = 238.80'
Sta. 172+21
Suspend Typ. Sec. "A"
Begin Typ. Sec. "B"
P.C. Sta 18+14.56 ℄ Starr
Sta. 168+61.20 Exp.
Sta 20+04.96 ℄ Starr
P.T. Sta 19+85.39 ℄ Starr
Terminal Assembly
Anchor Assembly
Approach Assembly
Remove exist. G.R.
P.C. Sta. 172+20.87 ℄ Exp.
GESSNER ST
Conc. Sidewalk
RAMP N
Sta 5+00 Ramp N
P.T. Sta 9+63.45 Gessner
Sta. 5+68.40 Ramp N
BEGIN SHEET Sta 165+00
END SHEET Sta 180+00
S. Bound Lane
℄ EXPRESSWAY
N Bound Lane
STARR AVE.
RAMP "O"
Remove exist. curb
Light Poles to be moved
Exist Curve Data ℄ Exp.
P.I. Sta 163+72.56
Δ = 23° 25' 00"
Dc = 3° 00' 00"
Rc = 1909.86'
Ls = 200.00'
Ts = 495.98'
Es = 41.50
Δc = 17° 25' 00"
Lc = 580.56'
Os = 3° 00' 00"
Toledo Edison Co. Steel Transmission Tower #246
Sta. 0+04.57 Ramp "O"
Sta 21+95.05 ℄ Starr
Sta. 169+20.32
Begin Typ. Sec. "A"
Sta. 22+50
R = 337'
2' min. width conc. base
3" Asphalt conc. over conc. base
Berm over Conc. base
40:1 Taper
Conc. Base Detail

(1-F) Sta. 165+00, 158' Rt. to Sta. 21+00, Starr Ave, 54' Rt. = 396 Lin. Ft.
(2-F) Sta. 22+94, Starr Ave 38' Lt. to Sta. 180+00, 86.75' Lt. = 1256 Lin. Ft.

(1-U) Sta. 165+00 to Sta. 168+15 = 315 Lin. Ft.
(2-U) Sta. 169+31 to Sta. 169+95 = 64 Lin. Ft.
(3-U) Sta. 170+00 to Sta. 172+00 = 200 Lin. Ft.
(4-U) Sta. 172+00 to Sta. 180+00 = 800 Lin. Ft.

(1-D) Sta. 169+32, ℄, Remove exist. M.H.
Sta. 169+31.25, ℄, Const. No. 1, M.H. (Light Casting)
Sta. 169+32, ℄, to Sta. 170+00, ℄, Lay 68 Lin. Ft., 12" Conduit, Type B
Sta. 170+00, ℄, Const. No. 2-A-6 Shoulder Inlet (Mod.)


Proposed profile to be approx. 3" above exist.
Remove M.H. @ 169+31
68' - 12"
12" ℄
605.40 170+00 ℄
615
610
605
600
595
Exist. Profile Median Edge N. Bd. Lane
594.97
598.47
601.97
603.07
609.55
611.33
612.81
613.28
612.87
612.33
611.79
611.25
610.71
610.17
609.63
609.09
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180

BERM & MEDIAN QUANTITIES

	301	304	310	409	612
	Bit Agg. Base	Agg. Base	Subbase	Seal Coat	Conc. Median
	Cu. Yd.	Cu. Yd.	Cu. Yd.	Sq. Yd	Sq. Yd.
Lt. Side	137.90	275.79	275.79	1,654.74	
Median	185.39	523.19	697.59	2,224.70	914.46
Ramp "O"	51.47	102.95	102.95	617.67	
Rt. Side	107.57	215.14	215.14	1,290.83	
Totals to Calc Sht.	482.33	1,117.07	1,291.47	5787.94	914.46

C 11-18-69
CHK 11/24/69

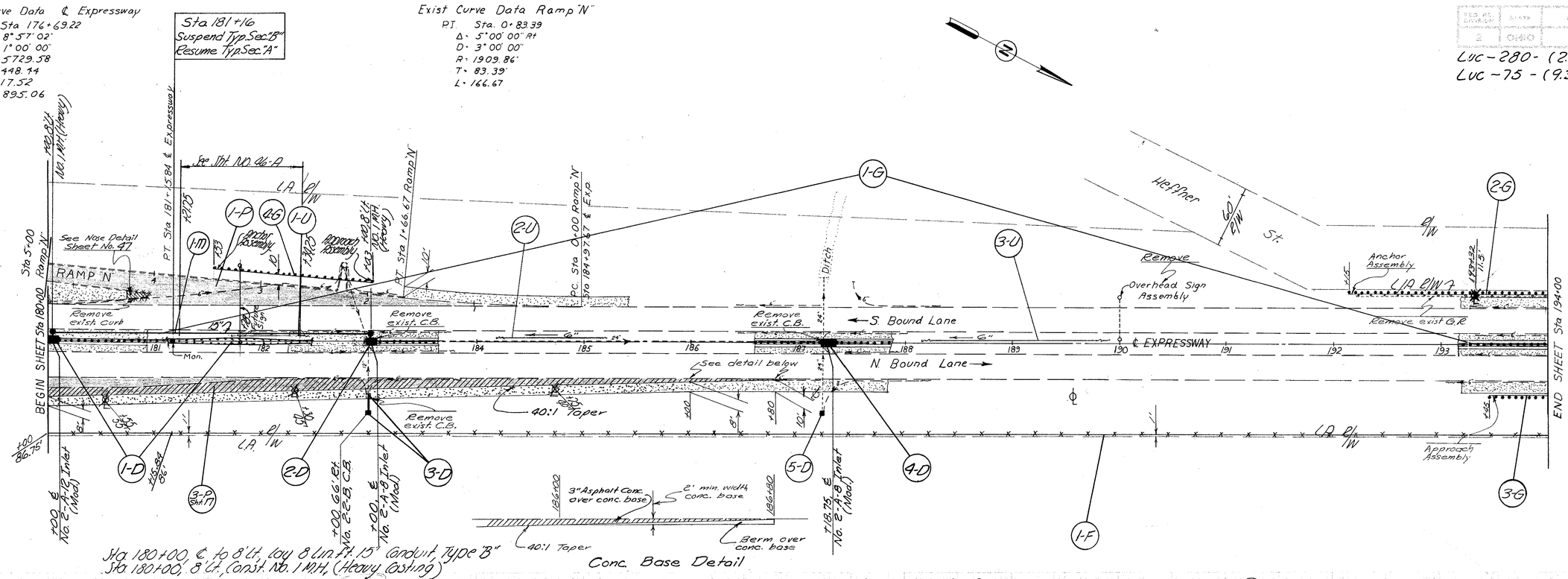
Sta. 165+00 to Sta. 180+00

LUC-280-(2.06-3.79)
LUC-75-(9.37-9.54)

Exist Curve Data ℄ Expressway
P.I. Sta 176+69.22
Δ = 8°57'02"
D = 1°00'00"
R = 5729.58
T = 448.14
E = 17.52
L = 895.06

Exist Curve Data Ramp "N"
P.I. Sta. 0+83.39
Δ = 5°00'00" Rt
D = 3°00'00"
R = 1909.86'
T = 83.39'
L = 166.67

Sta 181+16
Suspend Typ Sec "B"
Resume Typ Sec "A"



Conc. Base Detail

(1-D) Sta 180+00, ℄, Const. No. 2-A-12, Shoulder Inlet (Mod.)
Sta 180+00, ℄, to Sta 183+00, ℄, Lay 300 Lin. Ft. 15" Conduit, Type B
Sta 180+00, 8' Lt. Const. No. 1 MH, (Heavy Casting)

(2-D) Sta 183+00, ℄, Remove exist. C.B.
Sta 183+00, ℄, Const. No. 2-A-8 Shoulder Inlet (Mod.)
Sta 183+00, 8' Lt. to Sta 183+00, 66' Rt. Lay 8 Lin. Ft. 18" Conduit, Type B
Sta 183+00 8' Lt. Const. No. 1 MH. (Heavy Casting)

(3-D) Sta 183+00, 52' Rt. Remove exist. C.B.
Sta 183+00, 62' Rt. Const. No. 2-2-B, C.B.
Sta 183+00, 62' Rt. to 62' Rt, Lay 10 Lin. Ft., 12" Conduit, Type B

(4-D) Sta 187+20, ℄, Remove exist. C.B.
Sta 187+18.75, ℄, Const. No. 2-A-8 Shoulder Inlet (Mod.)

(5-D) Sta 187+21, 66' Rt., Reconstruct exist. inlet to grade

(1-U) Sta 180+10 to Sta 183+00 = 290 Lin. Ft.

(2-U) Sta 183+00 to Sta 187+10 = 410 Lin. Ft.

(3-U) Sta 187+18 to Sta 194+00 = 682 Lin. Ft.

(1-F) Sta 180+00, 86.75' Rt. to Sta 194+00, 86' Rt. = 1400 Lin. Ft.

Sta 180+00 to Sta 194+00

BERM & MEDIAN QUANTITIES

	301 Bit Agg. Base	304 Agg. Base	310 Subbase	409 Seal Coat	612 Conc. Median	604 Temp. Median Pav't.
	Cu. Yd.	Cu Yd.	Cu. Yd.	Sq. Yd.	Sq. Yd.	Sq. Yd
Lt. Side	98.98	197.96	197.96	1187.78		
Median	181.48	518.52	698.15	2,177.78	926.66	6.67
Ramp "N"	9.59	19.18	19.18	115.11		
Rt. Side	117.78	235.56	235.56	1413.33		
Totals to Calc. Sht.	407.83	971.22	1100.85	4,894	926.66	6.67

℄ 11-18-69
OHK 11/24/69 DCO


Exist Curve Data ℄ Expressway
P.I. Sta 200+07.01
Δ = 16° 10' 54" Lt
D = 2° 00' 00"
R = 2864.79'
T = 407.25'
L = 809.08'
E = 28.80'
Sta. 194+65 Suspend Typ.Sec."A"
Sta. 196+00 Suspend Typ.Sec."A" Res. Typ.Sec."B"
Sta. 204+09 Suspend Typ.Sec."B" Resume Typ.Sec."A"
Sta. 195+56 Resume Typ.Sec."A"
For Details of Median Barrier Guard Rail across structure, See Sh. No. 54
See Sheet No. 46
BEGIN SHEET Sta. 194+00
END SHEET Sta. 209+00
S. Bound Lane
N. Bound Lane
℄ EXPRESSWAY
Remove exist. G.R.
Remove exist. C.B.
Terminal Assembly
Approach Assembly
Anchor Assembly
P.I. Sta 200+07.01
Adjust M.H. (Heavy)
Omit Median Pav't as per Det. Sh. 46A
Toledo Edison Co. Steel Transmission Tower #14
NOTE: LUC-280-0271
Remove exist wearing course
Waterproof Deck
Provide new wearing course
Berm over conc. base
2" min. width conc. base
40:1 Taper
3" asphalt over conc. base
Conc. Base Detail

(1-U) Sta. 194+00 to Sta. 194+75 = 75 Lin.Ft.
(2-U) Sta. 195+45 to Sta. 200+50 = 505 Lin.Ft.
(3-U) Sta. 200+60 to Sta. 206+75 = 615 Lin.Ft.
(4-U) Sta. 206+85 to Sta. 207+50 = 65 Lin.Ft.
(5-U) Sta. 208+00 to Sta. 209+00 = 100 Lin.Ft.

(1-D) Sta. 198+80, 38' Rt., Adjust M.H. to grade, supply heavy casting

(2-D) Sta. 200+50, ℄, Remove exist. C.B.
Sta. 200+50, ℄, Const. No. 2-A-8, Shoulder Inlet (Mod.)

(3-D) Sta. 206+75, ℄, Const. No. 2-A-10, Shoulder Inlet (Mod.)

(4-D) Sta. 207+50, ℄, Remove exist. C.B.
Sta. 207+50, ℄, Const. No. 1, M.H. (Light Casting)

(5-D) Sta. 207+00, 51' Lt., Reconstruct exist. Inlet to grade

(1-F) Sta. 194+00, 86' Rt. to Sta. 194+54, 68' Rt. = 68 Lin.Ft.
(2-F) Sta. 195+46, 72' Rt. to Sta. 207+10, 57' Rt. = 1320 Lin.Ft.
(3-F) Sta. 207+40, 100' Lt. to Sta. 207+37, 55' Lt. = 50 Lin.Ft.
(4-F) Sta. 208+20, 135' Rt. to Sta. 208+05, 57' Rt. = 115 Lin.Ft.
(5-F) Sta. 208+60, 180' Lt. to Sta. 208+30, 57' Lt. = 150 Lin.Ft.

BERM & MEDIAN QUANTITIES

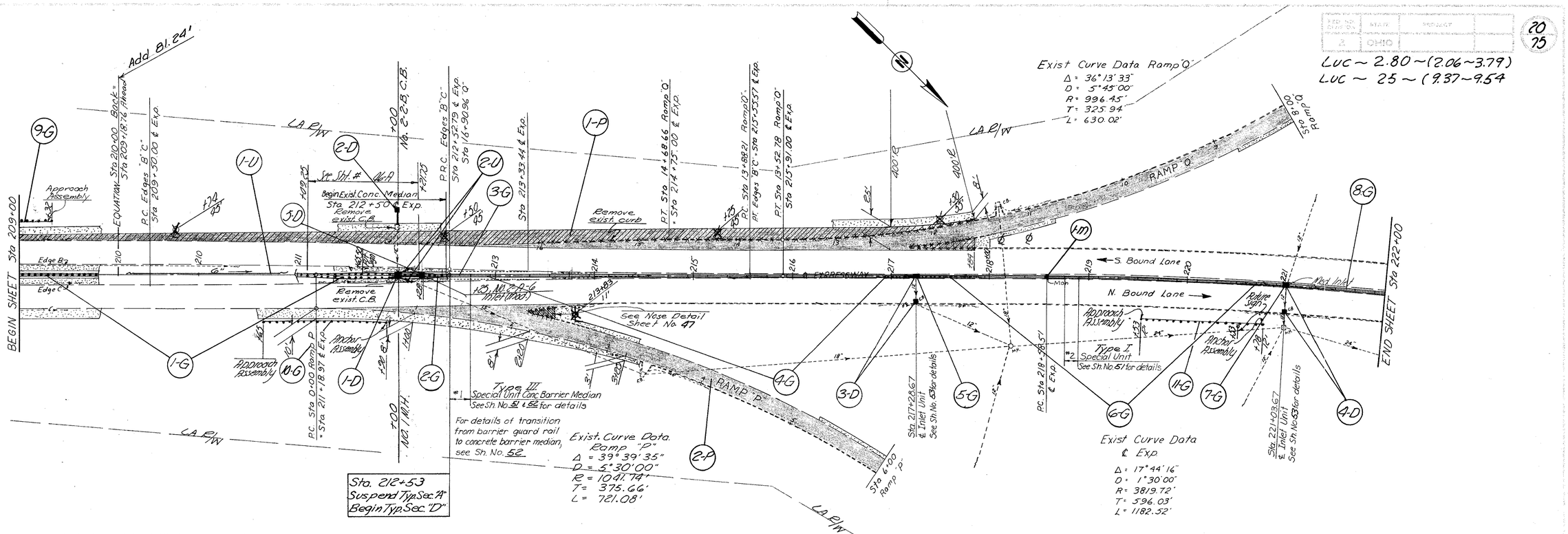
	301 Bit. Agg. Base Cu.Yd	304 Agg Base Cu.Yd.	310 Subbase Cu.Yd.	409 Seal Coat Sq.Yd	612 Conc. Median Sq.Yd.	404 Temp. Median Pav't Sq.Yd.
Lt. Side	131.60	263.19	263.19	1,579		
Median	184.91	532.67	710.22	2218.94	925.95	17.78
Rt. Side	133.24	266.48	266.48	1,598.89		
Totals to Calc.	449.75	1062.34	1,239.89	5,396.83	925.95	17.78

℄ 11-18-69


615
610
605
600
200' V.C.
+0.56%
Proposed elev. to be approx. 3" above exist.
-1.12%
Remove MH @ +50
-0.36%
MH @ +50 Remove
18"
+80 38' Rt. Adjust M.H.
+50 ℄ No. 2-A-8 Inlet (Mod.)
+75 ℄ No. 2-A-10 Inlet (Mod.)
+50 ℄ No. 1 M.H.
613.63 614.08 613.78 612.72 611.54 610.37 609.20 608.03 606.85 605.68 604.51 603.30 602.16 601.19 600.63 600.27
194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209

Sta. 194+00 to Sta. 209+00

LUC ~ 2.80 ~ (2.06 ~ 3.79)
LUC ~ 25 ~ (9.37 ~ 9.54



(1-U) Sta. 209+00 to Sta. 212+00 = 300'+81' = 381 Lin Ft.
(2-U) Sta. 212+00 to Sta. 212+10 = 10' x 2 sides = 20 Lin Ft.

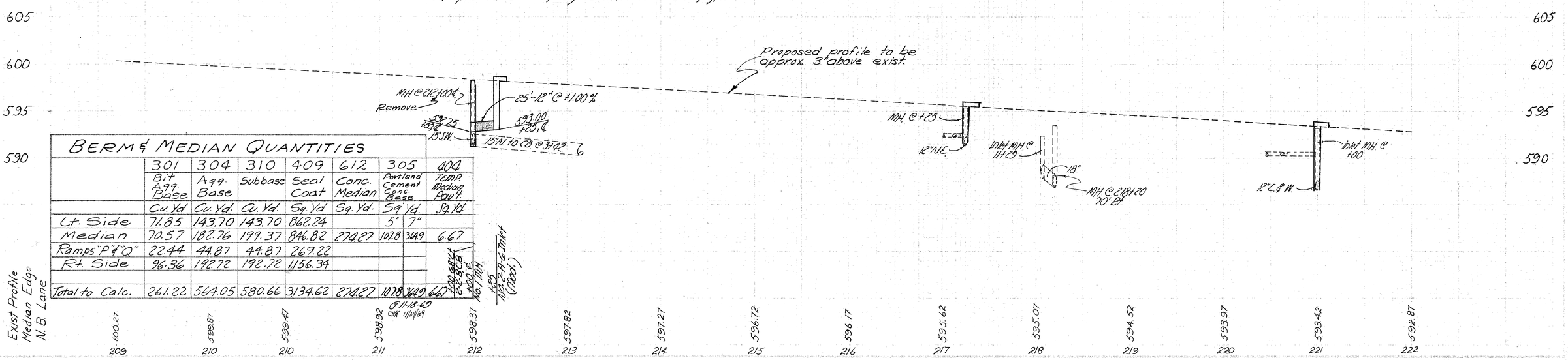
(1-D) Sta. 212+00, ℄, Remove exist. C.B.
Sta. 212+00, ℄, Const. No. 1 M.H.

(2-D) Sta. 212+00, 48' Lt., Remove exist. C.B.
Sta. 212+00, 63' Lt., Const. No. 2-2-B C.B.
Sta. 212+00, 48' Lt. to 63' Lt., Lay 15' Lin. Ft., 15" Conduit, Type B

(3-D) Sta. 212+25, ℄, Const. No. 2-9-6, Shoulder Inlet (Mod.)
Sta. 212+00, ℄ to Sta. 212+25, Lay 25 Lin. Ft. 12" Conduit, Type "B"

(3-D) Sta. 217+25, ℄, Remove exist. C.B.
Sta. 217+25, ℄, Const. No. 2-10 Median Inlet, Mod. No. 2
Sta. 217+25, 28' Rt., Adjust exist. C.B. to grade

(4-D) Sta. 221+00, ℄, Remove exist. C.B.
Sta. 221+00, ℄, Const. No. 2-10 Median Inlet, Mod. No. 1
Sta. 221+00, 28' Rt., Adjust exist. C.B. to grade



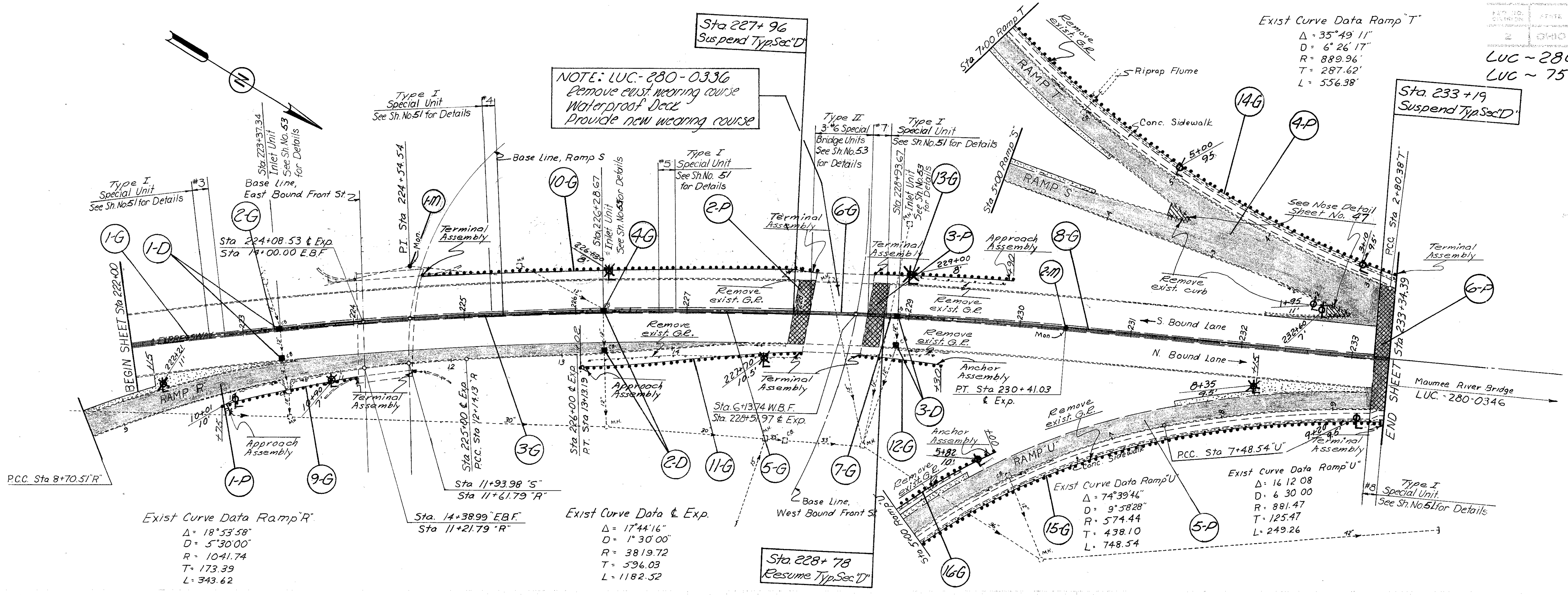
BERM & MEDIAN QUANTITIES

	301 Bit Agg. Base	304 Agg. Base	310 Subbase	409 Seal Coat	612 Conc. Median	305 Portland Cement Conc. Base		401 TEMP. Median Pavt.
	Cu. Yd.	Cu. Yd.	Cu. Yd.	Sq. Yd.	Sq. Yd.	Sq. Yd.		Sq. Yd.
Ct. Side	71.85	143.70	143.70	862.24		5"	7"	
Median	70.57	182.76	199.37	846.82	274.27	101.8	364.9	6.67
Ramps "P" & "Q"	22.44	44.87	44.87	269.22				
Rt. Side	96.36	192.72	192.72	1156.34				
Total to Calc.	261.22	564.05	580.66	3134.62	274.27	101.8	364.9	6.67

Sta 209+00 to Sta 222+00

G 11-18-69
CHK 11/24/69

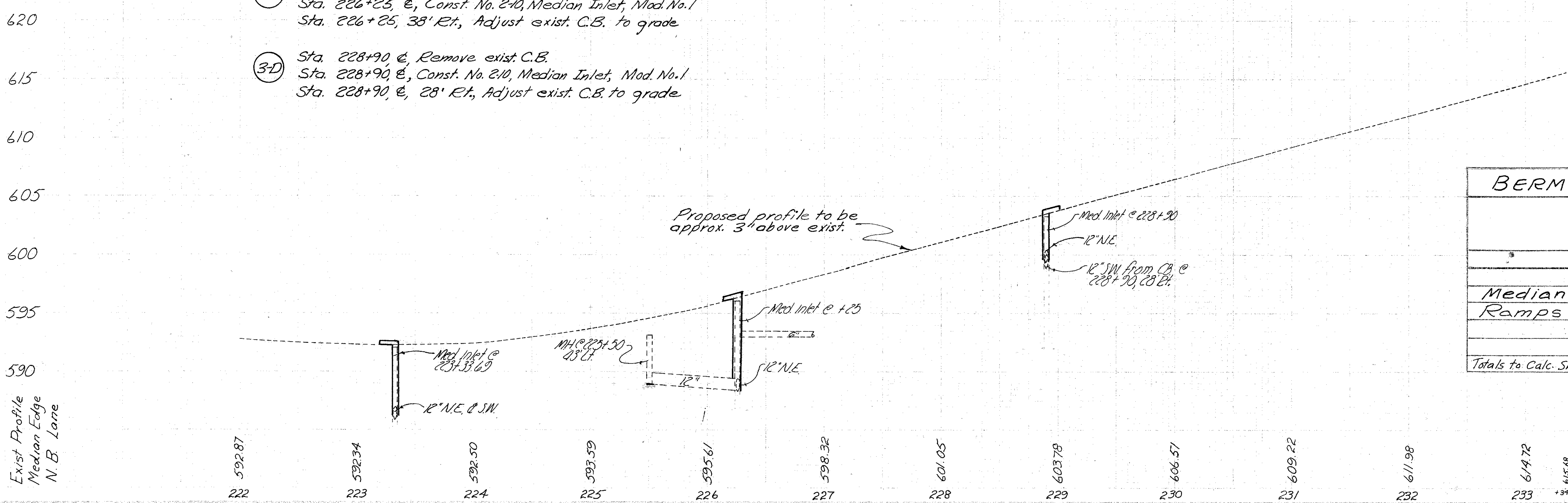
LUC ~ 280 ~ (2.06 ~ 3.79)
LUC ~ 75 ~ (9.37 ~ 9.54)


Sta 227+96
Suspend Typ.Sec."D"
NOTE: LUC-280-0336
Remove exist. wearing course
Waterproof Deck
Provide new wearing course
Sta. 233+19
Suspend Typ.Sec."D"
Exist Curve Data Ramp "T"
Δ = 35°49' 11"
D = 6° 26' 17"
R = 889.96'
T = 287.62'
L = 556.38'
Riprap Flume
Conc. Sidewalk
RAMP "T"
RAMP "S"
RAMP "R"
RAMP "U"
Base Line, Ramp S
Base Line, East Bound Front St.
Base Line, West Bound Front St.
S. Bound Lane
N. Bound Lane
Maumee River Bridge
LUC.-280-0346
BEGIN SHEET Sta 222+00
END SHEET Sta 233+34.39
Terminal Assembly
Approach Assembly
Anchor Assembly
Remove exist. G.R.
Remove exist. curb
See Nose Detail Sheet No. 47
Type I Special Unit See Sh. No. 51 for Details
Type II 3'-6" Special Bridge Units See Sh. No. 53 for Details
P.C.C. Sta 8+70.51 "R"
P.C.C. Sta 7+48.54 "U"
PT. Sta 230+41.03 ¢ Exp.
Sta. 11+93.98 "S"
Sta 11+61.79 "R"
Sta. 14+38.99 "E.B.F."
Sta 11+21.79 "R"
Sta 224+08.53 ¢ Exp.
Sta 14+00.00 E.B.F.
Sta. G+13.74 W.B.F.
Sta. 228+51.97 ¢ Exp.
Exist Curve Data Ramp "R"
Δ = 18°53'58"
D = 5°30'00"
R = 1041.74
T = 173.39
L = 343.62
Exist Curve Data ¢ Exp.
Δ = 17°44'16"
D = 1° 30' 00"
R = 3819.72
T = 596.03
L = 1182.52
Exist Curve Data Ramp "U"
Δ = 74°39'46"
D = 9°58'28"
R = 574.44
T = 438.10
L = 748.54
Exist Curve Data Ramp "U"
Δ = 16 12 08
D = 6 30 00
R = 881.47
T = 125.47
L = 249.26
Sta. 228+78
Resume Typ.Sec."D"

(1-D) Sta. 223+33.69, ¢, Remove exist. C.B.
Sta. 223+33.69, Const. No. 2-10, Median Inlet, Mod. No. 1
Sta. 223+33.69 28' Rt., Adjust exist. C.B. to grade

(2-D) Sta. 226+25, ¢, Remove exist. C.B.
Sta. 226+25, ¢, Const. No. 2-10, Median Inlet, Mod. No. 1
Sta. 226+25, 38' Rt., Adjust exist. C.B. to grade

(3-D) Sta. 228+90, ¢, Remove exist. C.B.
Sta. 228+90, ¢, Const. No. 2-10, Median Inlet, Mod. No. 1
Sta. 228+90, ¢, 28' Rt., Adjust exist. C.B. to grade


Proposed profile to be approx. 3" above exist.
Med. Inlet @ 228+90
12" N.E.
12" SW. from CB @ 228+90, 28' Rt.
Med. Inlet @ +25
12" N.E.
MH @ 225+50 23' Lt.
Med. Inlet @ 223+33.69
12" N.E. & SW.
Exist Profile Median Edge N.B. Lane
620
615
610
605
600
595
590
592.87
592.34
592.50
593.59
595.61
598.32
601.05
603.78
606.51
609.22
611.98
614.72
615.68
222
223
224
225
226
227
228
229
230
231
232
233
+34.39

BERM & MEDIAN QUANTITIES	301	304	310	409	612	305	
	Bit Agg. Base	Agg. Base	Subbase	Seal Coat	Conc. Median	Portland Cement Conc. Base	
	Cu. Yd.	Cu. Yd.	Cu. Yd.	Sq. Yd.	Sq. Yd.	Sq. Yd.	
						5"	7"
Median						180.4	481.2
Ramps	34.83	69.66	69.66	417.99			
Totals to Calc. Sht.	34.83	69.66	69.66	417.99		180.4	481.2

G 11-19-69
CHK DCO 11/24/69

MED. NO.	STATE	PROJECT	
2	OHIO		

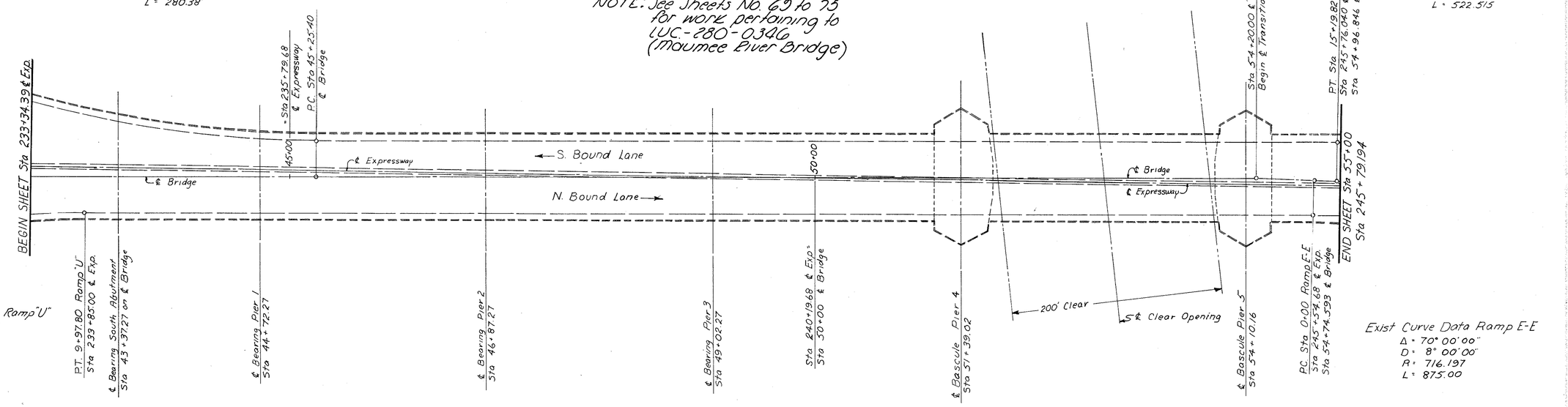
22
75

LUC-280-(2.06-3.79)
LUC-75-(9.37-9.54)

Exist Curve Data Ramp "T"
Δ = 15°13'25"
D = 5°25'46"
R = 1055.26'
T = 141.02'
L = 280.38'

NOTE: See Sheets No. 69 to 75 for work pertaining to LUC-280-0346 (Maumee River Bridge)

Exist Curve Data Ramp X
Δ = 86°12'54"
D = 16°30'00"
R = 347.247
T = 325.033
L = 522.515



Exist Curve Data Ramp "U"
Δ = 16°12'08"
D = 6°30'00"
R = 881.47
T = 125.47
L = 249.26

Exist Curve Data Ramp E-E
Δ = 70°00'00"
D = 8°00'00"
R = 716.197
L = 875.00

CWH DRAFTING

Sta 233+34.39 to Sta 245+79.19

LUC-280-(2.06-3.79)
LUC-75-(9.37-9.54)

(1-U) Sta. 255+50 to Sta 258+25 = 325 Lin. Ft.
(2-U) Sta. 259+50 to Sta. 260+00 = 50 Lin. Ft.

(3-D) Sta. 258+30, 57' Lt, Reconstruct exist. inlet
(4-D) Sta. 10+00, Ramp "Y", 32' Rt. Reconstruct exist. inlet

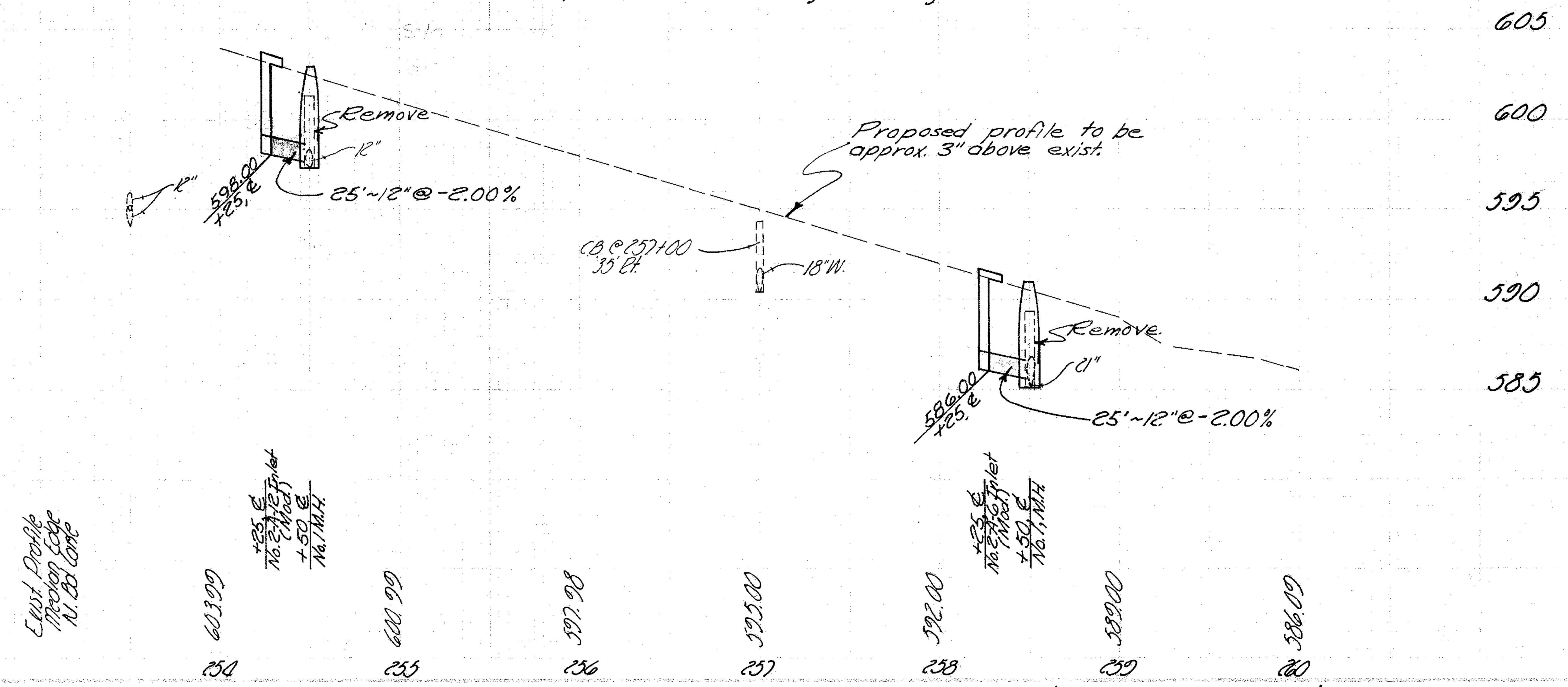
(1-D)
Sta. 254+25, ℄, Const. No. 2-A-12, Shoulder Inlet (Mod.)
Sta. 254+25, ℄, to Sta. 254+50, ℄, Lay 25 Lin. Ft., 12" Conduit, Type B
Sta. 254+50, ℄, Remove exist. C.B.
Sta. 254+50, ℄, Const. No. 1, M.H. (Light Casting)

(2-D)
Sta. 258+25, ℄, Const. No. 2-A-6, Shoulder Inlet (Mod.)
Sta. 258+25, ℄, to Sta. 258+50, ℄, Lay 25 Lin. Ft., 12 Conduit, Type B
Sta. 258+50, ℄, Remove exist. C.B.
Sta. 258+50, ℄, Const. No. 1, M.H. (Light Casting)

BERM & MEDIAN QUANTITIES

	301	304	310	409	612	305		404
	Bit. Agg. Base	Agg. Base	Subbase	Seal Coat	Conc. Median	Portland Cement Conc. Base		Temp. Median Pav't.
	Cu. Yd.	Cu. Yd	Cu. Yd.	Sq. Yd.	Sq. Yd.	Sq. Yd.		Sq. Yd.
Lt Side	30.09	60.18	60.18	361.11		5"	7"	
Median	79.09	238.60	293.70	948.73	496.28		115.3	22.22
Ramps	34.39	68.78	68.78	412.67				
Rt. Side	22.05	44.10	44.10	264.64				
Totals to Calc.	165.62	411.66	466.76	1,987.15	496.28		115.3	22.22

C 11-19-69
CHK DCO 11/24/69



Sta 245+79.19 to Sta 260+00

LUC-280-(2.06-3.79)
LUC-75-(9.37-9.54)

(1-D) Sta. 262+62.50, ℄ Const. 2-A-8 Shoulder Inlet (Mod.)
Sta. 262+63, ℄ to Sta. 263+00, ℄, Lay 37 Lin. Ft. 12" Conduit, Type B
Sta. 263+00, ℄, Remove exist. C.B.
Sta. 263+00, ℄, Const. No. 1, C.B. (Light Casting)
Sta. 263+09, 8' Rt. Adjust exist. M.H., furnish heavy casting

(1-U) Sta. 260+00, to Sta. 262+62 = 262 Lin. Ft.
(2-U) Sta. 263+85, to Sta. 264+62 = 77 Lin. Ft.
(3-U) Sta. 266+15, to Sta. 268+81 = 266 Lin. Ft.
(4-U) Sta. 270+30, to Sta. 273+50 = 320 Lin. Ft.

(2-D) Sta. 264+62.50, ℄, Const. 2-A-6 Shoulder Inlet (Mod.)
Sta. 264+62.50, ℄ to Sta. 264+62.50, 8' Rt., Lay 8 Lin. Ft. 12" Conduit, Type B
Sta. 264+62.50, 8' Rt. Lay 12" on 21" Tee for Type B Conduit

(3-D) Sta. 265+25, ℄, Remove exist. C.B. connect exist. pipe through
Sta. 265+25, 8' Rt., Adjust exist. M.H. to grade, furnish heavy casting

(4-D) Sta. 268+00, 8' Rt., Adjust exist. M.H. to grade, furnish heavy casting

(5-D) Sta. 268+36.25 ℄, Const. 2-A-6, Shoulder Inlet (Mod.)
Sta. 268+36.25 ℄, to 8' Rt., Lay 8 Lin. Ft., 12" Conduit, Type B
Sta. 268+36.25, 8' Rt.; Lay 12" on 21" Tee for Type B Conduit

(6-D) Sta. 269+38, ℄, Remove exist. C.B.
Sta. 269+43, 8' Rt., Adjust exist. M.H. to grade, furnish heavy casting

(7-D) Sta. 271+80, 8' Rt., Adjust exist. M.H. to grade, furnish heavy casting

(8-D) Sta. 273+50, ℄, Const. 2-A-6 Shoulder Inlet (Mod.)
Sta. 273+50, ℄ to 8' Rt., Lay 8 Lin. Ft. 12" Conduit, Type B
Sta. 273+50, 8' Rt., Lay 12" on 24" Tee, for Type B Conduit

(9-D) Sta. 273+75, ℄, Remove exist. C.B., connect exist. pipe through
Sta. 274+00, 8' Rt., Adjust exist. M.H. to grade, furnish heavy casting

(10-D) Sta. 261+25, 53' Lt. Reconstruct exist. inlet to grade

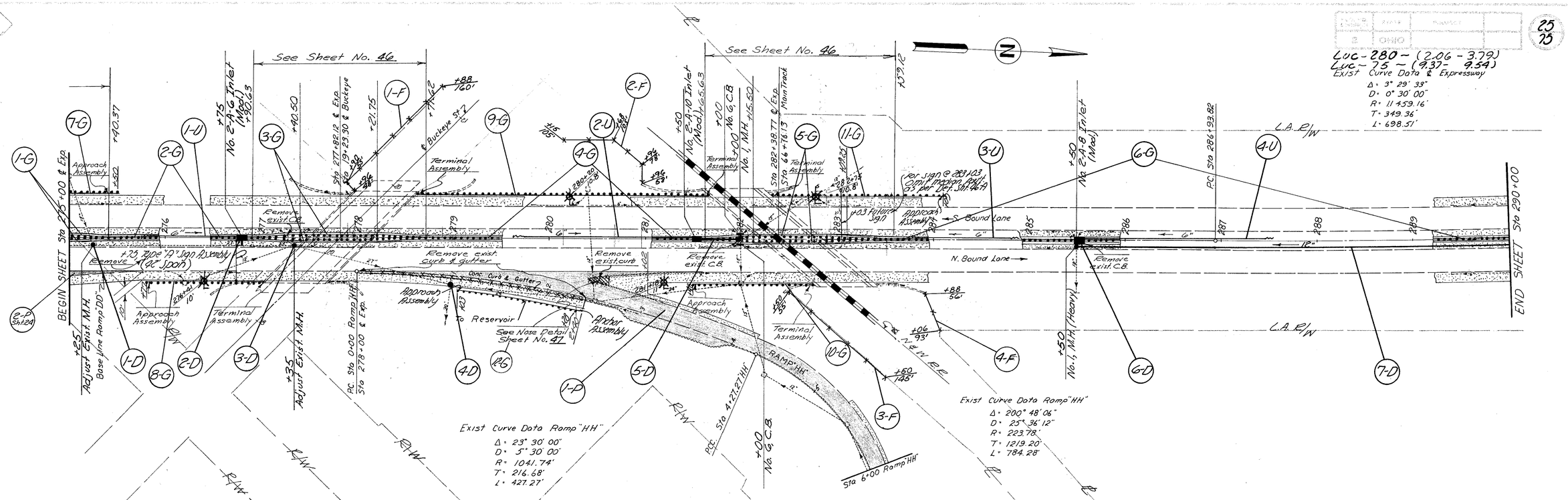
(11-D) Sta. 272+50, 62' Lt. Reconstruct exist. inlet to grade.

BERM & MEDIAN QUANTITIES

	301	304	310	409	612	404
	Bit Agg Base	Agg. Base	Subbase	Seal Coat	Conc. Median	Temp. Median Pav't.
	Cu. Yd.	Cu. Yd	Cu. Yd.	Sq. Yd.	Sq. Yd.	
Lt. Side	120.21	240.42	240.42	1,442.56		
Median	176.11	555.49	740.66	2,113.34	1,250.18	22.22
Ramps.	35.50	71.00	71.00	426.00		
Rt. Side	124.01	248.02	248.02	1,488.13		
Totals to Calc.	455.83	1,114.93	1,300.10	5,470.03	1,250.18	22.22

C 11-19-69 CHK DCO 11/24/69

Sta 260+00 to Sta 275+00



FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

25/25

Luc-280 ~ (2.06 - 3.79)
Luc~75 ~ (9.37- 9.54)

Exist Curve Data ℄ Expressway
Δ = 3° 29' 33"
D = 0° 30' 00"
R = 11 459.16'
T = 349.36'
L = 698.51'

① Sta. 275+25, 8' Rt., Adjust exist. M.H. to grade, furnish heavy casting

(1-D) Sta. 275+25, 8' Rt., Adjust exist. M.H. to grade, furnish heavy casting

(2-D)
Sta. 276+75, ℄, Const. 2-A-6, Shoulder Inlet, (Mod.)
Sta. 276+75, ℄ to 8' Rt., Lay 8 Lin. Ft., 12" conduit, Type B
Sta. 276+75, 8' Rt., Lay 12" on 27" Tee for Type B Conduit

(3-D)
Sta. 277+25, ℄, Remove exist. C.B.
Sta. 277+35, 8' Rt., Adjust exist. M.H. to grade, furnish heavy casting

(4-D) Sta. 279+00, 48' Rt., Adjust exist. M.H. to grade, furnish heavy casting

(1-F) Sta. 277+96, 48' Lt. to Sta. 278+88, 160' Lt. = 150 Lin. Ft.
(2-F) Sta. 280+15, 105' Lt. to Sta. 280+96, 58' Lt. = 110 Lin. Ft.
(3-F) Sta. 282+50, 55' Rt. to Sta. 283+50, 145' Rt. = 135 Lin. Ft.
(4-F) Sta. 283+88, 56' Rt. to Sta. 284+06, 93' Rt. = 40 Lin. Ft.

(5-D)
Sta. 281+50, ℄, Const. 2-A-10, Shoulder Inlet, (Mod.)
Sta. 281+50, ℄ to Sta. 282+00, ℄, Lay 50 Lin. Ft., 12" Conduit, Type B
Sta. 282+00, 5' Lt., Const. Std. No. 6, C.B.
Sta. 282+00, 5' Lt. to ℄, Lay 5 Lin. Ft., 12" Conduit, Type B
Sta. 282+00, ℄, Remove exist. C.B.
Sta. 282+00, ℄, Const. Std. No. 1 M.H. (Light Casting)
Sta. 282+00, 5' Rt., Const. Std. No. 6, C.B., connect exist. 15" pipe

(1-U) Sta. 275+00 to Sta. 276+75 = 175 Lin. Ft.
(2-U) Sta. 278+20 to Sta. 281+50 = 330 Lin. Ft.
(3-U) Sta. 282+00 to Sta. 285+45 = 345 Lin. Ft.
(4-U) Sta. 285+50 to Sta. 290+00 = 450 Lin. Ft.

(6-D)
Sta. 285+50, ℄, Remove exist. C.B.
Sta. 285+50, ℄, Const. 2-A-8 Shoulder Inlet (Mod.)
Sta. 285+50, ℄ to 8' Rt., Lay 8 Lin. Ft., 12" Conduit, Type D
Sta. 285+50, 8' Rt., Const. Std. No. 1, M.H. (Heavy Casting)

(7-D)
Sta. 285+50, 8' Rt. to Sta. 291+00, 8' Rt.
Lay 550 Lin. Ft., 12" Conduit, Type B

BERM & MEDIAN QUANTITIES

	301	304	310	409	612	404
	Bit. Agg. Base	Agg. Base	Subbase	Seal Coat	Conc. Median	Temp. Median Pav't.
	Cu. Yd.	Cu. Yd	Cu. Yd.	Sq. Yd.	Sq. Yd.	Sq. Yd.
Lt. Side	138.89	277.78	277.78	1,666.67		
Median	187.14	561.04	701.30	2,245.72	1,131.61	11.11
Rt. Side	147.62	295.24	295.24	1,771.39		
Totals to Calc.	473.65	1,134.06	1,274.32	5,683.78	1,131.61	11.11

C 11-19-69
CHK 11/24/69 DCO

Sta 275+00 to Sta 290+00

NOTE: LUC-280-0465
Remove exist. wearing course
Waterproof deck
Provide new wearing course

BEGIN SHEET STA. 290+00

END SHEET STA. 305+00

Sta. 294+95.77
Suspend TypSec. 2A

Sta. 300+50.33
Resume TypSec. 2A

Exist. Curve Data Expressway
P.I. Sta. 290+43.18
Δ = 0°30'00"
D = 11,459.16'
R = 500'
T = 349.36'
L = 698.51'

Exist. Curve Data Ramp "D-P"
P.I. Sta. 7+62.95
Δ = 18°15'07"
D = 5°30'00"
R = 1041.24'
T = 167.05'
L = 332.05'

Exist. Curve Data Ramp "U-U"
P.I. Sta. 6+53.84
Δ = 8°55'09"
D = 3°00'00"
R = 1909.86'
T = 149.14'
L = 297.67'

Exist. Curve Data Expressway
P.I. Sta. 300+07.79
Δ = 3°37'15"
D = 0°30'00"
R = 11,459.16'
T = 362.58'
L = 724.85'

(1-D) Sta. 291+00, ℄, Const. No. 2-A-8 Shoulder Inlet (Mod.)
Sta. 291+00, ℄ to 8' Rt., Lay 8 Lin. Ft. 12" Conduit, Type B
Sta. 291+00, 8' Rt., Const. Std. No. 1 M.H. (Heavy Casting)

(1-F) Sta. 293+82, 93' Lt. to Sta. 298+20, 139' Rt. = 500 Lin. Ft.

(2-F) Sta. 297+55, 119' Lt. to Sta. 301+85, 104' Rt. = 490 Lin. Ft.

(1-U) Sta. 290+00 to Sta. 290+95 = 95 Lin. Ft.

(2-U) Sta. 291+00 to Sta. 295+10 = 410 Lin. Ft.

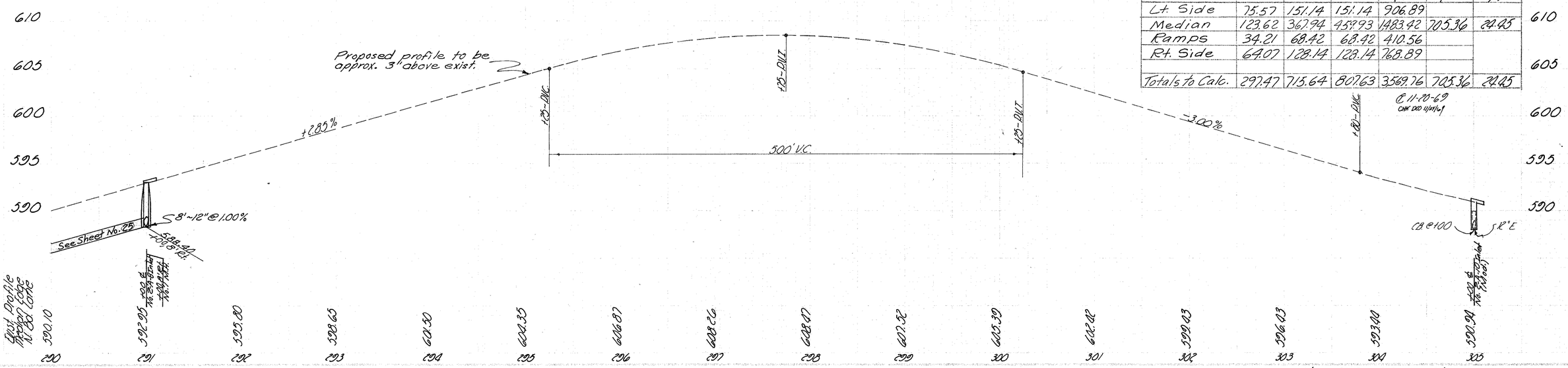
(3-U) Sta. 300+40 to Sta. 305+00 = 460 Lin. Ft.

(2-D) Sta. 305+00, ℄, Remove exist. C.B.
Sta. 305+00, ℄, Const. No. 2-A-10 Shoulder Inlet (Mod.)

BERM & MEDIAN QUANTITIES

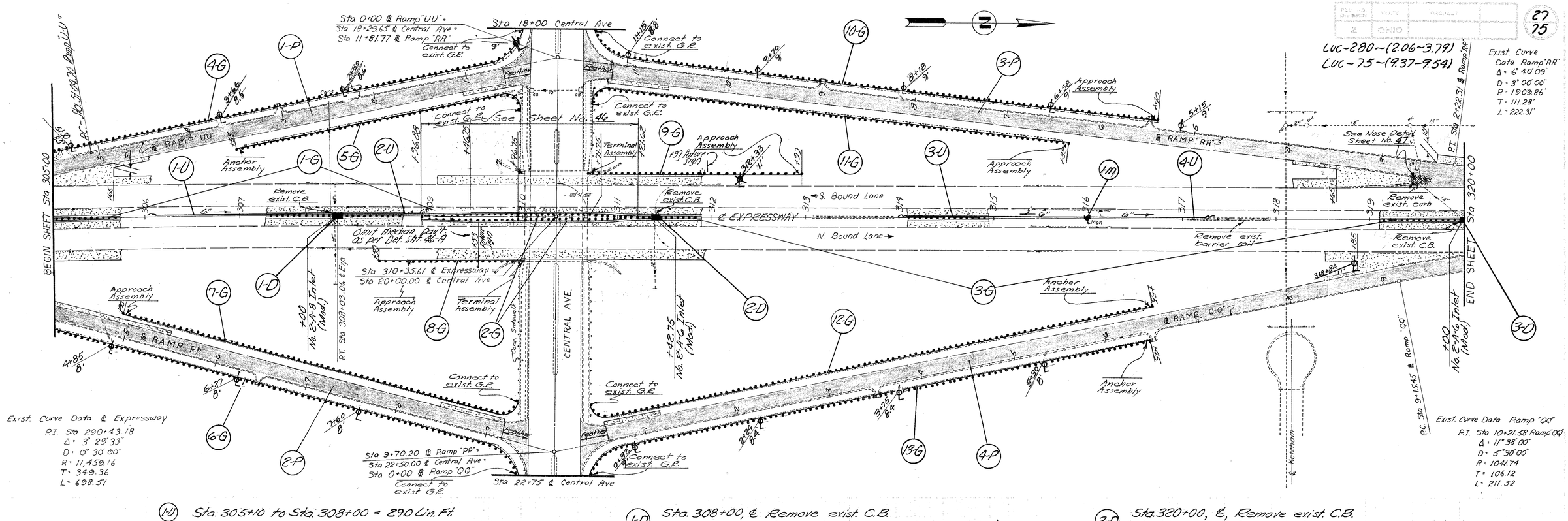
	301 Bit Agg. Base	304 Agg. Base	310 Subbase	409 Seal Coat	612 Conc. Median	900 Temp. Impact Att.
	Cu. Yd	Cu. Yd.	Cu. Yd.	Sq. Yd.	Sq. Yd.	Sq. Yd.
Lt. Side	75.57	151.14	151.14	906.89		
Median	123.62	367.94	457.93	1483.42	705.36	24.45
Ramps	34.21	68.42	68.42	410.56		
Rt. Side	64.07	128.14	128.14	768.89		
Totals to Calc.	297.47	715.64	807.63	3569.76	705.36	24.45

E 11-20-69
CHK DDO 11/21/69



Sta. 290+00 to Sta. 305+00

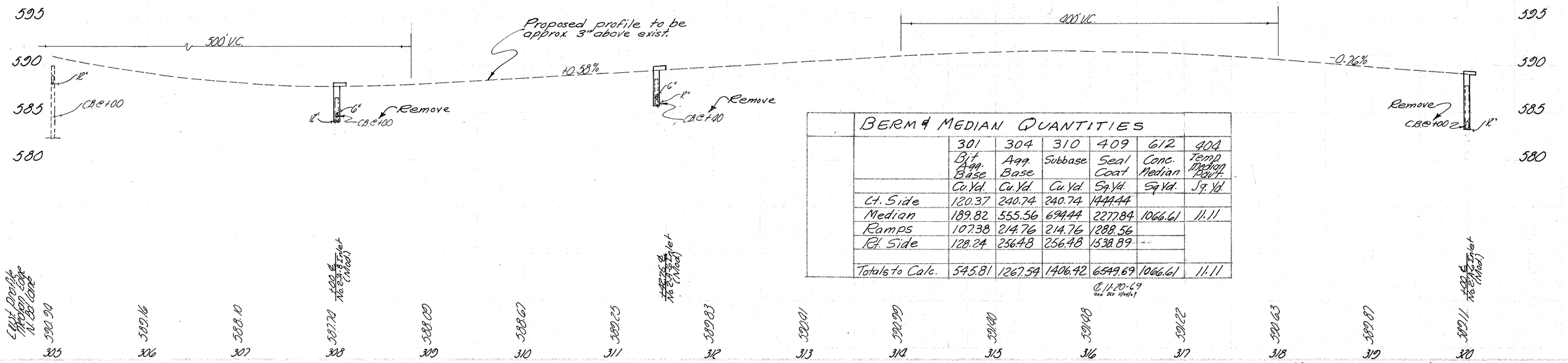
LUC-280-(2.06-3.79)
LUC-75-(9.37-9.54)



(1-U) Sta. 305+10 to Sta. 308+00 = 290 Lin. Ft.
(2-U) Sta. 308+00 to Sta. 309+95 = 195 Lin. Ft.
(3-U) Sta. 311+43 to Sta 316+00 = 457 Lin. Ft.
(4-U) Sta. 316+00 to Sta. 320+00 = 400 Lin. Ft.

(1-D) Sta. 308+00, ℄, Remove exist. C.B.
Sta. 308+00, ℄, Const. No. 2-A-8 Shoulder Inlet (Mod.)
(2-D) Sta. 311+40, ℄, Remove exist. C.B.
Sta. 311+42.75, ℄, Const. No. 2-A-6 Shoulder Inlet (Mod.)

(3-D) Sta. 320+00, ℄, Remove exist. C.B.
Sta. 320+00, ℄, Const. No. 2-A-6 Shoulder Inlet (Mod.)



BERM & MEDIAN QUANTITIES

	301 Bit. Agg. Base	304 Agg. Base	310 Subbase	409 Seal Coat	612 Conc. Median	404 Temp. Median Pavt.
	Cu. Yd.	Cu. Yd.	Cu. Yd.	Sq. Yd.	Sq. Yd.	Sq. Yd.
Ct. Side	120.37	240.74	240.74	1444.44		
Median	189.82	555.56	694.44	2277.84	1066.61	11.11
Ramps	107.38	214.76	214.76	1288.56		
Rt. Side	128.24	256.48	256.48	1538.89	---	
Totals to Calc.	545.81	1267.54	1406.92	6549.69	1066.61	11.11

℄ 11.20-69
One Bid Width

LUC-280-(2.06-3.79)
LUC-75-(9.37-9.54)

Exist. Curve Data Ramp "2-2"
P.I. Sta. 1+11.28
Δ = 6°40'09"
D = 3°00'00"
R = 1909.86'
T = 111.28
L = 222.31

Exist. Curve Data Ramp "4-D"
P.I. Sta. 7+83.66
Δ = 15°13'30"
D = 8°00'00"
R = 716.20'
T = 95.32'
L = 190.31'

Exist. Curve Data Lane "B"
P.I. Sta. 336+20.94
Δ = 18°00'00"
D_a = 6°00'00"
L_s = 200.00'
θ_s = 3°00'00"
R = 1432.39'
T_s = 352.12'
L_s = 179.70'
Δ_c = 5°00'00"
L_c = 200.00'

Exist. Curve Data Ramp "Q-Q"
P.I. Sta. 10+21.38
Δ = 11°38'00"
D = 5°30'00"
R = 1041.74'
T = 106.12'
L = 211.52'

Exist. Curve Data Lane "C"
P.I. Sta. 329+67.35
Δ = 9°00'00"
D = 2°00'00"
R = 2864.79'
T = 225.46'
L = 450.00'

Exist. Curve Data Ramp "K-K"
P.I. Sta. 1+32.97
Δ = 13°43'30"
D = 5°00'00"
R = 1145.92'
T = 137.97'
L = 274.64

Exist. Curve Data Lane "A"
P.I. Sta. 330+68.06
Δ = 9°00'00"
D = 2°00'00"
R = 2864.79'
T = 225.46'
L = 450.00'

(1-U) Sta. 320+10 to Sta. 325+62 = 552 Lin. Ft.

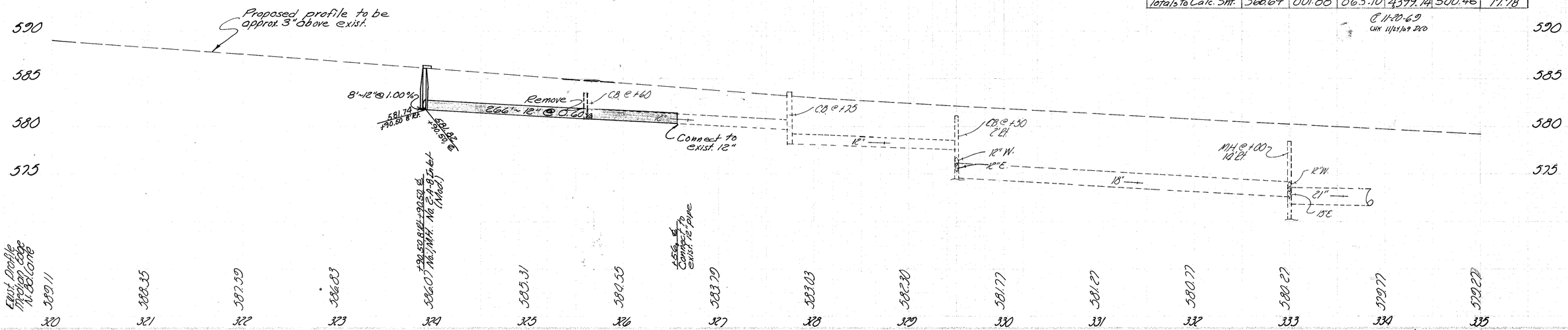
(1-D) Sta. 323+90.50, ℄, Const. No. 2-A-8 Shoulder Inlet (Mod.)
Sta. 323+90.50, ℄ to 8' Rt., Lay 8 Lin. Ft., 12" Conduit, Class B
Sta. 323+90.50, 8' Rt., Const. Std. No. 1, M.H. (Heavy)
Sta. 323+90.50, 8' Rt. to Sta. 326+56, ℄,
Lay 266 Lin. Ft. 12" Conduit, Class B
Sta. 325+60, ℄, Remove exist. C.B.

(2-D) Sta. 329+50, 63' Lt., Adjust exist. inlet to grade
(3-D) Sta. 329+50, 51' Rt., Adjust exist. inlet to grade
(4-D) Sta. 333+00, 66' Lt., Adjust exist. inlet to grade
(5-D) Sta. 332+50, Lane "A", 71' Rt., Adjust exist. inlet to grade

BERM & MEDIAN QUANTITIES

	301 Bit. Agg. Base	304 Agg. Base	310 Subbase	409 Seal Coat	612 Conc. Median	404 Temp. Median Pavt.
	Cu. Yd.	Cu. Yd.	Cu. Yd.	Sq. Yd.	Sq. Yd.	Sq. Yd.
Ct. Side	122.58	245.16	245.16	1471.01		
Median	71.56	211.71	269.64	858.69	500.46	17.78
Lane "B"	16.57	33.15	41.44	198.89		
Rt. Side	107.70	215.40	215.40	1,292.37		
Ramps	48.23	96.46	96.46	578.78		
Totals to Calc. Sht.	366.64	801.88	863.10	4399.74	500.46	17.78

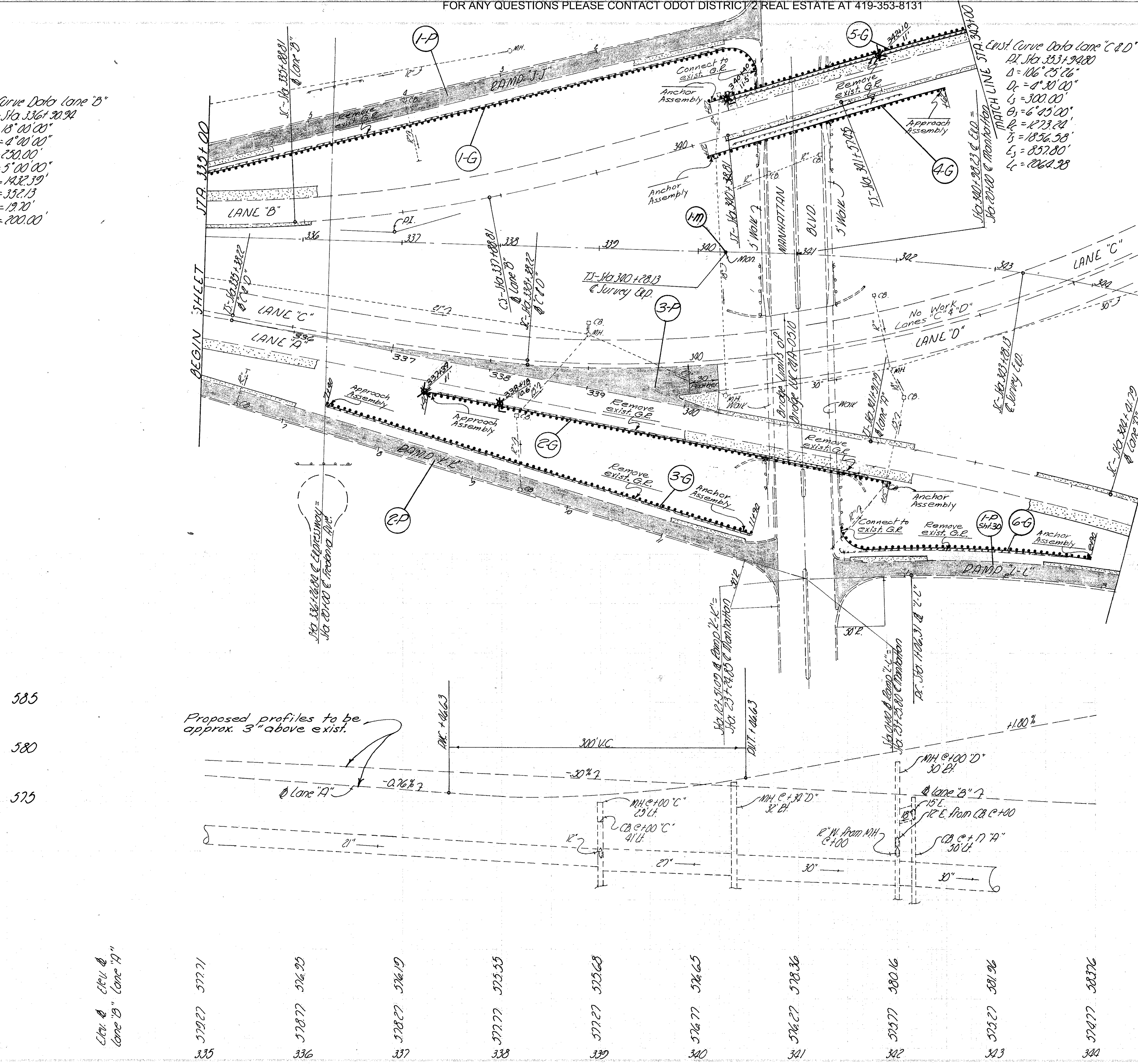
℄ 11-20-69
CHK 11/24/69 DCO



29
75

LUC-280 ~ (2.06~3.79)
LUC-75 ~ (9.37-9.54)

Exist. Curve Data Lane "B"
P.I. Sta. 336+90.94
Δ = 18°00'00"
D_c = 4°00'00"
L_s = 250.00'
$θ_s$ = 5°00'00"
R_c = 1432.39'
T_s = 352.13
E_s = 19.70'
L_c = 200.00'



Exist. Curve Data Lane "C" & "D"
P.I. Sta. 353+94.80
Δ = 106°25'26"
D_c = 7°30'00"
L_s = 300.00'
$θ_s$ = 6°45'00"
R_c = 1273.24'
T_s = 1856.58'
E_s = 857.80'
L_c = 2064.98

Exist. Curve Data Lane "B"
P.I. Sta. 353+25.16
Δ = 100°34'30"
D_c = 7°00'00"
L_s = 350.00'
$θ_s$ = 12°15'00"
R_c = 818.51'
T_s = 1167.71'
E_s = 472.30'
L_c = 1086.80'

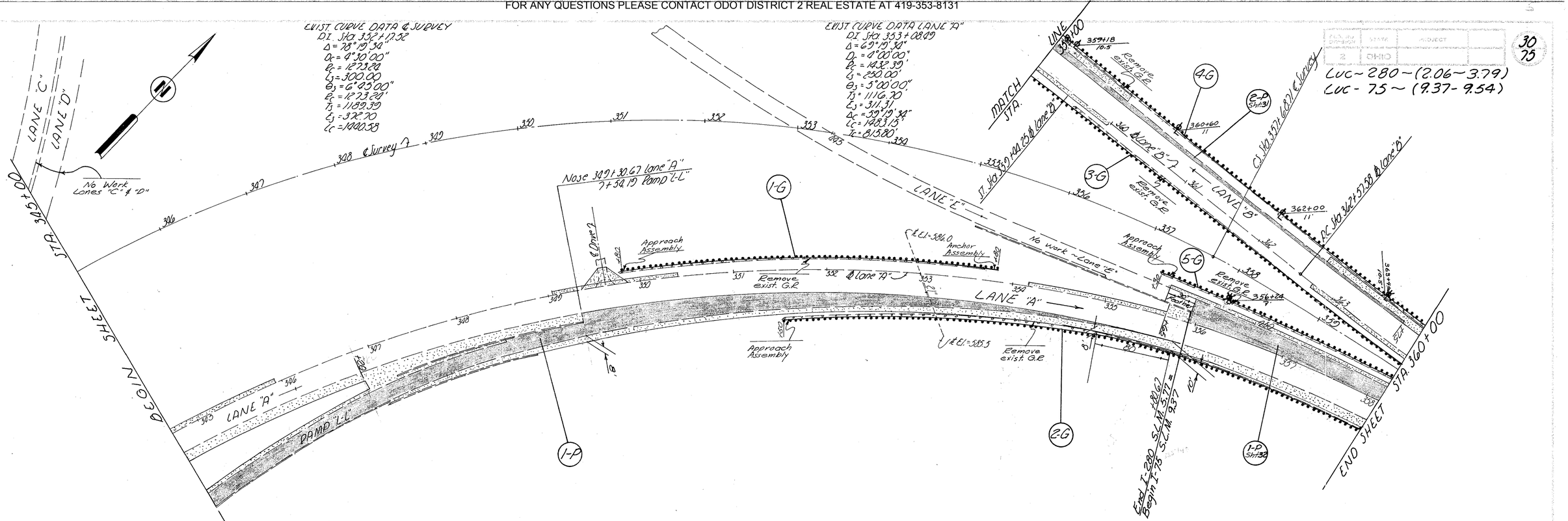
Exist. Curve Data € Survey Exp.
P.I. Sta. 352+17.52
Δ = 78°19'30"
D_c = 4°30'00"
L_s = 300.00'
$θ_s$ = 6°45'00"
R_c = 1273.24'
T_s = 1189.39'
E_s = 372.70'
L_c = 1440.58

Exist. Curve Data Lane "A"
P.I. Sta. 353+08.49
Δ = 69°19'30"
D_c = 4°00'00"
L_s = 250.00'
θ = 5°00'00"
R_c = 1432.39
T_s = 1116.70'
E_s = 311.31
L_c = 1483.15'

BERM & MEDIAN QUANTITIES					
	301	304	310	409	612
	Bit Agg. Base	Agg. Base	Subbase	Seal Coat	Conc. Median
	Cu. Yd.	Cu. Yd.	Cu. Yd.	Sq. Yd.	Sq. Yd.
Ramps	38.22	76.44	76.44	458.67	
Lane B"	213.61	427.22	450.09	2563.33	
Totals to Calc. Sht.	251.83	503.66	526.53	3022.00	

€ 11-20-69
CHK DOD 11/24/69

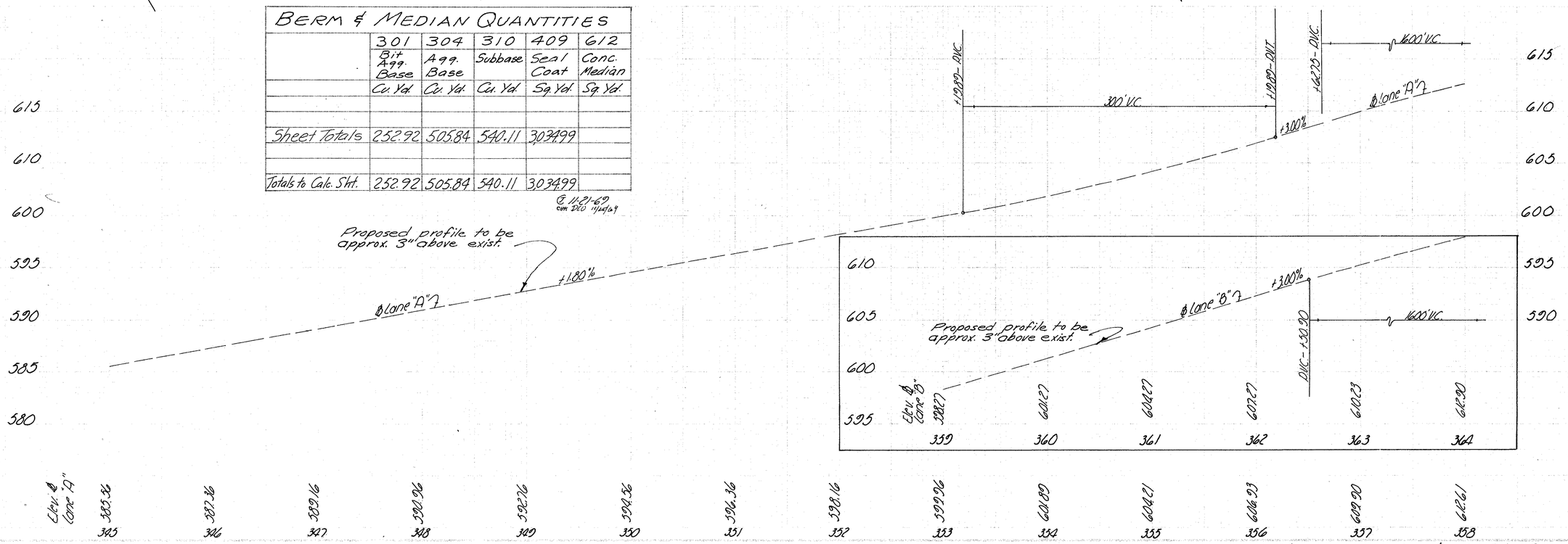
Sta. 335+00 to Sta. 345+00



BERM & MEDIAN QUANTITIES

	301 Bit. Agg. Base	304 Agg. Base	310 Subbase	409 Seal Coat	612 Conc. Median
	Cu. Yd.	Cu. Yd.	Cu. Yd.	Sq. Yd.	Sq. Yd.
Sheet Totals	252.92	505.84	540.11	303499	
Totals to Calc. Sht.	252.92	505.84	540.11	303499	

℄ 11-21-69
cm DEO 11/24/69

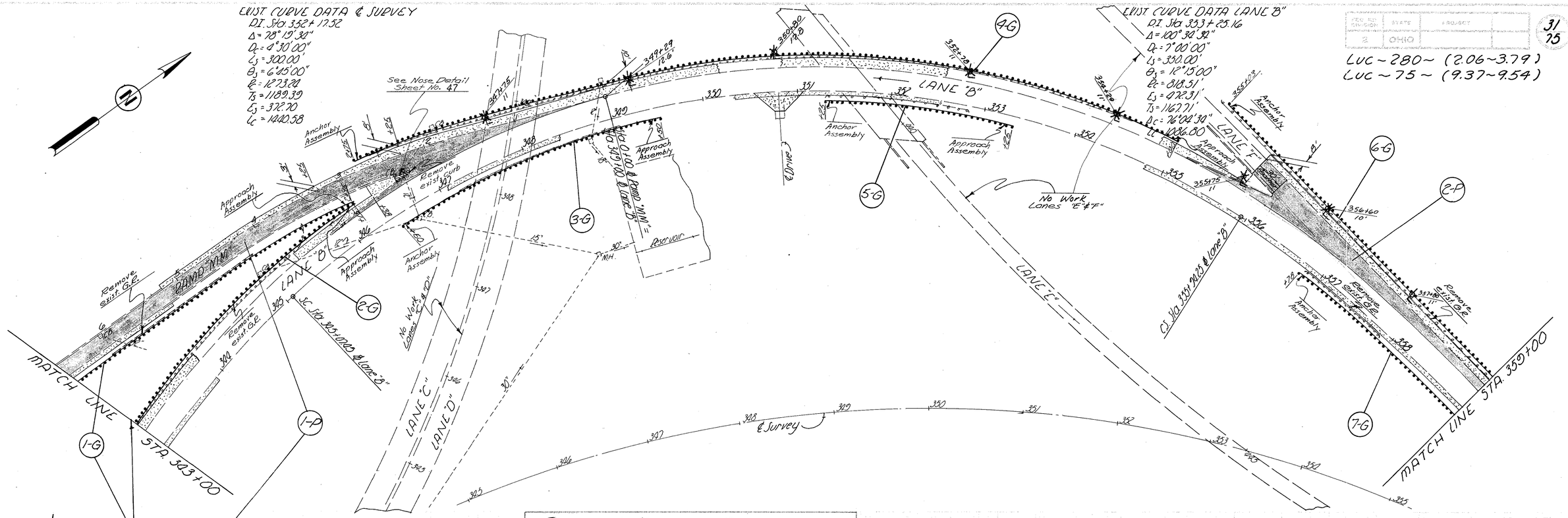


Sta. 345+00 to Sta. 360+00

LUC ~ 280 ~ (2.06~3.79)
LUC ~ 75 ~ (9.37~9.54)

EXIST. CURVE DATA & SURVEY
P.I. Sta. 352+17.52
Δ = 78°19'30"
D_a = 4°30'00"
L_s = 300.00'
θ_s = 6°45'00"
R_c = 1273.24
T_s = 1189.39
L_s = 312.20
L_c = 1010.58

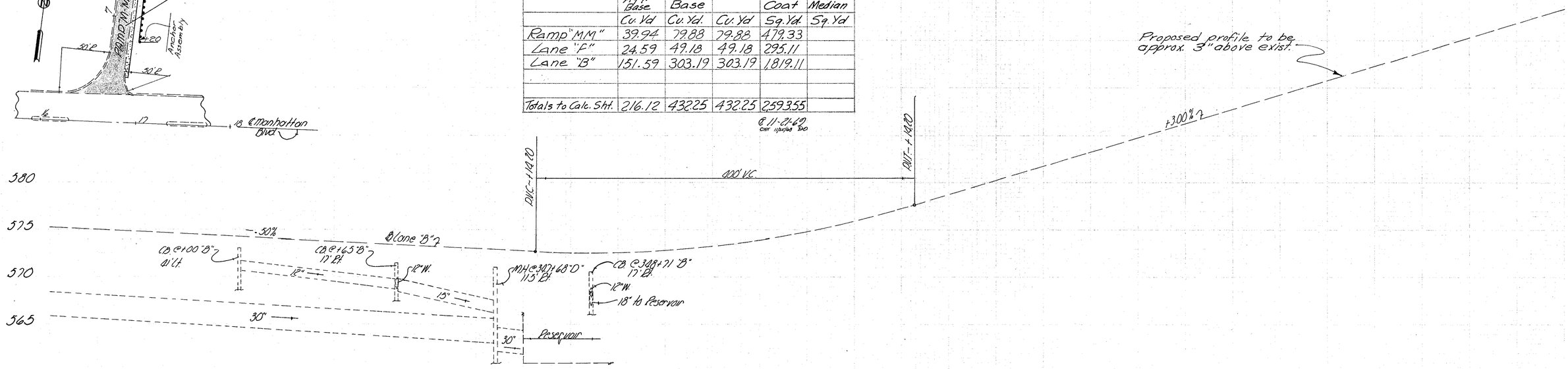
EXIST. CURVE DATA LANE "B"
P.I. Sta. 353+25.16
Δ = 100°34'32"
D_a = 7°00'00"
L_s = 350.00'
θ_s = 10°15'00"
R_c = 818.51'
L_s = 472.31'
T_s = 1162.71'
D_c = 76°04'30"
L_c = 1086.00

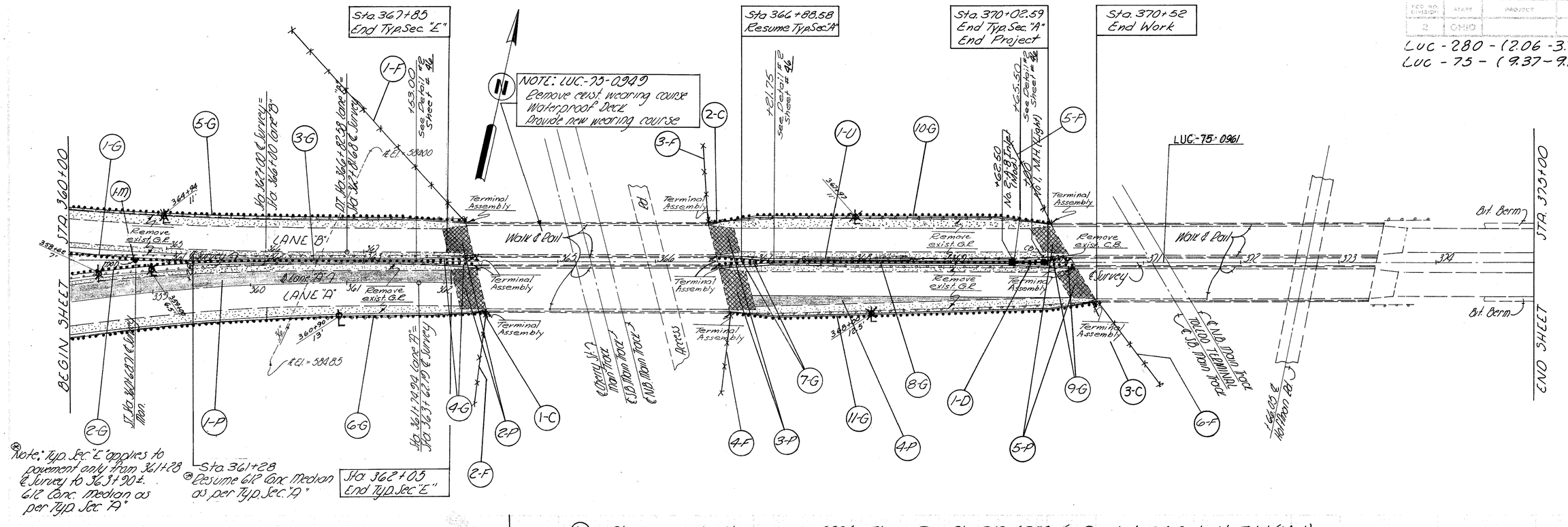


BERM & MEDIAN QUANTITIES

	301 Bit Agg. Base	304 Agg. Base	310 Subbase	409 Seal Coat	612 Conc. Median
	Cu. Yd	Cu. Yd.	Cu. Yd	Sq. Yd.	Sq. Yd
Ramp "MM"	39.94	79.88	79.88	479.33	
Lane "F"	24.59	49.18	49.18	295.11	
Lane "B"	151.59	303.19	303.19	1819.11	
Totals to Calc. Sht.	216.12	432.25	432.25	2593.55	

℄ 11-21-69 Chief Engineer Dec





FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

LUC-280-(2.06-3.79)
LUC-75-(9.37-9.54)

1-U Sta. 366+80 to Sta 369+62 = 282 Lin. Ft.

1-F Sta. 362+25, 235' Lt. to Sta. 364+00, 40' Lt. = 265 Lin. Ft.
2-F Sta. 364+10, 145' Rt. to Sta 364+20, 50' Rt = 95 Lin. Ft.
3-F Sta 366+50, 120' Lt. to Sta. 366+55, 40' Lt = 80 Lin. Ft.
4-F Sta. 366+65, 130' Rt. to Sta 366+75, 50' Rt. = 80 Lin. Ft.
5-F Sta. 369+60, 120' Lt. to Sta 370+04, 40' Lt. = 90 Lin. Ft.
6-F Sta. 371+15, 125' Rt. to Sta. 370+52, 40' Rt. = 110 Lin. Ft.

1-D Sta. 369+62.50, ℄, Const. No. 2-A-8 Shoulder Inlet (Mod.)
Sta. 369+62.50, ℄ to Sta. 370+00, ℄, Lay 37 Lin. Ft., 12" Conduit, Type B
Sta. 370+00, ℄, Remove exist. C.B.
Sta. 370+00, ℄, Const. No. 1, M.H. (Light Casting)

BERM & MEDIAN QUANTITIES

	301	304	310	409	612
	Bit. Agg. Base	Agg. Base	Subbase	Seal Coat	Conc. Median
	Cu. Yd.	Cu. Yd.	Cu. Yd.	Sq. Yd.	Sq. Yd.
Median	77.23	220.43	275.54	926.77	395.80
Lane "A"	68.75	137.50	137.50	825	
Lane "B"	71.67	143.34	145.71	860.06	
Totals to Calc. Sht.	217.65	501.27	558.75	2611.83	395.80

C 11-21-69
CHK DCO 11/25/69