FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

1/4

PREBLE COUNTY
PRE-70-2.47

Type B Concrete Curb (Mod.)

6" Parking Lines

6' Wood Fence

84'

30'

B4

75'

13'

60'

B5

31'

B6

(50 WS-1)

Exist. L.A. R/W

Type B Concrete Curb (Mod.)

Original R/W Line

Exist. L.A. R/W

(52 WS)

FOR INFORMATION REQUIRED, SEE PRE-70-2.30 W.B.

BORING LOCATION PLAN PRE-70-2.83 EB

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

INFORMATION REQUIRED:

1. VISUAL CLASSIFICATION OF SOILS INCLUDING DENSITY OR CONSISTENCY AND MOISTURE CONTENT.
2. STANDARD PENETRATION TEST "BLOW COUNT" NUMBERS.
3. LABORATORY SOIL CLASSIFICATION ON REPRESENTATIVE SAMPLES.
4. SUGGEST 1 BORING TO 40' DEEP AND OTHERS TO 20' DEEP, OR TO REFUSAL.

BORING LOCATION PLAN PRE-70-2.80 WB

F.H.W.A. REGION	STATE	PROJECT	
5	OHIO		

3/4

LOG OF BORING

Date Started 11-9-82 Sampler: Type SS Dia. 1 3/8" Water Elev 1205.6'
Date Completed 11-9-82 Casing: Length Dia

Project Identification: PREBLE PRE - 70 - 2.80 WB SUBSURFACE INVESTIGATION RENOVATION TO THE MOTORIST FACILITIES

Boring No. B-1 Station & Offset TEST LOCATION NO. 1 Surface Elev. 1213.1'

Elev.	Depth	Std. Pen. (N)	Description	ALLOW. BEAR. CAP TSF	Field No.	Lab. Nos. So.	Physical Characteristics % Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.	SHTL Class
1218.1	0														
1215.6	2														
1213.1	4	3/5/10	BROWN CLAYEY SANDY SILT WITH STONE FRAGS.	3.0	21	30757	17	14	23	31	15	18	4	11	A-4a
1210.6	6	4/3/12	BROWN CLAYEY SANDY SILT WITH STONE FRAGS.	3.5	22	30758	17	13	24	30	16	16	3	9	A-4a
1208.1	8	4/6/10	BROWN CLAYEY SANDY SILT WITH STONE FRAGS.	3.0	23	30759	21	11	14	35	19	15	5	11	A-4a
1205.6	10	5/8/15	BROWN AND GRAY CLAYEY SANDY SILT WITH STONE FRAGMENTS	3.5	24	30760	13	10	22	37	18	17	4	9	A-4a
1203.1	12	7/9/14	BROWN CLAYEY SANDY SILT WITH STONE FRAGS.	3.5	25	30761	21	9	17	33	20	20	6	12	A-4a
1200.6	14	4/8/16	BROWN SANDY CLAYEY SILT	3.5	26	30762	9	8	17	37	29	20	6	14	A-4a
1198.1	16	5/10/15	BROWN AND GRAY CLAYEY SANDY SILT WITH STONE FRAGMENTS	3.5	27	30763	12	10	20	35	23	19	6	10	A-4a
1196.6	18	6/8/13	BROWN AND GRAY CLAYEY SANDY SILT WITH STONE FRAGS.	3.0	28	30764	12	8	19	39	22	18	4	11	A-4a
	20		BOTTOM OF BORING												
	22														
	24														
	26														
	28														
	30														
	32														
	34														
	36														

Form TE-153 Particle Sizes: Agg= >2.00mm, Coarse Sand=2.00-0.42mm, Fine Sand=0.42-0.074mm, Silt=0.074-0.005mm, Clay=< 0.005mm

LOG OF BORING

Date Started 11-9-82 Sampler: Type SS Dia. 1 3/8" Water Elev 1205.6'
Date Completed 11-9-82 Casing: Length Dia

Project Identification: PREBLE PRE - 70 - 2.80 WB SUBSURFACE INVESTIGATION RENOVATION TO THE MOTORIST FACILITIES

Boring No. B-2 Station & Offset TEST LOCATION NO. 2 Surface Elev. 1218.1'

Elev	Depth	Std. Pen. (N)	Description	ALLOW BRNG. CAP. TSF	Field No.	Lab. Nos. So.	Physical Characteristics % Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.	SHTL Class
1218.1	0														
1215.6	2														
1213.1	4	3/4/5	BROWN SANDY SILT AND CLAY	1.5	13	30749	0	20	17	30	33	34	16	20	A-6b
		PS	BROWN SILTY CLAY, LOAMY	*	14	30821	0	2	7	44	47	50	25	10	A-6b
1210.6	6	PS	BROWN CLAYEY SANDY SILT	**	14A	30822	6	10	28	32	24	22	6	23	A-4a
	8														
1208.1	10	3/3/6	BROWN CLAYEY SANDY SILT WITH STONE FRAGMENTS	2.0	15	30751	16	13	25	28	18	16	3	11	A-4a
		PS	BROWN CLAYEY SANDY SILT W/ ST. FRAGS	**	16	30823	12	11	25	33	22	22	7	13	A-4a
1205.6	12	PS	BROWN CLAYEY SANDY SILT WITH STONE FRAGMENTS (AVE.)	***	16A	30824	18	12	22	28	20	19	5	13	A-4a
	14	6/13/21	BROWN CLAYEY SANDY SILT WITH ST. FRAGS	3.0	17	30753	12	16	26	27	19	-	-	14	VISUAL
1203.1		PS	BROWN SANDY CLAYEY SILT WITH ST. FRAGS.	*	18	30825	15	13	21	30	21	18	4	10	A-4a
	16	PS	GRAY SILTY SAND WITH ST. FRAGS.	*	18A	30826	13	18	26	33	10	NP	NP	16	A-4a
1200.6		PS	GRAY CLAYEY SANDY SILT	*	18B	30827	4	7	17	49	23	20	4	8	A-4a
	18	11/17/21	BROWN AND GRAY CLAYEY SANDY SILT WITH STONE FRAGMENTS	3.5	19	30755	19	20	22	25	14	15	3	18	A-4a
1198.1	20	PS	BROWN CLAYEY SANDY SILT AND ST. FRAGS.	*	20	30828	31	10	18	20	15	19	6	11	A-4a
1196.5		PS	BROWN CLAYEY SANDY SILT WITH ST. FRAGS. q_u=2.216		20A	30829	11	11	23	33	22	18	4	10	A-4a
	22		BOTTOM OF BORING												
	24														
	26														
	28														
	30														
	32														
	34														
	36														

* NO STRENGTH TEST PERFORMED

** NO STRENGTH TEST PERFORMED (CONSOLIDATION TEST)

*** NO STRENGTH TEST PERFORMED (TRIAXIAL TEST)

Form TE-153 Particle Sizes: Agg= >2.00mm, Coarse Sand=2.00-0.42mm, Fine Sand=0.42-0.074mm, Silt=0.074-0.005mm, Clay=< 0.005mm

LOG OF BORING

Date Started 11-9-82 Sampler: Type SS Dia. 1 3/8" Water Elev 1203.7'
Date Completed 11-9-82 Casing: Length Dia

Project Identification: PREBLE PRE - 70 - 2.80 WB SUBSURFACE INVESTIGATION RENOVATION TO THE MOTORIST FACILITIES

Boring No. B-3 Station & Offset TEST LOCATION NO. 3 Surface Elev. 1217.7'

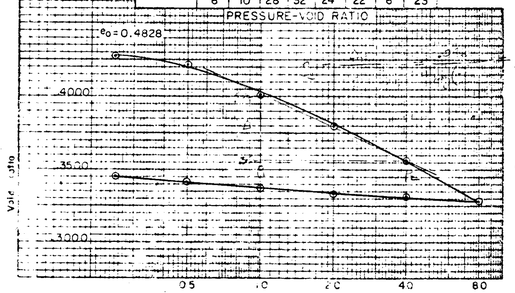
Elev	Depth	Std. Pen. (N)	Description	ALLOW. BRNG. CAP. TSF	Field No.	Lab. Nos. So.	Physical Characteristics % Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.	SHTL Class
1217.7	0														
1215.2	2														
1212.7	4	5/4/7	BROWN CLAYEY SANDY SILT WITH STONE FRAGS.	2.5	1	30737	15	12	24	31	18	19	5	11	A-4a
1210.2	6	4/5/8	BROWN CLAYEY SANDY SILT WITH STONE FRAGS.	2.5	2	30738	13	11	24	29	23	18	4	9	A-4a
1207.7	8	4/4/7	BROWN CLAYEY SANDY SILT WITH STONE FRAGS.	2.0	3	30739	13	12	22	33	20	16	2	11	A-4a
1205.2	10	4/5/10	BROWN AND GRAY CLAYEY SANDY SILT WITH STONE FRAGMENTS	3.0	4	30740	26	10	18	30	10	16	3	9	A-4a
1202.7	12	4/7/10	BROWN CLAYEY SANDY SILT WITH STONE FRAGMENTS	3.0	5	30741	14	10	21	33	22	19	5	11	A-4a
1200.2	14	7/9/16	BROWN CLAYEY SANDY SILT WITH STONE FRAGS.	3.5	6	30742	12	10	21	33	24	19	6	9	A-4a
1197.7	16	6/10/16	BROWN CLAYEY SANDY SILT WITH STONE FRAGS.	3.5	7	30743	17	10	19	29	25	19	6	10	A-4a
	18	5/9/16	BROWN AND GRAY CLAYEY SANDY SILT WITH STONE FRAGMENTS	3.5	8	30744	17	8	19	33	23	19	6	12	A-4a
1192.7	20														
	22	5/14/33	BROWN STONE FRAGMENTS AND SAND	4.5	9	30745	29	18	24	19	10	19	5	10	A-2-4
1187.7	24														
	26	5/10/16	BROWN CLAYEY SANDY SILT WITH STONE FRAGMENTS	4.0	10	30746	16	9	18	33	24	18	5	12	A-4a
1182.7	28														
	30	12/19/31	BROWN AND GRAY CLAYEY SANDY SILT WITH STONE FRAGMENTS	5.0	11	30747	12	9	19	36	24	18	5	10	A-4a
1177.7	32														
1176.2	34	14/25/38	BROWN AND GRAY CLAYEY SANDY SILT WITH STONE FRAGMENTS	5.0	12	30748	15	8	19	33	25	18	6	9	A-4a
	36		BOTTOM OF BORING												
	38														
	40														
	42														
	44														
	46														

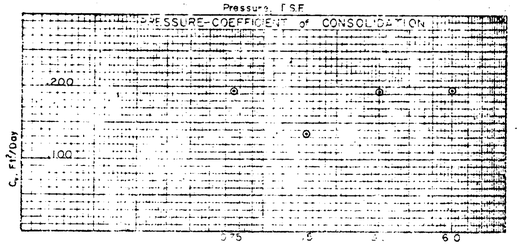
Form TE-153 Particle Sizes: Agg= >2.00mm, Coarse Sand=2.00-0.42mm, Fine Sand=0.42-0.074mm, Silt=0.074-0.005mm, Clay=< 0.005mm

Station & Offset B-2 Project Identification PREBLE CO.
Field No. 14A Lab. No. So. 30822 PRE-70-2.80 (W.B.)
Depth 5.6 — 5.7 REST AREA

Specimen Data
Diameter 2.507 in. Wet Density 137.48 LB./CU.FT.
Initial Thickness 0.7443 in. Dry Density 111.70 LB./CU.FT.
Initial Dial Reading 0.5210 Specific Gravity 2.67
Visual Description BROWN CLAYEY SANDY SILT
Remarks PENETROMETER 0.40 TSF TORVANE 0.24 TSF

Physical Characteristics							
% Agg	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.
6	10	28	32	24	22	6	23

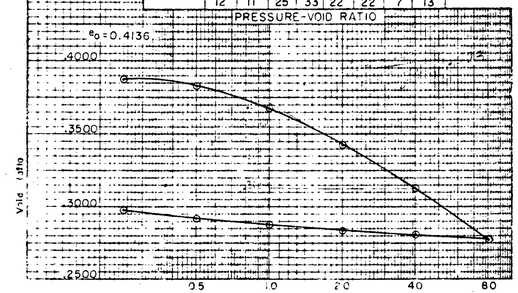


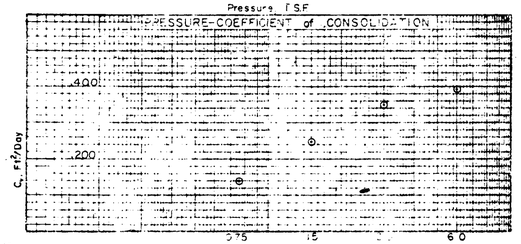


Station & Offset B-2 Project Identification PREBLE CO.
Field No. 16 Lab. No. So. 30823 PRE-70-2.80 (W.B.)
Depth 10.3' — 10.4' REST AREA

Specimen Data
Diameter 2.506 in. Wet Density 133.43 LB./CU.FT.
Initial Thickness 0.7546 in. Dry Density 118.04 LB./CU.FT.
Initial Dial Reading 0.1935 Specific Gravity 2.69
Visual Description BROWN CLAYEY SANDY SILT W/ST. FRAGS.
Remarks PENETROMETER 1.25 TSF TORVANE 0.62 TSF

Physical Characteristics							
% Agg	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	W.C.
12	11	25	33	22	22	7	13





State of Ohio
Department of Transportation
Division of Highways
Testing Laboratory

BORING PROFILES

F.H.W.A. REGION	STATE	PROJECT		
5	OHIO			

LOG OF BORING

Date Started 11-10-82 Sampler: Type SS Dia 1 3/8" Water Elev ____
Date Completed 11-10-82 Casing: Length ____ Dia ____

Project Identification PREBLE
PRE - 70 - 2.83 EB
SUBSURFACE INVESTIGATION
RENOVATION TO THE MOTORIST FACILITIES

Boring No. B-4 Station & Offset TEST LOCATION NO. 4 Surface Elev. 1214.0'

Elev	Depth	Std. Pen. (N)	Description	ALLOW. BRNG. CAP. TSF	Field No	Lab Nos. So	Physical Characteristics % Agg	% C.S.	% F.S.	% Silt	% Clay	L.L.	PI	W.C.	SHTL Class
1214.0	0														
	2														
1211.5															
	4	4/4/6	BROWN SANDY CLAYEY SILT WITH STONE FRAGS.	1.5	1	30765	22	13	23	28	14	18	4	13	A-4a
1208.0		P.S.	BROWN SANDY SILT WITH CLAY AND ST. FRAGS.	*	2	30815	14	11	25	28	22	18	4	11	A-4a
	6	PS	BROWN SANDY SILT WITH CLAY AND ST. FRAGS.	qu=2.05	2A	30816	14	10	20	31	25	19	4	11	A-4a
1206.5															
	8														
	10	3/5/7	BROWN SANDY CLAYEY SILT WITH STONE FRAGS.	1.5	3	30767	17	13	24	29	17	NP	NP	12	A-4a
1204.0															
	12	PS	BROWN SANDY SILT WITH CLAY AND GRAVEL	qu = 1.63	4	30817	11	12	23	33	21	19	5	11	A-4a
1201.5															
	14	11/19/23	BROWN AND GRAY SANDY CLAYEY SILT WITH STONE FRAGMENTS	5.0	5	30769	19	9	19	31	22	18	5	10	A-4a
1199.0	16	PS	BROWN SANDY SILT WITH CLAY AND GRAVEL	qu = 1.69	6	30818	11	10	21	33	25	20	6	10	A-4a
		PS	GRAY SANDY SILT WITH CLAY AND GRAVEL	qu = 4.17	6A	30819	15	9	20	31	25	18	5	10	A-4a
1196.5	18														
		4/10/12	GRAY SANDY CLAYEY SILT WITH STONE FRAGS.	3.5	7	30771	14	10	20	34	22	17	4	10	A-4a
1194.0	20														
1192.0	22	PS	GRAY SANDY SILT WITH CLAY AND ST. FRAGS.	qu = 5.16	8	30620	16	8	18	33	25	19	5	10	A-4a
			BOTTOM OF BORING												
	24														
	26														
	28														
	30		* NO STRENGTH TEST PERFORMED. (CONSOLIDATION TEST)												
	32														
	34														
	36														

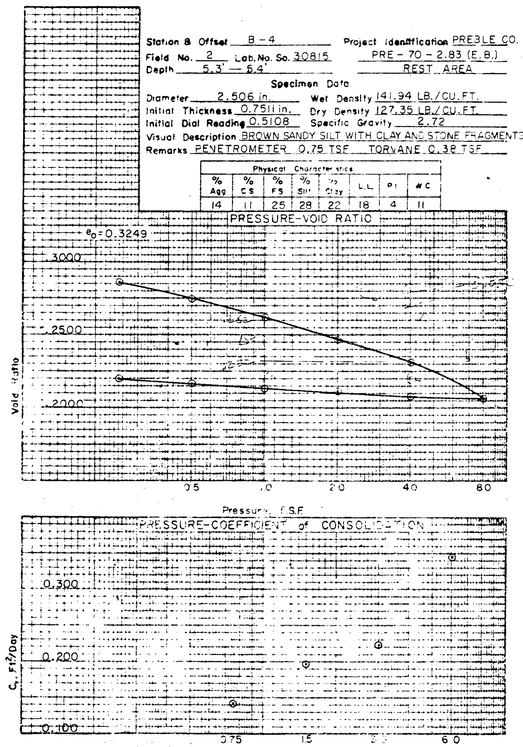
Form TE-153 Particle Sizes: Agg= >2.00mm, Coarse Sand=2.00-0.42mm, Fine Sand=0.42-0.074mm, Silt=0.074-0.005mm, Clay=< 0.005mm

Station & Offset B - 4 Project Identification PREBLE CO.
Field No. 2 Lab. No. So. 30815 PRE - 70 - 2.83 (E.B.)
Depth 5.3' — 6.4' REST AREA

Specimen Data

Diameter 2.506 in. Wet Density 141.94 LB./CU.FT.
Initial Thickness 0.7511 in. Dry Density 127.35 LB./CU.FT.
Initial Dial Reading 0.5108 Specific Gravity 2.72
Visual Description BROWN SANDY SILT WITH CLAY AND STONE FRAGMENTS
Remarks PENETROMETER 0.75 TSF TORVANE 0.38 TSF

% Agg	% C.S	% F.S	% Silt	% Clay	L.L.	PI	W.C.
14	11	25	28	22	18	4	11



LOG OF BORING

Date Started 11-17-82 Sampler: Type SS Dia 1 3/8" Water Elev 1197.7 & 1172.7'
Date Completed 11-17-82 Casing: Length ____ Dia ____

Project Identification: PREBLE
PRE - 70 - 2.83 EB
SUBSURFACE INVESTIGATION
RENOVATION TO THE MOTORIST FACILITIES

Boring No. B-5 Station & Offset TEST LOCATION NO. 5 Surface Elev. 1212.7'

Elev	Depth	Std. Pen. (N)	Description	ALLOW BRNG CAP TSF	Field No	Lab Nos. So	Physical Characteristics % Agg	% C.S.	% F.S.	% Silt	% Clay	L.L.	PI	W.C.	SHTL Class
1212.7	0														
	2														
1210.2															
	4	7/9/12	BROWN CLAYEY SANDY SILT AND ST. FRAG.S	3.5	1	30915	25	14	21	24	16	19	5	8	A-4a
1207.7															
	6	7/9/12	BROWN CLAYEY SANDY SILT W/ ST. FRAG.S	3.5	2	30916	15	15	25	28	17	17	3	10	A-4a
1205.2															
	8	3/6/6	BROWN CLAYEY SANDY SILT W/ ST. FRAG.S	2.5	3	30917	24	14	22	25	15	17	4	9	A-4a
1202.7	10														
		7/8/11	GRAY SANDY CLAYEY SILT W/ ST. FRAG.S	3.5	4	30918	16	9	17	31	27	20	7	6	A-4a
1200.2	12														
	14	9/18/32	BROWN AND GRAY CLAYEY SANDY SILT W/ ST. FRAG.S	5.0	5	30919	17	10	21	34	18	16	3	9	A-4a
1197.7	16														
		12/16/18	BROWN SILTY SAND AND GRAVEL	4.0	6	30920	29	16	29	19	7	NP	NP	13	A-2-4
1195.2	18														
		11/14/20	BROWN CLAYEY SANDY SILT W/ ST. FRAG.S	3.5	7	30921	18	10	21	29	22	17	4	11	A-4a
1192.7	20														
	22	6/9/20	BROWN CLAYEY SANDY SILT W/ ST. FRAG.S	4.5	8	30922	20	10	21	28	21	17	6	10	A-4a
	24														
1187.7															
	26	14/19/20	GRAY CLAYEY SANDY SILT AND ST. FRAG.S	5.0	9	30923	33	9	16	27	15	16	3	10	A-4a
	28														
1182.7	30														
	32	14/14/21	GRAY SILTY SAND AND STONE FRAGMENTS	4.5	10	30924	37	13	18	21	11	15	3	10	A-2-4
1177.7	34														
	36	19/23/29	GRAY CLAYEY SANDY SILT WITH STONE FRAG.S	5.0	11	30925	19	10	19	32	20	17	4	8	A-4a
	38														
1172.7	40														
1171.2	42	8/9/15	GRAY CLAYEY SANDY SILT WITH STONE FRAG.S	4.0	12	30926	20	10	22	29	19	16	3	11	A-4a
			BOTTOM OF BORING												
	44														
	46														

Form TE-153 Particle Sizes: Agg= >2.00mm, Coarse Sand=2.00-0.42mm, Fine Sand=0.42-0.074mm, Silt=0.074-0.005mm, Clay=< 0.005mm

LOG OF BORING

Date Started 11-9-82 Sampler: Type SS Dia 1 3/8" Water Elev ____
Date Completed 11-9-82 Casing: Length ____ Dia ____

Project Identification: PREBLE
PRE - 70 - 2.83 EB
SUBSURFACE INVESTIGATION
RENOVATION TO THE MOTORIST FACILITIES

Boring No. B-6 Station & Offset TEST LOCATION NO. 6 Surface Elev. 1210.6'

Elev.	Depth	Std. Pen. (N)	Description	ALLOW BRNG CAP TSF	Field No	Lab Nos. So	Physical Characteristics % Agg	% C.S.	% F.S.	% Silt	% Clay	L.L.	PI	W.C.	SHTL Class
1210.6	0														
	2														
1208.1															
	4	5/7/8	BROWN CLAYEY SANDY SILT W/ ST FRAG.S	3.0	13	30927	13	12	23	28	24	23	9	21	A-4a
1205.6	6														
		6/8/10	BROWN SANDY SILT AND STONE FRAGMENTS	2.5	14	30928	34	10	18	25	13	NP	NP	11	A-4a
1203.1	8														
	10	6/7/10	BROWN CLAYEY SANDY SILT W/ STONE FRAG.S	2.5	15	30929	19	11	19	30	21	NP	NP	13	A-4a
1200.6															
	12	8/12/13	BROWN CLAYEY SANDY SILT W/ STONE FRAG.S	3.0	16	30930	24	11	20	26	19	NP	NP	10	A-4a
1198.1	14														
		8/8/11	BROWN CLAYEY SANDY SILT AND ST FRAG.S	3.0	17	30931	33	9	17	25	16	NP	NP	9	A-4a
1195.6	16														
		5/7/10	BROWN AND GRAY CLAYEY SANDY SILT W/ ST FRAG.S	2.5	18	30932	13	12	19	31	25	19	5	11	A-4a
1193.1	18														
		7/10/13	BROWN AND GRAY CLAYEY SANDY SILT W/ ST FRAG.S	3.0	19	30933	20	9	18	31	22	NP	NP	10	A-4a
1190.6	20														
1189.1		5/9/14	BROWN AND GRAY CLAYEY SANDY SILT & ST FRAG.S	3.0	20	30934	25	8	17	29	21	NP	NP	10	A-4a
	22		BOTTOM OF BORING												
	24														
	26														
	28														
	30														
	32														
	34														
	36														

Form TE-153 Particle Sizes: Agg= >2.00mm, Coarse Sand=2.00-0.42mm, Fine Sand=0.42-0.074mm, Silt=0.074-0.005mm, Clay=< 0.005mm

State of Ohio
Department of Transportation
Division of Highways
Testing Laboratory

BORING PROFILES

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
PRE-70-2.80

301
BLACK
1-68

PREBLE COUNTY	OHIO
PRE-70-2.80	FHWA REGION 5
REST AREA	
IR-70-1(37)2	FEDERAL PROJECT

1/68

IR-70-1(37)2

SAFETY REST AREA

PREBLE COUNTY
JACKSON TWP. & JEFFERSON TWP.

CONVENTIONAL SIGNS

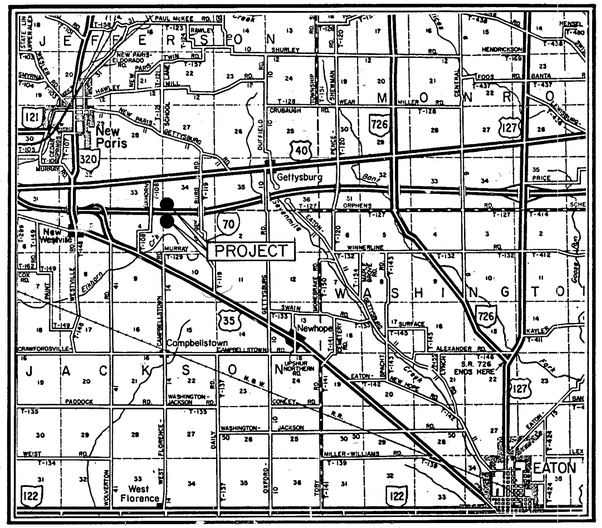
County Line
Township Line
Section Line
Corporation Line or
Fence Line (existing) (proposed)
Center Line 352 353
Trees, Stumps, (to be removed)
Utility Poles: Telephone, Power, Light.

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 or
Guardrail (existing) (proposed)

INDEX OF SHEETS

LINE DATA

NET LENGTH OF PROJECT = 0.00 LIN. FT. OR 0.00 MILE
BEGIN WORK STA. 133+00
END WORK STA. 174+25
TOTAL NET LENGTH OF WORK = 4125 FT. OR 0.781 MI.



LOCATION MAP

SCALE IN MILES
0 1 2 3 4 5 6

Portion to be improved
State & Federal Routes
Other Roads

SCALES

Plan 0' 10' 20' 40'
Profile: Horizontal 0' 10' 20' 40', Vertical 0' 5' 10'
Cross Section: Horizontal N/A, Vertical N/A

LIMITED ACCESS

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

1983 SPECIFICATIONS

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

I hereby approve these plans and declare that the making of this improvement will **not require the closing of the highway**, except for the affected Rest Areas, and that provisions for maintenance and safety of traffic will be set forth in these plans and estimate.

Approved J. H. Wallace
Date 10-16-84 District Deputy Director of Transportation

SUPPLEMENTAL SPECIFICATIONS			
SPECIAL: STANDARD SPECIFICATIONS FOR MOTORIST SERVICES BUILDING AND STORAGE UNIT. 9-21-84			
814	1-1-69	803	5-27-83
939	6-28-82	839	11-25-70
824	10-8-82		

Approved Wayne H. Kauble
Date 12-4-85 Chief Engineer, Planning and Design

Approved Warren T. Smith
Date 12-5-85 Director, Department of Transportation

SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS											
						LA-1	6-1-79	TC-41.10	12-23-81		
BP-6	6-1-65		HL-1	9-6-73		MH-1	6-12-75	TC-42.10	8-19-77		
BP-7	12-6-76		HL-2	7-27-73		MH-3	6-12-75	TC-51.10	3-30-79		
BP-12	7-7-81		HL-3	7-27-73		MH-5	6-12-75	TC-51.11	4-3-79		
			HL-8	1-21-76		MC-4	7-26-76				
			HL-9	3-22-77							
CB-2-2A & B	5-1-79		HL-10	6-1-79		HW-4A	4-1-80				
			HL-15	1-21-76		HW-4B	4-1-80				
			HL-16	4-6-73							
			LA-10	6-1-79							
F-1	11-10-83		LA-14	12-22-82							
F-2	5-1-76		LA-2	6-1-79		MC-2	7-7-81				
			LA-13	2-2-81							

Rev 4-15-85

Plan Prepared By:

WOOLPERT CONSULTANTS
ENGINEERING, PLANNING, PHOTOGRAMMETRY AND LANDSCAPE ARCHITECTURE
2324 STANLEY AVENUE/DAYTON, OHIO 45404

STATE OF OHIO — JONATHAN CARL ESSLINGER 47226 REGISTERED PROFESSIONAL ENGINEER — SEAL

Project: PRE-70-2.80
Date of Letting ____ 19__, Contract No. ____

LD0300 Rev. 11-1-78

DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR — DATE

GENERAL NOTES

BENCH MARK AND BASE LINE

A BENCH MARK AND BASE LINE WILL BE VERIFIED BY ODOT PERSONNEL.

FIELD OFFICE

THE CONTRACTOR SHALL PROVIDE A SUITABLE FIELD OFFICE HAVING A MINIMUM OF 400 SQUARE FEET OF FLOOR SPACE. PAYMENT SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 619, FIELD OFFICE

STORAGE OF MATERIALS AND EQUIPMENT

ALL MATERIALS, EQUIPMENT AND VEHICLES SHALL BE TYPICALLY STORED WITHIN THE CONFINES OF THE PARKING LOTS AT THE DIRECTION OF THE ENGINEER.

UNDERGROUND UTILITIES

THE LOCATIONS OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS OF THE UTILITY AS REQUIRED BY SECTION 153.64 ORC.

UTILITIES NOTIFICATION

AT LEAST TWO WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN AN AREA WHICH MAY INVOLVE UNDERGROUND UTILITY FACILITIES, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, THE REGISTERED UTILITY PROTECTION SERVICE AND THE OWNERS OF EACH UNDERGROUND UTILITY FACILITY SHOWN IN THE PLANS.

THE OWNER OF THE UNDERGROUND UTILITY FACILITY SHALL, WITHIN FORTY-EIGHT HOURS, EXCLUDING SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS, AFTER NOTICE IS RECEIVED, STAKE, MARK OR OTHERWISE DESIGNATE THE LOCATION OF THE UNDERGROUND UTILITY FACILITIES IN THE CONSTRUCTION AREA IN SUCH MANNER AS TO INDICATE THEIR COURSE TOGETHER WITH THE APPROXIMATE DEPTH AT WHICH THEY WERE INSTALLED. THE MARKING OR LOCATING SHALL BE COORDINATED TO STAY APPROXIMATELY TWO DAYS AHEAD OF THE PLANNED CONSTRUCTION.

ELECTRIC

DAYTON POWER & LIGHT CO.
136 WEST LEXINGTON ROAD
P.O. BOX 368
EATON, OHIO 45320-0368
513/456-4123
MR. DUANE EHLERS

TELEPHONE

UNITED TELEPHONE COMPANY OF OHIO
P.O. BOX 3555
MANSFIELD, OHIO 44907
1-800-472-5624
MR. DAVID ANGLE

WATER, STORM AND SANITARY SEWER

OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT 8
P.O. BOX 272
LEBANON, OHIO 45036-0272
513/932-3030
MR. JOSEPH ORTH

ELECTRIC

OHIO DEPARTMENT OF TRANSPORTATION
DISTRICT 8
P.O. BOX 272
LEBANON, OHIO 45036-0272
513/932-3030
MR. JOSEPH ORTH

ITEM SPECIAL - SNOW FENCE - TREE PROTECTION

SNOW FENCE SHALL CONSIST OF WOOD PICKETS 1/2" X 1-1/2" X 4'-0" NOMINAL SIZE, PAINTED RED AND WOVEN WITH FIVE (5) DOUBLE STRANDS OF 12-GAUGE STEEL WIRE, SPACED APPROXIMATELY 2" APART. THE FENCE SHALL BE SUPPORTED BY STEEL OR WOOD POSTS OF ADEQUATE SIZE AND SPACING. USED FENCE AND POSTS IN GOOD CONDITION MAY BE USED AS APPROVED BY THE ENGINEER.

PAYMENT WILL BE AT THE CONTRACT UNIT PRICE PER LINEAR FOOT OF SNOW FENCE FURNISHED, ERECTED AND SUBSEQUENTLY REMOVED INCLUDING ALL LABOR, EQUIPMENT, AND INCIDENTALS NECESSARY TO PERFORM THE WORK.

ITEM 608 - 4" CONCRETE WALKS, AS PER PLAN

SUBGRADE UNDER 4" CONCRETE WALKS SHALL BE COMPACTED TO A DEPTH OF 4 INCHES AS DESCRIBED IN 203.13. EXCAVATION FOR 4 INCHES OF SUBGRADE COMPACTION SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 203-"EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION". EMBANKMENT FOR WALK AREAS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 203-"EMBANKMENT".

7" PLAIN PORTLAND CEMENT CONCRETE PAVEMENT, AS PER PLAN

SUBGRADE UNDER SERVICE DRIVES AND CURB RAMPS SHALL BE COMPACTED TO A DEPTH OF SIX (6) INCHES AS DESCRIBED IN 203. JOINTS SHALL BE PLACED AT MAXIMUM 10-FOOT INTERVALS AND CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWING BP-6. THE COST OF JOINTS, GRADING, EXCAVATION AND COMPACTION SHALL BE INCLUDED IN ITEM 452-"7" PLAIN PORTLAND CEMENT CONCRETE PAVEMENT, AS PER PLAN".

STANDARD NO. 3 MANHOLE WITH JOINTS AS PER 706.11 MODIFIED AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF STANDARD DRAWING MH-3, THE MANHOLES SHALL BE PROVIDED WITH SOLID SELF-SEALING WATERTIGHT COVERS EQUAL TO NEENAH NF 38062 OR NF 38063, OR APPROVED EQUAL. *PRECAST GRADE RINGS SHALL BE FURNISHED IN LIEU OF BRICKS IF REQUIRED.*

CONDUITS SHALL BE JOINTED TO THE MANHOLE WITH A GASKETED FLEXIBLE WATERTIGHT CONNECTION OR A WATERTIGHT RESILIENT CONNECTOR CONFORMING TO ASTM 443.

THE COST OF ALL MATERIALS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 604 "MANHOLE, STANDARD NO. 3 WITH JOINTS AS PER 706.11 MODIFIED AS PER PLAN".

ITEM 607 - GATE, TYPE CL, MODIFIED AS PER PLAN

THE GATE SHOWN ON STANDARD DRAWING F-1 SHALL BE MODIFIED BY INCREASING THE FENCE FABRIC HEIGHT TO 6'-0". THE GATE OPENING IS TO BE 12'-0" IN WIDTH AND THE GATE SHALL BE A DOUBLE SWING GATE.

ITEM 607 - FENCE, TYPE CL, MODIFIED AS PER PLAN

THE FENCE FABRIC SHALL BE 6'-0" HIGH IN LIEU OF THAT HEIGHT WHICH IS SHOWN ON STANDARD DRAWING F-1. THE COST OF ALL MATERIALS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 607 "FENCE, TYPE CL, MODIFIED AS PER PLAN".

TREE PROTECTION

NO WORK WILL BE PERMITTED WHERE TREES, SHRUBS, OR UTILITIES ARE PRESENT WITHIN THE WORK LIMITS OF THE REST AREA PROJECT PRIOR TO STAKING BY THE GENERAL CONTRACTOR OF THE LIMITS OF ALL REST AREA BUILDINGS, SEWER LINES, WATER LINES, SERVICE DRIVES, SIDEWALKS, GRADING WORK AND EXISTING AND PROPOSED UTILITY LINES.

THE METHOD FOR MARKING TREES AND SHRUBS TO BE SALVAGED, PROTECTED, OR REMOVED WILL BE ESTABLISHED BY THE ENGINEER, DISTRICT LANDSCAPE ARCHITECT OR HORTICULTURIST AND THE GENERAL CONTRACTOR PRIOR TO WORK AROUND ANY EXISTING TREES, SHRUBS OR UTILITY LINES.

TREE AND SHRUB PROTECTION USING SNOW FENCE SHALL BE PROVIDED BY THE GENERAL CONTRACTOR AS INDICATED ON THE PLAN AND AS DIRECTED BY THE ENGINEER. TREE ROOT AREAS EQUAL TO THE BRANCH SPREAD SHALL BE PROTECTED AS PER STANDARD DRAWING LA-1.

ONLY PNEUMATIC TIRED EQUIPMENT SHALL BE USED WITHIN THE REST AREAS OUTSIDE THE PARKING LOTS. CARE SHALL BE TAKEN BY THE VARIOUS CONTRACTORS NOT TO OPERATE EQUIPMENT OR OTHER VEHICLES WHEN THE GROUND IS WET OR SOFT IN ORDER TO AVOID DEEP RUTTING, SOIL COMPACTION AND OTHER DESTRUCTION OF TREE ROOT SYSTEMS.

TREES TO BE SALVAGED THAT ARE DAMAGED AT ANY TIME DURING THE CONTRACT SHALL BE REPAIRED OR REPLACED (AT THE CONTRACTOR'S EXPENSE) AS DETERMINED BY THE ENGINEER AFTER CONSULTATION WITH THE DISTRICT LANDSCAPE ARCHITECT OR HORTICULTURIST. DAMAGED TREES THAT CAN BE REPAIRED SHALL BE PRUNED AND THE DAMAGE REPAIRED WITH PAINT OR WOUND DRESSING AS PER 663.14. REPLACEMENT SHALL BE IN QUANTITY AND QUALITY, SUFFICIENT TO COMPENSATE FOR SIZES OF TREES LOST. THE WORK SHALL BE COMPLETED AS PER 665 WITH TREES OF THE SIZE AND VARIETY, AS DIRECTED BY THE ENGINEER IN CONSULTATION WITH THE DISTRICT LANDSCAPE ARCHITECT OR HORTICULTURIST.

ITEM SPECIAL - PICNIC TABLE AND SLAB

DETAIL PLACEMENT OF PICNIC TABLES AND SLABS SHALL BE AS DIRECTED BY THE ENGINEER IN CONSULTATION WITH THE DISTRICT LANDSCAPE ARCHITECT. COST FOR EACH PICNIC TABLE AND SLAB SHALL BE INCLUDED IN ITEM SPECIAL - "PICNIC TABLE AND SLAB" AND SHALL BE AS PER STANDARD DRAWING LA-13.

ITEM SPECIAL - PICNIC TABLE

WHERE A PICNIC TABLE SLAB IS INDICATED TO REMAIN, AND IN THE EXISTING SHELTER HOUSE, THE CONTRACTOR SHALL REPLACE THE EXISTING TABLE WITH A PRE-CAST CONCRETE TABLE CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWING LA-13. COST FOR EACH PRECAST CONCRETE TABLE SHALL BE INCLUDED IN ITEM SPECIAL - "PICNIC TABLE".

REMOVAL OF TREES OR STUMPS

ALL TREES AND STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE CONSTRUCTION LIMITS OF THIS PROJECT SHALL BE REMOVED UNDER THE LUMP SUM PRICE BID FOR ITEM 201, "CLEARING AND GRUBBING", EXCEPT THAT THOSE TREES FOR WHICH PROTECTION AND PRESERVATION IS INDICATED BY THE ENGINEER IN CONSULTATION WITH THE DISTRICT LANDSCAPE ARCHITECT OR HORTICULTURIST. THE FOLLOWING IS AN APPROXIMATE ESTIMATE OF THE NUMBER OF TREES AND STUMPS TO BE REMOVED.

SIZES	18"	30"	48"	60"
NO. TREES	36			
NO. STUMPS	1			

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

CLOSURE OF REST AREAS TO THE PUBLIC

REST AREAS SHALL BE CLOSED TO THE TRAVELING PUBLIC FOR THE TOTAL TIME PERIOD OF CONSTRUCTION.

ITEM SPECIAL - WASTE RECEPTACLE SLEEVE

WASTE RECEPTACLE SLEEVES SHALL CONSIST OF A PRECAST CONCRETE SLEEVE CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWING LA-14. COST FOR EACH WASTE RECEPTACLE SLEEVE SHALL BE INCLUDED IN ITEM SPECIAL - "WASTE RECEPTACLE SLEEVE".

ITEM SPECIAL - WASTE RECEPTACLE SLAB

WASTE RECEPTACLE SLABS SHALL CONSIST OF A CONCRETE SLAB CONSTRUCTED IN ACCORDANCE WITH STANDARD DRAWING LA-14. COST FOR EACH WASTE RECEPTACLE SLAB SHALL BE INCLUDED IN ITEM SPECIAL - "WASTE RECEPTABLE SLAB".

~~ITEM 603 - CAST IRON SOIL PIPE WITH~~

~~THE REQUIREMENTS OF ITEM 603 SHALL GOVERN THE FURNISHING AND INSTALLATION OF THIS PIPE EXCEPT AS HEREIN MODIFIED. THE CONSTRUCTION REQUIREMENTS OF TYPE "C" CONDUIT SHALL GOVERN. IN LIEU OF THE REQUIREMENTS OF 603.02, THE MATERIAL FURNISHED FOR THIS ITEM SHALL BE CAST IRON PIPE [illegible] WITH NEOPRENE JOINT AS PER ASTM [illegible]~~

TOPSOIL TESTING

TOPSOIL FAILING CURRENT TEST STANDARDS MAY BE ALTERED, UPON APPROVAL OF THE ENGINEER, BY ADDING APPROVED CONDITIONERS TO CORRECT THE DEFICIENCIES. TOPSOIL SHALL BE FREE OF JOHNSON GRASS AND CONFORM TO ITEM 653 AS DETERMINED BY THE ENGINEER.

ITEM SPECIAL - CLEANING WELL

BEFORE PUMPS ARE INSTALLED AT THE WELLS, WELL DRILLING EQUIPMENT SHALL BE SET UP OVER THE WELL. WATER IN THE WELLS SHALL BE SURGED AND THE WELLS CLEANED BY FAST BAILING, OR BY USE OF A SWAB, OR OTHER METHOD APPROVED BY THE ENGINEER.

AFTER COMPLETION OF A CLEANING, THE TOTAL DEPTH OF EACH SHALL BE NOT LESS THAN 95 FEET FOR THE WELL ON THE LEFT (WESTBOUND SIDE) AND 90 FEET FOR THE WELL ON THE RIGHT (EASTBOUND SIDE).

WELLS ARE LOCATED AS FOLLOWS:

EASTBOUND: STA. 52+64, 123' RT
WESTBOUND: STA. 54+76, 109' LT

THE FOLLOWING DATA SHALL BE FURNISHED TO THE ENGINEER FOR EACH WELL:

FIELD RATE (BAILING OR PUMPING) IN GALLONS PER MINUTE
DEPTH OF STATIC WATER LEVEL
PUMPING RATE AND DRAW DOWN

ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THIS WORK SHALL BE PAID FOR AT THE LUMP SUM PRICE BID FOR ITEM SPECIAL - "CLEANING WELL".

RENOVATION OF EXISTING GRASS AREAS

AREAS WHICH ARE DAMAGED DUE TO STORAGE OR CONSTRUCTION OPERATIONS UNDER THIS CONTRACT ARE TO BE FILLED IN AND UNIFORMLY COVERED WITH ONE (1) INCH OF TOPSOIL (653.02).

FERTILIZER (12-12-12) 659.03, SHALL BE APPLIED AT THE RATE OF 15 POUNDS PER 1,000 SQUARE FEET AND WORKED INTO THE SOIL TO A DEPTH OF THREE (3) INCHES.

SEED SHALL BE THE URBAN MIXTURE AS SPECIFIED IN 659.09. MULCH SHALL BE AS SPECIFIED IN 659.06.

THE EXTENT OF AREAS TO BE RENOVATED SHALL BE AS DETERMINED BY THE ENGINEER. ALL AREAS TO BE RENOVATED, PLUS THE IMMEDIATE ADJACENT AREA, SHALL BE MOWED TO A HEIGHT OF TWO (2) INCHES BEFORE ACTUAL OPERATION OF SEEDING AND RENOVATING EXISTING SOIL IN ACCORDANCE WITH ITEM 655. ALL AREAS TO BE RENOVATED SHALL BE DONE BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE STATE.

EXISTING SHELTER HOUSES

THE EXISTING SHELTER HOUSES - ONE IN EACH PARK - SHALL REMAIN UNDISTURBED AND BECOME A FEATURE OF THE REDESIGNED FACILITIES.

REMOVAL OF STRUCTURES, FOUNDATIONS AND SLABS

THIS WORK SHALL CONSIST OF THE REMOVAL OF EXISTING STRUCTURES (BUILDINGS), APPURTENANCES, FOUNDATIONS, CONCRETE SLABS, AND WALKS IN CONFORMANCE WITH THE PROVISIONS OF SECTION 202.

CLEAN WATER CONNECTIONS TO SANITARY SEWERS

ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE PROHIBITED.

SODDING, AS PER PLAN

ALL NEW CONCRETE WALKS AND DRIVES WITHIN THE REST AREAS SHALL HAVE A BORDER OF SOD ON EACH SIDE * SOD SHALL BE LAID IN ACCORDANCE WITH ITEM 660 EXCEPT THAT IT SHALL BE KENTUCKY BLUEGRASS, WEED FREE, AND BE COMMERCIALLY CULTIVATED (NURSERY GROWN). * *or as directed by the Engineer.*

GENERAL NOTES

F.H.W.A. REGION	STATE	PROJECT	
5	OHIO	IR-70-1(37)2	

PREBLE COUNTY
PRE.-70-2.80

2A
68

ITEM SPECIAL - GROUND ROD (INSTALLATION ONLY)

THE CONTRACTOR SHALL INSTALL A 5/8 INCH BY 10 FOOT COPPERWELD GROUND ROD AT THE CONCRETE TRANSFORMER PAD. THE GROUND ROD WILL BE PROVIDED BY, AND THE THE GROUND ROD WILL BE INSTALLED IN A LOCATION DIRECTED BY, THE DAYTON POWER AND LIGHT COMPANY.

THE UNIT PRICE BID PER EACH FOR ITEM SPECIAL - GROUND ROD (INSTALLATION ONLY) SHALL INCLUDE PAYMENT FOR ALL LABOR, TOOLS, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM.

ITEM SPECIAL - HISTORICAL MARKER REMOVED AND RELOCATED

THE CONTRACTOR SHALL REMOVE THE EXISTING HISTORICAL MARKERS, AS LOCATED ON SHEET NO. 10 FOR THE WESTBOUND AREA AND SHEET NO. 19 FOR THE EASTBOUND AREA, BY CAREFULLY EXCAVATING AROUND THE EXISTING MARKER POST AND ITS CONCRETE EMBEDMENT. ANY LOOSE CONCRETE AROUND THE MARKER'S POST SHALL BE REMOVED. THE HISTORICAL MARKER IS TO BE RELOCATED TO THE LOCATION SHOWN ON SHEET NO. 12 FOR THE WESTBOUND AREA AND SHEET NO. 21 FOR THE EASTBOUND AREA. THE CONTRACTOR SHALL SET THE MARKER PLUMB AND AT THE SAME HEIGHT ABOVE FINISHED GRADE AS IT WAS PREVIOUSLY SET. A MINIMUM OF SIX (6) INCHES OF NEW CONCRETE SHALL BE CAST AROUND THE EXISTING MARKER POST AND CONCRETE. ONCE THE CONCRETE HAS SUFFICIENTLY CURED, THE CONTRACTOR SHALL COVER THE CONCRETE EMBEDMENT.

THE UNIT PRICE BID PER EACH FOR ITEM SPECIAL - HISTORICAL MARKER REMOVED AND RELOCATED SHALL INCLUDE PAYMENT FOR ALL LABOR, TOOLS, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM.

ITEM 625 - PULL BOX, CONCRETE 48", MODIFIED AS PER PLAN

IN LIEU OF THE REQUIREMENTS OF STANDARD DRAWING HL-10, THE PULL BOX SHALL BE CONSTRUCTED WITH AN INTERIOR NOMINAL DIMENSION OF 48 INCHES. A WIRE PULLING RING IS TO BE INSTALLED IN THE WALL OR WALLS INDICATED FOR EACH PULL BOX. ALL OTHER REQUIREMENTS OF STANDARD DRAWING HL-10 SHALL APPLY.

THE UNIT PRICE BID PER EACH FOR ITEM 625 - PULL BOX, CONCRETE 48", MODIFIED AS PER PLAN SHALL INCLUDE PAYMENT FOR ALL LABOR, TOOLS, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM.

ITEM SPECIAL - INCINERATOR AND CONCRETE SLAB REMOVED AND DISPOSED

THE CONTRACTOR SHALL REMOVE AND DISPOSE THE EXISTING INCINERATOR AND ITS CONCRETE BASE SLAB, AS LOCATED ON SHEET NO. 10 FOR THE WESTBOUND AREA AND SHEET NO. 19 FOR THE EASTBOUND AREA. THE CONTRACTOR SHALL BACKFILL THE AREA OF THE CONCRETE SLAB TO MATCH THE ADJACENT GRADES. THE BACKFILL MATERIALS SHALL BE SIMILAR TO THAT WHICH IS ADJACENT TO THE AREA TO BE BACK-FILLED.

THE UNIT PRICE BID PER EACH FOR ITEM SPECIAL - INCINERATOR AND CONCRETE SLAB REMOVED AND DISPOSED SHALL INCLUDE ALL LABOR, TOOLS, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM.

UNDERDRAINS FOR PULL BOXES

REFERENCE IS MADE TO STANDARD DRAWING HL-10 FOR DETAILS OF DRAINING PULL BOXES. UNDERDRAINS FOR PULL BOXES SHALL BE USED AS DIRECTED BY THE ENGINEER AND SHALL BE PROVIDED WHERE THE LENGTH REQUIRED FOR A SATISFACTORY OUTLET DOES NOT EXCEED APPROXIMATELY 20 FEET. AN ESTIMATED QUANTITY OF 780 LINEAR FEET OF ITEM 605, 4" SHALLOW PIPE UNDERDRAINS" IS INCLUDED IN THE LIGHTING GENERAL SUMMARY FOR THIS PURPOSE.

APPROVED EQUAL MANUFACTURERS OR COMPANIES

IT IS INTENDED, THAT IN THOSE LOCATIONS THROUGHOUT THE PLANS AND SPECIAL SPECIFICATIONS WHERE MANUFACTURING COMPANIES OR SOURCES OF MATERIALS ARE LISTED, THE CONTRACTORS MAY UTILIZE OTHER MANUFACTURING COMPANIES OR SOURCES OF MATERIALS PROVIDED THE INTENT OF THE PLANS AND SPECIAL PROVISIONS IS FOLLOWED.

THE ACCEPTANCE OF THE CONTRACTORS' PROPOSED ALTERNATES WILL BE DETERMINED BY THE SUBMISSION AND APPROVAL OF THE CONTRACTORS' SHOP DRAWING OR MATERIAL SELECTIONS.

ITEM SPECIAL, DRILLED WATER WELL ABANDONED

THE EXISTING CONCRETE OR STONE SLAB WELL COVER AND PUMPING EQUIPMENT SHALL BE REMOVED AND DISPOSED OF. THE CASING SHALL BE CUT OFF AT LEAST ONE FOOT BELOW THE FINISHED GRADE OUTSIDE PROPOSED PAVEMENT AREAS OR AT LEAST ONE FOOT BELOW THE PROPOSED SUBGRADE ELEVATION INSIDE PROPOSED PAVEMENT AREAS. THE WELL SHALL BE FILLED FROM BOTTOM TO TOP WITH CLEAN PUDDLED CLAY OR CONCRETE.

THE UNIT PRICE BID PER EACH FOR ITEM SPECIAL, DRILLED WATER WELL ABANDONED SHALL INCLUDE PAYMENT FOR ALL LABOR, TOOLS, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM.

ITEM SPECIAL - 3/4" FROST PROOF HYDRANT

THE CONTRACTOR SHALL FURNISH AND INSTALL A FROST PROOF HYDRANT WHERE INDICATED ON THE DRAWINGS. THE HYDRANT SHALL BE A MURDOCK E.P.A. APPROVED HYDRANT MODEL NO. E10B6FH FOR 3/4 INCH HOSE CONNECTION, WITH 48 INCH DEPTH OF BURY. HYDRANTS SHALL BE VANDAL RESISTANT ALL-METAL CONSTRUCTION, NON-POLLUTABLE, ANTI-SIPHONAGE FROM ANY UNDERGROUND SOURCE WITH PERMANENTLY ATTACHED VACUUM BREAKER ATTACHED TO THE HOSE OUTLET, ANTI-FREEZING, HANDWHEEL CONTROL WITH GALVANIZED STEEL RISER PIPE AND BLACK STEEL PIPE CASING; THESE SHALL INCLUDE E.P.A. CONVERSION KIT FOR 3/4 INCH HYDRANT. IN LIEU OF THE ABOVE SPECIFIED "MURDOCK" HYDRANT, WADE NO. W8640 MAY BE USED, SUBJECT TO THE ENGINEER'S APPROVAL. OR APPROVED EQUAL,

THE UNIT PRICE BID PER EACH FOR ITEM SPECIAL - 3/4" FROST PROOF HYDRANT SHALL INCLUDE PAYMENT FOR ALL LABOR, TOOLS, MATERIALS AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM.

[redacted]

ITEM SPECIAL - CONCRETE TRANSFORMER PAD

THE CONTRACTOR SHALL INSTALL A CONCRETE TRANSFORMER PAD IN ACCORDANCE WITH THE DETAIL AND NOTES SHOWN ON SHEET NO. 17 AND THE STANDARDS OF THE DAYTON POWER AND LIGHT COMPANY. THIS ITEM WILL INCLUDE THE SUPPLYING AND INSTALLATION OF THE PROTECTIVE BOLLARDS. THE INSTALLATION OF THE GROUND ROD SHALL BE PAID FOR SEPARATELY.

THE UNIT PRICE BID PER EACH FOR ITEM SPECIAL - CONCRETE TRANSFORMER PAD SHALL INCLUDE PAYMENT FOR ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM.

ITEM SPECIAL - BOULDERS

BOULDERS SHALL BE SUPPLIED AND DELIVERED TO THE PROJECT SITE BY THE GENERAL CONTRACTOR. THE BOULDERS SUPPLIED SHALL MEET THE FOLLOWING MINIMUM REQUIREMENTS.

A. BOULDERS SHALL WEIGH A MINIMUM OF 700 POUNDS EACH.
B. BOULDERS SHALL BE IN THEIR "NATURAL" FORM (NO CUT STONE OR QUARRIED STONE SHALL BE PERMITTED).
C. GRANITE BOULDERS SHALL BE SELECTED WHERE POSSIBLE, BUT OTHER BOULDERS OF SIMILAR COMPOSITION ARE ALLOWABLE IF APPROVED BY THE ENGINEER IN CONSULTATION WITH THE DISTRICT HORTICULTURIST. NOTE: NO BOULDERS COMPOSED OF SHALE, LOOSELY COMPACTED SANDSTONE OR OTHER HIGHLY ERODIBLE FORMATIONS SHALL BE PERMITTED.

PLACEMENT OF BOULDERS WITHIN THE PLANTING BEDS (SEE SHTS. 9 & 18) SHALL CONFORM TO THE PLANS AS CLOSELY AS POSSIBLE. BOULDERS SHALL BE BURIED TO A DEPTH OF APPROXIMATELY ONE-THIRD (1/3) OF TOTAL HEIGHT BELOW THE FINAL SOIL GRADE. NO BOULDERS SHALL BE OVER 3 FEET IN HEIGHT ABOVE FINISH GRADE.

COST OF ALL OF THE ABOVE SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM SPECIAL - BOULDERS.

ITEM SPECIAL - 6" CAST IRON SOIL PIPE (SV) W/FLEXIBLE JOINTS, AS PER PLAN.

The contractor shall furnish and install 6" CAST Iron Pipe (SV) service weight with resilent, flexible joints and C.M.S., Item 606 Class "C" bedding as shown in the plans.

The pipe shall conform to ASTM A-74-75, CISP-301-78 With neoprene gaskets as per ASTM C-564-70.

The gravity portion of all cast iron soil pipe (SV) shall be air tested at 4 P.S.I. for a duration time of eight (8) minutes with 0.0 P.S.I. pressure drop, in the presents of the project engineer, prior to backfilling.

Payment will be made at the contract unit price bid per linear foot of 6" Cast Iron Pipe, furnish and installed, including all labor, materials, tools, equipment, excavation and backfill, incidentals and testing necessary to complete this item.

ITEM SPECIAL - 6" DUCTILE IRON SANITARY SEWER PIPE W/MECHANICAL JOINTS, AS PER PLAN.

The contractor shall furnish and install 6" Ductile Iron Sanitary Sewer Pipe and fittings in locations, as shown in plans, where water main crosses above the sanitary sewer and the vertical clearance between the bottom of the water main and the crown of the sanitary sewer is less than 18". The 6" Ductile iron sanitary sewer pipe shall be laid for a minimum of 10 feet on either side of the centerline of the water line.

The ductile iron sanitary sewer pipe shall be air pressure tested to 50 P.S.I., per duration time of eight (8) minutes with 0.0 P.S.I. pressure drop, in the presents of the project engineer, prior to backfilling the trench. The requirements for excavation, installation, bedding and backfill shall be as specified in Item 603.

Payment will be made at the concrete unit price bid per linear foot of 6" ductile iron sanitary sewer pipe, furnish and installed, including all labor, materials, tools, equipment, excavation and backfill, incidentals and testing necessary to complete this Item.

ALTERNATE MANHOLE STEPS
Reinforced Polypropylene plastic manhole steps conforming with 711.31 but manufactured using ASTM D 2146, Type II, Grade 43758 plastic may be used on this project.

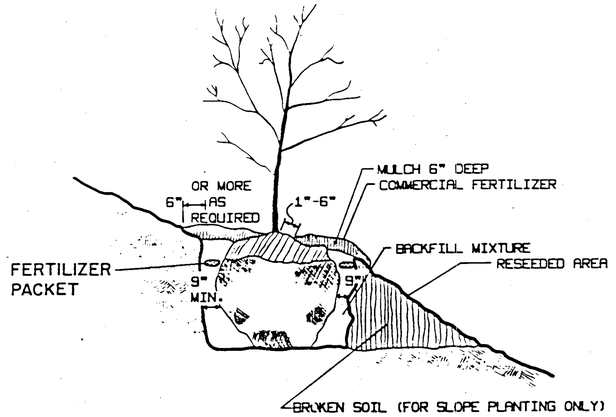
ALTERNATE MANHOLE TOPS
Eccentric cone tops used in the construction of precast manholes shall conform to the requirments of Standard Construction Drawings MH-3 except they may have minimum height of 24 inches.

SEEDING, SODDING AND TOPSOIL

To establish a good lawn in areas not covered under specific pay items such as 603-Storm & Sanitary Sewers and 625- Electrical Conduits & Cables, when directed by the Engineer, approved topsoil shall be spread 3" deep over all bare or disturbed soil and the lawn areas sodded or seeded. (See sheets No. 11 and 20 for estimated quantities.)

Finish grading shall be adjusted where necessary to maintain proper ground line where topsoil and sod are required.

GENERAL NOTES



THE TOP OF THE ROOT BALL SHALL BE 1 INCH ABOVE THE NORMAL GROUND LINE IN AVERAGE SOILS. 3 INCHES IN HEAVY CLAY SOILS AND 6 INCHES WHERE IMPERMEABILITY IS ENCOUNTERED.

ON SLOPES WHERE HEAVY CLAY AND IMPERMEABLE SOILS ARE PRESENT THE DOWN HILL SIDE OF THE POCKET HOLE SHALL BE BROKEN OR LOOSENED AND RETURNED TO ITS NATURAL GRADE TO PROVIDE DRAINAGE FOR THE HOLE.

PLANTING HOLE AND BED PREPARATION

AFTER THE LAYOUT IS APPROVED BY THE ENGINEER, SHRUB & GROUNDCOVER BEDS SHALL BE CULTIVATED TO A MINIMUM DEPTH OF SIX (6) INCHES BY A PLOW, HARROW OR DISC, OR OTHER METHOD APPROVED BY THE ENGINEER. THE CULTIVATION SHALL TAKE PLACE AS FAR IN ADVANCE OF THE PLANTING OPERATION AS POSSIBLE. WHERE SHRUBS ARE SHOWN, INDIVIDUAL HOLES SHALL BE DUG ON CENTERS AS SHOWN ON THE PLANS. THESE HOLES SHALL ALLOW FOR A MINIMUM OF NINE (9) INCHES OF BACKFILL MIXTURE AROUND THE SIDES OF THE BALLS. THE BOTTOM OF THE HOLE SHALL BE NO DEEPER THAN THE BALL TO BE PLANTED. THE MATERIAL REMOVED FROM THE HOLES SHALL BE TAKEN FROM THE PROJECT IF IT IS FOUND TO BE UNACCEPTABLE FOR USE AS BACKFILL AS DETERMINED BY THE ENGINEER. THE PLANT SHALL THEN BE SET AND THE HOLE FILLED WITH BACKFILL MIXTURE, AND THE PLANTING OPERATION PERFORMED AS SPECIFIED IN ITEMS 662.17 AND 662.18. ALL EXCESS DIRT SHALL BE REMOVED FROM THE SITE.

EXISTING TREES AND SHRUBS SHALL TAKE PRIORITY OVER PROPOSED PLANTINGS. THE LOCATIONS OF THE PROPOSED TREES AND SHRUBS ARE APPROXIMATE AND MAY BE REARRANGED AT THE DIRECTION OF THE ENGINEER WHEN OBSTRUCTIONS ARE ENCOUNTERED.

IF AN AUGER IS USED IN DIGGING POCKET HOLES AND POLISHED (SHINY) SIDES OCCUR IN CLAY OR HEAVY SOILS, THE USE OF SUCH AN AUGER SHALL BE DISCONTINUED AND THE HOLES SHALL BE DUG WITH A BACKHOE OR ANOTHER APPROVED METHOD.

BACKFILL NO. 1 - THE BACKFILL MIXTURE USED TO FILL POCKET HOLES IN LIGHT AND MEDIUM SOILS (SAND & AVERAGE) SHALL CONSIST BY VOLUME OF: 2 PARTS *SOIL CONDITIONER, 2 PARTS COMPRESSED SPHAGNUM PEAT OR 3 PARTS SEDGE PEAT, AND 2 PARTS APPROVED TOPSOIL.

BACKFILL NO. 2 - THE BACKFILL MIXTURE USED TO FILL POCKET HOLES IN HEAVY SOILS (CLAY & SHALE) SHALL CONSIST BY VOLUME OF: 1 PART*SOIL CONDITIONER, 1 PART COMPRESSED SPHAGNUM PEAT OR 2 PARTS SEDGE PEAT, AND 2 PARTS APPROVED TOPSOIL.

INCORPORATE THOROUGHLY INTO THE BACKFILL MIXTURES 5 LBS. OF COMMERCIAL FERTILIZER (0-20-20) PER CUBIC YARD. THE ENGINEER, AFTER CONSULTATION WITH THE DIST. HORT. OR L.A. , SHALL DETERMINE THE LOCATIONS WHERE THE BACKFILL MIXTURES SHALL BE USED.

SCHEDULING

ALL DIGGING AND PLANTING OF DECIDUOUS PLANTS SHALL BE DONE AFTER OCTOBER 1, AND BEFORE JUNE 1. EVERGREENS SHALL BE DUG AND PLANTED AFTER MARCH 15, AND BEFORE JUNE 1.

ITEMS 662 & 663

ALL TREES AND SHRUBS SHALL BE SPECIMEN (NO.1 GRADE) PLANTS WITH GROWTH AND BRANCHING HABIT TYPICAL OF THE SPECIES SPECIFIED. NO PARK GRADE (NO. 2 OR 3 GRADE) PLANTS WILL BE ACCEPTED.

FERTILIZER

FOUR OUNCE (8 YEAR) COMMERCIAL FERTILIZER PACKETS USED IN PLANTING OPERATION SHALL BE DELIVERED DRY IN ORIGINAL, UNOPENED CONTAINERS. FERTILIZER ANALYSIS SHALL BE 16% NITROGEN, 8% PHOSPHORIC ACID AND 16% POTASH. FERTILIZER SHALL BE OF A SLOW RELEASE TYPE IN A POLYETHYLENE PERFORATED PACKET WITH MICROPORE HOLES.

THE PACKETS SHALL BE PLACED 6 TO 8 INCHES DEEP AND EVENLY SPACED AROUND THE PERIMETER OF THE PLANTING HOLE, ADJACENT TO THE BALL OR ROOT MASS BUT NOT IN DIRECT CONTACT WITH THE ROOTS. THE PACKETS SHALL NOT BE CUT, RIPPED OR DAMAGED.

EACH SHRUB OR TREE SHALL BE FERTILIZED ACCORDING TO THE FOLLOWING SCHEDULE:

VINES	1'-2'	1 PACKET
SHRUBS	1'-3'	2 PACKETS
SHRUBS	3'-4'	3 PACKETS
TREES	5'-6'	3 PACKETS
TREES	6'-8'	4 PACKETS
TREES	1½"-2" CAL.	2 PACKETS
TREES	2'-2½" CAL.	3 PACKETS
TREES	2½-3" CAL.	4 PACKETS
TREES	3"-3½" CAL.	5 PACKETS

IF IT BECOMES NECESSARY TO REMOVE AND REPLACE MISSING, DEAD OR UNHEALTHY PLANTS, ALL OLD (USED) PACKETS SHALL BE REPLACED WITH NEW PACKETS.

THE FOUR OUNCE 16-8-16 FERTILIZER PACKETS SHALL BE DESIGNATED BY THE MANUFACTURER TO BE EFFECTIVE FOR EIGHT YEARS. PACKETS SUCH AS "EEESY GROW", "THE UNIQUE FEEDER" OR AN APPROVED EQUAL SHALL BE USED.

ITEM 661.21 WATERING

WATER SHALL BE FURNISHED BY THE CONTRACTOR AND ALL PLANT MATERIAL SHALL BE WATERED THOROUGHLY AT THE TIME OF PLANTING REGARDLESS OF AMPLE MOISTURE CONTENT OF THE SURROUNDING SOIL. SUSPENSION OF WATERING OPERATIONS BECAUSE OF RAINFALL WILL BE DETERMINED BY THE ENGINEER IN CONSULTATION WITH THE DISTRICT HORTICULTURIST OR L.A.. AN AVERAGE OF ONE INCH OF RAINFALL PER WEEK SHALL BE CONSIDERED ADEQUATE. DETERMINATION OF RAINFALL SHALL BE BASED UPON THE USE OF A RAIN GAUGE APPROVED BY THE PROJECT ENGINEER & PROVIDED BY THE CONTRACTOR.

MULCH

MULCH SHALL BE AS PER ITEM 661.04 WITH THE FOLLOWING EXCEPTIONS: WOOD SHAVINGS OR PEAT MOSS OR CORN COBS SHALL NOT BE USED AS A TOP MULCH. WOOD CHIPS SHALL BE AGED (STOCKPILED) AT LEAST 6 MONTHS PRIOR TO PLACEMENT AROUND PLANTS. MULCH SHALL BE SIX INCHES LOOSE MEASUREMENT. AFTER MULCHING, COMMERCIAL FERTILIZER (12-12-12) SHALL BE APPLIED AS SPECIFIED IN ITEM 662.18. FOR ENTRY PLAZA BED AREAS USE THREE INCHES OF MULCH.

PRUNING

ALL PLANTS SHALL BE PRUNED WITHIN SEVEN DAYS AFTER PLANTING. THE PRUNING SHALL BE DONE ACCORDING TO SELECTED TYPICAL PLANTS OF EACH SPECIES PRUNED AND USED AS A SAMPLE AS DIRECTED BY THE ENGINEER.

ANY CANDLE GROWTH ON NEEDLE EVERGREENS WHICH EXCEED 3 INCHES AT PLANTING TIME SHALL BE CUT BACK TO THAT LENGTH IMMEDIATELY.

STORAGE AREAS

THE CONTRACTOR MAY STORE PLANT MATERIALS AND EQUIPMENT 30 FEET FROM PAVEMENT, BEHIND GUARDRAIL AND WITHIN OR ADJACENT TO THE PROJECT LIMITS BY OBTAINING OFFICIAL PERMISSION OF THE ENGINEER. NO PEDESTRIAN OR VEHICULAR TRAFFIC MAY BE IMPEDED NOR HAZARDOUS CONDITION CREATED AS A RESULT OF SUCH STORAGE.

THE STORAGE OF ALL DUG PLANTS SHALL CONFORM TO 661.14 WHETHER WITHIN THE PROJECT LIMITS, ADJACENT THERETO, OR AT SOME OTHER LOCATION. THESE AREAS SHALL BE DESIGNATED PRIOR TO ACTUAL PLANT STORAGE AND SHALL BE OPEN TO INSPECTION UPON REQUEST OF THE ENGINEER.

STAKING MATERIALS

ALL TREES SHALL BE STAKED AS SHOWN IN THE STANDARD DRAWING LA-2. STAKING OF SMALL ORNAMENTAL TREES SHALL BE SIMILAR TO THAT OF EVERGREENS. ALL DECIDUOUS TREE TRUNKS ARE TO BE TREATED WITH LINDANE SPRAY BEFORE WRAPPING.

SEED, SOD, AND WILDFLOWERS

LANDSCAPE ARCHITECT MUST BE INFORMED OF PRECISE BLENDS AND MIXTURES OF TYPES INTENDED TO BE USED.

TOPSOIL TESTING

TOPSOIL FAILING CURRENT TEST STANDARDS MAY BE ALTERED, UPON APPROVAL OF THE ENGINEER, BY ADDING APPROVED CONDITIONERS TO CORRECT THE DEFICIENCIES. TOPSOIL SHALL BE FREE OF JOHNSON GRASS AND CONFORM TO ITEM 653 AS DETERMINED BY THE ENGINEER.

PLANTING PERIOD OF ESTABLISHMENT

BEFORE FINAL INSPECTION, ALL PLANTINGS SHALL BE IN PLACE AND UNDER THE CARE OF THE CONTRACTOR FOR A PERIOD OF ESTABLISHMENT. THIS PERIOD SHALL BEGIN IMMEDIATELY UPON COMPLETION OF THE PLANTING OPERATION FOR ANY PLANT OR SPECIES GROUP AND CONTINUE UNTIL OCTOBER 1. IN NO CASE SHALL IT BE LESS THAN ONE GROWING SEASON, JUNE 1 TO OCTOBER 1.

DURING THIS PERIOD OF ESTABLISHMENT, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW SUCH HORTICULTURAL PRACTICES AS REQUIRED TO ASSURE THE VIGOR AND GROWTH OF THE TRANSPLANTED MATERIAL. THIS CARE SHALL INCLUDE WATERING, REMULCHING, RESTAKING, GUYING AND CULTIVATING. THERE SHALL BE A MINIMUM OF TWO WEEDING AND MOWING (BED EDGES, AROUND TREES AND GUY STAKES) PROGRAMS OF SUCH INTENSITY AS TO COMPLETELY RID THE PLANTED AND MULCHED AREAS OF WEEDS AND GRASSES. THE FIRST PROGRAM SHALL BEGIN ON OR ABOUT JUNE 15 AND THE OTHER APPROXIMATELY 8 WEEKS LATER.

EACH PLANT SHALL HAVE SUFFICIENT WATER TO KEEP IT IN A HEALTHY, GROWING CONDITION. IF LOCAL WEATHER CONDITIONS WARRANT, THE ENGINEER MAY REQUIRE WEEKLY WATERING. WHEN WATERING IS REQUIRED, A SCHEDULE FOR WATERING EACH PLANT SHALL BE SUPPLIED TO AND APPROVED BY THE ENGINEER. THE WATER SHALL BE APPLIED IN SUCH A MANNER AS TO SATURATE THE ROOT AND MULCHED AREA OF EACH PLANT WITHOUT CAUSING RUNOFF (SEE WATERING TABLE). IN CASE OF FALL PLANTINGS, THESE WATERINGS SHALL CONTINUE UNTIL SOIL FREEZE-UP AND RECOMMENCE AFTER THE SPRING THAW UNLESS OTHERWISE DIRECTED.

ON OR ABOUT SEPTEMBER 15, THE ENGINEER SHALL INSPECT THE PLANTING AND SUPPLY THE CONTRACTOR WITH A LISTING OF THOSE PLANTS HAVING DIED, DIED BACK BEYOND NORMAL PRUNING LINES OR ARE MISSING FROM THE PLANTING. THE CONTRACTOR SHALL MAKE THE REPLANTING AS REQUIRED AND IN ACCORDANCE WITH THE SPECIFICATIONS FOR THE ORIGINAL MATERIAL. THESE REPLACEMENTS ARE NOT SUBJECT TO THE PERIOD OF ESTABLISHMENT. HOWEVER, PLANTS PLANTED INITIALLY IN THE FALL WHICH HAVE DIED BEFORE THE SPRING PLANTING SEASON SHALL BE REPLACED IMMEDIATELY AND ARE SUBJECT TO THE ESTABLISHMENT PERIOD.

AFTER REPLACEMENTS HAVE BEEN PLANTED, THE FINAL INSPECTION SHALL BE MADE AND THE ACTUAL COUNT OF LIVE PLANTS OF EACH VARIETY AND SPECIES LISTED FOR PAYMENT.

WATERING TABLE

VINES 1'-2' SIZE	2 GALLON PER PLANT
SHRUBS 1'-3' SIZE	4 GALLONS PER PLANT
SHRUBS 4'-5' SIZE	7 GALLONS PER PLANT
TREES 5'-6' SIZE	10 GALLONS PER PLANT
TREES 1-1/4" - 1-1/2" CAL.	15 GALLONS PER PLANT
TREES 1-1/2" - 2" CAL.	20 GALLONS PER PLANT
TREES 2"-3" CAL.	25 GALLONS PER PLANT
TREES 3"-4" CAL.	30 GALLONS PER PLANT

THE METHOD OF MEASUREMENT FOR SUMMER WATERING SHALL BE BY APPROVED METERING FROM TANKS OR BY INDIVIDUALLY MEASURED CONTAINERS TO EACH PLANT TO BE WATERED. PAYMENT FOR PLANTING PERIOD OF ESTABLISHMENT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEMS 661, 662 AND 663.

*SOIL CONDITIONER

A SOIL CONDITIONER SUCH AS "TURFACE," "LUSOIL," "TERRAGREEN," OR AN APPROVED EQUAL SHALL BE USED. THE PARTICLE SIZE GRADATION OF THE SOIL CONDITION SHALL BE AT LEAST 80% PASSING A NO. 6 SIEVE AND NOT MORE THAN 5% PASSING A NO. 50 SIEVE. ALTERNATE SHALL BE HORTICULTURAL PERLITE.

HERBICIDES

AFTER PLANTING AND FERTILIZING HAVE BEEN COMPLETED AND APPROVED, THE AREA OF THE BED SHALL BE TREATED WITH SIMAZINE, DYMID OR AN APPROVED EQUAL HERBICIDE. RATE AND METHOD OF APPLICATION SHALL BE IN STRICT CONFORMANCE WITH MANUFACTURER'S INSTRUCTIONS AND UNDER THE DIRECT SUPERVISION OF A PESTICIDE APPLICATOR LICENSED BY THE STATE OF OHIO.

INSTALLATION

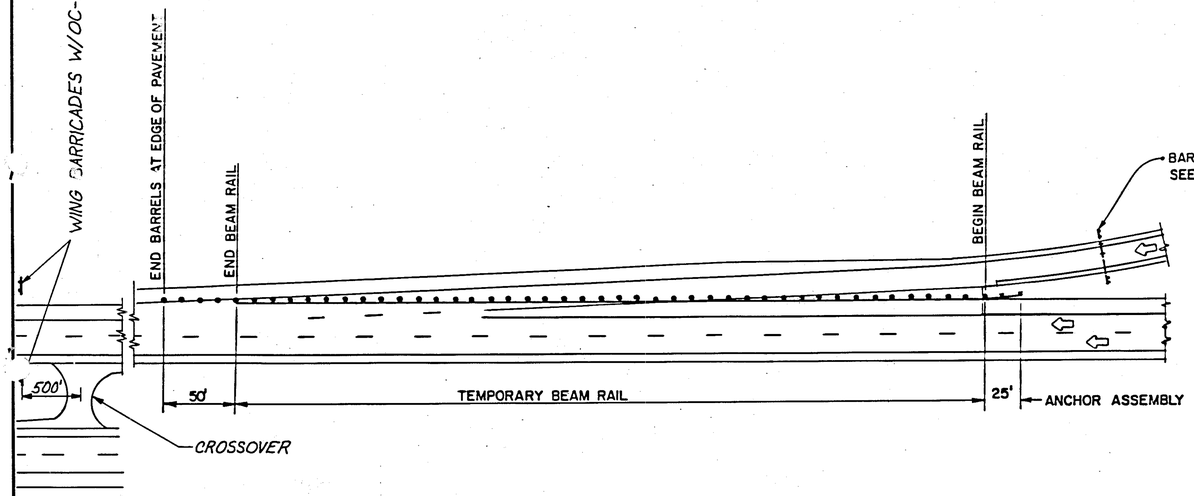
TREES AND SHRUBS SHALL BE INSTALLED IN ACCORDANCE WITH THIS SHEET AND O.D.O.T. STD. DRWG. LA-2.

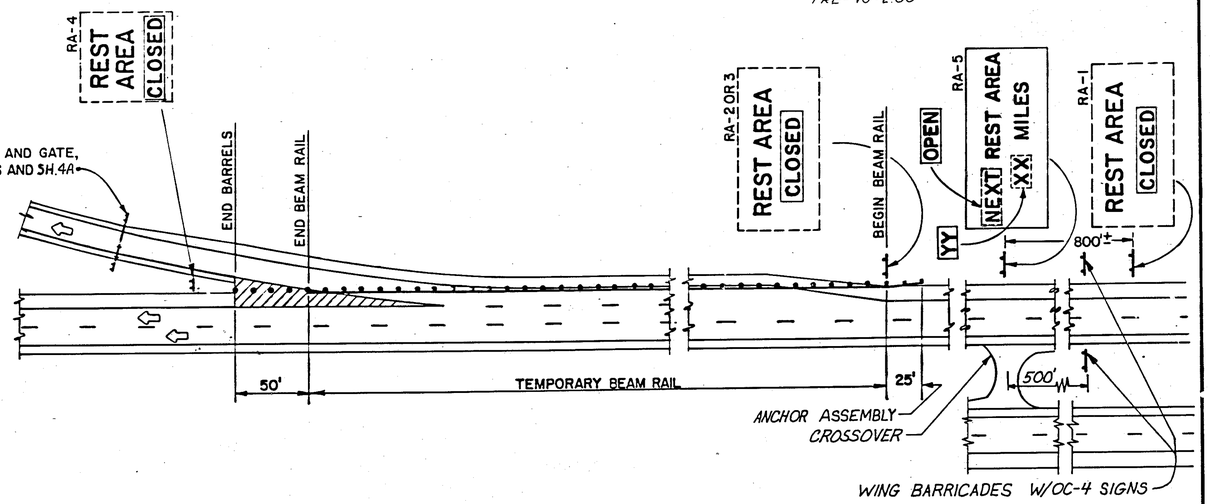
CALC. BY JB DATE 10/27/81
CHKD. BY JB DATE 10/28/81

IR-70-1(37) 2

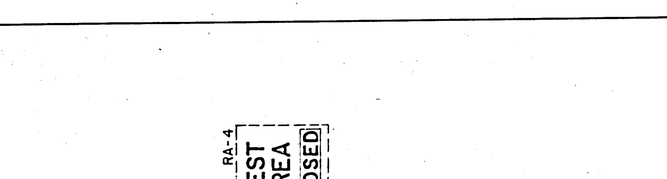
OHIO | FHWA REGION 5 | 4 / 68

PREBLE COUNTY
PRE-70-2.80





TEMPORARY ANCHOR ASSEMBLY



(SEE SH. 4A FOR ADDITIONAL DETAILS)

BARRICADES AND GATE

NOTES:

1. REST AREA SIGNS (RA-1 THRU RA-4) SHALL HAVE THE ACTION MESSAGE COVERED BY AN OVERLAY BEARING THE LEGEND "CLOSED". THIS PANEL SHALL HAVE A BLACK LEGEND ON A REFLECTORIZED ORANGE BACKGROUND. THE OVERLAY FOR THE RA-1, RA-2 AND RA-3 SIGNS SHALL BE 8'X1½'. THE OVERLAY FOR THE RA-4 SIGNS SHALL BE 4'X1½'.
2. SUPPLEMENTAL PANELS LOCATED UNDER MAINLINE REST AREA SIGNS SHALL BE REMOVED OR COVERED WHEN THE REST AREA IS CLOSED. (EXAMPLE: TELEPHONE, TOURIST INFO, HANDICAPPED SYMBOL SIGN).
3. TEMPORARY BEAM RAIL, IN ACCORDANCE WITH ODOT CONSTRUCTION AND MATERIAL SPECIFICATION 606.04, SHALL BE USED TO CLOSE THE ACCELERATION AND DECELERATION LANES FOR REST AREA CLOSURES EXCEEDING 7 DAYS. (FOR DETAILS ON ANCHOR ASSEMBLIES AND GUARDRAIL FLARES, SEE TEMPORARY ANCHOR ASSEMBLY DETAIL.) FOR REST AREA CLOSURES OF LESS THAN 7 DAYS, THE DECELERATION AND ACCELERATION LANES SHOULD BE CLOSED WITH REFLECTORIZED DRUMS PLACED 15' CENTER TO CENTER. THE EXISTING SHOULDER WIDTH SHALL BE MAINTAINED AT ALL TIMES.
4. WHERE REST AREA RAMP LIGHTING EXISTS, IT SHALL BE MAINTAINED IN PROPER CONDITION TO PROVIDE OPTIMUM ILLUMINATION.
5. REST AREA SIGN RA-5 SHALL BE ADDED WITH PROPER MILEAGE SHOWN. DURING CLOSURE THE WORDS "OPEN" AND APPLICABLE MILEAGE SHALL BE ADDED WITH BLACK ON ORANGE OVERLAYS. THE OVERLAY SIZE IS 3 1/2' X 1 1/2'. LOCATION TO BE APPROVED BY THE ENGINEER.
6. GATES AND BARRICADES, IN ACCORDANCE WITH SH.4A SHALL BE ERECTED ACROSS THE EXIT AND ENTRANCE RAMPS FOR THE REST AREA.

ESTIMATED QUANTITIES FOR EXTRU-SHEET SIGNS TO BE INCLUDED IN THE GENERAL SUMMARY, SHEET

ITEM	DESCRIPTION	UNIT	QUANT.
630	SIGN, EXTRUSHEET TYPE G	SQ.FT.	117
630	GROUND MOUNTED SUPPORT, W10X11.5	L.F.	72
630	CONCRETE FOR EMBEDDED FOUNDATION	C.Y.	4.4
630	BREAKAWAY BEAM CONNECTIONS	EA.	4

THESE ITEMS AND QUANTITIES SHALL BE FIELD CHECKED AND APPROVED BY THE ENGINEER.

7. THE FOLLOWING MILEAGES SHALL BE INCLUDED ON THE RA-5 SIGNS ON THIS PROJECT:

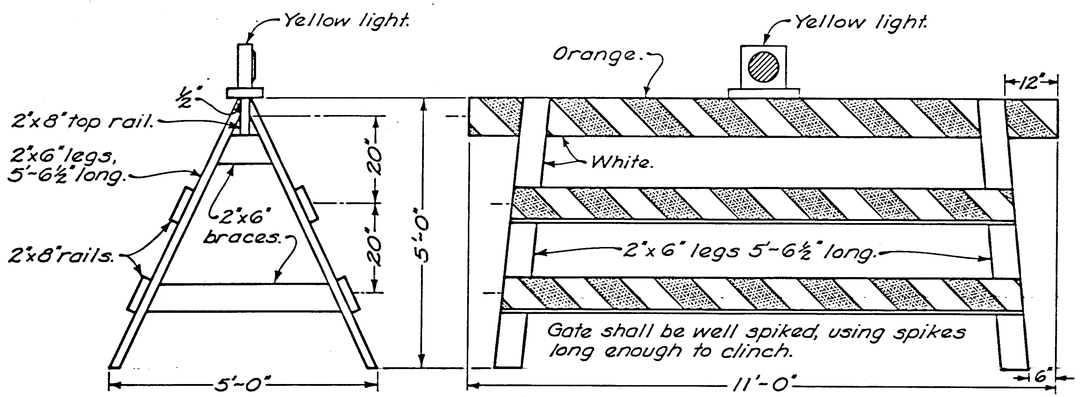
EB RA-5 PERMANENT MILEAGE 68
TEMPORARY MILEAGE —

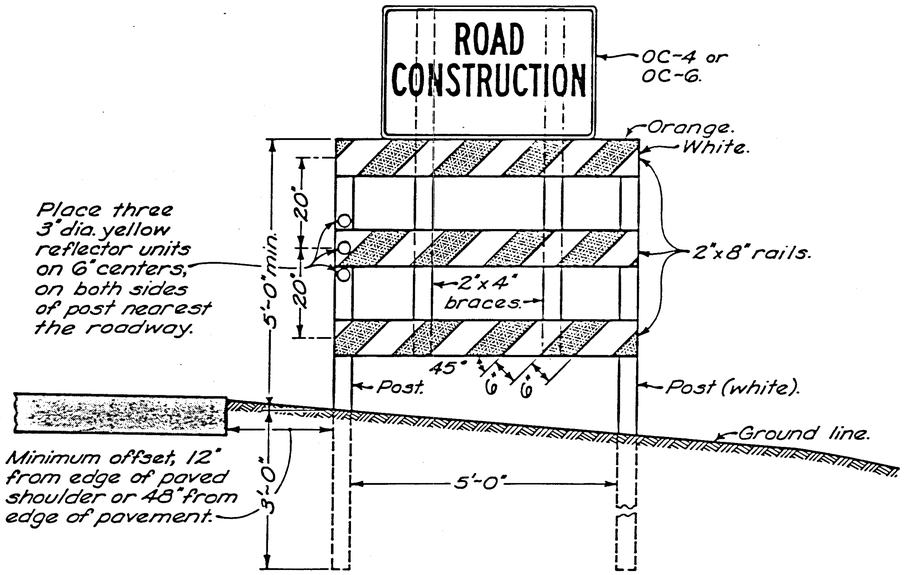
WB RA-5 PERMANENT MILEAGE 22
TEMPORARY MILEAGE —

1-19-82
12/31/81 ajld

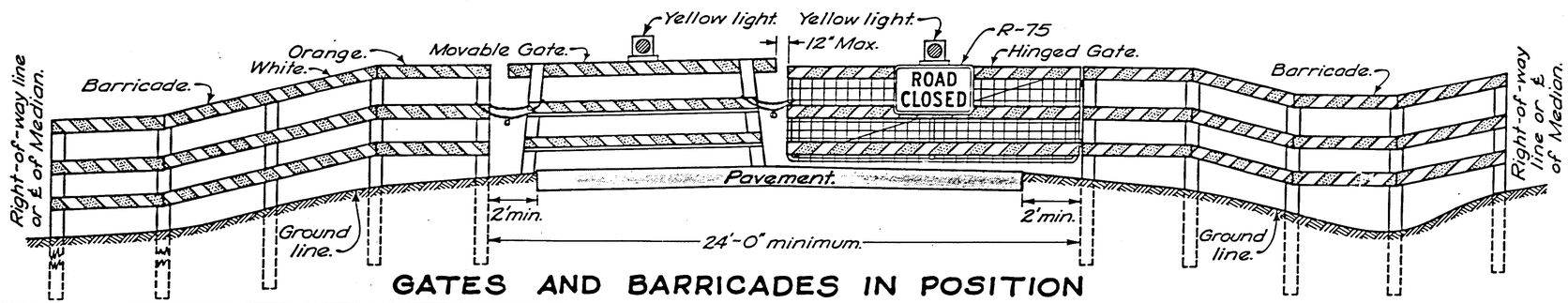
REST AREA CLOSURE DETAILS AND NOTES

MOVABLE GATE





WING BARRICADE



GATES AND BARRICADES IN POSITION

NOTES

BARRICADES shall be constructed according to details shown. Where traffic is maintained during construction, wing barricades shall be used on each shoulder: (1) at both ends of the project, (2) on all interchange entrance ramps or on the cross road preceeding the entrance ramp, (3) on all other major approach roads as directed by the Engineer. When the road is closed to traffic, barricades and gates shall be used to effectively close the entire roadway including the median of divided highways. In urban areas and at locations where it is impracticable to extend the barricade to the right-of-way line because of a sidewalk or other obstruction, the ends of the barricade shall be located as directed by the Engineer to effect the desired closing of the highway.

PAINTING AND REFLECTORIZATION: All rails of the barricades and gates shall be reflectorized with orange and white reflectorized sheeting in 6" wide alternate stripes which slope downward toward the center line of the road at an angle of 45%. All three rails of the Road Closed barricade shall be striped on the side facing traffic. All three rails of the wing barricade and all gate rails shall be striped on both sides. All posts, braces, gate legs and any unstriped rails shall be painted white.

GATES: One gate shall be erected for each traffic lane. Gates shall be chained and padlocked to one another and to adjacent posts of the barricades. Chains shall be ¼" stock or larger with welded links.

A hinged gate may be used and shall be an approved 12' by 4' steel frame farm type, or a type approved by the Engineer. The gate shall be hung on hinge screw hooks, or as otherwise approved. Striping similar to that used on the movable gate shall be accomplished with 1"x8" lumber or with metal strips fastened to the gate. The gate shall be supported at the center in an approved manner.

YELLOW LIGHT: Each gate shall be equipped with a steady burning yellow light, conspicuously visable at all distances up to 1000' under normal atmospheric conditions. The light, operated by battery, electric generator, commercial power or propane gas, shall be in operation at all times between sunset and sunrise during the period the highway is closed.

SIGNS: Where the road is closed to traffic by the erection of gates and barricades, a ROAD CLOSED sign (R-75) shall be mounted on the gate as shown. On three-lane pavement, the sign shall be mounted on the middle gate facing traffic.

Where traffic is maintained, a ROAD CONSTRUCTION TRAFFIC MAINTAINED sign (OC-4) shall be used on the right shoulder wing barricade on the approaches to major construction or maintenance jobs less than 2 miles in length. A ROAD CONSTRUCTION NEXT __ MILES sign (OC-6) shall be used on the right shoulder wing barricade on the approaches to any major construction or maintenance job of 2 miles or more in length. An END CONSTRUCTION sign (OC-8) shall be erected above the right hand wing barricade facing traffic leaving the construction section. The signs on the wing barricades shall be erected above the top rail of the wing barricade on braces, as detailed hereon.

LUMBER used in the construction of the gates and barricades shall be No. 1 common yellow pine or No. 1 common Douglas fir, surfaced on four sides standard, or other materials approved by the Engineer. All sizes are nominal.

POSTS shall be sound 4"x4" sawed or 4½" round. Rails of the barricade shall be bolted to the posts with ⅝" bolts.

PREBLE COUNTY
PRE-70-2.80

4A
68

GENERAL SUMMARY

COMPUTED BY J. C. E. DATE 12-17-82
CHECKED BY P. W. G. DATE 12-20-82

FHWA REGION	STATE	PROJECT	
5	OHIO	IR-70-1(371)2	

5/68

PREBLE COUNTY
PRE-70-2.80

ITEM	FROM SHEET NUMBER 4		9	10	11		14	16	17	18	19	20		23	25	26	27	39			
202				1																	
202				1																	
Spl				1412							568										
																	20				
Sp'l			3							2								16			
201				Lump							Lump										
202				4374							4572										
202				384							385										
202				Lump							Lump										
202				150							408										
203					Lump							Lump									
203					Lump							Lump									
452			756							634								102			
Sp'l																	642				
202				1							2										
604																	4				
607										668											
607			138							168											
607			1							1											
608			2							3											
608			7640							8440											
601					2							1									
609			384							385											
659					3,695							3,815									
659					0.76							6.64						0.18			
660					4,735							3,275						156			
630	117																				
630	72																				
630	4.4																				
630	4																				
604					1																
Sp'l										24											
202											2										
604					5							3									
603					462							335									
603					48																
602					0.65							0.20									
608					30																
603					130							108									
Sp'l			1																		
Sp'l										1											
Sp'l				2							1										
Sp'l				2							1										
																		1900			
Sp'l.			20							20											
Sp'l.			20							20											
Sp'l.			12							7											
Sp'l.			8							13											
Sp'l.			9							6											
Sp'l.				1							1										
Sp'l.				1							1										
Sp'l.				1							1										
Sp'l.																		1044			
451																		410			
668																		1900			
Sp'l.								1						1							
653					703							590									

ITEM	TOTAL	UNIT	DESCRIPTION
			GENERAL CONTRACT
202	1	Each	Electric Manhole Removed
202	1	Each	Catch Basin Removed
Special	1980	Lin.Ft.	Snow Fence - Tree Protection
Special	20	Lin. Ft.	6" Ductile Iron Sanitary Sewer Pipe w/Mechanical Joints
Special	21	Each	6" Wood Bench
201	Lump		Clearing And Grubbing
202	8940	Sq. Ft.	Walk Removed
202	769	Lin.Ft.	Curb Removed
202	Lump		Structures Removed
202	558	Lin.Ft.	Fence Removed
203	Lump		Excavation Not Including Embankment Construction
203	Lump		Embankment
452	1492	Sq.Yd.	7" Plain Portland Cement Concrete Pavement, As Per Plan
Special	642	Lin.Ft.	6" Cast Iron Soil Pipe (SV) With Flexible Joints
202	3	Each	Sanitary Manhole Removed
604	4	Each	Standard No. 3 Manhole with Joints, As Per 706.11 Modified As Per Plan
607	635	Lin.Ft.	Fence, Type 47RA
607	306	Lin.Ft.	Fence, Type CL, Modified As Per Plan
607	2	Each	Gate, Type CL, Modified As Per Plan
608	5	Each	Curb Ramps, Standard Type 1
608	16,080	Sq.Ft.	4" Concrete Walk, As Per Plan
601	3	Cu.Yd.	Rock Channel Protection, Type B With Filter Fabric.
609	769	Lin.Ft.	Curb, Standard Type G
659	7,510	Sq.Yd.	Seeding And Mulching
659	1.58	Ton	Commercial Fertilizer
660	8,166	Sq.Yd.	Sodding, As per Plan
630	117	Sq.Ft.	Signs, Extrusheet, TYPE G Sheeting
630	72	Lin.Ft.	Ground Mounted Supports, W 10 x 11.5
630	4.4	Cu.Yd.	Concrete For Embedded Foundations
630	4	Each	Breakaway Beam Connections
604	1	Each	Standard No. 3 Manhole with Flat Slab Top
Special	24	Each	Precast Concrete Tile Rounds
202	2	Each	Electric Box Removed
604	8	Each	Standard 2-2-8 Catch Basin
603	797	Lin.Ft.	12" Conduit, Type C 706.01, 706.02, 706.08
603	48	Lin.Ft.	15" Conduit, Type C 706.01, 706.02, 706.08
602	0.85	Cu.Yd.	Concrete Masonry
608	30	Lin.Ft.	Concrete Steps, Standard Type A, Modified as per plan
603	238	Lin.Ft.	3" Conduit, Type "C" 706.08
Special	1	Each	Motorist Services Building & Storage Unit (Except Electrical, Plumbing, Heating & Ventilating Work)
Special	1	Each	Motorist Services Building with Tourist Information Center & Storage Unit (Except Electrical, Plumbing, Heating & Ventilating Work)
Special	3	Each	Light Pole Removed.
Special	3	Each	Light Pole Foundation Removed.
Special	1900	Sq.Yd.	Mulching
Special	40	Each	Waste Receptacle Sleeve
Special	40	Each	Waste Receptacle Slab
Special	19	Each	Picnic Table & Slab
Special	21	Each	Picnic Table
Special	15	Each	Charcoal Grill & Serving Table (with Slab)
Special	2	Each	Incinerator & Concrete Slab Removed & Disposed
Special	2	Each	Drilled Water Well Abandoned
Special	2	Each	Historical Marker, Removed & Relocated
Special	1044	Lin. Ft.	1/8"x4" Steel Edging with stakes
451	410	Sq.Yd.	6" Reinforced Portland Cement Conc. Pavement with Tiled Rounds
668	1900	Sq.Yd.	Excelsior Matting
Special	2	Ea.	Revamping Existing Wastewater Treatment System (General Work)
653	1,293	Cu.Yd.	Topsoil furnished and placed

GENERAL SUMMARY

GENERAL SUMMARY

CALC. BY	DATE	CHKD. BY	DATE
		HWB	8-16-84

PREBLE COUNTY
PRE-70-2.80

OHIO | FHWA REGION 5 | 6 / 68

SHEET NUMBER 2	4	9	14	18	23	39	ITEM	QUANT.	UNIT	DESCRIPTION	SIZE	CONDITION
										GENERAL CONTRACT (CONTINUED)		
										LANDSCAPING		
										BOTANICAL NAME — COMMON NAME	SIZE	CONDITION
						24	661	24	Each	Parthenocissus quinquefolia-Virginia Creeper	2 YR.	No. 2 Cont.
						1400	661	1,400	Each	Hedera helix 'Baltica'-Baltic English Ivy	2¼"	Pots
			1465		1535		661	3,000	Each	Vinca minor-Common Periwinkle	1 YR. Bundle	Flats
			105		150		661	255	Each	Hemerocallis species-Day Lily (Red & Yellow colors)	2 YR.	Clump or Pot
			125		50		662	175	Each	Euonymus alatus 'compacta'-Compact Winged Euonymus	2½'-3' Hgt.	B & B 12"
			95		127	100	662	322	Each	Juniperus chin. 'SeaGreen'-SeaGreen Juniper	24"-30" Sp.	No. 5 Cont.
			14		11	4	662	29	Each	Viburnum chenaultii-Chenault Viburnum	2½'-3' Hgt.	B & B 12"
						134	662	134	Each	Berberis thunbergi-Japanese Barberry	24"-30" Hgt.	No. 3 Cont.
						120	662	120	Each	Forsythia v. bronxensis-Bronx Forsythia	15"-18" Hgt.	No. 3 Cont.
						12	662	12	Each	Pyracantha angusta 'Gnome'-Gnome Pyracantha	3'-4' Hgt.	No. 5 Cont.
						60	662	60	Each	Taxus media brownii-Browns Yew	18"-24" Sp.	B & B 12"
						28	662	28	Each	Taxus media hicksii-Hicks Yew	24"-30" Hgt.	B & B 14"
			6		13	48	662	67	Each	Taxus media wardii-Wards Yew	18"-24" Sp.	B & B 12"
			5				663	5	Each	Acer rubrum 'Scarlet Sentinel'-Scarlet Sentinel Maple	2½"-3" Cal.	B & B 32"
			3		8		663	11	Each	Acer rubrum 'Autumn Flame'-Autumn Flame Red Maple	2½"-3" Cal.	B & B 32"
						4	663	4	Each	Acer rubrum 'Red Sunset'-Red Sunset Red Maple	3"-3½" Cal.	B & B 38"
						2	663	2	Each	Aesculus glabra-Ohio Buckeye	1¾"-2" Cal.	B & B 24"
			11		6		663	17	Each	Crataegus vir. 'Winter King'-Winter King Hawthorn	1¾"-2" Cal.	B & B 24"
						4	663	4	Each	Malus 'Selkirk'-Selkirk Crapapple	2"-2½" Cal.	B & B 28"
			7		10		663	17	Each	Picea abies-Norway Spruce	5'-6' Hgt.	B & B 22"
			21		13		663	34	Each	Picea abies-Norway Spruce	6'-7' Hgt.	B & B 24"
			7		3		663	10	Each	Pseudotsuga menziesii-Douglas Fir	5'-6' Hgt.	B & B 22"
			9		5		663	14	Each	Pseudotsuga menziesii-Douglas Fir	6'-7' Hgt.	B & B 24"
			5		8		663	13	Each	Quercus imbricaria-Shingle Oak	2½"-3" Cal.	B & B 32"
			4		5	12	663	21	Each	Quercus rubra maxima-Eastern Red Oak	2½"-3" Cal.	B & B 32"
						1900	Special	1,900	Sq. Yd.	Seeding with Wildflower Mix		
		19		21			Special	40	Each	Boulders		
	LUMP						614	LUMP		Maintaining Traffic		
LUMP							619	LUMP		Field Office		
							623	LUMP		Construction Layout Stakes		
							624	LUMP		Mobilization		
							TOTAL BID GENERAL CONTRACT					

GENERAL SUMMARY

COMPUTED BY J.C.E. DATE 12-17-82
CHECKED BY P.W.G. DATE 12-20-82

FHWA REGION	STATE	PROJECT	
5	OHIO	IR-70-1(37)2	

PREBLE COUNTY
PRE-70-2.80

7
68

ITEM	FROM SHEET NUMBER																ITEM	TOTAL	UNIT	DESCRIPTION
	4		9	10	11		14	16	17	18	19	20		23	25	26	27				
																				PLUMBING CONTRACT
Sp'l			1 -															Special	1	Each	Motorist Services Building & Storage Unit (Plumbing Only)
Sp'l								1 -							1			Special	2	Each	Cleaning Well
Sp'l								1 -							1			Special	2	Each	Water Well Assembly (Except Electrical Work)
Sp'l								1 -							1			Special	2	Each	Water System Hypochlorinator (Except Electorical Work)
Sp'l								1 -							1			Special	2	Each	Water Reservoir Assembly (Plumbing Only)
Sp'l										1								Special	1	Each	Motorist Services Building with Tourist Center and Storage Unit (Plumbing Only)
Sp'l			260							325								Special	585	Lin. Ft.	1" Type "K" Copper Water Line and 6 Hydrants
Sp'l								192 -							538			Special	728	Lin. Ft.	Plumbing Contract - Cold Water Service to Waste Treatment Plant
Sp'l.								1 -							1			Special	2	Each	3/4" Frost Proof Hydrant
624																					
Sp'l.								1 -							1			Special	2	Each	Revamping Existing 10,000 gal. steel underground Reservoir Tank (Plumbing Work Only)
Sp'l.								1 -							1			Special	2	Each	Revamping Existing Wastewater Treatment System (Plumbing Work Only)
																		624	Lump		Mobilization
																		TOTAL BID PLUMBING CONTRACT			
																				HEATING & VENTILATING CONTRACT
Sp'l			1 -															Special	1	Each	Motorist Services Building & Storage Unit (Heating & Ventilating Only)
Sp'l										1								Special	1	Each	Motorist Service Building with Tourist Information Center and Storage Unit (Heating and Ventilating Only)
624																		624	Lump		Mobilization
																		TOTAL BID HEATING & VENTILATING CONTRACT			

GENERAL SUMMARY

COMPUTED BY J. C. E. DATE 12-17-82
CHECKED BY P. W. G. DATE 12-20-82

FHWA REGION	STATE	PROJECT	
5	OHIO	IR-70-1(37)2	

PREBLE COUNTY
PRE-70-2.80

8
68

ITEM	FROM SHEET NUMBER 4	2A	9	10	11		14	16	17	18	19	20		23	25	26	27	ITEM	TOTAL	UNIT	DESCRIPTION
																					ELECTRICAL CONTRACT
60'1			1															Special	1	Each	Motorist Services Building & Storage Unit (Electrical Only)
60'1								1							1			Special	2	Each	Water Well Assembly, (Electrical Work Only)
60'1								1							1			Special	2	Each	Water System Hypochlorinator, (Electrical Work Only)
60'1								620							270			Special	890	Lin.Ft.	Plastic Coution Tape, Complete and in Place
60'1										1								Special	1	Each	Motorist Services Building with Tourist Information Center and Storage Unit (Electrical Only)
625								215							502			625	717	Lin.Ft.	3" Conduit, 713.04 (Electric)
625								2131							2501			625	4632	Lin.Ft.	2" Conduit, 713.04 (Electric)
625								752							600			625	1352	Lin.Ft.	2" Conduit, 713.04 (Telephone)
625								1233							570			625	1803	Lin.Ft.	4" Conduit, 713.07 (Primary)
625								6							4			625	10	Each	Pullbox, Concrete 24", 713.09 (Telephone)
625								744							735			625	1479	Lin.Ft.	Trench, 36" AS Per Plan (Primary & Telephone) (Secondary & Telephone)
625								126							1089			625	1215	Lin.Ft.	N°4 AWG, RHH/RHW, USE 600 Volt Distribution Cable
625								369							240			625	609	Lin.Ft.	3-1/C 500 MCM, UL Type USE 600 Volt Secondary Feeder Cable
625								1918							2151			625	4069	Lin.Ft.	Trench
625								16							14			625	30	Each	Connector Kit Type II
625								16							19			625	35	Each	Ground Rod
625								224							196			625	420	Lin.Ft.	No. 4 AWG Pole and Bracket Cable
625								120							120			625	240	Lin.Ft.	4" Conduit 713.04 (Secondary)
625								20							33			625	53	Each	Cable Splicing Kit
Spl.								1							1			625	2	Each	Pullbox, Concrete 48", Modified as per Plan
625								765							1866			625	2631	Lin. Ft.	N°4/0 AWG RHH/RHW - USE 600 Volt Distribution Cable
Spl.								1							1			Special	2	Each	Ground Rod (Installation Only)
605								340							440			605	780	Lin. Ft.	4" Shallow Pipe Underdrains
Spl.								1							1			Special	2	Each	Revamping Exist. Wastewater Treatment System (Electrical Work Only)
60'1								1							1			Special	2	Each	Water Reservoir Assembly, (Electrical Work Only)
625								5							3			625	8	Each	Light Pole, 14 Foot Mounting Height
625								7							6			625	13	Each	Luminaire, 150 W, HPS, Type II Light Distribution
625								1							1			625	2	Each	Luminaire, 150 W, HPS, Type III Light Distribution
Spl.								1							1			Special	2	Each	Concrete Transformer Pad
625								5							3			625	8	Each	Light Pole Foundation
625								1							1			625	2	Each	Control Center
Spl								1							1			Special	2	Each	Revamping Existing 10,000 gal. Steel Underground Reservoir Tank (Electrical Work Only)
623																					
624																					
625								10							17			625	27	Each	Pull Box, Concrete 24", 713.09 (Electric)
625								2354							1417			625	3,771	Lin.Ft.	No. 10 AWG, Pull Wire, 625.13
625								5091							6615			625	11,706	Lin.Ft.	No. 4 AWG, UL. TYPE MV-90 DRY, 713.02, 5000 Volt Distribution Cable
625								3052							4380			625	7432	Lin.Ft.	3ZIA, 18 Ga., 41 Strand, Copper, Insulated, Single Conductor (Level Control)
625								2541							2304			625	4,845	Lin.Ft.	No. 10 AWG, RHH/RHW-USE, 600 Volt Distribution Cable
625								30							40			625	70	Lin.Ft.	1" Conduit, 713.04 (Electric)
625								22							20			625	42	Lin.Ft.	2½" Conduit, 713.04 (Electric)
625								3							3			625	6	Each	Brundy, Copper, Terminal Cable Lug Connectors
839								LUMP							LUMP			839	LUMP		High Voltage Test
Spec.								35										Special	35	Lin.Ft.	16" Schedule 40 Galv. Steel Pipe Sleeve, in place
Spec.															30			Special	30	Lin.Ft.	20" Schedule 40 Galv. Steel Pipe Sleeve, in place
																		623	Lump		Construction Layout Stakes
																		624	Lump		Mobilization
																					TOTAL BID ELECTRICAL CONTRACT

ESTIMATED QUANTITIES

Item №	Description	Quantity
Sp'l.	Motorist Services Bldg. (Except Elec., Plumbing, Heating & Ventilating)	1 Ea.
Sp'l.	6' Wood Bench	3 Ea.
452	7" Plain Portland Cement Concrete Pavement	756 S.Y.
608	4" Concrete Walk	7640 S.F.
609	Curb, Standard Type 6	384 Lin. Ft.
608	Curb Ramp, Standard Type 1	2 Ea.
607	Gate, Type C.L., Modified As Per Plan	1 Ea.
607	Fence Type CL, Modified As Per Plan	138 L.F.
Sp'l.	Motorist Services Bldg. (Plumbing Only)	1 Ea.
Sp'l.	Motorist Services Bldg. (Electrical Only)	1 Ea.
Sp'l.	Motorist Services Bldg. (Heating and Ventilating Only)	1 Ea.
Sp'l.	Waste Receptacle Sleeve	20 Ea.
Sp'l.	Waste Receptacle Slab	20 Ea.
Sp'l.	Picnic Table and Slab	12 Ea.
Sp'l.	Charcoal Grill and Serving Table	9 Ea.
Sp'l.	Picnic Table	8 Ea.
Sp'l.	Boulders	19 Ea.
Sp'l.	1" Type "K" Copper Water Line & Hydrants	260 L.F.

F.H.W.A. REGION 5 | STATE OHIO | PROJECT IR-70-1(37)2
9/68
PREBLE COUNTY
PRE-70-2.80
State of Ohio D.B. 272, Pg. 465
State of Ohio D.B. 243, Pg. 120
Original L.A. R/W
Jefferson Township Sec. 34, T-9N, R-1E
PROPOSED SERVICE DRIVE
PLAZA QUANTITIES ON SHEET № 39
PROPOSED MOTORIST SERVICES BUILDING
Test Hole B-2 Elev. 1218.1
Test Hole B-1 Elev. 1218.1
Test Hole B-3 Elev. 1217.7
See detail of fountain on Sheet No. 50
PROPOSED WALK
Existing Sewage Treatment
Proposed Type C.L. Fence (6'-0" Height)
Place 12' gate at drive
Existing Roadside Restroom Facility & Storage Unit
Ex. Well Casing
Ex. 2000 Gal. Water Tank
Existing Shelter House
See Sheet № 11 For Step Detail.
TYPE 1 CURB RAMP
PROPOSED HANDICAPPED PARKING
PROPOSED TYPE 6 CONCRETE CURB
Curb Ramp Type 1 (See Std. Dwg. BP-12)
Depress Curb
Ex. Sign
Ex. 6" Parking Lines
Existing Parking 32 Cars
Ex. Type 6 Concrete Curb (Modified) Typ.
Ex. 5' Conc. Walk
Ex. Barrier Island
Project Base Line
Original Project Baseline
Baseline Marked on Pavement
Chisel Cross
RAMP "C"
RAMP D
NOTE: Add 1200 To All Elevations Shown To Obtain Correct Datum.
LEGEND
Proposed 6' Bench
Proposed Boulder (See Sh. 2A)
Proposed 7" Plain Portland Cement Concrete Pavement
Proposed 4" Walk
Proposed Type 6 Conc. Curb
1" Type "K" Copper Water Line
Proposed Picnic Table Slab
Proposed Charcoal Grill Slab
Proposed Waste Receptacle Slab
Flush Box Hydrant (See note on Sh. 18)
NOTE: For Picnic Table and Grill slab removal, See Sh't. № 10
GRAPHIC SCALE
SCALE 1"=20'

PRE-70-2.80 SITE PLAN WESTBOUND

ESTIMATED QUANTITIES

ITEM	DESCRIPTION	QUANTITY
202	Sanitary Manhole Removed	1
Spec.	Snow Fence (For Tree Protection)	1412 L.F.
202	Elec. M.H. Removed	1 Ea.
201	Clearing and Grubbing	Lump
202	Structures Removed	Lump
202	Walk Removed	4374 S.F.
202	Curb Removed	384 L.F.
202	Catch Basin Removed	1 Ea.
202	Fence Removed	150 Lin.Ft.
Spec	Light Pole Removed	2 Each
Spec	Light Pole Foundation Removed	2 Each
Spec.	Incinerator & Conc. Slab Removed	1 Ea.
Spec.	Drilled Water Well Abandoned	1 Ea.
Spec.	Historical Marker, Removed & Reloc.	1 Ea.

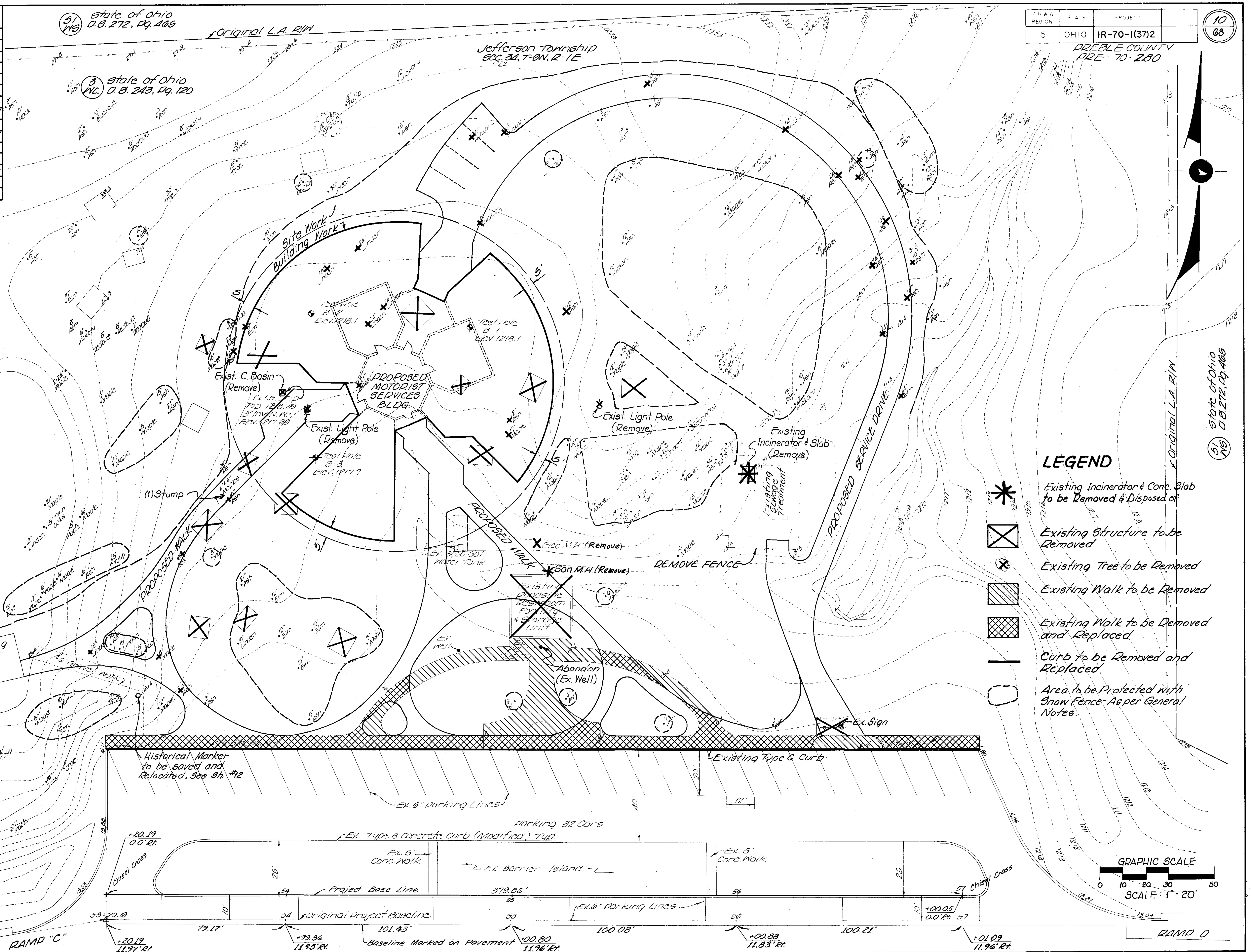
F.H.W.A. REGION	STATE	PROJECT
5	OHIO	IR-70-1(37)2

10/68

PREBLE COUNTY
PRE-70-2.80

NOTE: All work within the Limits of the Building and to 5 feet Beyond the Limits of the Building Shall be Paid for with the Building.

NOTE: Add 1200 To All Elevations Shown To Obtain Correct Datum.



State of Ohio D.B. 272, Pg. 465
Original L.A. R/W
Jefferson Township Sec. 34, T-9N, R-1E
State of Ohio D.B. 243, Pg. 120
Site Work
Building Work
PROPOSED MOTORIST SERVICES BLDG.
Exist. C. Basin (Remove)
Exist. Light Pole (Remove)
Existing Incinerator & Slab (Remove)
Elec. M.H. (Remove)
San. M.H. (Remove)
REMOVE FENCE
PROPOSED WALK
PROPOSED SERVICE DRIVE
(1) Stump
Existing Shelter House
Abandon (Ex. Well)
Ex. Sign
Historical Marker to be saved and Relocated, See Sh. #12
Existing Type 6 Curb
Ex. 6" Parking Lines
Parking 32 Cars
Ex. Type 6 Concrete Curb (Modified) Typ.
Ex. 5' Conc. Walk
Ex. Barrier Island
Project Base Line
Original Project Baseline
Baseline Marked on Pavement
Chisel Cross
RAMP "C"
RAMP D
LEGEND
Existing Incinerator & Conc. Slab to be Removed & Disposed of
Existing Structure to be Removed
Existing Tree to be Removed
Existing Walk to be Removed
Existing Walk to be Removed and Replaced
Curb to be Removed and Replaced
Area to be Protected with Snow Fence As per General Notes.
GRAPHIC SCALE
SCALE: 1" = 20'

PRE-70-2.80 DEMOLITION PLAN WESTBOUND

F.H.W.A. REGION	STATE	PROJECT	
5	OHIO	IR-70-1(37)2	11/68

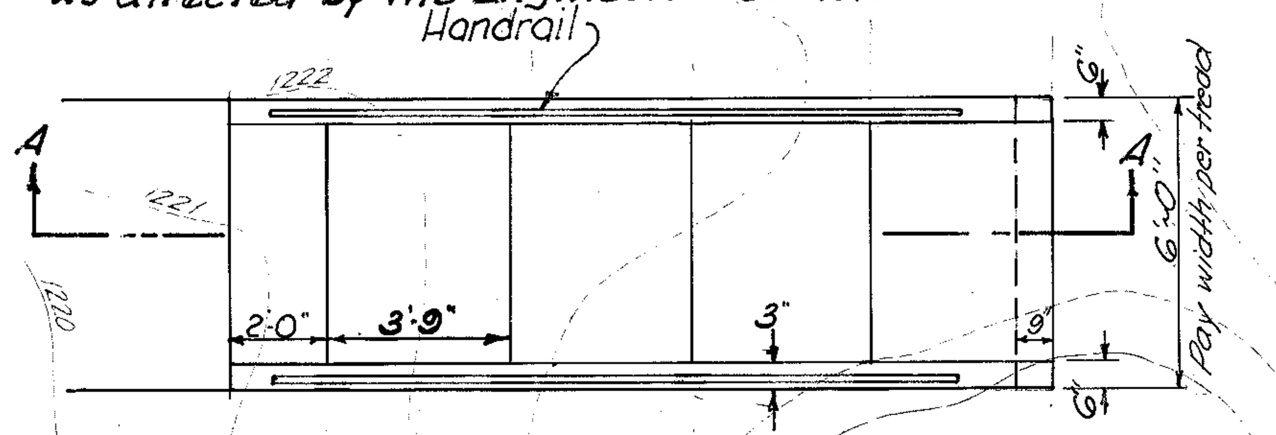
PREBLE COUNTY
PRE-70-2.80

ESTIMATED QUANTITIES

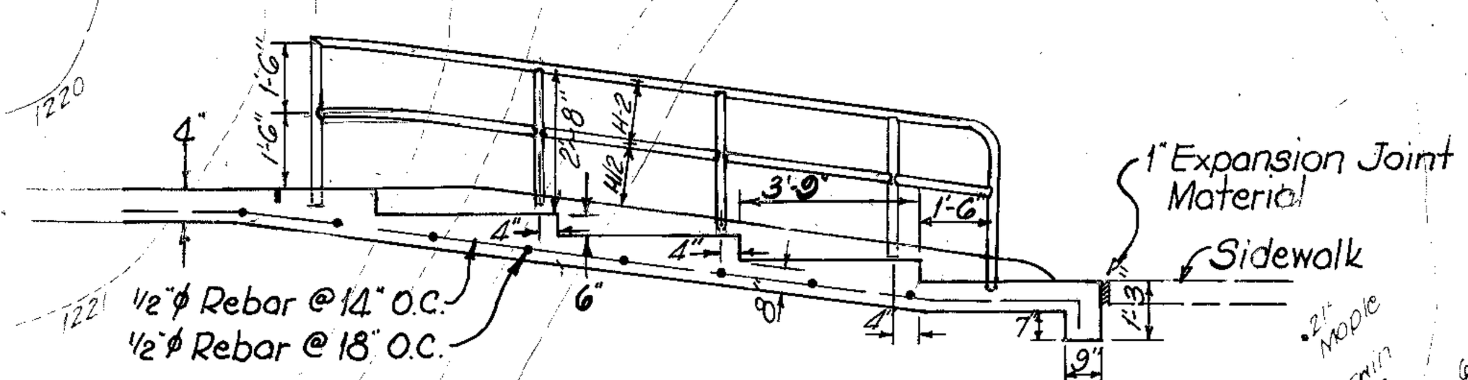
Item No	Description	Quantity
602	Concrete Masonry	0.65 C.Y.
601	Rock Channel Protection Type "B" w/Filter Fabric	1.8 C.Y.
603	12" Conduit, Type "C" 706.01, 706.02, 706.08	462 L.F.
603	15" Conduit, Type "C" 706.01, 706.02, 706.08	48 L.F.
604	Std. No 3 Manhole w/ Flat Slab Top	1 Ea.
604	Std. 2-2-B Catch Basin	5 Ea.
603	3" Conduit, Type "C", 706.08	130 L.F.
608	Conc. Steps, Std. type A, Mod as per plan	30 L.F.
*659	Seeding and Mulching	3,695 S.Y.
*659	Commercial Fertilizer	0.76 Ton
*660	Sodding, As Per Plan	4,735 S.Y.
*653	Topsoil furnished and placed	703 C.Y.

NOTE: The 12"-30° bend shown on the 85' span of 12" Type "C" Conduit between Sta. 54+63, 304.5' Lt. and Sta. 55+26.2, 251.3' Lt. is to be included with the linear foot cost for the conduit.

* Seeding, sodding and topsoil, furnished and placed as directed by the Engineer. See note on sheet No. 2A.



PLAN



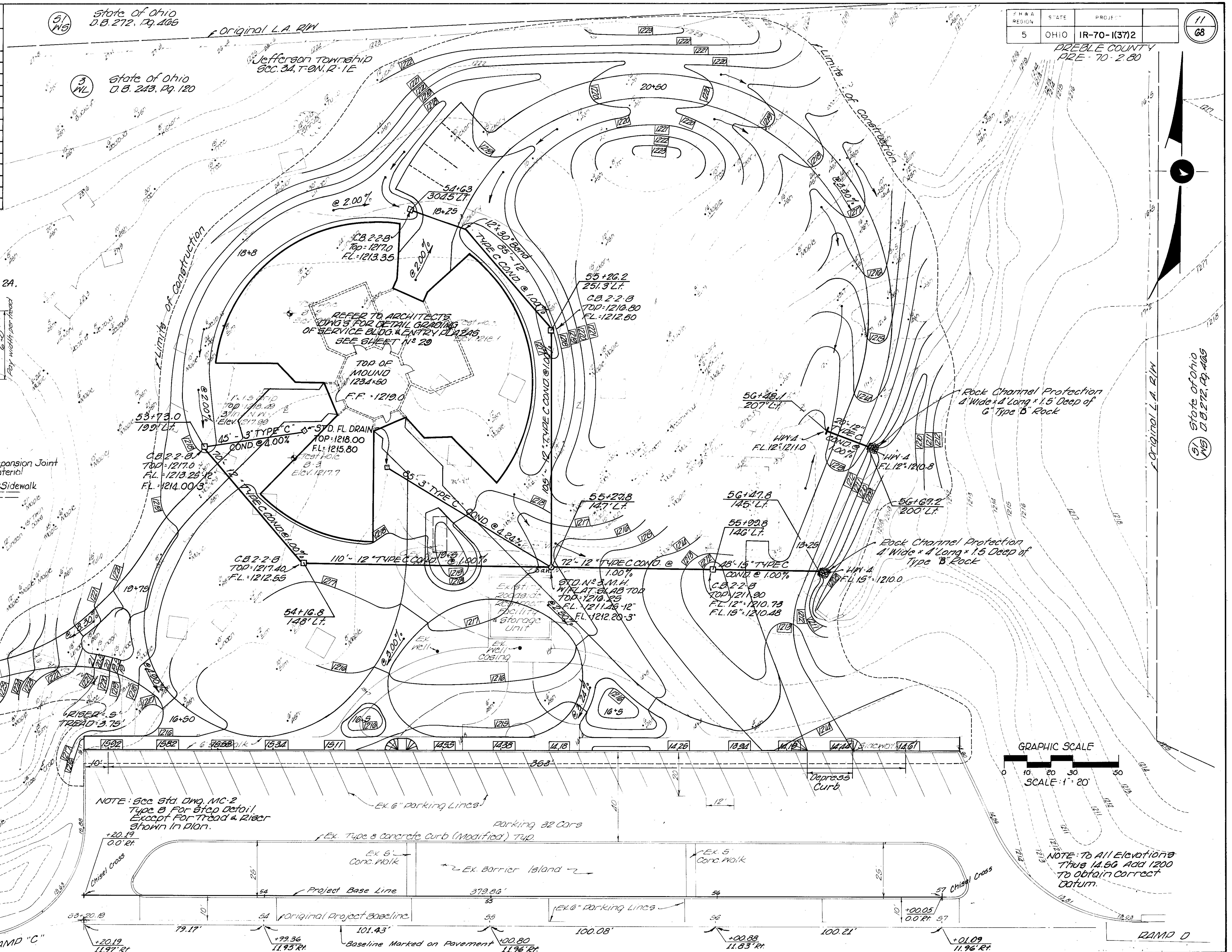
SECTION "AA"

CONCRETE STEPS DETAIL

EXCAVATION QUANTITIES

EXCAVATION	1,478 C.Y.
EMBANKMENT	1,710 C.Y.

FOR CONTRACTORS INFORMATION ONLY



PRE.- 2.80 GRADING PLAN WEST BOUND

PRE. 2.80 LAYOUT PLAN WEST BOUND

PRE.-70-2.80 LANDSCAPING PLAN WEST BOUND

F.H.W.A. REGION	STATE	PROJECT	
5	OHIO	IR-70-1(371)2	

14
68

PREBLE COUNTY
PRE-70-2.80

LIST OF PLANT MATERIALS

KEY	QUANTITY	SCIENTIFIC NAME	COMMON NAME	SIZE	CONDITION
AR	3	Acer Rubrum 'Autumn Flame'	Autumn Flame, Red Maple	2½"-3" Cal	B & B 32"
CV	11	Crataegus Viridis "Winter King"	Winter King Hawthorn	1¾"-2" Cal.	B & B 24"
JC	95	Juniperus Chinensis "Sea Green"	Sea Green Juniper	24"-30" Sp.	B & B 14" or No. 5 Cont.
PA-A	7	Picea Abies	Norway Spruce	5'-6' Ht.	B & B 22"
PA-B	21	Picea Abies	Norway Spruce	6'-7' Ht.	B & B 24"
PM-1A	7	Pseudotsuga Menziesii	Douglas Fir	5'-6' Ht.	B & B 22"
PM-1B	9	Pseudotsuga Menziesii	Douglas Fir	6'-7' Ht.	B & B 24"
QI	5	Quercus Imbricaria	Shingle Oak	2½"-3" Cal.	B & B 32"
QR	4	Quercus Rubra Maxima	Eastern Red Oak	2½"-3" Cal.	B & B 32"
TM	6	Taxus Media Wardii	Wards Yew	18"-24" Spread	B & B 12"
VC	14	Viburnum Chenaulti	Chenault Viburnum	2½"-3' HT	B & B 12"
●	105	Hemerocallis Species	Day Lily (Red & Yellow colors)	2 year	Clumps or Pots
|||||	1405	Vinca Minor	Common Periwinkle	1 year Bundle	Flats
	5	*Acer rubrum 'Scarlet Sentinel'	Scarlet Sentinel Red Maple	2½-3" Cal.	B & B 32"
	125	*Euonymus alatus 'compacta'	Compact Winged Euonymus	2½-3' HT.	B & B 12"

* Location not shown on sheet 13. Location of planting to be as directed by the Engineer.

N2343

PRE.-2.80 LANDSCAPING SUMMARY WEST BOUND

PRE-70-2.80 UTILITIES WESTBOUND

SUB SUMMARY

COMPUTED BY J. C. E. DATE 12-17-82
CHECKED BY P. W. G. DATE 12-20-82

FHWA REGION	STATE	PROJECT	
5	OHIO	IR-70-1(372)	

PREBLE COUNTY
PRE-70-2.80

10
68

ITEM	FROM SHEET NUMBER	ITEM	TOTAL	UNIT	DESCRIPTION
Sp'l	1	Sp'l	1	Each	Water Well Assembly, (Electrical Work Only)
Sp'l	1	Sp'l	1	Each	Water Well System Hypochlorinator (Electrical Work Only)
Sp'l	620	Sp'l	620	Lin.Ft.	Plastic Coution Tape
Sp'l	1	Sp'l	1	Each	Water Reservoir Assembly (Electrical Work Only)
Sp'l	1	Sp'l	1	Each	Cleaning Well
Sp'l	1	Sp'l	1	Each	Water Well Assembly (Except Electrical Work)
Sp'l	1	Sp'l	1	Each	Water System Hypoclorinator (Except Electrical Work)
Sp'l	1	Sp'l	1	Each	Water Reservoir Assembly, (Plumbing Only)
625	208	625	215	Lin.Ft.	3" Conduit, 713.04 (Electric)
625	2131	625	2131	Lin.Ft.	2" Conduit, 713.04 (Electric)
625	752	625	752	Lin.Ft.	2" Conduit, 713.04 (Telephone)
625	1233	625	1233	Lin.Ft.	4" Conduit, 713.07 (Primary)
625	6	625	6	Each	Pullbox, Concrete 24"
625	744	625	744	Lin.Ft.	Trench, 36" As Per Plan (Primary & Telephone) (Secondary & Telephone)
625	126	625	126	Lin.Ft.	N°4 AWG, RHH/RHW, Use 600 Volt Dristribution Cable
625	369	625	369	Lin.Ft.	3-1/C 500MCM, UL Type Use 600 Volt Secondary Feeder Cable
625	1918	625	1918	Lin.Ft.	Trench
625	16	625	16	Each	Connector Kit Type II
625	16	625	16	Each	Ground Rod
625	224	625	224	Lin.Ft.	N° 4 AWG Pole and Bracket Cable
625	20	625	20	Each	Cable Splicing Kit
625	1	625	1	Each	Pullbox, Concrete 48", Modified as per Plan
625	765	625	765	Lin.Ft.	N°4/0 AWG RHH/RHW-USE 600 Volt Distribution Cable
Sp'l.	1	Sp'l.	1	Each	Ground Rod (Installation Only)
625	5	625	5	Each	Light Pole Foundation
625	1	625	1	Each	Control Center
625	120	625	120	Lin.Ft.	4" Conduit 713.04 (Secondary)
625	7	625	7	Each	Luminaire, 150W HPS, Type V Light Distribution
625	1	625	1	Each	Luminaire, 150W HPS, Type III Light Distribution
625	5	625	5	Each	Light Pole, 14 Foot Mounting Height
Sp'l.	1	Sp'l.	1	Each	Concrete Transformer Pad
Sp'l	192	Sp'l	192	Lin.Ft.	Plumbing Contract - Cold Water Service to Waste Treatment Plant
Sp'l.	1	Sp'l.	1	Each	3/4 Frost Proof Hydrant
Sp'l.	1	Special	1	Each	Revamping Existing 10,000 gal. Steel Underground Reservoir Tank (Electrical Work Only)
Sp'l.	1	Special	1	Each	Revamping Exist. 10,000 gal steel underground Reservoir Tank (Plumbing Work Only)
Sp'l.	1	Special	1	Each	Revamping Exist. Wastewater Treatment System (General Work Only)
Sp'l.	1	Special	1	Each	Revamping Exist. Wastewater Treatment System (Plumbing Work Only)
Sp'l.	1	Special	1	Each	Revamping Exist. Wastewater Treatment System (Electrical Work Only)
625	10	625	10	Each	Pull Box, Concrete 24" 713.09 (Electric)
625	2354	625	2354	Lin.Ft.	No. 10 AWG, Pull Wire, 625.13
625	5091	625	5091	Lin.Ft.	NO. 4 AWG, U.L. TYPE MV-90 DRY, 713.02, 5000 Volt Distribution Cable
625	3052	625	3052	Lin.Ft.	3ZIA, 18 Ga., 41 Strand, Copper, Insulated, Single Conductor (Lev. Contr.)
625	2541	625	2541	Lin.Ft.	No. 10 AWG, RHH/RHW-USE, 600 Volt Distribution Cable
625	30	625	30	Lin.Ft.	1" Conduit, 713.04 (Electric)
625	22	625	22	Lin.Ft.	2½" Conduit, 713.04 (Electric)
625	3	625	3	Each	Brundy, Copper, Terminal Cable Lug Connectors
605	340	605	340	Lin.Ft.	4" Shallow Pipe Underdrains
839	LUMP	839	LUMP		High Voltage Test
Sp'l.	35	Special	35	Lin.Ft.	16" Schedule 40 Galv. Steel Pipe Sleeve, in place

SUB SUMMARY

F.H.W.A. REGION	STATE	PROJECT	
5	OHIO	IR-70-1(37)2	

17
68

PREBLE COUNTY
PRE.-70-2.80

CABLE CONNECTIONS AND SPLICING KITS

THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL REQUIRED CABLE CONNECTIONS AS SPECIFIED CMS 625.17. APPROVED CABLE SPLICING KIT MATERIALS USED IN PULL BOXES SHALL BE AS SPECIFIED IN CMS 713 "LIGHTING AND ELECTRICAL MATERIALS".

THE ELECTRICAL CONTRACTOR SHALL INSTALL A 2" CONDUIT AS PER 713.04 FROM THE TRANSFORMER PAD TO THE METER SOCKET. THE CONTRACTOR MUST INSTALL THIS TO MEET DAYTON POWER & LIGHT COMPANY'S APPROVAL PRIOR TO THEIR SETTING THE METER. ANY MODIFICATIONS TO THIS METHOD REQUESTED BY DAYTON POWER & LIGHT COMPANY SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

(1) EXISTING ELECTRICAL SERVICE DROP POLE AND METER LOCATION WITH TELEPHONE SERVICE. THE DAYTON POWER & LIGHT COMPANY AND UNITED TELEPHONE COMPANY SHALL REMOVE ANY EQUIPMENT NECESSARY FROM THE EXISTING SERVICE POLE AND INSTALL ALL EQUIPMENT NECESSARY TO PROVIDE A CONDUIT DROP AT THE EXISTING SERVICE POLE. UNITED TELEPHONE COMPANY SHALL PROVIDE THE TELEPHONE CABLE FROM THE SERVICE POLE TO THE TELEPHONE CABINET. DAYTON POWER & LIGHT COMPANY SHALL PROVIDE THE PRIMARY CONDUCTORS FROM THE SERVICE POLE TO THE PAD MOUNTED TRANSFORMER. THE SECONDARY POWER SHALL PROVIDE 240 VOLTS, 600 AMP, SINGLE PHASE, 3-WIRE ELECTRIC SERVICE TO THE MOTORISTS SERVICES BUILDING. THE PAD MOUNTED TRANSFORMER SHALL BE A 100 KVA TRANSFORMER.

(2) 2 - 4" CONDUITS AS PER 713.07 (ELECTRICAL SERVICE, PRIMARY). ONE CONDUIT IS TO BE A SPARE WITH A NO. 10 PULL WIRE IN IT. CONDUCTORS WILL BE FURNISHED AND INSTALLED BY THE DAYTON POWER AND LIGHT COMPANY *IN OTHER CONDUIT. FURNISH NO.10 PULL WIRE IN BOTH CONDUITS.*

(2A) 2 - 4" CONDUITS AS PER 713.04 (ELECTRICAL SERVICE, SECONDARY). ONE CONDUIT IS TO BE A SPARE WITH A NO. 10 PULLWIRE IN IT. ONE CONDUIT WITH THREE NO. 500 MCM. TYPE RHH/RHW-USE CONDUCTORS.

(3) 1 - 2" CONDUIT AS PER 713.04 WITH NO. 10 PULL WIRE (TELEPHONE).

(4) 1 - 2" CONDUIT AS PER 713.04 WITH THREE NO. 4 AWG, *U.L. TYPE MV-90 DRY, 5000 V., 713.02* CONDUCTORS (PROPOSED AREA CIRCUIT "B") 240 VOLT, 1-PHASE, 60 HZ CIRCUIT.

(5) 1 - 3" CONDUIT AS PER 713.04 WITH THREE NO. 4/0 AWG *TYPE RHH/RHW-USE* CONDUCTORS (TO EXISTING TREATMENT PLANT) 240 VOLT, 1-PHASE, 60 HZ CIRCUIT.

(6) 2 - 2" CONDUIT AS PER 713.04 WITH THREE NO. 4 AWG, *U.L. TYPE MV-90 DRY, 5000 V., 713.02* CONDUCTORS (PROPOSED AREA CIRCUIT "A" AND EXISTING RAMP LIGHT CIRCUIT "C") 240 VOLTS, 1-PHASE, 60 HZ.

(7) 1 - 3" *EXISTING CONDUIT* WITH THREE NO. 4 AWG, *U.L. TYPE MV-90 DRY, 5000 V., 713.02* CONDUCTORS (EXISTING RAMP LIGHT CIRCUIT "C") 240 VOLT, 1-PHASE 60 HZ CIRCUIT.

(8) MAKE SPLICES WITH SPLICE KITS AS NECESSARY TO CONNECT THE THREE NO. 4 AWG CONDUCTORS NOTED IN NO. 7 TO THE EXISTING RAMP LIGHT CIRCUIT IN THIS PULL BOX (STA. 55+46.5 134.5' LT.).

(9) 1 - 2" CONDUIT AS PER 713.04 WITH THREE NO. 4 AWG, *U.L. TYPE MV-90 DRY, 5000 V., 713.02* CONDUCTORS (PROPOSED AREA CIRCUIT "A") 240 VOLT, 1-PHASE, 60 HZ CIRCUIT.

(10) 1 - 2" CONDUIT AS PER 713.04 WITH EIGHT *3Z1A, 18 GA., 41 STRAND, COPPER, INSL., SINGLE* CONDUCTORS TO THE EXISTING RESERVOIR. *(4-ACTIVE, 4-SPARE)*

(11) 1 - 2" CONDUIT AS PER 713.04 WITH THREE NO. 10 AWG TYPE RHH/RHW-USE CONDUCTORS (TO EXISTING WELL) 240 VOLT, 1-PHASE, 60 HZ CIRCUIT AND FOUR NO. *3Z1A, 18 GA., 41 STRAND, COPPER, INSL., SGL.* FOR WELL LEVEL CONTROLS (2 AS A SPARE, *2-ACTIVE*)

(12) 1-2" CONDUIT AS PER 713.04 WITH NO. 10 PULL WIRE. RUN FROM ROADWAY LIGHT CONTROLLER TO PULL BOX (PB-BA3) AND CAP. (FOR FUTURE AREA CIRCUIT "D").

(13) 1-2" CONDUIT AS PER 713.04 WITH SIX NO. 10 AWG TYPE RHH/RHW-USE CONDUCTORS TO RESERVOIR PUMPS LOCATED ADJACENT TO UNDERGROUND RESERVOIR TANK (TOTAL OF TWO PUMPS). FROM PULL BOX RUN 2"1" CONDUITS AS PER 713.04 WITH THREE NO. 10 AWG TYPE RHH/RHW-USE CONDUCTORS SHALL SEPARATELY FEED TO EACH SUBMERSIBLE RESERVOIR PUMP 240 VOLT, 1-PHASE, 3-WIRE, 60 HZ CIRCUIT.

(14) 1-2" CONDUIT AS PER 713.04 WITH *THREE* NO. 4 AWG, *U.L. TYPE MV-90 DRY, 5000 V., 713.02* CONDUCTORS (PROPOSED CIRCUIT FOR OUTSIDE PAY TELEPHONES) *WIRE FOR 120 VOLT*, 1-PHASE, 3-WIRE, 60 HZ CIRCUIT. *TERMINATE 3RD. CONDUCTOR IN PULL BOX (PB-BB4). FURNISH AND INSTALL GROUND ROD AND CABLE ADJACENT TO PHONE BOOTHS.*

(15) *2-2" CONDUITS AS PER 713.04 WITH THREE NO.4 AWG, U.L. TYPE MV-90 DRY, 5000 V. CONDUCTORS (PROPOSED AREA CIRCUIT "B" AND EXISTING RAMP LIGHT CIRCUIT "B") 240 VOLT, 1-PHASE, 60 HZ. CIRCUIT.*

(16) *1-2½" CONDUIT AS PER 713.04 WITH THREE NO.4 AWG, TYPE RHH/RHW-USE CONDUCTORS (PROVIDE SPLICE KITS IN PULL BOX TO JOIN NO.4/0 CONDUCTORS TO NO.4 CONDUCTORS.) 240 VOLT, 1-PHASE, 60 HZ. BRANCH FEED TO WASTE TREATMENT CONTROL PANEL. PROVIDE LUGS AND MAKE CONNECTIONS TO TERMINALS IN CONTROL PANEL AS REQUIRED.*

(17) *1-2" CONDUIT AS PER 713.04 WITH NO. 10 PULL WIRE FROM TRANSFORMER PAD TO METER SOCKET MOUNTED ON EXTERIOR WALL. (INSTALL AS DIRECTED BY THE ELECTRIC UTILITY CO.)*

(18) *1-2" CONDUIT AS PER 713.04 WITH NO. 10 PULL WIRE FROM ELECTRIC METER SOCKET ON EXTERIOR WALL TO C/T CABINET INSIDE BUILDING. (INSTALL AS DIRECTED BY THE ELECTRIC UTILITY CO.)*

TRANSFORMER PAD NOTES

1.) TRANSFORMER MUST BE ACCESSIBLE FROM THE FRONT OF THE PAD. AREA ABOVE AND 10' IN FRONT OF THE INSTALLATION MUST BE FREE OF ANY PERMANENT OBSTRUCTIONS.

2.) IF PAD IS LOCATED IN AREA OF VEHICULAR TRAFFIC, THEN PROTECTION POSTS MUST BE PROVIDED, 3'0" MIN. HEIGHT. LOCATIONS SHALL BE SPECIFIED BY DAYTON POWER AND LIGHT ENGINEER TO INSURE ACCESS TO TRANSFORMER. ALL EXCEPTIONS TO THIS RULE MUST BE APPROVED BY THE DP&L CO. ENGINEERING IN WRITING.

THE POSTS SHALL BE EITHER R.R. RAILS SET IN CONCRETE OR 4" STEEL POSTS FILLED WITH CONCRETE.

3.) ALL CONCRETE WORK SHALL CONFORM TO SPECIFICATIONS AND STANDARD PRACTICES OF AMERICAN CONCRETE INSTITUTE.

4.) CONCRETE USED FOR PAD SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3500 PSI. IF PAD IS TO BE POURED ON SITE, A 6" THICKNESS OF NON-REINFORCED DESIGN IS ACCEPTABLE. ANY OTHER SUBSTITUTIONS MUST EITHER MEET OR EXCEED THE ABOVE STANDARD AS SHOWN.

5.) ALL REINFORCING BAR SHALL BE #2-40,000 PSI YIELD.

6.) ALL ANCHORED FITTINGS ARE FEMALE *(3 REQUIRED), 1/2" X 1-1/2", 13 THREADS PER INCH.

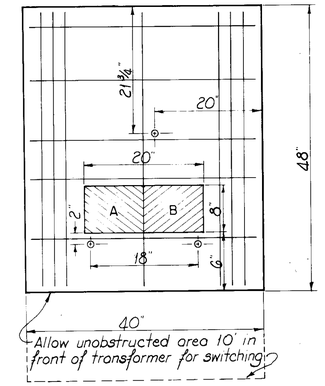
7.) THE DP&L CO. WILL FURNISH LUGS, BOLTS AND MISCELLANEOUS MATERIAL AS WELL AS LABOR AND MAKE THE PRIMARY AND SECONDARY CONNECTIONS AT THE TRANSFORMER TERMINALS.

8.) DP&L WILL FURNISH AND THE CUSTOMER WILL INSTALL A 5/8" X 10' COPPER WELD GROUND ROD.

9.) THE SECONDARY OF SERVICE WIRING SHALL EXTEND AT LEAST 6'-6" ABOVE THE TOP OF THE PAD.

NOTE:

THE ELECTRICAL CONTRACTOR SHALL EXTEND THE THREE CONDUCTORS, INCLUDING THE NEUTRAL GROUND CONDUCTOR, TO ALL AREA LIGHTING WITHIN THE CONFINES OF THE ROADSIDE REST AREA, AS REQUIRED, AND MAKE GROUND CONNECTIONS AS DETAILED ON STANDARD CONSTRUCTION DRAWING HL-9, DETAIL "B" FOR 120/240 VOLTS, THREE WIRE GROUNDED NEUTRAL. THE COMPRESSION CONNECTOR AND APPURTENANCES SHALL BE FURNISHED AND INSTALLED TO THE POLE BASE TO ASSURE PROPER GROUNDING. THE RAMP LIGHTS SHALL REMAIN GROUNDED AS ORIGINALLY INSTALLED, BY GROUND CABLE AND GROUND ROD AT BASE OF POLES. THE NEW NEUTRAL GROUND NEED NOT FEED TO THESE LIGHTS. THE LIGHTS IN THE PARKING MEDIAN SHALL HAVE THE NEUTRAL GROUND CONNECTOR EXTEND TO ALL OF THE LIGHT POLES IN THE MEDIAN AND WIRED AS PER STANDARD DRAWING HL-9.



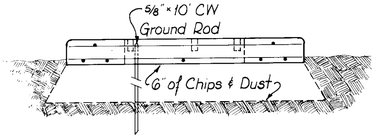
Pad location must be verified and approved by D.P.&L. Co. Distribution Engineering Department. A gravel filled pit may be required below pad.

A minimum space must be maintained on each side and rear of pad.

For upright transformers:
Area "A" is for Primary Cables
Area "B" is for Secondary Cables

Low Profile transformers:
Area "A" is for Secondary Cable
Area "B" is for Primary Cable

If ground below pad is disturbed or is not level, a 6" deep, 3'-6" x 4'-6" area is to be excavated, filled with chips & dust and tamped well by the party installing the pad.



TRANSFORMER PAD DETAIL

NO SCALE

FED. RD. DIVISION	STATE	PROJECT	
5	OHIO	IR-70-1(37)2	

18
68

PREBLE COUNTY
PRE-70-2.80

Baseline Marked in Field
Original & Project Baseline

Existing Type B Concrete Curb (Mod.)

Existing Type & Concrete Curb (Mod.)

P.C. Sta. 49+32.20
R. 75 to E.P.
Δ - 6°
T - 46.87'

+34.01
10' Rt.

+53.27
10' Rt.

+73.07
15' Rt.

Section Line

PROPOSED HANDICAPPED PARKING

Proposed Type G Concrete Curb

No. 2-14 Median Inlet
+52.27 - F/L 15" 1205.50'

1208.60
50' R to E.P.

H'wl & Endwall
F/L 1204.5'

+01.5
40' Rt.

depress curb

6' Sidewalk - 4" Thick

PROPOSED WALK

(See Std. Dwg. BP-12) Curb Ramp, Type 1

Curb Ramp, Type 1

TYPE 1 CURB RAMP

EXISTING MAINT. BLDG.

Ex. Sign

Ex. Elec Box

8' Wood Fence

Ex. 6" Well Casing

Ex. Elec. Box

Ex. Electric Box

Existing Well

10' Post

Phone

Sign

Planter

EXISTING DEST. ROOMS
F.L. ELEV
1213.02

Clean Out

PROPOSED DRIVE

Place 12' gate at drive.
Sta. 54+28
100' Rt.

Existing 3 C.L. Fence

Existing Incinerator & Slab

EXISTING SEWAGE TREATMENT

Existing Trash Trap

Sta. 54+28
150' Rt.

Proposed 6' Fence Type C.L.

Sta. 53+68
100' Rt.

Sta. 53+68
150' Rt.

PROPOSED SERVICE DRIVE

Sta. 49+39
173' Rt.
C.P.A.

Sta. 48+93
210' Rt.
C.P.A.

Sta. 48+93
352' Rt.
C.P.A.

Sta. 50+46.6
352' Rt.
C.P.A.

Sta. 50+46.6
330' Rt.
C.P.A.

Sta. 53+00.6
311' Rt.
C.P.A.

Sta. 53+00.6
330' Rt.
C.P.A.

2 WL State of Ohio D.B. 244, Pg. 39

PLAZA QUANTITIES ON SHEET Nº 39

PROPOSED MOTORIST SERVICES BUILDING

See detail of fountain on Sheet No. 50

PROPOSED PRECAST CONC. TILE ROUNDS
(As Specified on Sheet Nº 40)

EXISTING SHELTER HOUSE

To Remain

Ex. 10000 Gal Water Tank

4 WL State of Ohio D.B. 243, Pg. 683

30 WS-1 State of Ohio D.B. 290, Pg. 250

52 WS State of Ohio D.B. 276, Pg. 418

Proposed Type 47 RA Fence

Jackson Township
Sec. 4, T-8N, R-1E

Jackson Township
Sec. 3, T-8N, R-1E

R/W

Section Line

LEGEND

- 6' Wood Bench
- Proposed 7" Plain Portland Cement Concrete Pavement
- Proposed 4" Walk
- (B) Proposed Boulder (See Sh. 2A)
- Proposed Type G Conc. Curb
- —W— 1" Type "K" Copper Water Line
- C.P.A. Corner Post Assembly
- T Proposed Picnic Table Slab
- G Proposed Charcoal Grill Slab
- W Proposed Waste Receptacle Slab
- Flush Box Hydrant (See note this sheet)

ESTIMATED QUANTITIES

Item Nº	Description	Quantity
Sp'l	Waste Receptacle Slab	20 Ea.
Sp'l	Waste Receptacle Sleeve	20 Ea.
Sp'l	Picnic Table and Slabs	7 Ea.
Sp'l	Picnic Table	13 Ea.
Sp'l	Charcoal Grill and Serving Table	6 Ea.
Sp'l.	Motorist Services Bldg. (Electrical Only)	1 Ea.
Sp'l.	Motorist Services Bldg. (Plumbing Only)	1 Ea.
Sp'l.	Motorist Services Bldg. (Heat. & Vent.)	1 Ea.
Sp'l	1" Type "K" Copper Water Line & Hydrants	325 Lin. Ft.
Sp'l.	Motorist Services Bldg. (Except Elec., Plumbing, Heating & Ventilating)	1 Ea.
Sp'l.	Precast Conc. Tile Rounds	24 Ea.
Sp'l	6' Wood Bench	2 Ea.
452	7" Plain Portland Cement Conc. Pvmt.	634 S.Y.
608	4" Concrete Walk	8440 S.F.
609	Curb, Standard Type G	385 Lin. Ft.
608	Curb Ramp, Standard Type 1	3 Ea.
607	Fence, Type 47 RA	699 Lin. Ft.
607	Fence, Type CL. Mod. As Per Plan	168 Lin. Ft.
607	Gate, Type C.L. Mod. As Per Plan	1 Ea.
Sp'l.	Boulder	21 Ea.

△ - Flush box hydrant with Watts No. 8 vacuum breaker & Key. Murdock Cat. No. V477-3/4" bronze box and lid, with brass pipe, 4 ft. bury, anti-freezing. Approved equal by Wade, Josam or Zurn.

GRAPHIC SCALE
0 10 20 30 50
SCALE: 1" = 20'

NOTE: For Picnic Table and Grill Slab Removals See Sheet Nº 19

PRE.-70-2.80 SITE PLAN EAST BOUND

Baseline Marked in Field
Original & Project Baseline
Existing Type 8 Concrete Curb (Mod.)
Existing Type 8 Concrete Curb (Mod.)
6" Parking Lines
Section Line
PROPOSED SERVICE DRIVE
PROPOSED WALK
PROPOSED WALK
PROPOSED WALK
PROPOSED DRIVE
PROPOSED MOTORIST SERVICES BLDG.
EXISTING MAINT. BLDG.
REST ROOMS
EXISTING SHELTER HOUSE
PROPOSED PRECAST CONC. TILE ROUNDS
Existing Historical Marker to be saved and relocated See Sheet #21
Exist. Incinerator & Conc. Slab (Remove)
EXISTING SEWAGE TREATMENT
Remove Existing Fence
State of Ohio D.B. 244, Pg. 39
State of Ohio D.B. 290, Pg. 250
State of Ohio D.B. 243, Pg. 683
State of Ohio D.B. 276, Pg. 418
Jackson Township Sec. 4, T-8N, R-1E
Jackson Township Sec. 3, T-8N, R-1E
LEGEND
Incinerator & Concrete Pad to be Removed
Existing Structure to be Removed
Existing Tree to be Removed
Existing Walk to be Removed
(To Remain)
Existing Walk to be Removed and Replaced
Existing Curb to be Removed and Replaced
Area to be Protected with Snow Fence - As per General Notes.
GRAPHIC SCALE
0 10 20 30 50
SCALE: 1"=20'

ESTIMATED QUANTITIES

ITEM Nº	DESCRIPTION	QUANTITY
202	Sanitary Manhole Removed	2 Ea.
202	Electric Box Removed	2 Ea.
Spec.	Snowfence (For Tree Protection)	568 L.F.
Spec.	Historical Marker, Remove & Reloc.	1 Ea.
201	Clearing and Grubbing	Lump
202	Structures Removed	Lump
202	Walk Removed	4572 S.F.
202	Curb Removed	385 L.F.
202	Fence Removed	408 L.F.
Spec.	Light Pole Removed	1 Each
Spec.	Light Pole Foundation Removed	1 Each
Spec.	Incinerator & Conc. Slab Removed	1 Ea.
Spec.	Drilled Water Well Abandoned	1 Ea.

PRE.-70-2.80 DEMOLITION PLAN EAST BOUND

FED. RD. DIVISION	STATE	PROJECT	
5	OHIO	IR-70-1(37)2	

20/68

PREBLE COUNTY
PRE-70-2.80

* Seeding, sodding and topsoil, furnished and placed as directed by the Engineer. See note on sheet No. 2A.

(52 WS) State of Ohio O.B. 276, Pg. 418

EXCAVATION QUANTITIES

Excavation	700 C.Y.
Embankment	2,712 C.Y.

FOR CONTRACTORS INFORMATION ONLY

GRAPHIC SCALE
0 10 20 30 50
SCALE: 1" = 20'

ESTIMATED QUANTITIES

Item No	Description	Quantity
602	Concrete Masonry	0.20 C.Y.
601	Rock Channel Protection, Type "B" w/Filter	
	Fabric	0.90 C.Y.
603	12" Conduit, Type "B" 706.01, 706.02, 706.08	335 L.F.
604	Std. 2-2-B Catch Basin	3 Each
603	3" Conduit, Type "C", 706.08	108 L.F.
* 659	Seeding and Mulching	3,815 S.Y.
* 660	Sodding, As per Plan	3,275 S.Y.
* 659	Commercial Fertilizer	0.64 Ton
* 653	Topsoil furnished and placed	590 C.Y.

PRE.-70-2.80 GRADING PLAN EAST BOUND

PRE.-70-2.80 LAYOUT PLAN EAST BOUND

FED. RD. DIVISION	STATE	PROJECT	
5	OHIO	IR-70-1(37)2	

22
68

PREBLE COUNTY
PRE-70-2.80

PRE.-70-2.80 LANDSCAPING PLAN EAST BOUND

F.H.W.A. REGION	STATE	PROJECT	
5	OHIO	IR-70-1(371)2	

23
68

DREBLE COUNTY
PRE - 70 - 2.80

LIST OF PLANT MATERIALS

KEY	QUANTITY	SCIENTIFIC NAME	COMMON NAME	SIZE	CONDITION
AR	8	Acer Rubrum 'Autumn Flame'	Autumn Flame, Red Maple	2½"-3" CAL.	B & B 32"
CV	6	Crataegus Viridis "Winter King"	Winter King Hawthorn	1¾"-2" CAL.	B & B 24"
JC	127	Juniperus Chinensis 'Sea Green"	Sea Green Juniper	24"-30" Sp.	B & B 14" or No. 5 Cont.
PA-A	10	Picea Abies	Norway Spruce	5'-6' HT.	B & B 22"
PA-B	13	Picea Abies	Norway Spruce	6'-7' HT.	B & B 24"
PM-1A	3	Pseudotsuga Menziesii	Douglas Fir	5'-6' HT.	B & B 22"
PM-1B	5	Pseudotsuga Menziesii	Douglas Fir	6'-7' HT.	B & B 24"
QI	8	Quercus Imbricaria	Shingle Oak	2½"-3" CAL	B & B 32"
QR	5	Quercus Rubro Maxima	Eastern Red Oak	2½"-3" CAL	B & B 32"
TM	13	Taxus media wardii	Wards Yew	18"-24" Spread	B & B 12"
VC	11	Viburnum Chenaulti	Chenault Viburnum	2½'-3 Spread	B & B 12"
●	150	Hemerocallis	Day Lily (Red & Yellow colors)	2 year	Clumps or Pots
|||||	1535	Vinca Minor	Common Periwinkle	1 year Bundle	Flats
	50	* Euonymus alatus 'compacta'	Compact Winged Euonymus	2½'-3' HT.	B & B 12"

* Location not shown on sheet 22. Location of planting to be as directed by the Engineer.

N2582

PRE-70-2.80 LANDSCAPING SUMMARY EAST BOUND

PRE.-70-2.80 UTILITIES EAST BOUND

SUB SUMMARY

COMPUTED BY J. E. C. DATE 12-17-82
CHECKED BY P. W. G. DATE 12-20-82

FHWA REGION	STATE	PROJECT	
5	OHIO	IR-70-1(371)2	

PREBLE COUNTY
PRE-70-2.80

25
68

ITEM	FROM SHEET NUMBER	ITEM	TOTAL	UNIT	DESCRIPTION
Sp'l	1	Sp'l	1	Each	Water Well Assembly, (Electrical Work Only)
Sp'l	1	Sp'l	1	Each	Water System Hypochlorinator, (Electrical Work Only)
Sp'l	270	Lin.Ft.	270		Plastic Coution Tape, Complete and in place
Sp'l	1	Sp'l	1	Each	Water Reservoir Assembly, (Electrical Work Only)
Sp'l	1	Sp'l	1	Each	cleaning Well
Sp'l	1	Sp'l	1	Each	Water Well Assembly (Except Electrical Work)
Sp'l	1	Sp'l	1	Each	Water System Hypoclorinator (Except Electrical Work)
Sp'l	1	Sp'l	1	Each	Water Reservoir Assembly, (Plumbing Only)
625	502	625	502	Lin.Ft.	3" Conduit, 713.04 (Electric)
625	2501	625	2,501	Lin.Ft.	2" Conduit, 713.04 (Electric)
625	600	625	600	Lin.Ft.	2" Conduit, 713.04 (Telephone)
625	570	625	570	Lin.Ft.	4" Conduit, 713.07 (Primary)
625	4	625	4	Each	Pullbox, Concrete 24," 713.09 (Telephone)
625	735	625	735	Lin.Ft.	Trench, 36" As Per Plan (Primary & Telephone) (Secondary & Telephone)
625	1089	625	1,089	Lin.Ft.	N°4 AWG, RHH/RHW, Use 600 Volt Dristribution Cable
625	240	625	240	Lin.Ft.	3-1/C 600 MCM, UL Type Use 600 Volt Secondary Feeder Cable
625	2151	625	2151	Lin.Ft.	Trench
625	14	625	14	Each	Connector Kit Type II
625	19	625	19	Each	Ground Rod
626	196	625	196	Lin.Ft.	No. 4 AWG Pole and Bracket Cable
625	33	625	33	Each	Cable Splicing Kit
Sp'l.	1	Sp'l.	1	Each	Concrete Transformer Pad
625	1866	625	1,866	Lin. Ft.	N°4/0 AWG RHH/RHW USE 600 Volt Distribution Cable
Sp'l.	1	Sp'l.	1	Each	Ground Rod (Installation Only)
625	3	625	3	Each	Light Pole Foundation
625	1	625	1	Each	Control Center
625	120	625	120	Lin.Ft.	4" Conduit, 713.04 (Secondary)
625	6	625	6	Each	Luminaire, 150W HPS, Type V Light Distribution
625	1	625	1	Each	Luminaire, 150 W HPS, Type III Light Distribution
625	3	625	3	Each	Light Pole, 14 Foot Mounting Height
Sp'l	536	Sp'l	536	Lin. Ft.	Plumbing Contract-Cold Water Service to Waste Treatment Plant
Sp'l.	1	Sp'l.	1		3/4" Frost Proof Hydrant
Sp'l.	1	Special	1	Each	Revamping Existing 10,000 gal. Steel Underground Reservoir Tank (Electrical Work Only)
Sp'l.	1	Special	1	Each	Revamping Exist. 10,000 gal. steel underground Reservoir Tank (Plumbing Work Only)
Sp'l.	1	Special	1	Each	Revamping Exist. Wastewater Treatment System (General Work Only)
Sp'l.	1	Special	1	Each	Revamping Exist. Wastewater Treatment System (Plumbing Work Only)
Sp'l.	1	Special	1	Each	Revamping Exist. Wastewater Treatment System (Electrical Work Only)
625	1	625	1	Each	Pull Box, Concrete 48", Modified, as per Plan
625	17	625	17	Each	Pull Box, Concrete 24", 713.09 (Electric)
625	1417	625	1,417	Lin.Ft.	NO. 10 AWG, Pull Wire, 625.13
605	440	605	440	Lin.Ft.	4" Shallow Pipe Underdrains
625	6615	625	6,615	Lin.Ft.	NO. 4 AWG, U.L. TYPE MV-90 DRY, 713.02, 5000 Volt Distribution Cable
625	4380	625	4,380	Lin.Ft.	3ZIA, 18 Ga., 41 Strand, Copper, Insulated, Single Conductor (Level Contr.)
625	2304	625	2,304	Lin.Ft.	No. 10 AWG, RHH/RHW-USE, 600 Volt Distribution Cable
625	40	625	40	Lin.Ft.	1" Conduit, 713.04 (Electric)
625	20	625	20	Lin.Ft.	2 1/2" Conduit, 713.04 (Electric)
625	3	625	3	Each	Brundy, Copper, Terminal Cable Lug Connectors
839	LUMP	839	LUMP		High Voltage Test
Sp'l.	30	Special	30	Lin.Ft.	20" Schedule 40 Galv. Steel Pipe Sleeve, in place

SUB SUMMARY

F.H.W.A. REGION	STATE	PROJECT	
5	OHIO	IR-70-1(37)2	

26
68

PREBLE COUNTY
PRE.-70-2.80

CABLE CONNECTIONS AND SPLICING KITS

THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL REQUIRED CABLE CONNECTIONS AS SPECIFIED CMS 625.17. APPROVED CABLE SPLICING KIT MATERIALS USED IN PULL BOXES SHALL BE AS SPECIFIED IN CMS 713 "LIGHTING AND ELECTRICAL MATERIALS".

THE ELECTRICAL CONTRACTOR SHALL INSTALL A 2" CONDUIT AS PER 713.04 FROM THE TRANSFORMER PAD TO THE METER SOCKET. THE CONTRACTOR MUST INSTALL THIS TO MEET DAYTON POWER & LIGHT COMPANY'S APPROVAL PRIOR TO THEIR SETTING THE METER. ANY MODIFICATIONS TO THIS METHOD REQUESTED BY DAYTON POWER & LIGHT COMPANY SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AT NO ADDITIONAL COST TO THE CONTRACT.

(1) EXISTING ELECTRICAL SERVICE DROP POLE AND METER LOCATION WITH TELEPHONE SERVICE. THE DAYTON POWER & LIGHT COMPANY AND UNITED TELEPHONE COMPANY SHALL REMOVE ANY EQUIPMENT NECESSARY FROM THE EXISTING SERVICE POLE AND INSTALL ALL EQUIPMENT NECESSARY TO PROVIDE A CONDUIT DROP AT THE EXISTING SERVICE POLE. UNITED TELEPHONE COMPANY SHALL PROVIDE THE TELEPHONE CABLE FROM THE SERVICE POLE TO THE TELEPHONE CABINET. DAYTON POWER & LIGHT COMPANY SHALL PROVIDE THE PRIMARY CONDUCTORS FROM THE SERVICE POLE TO THE PAD MOUNTED TRANSFORMER. THE PAD MOUNTED TRANSFORMER SHALL BE RATED AT 100 KVA AND SHALL PROVIDE 240 VOLT, 600 AMP, 3-WIRE SINGLE PHASE ELECTRIC SERVICE TO THE MOTORISTS SERVICES BUILDING.

(2) 2 - 4" CONDUITS AS PER 713.07 (ELECTRICAL SERVICE, PRIMARY). ONE 4" CONDUIT IS A SPARE WITH A NO. 10 PULL WIRE. CONDUCTORS WILL BE FURNISHED AND INSTALLED BY THE DAYTON POWER AND LIGHT COMPANY.

(2A) 2 - 4" CONDUITS AS PER 713.04 (ELECTRICAL SERVICE, SECONDARY). ONE 4" CONDUIT IS A SPARE WITH A NO. 10 PULL WIRE. ONE CONDUIT WITH THREE NO. 500 MCM. TYPE RHH/RHW-USE CONDUCTORS.

(3) 1 - 2" CONDUIT AS PER 713.04 WITH NO. 10 PULL WIRE (TELEPHONE).

(4) 2 - 2" CONDUIT AS PER 713.04 WITH THREE NO. 4 AWG U.L., TYPE MV-90 DRY, 5000V., 713.02 CONDUCTORS (EXISTING RAMP LIGHT CIRCUIT "C" AND PROPOSED AREA CIRCUIT "B") 240 VOLT, 1-PHASE, 60 HZ CIRCUIT.

(5) 1 - 2" CONDUIT AS PER 713.04 WITH THREE NO. 4 AWG U.L., TYPE MV-90 DRY, 5000V., 713.02 CONDUCTORS (EXISTING RAMP LIGHT CIRCUIT "C") 240 VOLT, 1-PHASE, 60 HZ CIRCUIT. TERMINATE 3RD CONDUCTOR IN PULL BOX (PB-AC2).

(6) 1 - 2" CONDUIT AS PER 713.04 WITH EIGHT 3ZIA, 18GA., 41 STRAND, COPPER, INSUL., SINGLE CONDUCTORS TO THE EXISTING RESERVOIR. (4-ACTIVE, 4-SPARE)

(7) 1 - 2" CONDUIT AS PER 713.04 WITH THREE NO. 4 AWG U.L., TYPE MV-90 DRY, 5000V., 713.02 CONDUCTORS (PROPOSED AREA CIRCUIT "A") 240 VOLT, 1-PHASE, 60 HZ CIRCUIT. TERMINATE 3RD CONDUCTOR IN PULL BOX (PB-AA9).

(8) 1 - 3" CONDUIT AS PER 713.04 WITH THREE NO. 4/0 AWG TYPE RHH/RHW-USE CONDUCTORS (TO EXISTING TREATMENT PLANT) 240 VOLT, 1-PHASE, 60 HZ CIRCUIT.

(9) 1 - 2" CONDUIT AS PER 713.04 WITH THREE NO. 4 AWG TYPE RHH/RHW-USE CONDUCTORS (TO EXISTING WELL), 240 VOLT, 1-PHASE, 60 HZ CIRCUIT AND FOUR 3ZIA, 18GA., 41STRAND, COPPER, INSUL., SINGLE CONDUCTORS FOR WELL LEVEL CONTROLS (2 AS A SPARE).

(10) 1 - 2" CONDUIT AS PER 713.04 WITH NO. 10 PULL WIRE. RUN FROM ROADWAY LIGHT CONTROLLER TO PULL BOX (PB-AA4) AND CAP. (FOR FUTURE AREA CIRCUIT "D").

(11) 1 - 2" CONDUIT AS PER 713.04 WITH SIX NO. 10 AWG TYPE RHH/RHW-USE CONDUCTORS TO RESERVOIR WELL PUMPS LOCATED ADJACENT TO UNDERGROUND RESERVOIR TANK (TOTAL OF TWO PUMPS). FROM PULL BOX RUN 2-1" CONDUITS AS PER 713.04 WITH THREE NO. 10 AWG TYPE RHH/RHW-USE CONDUCTORS SHALL SEPARATELY FEED TO EACH SUBMERSIBLE RESERVOIR PUMP 240 VOLT, 1-PHASE, 3-WIRE, 60 HZ CIRCUIT.

(12.) 1-2" CONDUIT AS PER 713.04 WITH THREE NO. 4 AWG U.L. TYPE MV-90 DRY, 5000 V., 713.02 CONDUCTORS (PROPOSED CIRCUIT FOR OUTSIDE PAY TELEPHONES) 120 VOLT, 1-PHASE, 3-WIRE, 60 HZ CIRCUIT. (USE SPLICE KITS IN (PB-AB3) AND CONNECT TO CIRCUIT "B") TERMINATE 3RD. CONDUCTOR IN PULL BOX (PB-AB4).

(13.) 1-2½" CONDUIT AS PER 713.04 WITH THREE NO. 4 AWG, TYPE RHH/RHW-USE CONDUCTORS (PROVIDE SPLICE KITS IN PULL BOX TO JOIN NO. 4/0 CONDUCTORS TO NO. 4 CONDUCTORS) 240 VOLT, 1-PHASE, 60 HZ. BRANCH FEED TO WASTE TREATMENT CONTROL PANEL. PROVIDE LUGS AND MAKE CONNECTIONS TO TERMINALS IN CONTROL PANEL AS REQUIRED.

NOTE:

THE ELECTRICAL CONTRACTOR SHALL EXTEND THE THREE CONDUCTORS, INCLUDING THE NEUTRAL GROUND CONDUCTOR, TO ALL AREA LIGHTING WITHIN THE CONFINES OF THE ROADSIDE REST AREA, AS REQUIRED, AND MAKE GROUND CONNECTIONS AS DETAILED ON STANDARD CONSTRUCTION DRAWING HL-9, DETAIL "B" FOR 120/240 VOLTS, THREE WIRE GROUNDED NEUTRAL. THE COMPRESSION CONNECTOR AND APPURTENANCES SHALL BE FURNISHED AND INSTALLED TO THE POLE BASE TO ASSURE PROPER GROUNDING. THE RAMP LIGHTS SHALL REMAIN GROUNDED AS ORIGINALLY INSTALLED, BY GROUND CABLE AND GROUND ROD AT BASE OF POLES. THE NEW NEUTRAL GROUND NEED NOT FEED TO THESE LIGHTS. THE LIGHTS IN THE PARKING MEDIAN SHALL HAVE THE NEUTRAL GROUND CONNECTOR EXTEND TO ALL OF THE LIGHT POLES IN THE MEDIAN AND WIRED AS PER STANDARD DRAWING HL-9.

TRANSFORMER PAD NOTES AND TRANSFORMER PAD DETAIL SHOWN ON SHEET NO. 17 SHALL ALSO APPLY TO EAST BOUND REST AREA.

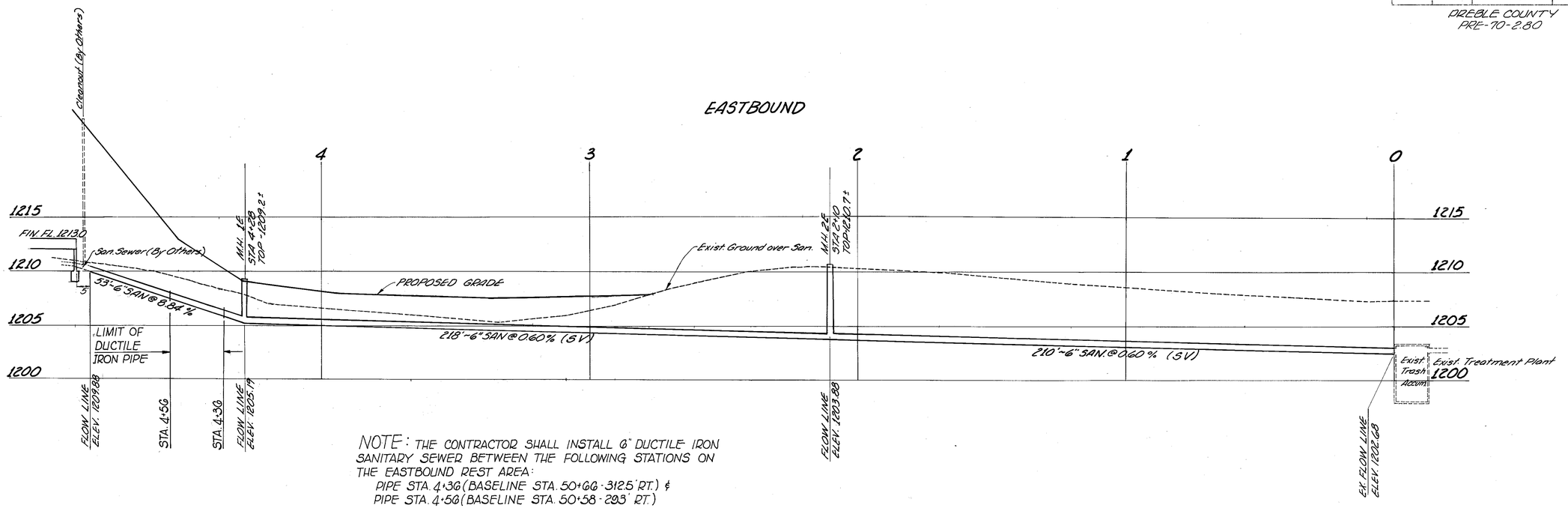
PRE.-70-2.80 UTILITY NOTES EAST BOUND

F.H.W.A. REGION	STATE	PROJECT	
5	OHIO	IR-70-1(372	

27
68

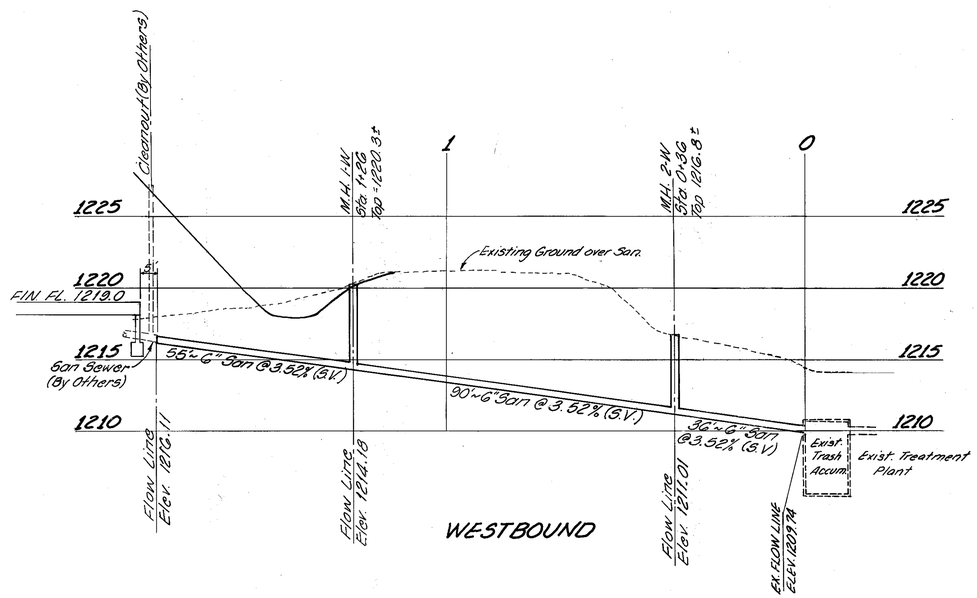
DREBLE COUNTY
PRE-70-2.80

EASTBOUND



NOTE: THE CONTRACTOR SHALL INSTALL 6" DUCTILE IRON SANITARY SEWER BETWEEN THE FOLLOWING STATIONS ON THE EASTBOUND REST AREA:
PIPE STA. 4+36 (BASELINE STA. 50+66 · 312.5' RT.) &
PIPE STA. 4+56 (BASELINE STA. 50+58 · 293' RT.)

WESTBOUND



QUANTITIES TO SUMMARY		
Special - 6" Ductile Iron Sanitary Sewer Pipe w/ Mechanical Joints	604 Manhole Std Nº 3 with joints as per 706.11 Modified as per plan	Special - 6" Cast Iron Soil Pipe (SV) with Flexible Joints,
Lin. Ft.	Each	Lin. Ft.
20 -	4 -	64.2 -

CENTERLINE REFERENCE		
Manhole Nº	Approx. Station Baseline	Offset
1E	50+69	319' Rt.
2E	52+87	320' Rt.
1W	55+30	277' Lt.
2W	56+01	222'

PRE-70-2.80 SANITARY SEWER PROFILE -- EASTBOUND & WESTBOUND

F.H.W.A. REGION	STATE	PROJECT	
5	OHIO	IR-70-1(37)2	

PREBLE COUNTY
PRE.-70-2.80

28
GB

JAMES J. JORDAN
D.B. 244, P. 42

STATE OF OHIO
D.B. 290, P. 251

STATE OF OHIO
D.B. 272, P. 465

MARIE LOUDENBACK
P.B. 243, P. 120

STATE OF OHIO
D.B. 243, P. 120

STATE OF OHIO
D.B. 244, P. 42

SECTION LINE

149+09.63
708.44'

150+59.62
710.13'

S 89° 11' 35" E
150.00'

N 88° 21' 13" E
891.60'

159+50
758.34'

150.14'

440.16'

S 88° 21' 13" W
739.77'

357.56'

S 1° 27' 11" W

N 0° 48' 24" E
455.99'

S 0° 48' 24" W
397.03'

330.00'

N 1° 27' 11" E

159+50
400.78'

S 80° 42' 53" E
511.37'

164+56.60
331.00'

149+14.77
252.57'

159.82'

878.72'
1038.54'

N 84° 49' 04" E
ORIGINAL LA R/W

107.01'

N 80° 42' 53" W
660.45'
ORIGINAL LA R/W

S 2° 19' 40" W
151.11'

164+54.29
180.00'

N 1° 27' 11" E
25.00'

S 89° 20' 45" W
1033.49'

N 88° 32' 49" W
1388.24'

140 145 150 ℄ S.R. 40 (I.R. 70) 155 160 165 170

S 88° 32' 49" E

STATE OF OHIO
D.B. 230, P. 300

STATE OF OHIO
D.B. 235, P. 463

141+50
153.44'

SEC. 33 SEC. 34

SEC. 4 SEC. 3

167+00
149.65'

SECTION LINE

SECTION LINE

ORIGINAL LA R/W
S 80° 02' 52" E
788.66'

ORIGINAL LA R/W
1007.19'
N 84° 36' 07" E

N 1° 27' 11" E
202.08'

S 1° 27' 11" W
201.44'

STATE OF OHIO
D.B. 290, P. 250

STATE OF OHIO
D.B. 244, P. 39

STATE OF OHIO
P.B. 243, P. 83

STATE OF OHIO
D.B. 276, P. 418

141+50
355.66'

N 80° 02' 52" W
586.44'

S 84° 36' 07" W
805.75'

167+00
351.29'

147+30
442.33'

S 1° 27' 11" W
230.00'

N 1° 27' 11" E
230.00'

159+00
447.41'

S 88° 32' 49" E
770.00'
224.21'
545.79'

N 1° 27' 11" E
257.67'

N 0° 38' 14" E
200.02'

S 1° 27' 11" W
252.59'

JAMES J. JORDAN
D.B. 290, P. 250

427.06'
742.94'

147+30
700.00'

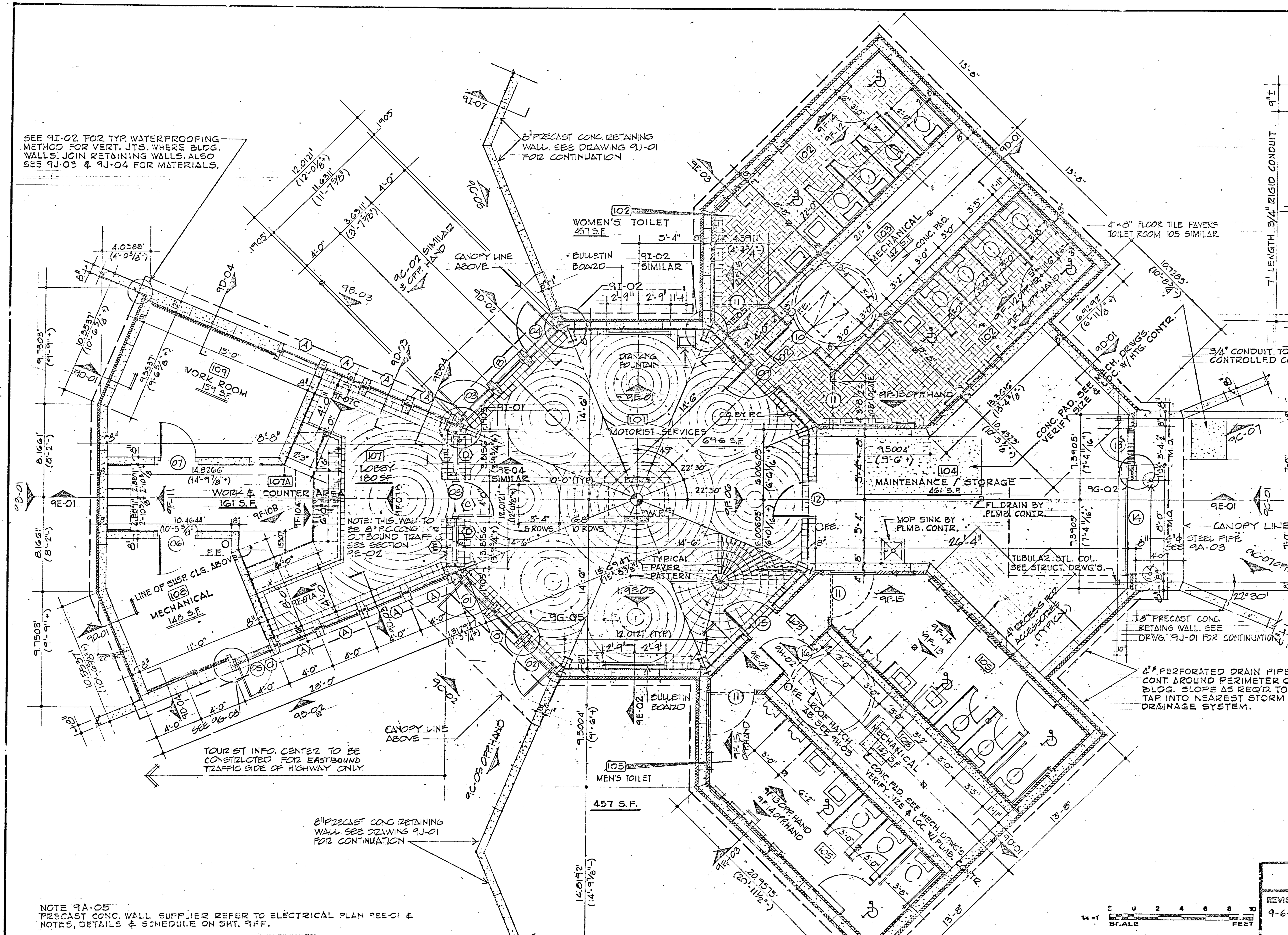
N 88° 32' 49" W
1170.00'

159+00
700.00'

ELIZABETH M. PRICE
&
LOUISE M. WINSOR
D.B. 276, P. 418

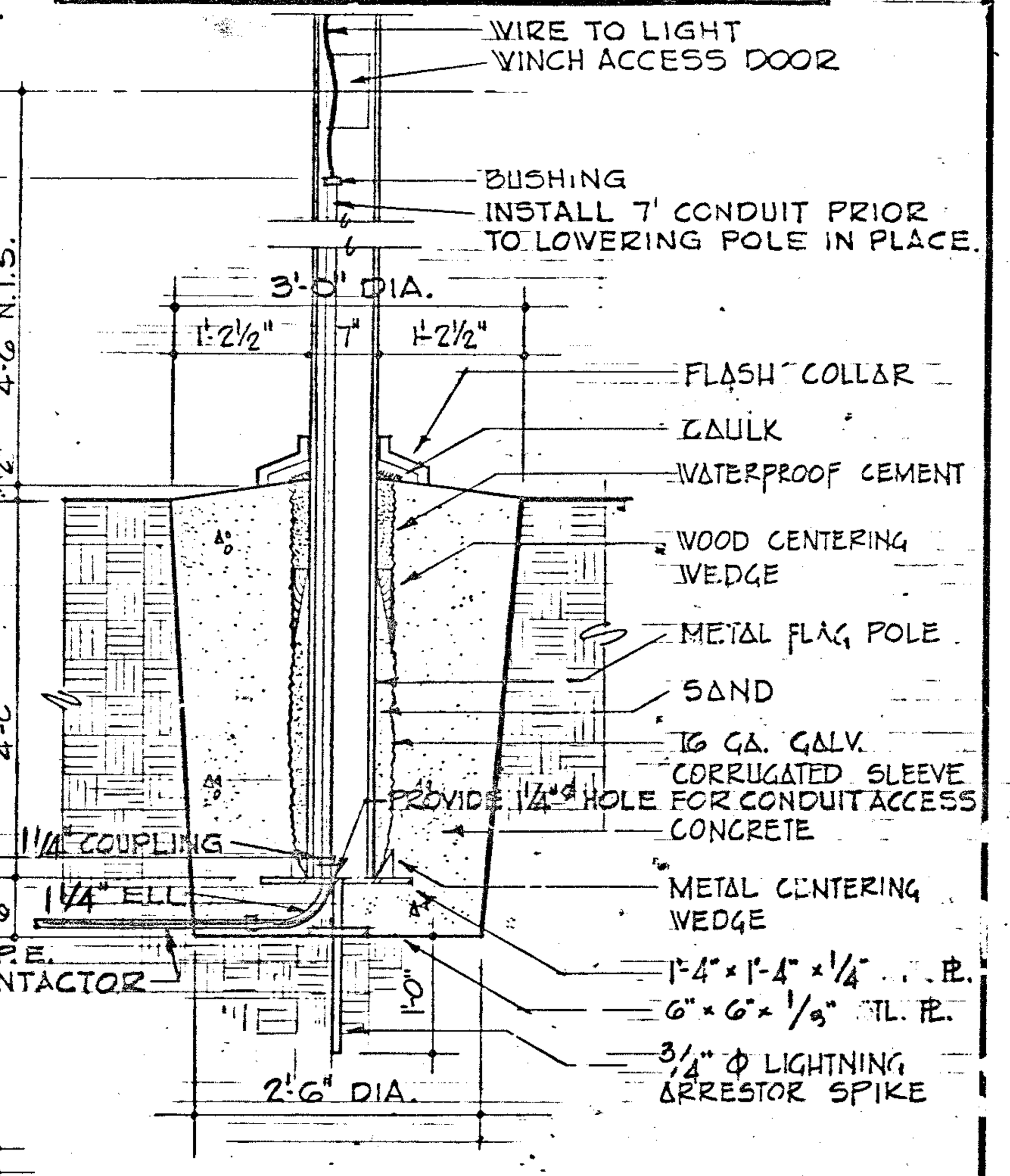
SECTION LINE

RIGHT-OF-WAY PLAN

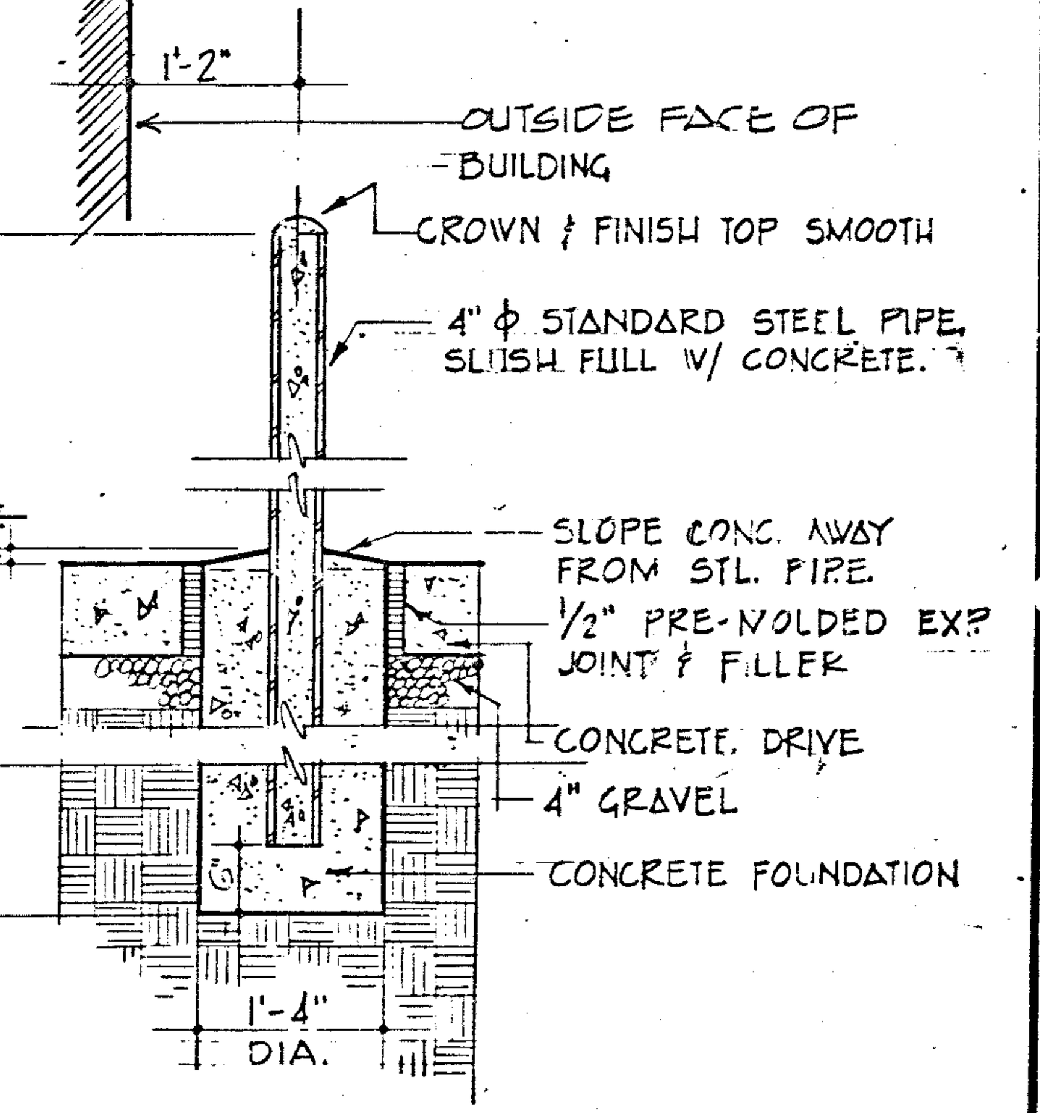

SEE 9I-02 FOR TYP. WATERPROOFING METHOD FOR VERT. JTS. WHERE BLDG. WALLS JOIN RETAINING WALLS. ALSO SEE 9J-03 & 9J-04 FOR MATERIALS.
8" PRECAST CONC. RETAINING WALL. SEE DRAWING 9J-01 FOR CONTINUATION
WOMEN'S TOILET 457 S.F.
BULLETIN BOARD
CANOPY LINE ABOVE
WORK ROOM 159 S.F.
LOBBY 180 S.F.
MOTORIST SERVICES 696 S.F.
DRINKING FOUNTAIN
MECHANICAL 142 S.F.
MAINTENANCE / STORAGE 261 S.F.
WORK & COUNTER AREA 161 S.F.
MECHANICAL 148 S.F.
LINE OF SUSP. CLG. ABOVE
NOTE: THIS WALL TO BE 8" P.C.CONC. IN OUTBOUND TRAFFIC. SEE SECTION 9E-02
TYPICAL PAVER PATTERN
4"x8" FLOOR TILE PAVERS TOILET ROOM 105 SIMILAR
3/4" CONDUIT TO P.E. CONTROLLED CONTACTOR
CONC. PAD. SEE MECH. DRWG'S. VERIFY SIZE & LOC. W/HTG. CONTR.
FL. DRAIN BY PLMB. CONTR.
MOP SINK BY PLMB. CONTR.
TUBULAR STL. COL. SEE STRUCT. DRWG'S.
CANOPY LINE ABOVE
STEEL PIPE 9A-03
8" PRECAST CONC. RETAINING WALL. SEE DRWG. 9J-01 FOR CONTINUATION
4" Ø PERFORATED DRAIN PIPE CONT. AROUND PERIMETER OF BLDG. SLOPE AS REQ'D. TO TAP INTO NEAREST STORM DRAINAGE SYSTEM.
ROOF HATCH SEE 9H-03
MEN'S TOILET 457 S.F.
TOURIST INFO. CENTER TO BE CONSTRUCTED FOR EASTBOUND TRAFFIC SIDE OF HIGHWAY ONLY.
8" PRECAST CONC RETAINING WALL. SEE DRAWING 9J-01 FOR CONTINUATION

NOTE 9A-05
PRECAST CONC. WALL SUPPLIER REFER TO ELECTRICAL PLAN 9EE-01 & NOTES, DETAILS & SCHEDULE ON SHT. 9FF.

9A-01 FLOOR PLAN
SCALE 1/4" = 1'-0"


WIRE TO LIGHT
WINCH ACCESS DOOR
BUSHING
INSTALL 7' CONDUIT PRIOR TO LOWERING POLE IN PLACE.
3'-0" DIA.
FLASH COLLAR
CAULK
WATERPROOF CEMENT
WOOD CENTERING WEDGE
METAL FLAG POLE
SAND
16 GA. GALV. CORRUGATED SLEEVE
PROVIDE 1/4" Ø HOLE FOR CONDUIT ACCESS
CONCRETE
1 1/4" COUPLING
1 1/4" ELL
METAL CENTERING WEDGE
7' LENGTH 3/4" RIGID CONDUIT
3/4" Ø LIGHTNING ARRESTOR SPIKE
2'-6" DIA.

9A-02 FLAGPOLE FOUNDATION DETAIL
SCALE: 3/4" = 1'-0"

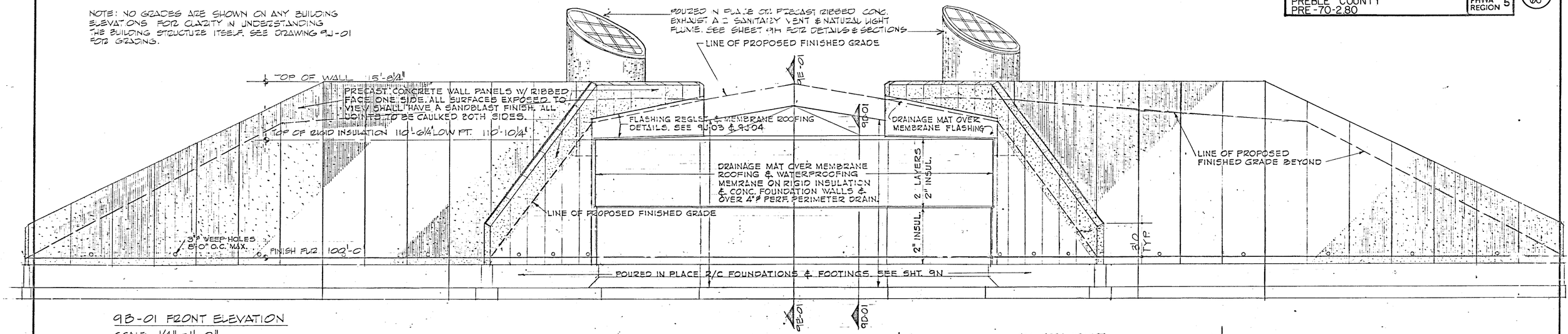


9A-03 GUARD POST DETAIL
SCALE: 3/4" = 1'-0"

OHIO DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS		
REVISIONS 9-6-84	MOTORIST SERVICES BUILDING AND STORAGE UNITS	SHEET NO. 9A
	ARCHITECTS • WRIGHT/KRITSCHGAU, ASSOCIATES, INC. 3300 TRABUE RD. COLUMBUS, OHIO ENGINEERS • JOHN E. FOSTER & ASSOCIATES, COLUMBUS, OHIO ENERGY TECHNOLOGIES • BATTELLE / COLUMBUS LABORATORIES	DATE

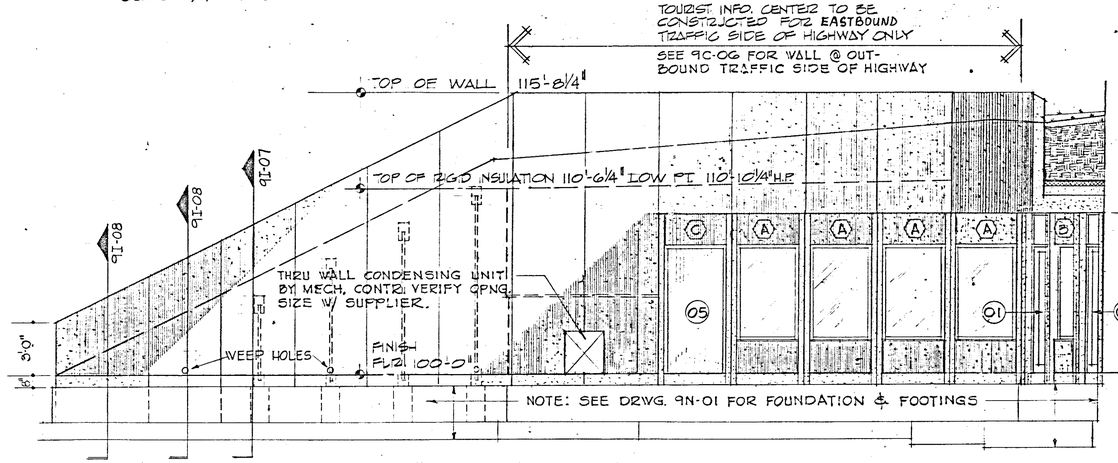
PROJECT	OHIO	30
I.R.-70-1(37)2		68
PREBLE COUNTY	FHWA REGION 5	
PRE-70-2.80		

NOTE: NO GRADES ARE SHOWN ON ANY BUILDING ELEVATIONS FOR CLARITY IN UNDERSTANDING THE BUILDING STRUCTURE ITSELF. SEE DRAWING 9J-01 FOR GRADING.



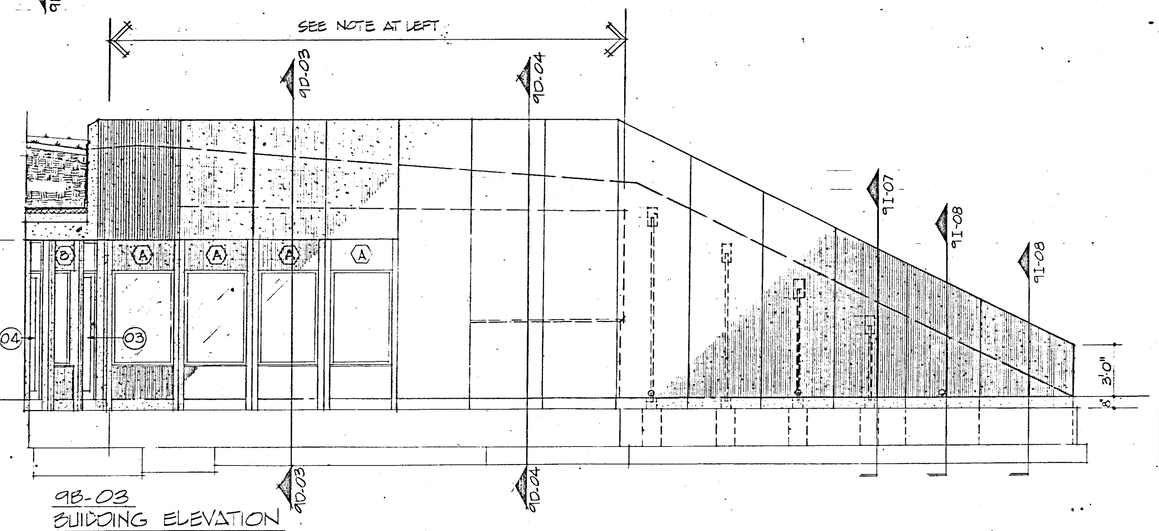
9B-01 FRONT ELEVATION

SCALE 1/4" = 1'-0"



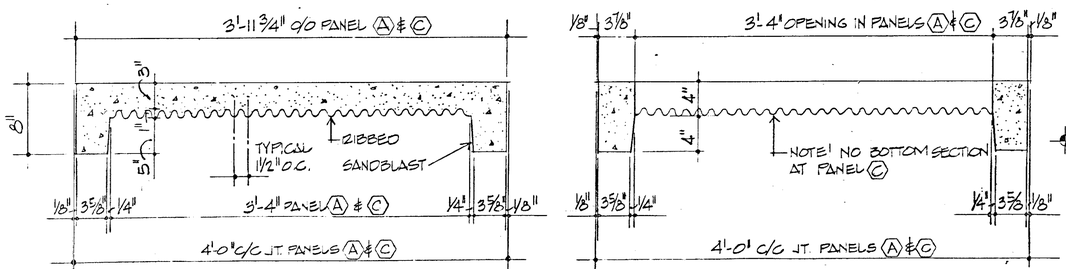
9B-02 BUILDING ELEVATION

SCALE 1/4" = 1'-0"



9B-03 BUILDING ELEVATION

SCALE 1/4" = 1'-0"



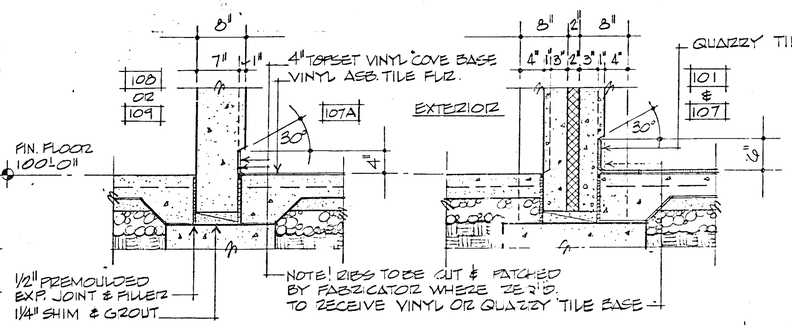
NOTE: SEE SHT. 9C & 9I FOR ADDITIONAL P.C. CONC. ELEVATIONS & DETAILS

9B-04 PLAN-TYP. P.C. CONC. PANELS Ⓐ & Ⓒ ABOVE (& BELOW) OPENING

SCALE: 1½" = 1'-0"

9B-05 PLAN-TYP. P.C. PANELS Ⓐ & Ⓒ AT OPENING

SCALE: 1½" = 1'-0"



9B-06 BASE DETAIL FOR RM. 107A

SCALE: 1"=1'-0"

9B-07 BASE DET. FOR RM. 101 & 107

SCALE: 1"=1'-0"

1" - 1 0 1 2 SCALE FEET

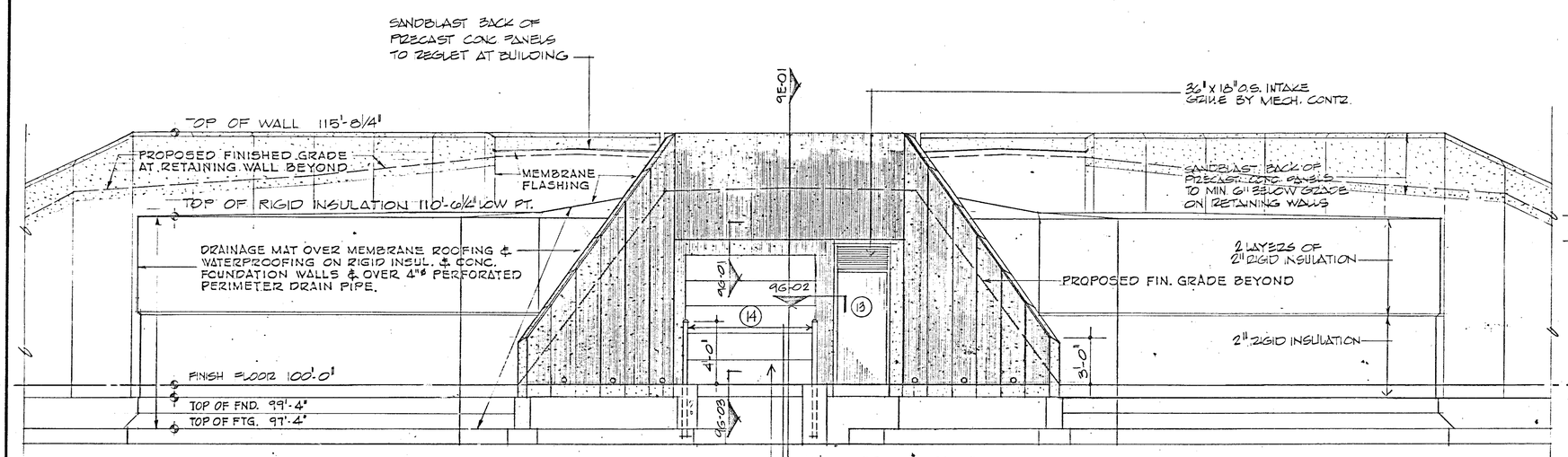
¼"=1' 2 0 2 4 6 8 10 SCALE FEET

1 1/2" = 1' 1 0 1 SCALE FEET

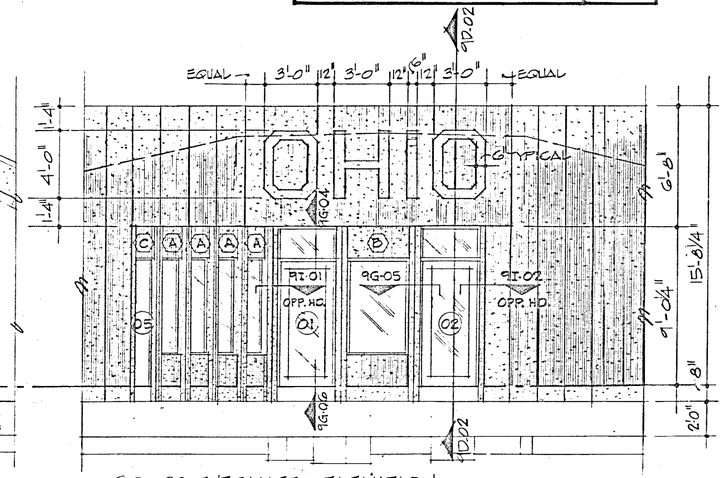
OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

REVISIONS	MOTORIST SERVICES BUILDING AND STORAGE UNITS	SHEET NO. 9B
	ARCHITECTS • WRIGHT / KRITSCHGAU, ASSOCIATES, INC. 3600 TRABUE RD. COLUMBUS, OHIO ENGINEERS • JOHN E. FOSTER & ASSOCIATES, COLUMBUS, OHIO ENERGY TECHNOLOGIES • BATTELLE / COLUMBUS LABORATORIES	DATE

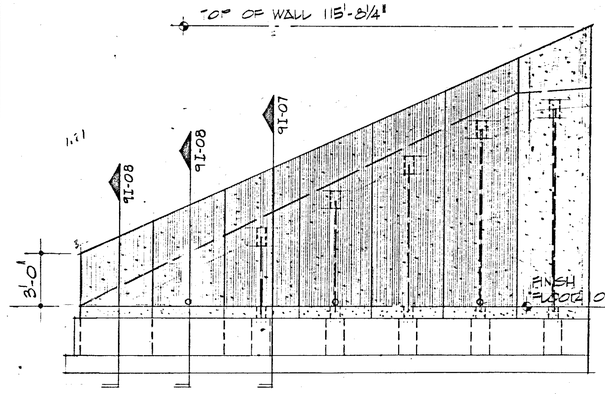
PROJECT	OHIO	31
I.R.-70-1(37)2		68
PREBLE COUNTY	FHWA REGION 5	
PRE-70-2.80		



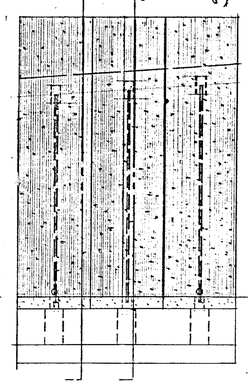
9C-01 REAR ELEVATION
SCALE 1/4" = 1'-0"



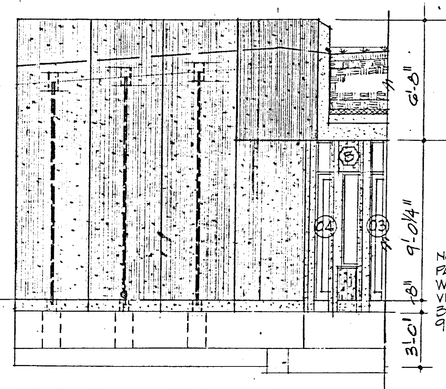
9C-02 ENTRANCE ELEVATION
SCALE 1/4" = 1'-0"



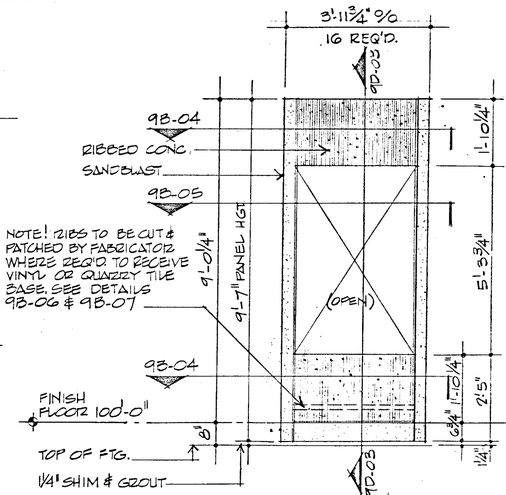
9C-03 RETAINING WALL ELEVATION
SCALE 1/4" = 1'-0"



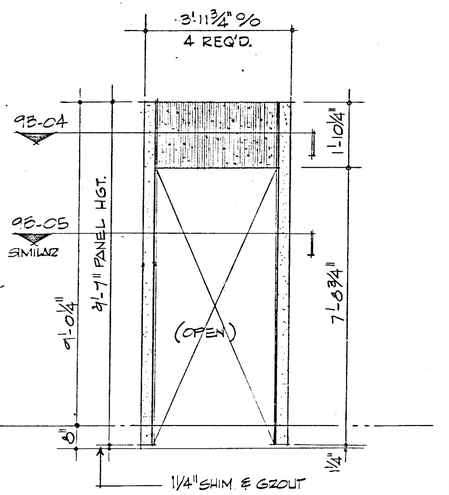
9C-04 RET. WALL ELEVATION
SCALE 1/4" = 1'-0"



9C-05 RETAINING WALL ELEVATION
SCALE 1/4" = 1'-0"

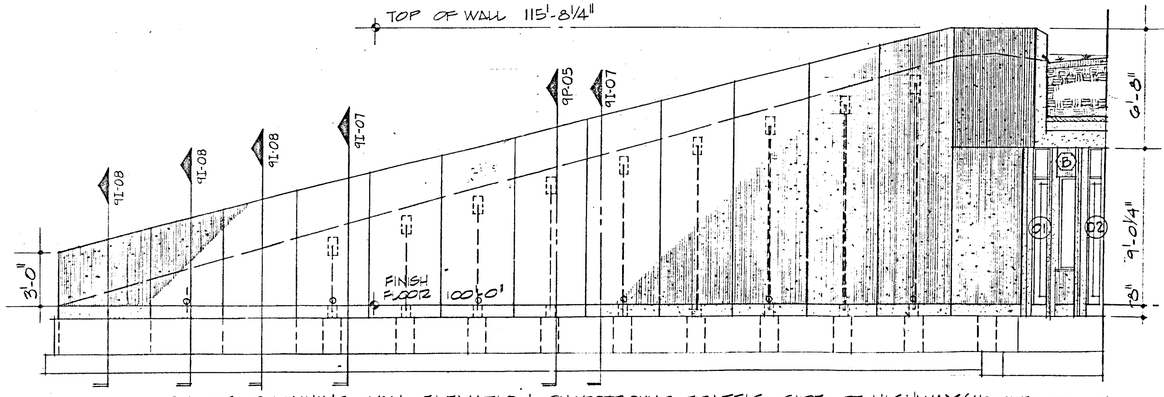


9C-08 INTERIOR & EXTERIOR P.C. CONC. WINDOW PANEL (A)
SCALE: 1/2" = 1'-0"
NOTE: SEE SHT. 9I FOR ADDITIONAL P.C. CONC. ELEV. & DET'S.

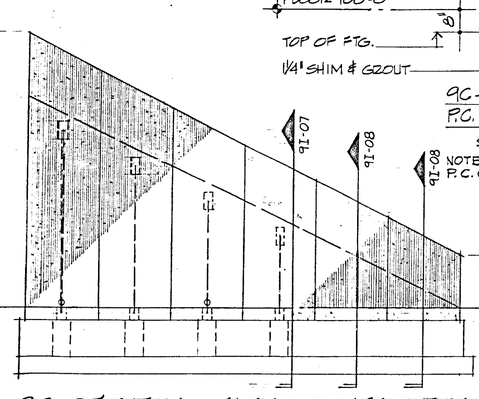


9C-09 INTERIOR & EXTERIOR P.C. CONC. DOOR PANEL (C)
SCALE: 1/2" = 1'-0"

1/4"=1' SCALE: 2 0 2 4 6 8 10 FEET
1/2"=1' SCALE: 1 0 1 2 3 4 5 FEET



9C-06 RETAINING WALL ELEVATION ON WESTBOUND TRAFFIC SIDE OF HIGHWAY (NO INFO. CENTER)
SCALE 1/4" = 1'-0"



9C-07 RET. WALL ELEV. @ SERVICE ENTRY
SCALE 1/4" = 1'-0"

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

REVISIONS	MOTORIST SERVICES BUILDING AND STORAGE UNITS	SHEET NO. 9C
	ARCHITECTS • WRIGHT/KRITSCHGAU, ASSOCIATES, INC. 3600 TRABUE RD. COLUMBUS, OHIO ENGINEERS • JOHN E. FOSTER & ASSOCIATES, COLUMBUS, OHIO ENERGY TECHNOLOGIES • BATTELLE / COLUMBUS LABORATORIES	DATE

PROJECT I.R. - 70 - 1(37)2	OHIO	32 / 68
PREBLE COUNTY PRE-70-2.80	FHWA REGION 5	

3/4"=1' SCALE 1 0 1 2 3 FEET

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

REVISIONS

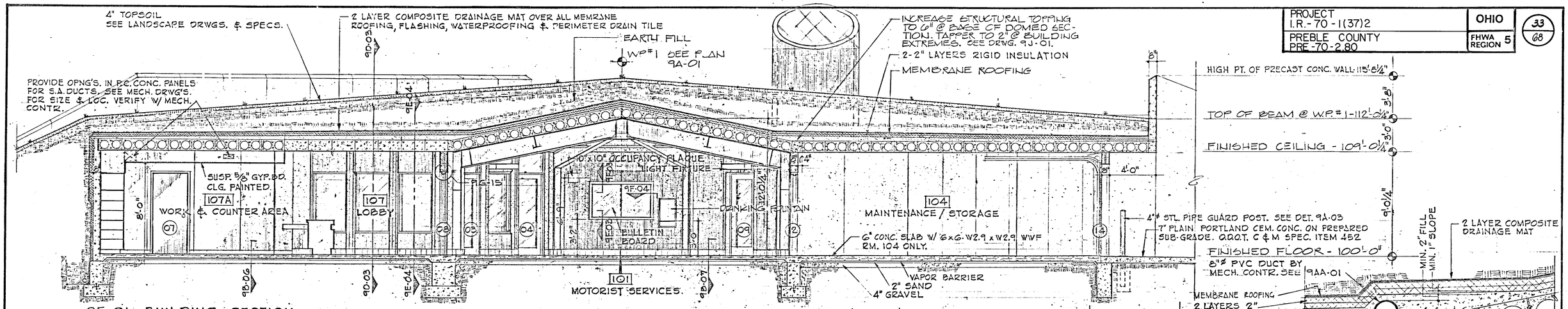
MOTORIST SERVICES BUILDING AND STORAGE UNITS

SHEET NO. 9D

DATE

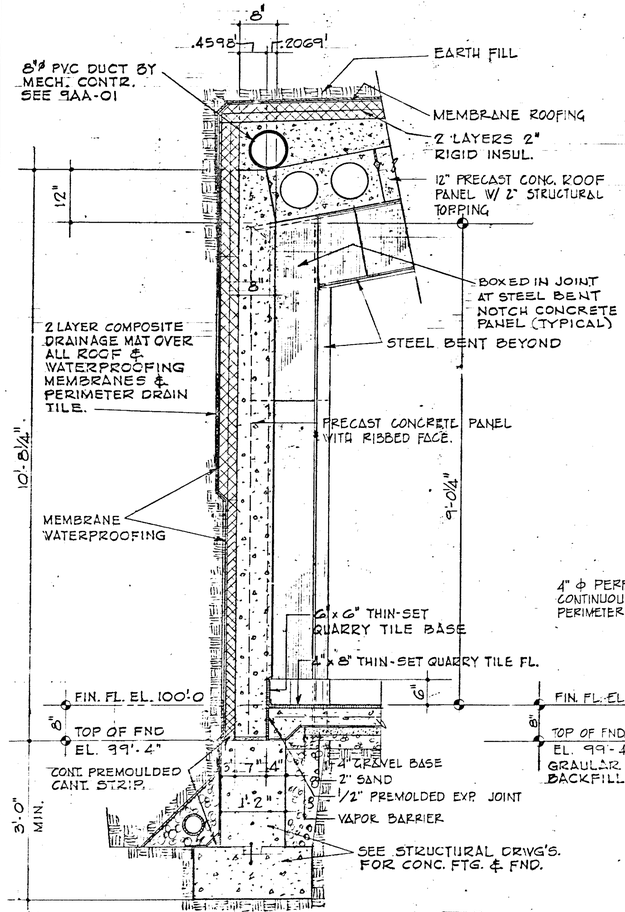
ARCHITECTS - WRIGHT / KRITZSCHMAN, ASSOCIATES, INC. 3500 TRABUE RD. COLUMBUS, OHIO
ENGINEERS - JOHN E. FOSTER & ASSOCIATES, COLUMBUS, OHIO
ENERGY TECHNOLOGIES - BATTELLE / COLUMBUS LABORATORIES

PROJECT	OHIO	33
I.R.-70-1(37)2		68
PREBLE COUNTY	FHWA REGION 5	
PRE-70-2.80		



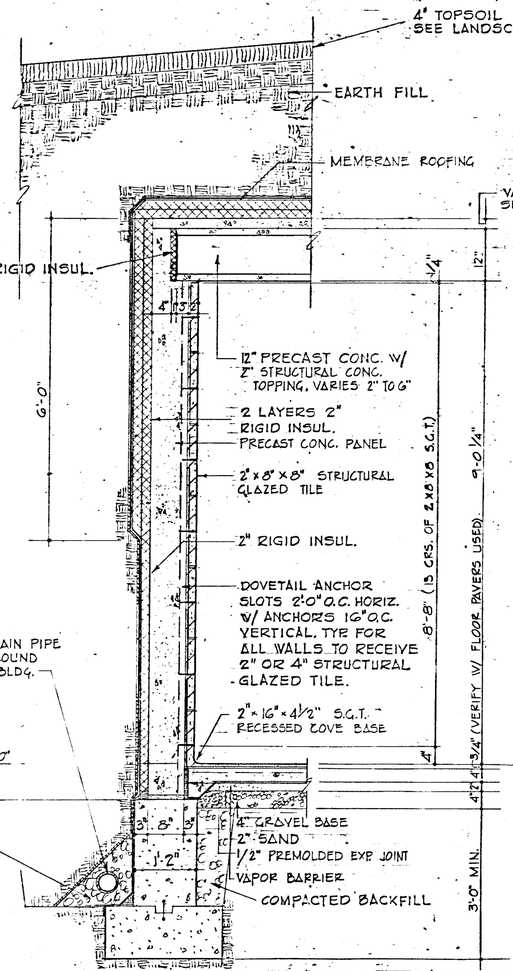
9E-01 BUILDING SECTION

SCALE 1/4" = 1'-0"



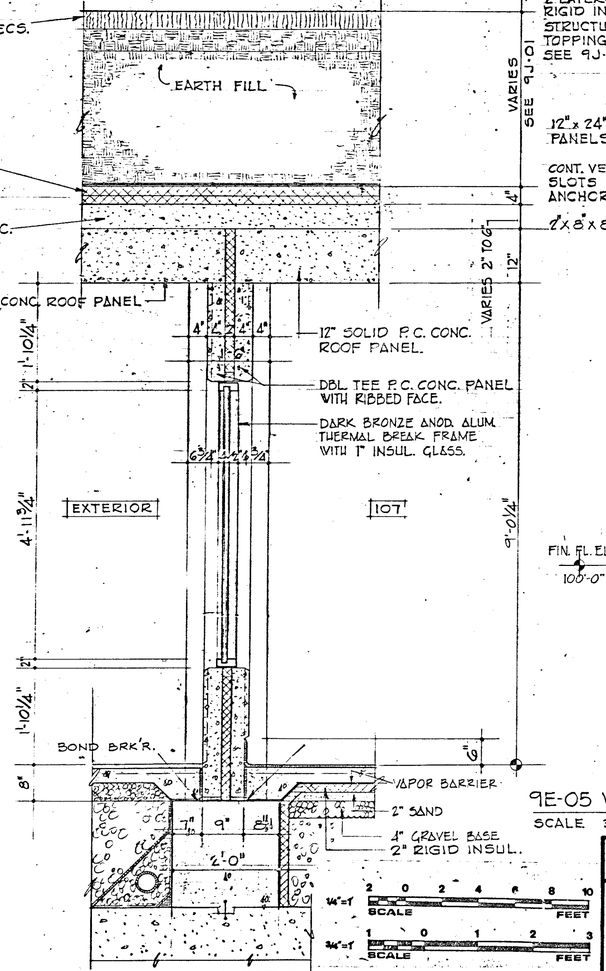
9E-02 WALL SECTION @ ROOM 101

SCALE 3/4" = 1'-0"



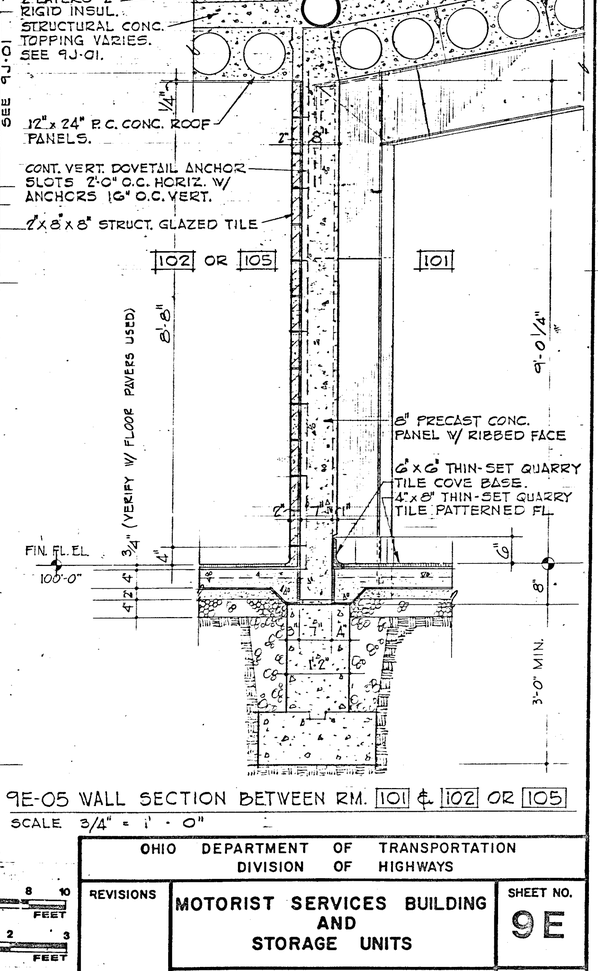
9E-03 WALL SECTION @ ROOM 102 & 105

SCALE 3/4" = 1'-0"



9E-04 WALL SECTION @ RM. 107

SCALE 3/4" = 1'-0"

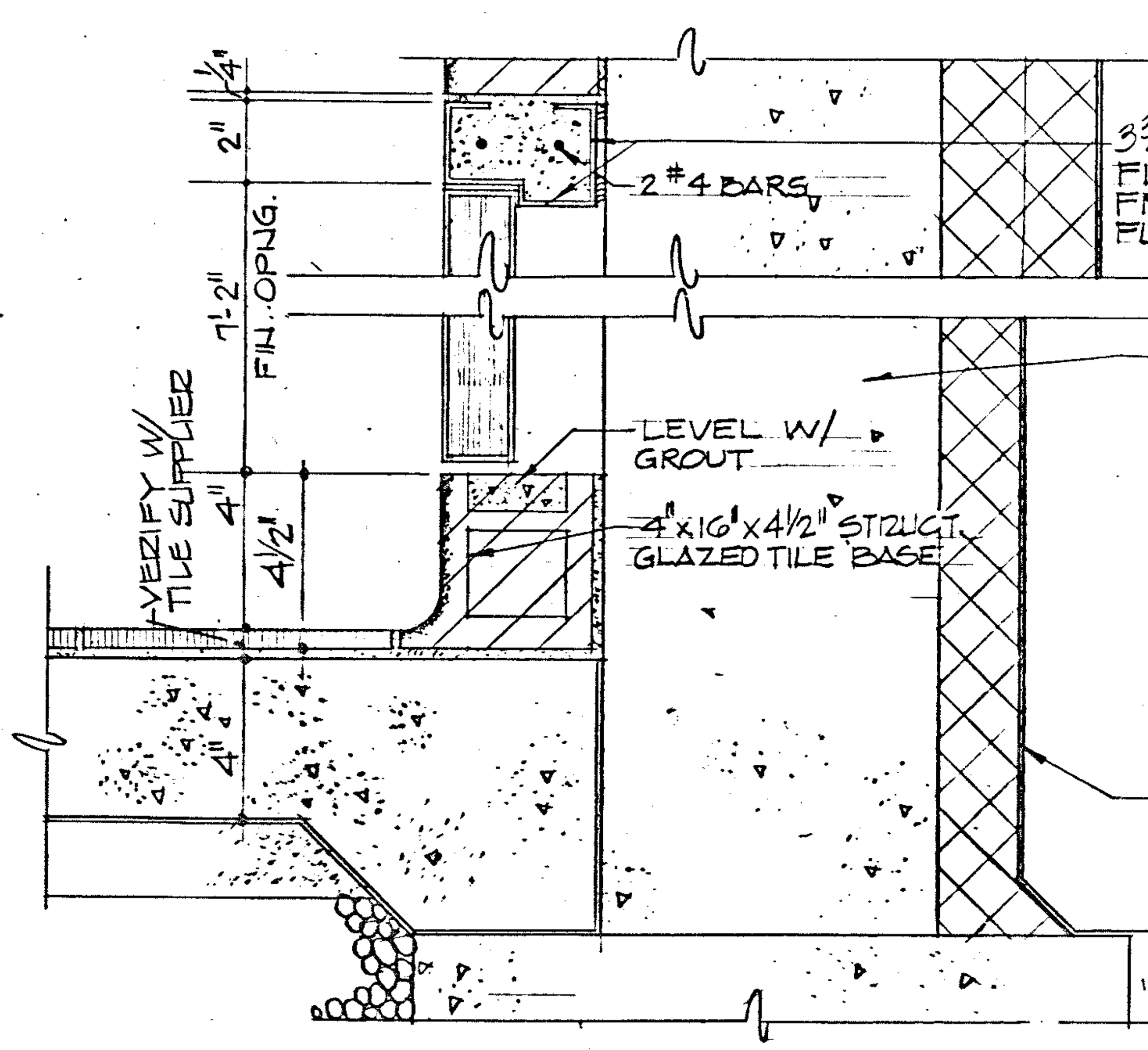


9E-05 WALL SECTION BETWEEN RM. 101 & 102 OR 105

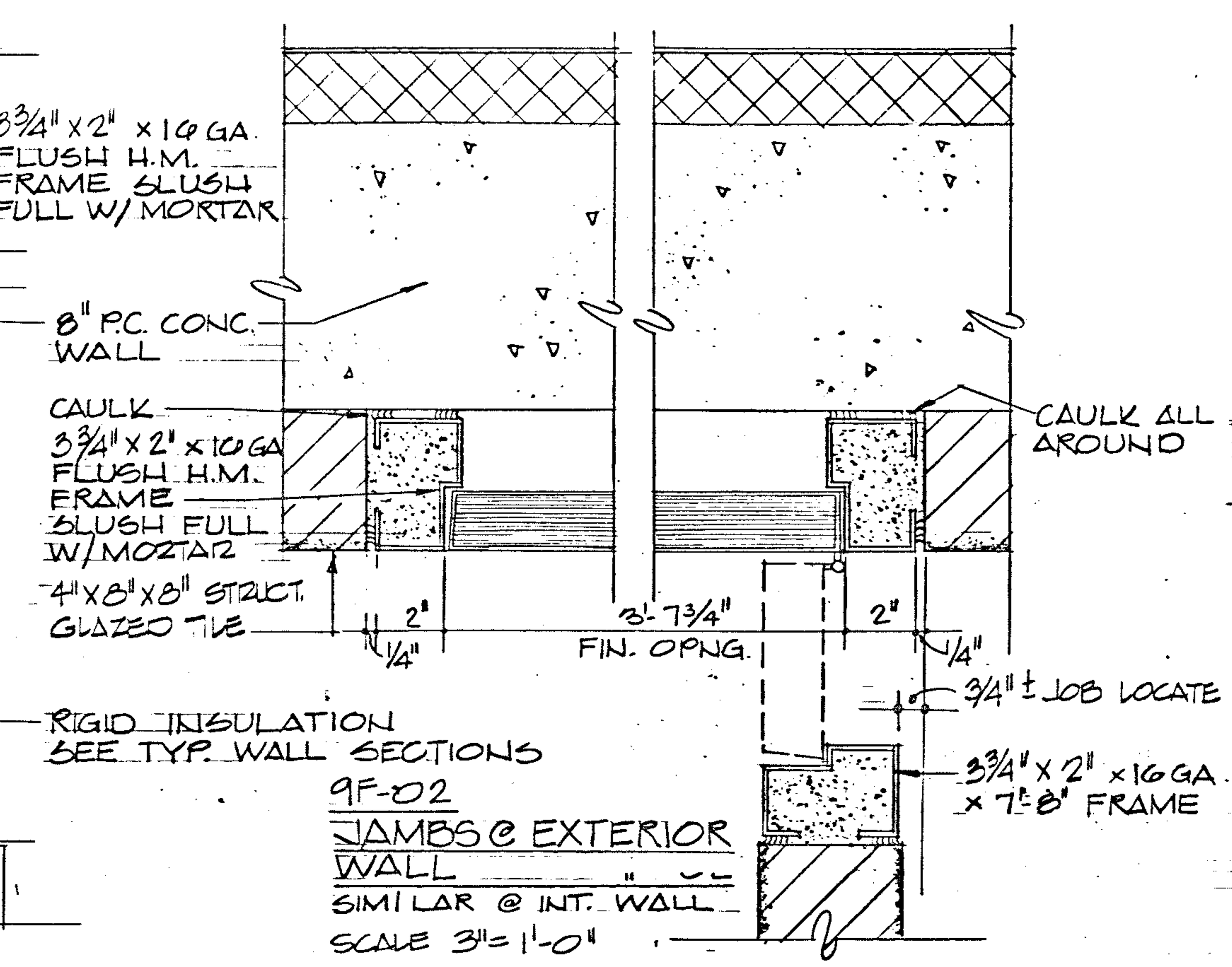
SCALE 3/4" = 1'-0"

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

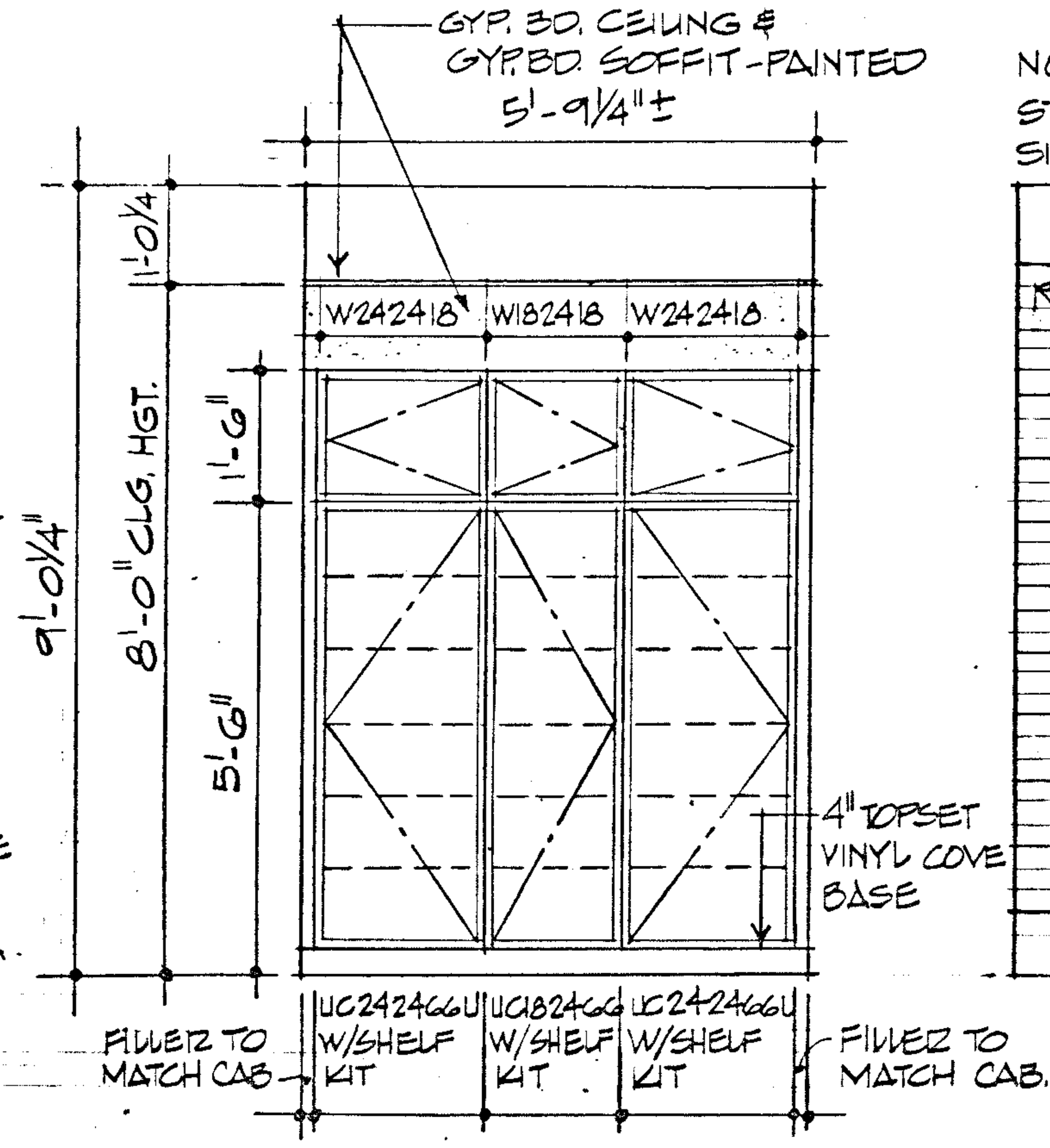
REVISIONS	MOTORIST SERVICES BUILDING AND STORAGE UNITS	SHEET NO. 9E
	ARCHITECTS • WRIGHT / KRITSCHGAU, ASSOCIATES, INC. 3600 TRABUE RD. COLUMBUS, OHIO ENGINEERS • JOHN E. FOSTER & ASSOCIATES, COLUMBUS, OHIO ENERGY TECHNOLOGIES • BATTELLE / COLUMBUS LABORATORIES	DATE



9F-01 HEAD & SILL @ EXTERIOR WALL
DOOR Nº 11 - FRAMING DETAILS
SCALE: 3" = 1'-0"   SIMILAR @ INTERIOR WALL



9F-02
JAMBS @ EXTERIOR WALL
SIMILAR @ INT. WALL
SCALE 3" = 1'-0"



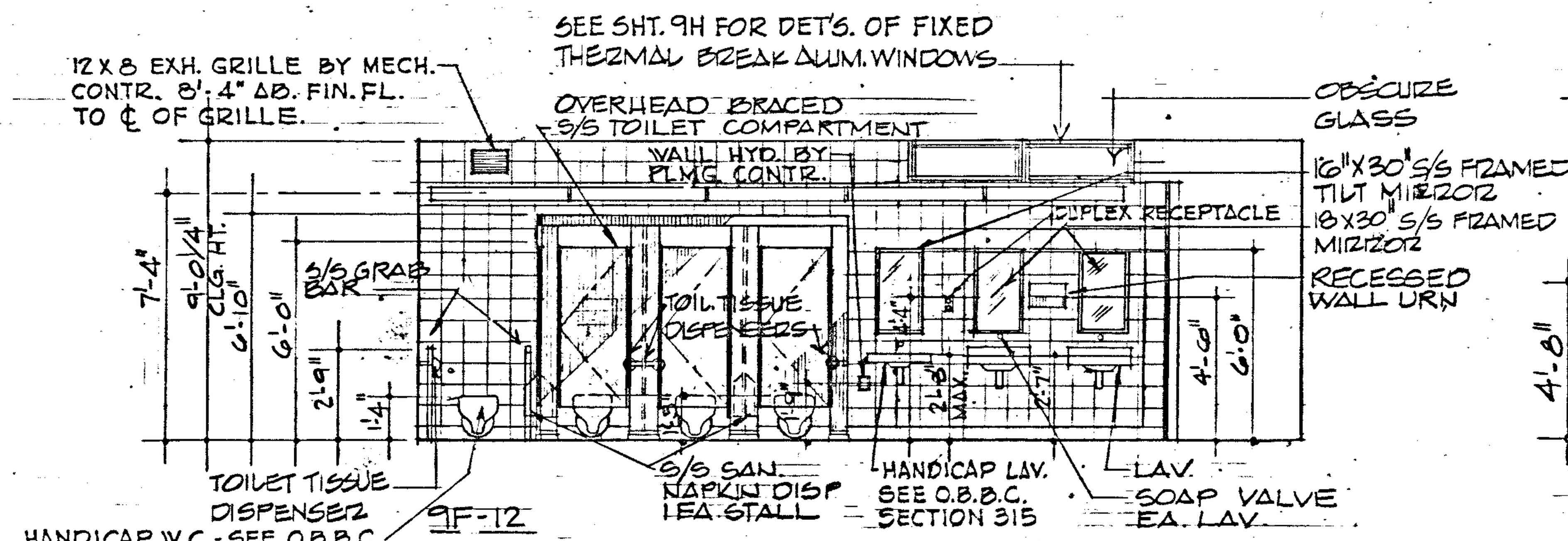
9F-11 CABINET ELEVATION - RM. 107A
SCALE ½" = 1'-0"

NOTE: ROOMS 107, 107A, 108 & 109 OCCUR IN STRUCTURES LOCATED ON INBOUND TRAFFIC SIDE OF HIGHWAY ONLY.

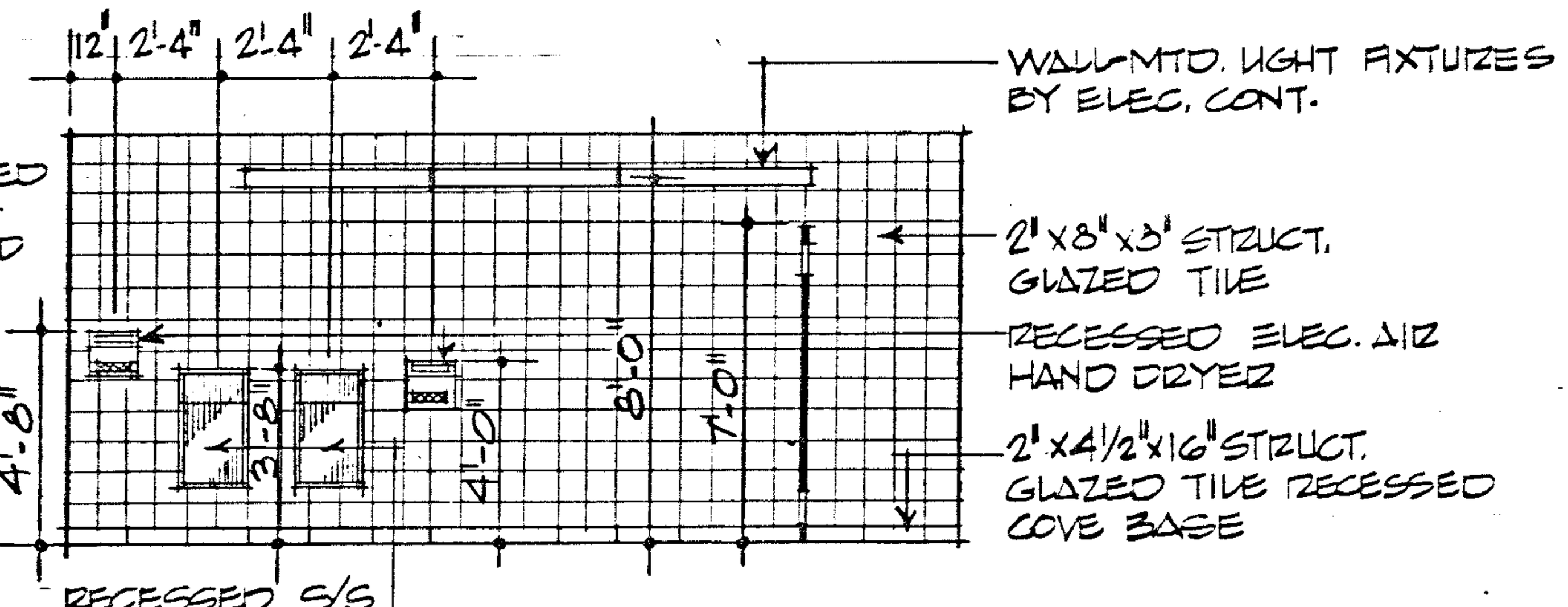
PROJECT I.R.-70-1(37)2 PREBLE COUNTY PRE-70-2.80	OHIO FHWA REGION 5	34/68

ROOM FINISH SCHEDULE

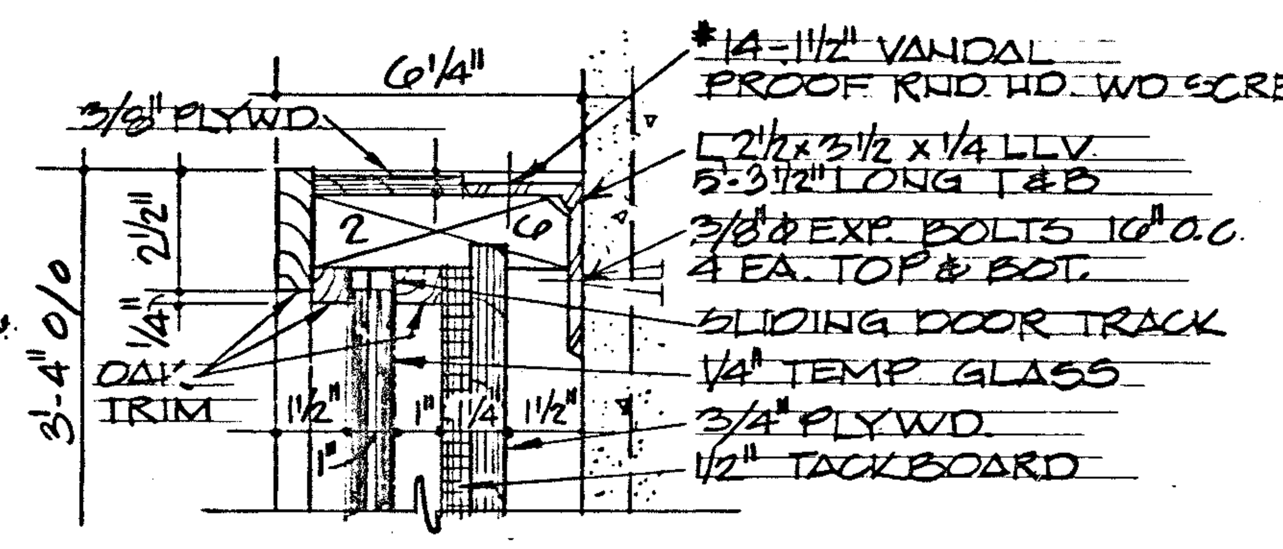
RM. Nº	ROOM NAME	FLOOR	BASE	WALLS	CEILING	CLG HT.	REMARKS
101	MOTORIST SERVICES	4x8" QUARRY TILE PAVERS	6x6" QUARRY T. RECESS. COVE	EXPOSED RIBBED P.C. CONC.	CONC. PAINTED	VARIES 9'-0¼-12'-0¼"	SEE 9A-01 FOR FL. PATTERN BASE DTL. 9B-07
102	WOMEN'S TOILET	Do	4½"x16" RECESS COVE S.G.T.	8x8" S.G.T.	Do	9'-0¼"	1¾" & 3¾" THK. S.G.T.
103	MECHANICAL	CONC. W/HDR	NONE	EXP. CONC.	Do	Do	
104	MAINTENANCE/STOR.	Do	Do	Do	Do	Do	
105	MEN'S TOILET	4x8" QUARRY TILE PAVERS	4½x16" RECESS COVE S.G.T.	8x8" S.G.T.	Do	Do	1¾" & 3¾" THK. S.G.T.
106	MECHANICAL	CONC. W/HDR	NONE	EXP. CONC.	Do	Do	
107	LOBBY	4x8" QUARRY TILE PAVERS	6x6" QUARRY T. RECESS. COVE	EXPOSED RIBBED P.C. CONC.	Do	Do	SEE 9A-01 FOR FL. PATTERN SEE BASE DTL. 9B-07
107A	COUNTER & WORK AREA	VINYL ASB. TILE	4" TOPSET VINYL COVE	Do	CONC. & SUSP. GYP. BD. - PTD.	9'-0¼ & 8'-0"	SEE BASE DTL. 9B-06
108	MECHANICAL	CONC. W/HDR.	NONE	CONC. & GYP. BD - PAINTED	CONC. PAINTED	9'-0¼"	
109	WORK ROOM	VINYL ASB. TILE	4" TOPSET VINYL COVE	Do	Do	Do	



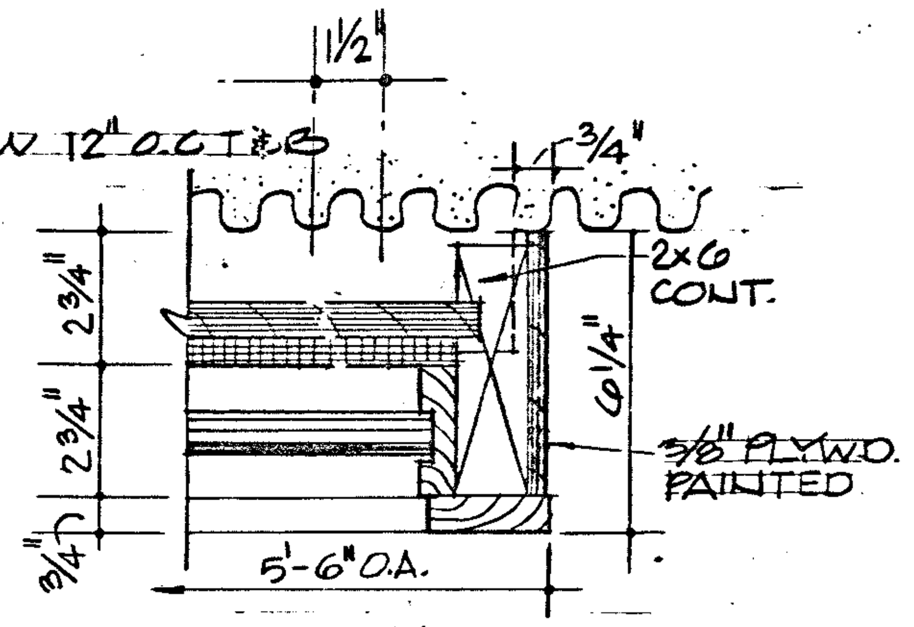
9F-12
ELEV. - WOMENS TOILET RM. 102
SCALE ¼" = 1'-0"



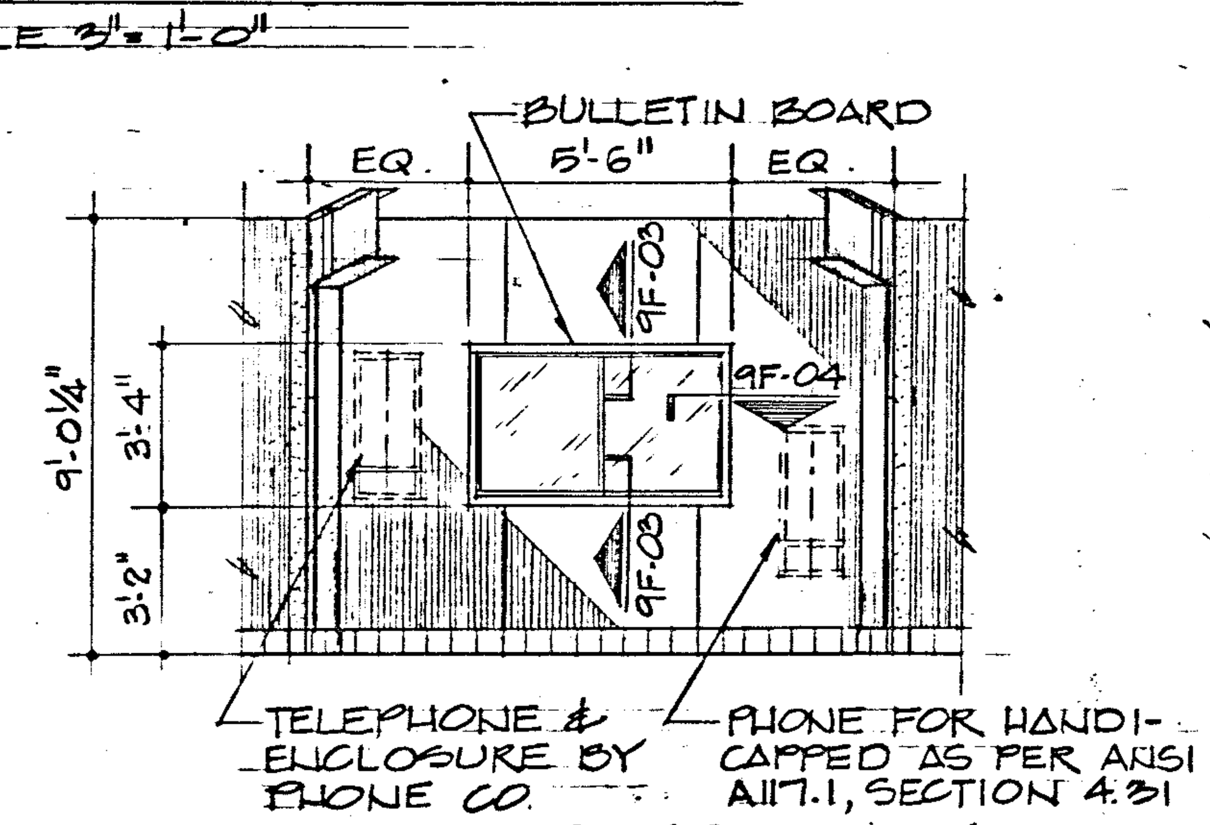
9F-14 ELEVATION - MENS TOILET RM. 105
AND WOMENS TOILET RM. 102
SCALE ¼" = 1'-0"



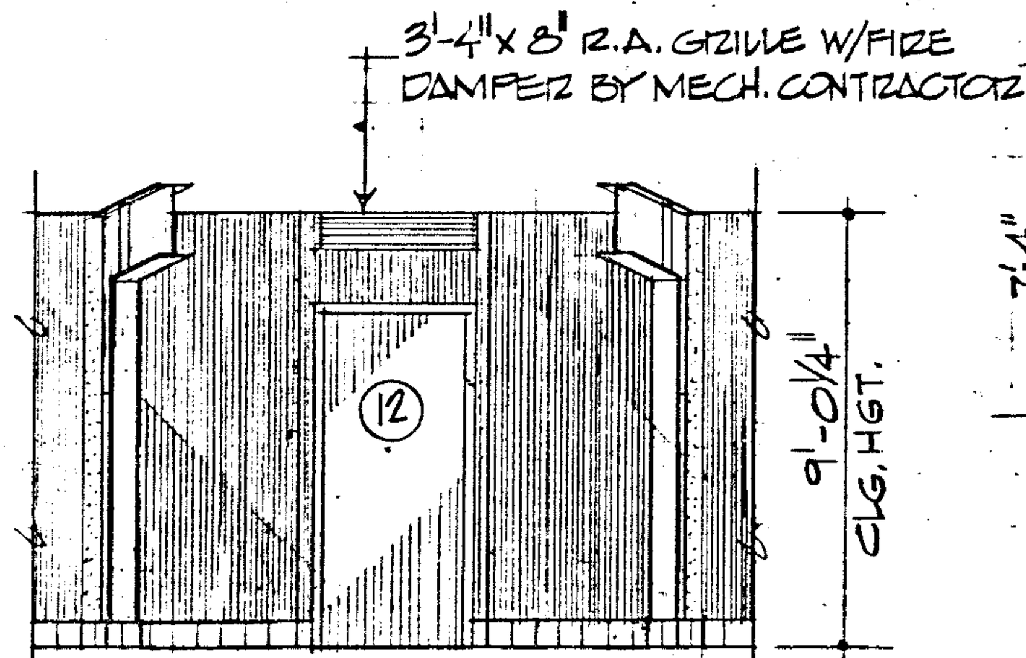
9F-03
BULLETIN BOARD DETAILS
SCALE 3" = 1'-0"



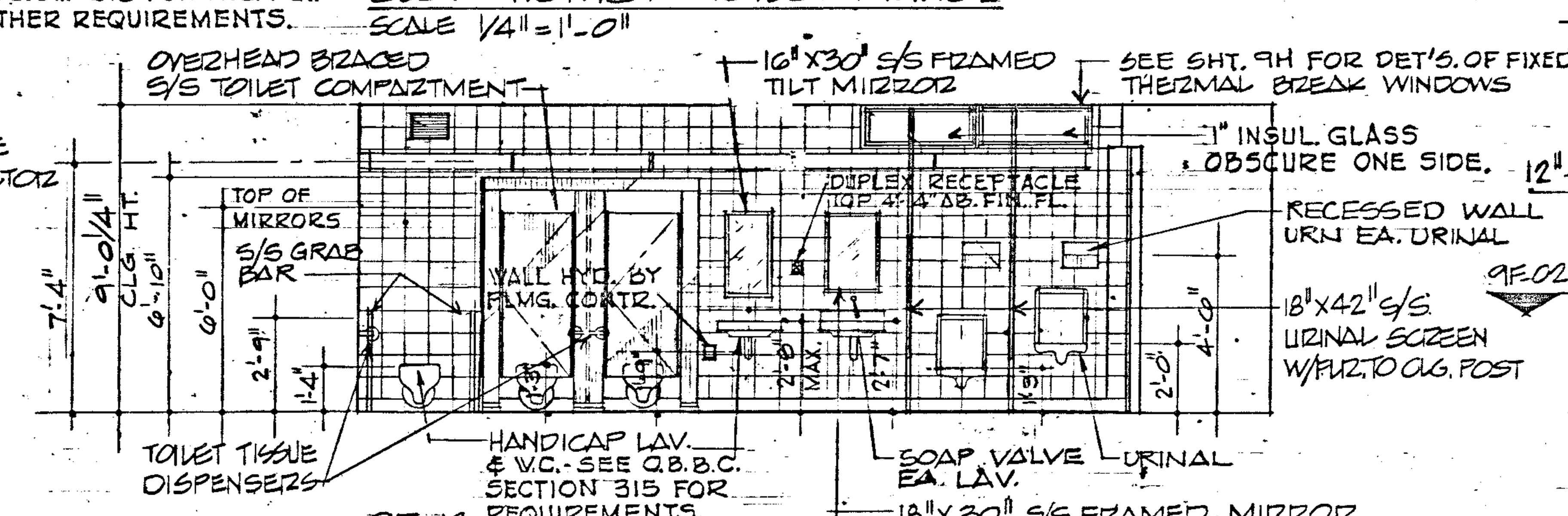
9F-04



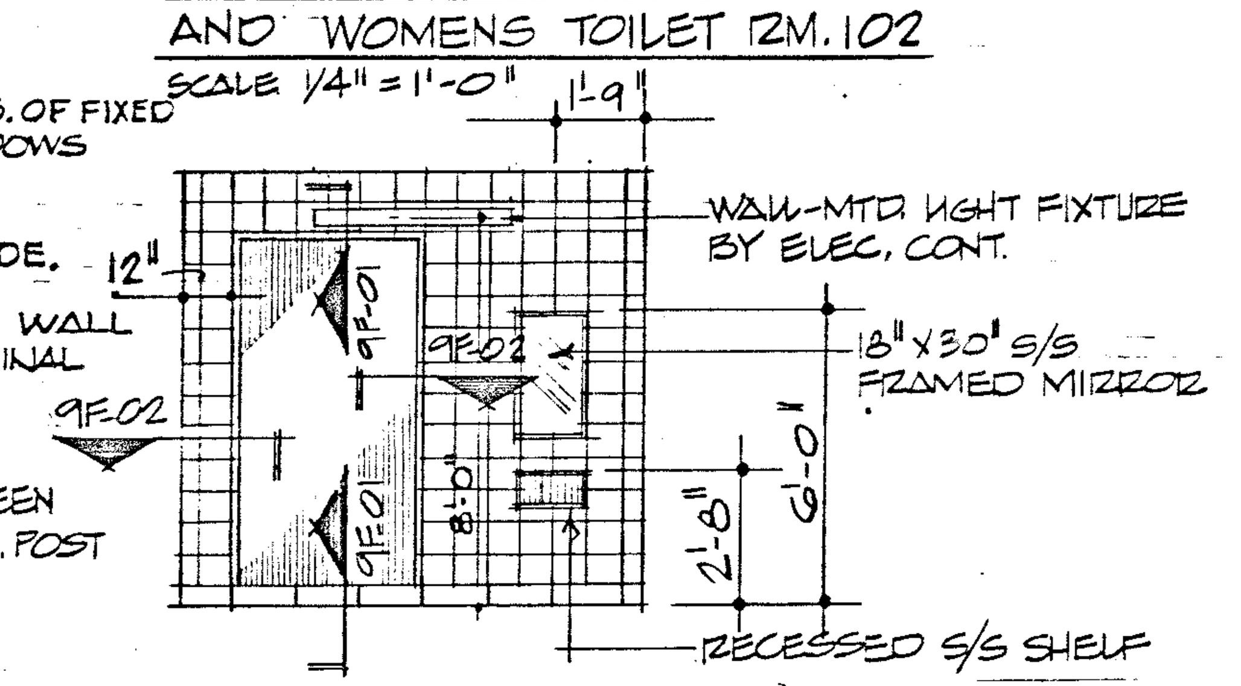
9F-05



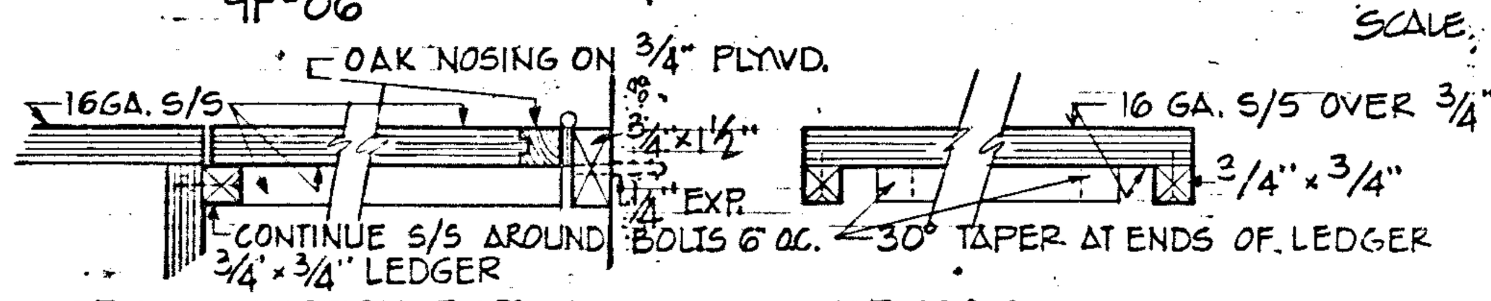
9F-06



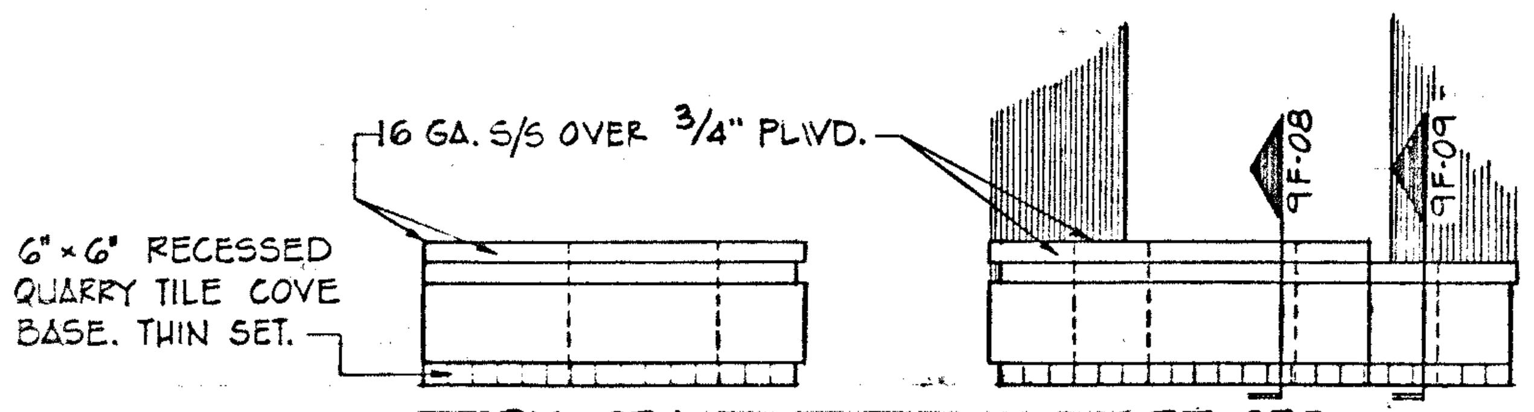
9F-13
ELEV. - MENS TOILET RM. 105
SCALE ¼" = 1'-0"



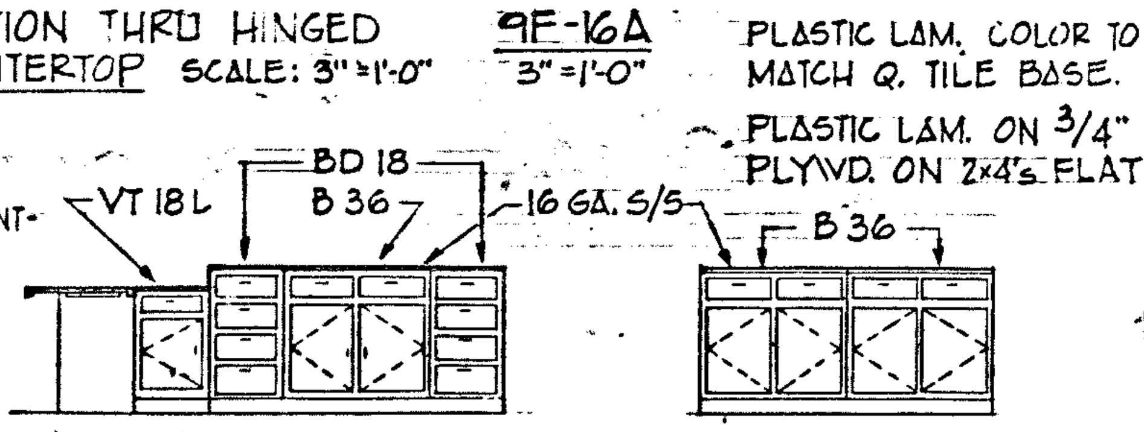
9F-15 ELEV. - MENS TOILET 105
AND WOMENS TOILET 102
SCALE ¼" = 1'-0"



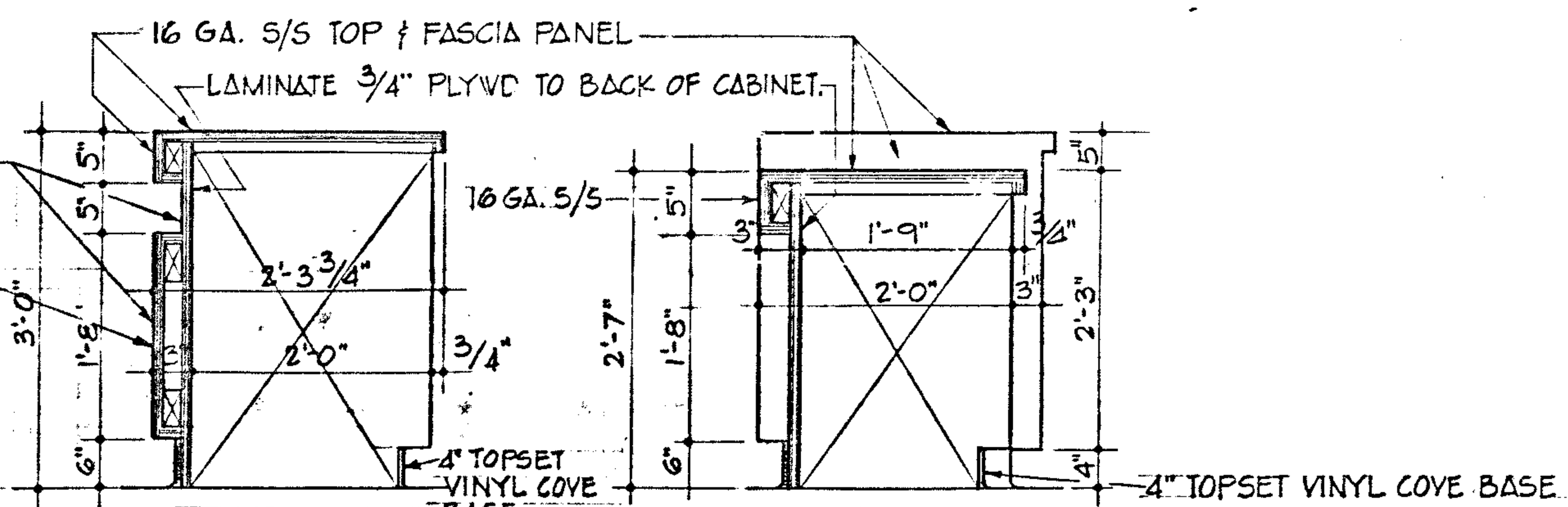
9F-16 SECTION THRU HINGED COUNTERTOP SCALE: 3" = 1'-0"
9F-16A 3" = 1'-0"



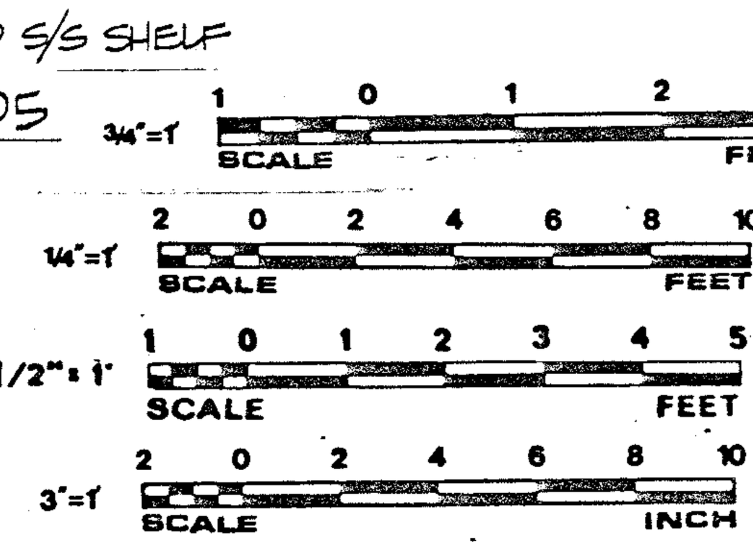
9F-07A 9F-07B 9F-07C
FRONT COUNTER ELEVATIONS SCALE: ¼" = 1'-0"



9F-10A 9F-10B
REAR COUNTER ELEVATIONS SCALE: ¼" = 1'-0"



9F-08 9F-09
COUNTER SECTIONS SCALE: ¾" = 1'-0"



OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

REVISIONS

MOTORIST SERVICES BUILDING AND STORAGE UNITS

SHEET NO. **9F**

DATE

ARCHITECTS • WRIGHT/KRITSCHGAU, ASSOCIATES, INC. 3600 TRABUE RD. COLUMBUS, OHIO
ENGINEERS • JOHN E. FOSTER & ASSOCIATES, COLUMBUS, OHIO
ENERGY TECHNOLOGIES • BATTELLE / COLUMBUS LABORATORIES

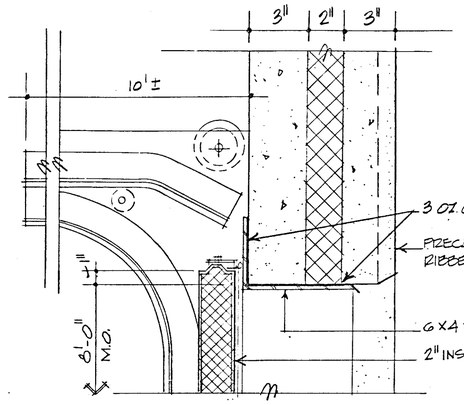
NOTE: DOORS 05, 06, 07 & 08 OCCUR IN STRUCTURES LOCATED ON EASTBOUND TRAFFIC SIDE OF HIGHWAY ONLY.

PROJECT	OHIO	35
I.R.-70-1(37)2		68
PREBLE COUNTY	FHWA REGION 5	
PRE-70-2.80		

DOOR SCHEDULE

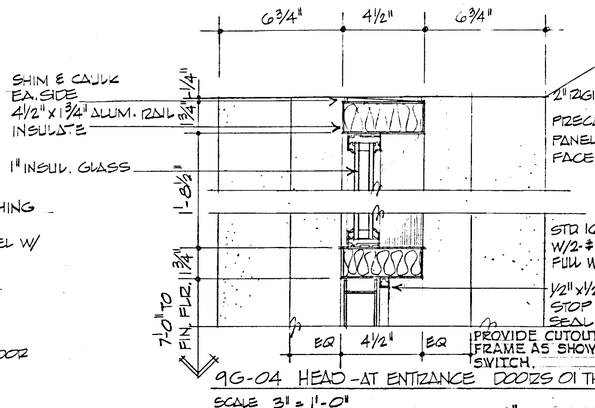
DOOR NO.	TYPE	SIZE	HARDWR.	JAMB DET.	REMARKS
01	9G-09	3'-0" x 7'-0" x 1 3/4"	A	9G-05	1" INSUL. & TRANSOM ABOVE - SEE 9G-04 & 9G-06
02	9G-09	3'-0" x 7'-0" x 1 3/4"	A	9G-05	" DO" W/4" HIGH (MIN.) CENTER STILE
03	9G-09	3'-0" x 7'-0" x 1 3/4"	A	9G-05	" DO"
04	9G-09	3'-0" x 7'-0" x 1 3/4"	A	9G-05	" DO"
05	9G-10	2 @ 11 1/2" x 6'-11 3/4" x 1 3/4"	E	9G-08	SEE HEAD DET. 9G-07. PROVIDE CUTOUT SHOWN.
06	9G-10	3'-0" x 7'-0" x 1 3/4"	F	9G-13	24" x 12" LOUVER
07	9G-10	3'-0" x 7'-0" x 1 3/4"	F	9G-13	1" UNDERCUT
08	9G-09	3'-0" x 7'-0" x 1 3/4"	B	9G-05	SEE HEAD DTL. 9G-15. PROVIDE CUTOUT SHOWN.
09	9G-09	3'-0" x 6'-10" x 1 3/4"	B	9G-12	
10	9G-10	3'-0" x 6'-10" x 1 3/4"	C	9G-14	
11	9G-10	3'-7 3/4" x 7'-2" x 1 3/4"	D	9F-02	4 REQUIRED - SPECIAL FRAME - SEE 9F-01 HD & SILL
12	9G-10	3'-0" x 6'-9 3/4" x 1 3/4"	C	9G-13	3 HOUR (A LABEL) DOOR & FRAME. SEE NOTE "A" BELOW.
13	9G-10	3'-0" x 7'-0" x 1 3/4"	E	9G-02	
14	9G-11	8'-2" x 8'-1" x 2"		9G-02	2" REGULAR CLEARANCE TRACK.
15	9G-09	3'-0" x 6'-10" x 1 3/4"	B	9G-12	
16	9G-10	3'-0" x 6'-10" x 1 3/4"	C	9G-14	

NOTE "A" PROVIDE CUTOUT IN FRAME FOR DOOR 12 SAME AS FOR DOOR 05. SEE 9G-07.



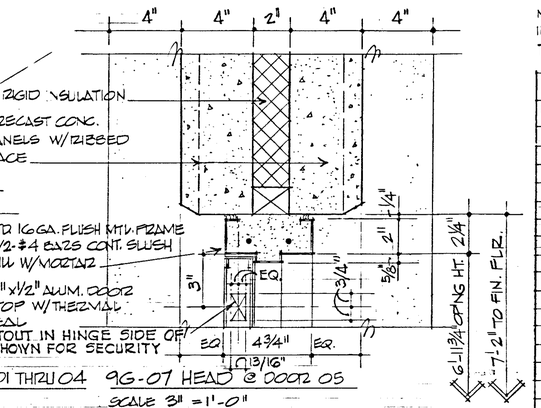
9G-01 HEAD - OVERHEAD DOOR

SCALE 3" = 1'-0"



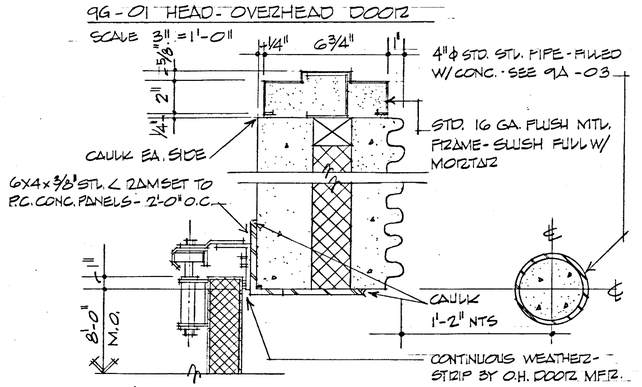
9G-04 HEAD - AT ENTIZANCE DOORS 01 THRU 04

SCALE 3" = 1'-0"



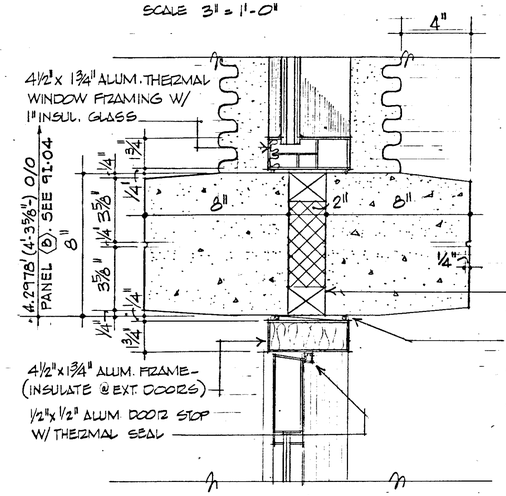
9G-07 HEAD @ DOOR 05

SCALE 3" = 1'-0"



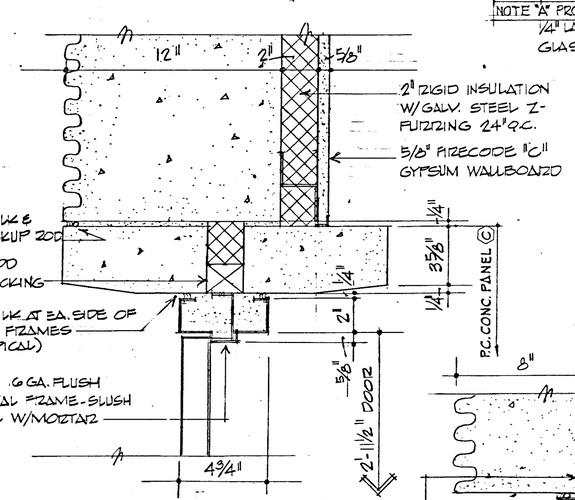
9G-02 JAMB - OVERHEAD DOOR & DOOR 13

SCALE 3" = 1'-0"



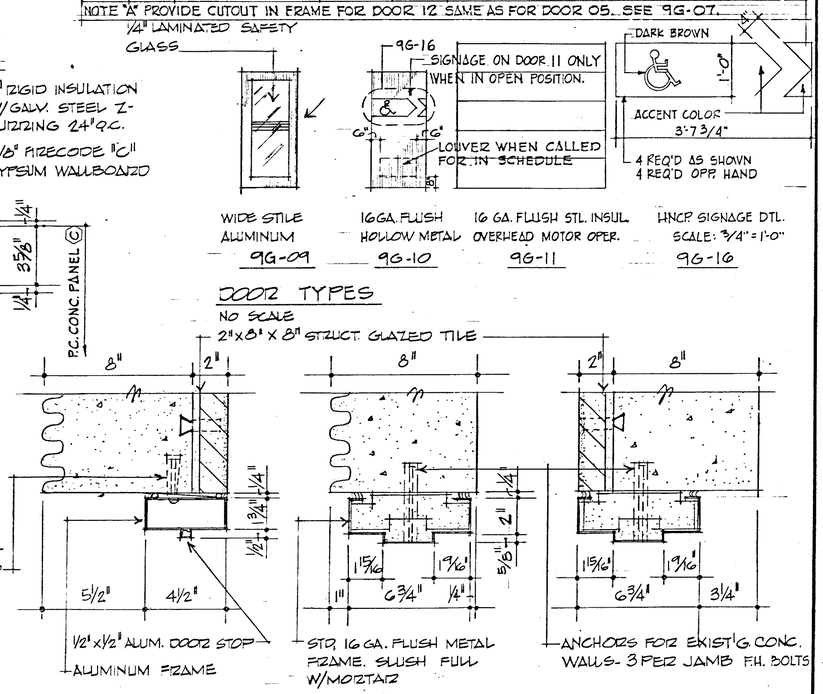
9G-05 JAMB - TYP. AT ENTRANCES

SCALE 3" = 1'-0"



9G-08 JAMB @ DOOR 05

SCALE 3" = 1'-0"



9G-12 9G-13 9G-14

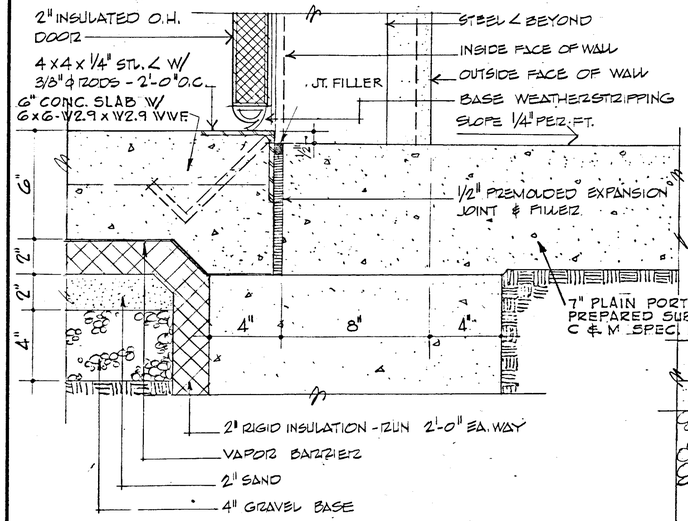
DOOR JAMB FRAMING DETAILS (HEADS SIMILAR)

SCALE 3" = 1'-0"

WIDE STILE ALUMINUM 9G-09 | 16GA. FLUSH HOLLOW METAL 9G-10 | 16 GA. FLUSH STL. INSUL. OVERHEAD MOTOR OPER. 9G-11 | HNCP. SIGNAGE DTL. SCALE: 3/4" = 1'-0" 9G-16

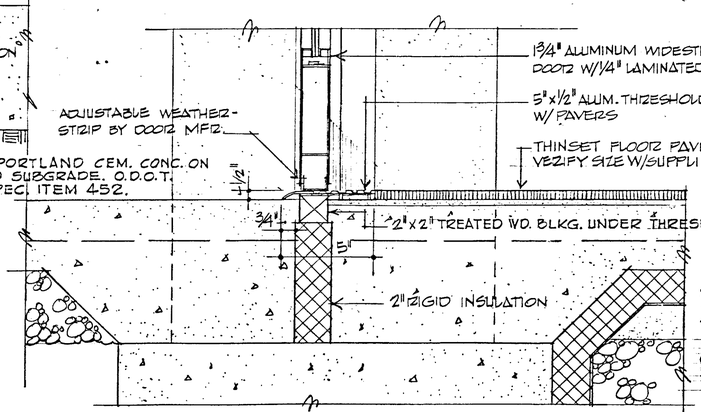
DOOR TYPES

NO SCALE



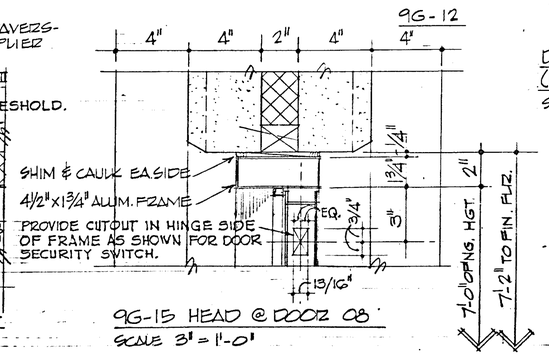
9G-03 SILL - OVERHEAD DOOR

SCALE 3" = 1'-0"



9G-06 SILL AT ENTRANCE DOORS 01 THRU 04

SCALE 3" = 1'-0"



9G-15 HEAD @ DOOR 08

SCALE 3" = 1'-0"

3/4"=1' SCALE FEET 1 0 1 2 3

3"=1' SCALE INCH 2 0 2 4 6 8 10

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

REVISIONS		SHEET NO.
9-6-84	MOTORIST SERVICES BUILDING AND STORAGE UNITS	9G
		DATE

ARCHITECTS • WRIGHT / KRITSCHGAU, ASSOCIATES, INC. 3600 TRABUE RD. COLUMBUS, OHIO
ENGINEERS • JOHN E. FOSTER & ASSOCIATES, COLUMBUS, OHIO
ENERGY TECHNOLOGIES • BATTELLE / COLUMBUS LABORATORIES

PROJECT I.R.-70-1(37)2 | OHIO | 36/68
PRESLE COUNTY PRE-70-2.80 | FHWA REGION 5


NOTE: SLOPE TOP OF FLUME ALONG NORTH-SOUTH AXIS SO THAT GLAZED AREA FACES SOUTH.
1/4" CLEAR PLASTIC GLAZING
SEE 9H-07
SEE 9H-08
TOP OF CONC. FLUME (HIGH POINT) 122'-7"
TOP OF CONC. FLUME (LOW POINT) 118'-0"
4"ϕ CAST IRON NO HUB PLUMBING VENT BY PLUMB CONT. - ALWAYS CARRY UP ON HIGH SIDE OF ONE FLUME ONLY. SEE SHT. 9Y.
POURED IN PLACE CONC. FLUME W/RIBBED FACE TO MATCH PRECAST CONC. PANELS
PAINT INSIDE FACE OF FLUME GLOSS WHITE FOR LIGHT REFLECTANCE
MEMBRANE ROOFING
2 LAYERS OF 2" RIGID INSULATION
2" PRECAST CONC. W/ 2"-6" STRUCTURAL CONC. TOPPING (VARIES)
AIR FLOW
12"x18" EXHAUST AIR DISCHARGE DUCT BY H.C. IN ONE FLUME ONLY. SEE SHT. 9AA.
START RIBS 4" ABOVE GRADE
2 LAYER COMPOSITE DRAINAGE MAT
9H-01 SECTION THRU TOP OF FLUME
SCALE 3/4" = 1'-0"
LAWN SPRINKLER PIPING. SEE SHT. 9W & 9WA.
16"x8"x2" STRUCTURAL GLAZED TILE
8" PRECAST CONC. PANEL
SEE 9J-04
SIM. TO 9J-03 & 9J-04
FLOOR DRAIN BY PLUMBING CONT.
2 1/2" FIXED THERMALBREAK ALUM. WINDOWS W/OBSCURE/CLEAR INSUL. GLASS (8 REQ'D.)
7'-0 1/4" TO FIN. FLOOR
9H-02 SECTION THRU BASE OF FLUME
SCALE 3/4" = 1'-0"
9J-03
9J-04
SEE 9H-10 & 9H-12
9H-03 SECTION THRU BASE OF FLUME
SCALE 3/4" = 1'-0"
2"W. x 2"D. x 1/4" THK. ALUMINUM TEES
2"W x 1/4" THK. MILL FINISH ALUMINUM SUPPORTS 2'-0" O.C. W/3/8" EXP. BOLT
1/4"ϕ WEEP HOLES 2'-0" O.C. BETWEEN RIBS OF CONC.
9H-07 TOP OF CONC. FLUME
SCALE 3" = 1'-0"
5"x5"x1/4" CONT. BUILT-UP ALUM. ANGLE FRAME W/NEOPRENE GASKET SYSTEM
1/4" x 1 1/4" F.H.S.S. BOLTS
BEVELED WASHER
ALUM. INSECT SCREEN - CONTINUOUS
1/4"x1" ALUM. BAR STOCK CONT. AT TOP & BOTTOM OF SCREEN
1/4"ϕ WEEP HOLES 2'-0" O.C. BETWEEN RIBS.
9H-08 TOP OF CONC. FLUME
SCALE 3" = 1'-0"
9H-09 TOP OF CONC. FLUME
SCALE 3" = 1'-0"
12" PRECAST CONCRETE
W8x21 SEE 9T-01 & 9T-04
1" RIGID INSULATION
REINFORCED CONC. BEAM - SEE DWG. # 9T-04
CAULK
CLIP L 3"x2 1/2"x5/16" LLH SEE 9T-01 & 9T-04
L4x4x5/16"
2 1/2" FIXED THERMAL BREAK ALUM. WINDOW W/OBSCURE/CLEAR INSUL. GLASS
9H-10 HEAD-ALUMINUM WINDOW
SCALE 3" = 1'-0"
2"x8"x3" STRUCTURAL GLAZED TILE
SHIM & CAULK E.S.
9H-11 JAMB-ALUMINUM WINDOW
SCALE 3" = 1'-0"
REGLET SET IN CONC. WALL OR PRECAST PANEL
MEMBRANE ROOFING (ADHERED SYSTEM) CARRY UP & UNDER WINDOW
SHIM & CAULK E.S.
SEE 9J-04
8" PRECAST CONC. PANEL
9H-12 SILL-ALUMINUM WINDOW
SCALE 3" = 1'-0"
5"x5"x1/4" CONT. BUILT-UP ALUMINUM ANGLE FRAME STRUCTURAL & SEAL WELDED
NEOPRENE GASKET SYSTEM
ALUMINUM TEES
9H-13 PLAN DETAIL
SCALE 3" = 1'-0"
ALUMINUM TEE STRUCTURAL & SEAL WELDED
NEOPRENE GASKET SYSTEM
9H-14 PLAN DETAIL
SCALE 3" = 1'-0"
1" LAWN SPRINKLER PIPING. SEE SHT. 9WA
3'-0"x2'-6" SINGLE LEAF INSULATED ROOF HATCH
CONC. SLAB W/MEMBRANE ROOFING (SLOPE SLAB TO DRAIN)
FLR. DRAIN BY PLUMBING CONT.
9H-04 PARTIAL PLAN @ SLAB BELOW WINDOWS
SCALE: 3/8" = 1'-0"
PLUMBING VENT IN ONE FLUME & EXH. DUCT IN OTHER FLUME. SEE SHT. 9Y & 9AA.
9H-05 PARTIAL PLAN @ START OF CONC. FLUME
SCALE: 3/8" = 1'-0"
SEE 9H-13
SEE 9H-14
9H-06 PLAN OF GLASS @ TOP OF CONC. FLUME
SCALE: 3/8" = 1'-0"
3/8" = 1' SCALE FEET
3/4" = 1' SCALE FEET
3" = 1' SCALE INCH

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

REVISIONS

MOTORIST SERVICES BUILDING AND STORAGE UNITS

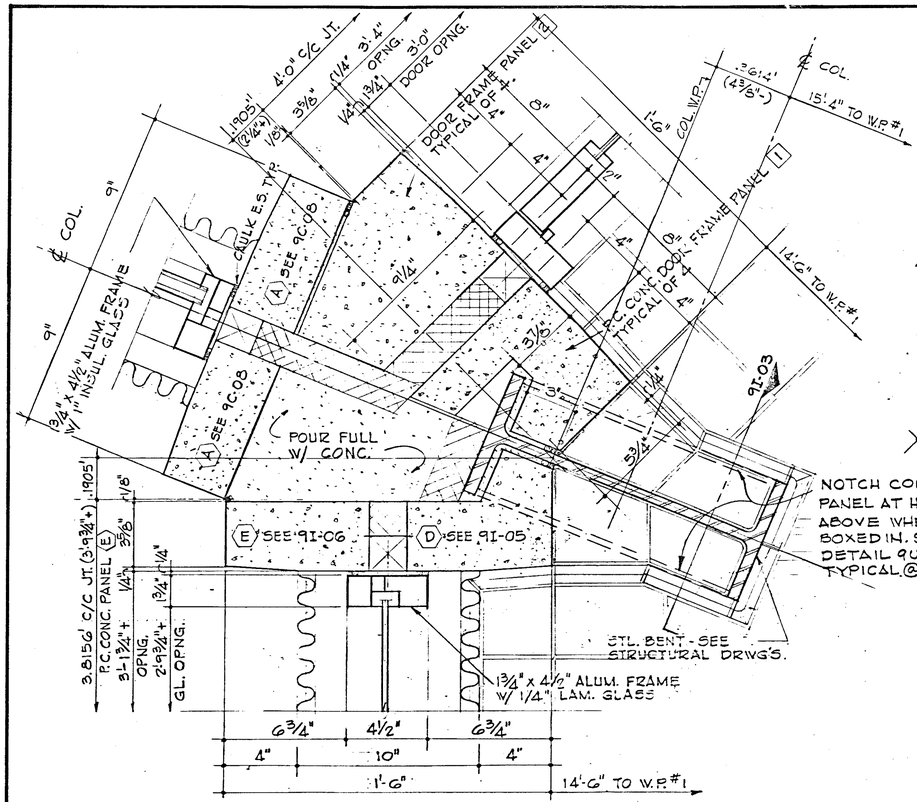
SHEET NO. 9H

ARCHITECTS • WRIGHT/KRITSCHGAU, ASSOCIATES, INC. 3600 TRABUE RD. COLUMBUS, OHIO
ENGINEERS • JOHN E. FOSTER & ASSOCIATES, COLUMBUS, OHIO
ENERGY TECHNOLOGIES • BATTELLE/COLUMBUS LABORATORIES

DATE

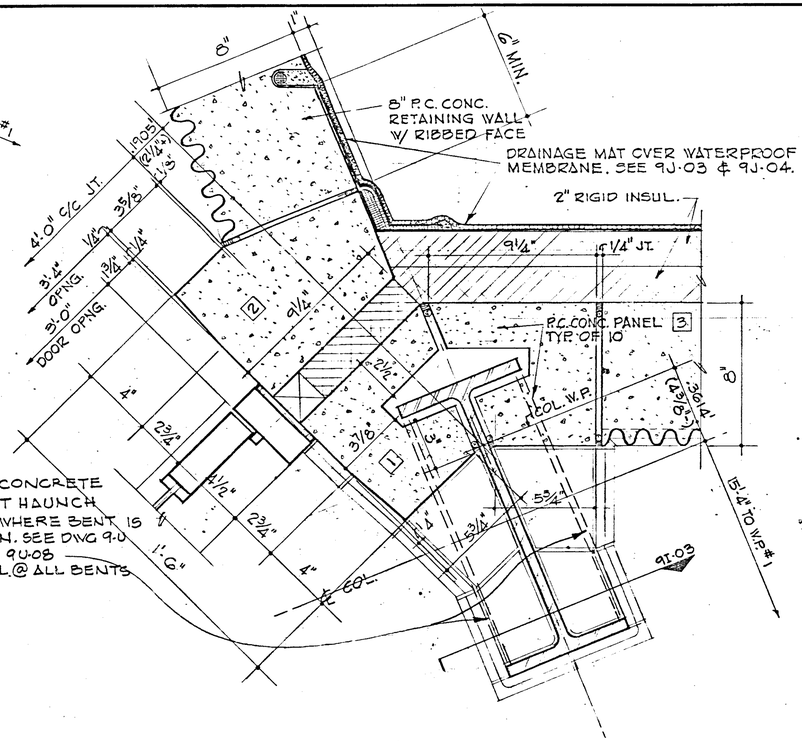
PROJECT	OHIO
I.R.-70-1(37)2	
PREBLE COUNTY	FHWA REGION 5
PRE-70-2.80	

37/68



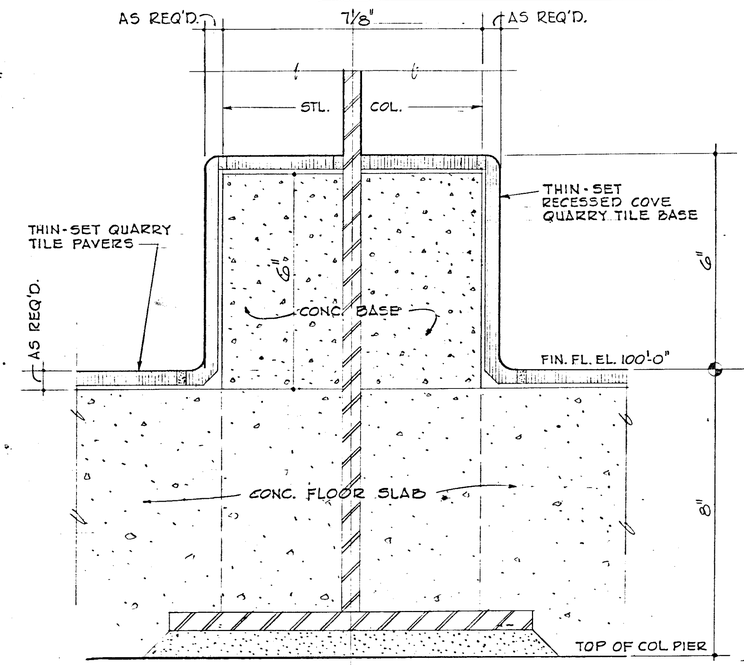
91-01 PRECAST CONCRETE PANEL DETAILS @ DOOR, WINDOW & STL. BENT

SCALE 3" = 1'-0"



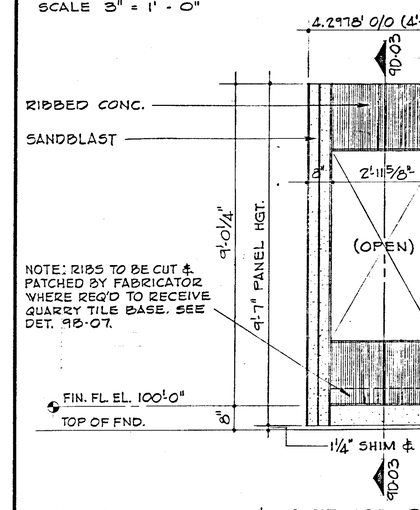
91-02 PRECAST CONCRETE PANEL DETAILS @ DOOR JAMB & STEEL BENT

SCALE 3" = 1'-0"



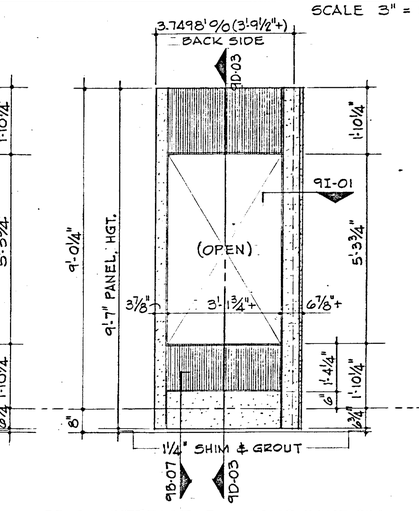
91-03 TYPICAL QUARRY TILE BASE DETAIL @ STL. BENTS

SCALE = HALF SIZE



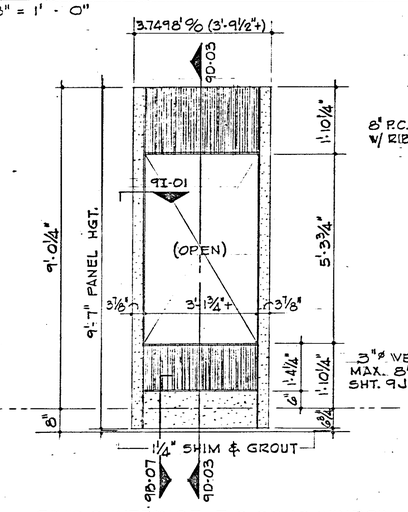
91-04 INTERIOR & EXTERIOR P.C. CONC. WINDOW PANEL (D) (4 REQ'D.)

SCALE 1/2" = 1'-0"



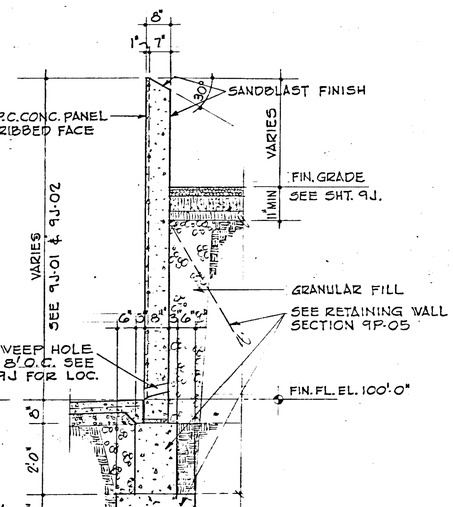
91-05 INTERIOR P.C. CONC. WINDOW PANEL (D) (ONE THUS & ONE OPP. HD.

SCALE 1/2" = 1'-0"



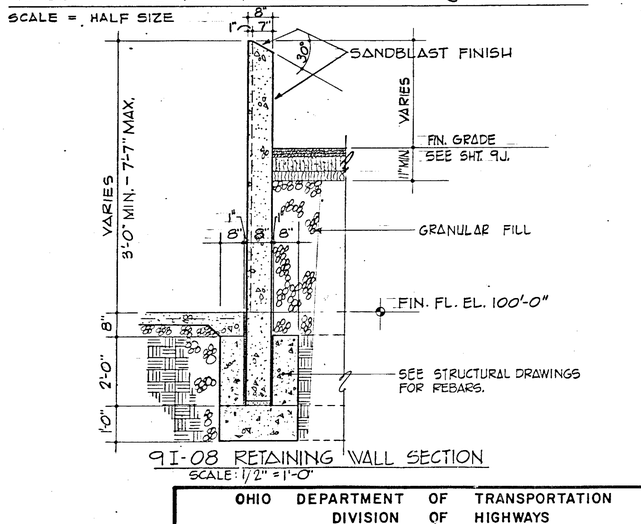
91-06 INTERIOR P.C. CONC. WINDOW PANEL (E) (2 REQ'D.)

SCALE 1/2" = 1'-0"



91-07 TYP. RETAINING WALL SECTION

SCALE 1/2" = 1'-0"



91-08 RETAINING WALL SECTION

SCALE 1/2" = 1'-0"

1/2" = 1" SCALE 1 0 1 2 3 4 5 FEET

1/2" = 1' SCALE 1 0 1 2 3 4 5 FEET

3" = 1' SCALE 2 0 4 6 8 10 INCH

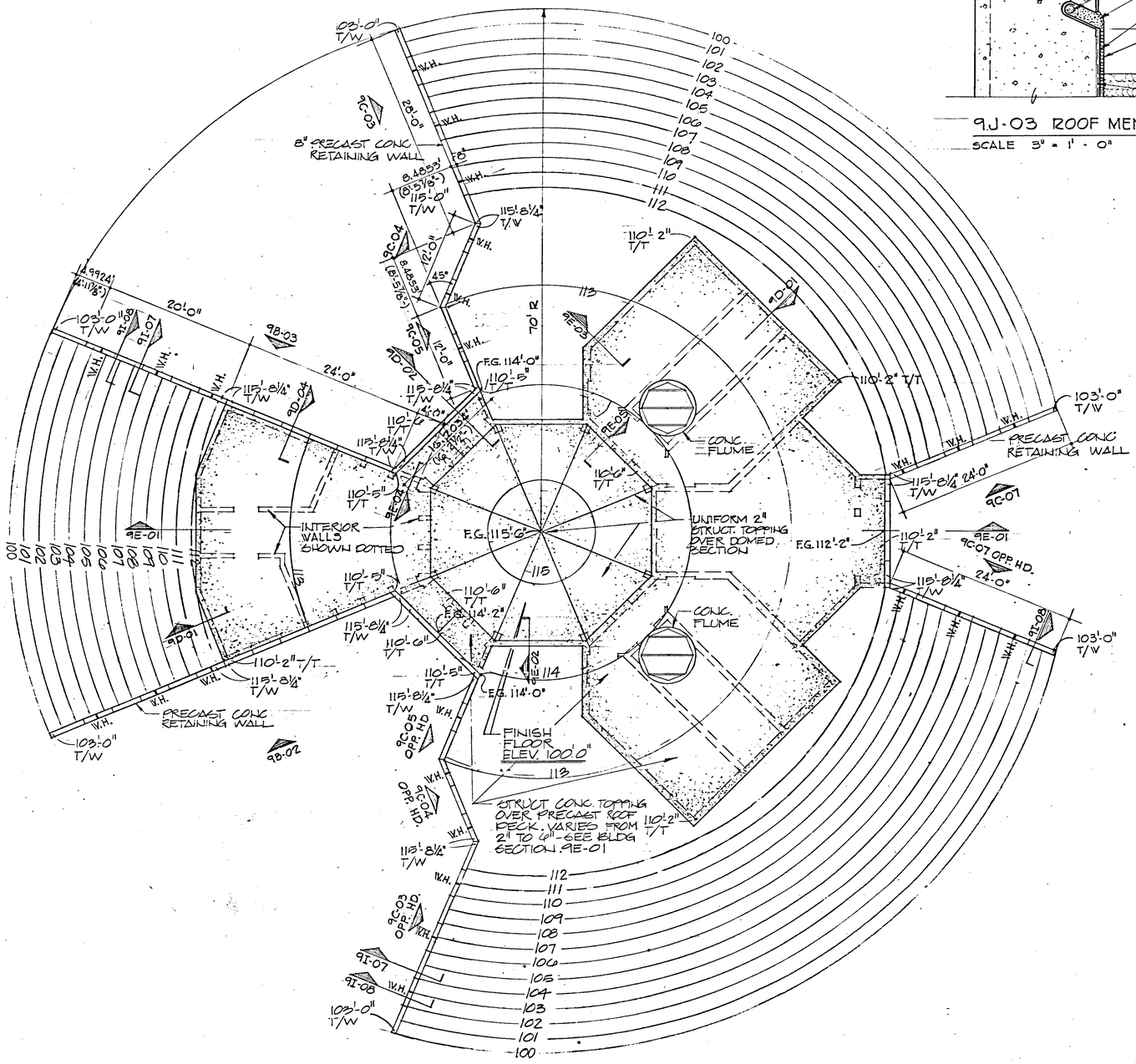
OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

REVISIONS	MOTORIST SERVICES BUILDING AND STORAGE UNITS	SHEET NO. 9I
	ARCHITECTS • WRIGHT / KRITSCHGAU, ASSOCIATES, INC. 3600 TRABUE RD. COLUMBUS, OHIO ENGINEERS • JOHN E. FOSTER & ASSOCIATES, COLUMBUS, OHIO ENERGY TECHNOLOGIES • BATTELLE / COLUMBUS LABORATORIES	DATE

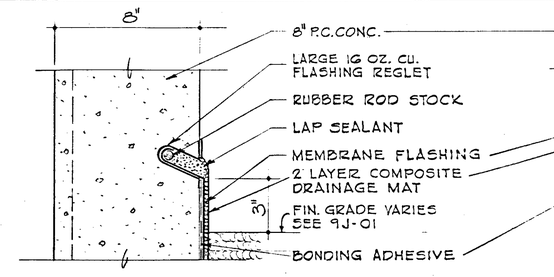
PROJECT	OHIO	38
I.R.-70-1(37)2		68
PREBLE COUNTY	FHWA REGION 5	
PRE-70-2.80		

LEGEND

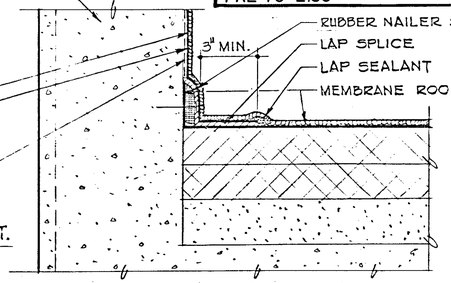
T/W TOP OF WALL ELEVATION
T/T TOP OF STRUCT. CONC. TOPPING ELEVATION
—000— PROPOSED CONTOUR LINE
F.G. PROPOSED FINISHED GRADE ELEVATION
W.H. 3"ϕ WEEP HOLE LOCATION



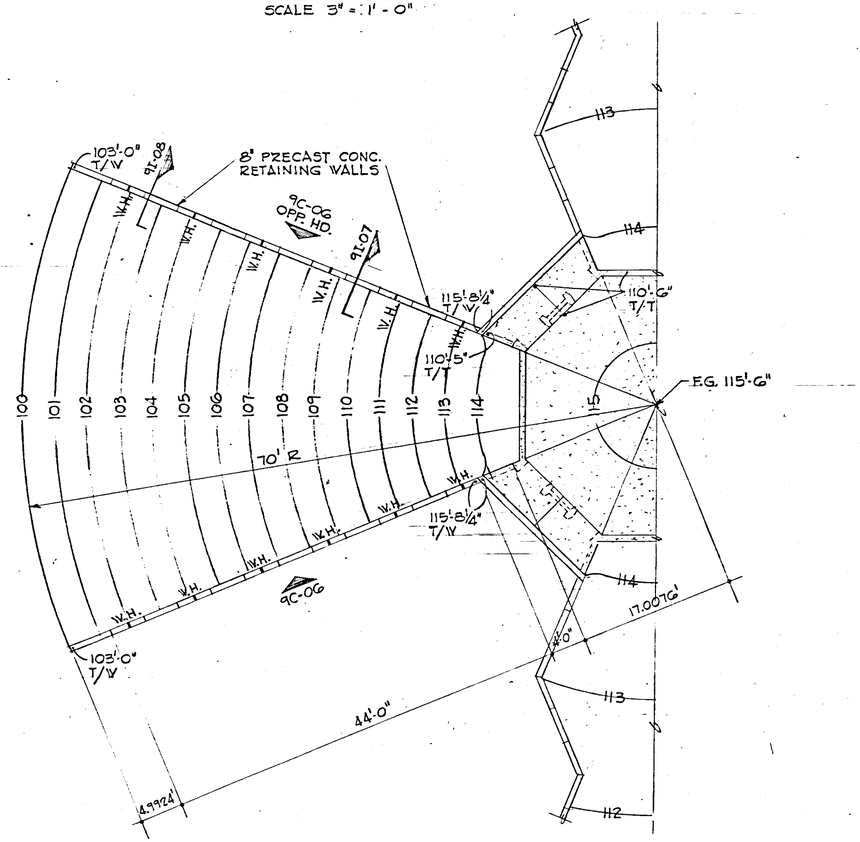
9J-01 ROOF, RETAINING WALLS & GRADING PLAN (EASTBOUND TRAFFIC)
SCALE 1/8" = 1' - 0"



9J-03 ROOF MEMBRANE TERMINATION DET.
SCALE 3" = 1' - 0"



9J-04 ROOFING DETAIL @ VERTICAL WALL
SCALE 3" = 1' - 0"



9J-02 PARTIAL ROOF, RETAINING WALLS & GRADING PLAN (OUTBOUND TRAFFIC)
SCALE 1/8" = 1' - 0"

3"=1' SCALE INCH
1/8"=1' scale feet

OHIO DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS		
REVISIONS	MOTORIST SERVICES BUILDING AND STORAGE UNITS	SHEET NO. 9J
	ARCHITECTS • WRIGHT / KRITSCHGAU, ASSOCIATES, INC. 3600 TRABUE RD. COLUMBUS, OHIO ENGINEERS • JOHN E. FOSTER & ASSOCIATES, COLUMBUS, OHIO ENERGY TECHNOLOGIES • BATTELLE / COLUMBUS LABORATORIES	DATE

NOTE: LANDSCAPE QUANTITIES CARRIED TO SHEET Nº 5 & 6.

EB	WB	ITM	QTY	UN.	ESTIMATED QUANTITIES
522	522	SP.	1044	L.F.	1/8" x 4" STEEL EDGING W/STAKES
950	950	SP.	1900	S.Y.	SEEDING WITH WILDFLOWER MIX
8	8	SP.	16	EA.	6' WOOD BENCH
950	950	659	1900	S.Y.	MULCHING
0.09	0.09	659	0.18	TON	COMMERCIAL FERTILIZER

WB	EB	ITM	QTY	UN.	ESTIMATED QUANTITIES
204	206	451	410	S.Y.	6" REINFORCED PORTLAND CEMENT CONC. PAVMT. W/TILED ROUNDS
51	51	452	102	S.Y.	7" PLAIN PORTLAND CEMENT CONC. PAVEMENT, AS PER PLAN
78	78	660	156	S.Y.	SODDING, AS PER PLAN
950	950	668	1900	S.Y.	EXCELSIOR MATTING

CALC. BY / DATE	PROJECT I.R.-70-1(37)2	OHIO	39/68
CHKD. BY / DATE	PREBLE COUNTY PRE-70-2.80	FHWA REGION 5	

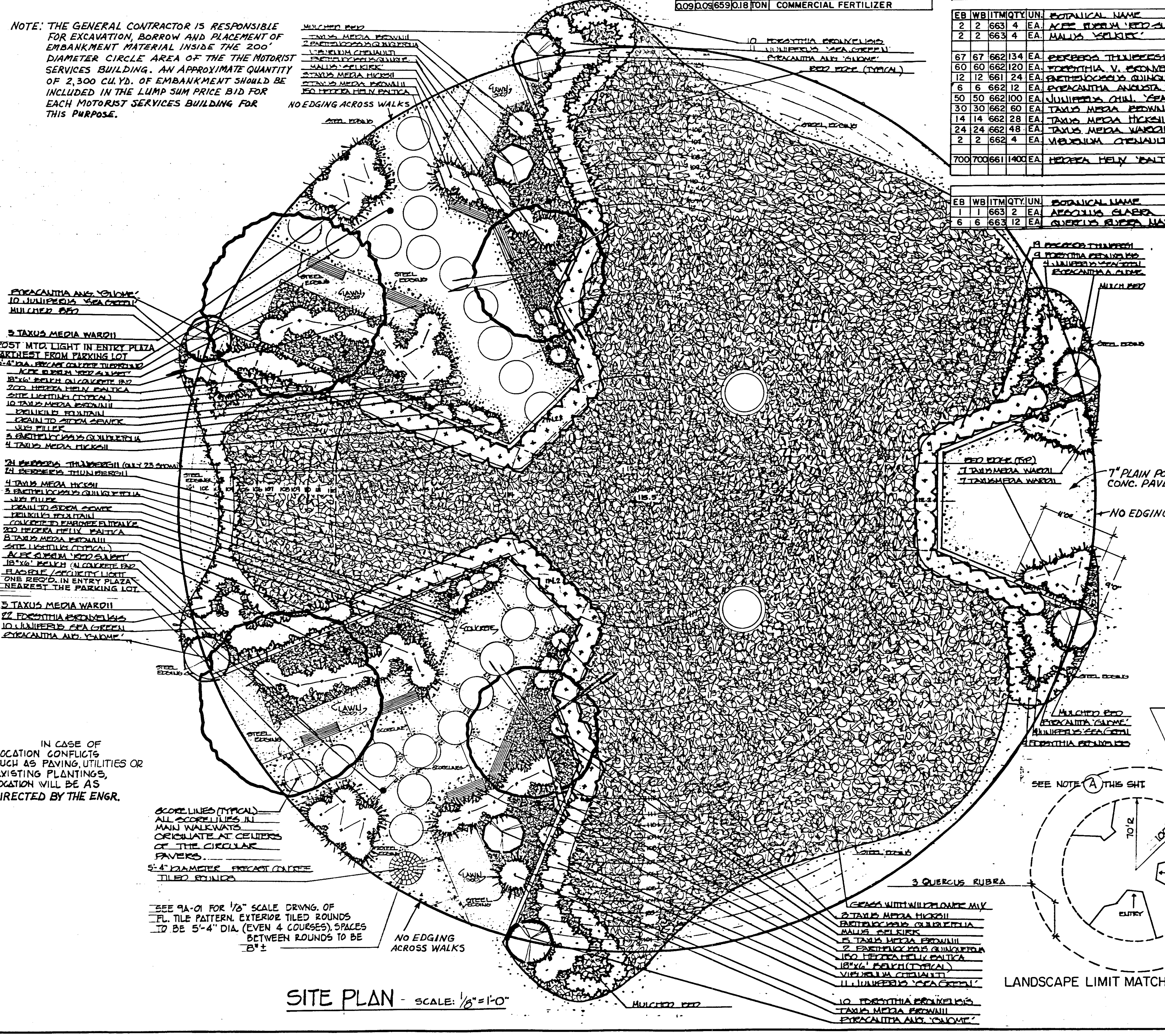
NOTE: THE GENERAL CONTRACTOR IS RESPONSIBLE FOR EXCAVATION, BORROW AND PLACEMENT OF EMBANKMENT MATERIAL INSIDE THE 200' DIAMETER CIRCLE AREA OF THE THE MOTORIST SERVICES BUILDING. AN APPROXIMATE QUANTITY OF 2,300 CU. YD. OF EMBANKMENT SHOULD BE INCLUDED IN THE LUMP SUM PRICE BID FOR EACH MOTORIST SERVICES BUILDING FOR THIS PURPOSE.

PLANT LIST - SITE PLAN

EB	WB	ITM	QTY.	UN.	BOTANICAL NAME	COMMON NAME	SIZE/COND. SPACING	REMARKS/REVISIONS
2	2	663	4	EA.	ACER RUBRUM 'RED SUNSET'	RED SUNSET RED MAPLE	3-3½" B&B 38" A.S.	
2	2	663	4	EA.	MALUS 'SELKIRK'	SELKIRK CRABAPPLE	2-2½" B&B 28" A.S.	ALT. MALUS RED BARON
67	67	662	134	EA.	BERBERIS THUNBERGII	JAPANESE BARBERRY	30" 3 CONT. 3'O.C.	BERBERIS x MENTORENSIS (WHERE HARDY)
60	60	662	120	EA.	FORSYTHIA V. BRONXENSIS	BRONX FORSYTHIA	15-18" 3 CONT. 30" O.C.	COTONEASTER DAM. 'ROYAL BEAUTY' (ALTER.)
12	12	661	24	EA.	PARTHENOCISSUS QUINQUEFOLIA	VIRGINIA CREEPER	2 YR. 2 CONT. A.S.	
6	6	662	12	EA.	PYRACANTHA ANGUSTA 'GNOME'	GNOME PYRACANTHA	3'-4' 5 CONT. A.S.	
50	50	662	100	EA.	JUNIPERUS CHIN. 'SEA GREEN'	SEA GREEN JUNIPER	30" 5 CONT. 3'O.C.	
30	30	662	60	EA.	TAXUS MEDIA BROWNII	BROWNS YEW	24" B&B 12" 4'O.C.	ALT. TAXUS MEDIA SEBIAN
14	14	662	28	EA.	TAXUS MEDIA HICKSII	HICKS YEW	30" B&B 14" A.S.	
24	24	662	48	EA.	TAXUS MEDIA WARDII	WARDS YEW	24" B&B 12" 4'O.C.	
2	2	662	4	EA.	VIBURNUM CHENAULTI	CHENAULT VIBURNUM	2½-3' B&B 12" A.S.	ALT. VIBURNUM BURKWOODII
700	700	661	1400	EA.	HEDERA HELIX 'BALTICA'	BALTIC ENGLISH IVY	2¼" PP. 6" O.C.	ALT. 2 YR. R.C. 4-15 TO 5-15 / ALT. H.H. WILSONII

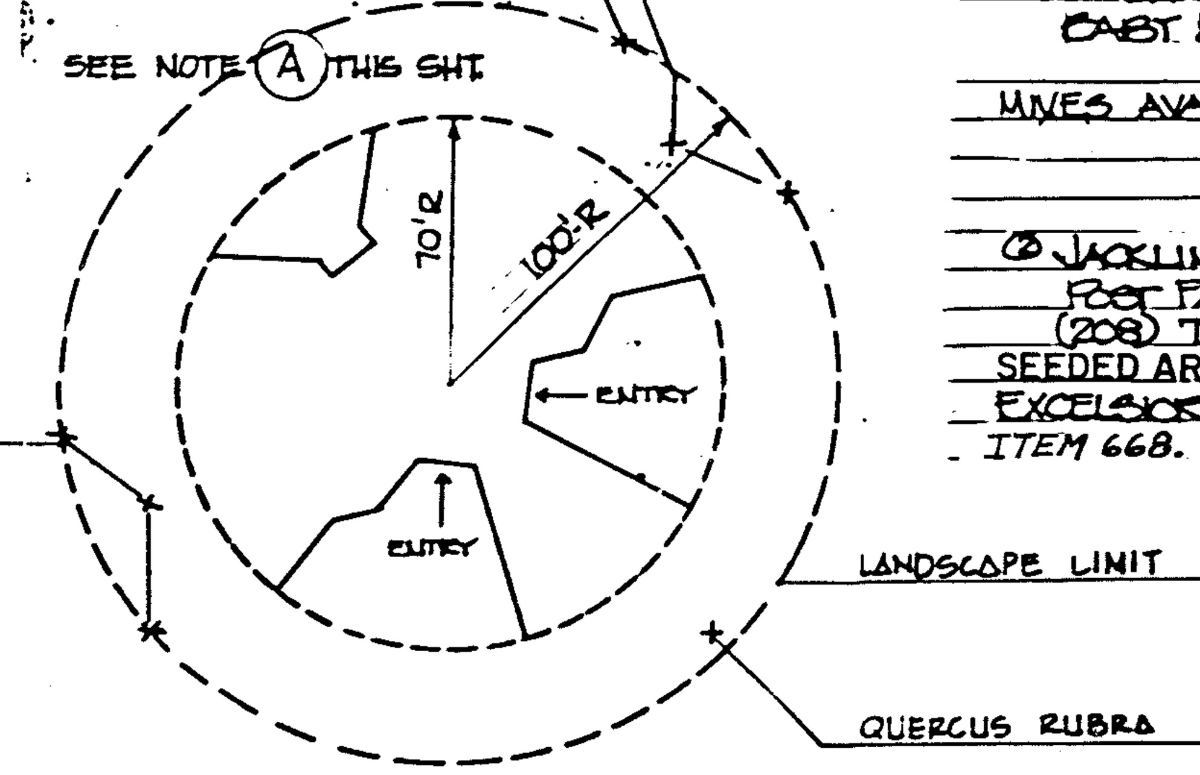
PLANT LIST - LANDSCAPE LIMIT MATCHLINE

EB	WB	ITM	QTY.	UN.	BOTANICAL NAME	COMMON NAME	SIZE/COND. SPACING	REMARKS/REVISIONS
1	1	663	2	EA.	AESCULUS GLABRA	OHIO BUCKEYE	1¾-2" B&B 24" A.S.	
6	6	663	12	EA.	QUERCUS RUBRA MAXIMA	EASTERN RED OAK	2½-3" B&B 32" A.S.	ALT. QUERCUS BOREALIS



SITE PLAN - SCALE: 1/8" = 1'-0"

(A) IN CASE OF LOCATION CONFLICTS SUCH AS PAVING, UTILITIES OR EXISTING PLANTINGS, LOCATION WILL BE AS DIRECTED BY THE ENGR.



LANDSCAPE LIMIT MATCHLINE SCALE: 1" = 50'

GENERAL NOTES:

1. FOR GENERAL NOTES ON PLANTING, REFER TO STATE OF OHIO, DEPT. OF TRANSPORTATION GENERAL NOTES.

2. FOR PLANTING DETAILS SEE BUREAU OF DESIGN SERVICES STANDARD CONSTRUCTION DRAWING LA-2. RECOMMEND CHANGING WIRE ON ALL TREES UNDER 3" CALIPER TO BE NO. 14 WIRE.

3. THIS PLANT LIST WAS SELECTED TO PERFORM WELL IN ALL REGIONS OF THE STATE. SUBSTITUTIONS SHOULD BE ALLOWED ONLY IF EVIDENCE IS GIVEN TO SHOW THAT RECOMMENDED PLANTS WILL NOT PERFORM ON A PARTICULAR SITE.

4. SOD WITHIN LANDSCAPE LIMIT LINE WILL BE COMPOSED OF AN APPROVED MIXTURE OF DISEASE RESISTANT AND DRAUGHT TOLERANT GRASSES, IMPROVED KENTUCKY BLUE GRASSES, FINE PERENNIAL RYES & IMPROVED CREEPING RED FESCUES: SOD SHALL BE WEED FREE AND COMMERCIALLY CULTIVATED (NURSERY GROWN). GRASSES NO TALLER THAN 2" WHEN INSTALLED. INSTALLATION WILL BE AS SPECIFIED IN O.D.O.T. CONSTRUCTION AND MATERIAL SPECIFICATIONS 660.

5. ENTRY PLAZAS ARE TO BE CONSTRUCTED AS SHOWN ON THIS SHEET AND ON THE 1/4 SCALE PLAN, EXCEPT AS MODIFIED BY THE SITE PLAN. THE WALK SHOWN TO THE EMPLOYEES ENTRANCE IS TO BE CONSTRUCTED ONLY WHEN THERE IS A VISITORS INFORMATION CENTER. OTHERWISE THE PLANTING WILL BE AS SHOWN ON THE ENTRY PLAZA WITHOUT THE WALK.

6. SERVICE ACCESS SHOWN MAY HAVE TO ACCOMMODATE TRAFFIC FROM THE DIRECTION OF THE PLANTING, IN WHICH CASE THE SCREENING WILL BE PLANTED ON THE OTHER SIDE OF PAVEMENT.

7. TILED ROUNDS MAY BE PRE-CAST AND TILED, OR CAST AND TILED IN PLACE; BUT IN EITHER CASE MUST BE IN PLACE BEFORE REST OF PAVEMENT IS POURED. A *PRE-FORMED* EXPANSION JOINT *MATL. 705.03* SHALL BE INSTALLED BETWEEN PRE-CAST AND CAST IN PLACE CONCRETE AND DOWELLS INSTALLED CONNECTING THE TWO MATERIALS (SEE DETAIL, SHEET #9L) TO PREVENT EVENTUAL FLUCTUATIONS IN LEVEL.

SEEDING *WITH WILDFLOWER MIX:*
SEEDING SHALL BE WITH 3 POUNDS OF URBAN MIXTURE (659.09) AND 1/2 POUND OF THE FOLLOWING WILDFLOWER MIX PER 1,000 SQ. FT. WILDFLOWER SEED MIX TO CONTAIN 12 OR MORE OF THE FOLLOWING VARIETIES:

SWEET WILLIAM CATCHFLY	SCARLET FLAX	LANCELEAF COREOPSIS
BACHELOR'S BUTTON	BABYS BREATH	BABY SNAPDRAGONS
BLACK EYED SUSAN	CORN POPPY	EVENING PRIMROSE
ROCKET LARKSPUR	BLUE FLAX	SIBERIAN WALLFLOWER
DAMES ROCKET	SWEET ALYSSUM	POOR MAN'S WEATHER GLASS
CLASPING CONEFLOWER	ICELAND POPPY	INDIAN BLANKET
BABY BLUE EYES	BIRD'S EYES	

MIXES AVAILABLE FROM: ① VAUGHN'S SEED CO.
5300 KATRINE AVE.
DOWNER'S GROVE, ILL. 60515

② JACKLIN SEED CO.
POST FALLS, ID 83854
(208) 773-7581

③ LOFTS PEDIGREED SEED, INC.
NEW JERSEY
(201) 356-8700

SEEDED AREA SHALL BE MULCHED & FERTILIZED AS PER ITEM 659.
EXCELSIOR MATTING TO BE USED OVER SEEDING ON ALL SLOPES, AS PER ITEM 668.

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

REVISIONS 8-4-83

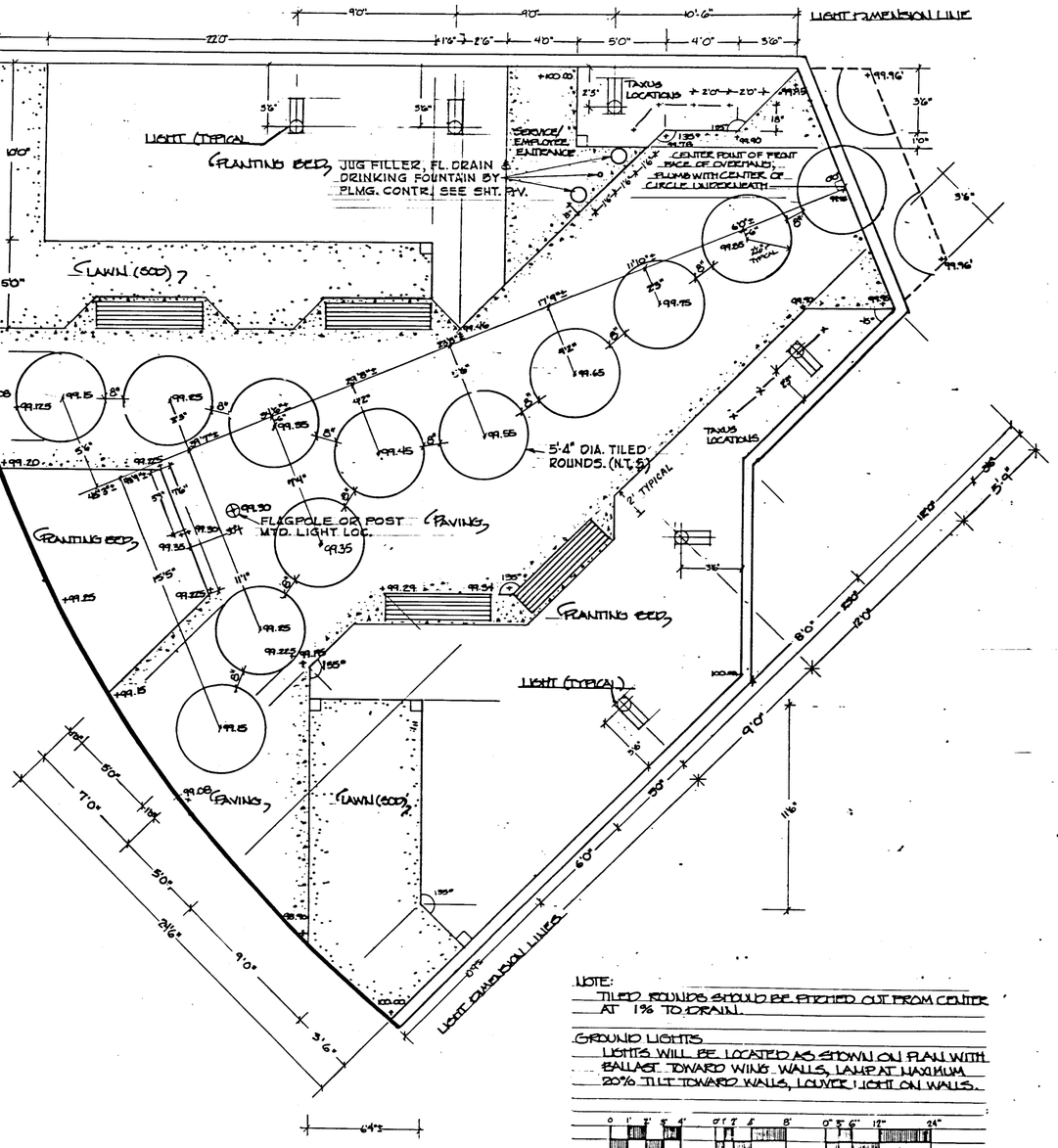
MOTORIST SERVICES BUILDING AND STORAGE UNITS

SHEET NO. 9K

DATE

ARCHITECTS • WRIGHT/KRITSCHGAU, ASSOCIATES, INC. 3600 TRABUE RD. COLUMBUS, OHIO
ENGINEERS • JOHN E. FOSTER & ASSOCIATES, COLUMBUS, OHIO
ENERGY TECHNOLOGIES • BATTELLE / COLUMBUS LABORATORIES
LANDSCAPE ARCHITECTS • LAND TECHNIQUES, DELA., OHIO

PROJECT	OHIO	40
I.R.-70-1(37)2		68
PREBLE COUNTY PRE.-70-2.80	FHWA REGION 5	

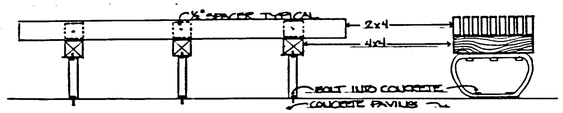


ENTRY PLAZA DIMENSION PLAN
SCALE: 1/4" = 1'0"

NOTE:
TILED ROUNDS SHOULD BE PITCHED OUT FROM CENTER AT 1% TO DRAIN.

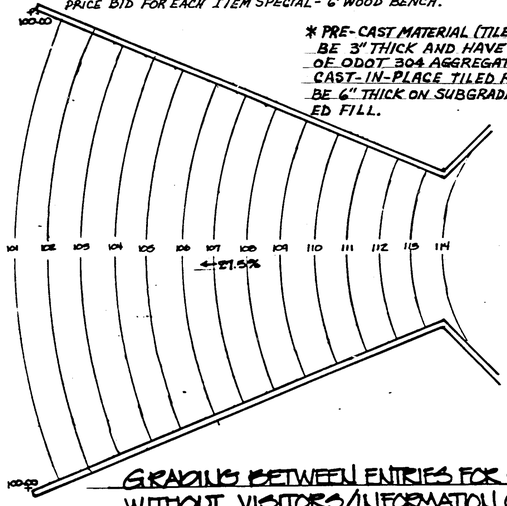
GROUND LIGHTS
LIGHTS WILL BE LOCATED AS SHOWN ON PLAN WITH BALLAST TOWARD WING WALLS, LAMP AT MAXIMUM 20% TILT TOWARD WALLS, LOUVER LIGHT ON WALLS.

WOOD WILL BE OF CLEAR HEARTWOOD REDWOOD 72" BY 18" WIDE, BEAT PLANKS SET ON EDGE, SURFACE MOUNTED WITH GALVANIZED VANDLE PROOF FASTNERS AS PER MANUFACTURER'S RECOMMENDATIONS AND APPROVAL FROM ENGINEER. BENCHES SHALL BE AS MANUFACTURED BY THE FOLLOWING COMPANIES OR APPROVED EQUAL:
"MACOTTA" MB 7220
"VAUGHAN & ASSOC." F17003R
"TIMBERFORM" 2160-6



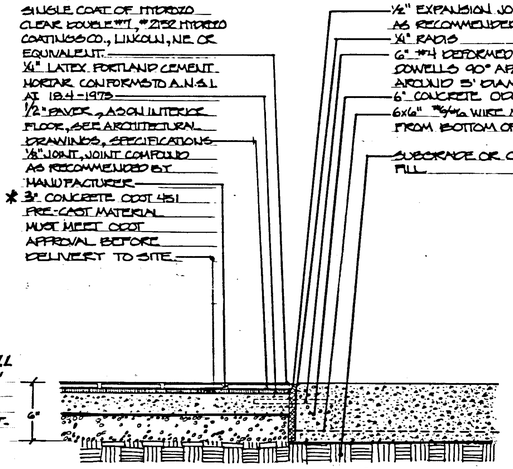
WOOD BENCH PLAN & SECTION SCALE: 3/4"=1'0"

THE COST OF ALL OF THE ABOVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR EACH ITEM SPECIAL - 6' WOOD BENCH.



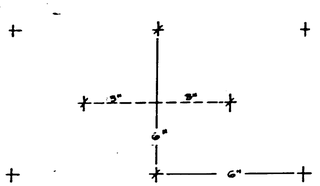
GRADING BETWEEN ENTRIES FOR SITE PLANS WITHOUT VISITORS/INFORMATION CENTER
SCALE: 1/8"=1'0"

* PRE-CAST MATERIAL (TILED ROUNDS) SHALL BE 3" THICK AND HAVE A BASE OF 3" OF ODOT 304 AGGREGATE. CAST-IN-PLACE TILED ROUNDS SHALL BE 6" THICK ON SUBGRADE OR COMPACTED FILL.



THE COST OF ALL OF THE ABOVE, INCLUDING TILED ROUNDS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 451-6" REINFORCED PORT. CEMT. CONC. PAVMT. W/TILED ROUNDS.

TILED ROUNDS ADJACENT TO REINFORCED CONCRETE
NOT TO SCALE

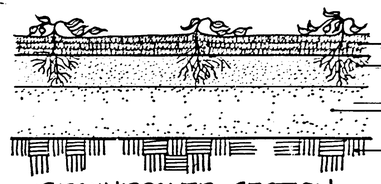


GROUNDCOVER TO BE PLANTED 6" O.C. AND OFFSET IN ADJACENT ROW AS PER TYPICAL PLAN

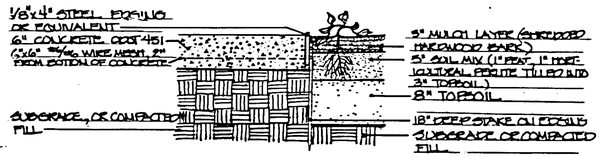
ALL GROUNDCOVER IS TO BE PEAT POT GROWN; EXCEPTION IS 2 YEAR ROOTED CUTTINGS MAY BE USED APRIL 15TH THROUGH MAY 15TH.

QTY QUANTITIES WILL BE MEASURED WITH THE SLOPE, NOT HORIZONTALLY.

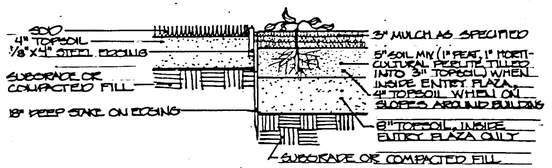
GROUNDCOVER PLAN
NOT TO SCALE SEE NOTES, SHEET 9M



GROUNDCOVER SECTION
NOT TO SCALE SEE NOTES, SHEET 9M



CONCRETE ADJACENT TO PLANTING BED
NOT TO SCALE SEE NOTES, SHEET 9M



SOD ADJACENT TO PLANTING BED
NOT TO SCALE SEE NOTES, SHEET 9M

STEEL EDGING AS DETAILED ABOVE IS AVAILABLE THROUGH:

JOSEPH T. RYERSON & SON, INC.	BRIGHTON BY-PRODUCTS CO.
P.O. BOX 8000-A	P.O. BOX 23
CHICAGO, ILL. 60680	NEW BRIGHTON, PA 15066

LANDSCAPE ARCHITECTS · LAND TECHNIQUES, INC. DELAWARE, OHIO.

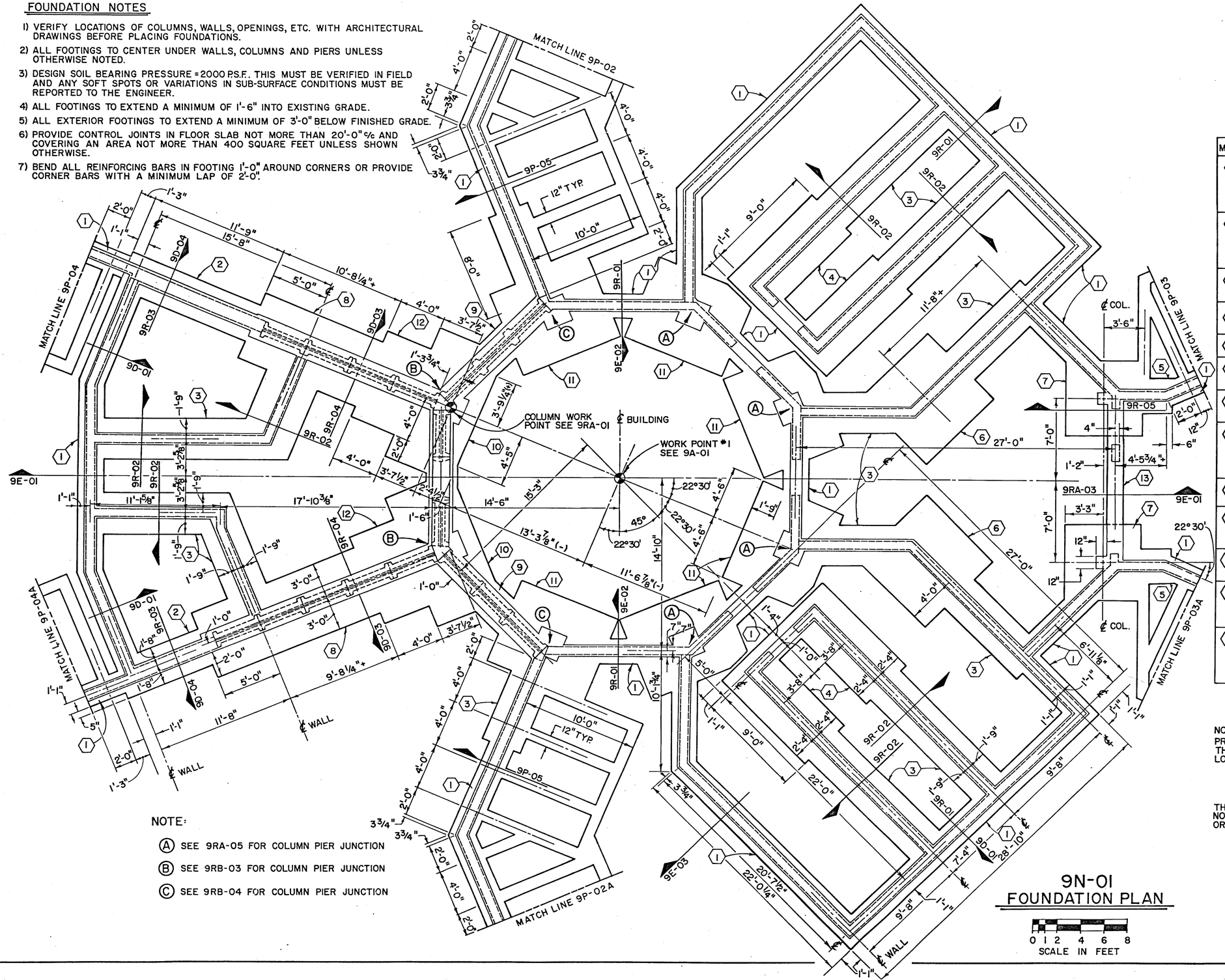
OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

REVISIONS		SHEET NO.
8-4-83 8-21-84	MOTORIST SERVICES BUILDING AND STORAGE UNITS	9L
	ARCHITECTS • WRIGHT/KRITSCHGAU, ASSOCIATES, INC. 3600 TRABUE RD. COLUMBUS, OHIO ENGINEERS • JOHN E. FOSTER & ASSOCIATES, COLUMBUS, OHIO ENERGY TECHNOLOGIES • BATTELLE / COLUMBUS LABORATORIES	DATE

PROJECT	OHIO	41
I.R.-70-1(37)2		68
PREBLE COUNTY PRE-70-2.80	FHWA REGION 5	

FOUNDATION NOTES

1) VERIFY LOCATIONS OF COLUMNS, WALLS, OPENINGS, ETC. WITH ARCHITECTURAL DRAWINGS BEFORE PLACING FOUNDATIONS.
2) ALL FOOTINGS TO CENTER UNDER WALLS, COLUMNS AND PIERS UNLESS OTHERWISE NOTED.
3) DESIGN SOIL BEARING PRESSURE = 2000 P.S.F. THIS MUST BE VERIFIED IN FIELD AND ANY SOFT SPOTS OR VARIATIONS IN SUB-SURFACE CONDITIONS MUST BE REPORTED TO THE ENGINEER.
4) ALL FOOTINGS TO EXTEND A MINIMUM OF 1'-6" INTO EXISTING GRADE.
5) ALL EXTERIOR FOOTINGS TO EXTEND A MINIMUM OF 3'-0" BELOW FINISHED GRADE.
6) PROVIDE CONTROL JOINTS IN FLOOR SLAB NOT MORE THAN 20'-0" c/c AND COVERING AN AREA NOT MORE THAN 400 SQUARE FEET UNLESS SHOWN OTHERWISE.
7) BEND ALL REINFORCING BARS IN FOOTING 1'-0" AROUND CORNERS OR PROVIDE CORNER BARS WITH A MINIMUM LAP OF 2'-0".



NOTE:

Ⓐ SEE 9RA-05 FOR COLUMN PIER JUNCTION

Ⓑ SEE 9RB-03 FOR COLUMN PIER JUNCTION

Ⓒ SEE 9RB-04 FOR COLUMN PIER JUNCTION

9N-02
FOOTER SCHEDULE

MARK	SIZE	SECTION	LOAD	REINFORCEMENT	FOUNDATION WALL
①	2'-2" WIDE 1'-0" DEEP	9R-01	3.7 K/FT	2-#4 BARS AT 20" CONTINUOUS	1'-2" WIDE x 2'-0" DEEP W/2-#4 BARS CONT. TOP AND BOTTOM W/#3 TIES AT 4'-0" c/c.
②	3'-4" WIDE 1'-0" DEEP	9R-03	5.9 K/FT	4-#4 BARS AT 11" CONT. BOTTOM W/#4 BARS AT 16" c/c TOP.	1'-6" WIDE x 2'-0" DEEP W/2-#4 BARS CONT. TOP AND BOTTOM W/#3 TIES AT 4'-0" c/c.
③	3'-6" WIDE 1'-0" DEEP	9R-02	6.5 K/FT	4-#4 BARS AT 12" CONT. BOT. W/#4 BARS AT 16" c/c T.	SEE MARK #1
④	4'-8" WIDE 1'-0" DEEP	9R-02	7.0 K/FT	5-#4 BARS AT 13" CONT. BOT. W/#5 BARS AT 16" c/c T.	SEE MARK #1
⑤	3'-0" WIDE 1'-0" DEEP	9R-02	5.2 K/FT	3-#4 BARS AT 15" CONTINUOUS	SEE MARK #1
⑥	8'-0" WIDE 8'-0" LONG 1'-4" DEEP	9R-02	10.0 K/FT	6-#10 BARS AT 18" EACH WAY	SEE MARK #1
⑦	6'-6" WIDE 6'-6" LONG 1'-0" DEEP	9R-05	77.0 K	7-#6 BARS AT 12" EACH WAY	SEE MARK #1
⑧	6'-0" WIDE 1'-0" DEEP	9R-04	10.1 K/FT	6-#4 BARS AT 13½" CONT. BOT. W/#5 BARS AT 16" c/c T.	2'-0" WIDE x 2'-0" DEEP W/2-#5 BARS CONT. TOP AND BOTTOM W/#3 TIES AT 4'-0" c/c.
⑨	3'-0" WIDE 1'-0" DEEP	9R-04	11.0 K/FT	4-#4 BARS AT 10" CONTINUOUS	SEE MARK #8
⑩	6'-0" WIDE 12'-0" LONG 1'-6" DEEP	9R-04	142 K ✳	6-#4 BARS AT 13½" CONT. BOT. W/13-#7 BARS AT 11½" TOP	SEE MARK #8
⑪	9'-0" WIDE 7'-6" LONG 1'-4" DEEP	9RA-02	99.0 K ✳	8-#6 BARS EACH WAY	SEE MARK #1
⑫	8'-0" WIDE 4'-0" LONG 1'-4" DEEP	9R-04	11.5 K/FT	9-#6 BARS AT 11½" CONT. TOP W/5-#4 BARS AT 10" + BOTTOM.	SEE MARK #8
⑬	NO FOOTING REQUIRED	9RA-03	N/A	—	1'-4" WIDE x 3'-0" DEEP W/2-#6 BARS CONT. TOP AND BOTTOM W/#3 TIES AT 2'-0" c/c.

✳ INDICATES ECCENTRIC LOAD

NOTE:
PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL ASCERTAIN THAT THE SOIL UNDER THE COLUMN FOOTINGS CAN SUSTAIN THE FOLLOWING LOADS:

VERTICAL REACTION	HORIZONTAL REACTION
42 K	21 K

THESE LOADS ARE FRAME REACTIONS AT BASES OF COLUMNS AND DO NOT INCLUDE THE WEIGHT OF FOOTINGS, SUPERIMPOSED EARTH, PIERS, OR WALLS.

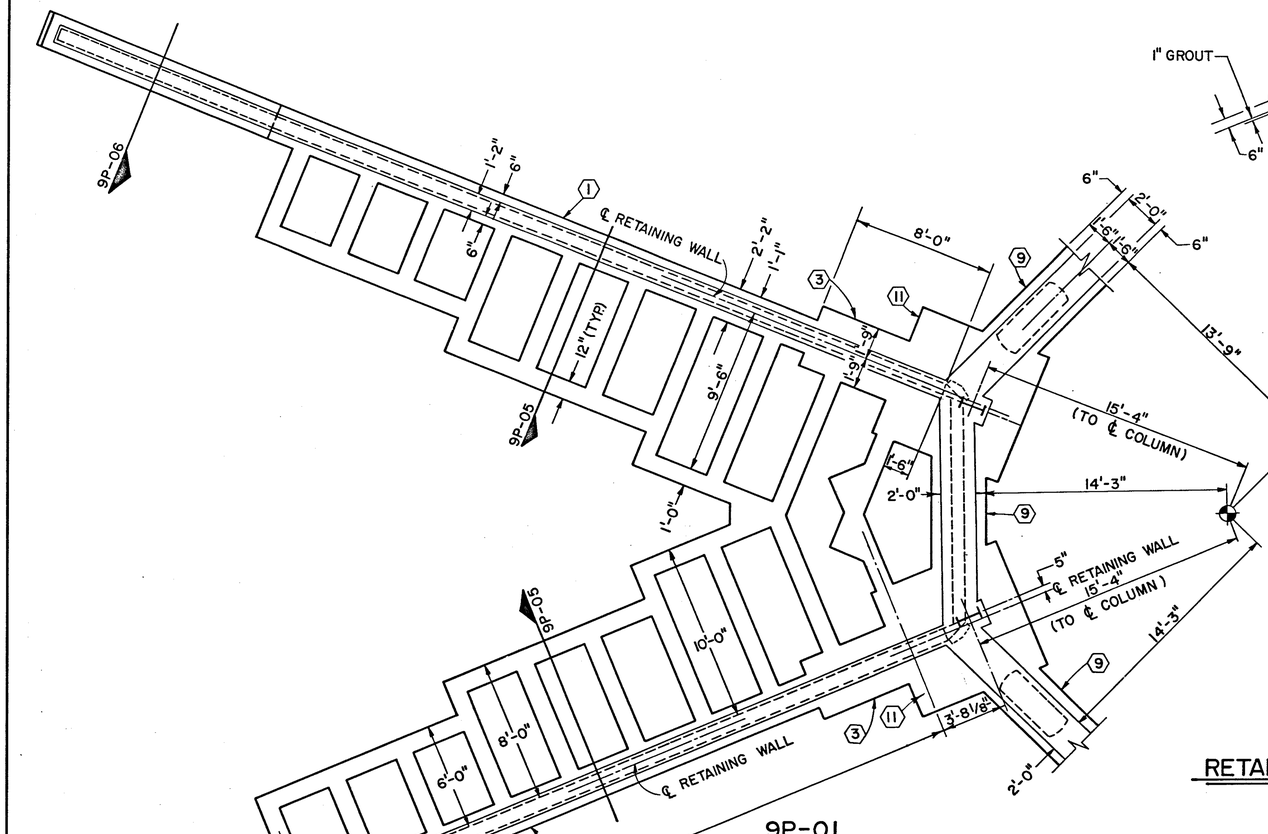
9N-01
FOUNDATION PLAN

0 1 2 4 6 8
SCALE IN FEET

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

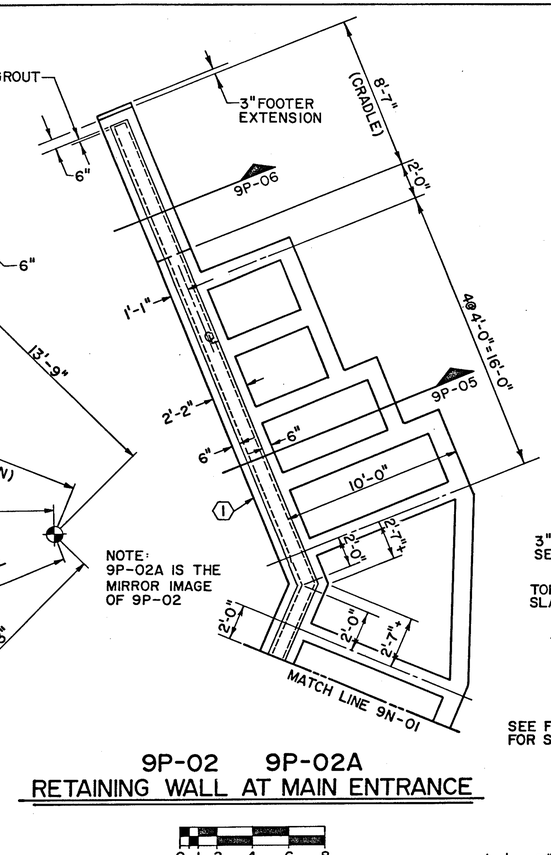
REVISIONS	MOTORIST SERVICES BUILDING AND STORAGE UNITS	SHEET NO. 9N
	ARCHITECTS · WRIGHT √ KRITSCHGAU, ASSOCIATES, INC. 3600 TRABUE AVE., COLUMBUS, OHIO ENGINEERS · JOHN E. FOSTER & ASSOCIATES, COLUMBUS, OHIO ENERGY TECHNOLOGIES · BATTELLE / COLUMBUS LABORATORIES	DATE

PROJECT	OHIO	42
I.R.-70-1(37)2		68
PREBLE COUNTY PRE-70-2.80	FHWA REGION 5	



9P-01
RETAINING WALLS WITHOUT TOURIST INFORMATION CENTER (WB)

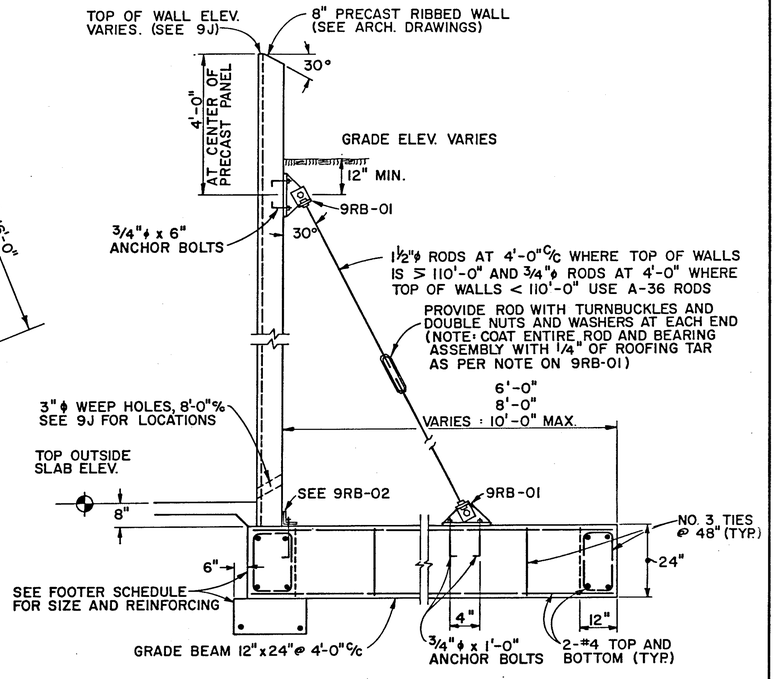
SCALE IN FEET 0 1 2 4 6 8



NOTE:
9P-02A IS THE MIRROR IMAGE OF 9P-02

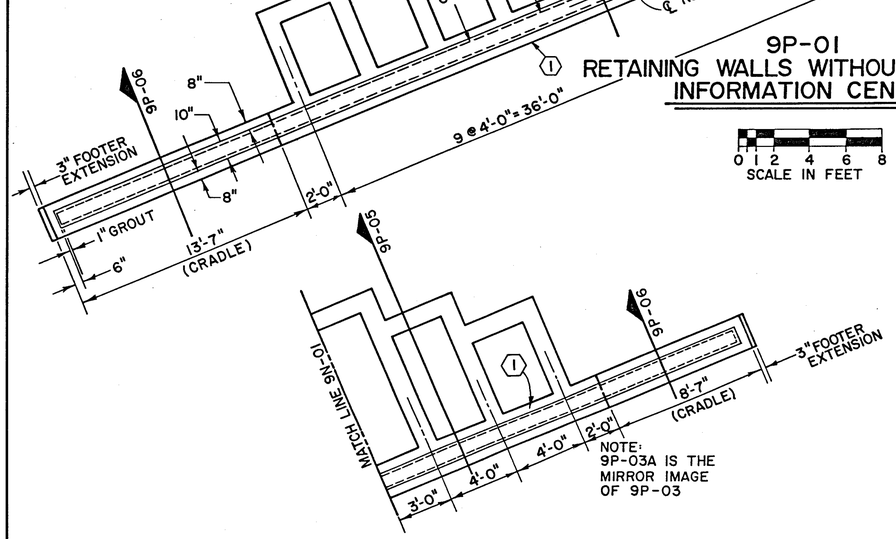
9P-02 9P-02A
RETAINING WALL AT MAIN ENTRANCE

SCALE IN FEET 0 1 2 4 6 8



9P-05
RETAINING WALL SECTION
NOT TO SCALE

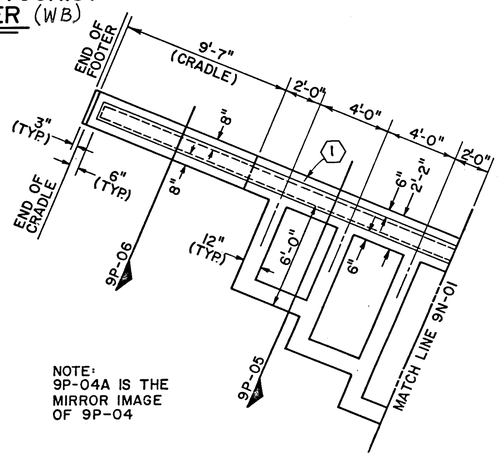
RETAINING WALL FOUNDATIONS
SCALE AS NOTED



NOTE:
9P-03A IS THE MIRROR IMAGE OF 9P-03

9P-03 9P-03A
RETAINING WALL AT REAR ENTRANCE

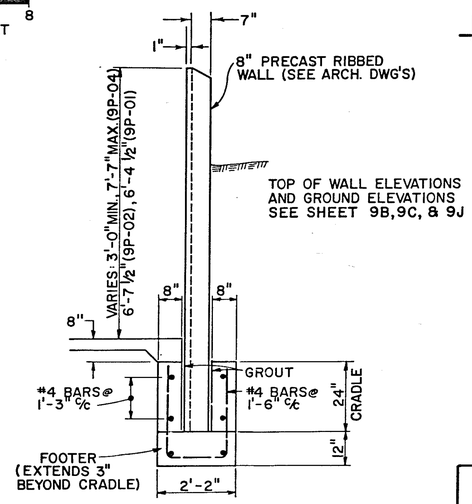
SCALE IN FEET 0 1 2 4 6 8



NOTE:
9P-04A IS THE MIRROR IMAGE OF 9P-04

9P-04 9P-04A
RETAINING WALL BEYOND TOURIST INFORMATION CENTER (EASTBOUND)

SCALE IN FEET 0 1 2 4 6 8

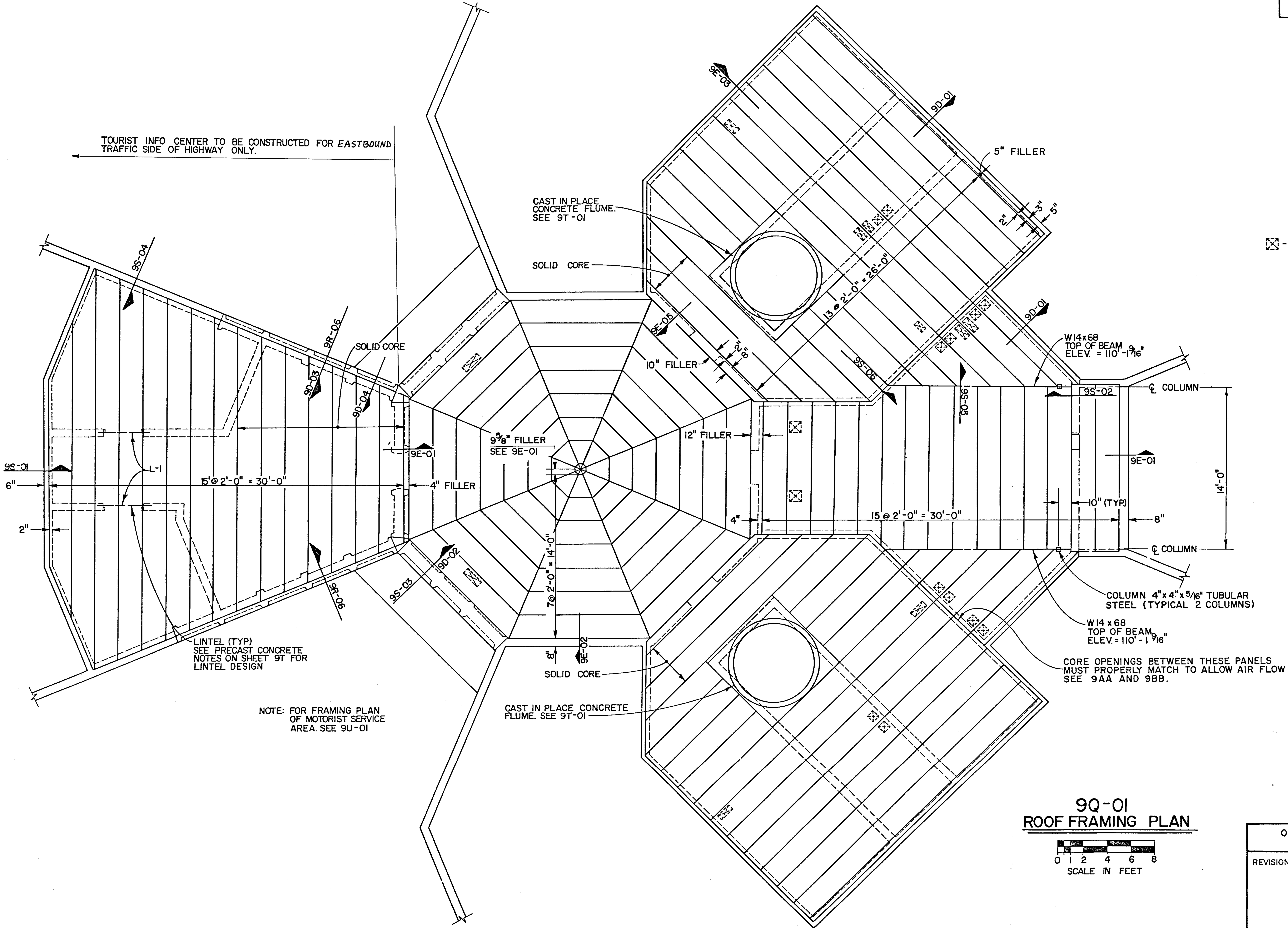


9P-06
RETAINING WALL SECTION
NOT TO SCALE

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

REVISIONS	MOTORIST SERVICES BUILDING AND STORAGE UNITS	SHEET NO. 9P
	ARCHITECTS · WRIGHT ✓ KRITSCHGAU, ASSOCIATES, INC. 3600 TRABUE RD., COLUMBUS, OHIO ENGINEERS · JOHN E. FOSTER & ASSOCIATES, COLUMBUS, OHIO ENERGY TECHNOLOGIES · BATTELLE/COLUMBUS LABORATORIES	DATE

PROJECT I.R.-70-1(37)2	OHIO	43/68
PREBLE COUNTY PRE-70-2.80	FHWA REGION 5	



[⊠] - OPENING FOR HEATING, VENTILATING AND AIR CONDITIONING IN PRECAST CONCRETE (BY PRECAST CONCRETE FABRICATOR). FOR OPENING SIZES SEE SHEETS 9AA, 9BB, AND 9CC. SUBMIT EXACT SIZES AND LOCATIONS FOR APPROVAL BEFORE FABRICATION.

NOTE: FOR FRAMING PLAN OF MOTORIST SERVICE AREA. SEE 9U-01

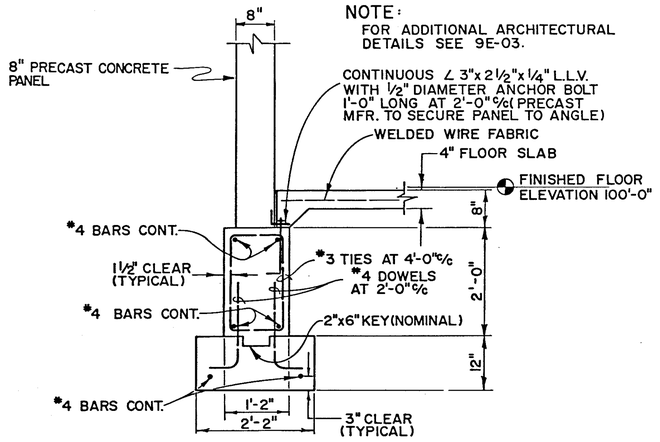
9Q-01 ROOF FRAMING PLAN

0 1 2 4 6 8
SCALE IN FEET

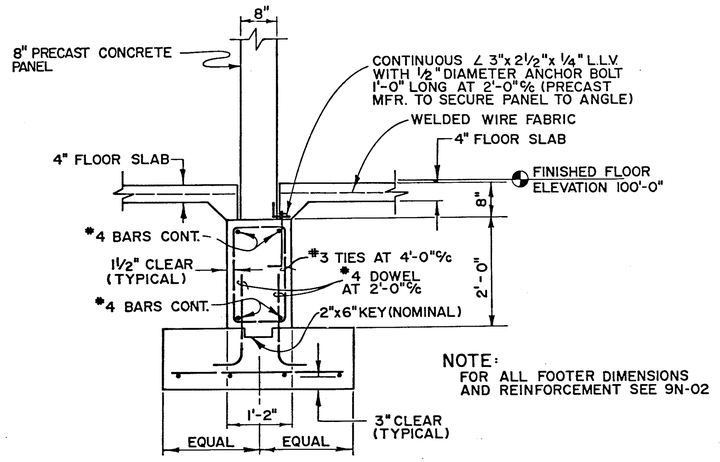
OHIO DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS		
REVISIONS	MOTORIST SERVICES BUILDING AND STORAGE UNITS	SHEET NO. 9Q
	ARCHITECTS - WRIGHT V KRITSCHGAU, ASSOCIATES, INC. 3600 TRABUE RD., COLUMBUS, OHIO ENGINEERS - JOHN E. FOSTER & ASSOCIATES, COLUMBUS, OHIO ENERGY TECHNOLOGIES - BATTELLE / COLUMBUS LABORATORIES	DATE

PROJECT I.R.-70-1(37)2	OHIO
PREBLE COUNTY PRE-70-2.80	FHWA REGION 5

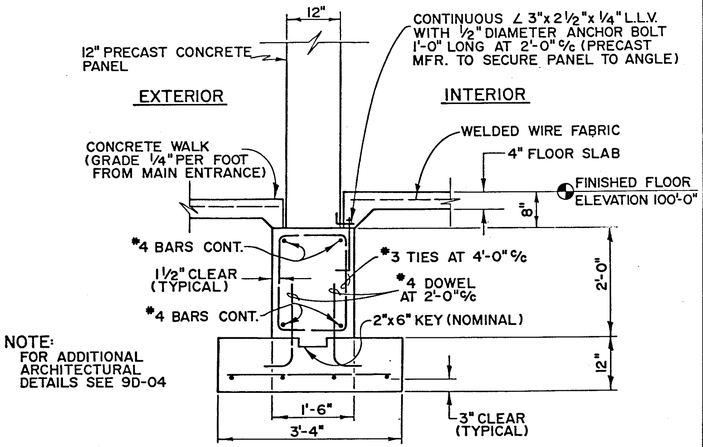
44
46



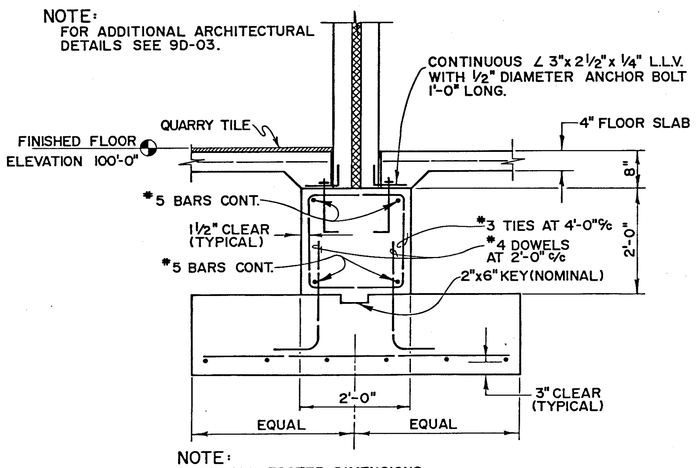
9R-01
14" FOUNDATION WALL WITH 2'-2" FOOTER
NOT TO SCALE



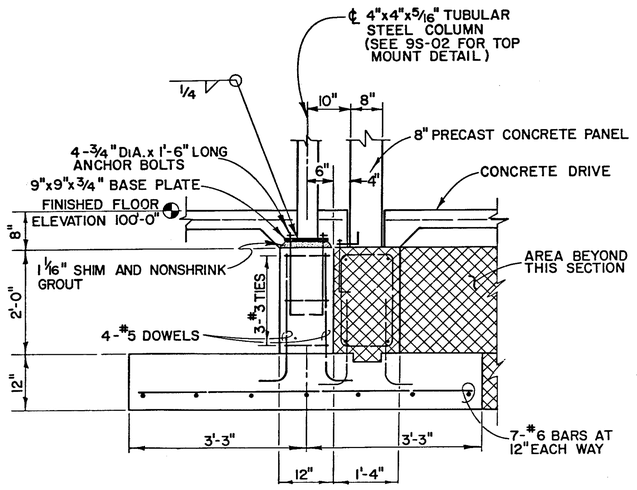
9R-02
14" FOUNDATION WALL WITH FOOTER
NOT TO SCALE



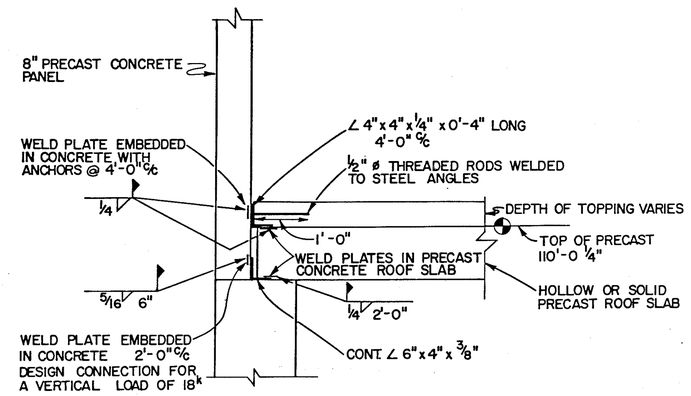
9R-03
18" FOUNDATION WALL WITH 3'-4" FOOTER
NOT TO SCALE



9R-04
24" FOUNDATION WALL WITH FOOTER
NOT TO SCALE



9R-05
12"x12" CONCRETE COLUMN PIER
NOT TO SCALE



9R-06
SECTION
NOTE:
WELD PLATES TO BE DESIGNED BY PRECAST FABRICATOR
NOT TO SCALE

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

REVISIONS

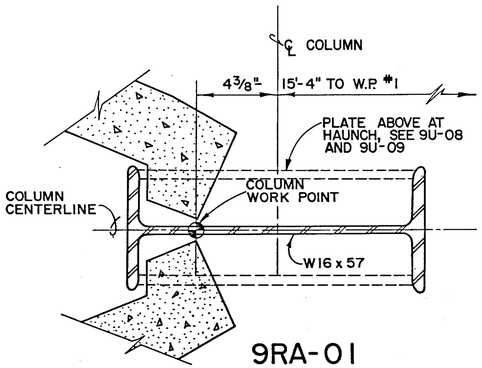
MOTORIST SERVICES BUILDING AND STORAGE UNITS

SHEET NO. 9R

ARCHITECTS · WRIGHTV KRITSCHGAU, ASSOCIATES, INC. 3600 TRABUE AVE., COLUMBUS, OHIO
ENGINEERS · JOHN E. FOSTER & ASSOCIATES, COLUMBUS, OHIO
ENERGY TECHNOLOGIES · BATTELLE / COLUMBUS LABORATORIES

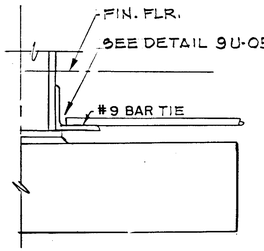
DATE

PROJECT	OHIO	45
I.R.-70-1(37)2		68
PREBLE COUNTY	FHWA REGION 5	
PRE-70-2.80		



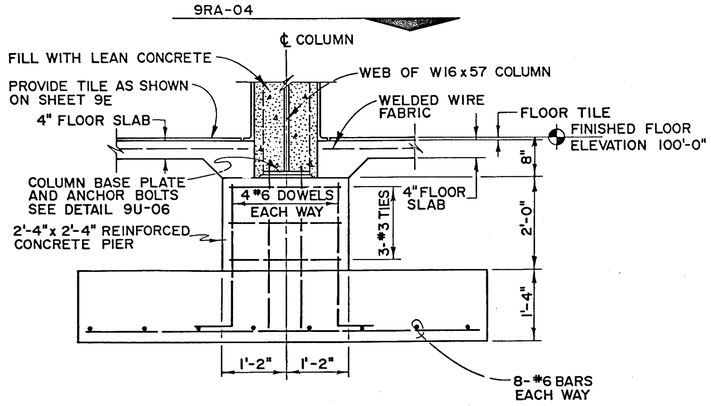
9RA-01
COLUMN WORK POINT

NOT TO SCALE



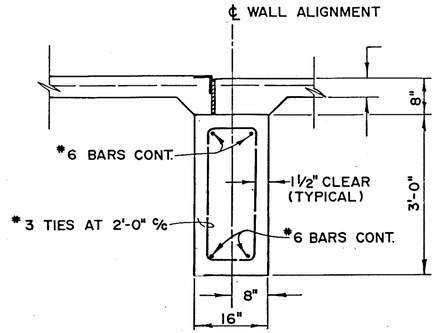
9RA-07
COLUMN TIE ANCHORAGE

NOT TO SCALE



9RA-02
MAIN COLUMN PIER-SECTION

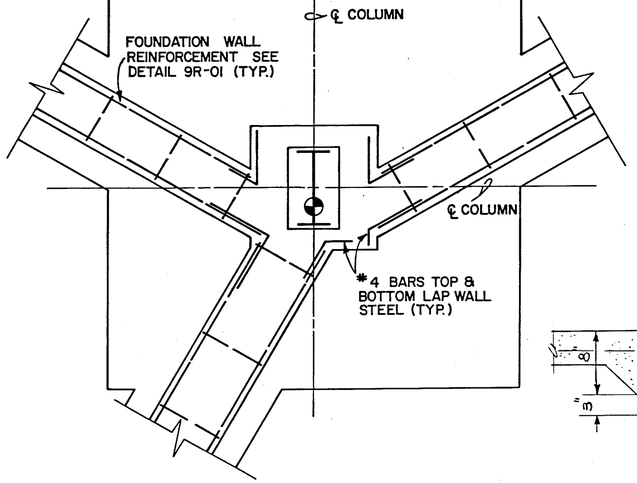
NOT TO SCALE



NOTE:
FOR ADDITIONAL FLOOR, WALL ALIGNMENT AND INSULATION DETAILS, SEE 9G-03

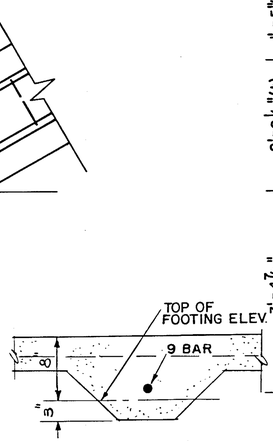
9RA-03
FOUNDATION WALL

NOT TO SCALE



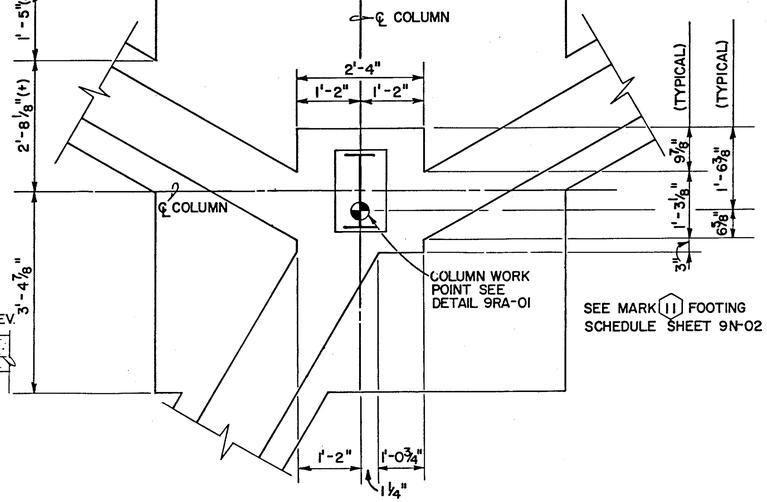
9RA-04
TYPICAL REINFORCEMENT AT WALL AND PIER JUNCTION

NOT TO SCALE



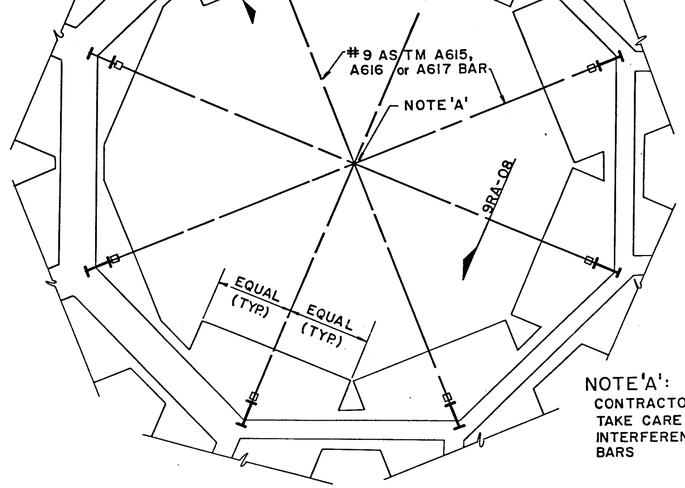
9RA-08
FOOTING TIE TRENCH DETAIL

NOT TO SCALE



9RA-05
FOUNDATION WALL AND MAIN COLUMN PIER JUNCTION

NOT TO SCALE



NOTE 'A':
CONTRACTOR SHALL TAKE CARE TO AVOID INTERFERENCE BETWEEN BARS

9RA-06
COLUMN TIE LAYOUT

NOT TO SCALE

STRUCTURAL DETAILS

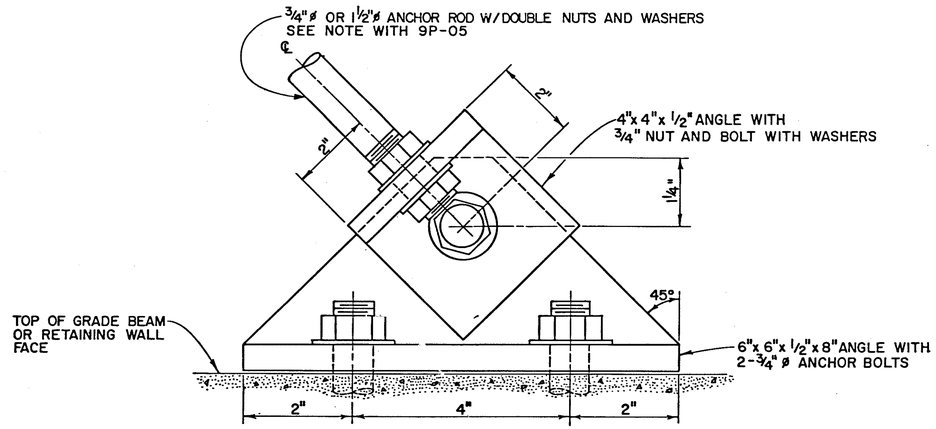
NOT TO SCALE

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

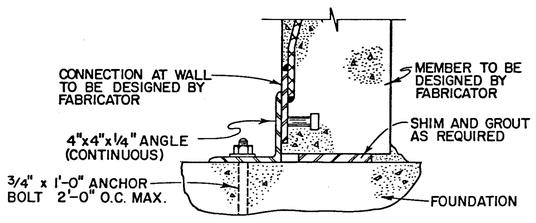
REVISIONS	MOTORIST SERVICES BUILDING AND STORAGE UNITS	SHEET NO. 9RA
	ARCHITECTS · WRIGHT / KRITSCHGAU, ASSOCIATES, INC. 3600 TRABUE RD., COLUMBUS, OHIO ENGINEERS · JOHN E. FOSTER & ASSOCIATES, COLUMBUS, OHIO ENERGY TECHNOLOGIES · BATTELLE / COLUMBUS LABORATORIES	DATE

PROJECT	OHIO
I.R.-70-1(37)2	
PREBLE COUNTY	FHWA REGION 5
PRE-70-2.80	

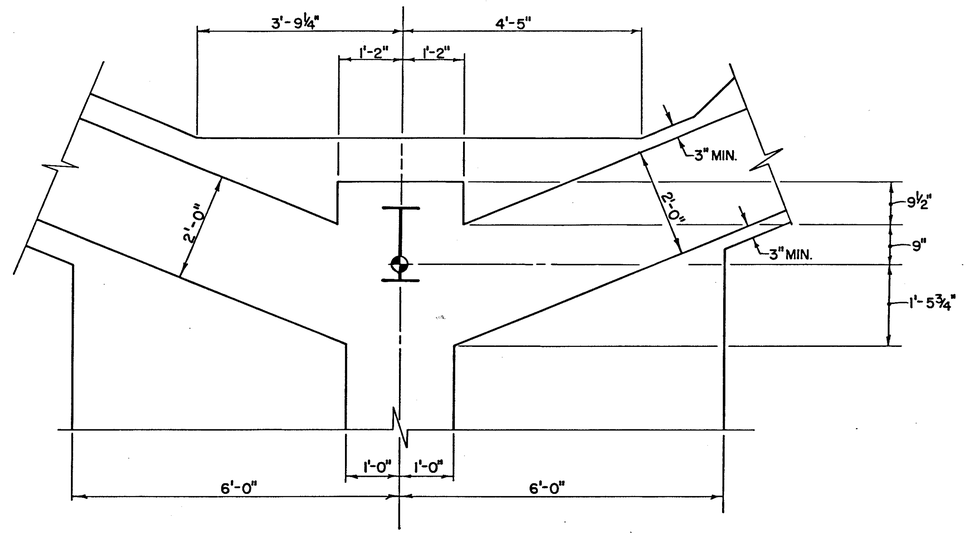
NOTE: THE COMPLETED ASSEMBLY AND ANCHOR ROD WILL RECEIVE A 1/4" COAT OF ROOFING TAR OVER ENTIRE ASSEMBLY AND BEARING



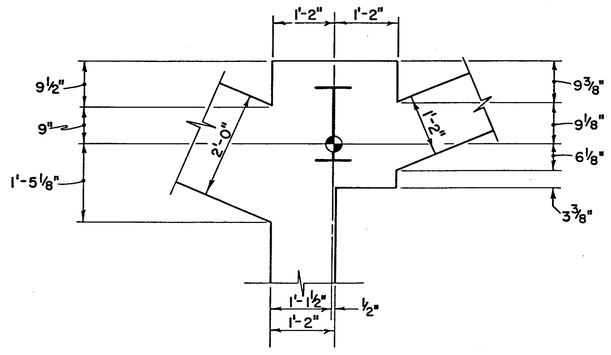
9RB-01
RETAINER WALL SUPPORT - TYPICAL
NOT TO SCALE



9RB-02
PRECAST CONCRETE WALL BASE DETAIL
NOT TO SCALE



9RB-03
COLUMN PIER JUNCTION
NOT TO SCALE

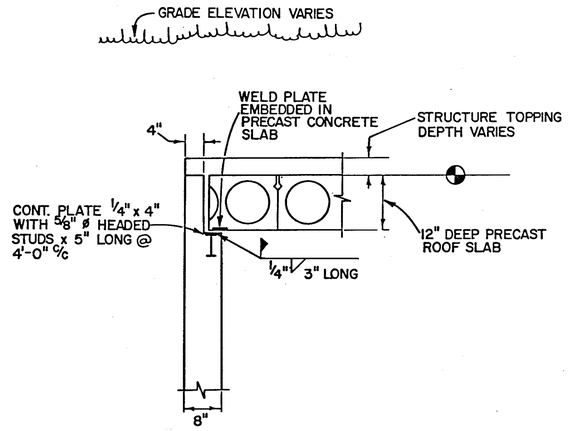


9RB-04
COLUMN PIER JUNCTION
NOT TO SCALE

STRUCTURAL DETAILS
NOT TO SCALE

OHIO DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS		
REVISIONS	MOTORIST SERVICES BUILDING AND STORAGE UNITS	SHEET NO. 9RB
	ARCHITECTS · WRIGHT ✓ KRITSCHGAU, ASSOCIATES, INC. 3600 TRABUE RD., COLUMBUS, OHIO ENGINEERS · JOHN E. FOSTER & ASSOCIATES, COLUMBUS, OHIO ENERGY TECHNOLOGIES · BATTELLE / COLUMBUS LABORATORIES	DATE

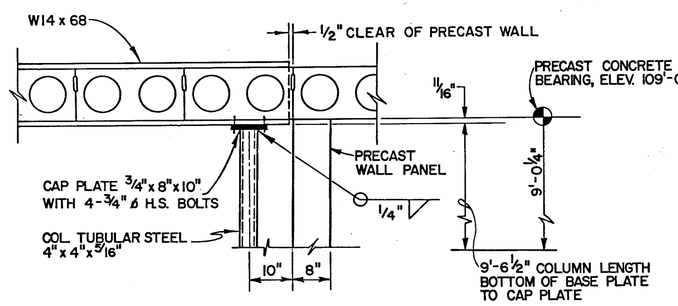
PROJECT	OHIO
I.R.-70-1(37)2	
PREBLE COUNTY	FHWA REGION 5
PRE-70-2.80	



9S-01 SECTION

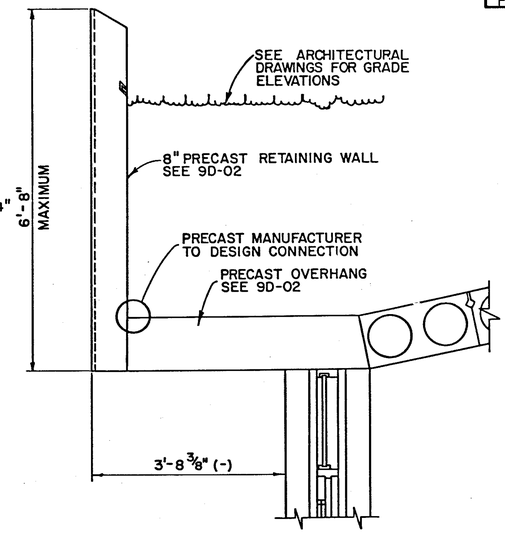
NOT TO SCALE

NOTE:
MOUNT 12" PRECAST CEILING SLAB AS PER 9S-05 (WITHIN BEAM)



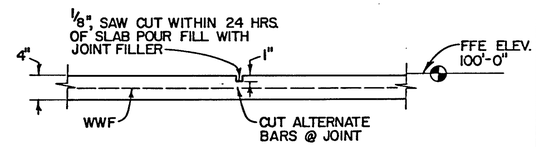
9S-02 SECTION

NOT TO SCALE

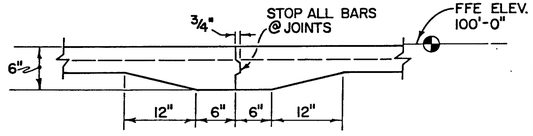


9S-03 SECTION

NOT TO SCALE



Saw Cut Joint

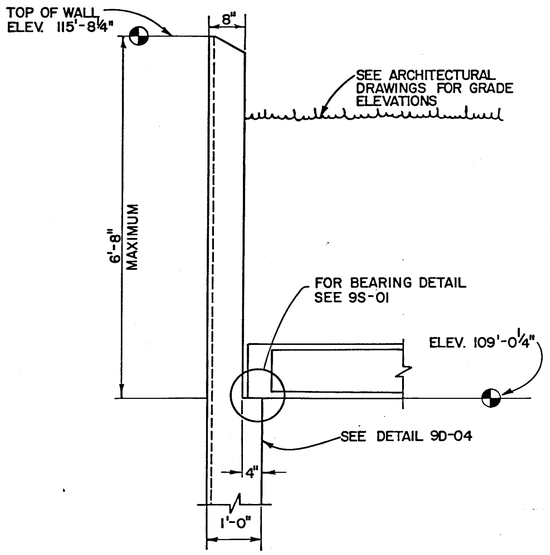


Keyed Control Joint

NOTE:
KEYED CONTROL JOINT DETAIL CAN BE USED INSTEAD OF SAW CUT DETAIL

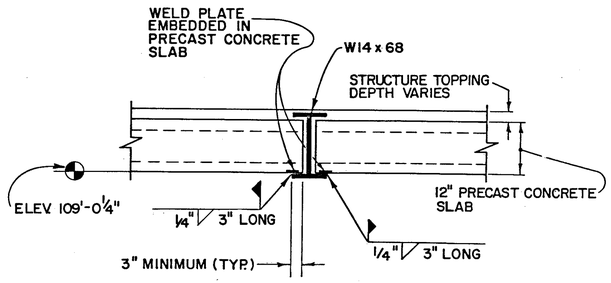
9S-07 CONTROL JOINT DETAIL

NOT TO SCALE



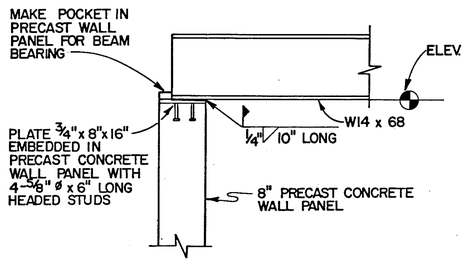
9S-04 SECTION

NOT TO SCALE



9S-05 SECTION

NOT TO SCALE



9S-06 SECTION

NOT TO SCALE

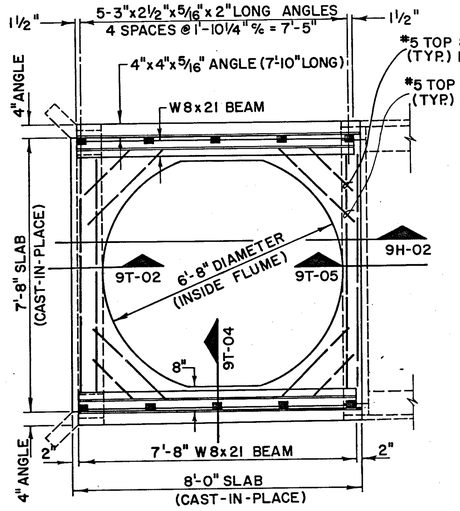
STRUCTURAL DETAILS

NOT TO SCALE

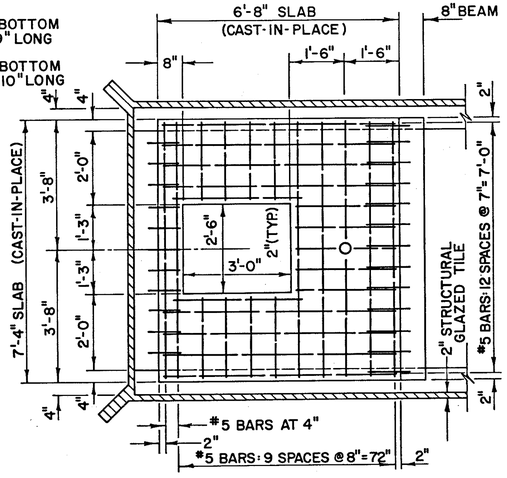
OHIO DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS		
REVISIONS	MOTORIST SERVICES BUILDING AND STORAGE UNITS	SHEET NO. 9S
	ARCHITECTS · WRIGHT √ KRITSCHGAU, ASSOCIATES, INC. 3600 TRABUE RD., COLUMBUS, OHIO ENGINEERS · JOHN E. FOSTER & ASSOCIATES, COLUMBUS, OHIO ENERGY TECHNOLOGIES · BATTELLE / COLUMBUS LABORATORIES	DATE·

PROJECT	OHIO
I.R.-70-1(37)2	
PREBLE COUNTY	FHWA REGION 5
PRE-70-2.80	

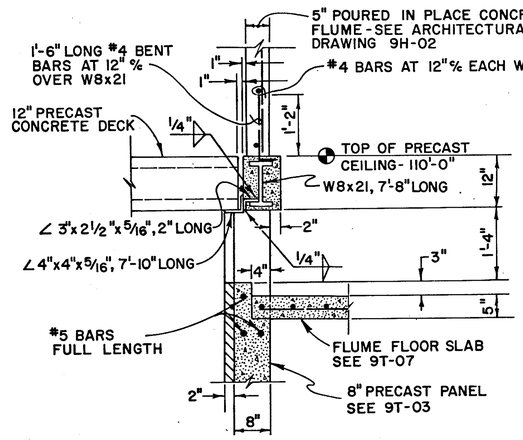
NOTE:
FOR PRECAST WALL PANELS
SEE SECTION 9T-03



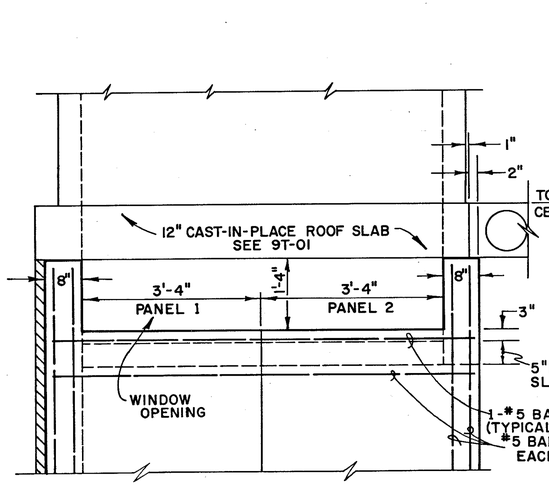
9T-01
PARTIAL ROOF FRAMING PLAN SUPPORTING FLUME
NOT TO SCALE



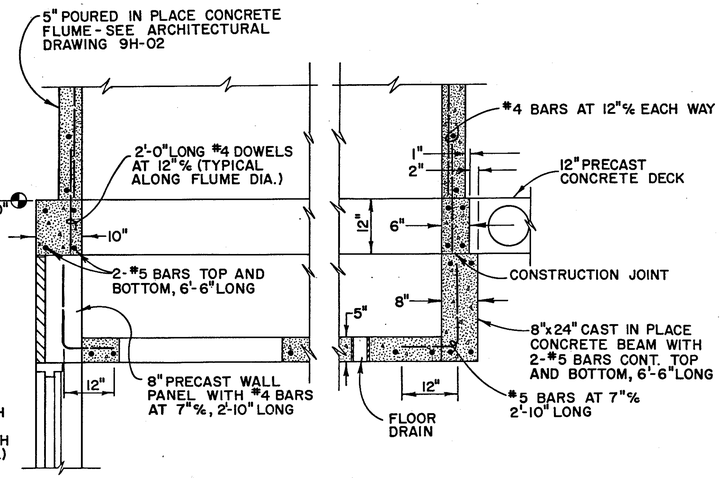
9T-07
FLUME FLOOR FRAMING PLAN
NOT TO SCALE



9T-04
NOT TO SCALE



9T-03
NOT TO SCALE



9T-02
NOT TO SCALE

9T-05
NOT TO SCALE

9T-06
STRUCTURAL NOTES

GENERAL

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS RELATED TO EXISTING CONSTRUCTION, EXISTING SERVICES AND THE SITE.
- SUBMIT SHOP DRAWINGS FOR APPROVAL (SEE SPECIFICATION).
- THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING ETC., AS REQUIRED DURING CONSTRUCTION.

STRUCTURAL STEEL

- DETAIL FABRICATE AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH THE LATEST A.I.S.C. AND OTHER CODES, STANDARDS AND SPECIFICATIONS LISTED IN THE PROJECT SPECIFICATIONS EXCEPT AS MODIFIED THEREIN OR ON THE DRAWINGS.
- STEEL PLATES, SHAPES AND BARS: ASTM A36.
- HIGH STRENGTH STEEL BOLTS: ASTM A307 MINIMUM ¾" DIAMETER
- WELDING: E-70XX ELECTRODES.

PRECAST CONCRETE

- THE PRECAST CONCRETE MEMBERS SHALL BE DESIGNED BY THE MANUFACTURER TO SUPPORT ALL APPLICABLE DEAD AND LIVE LOADS.
- THE PRECAST MANUFACTURER SHALL COORDINATE ALL OPENINGS IN PRECAST UNITS FROM ARCHITECTURAL AND MECHANICAL DRAWINGS.
- THE MANUFACTURER OF PRECAST UNITS SHALL DESIGN AND SHOW THE LOCATION OF INSERTS, ETC. FOR LIFTING AND INSTALLING THE PANELS IN PLACE.
- ROOF CONSTRUCTION: 12" PRECAST SLAB (HOLLOW AND SOLID) WITH VARIABLE DEPTH OF STRUCTURAL TOPPING (SEE ARCHITECTURAL DRAWINGS FOR DEPTH OF TOPPING). PROVIDE 6x6-W1.4xW1.4 IN STRUCTURAL TOPPING. DESIGN PRECAST UNITS FOR ALL APPLICABLE LOADS.
- LOADS

ITEM	HOLLOW P/C	SOLID P/C
12" FLEXICORE AND TOPPING	98 PSF (2" TOPPING)	225 PSF (6" TOPPING)
4" RIGID INSULATION	6	6
FILL (115 PCF)	307 (2"-8")	403 (3"-6")
TOTAL SUPERIMPOSED D.L.	411 PSF	634 PSF
SUPERIMPOSED L.L.	25	25
TOTAL DEAD LOAD PLUS SUPERIMPOSED D.L.+L.L.	436 PSF	659 PSF

- CONNECT PRECAST WALL PANELS TO EACH OTHER WITH ½" BENT PLATE AND ¾" DIAMETER ANCHOR BOLTS (MAXIMUM SPACING OF CONNECTION 4'-0" %)
- PRECAST MANUFACTURER SHALL SUBMIT SHOP DRAWINGS AND DESIGNS FOR SERVICE LOADS AND ERECTION AND HANDLING LOADS.
- PROVIDE A MINIMUM OF 2-#5 BARS AROUND ALL OPENINGS AND EXTEND 2'-0" BEYOND OPENINGS.
- PRECAST CONCRETE PANEL MANUFACTURER SHALL PROVIDE 3" DIAMETER WEEP HOLES AT 8'-0" % AND 6" ABOVE FINISHED GRADE IN RETAINING WALL PANELS AS SHOWN ON SHT. 9J.

CAST-IN-PLACE CONCRETE

- ALL CONCRETE IN FOOTINGS, SLABS ON GRADE AND TOPPING SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AFTER 28 DAYS, THE REMAINING CONCRETE TO BE 4,000 PSI. THE TOPPING AND ALL CONCRETE EXPOSED TO THE WEATHER OR IN CONTACT WITH GROUND SHALL BE AIR-ENTRAINED.

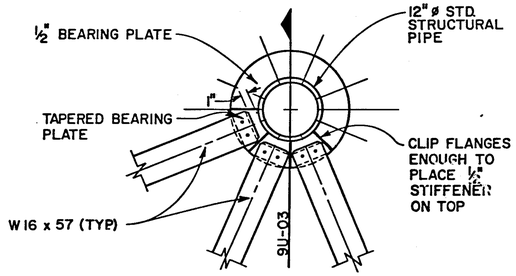
STRUCTURAL DETAILS & NOTES
NOT TO SCALE

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

REVISIONS	MOTORIST SERVICES BUILDING AND STORAGE UNITS	SHEET NO. 9 T
	ARCHITECTS: WRIGHT / KRITSCHGAU, ASSOCIATES, INC. 3600 TRABUE RD., COLUMBUS, OHIO ENGINEERS: JOHN E. FOSTER & ASSOCIATES, COLUMBUS, OHIO ENERGY TECHNOLOGIES: BATTELLE / COLUMBUS LABORATORIES	DATE

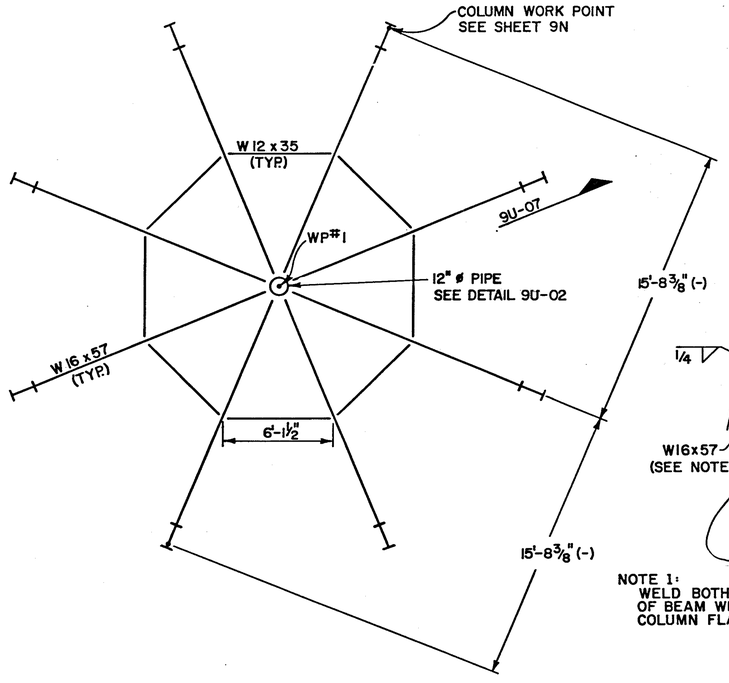
PROJECT I.R.-70-1(37)2	OHIO
PREBLE COUNTY PRE-70-2.80	FHWA REGION 5

49
68



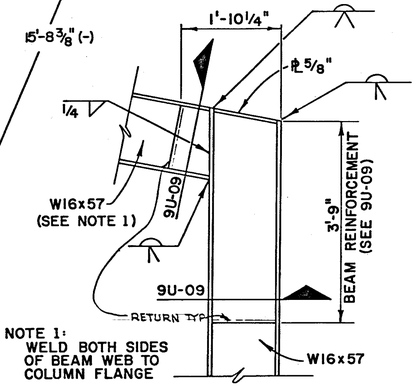
9U-02
CENTER FRAMING CONNECTION DETAIL

NOT TO SCALE



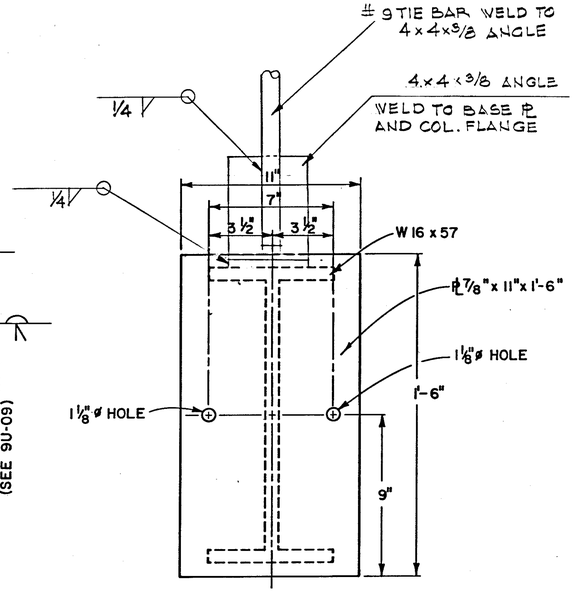
9U-01
FRAMING PLAN
MOTORISTS SERVICES ROOM 101

NOT TO SCALE



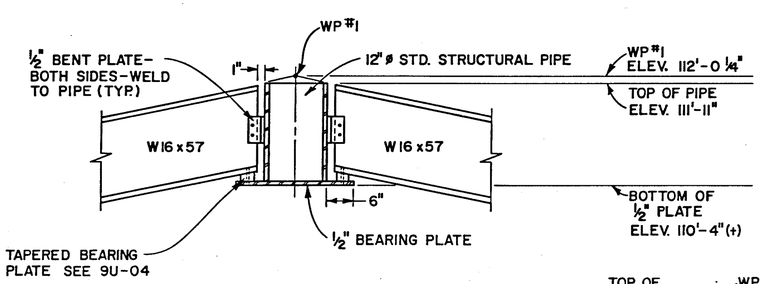
9U-08
COLUMN TO BEAM CONNECTION DETAIL

NOT TO SCALE



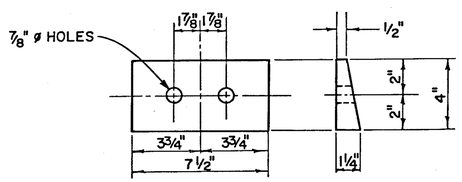
9U-05
COLUMN BASE PLATE

NOT TO SCALE



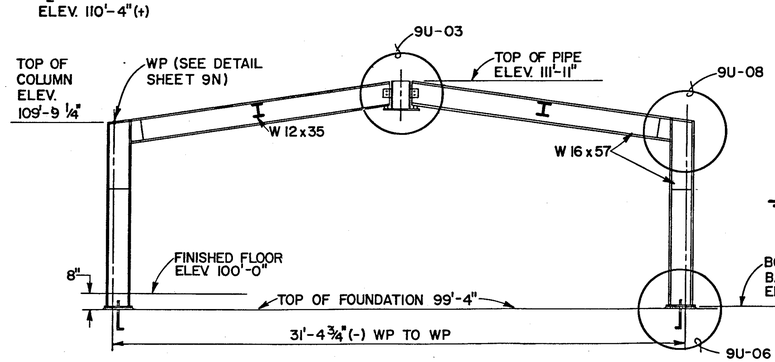
9U-03
CENTER FRAMING CONNECTION SECTION

NOT TO SCALE



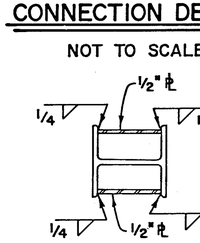
9U-04
TAPERED BEARING PLATE

NOT TO SCALE



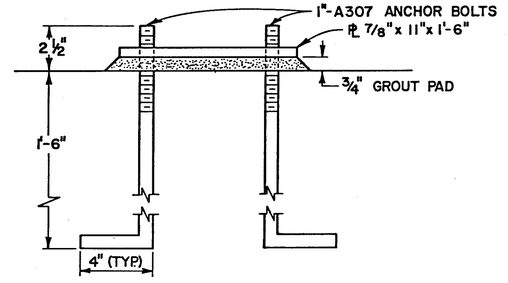
9U-07
TYPICAL FRAME ELEVATION

NOT TO SCALE



9U-09
COLUMN AND BEAM REINFORCEMENT DETAIL

NOT TO SCALE



9U-06
ANCHOR BOLT DETAIL

NOT TO SCALE

STRUCTURAL DETAILS

NOT TO SCALE

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

REVISIONS

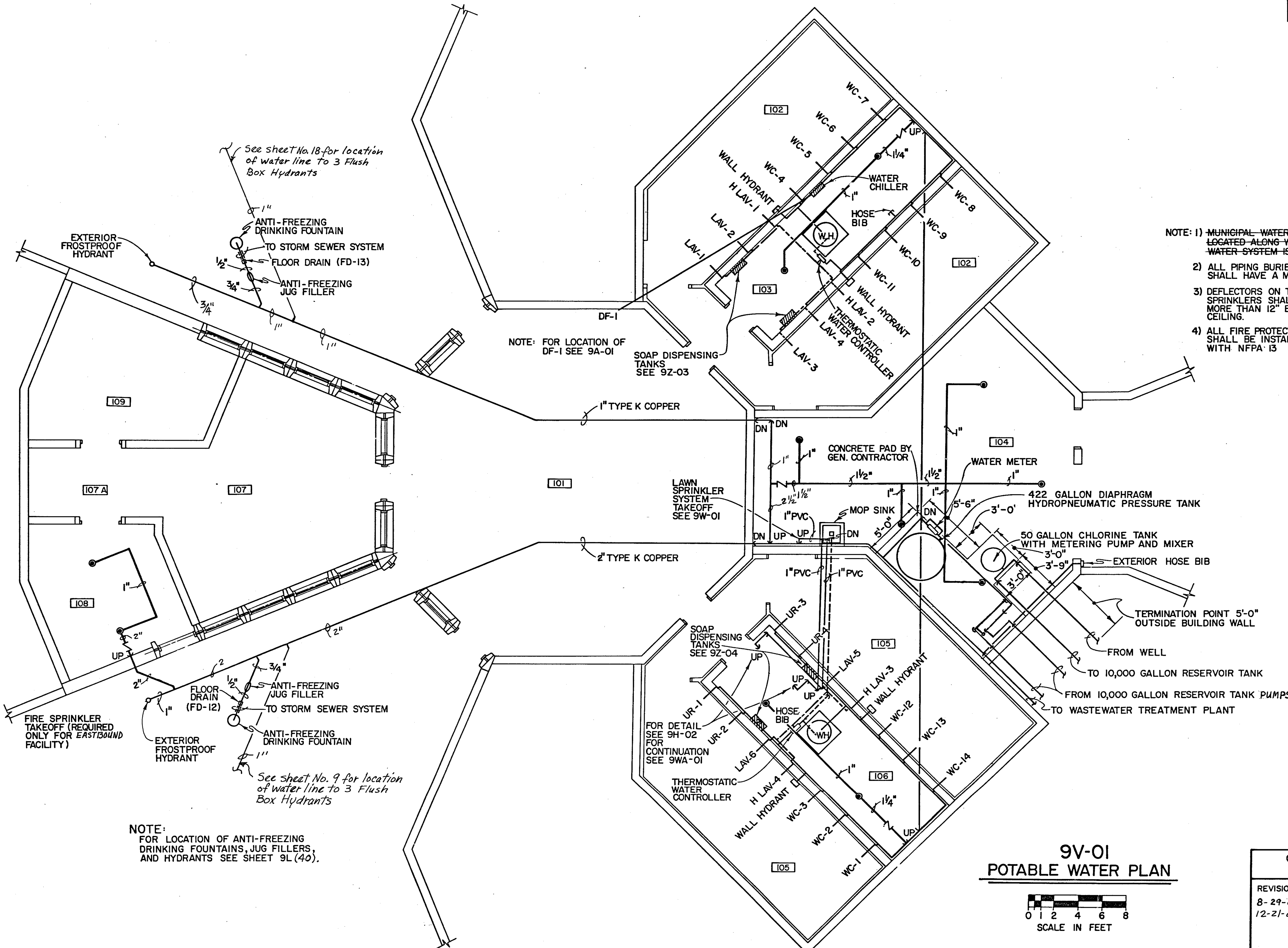
MOTORIST SERVICES BUILDING AND STORAGE UNITS

SHEET NO. 9U

ARCHITECTS: WRIGHT ✓ KRITSCHGAU, ASSOCIATES, INC. 3600 TRABUE RD., COLUMBUS, OHIO
ENGINEERS: JOHN E. FOSTER & ASSOCIATES, COLUMBUS, OHIO
ENERGY TECHNOLOGIES: BATTELLE / COLUMBUS LABORATORIES

DATE

PROJECT I.R.-70-1(37)2	OHIO	50/68
PREBLE COUNTY PRE-70-2.80	FHWA REGION 5	



See sheet No. 18 for location of water line to 3 Flush Box Hydrants
1"
ANTI-FREEZING DRINKING FOUNTAIN
TO STORM SEWER SYSTEM
FLOOR DRAIN (FD-13)
ANTI-FREEZING JUG FILLER
EXTERIOR FROSTPROOF HYDRANT
3/4"
1"
102
103
104
105
106
107
107 A
108
109
101
WC-1
WC-2
WC-3
WC-4
WC-5
WC-6
WC-7
WC-8
WC-9
WC-10
WC-11
WC-12
WC-13
WC-14
UR-1
UR-2
UR-3
UR-4
LAV-1
LAV-2
LAV-3
LAV-4
LAV-5
LAV-6
H LAV-1
H LAV-2
H LAV-3
H LAV-4
WALL HYDRANT
WATER CHILLER
HOSE BIB
W.H.
THERMOSTATIC WATER CONTROLLER
DF-1
NOTE: FOR LOCATION OF DF-1 SEE 9A-01
SOAP DISPENSING TANKS SEE 9Z-03
1" TYPE K COPPER
2" TYPE K COPPER
CONCRETE PAD BY GEN. CONTRACTOR
WATER METER
LAWN SPRINKLER SYSTEM TAKEOFF SEE 9W-01
MOP SINK
1" PVC
422 GALLON DIAPHRAGM HYDROPNEUMATIC PRESSURE TANK
50 GALLON CHLORINE TANK WITH METERING PUMP AND MIXER
EXTERIOR HOSE BIB
TERMINATION POINT 5'-0" OUTSIDE BUILDING WALL
FROM WELL
TO 10,000 GALLON RESERVOIR TANK
FROM 10,000 GALLON RESERVOIR TANK PUMPS
TO WASTEWATER TREATMENT PLANT
SOAP DISPENSING TANKS SEE 9Z-04
FOR DETAIL SEE 9H-02 FOR CONTINUATION SEE 9WA-01
FIRE SPRINKLER TAKEOFF (REQUIRED ONLY FOR EASTBOUND FACILITY)
FLOOR DRAIN (FD-12)
See sheet No. 9 for location of water line to 3 Flush Box Hydrants
UP
DN

NOTE:
FOR LOCATION OF ANTI-FREEZING DRINKING FOUNTAINS, JUG FILLERS, AND HYDRANTS SEE SHEET 9L (40).

NOTE:
1) ~~MUNICIPAL WATER SERVICE TO BE LOCATED ALONG WALL WHERE WELL WATER SYSTEM IS SHOWN. SEE 9W-02~~
2) ALL PIPING BURIED UNDERGROUND SHALL HAVE A MINIMUM 3'-6" COVER
3) DEFLECTORS ON THE AUTOMATIC FIRE SPRINKLERS SHALL NOT BE MOUNTED MORE THAN 12" BELOW THE FINISHED CEILING.
4) ALL FIRE PROTECTION PIPING & DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13

LEGEND

HOT WATER	-------
COLD WATER	———
TEMPERED WATER	-·-·-·-
AUTOMATIC FIRE SPRINKLER	●

9V-01 POTABLE WATER PLAN

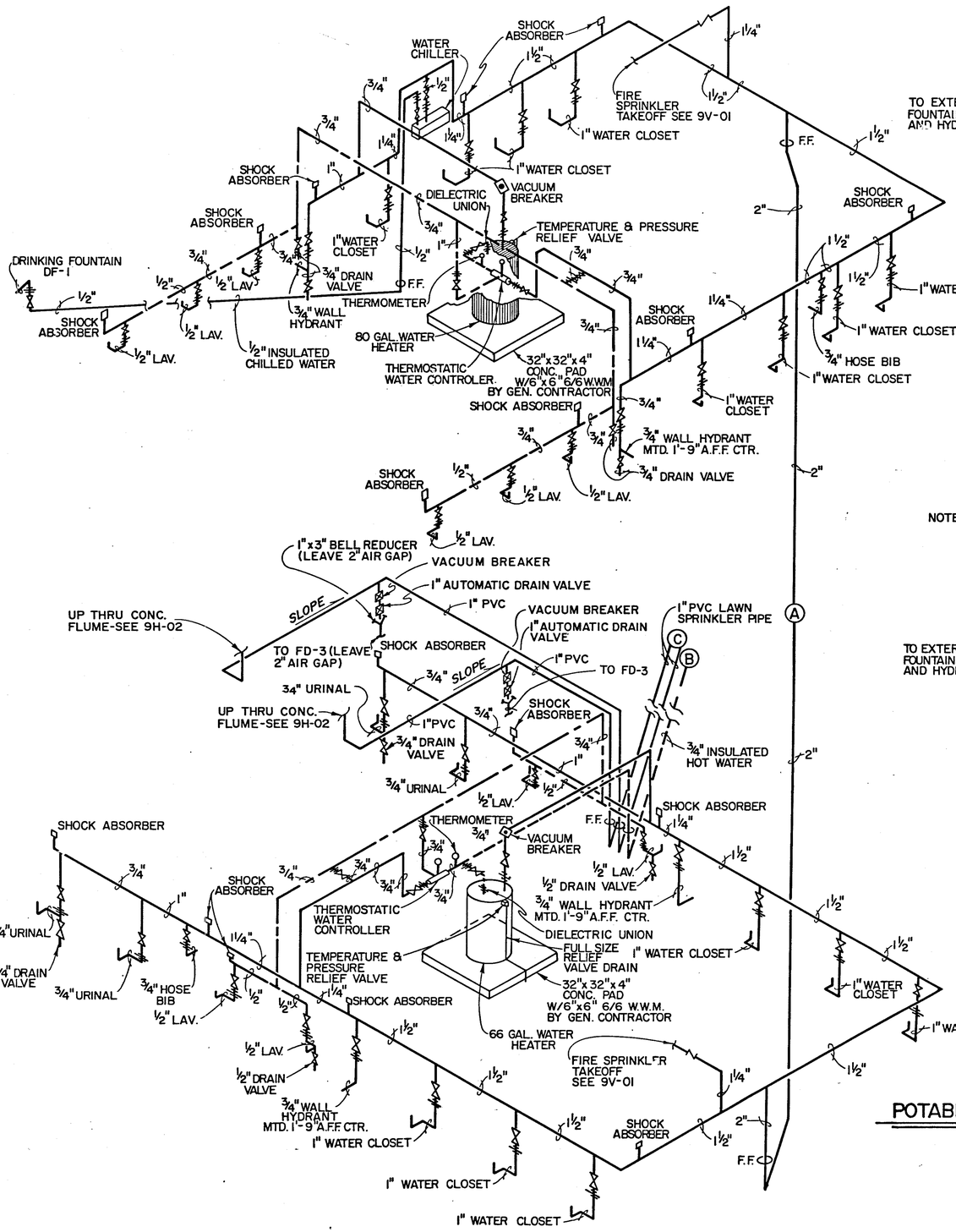
0 1 2 4 6 8
SCALE IN FEET

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

REVISIONS		SHEET NO.
8-29-84 12-21-84	MOTORIST SERVICES BUILDING AND STORAGE UNITS	9V
	ARCHITECTS · WRIGHT / KRITSCHGAU, ASSOCIATES, INC. 3600 TRABUE RD., COLUMBUS, OHIO ENGINEERS · JOHN E. FOSTER & ASSOCIATES, COLUMBUS, OHIO ENERGY TECHNOLOGIES · BATTELLE / COLUMBUS LABORATORIES	DATE

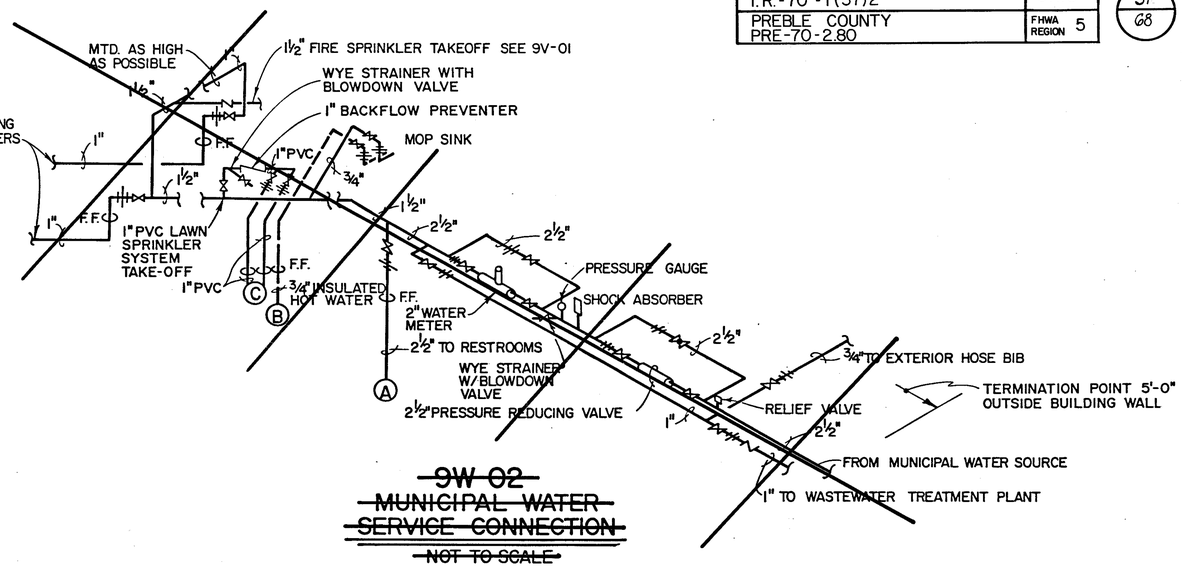
PROJECT	OHIO
I.R.-70 - 1(37)2	
PREBLE COUNTY	FHWA REGION 5
PRE-70-2.80	

51
68



9W-01
POTABLE WATER ISOMETRIC

NOT TO SCALE

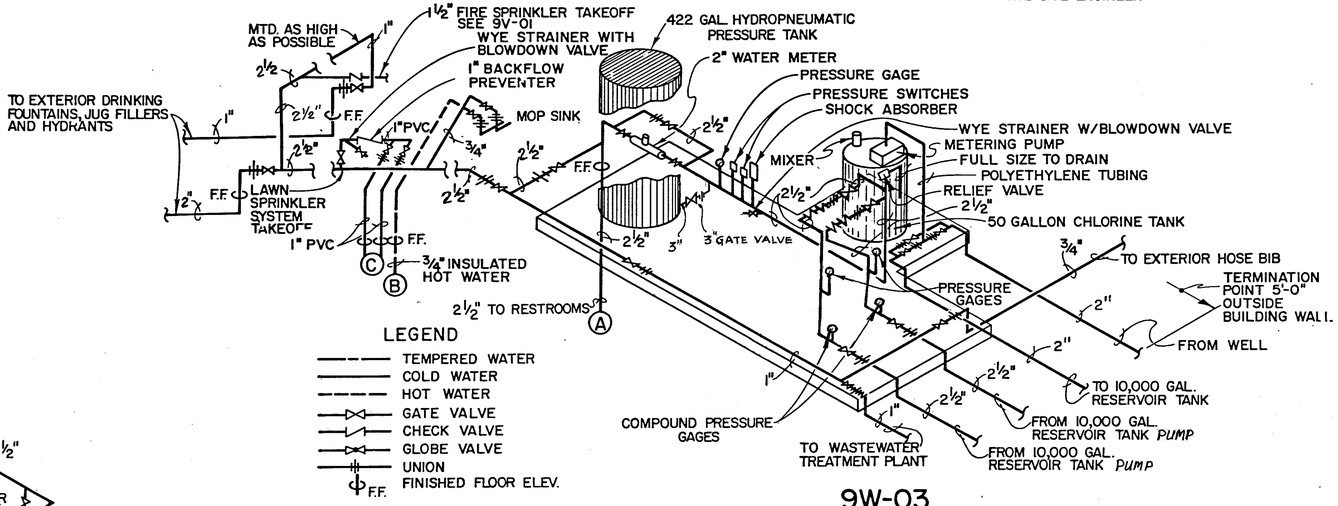


~~9W-02~~
~~MUNICIPAL WATER SERVICE CONNECTION~~

~~NOT TO SCALE~~

NOTE: ALL PIPING BURIED UNDERGROUND SHALL HAVE A MINIMUM 3'-6" COVER.

NOTE: EACH RESERVOIR PUMP SHALL BE SIZED TO DELIVER 55 G.P.M. AT 155 FT. T.D.H. AND 10.75 FT. AVAILABLE N.P.S.H. - T.D.H. AND AVAILABLE N.P.S.H. TO BE VERIFIED BY THE SITE ENGINEER



LEGEND

- TEMPERED WATER
- COLD WATER
- HOT WATER
- GATE VALVE
- CHECK VALVE
- GLOBE VALVE
- UNION
- F.F. FINISHED FLOOR ELEV.

9W-03
WELL WATER SERVICE CONNECTION WITH CHLORINATION SYSTEM

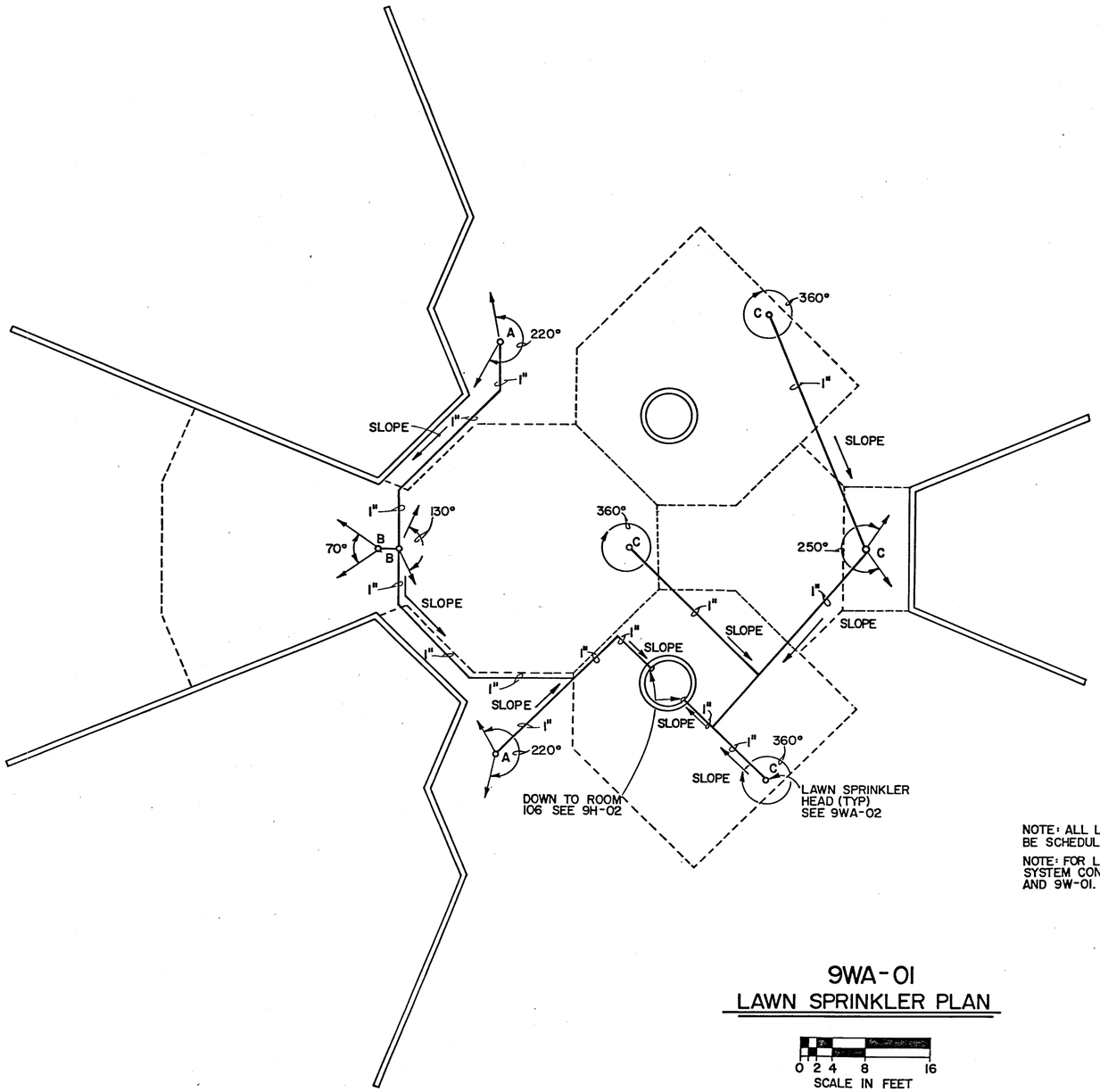
NOT TO SCALE

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

REVISIONS		SHEET NO.
3-28-84 OMIT 9W-02 8-29-84	MOTORIST SERVICES BUILDING AND STORAGE UNITS	9W
	ARCHITECTS-WRIGHT/ KRITSCHGAU, ASSOCIATES, INC. 3600 TRABUE RD., COLUMBUS, OHIO ENGINEERS-JOHN E. FOSTER & ASSOCIATES, COLUMBUS, OHIO ENERGY TECHNOLOGIES-BATTELLE/COLUMBUS LABORATORIES	DATE

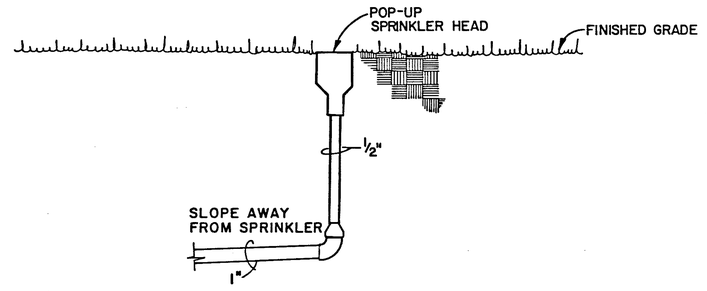
PROJECT	OHIO
I.R.-70-1(37)2	
PREBLE COUNTY	FHWA REGION 5
PRE-70-2.80	

52
68



9WA-01
LAWN SPRINKLER PLAN

0 2 4 8 16
SCALE IN FEET



9WA-02
LAWN SPRINKLER HEAD PIPING DETAIL

NOT TO SCALE

NOTE: ALL LAWN SPRINKLER PIPING TO BE SCHEDULE 40 PVC.

NOTE: FOR LAWN SPRINKLER PIPING SYSTEM CONNECTION SEE 9V-01 AND 9W-01.

LAWN SPRINKLER PIPING

SCALE AS NOTED

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

REVISIONS

MOTORIST SERVICES BUILDING AND STORAGE UNITS

SHEET NO. 9WA

ARCHITECTS · WRIGHT ∨ KRITSCHGAU, ASSOCIATES, INC. 3600 TRABUE RD., COLUMBUS, OHIO
ENGINEERS · JOHN E. FOSTER & ASSOCIATES, COLUMBUS, OHIO
ENERGY TECHNOLOGIES · BATTELLE / COLUMBUS LABORATORIES

DATE

PROJECT	OHIO
I.R.-70-1(37)2	
PREBLE COUNTY	FHWA REGION 5
PRE-70-2.80	

53
68

3" DRAIN LINE TO STORM SYSTEM
FD-13
FD-12
3" DRAIN LINE TO STORM SYSTEM
109
107A
107
108
101
102
103
104
105
106
DF-1
FD-1
FD-2
FD-3
FD-4
FD-5
FD-6
FD-7
FD-8
FD-9
FD-10
FD-11
WC-1
WC-2
WC-3
WC-4
WC-5
WC-6
WC-7
WC-8
WC-9
WC-10
WC-11
WC-12
WC-13
WC-14
LAV-1
LAV-2
LAV-3
LAV-4
LAV-5
LAV-6
HLAV-1
HLAV-2
HLAV-3
HLAV-4
UR-1
UR-2
UR-3
UR-4
DN
2" VENT THROUGH FLUME SEE 9Y-02
UP INTO FLUME SEE 9Y-02
C.O.
C.O. (ALTERNATE LOCATION)
TERMINATION POINT 5'-0" OUTSIDE BUILDING WALL
ALTERNATE ALIGNMENT
2" VENT BURIED ABOVE CEILING DECK.
MOP SINK
VENT STACK OUTLET LOCATION-SEE 9Y-03
2" BURIED VENT INTO FLUME SEE 9Y-03

9X-01
SANITARY AND STORM PLUMBING PLAN

0 1 2 4 6 8
SCALE IN FEET

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

REVISIONS

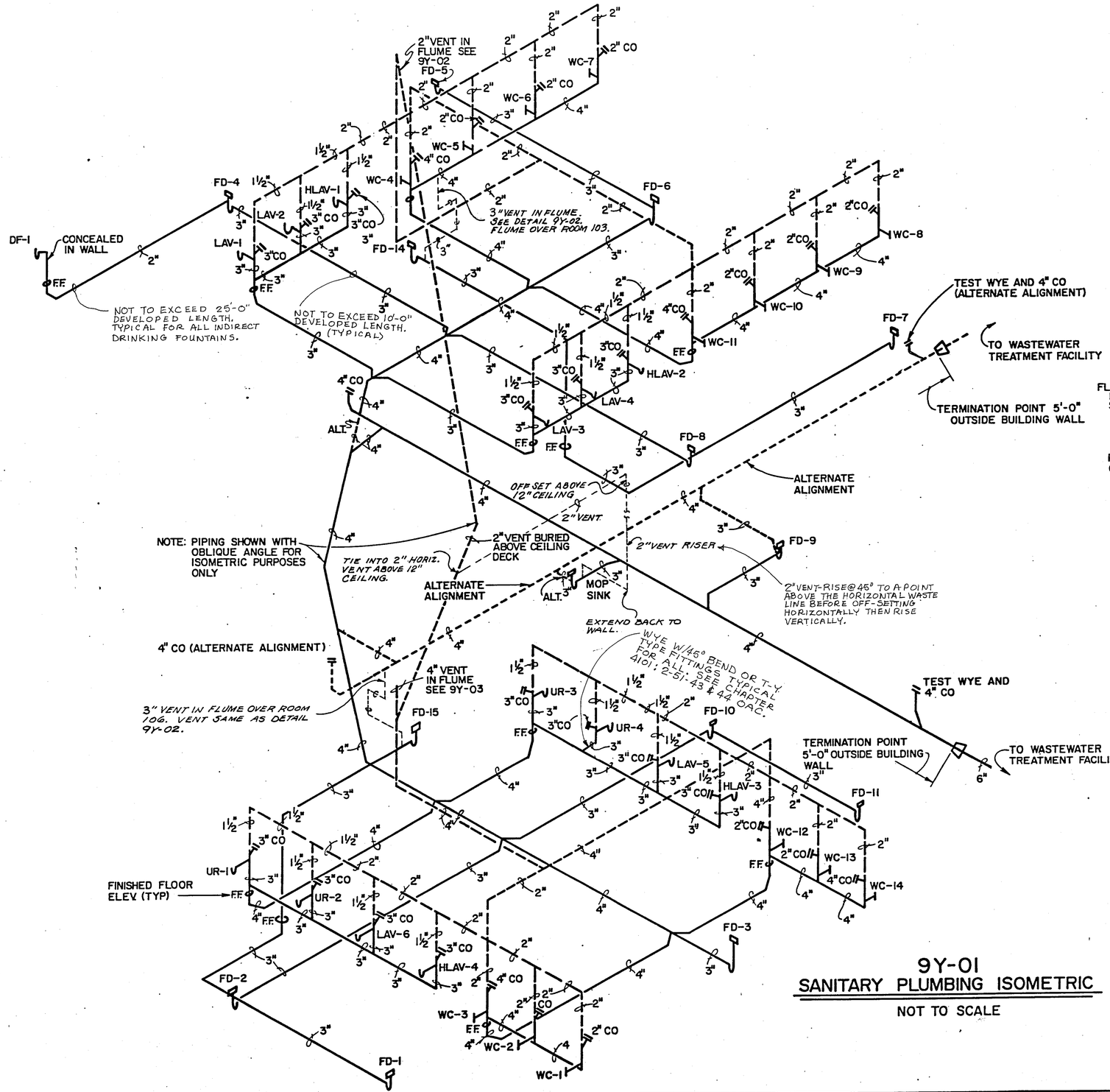
MOTORIST SERVICES BUILDING AND STORAGE UNITS

SHEET NO. 9X

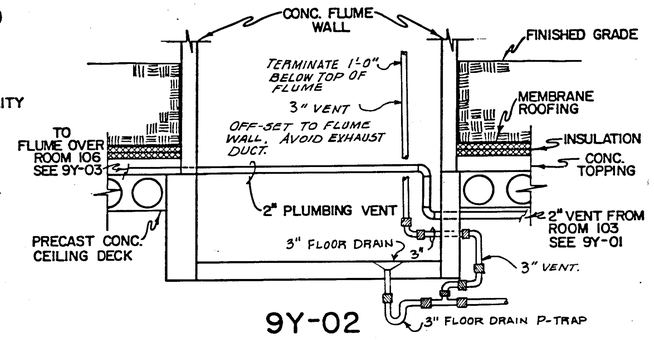
DATE

ARCHITECTS · WRIGHT / KRITSCHGAU, ASSOCIATES, INC. 3600 TRABUE RD., COLUMBUS, OHIO
ENGINEERS · JOHN E. FOSTER & ASSOCIATES, COLUMBUS, OHIO
ENERGY TECHNOLOGIES · BATTELLE / COLUMBUS LABORATORIES

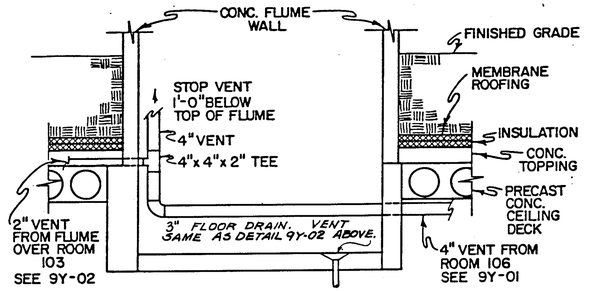
NOTES: 1) ALL LAVATORIES SHALL HAVE 1½" TRAPS.
2) ALL URINALS SHALL HAVE 2" WASTE OUTLETS.
3) ALL SOIL, WASTE, AND VENT PIPING SHALL BE CAST IRON, NO HUB.
4) FOR LOCATION OF FD-14 AND FD-15, SEE 9H-02.
5) DO NOT BLOCK FLUME ACCESS DOORS WITH VENT PIPING.
6) FD-14 & FD-15 ARE LOCATED IN THE FLUMES. SEE 9H-02 AND 9H-04.



9Y-01
SANITARY PLUMBING ISOMETRIC
NOT TO SCALE



9Y-02
PLUMBING VENT PIPING IN FLUME OVER ROOM 103
NOT TO SCALE



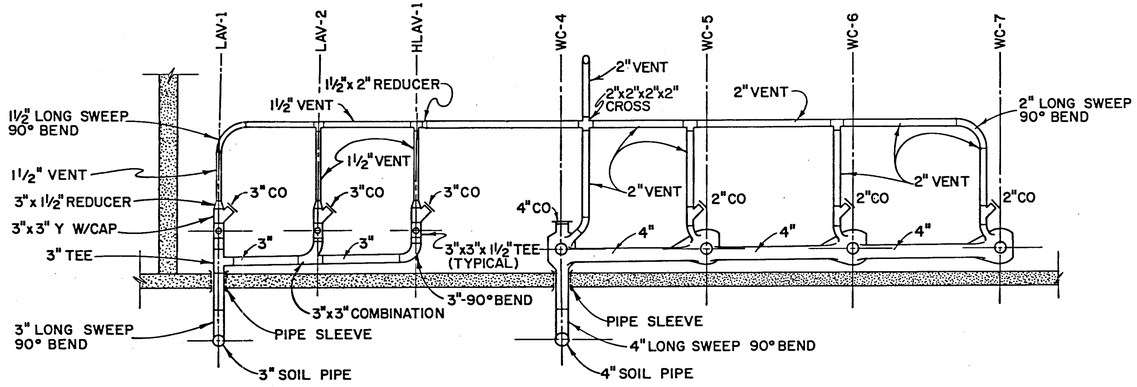
9Y-03
PLUMBING VENT PIPING IN FLUME OVER ROOM 106
NOT TO SCALE

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

REVISIONS	MOTORIST SERVICES BUILDING AND STORAGE UNITS	SHEET NO.
10/27/83 9-6-84 10-10-84		9Y
	ARCHITECTS · WRIGHT-V KRUTSCHGALL, ASSOCIATES, INC. 3600 TRABUE RD., COLUMBUS, OHIO ENGINEERS · JOHN E. FOSTER & ASSOCIATES, COLUMBUS, OHIO ENERGY TECHNOLOGIES · BATTELLE / COLUMBUS LABORATORIES	DATE

PROJECT	OHIO
I.R.-70-1(37)2	
PREBLE COUNTY	FHWA REGION 5
PRE-70-2.80	

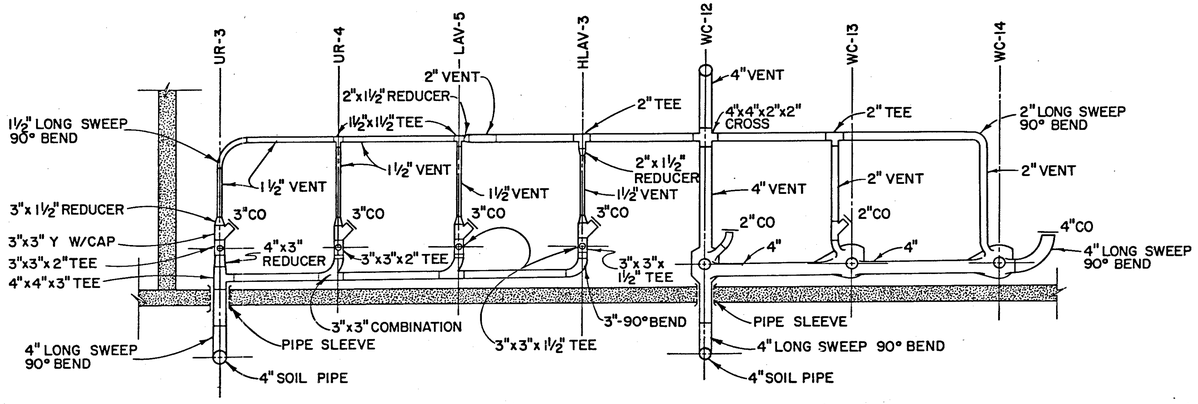
55
G8



9Z-01
TYPICAL SANITARY PLUMBING SECTION - WOMENS TOILET

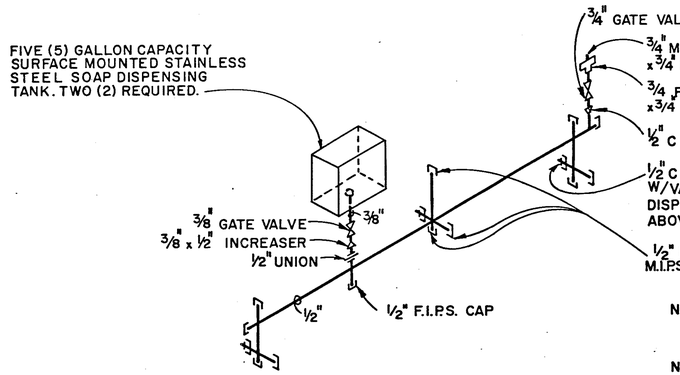
NOT TO SCALE

NOTE:
THE PIPING INDICATED ON SECTIONS 9Z-01 AND 9Z-02 REPRESENT PLUMBING TO THE REFERENCED FIXTURES. FIXTURES THAT ARE OPPOSITE THOSE INDICATE ARE PLUMBED AS A MIRROR IMAGE. SOME VENT PIPE SIZES DIFFER AND ARE TO BE SIZED AS PER 9Y-01.



9Z-02
TYPICAL SANITARY PLUMBING SECTION - MENS TOILET

NOT TO SCALE



NOTE 1
PIPING INDICATED FOR LAV-1, LAV-2 & HLAV-1, PIPING FOR LAV-3, LAV-4 & HLAV-2 IS THE MIRROR IMAGE.

NOTE 2
USE ½" TYPE "K" HARD DRAWN COPPER TUBING WITH CAST BRASS FITTINGS.

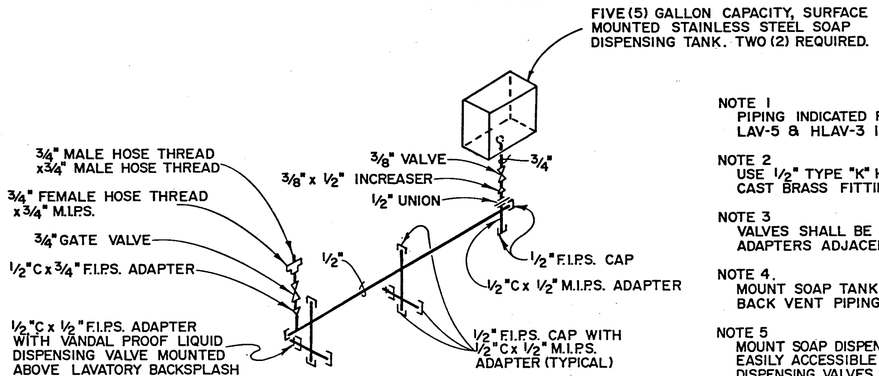
NOTE 3
VALVES SHALL BE SCREWED TYPE WITH CAST BRASS ADAPTERS ADJACENT TO VALVES AS REQUIRED.

NOTE 4
MOUNT SOAP TANK AND PIPING ON WALLS ABOVE BACK VENT PIPING IN ROOM 103.

NOTE 5
MOUNT SOAP DISPENSING VALVES SO THAT THEY ARE EASILY ACCESSIBLE - DO NOT BLOCK ACCESS TO SOAP DISPENSING VALVES WITH PLUMBING VENT PIPING. SEE NOTE 5. BELOW.

9Z-03
TYPICAL SOAP DISPENSING UNIT ISOMETRIC - WOMENS TOILET

NOT TO SCALE



NOTE 1
PIPING INDICATED FOR LAV-6 & HLAV-4, PIPING FOR LAV-5 & HLAV-3 IS THE MIRROR IMAGE.

NOTE 2
USE ½" TYPE "K" HARD DRAWN COPPER TUBING WITH CAST BRASS FITTINGS.

NOTE 3
VALVES SHALL BE SCREWED TYPE WITH CAST BRASS ADAPTERS ADJACENT TO VALVES AS REQUIRED.

NOTE 4
MOUNT SOAP TANK AND PIPING ON WALLS ABOVE BACK VENT PIPING IN ROOM 106.

NOTE 5
MOUNT SOAP DISPENSING VALVES SO THAT THEY ARE EASILY ACCESSIBLE - DO NOT BLOCK ACCESS TO SOAP DISPENSING VALVES WITH PLUMBING VENT PIPING. SEE SPECIFICATIONS FOR MOUNTING BRACKET REQUIRED.

9Z-04
TYPICAL SOAP DISPENSING UNIT ISOMETRIC - MENS TOILET

NOT TO SCALE

PLUMBING DETAILS

NOT TO SCALE

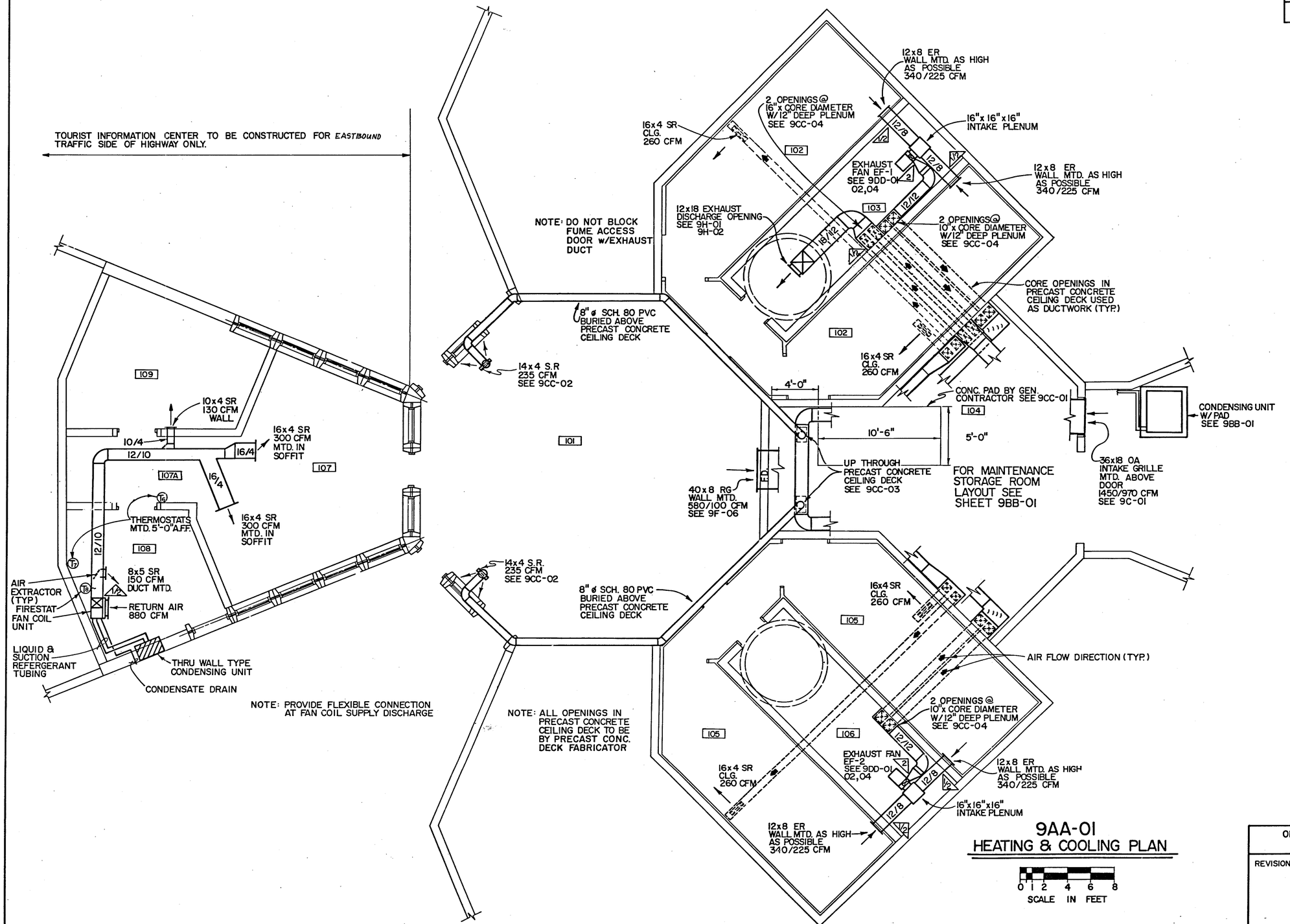
OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

REVISIONS	MOTORIST SERVICES BUILDING AND STORAGE UNITS	SHEET NO. 9Z
	ARCHITECTS · WRIGHT V KRITSCHGAU, ASSOCIATES, INC. 3600 TRABUE AVE., COLUMBUS, OHIO ENGINEERS · JOHN E. FOSTER & ASSOCIATES, COLUMBUS, OHIO ENERGY TECHNOLOGIES · BATTELLE/COLUMBUS LABORATORIES	DATE

PROJECT	OHIO
I.R.-70-1(37)2	
PREBLE COUNTY	FHWA REGION 5
PRE-70-2.80	

56
68

TOURIST INFORMATION CENTER TO BE CONSTRUCTED FOR EASTBOUND TRAFFIC SIDE OF HIGHWAY ONLY.



NOTE: PROVIDE FLEXIBLE CONNECTION AT FAN COIL SUPPLY DISCHARGE

NOTE: ALL OPENINGS IN PRECAST CONCRETE CEILING DECK TO BE BY PRECAST CONC. DECK FABRICATOR

9AA-01
HEATING & COOLING PLAN

0 1 2 4 6 8
SCALE IN FEET

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

REVISIONS

MOTORIST SERVICES BUILDING AND STORAGE UNITS

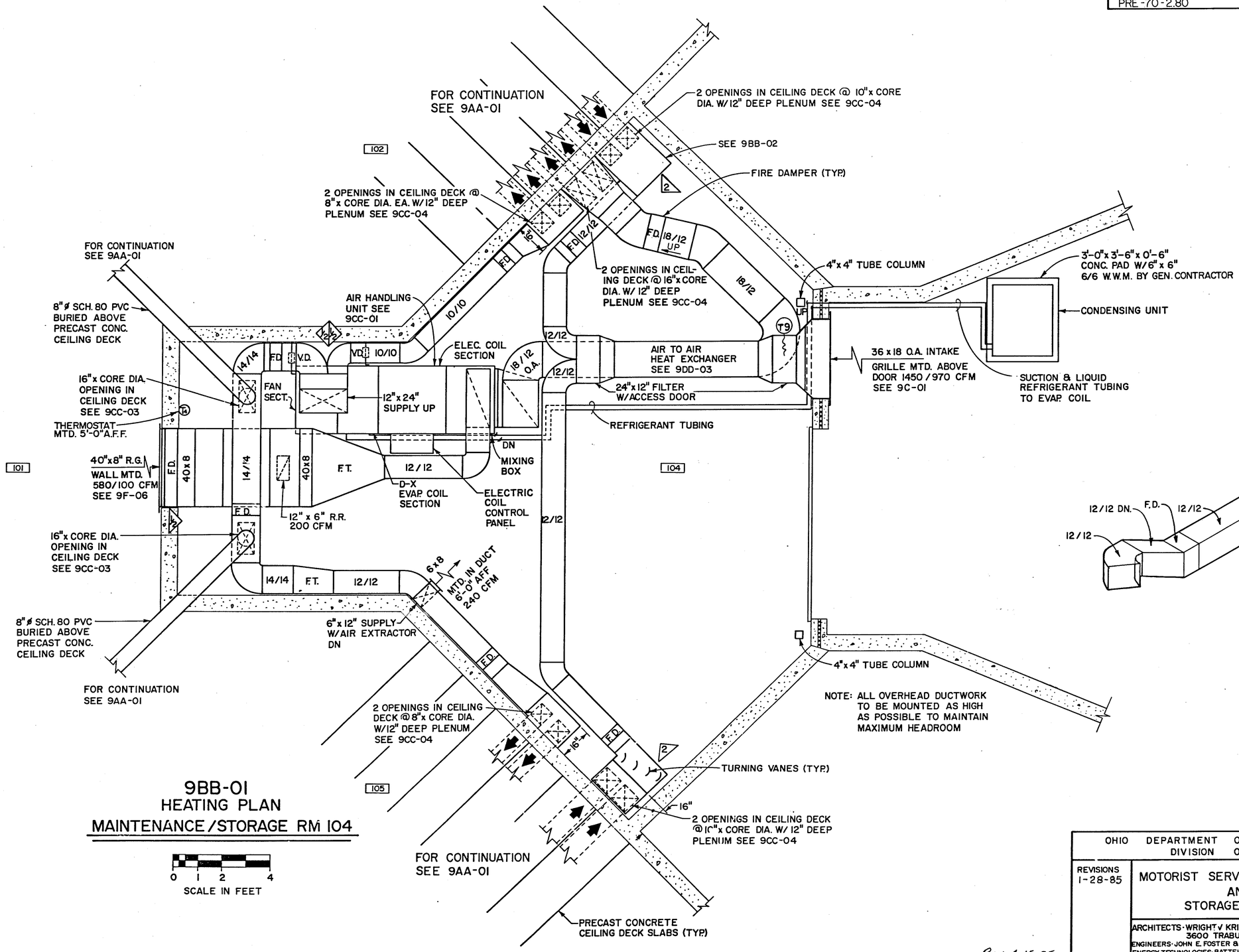
SHEET NO. 9AA

ARCHITECTS · WRIGHT √ KRITSCHGAU, ASSOCIATES, INC. 3600 TRABUE RD., COLUMBUS, OHIO
ENGINEERS · JOHN E. FOSTER & ASSOCIATES, COLUMBUS, OHIO
ENERGY TECHNOLOGIES · BATTELLE / COLUMBUS LABORATORIES

DATE

PROJECT I.R.-70-1(37)2	OHIO
PREBLE COUNTY PRE-70-2.80	FHWA REGION 5

57
68



9BB-01
HEATING PLAN
MAINTENANCE/STORAGE RM 104

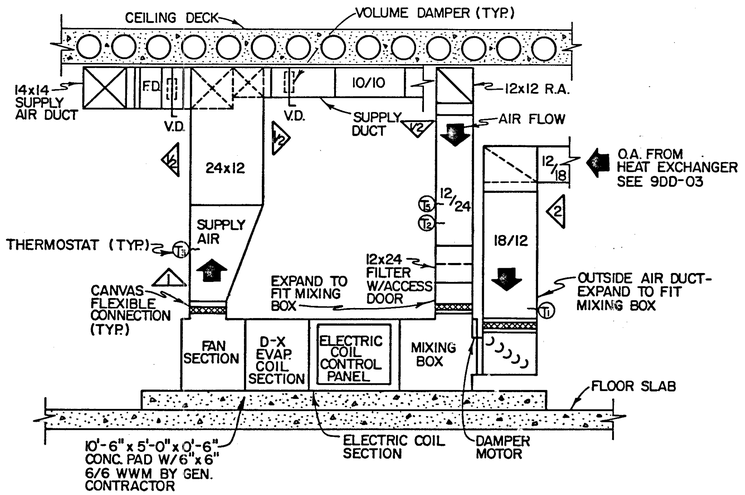
0 1 2 4
SCALE IN FEET

Rev. 4-15-85

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

REVISIONS		SHEET NO.
1-28-85	MOTORIST SERVICES BUILDING AND STORAGE UNITS	9BB
	ARCHITECTS-WRIGHT V KRITSCHGAU, ASSOCIATES, INC. 3600 TRABUE RD., COLUMBUS, OHIO ENGINEERS-JOHN E. FOSTER & ASSOCIATES, COLUMBUS, OHIO ENERGY TECHNOLOGIES-BATTELLE/COLUMBUS LABORATORIES	DATE

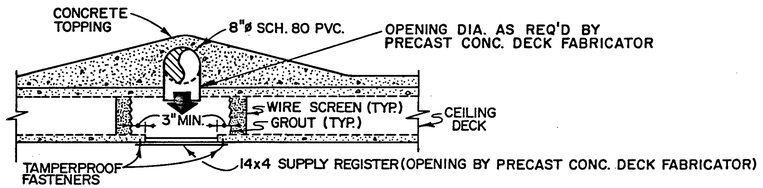
PROJECT	OHIO
I.R.-70-1(37)2	
PREBLE COUNTY	FHWA REGION 5
PRE-70-2.80	



NOTE: 1.) MOUNT FAN SECTION, D-X EVAP. COIL, ELECTRIC COIL AND MIXING BOX ON VIBRATION ISOLATORS AS SPECIFIED.
2.) PIPE FULL SIZE CONDENSATE DRAIN W/ "P" TRAP FROM EVAP. COIL TO FD-9

9CC-01
AIR HANDLING UNIT ELEVATION

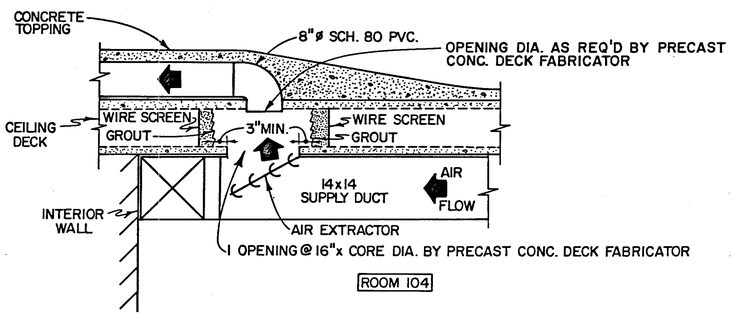
NOT TO SCALE



NOTE: CARE SHOULD BE TAKEN TO ENSURE THAT GROUT PROPERLY SEALS CORE OPENINGS. USE NON-SHRINK GROUT ONLY.

9CC-02
MOTORIST SERVICE CENTER SUPPLY REGISTER DETAIL

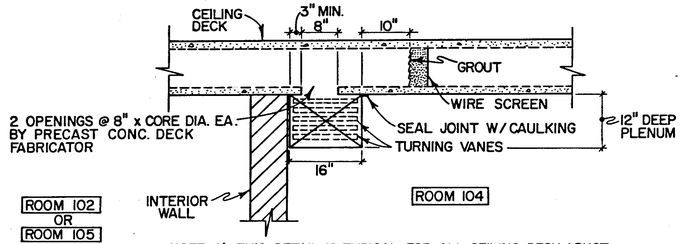
NOT TO SCALE



NOTE: CARE SHOULD BE TAKEN TO ENSURE THAT GROUT PROPERLY SEALS CORE OPENINGS. USE NON-SHRINK GROUT ONLY.

9CC-03
MOTORIST SERVICE CENTER SUPPLY AIR DUCT TAKEOFF DETAIL

NOT TO SCALE



NOTE: 1) THIS DETAIL IS TYPICAL FOR ALL CEILING DECK / DUCT PENETRATIONS IN ROOM 104 - EXCEPT CEILING DECK OPENING SIZES AND DUCT SIZES ARE SHOWN ON SHEET 9AA
2) CARE SHOULD BE TAKEN TO ENSURE THAT GROUT PROPERLY SEALS CORE OPENINGS. USE NON-SHRINK GROUT ONLY.

9CC-04
SUPPLY AIR CEILING DECK PENETRATION DETAIL

NOT TO SCALE

HVAC DETAILS

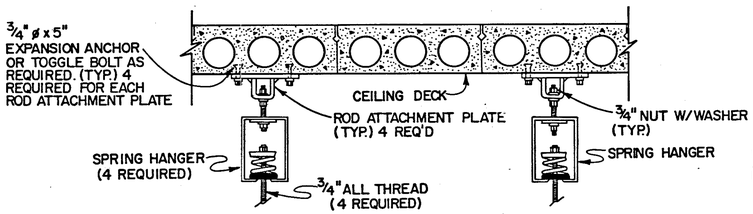
NOT TO SCALE

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

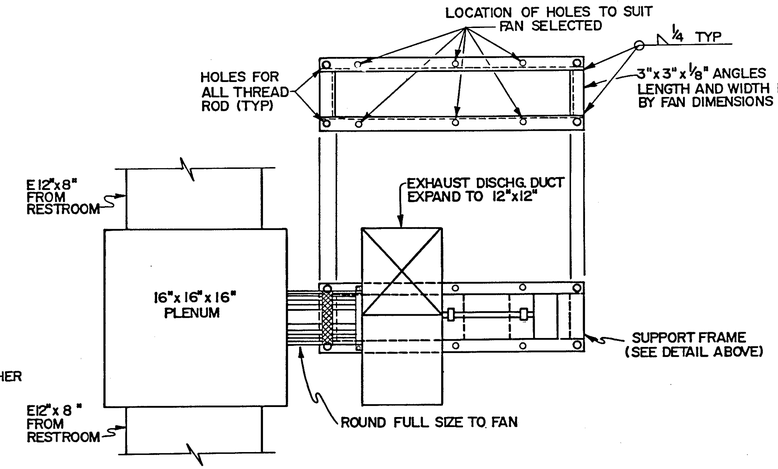
REVISIONS	MOTORIST SERVICES BUILDING AND STORAGE UNITS	SHEET NO. 9CC
	ARCHITECTS · WRIGHT / KRITSCHGAU, ASSOCIATES, INC. 3600 TRABUE RD., COLUMBUS, OHIO ENGINEERS · JOHN E. FOSTER & ASSOCIATES, COLUMBUS, OHIO ENERGY TECHNOLOGIES · BATTELLE / COLUMBUS LABORATORIES	DATE

PROJECT		OHIO
I.R.-70-1(37)2		
PREBLE COUNTY	FHWA REGION 5	
PRE-70-2.80		

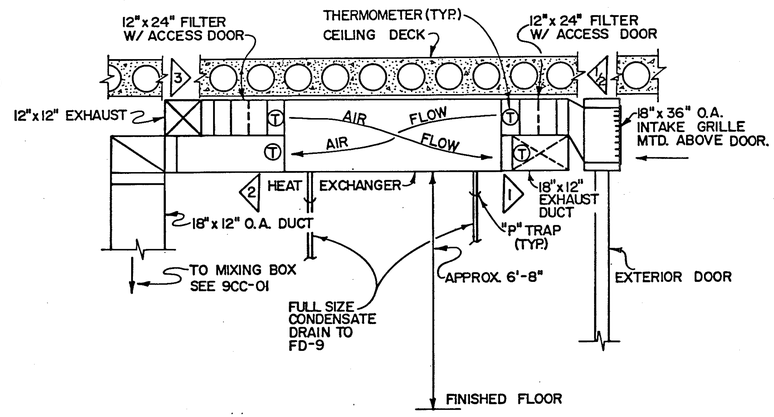
59
68



9DD-01
EXHAUST FAN HANGER DETAIL
NOT TO SCALE

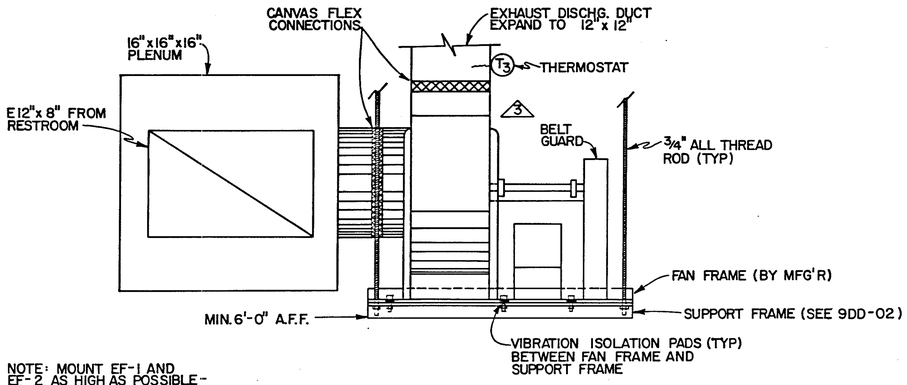


9DD-02
PLAN
EXHAUST FAN AND SUPPORT FRAME DETAIL
NOT TO SCALE



9DD-03
ELEVATION
AIR TO AIR HEAT EXCHANGER
NOT TO SCALE

NOTE: SUSPEND AIR TO AIR HEAT EXCHANGER AS PER 9DD-01 AND MANUFACTURER'S RECOMMENDATIONS. MOUNT AIR TO AIR HEAT EXCHANGER TO DUCTS USING COMPANION FLANGES.



NOTE: MOUNT EF-1 AND EF-2 AS HIGH AS POSSIBLE - 6'-0" A.F.F. MIN.

9DD-04
ELEVATION
EXHAUST FAN DETAIL
NOT TO SCALE

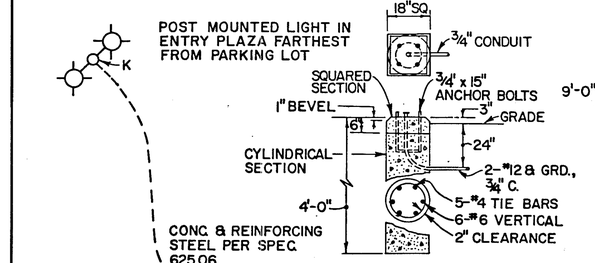
HVAC DETAILS
NOT TO SCALE

OHIO DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS		
REVISIONS	MOTORIST SERVICES BUILDING AND STORAGE UNITS	SHEET NO. 9DD
	ARCHITECTS: WRIGHT, KRITSCHGAU, ASSOCIATES, INC. 3600 TRABUE RD., COLUMBUS, OHIO ENGINEERS: JOHN E. FOSTER & ASSOCIATES, COLUMBUS, OHIO ENERGY TECHNOLOGIES: BATTELLE / COLUMBUS LABORATORIES	DATE

PROJECT	OHIO
I.R.-70-1(37)2	
PREBLE COUNTY	FHWA REGION 5
PRE-70-2.80	

60
68

POST MOUNTED LIGHT IN ENTRY PLAZA FARTHEST FROM PARKING LOT



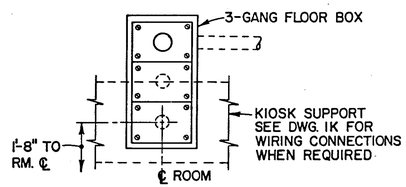
9EE-04 "K" FIX. FOUNDATION

NOT TO SCALE

NOTE: ROOMS 107, 107A, 108, AND 109 TO BE CONSTRUCTED ON *EASTBOUND* TRAFFIC SIDE OF HIGHWAY ONLY.

9EE-01 LIGHTING PLAN

0 1 2 4 6 8
SCALE IN FEET

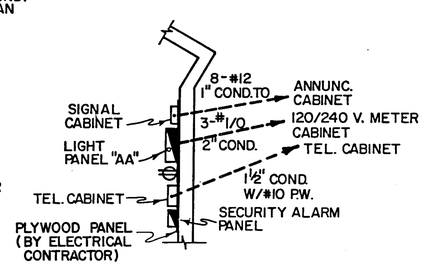


9EE-03 FLOOR BOX

NOT TO SCALE

ELECTRIC SYMBOLS

DEVICE		MOUNTING
$ $3	WALL SWITCH, 3=3 WAY	4'-0" ABV. FLOOR
⇔	DUPLEX RECEPTACLE	2'-0" ABV. FLOOR
⊖	CLOCK RECEPTACLE	7'-6" ABV. FLOOR
DSS	DOOR SECURITY SWITCH	
Ts	THERMOSTAT	5'-0" ABV. FLOOR
	ELECTRIC HAND DRYER	SEE DETAIL 9GG-07
	TELEPHONE OUTLET	
M.H.	MTG. HGT. ABV. FIN. FLOOR	
J.B.	JUNCTION BOX	
◇	REFERENCE TO ELECTRIC NOTES 9FF-04	



9EE-02 ELECTRIC EQUIPMENT PARTIAL PLAN

NOT TO SCALE

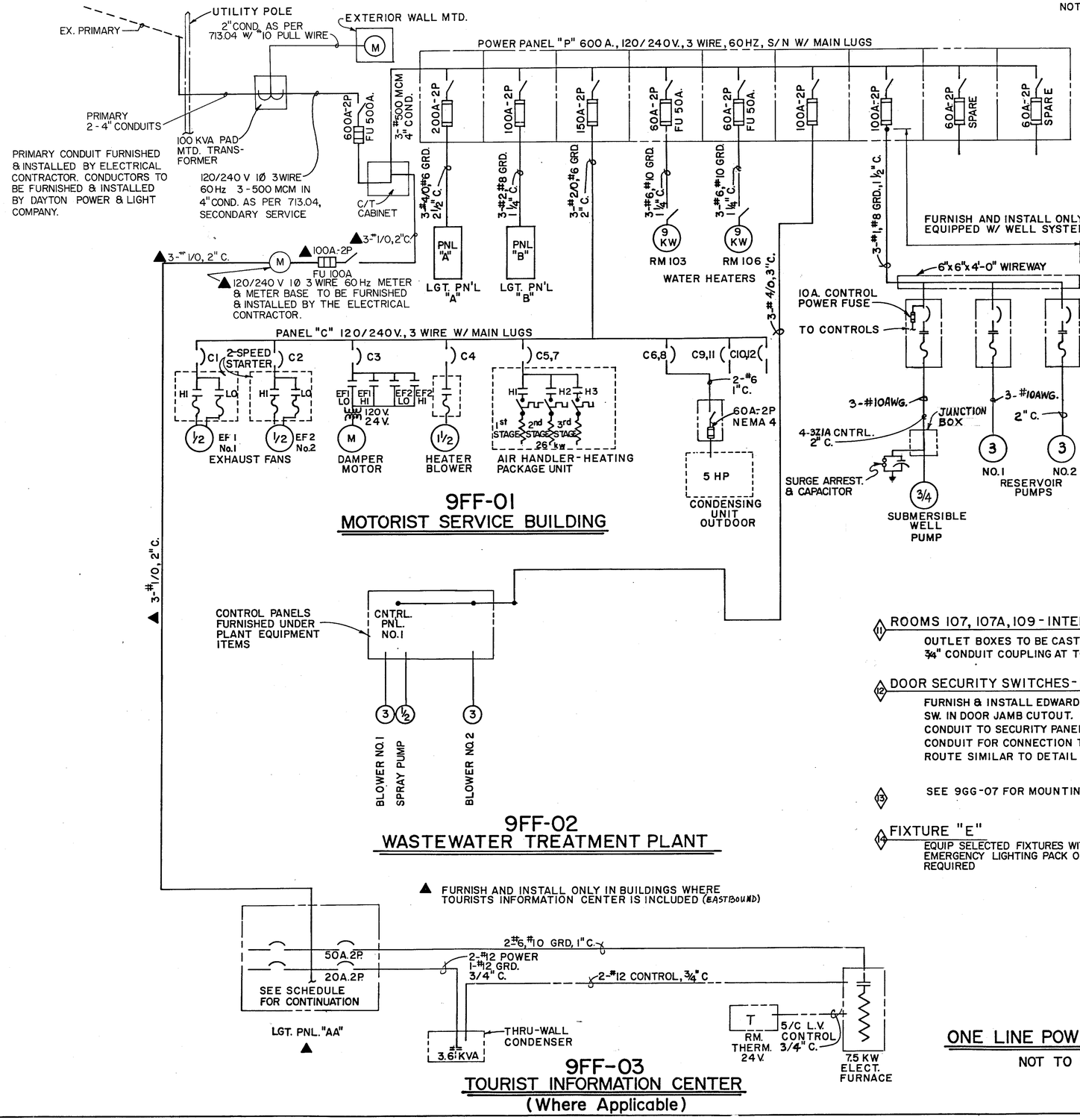
OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

REVISIONS		SHEET NO.
8-29-84	MOTORIST SERVICES BUILDING AND STORAGE UNITS	9EE
	ARCHITECTS-WRIGHT / KRITSCHGAU, ASSOCIATES, INC. 3600 TRABUE RD., COLUMBUS, OHIO ENGINEERS-JOHN E. FOSTER & ASSOCIATES, COLUMBUS, OHIO ENERGY TECHNOLOGIES-BATTELLE / COLUMBUS LABORATORIES	DATE

PROJECT	OHIO
I.R.-70-1(37)2	
PREBLE COUNTY	FHWA REGION 5
PRE-70-2.80	

61
68

NOTE: FUSES SHALL BE CURRENT LIMITING TYPE SHAWNUT A2YR OR EQUAL. PROVIDE 1 SPARE SET FOR EACH SWITCH.



9FF-01
MOTORIST SERVICE BUILDING

9FF-02
WASTEWATER TREATMENT PLANT

▲ FURNISH AND INSTALL ONLY IN BUILDINGS WHERE TOURISTS INFORMATION CENTER IS INCLUDED (EASTBOUND)

9FF-03
TOURIST INFORMATION CENTER
(Where Applicable)

ONE LINE POWER DIAGRAM
NOT TO SCALE

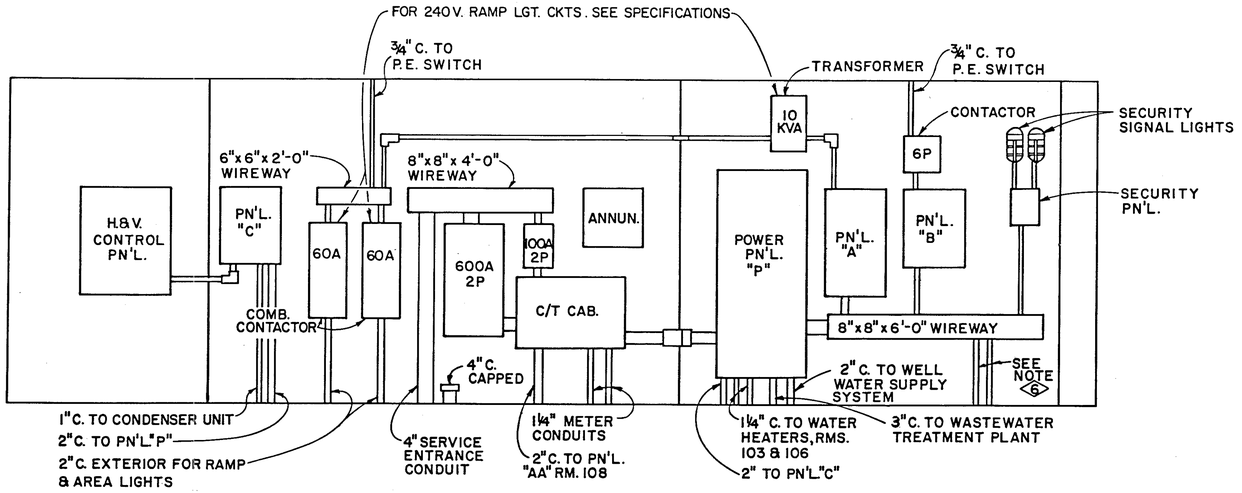
9FF-04
ELECTRICAL NOTES

1. **POWER RECEPTACLE PEDESTAL**
   EQUAL TO SQUARE D #PAK 13P 60 INCH HIGH RAINPROOF PEDESTAL SET 25 INCHES IN THE GROUND AND CONCRETE ENCASED BELOW GRADE. PROVIDE A 30 AMPERE RECEPTACLE WITH A 30 AMPERE, 1 POLE GFI BREAKER. INCLUDE PROVISION FOR PADLOCKING. SEE LANDSCAPE ARCHITECTURE DRAWINGS FOR LOCATION ADJACENT TO FLAGPOLE.
2. **FLOOR BOX**
   WIRED J.B. FOR KIOSK EQUAL TO STEEL CITY BRONZE # 643 W/ P64-¾" PLATES.
3. **FLAGPOLE LIGHTING**
   EXTEND 1¼" CONDUITS BELOW FLAGPOLE FOUNDATION AND ENTER FROM BOTTOM (48" BELOW GRADE). EXTEND TO 45" ABOVE GRADE. MOUNT LIGHTS 10' ABOVE GRADE AS PER MANUFACTURER'S RECOMMENDATIONS. UTILIZE WINCH ENTRY FOR ACCESS.
4. **TELEPHONE OUTLET MOUNTING HEIGHT**
   VERIFY TELEPHONE MOUNTING HEIGHT WITH LOCAL TELEPHONE COMPANY AND COORDINATE WITH PRECAST CONCRETE PANEL MANUFACTURER.
5. **INSTALLATION OF ELECTRIC OUTLET BOXES AND CONDUIT**
   ALL WALL PANELS ARE PRECAST CONCRETE. PANEL MANUFACTURER SHALL INSTALL OUTLET BOXES AND CONDUITS FOR ALL DEVICES EXCEPT SURFACE EQUIPMENT IN ROOMS 103, 104, 106 AND 108. SEE DETAILS 9GG-03, 9GG-04, 9GG-05, 9GG-06 AND 9GG-07.
6. **CIRCUIT ROUTING FOR ROOMS 102 AND 105**
   ROUTE ALL CIRCUITS FROM ROOMS 102 AND 105 TO JUNCTION BOXES IN ROOMS 103 AND 106 RESPECTIVELY. EXTEND TO PANEL "A" AND PANEL "B" IN 1½" CONDUIT BELOW SLABS.
7. **HAND DRYERS**
   INSTALL 8 HAND DRYERS AS PER 9GG-07 AND 9F-14.
8. **"E" LIGHTING FIXTURES**
   FEED ALL INTERIOR MOUNTED "E" LIGHTING FIXTURES AND RECEPTACLES THRU WALLS FROM ROOMS 103, 104 AND 106. PROVIDE CAST-IN-PLACE BOX FOR RECEPT.
9. **CEILING LIGHTS AND RECEPTACLES**
   ROUTE CEILING LIGHTS AND RECEPTACLE CONDUIT IN PRECAST CONCRETE CEILING PANELS.
10. **RECEPTACLE CONDUIT**
    FIELD INSTALL RECEPTACLE CONDUITS BEHIND 5/8" DRYWALL AND WITHIN THE 2" INSULATION AS REFERENCED BY 9D-04.
11. **ROOMS 107, 107A, 109 - INTERIOR WALLS**
    OUTLET BOXES TO BE CAST IN PANEL WITH ¾" CONDUIT COUPLING AT TOP PER 9GG-07
12. **DOOR SECURITY SWITCHES - RM. 104, 107, 108**
    FURNISH & INSTALL EDWARDS NO. 502 DOOR SW. IN DOOR JAMB CUTOUT. EXTEND ½" CONDUIT TO SECURITY PANEL. USE ½" FLEXIBLE CONDUIT FOR CONNECTION TO JAMB SWITCH. ROUTE SIMILAR TO DETAIL 9GG-04.
13. SEE 9GG-07 FOR MOUNTING
14. **FIXTURE "E"**
    EQUIP SELECTED FIXTURES WITH BATTERY OPERATED EMERGENCY LIGHTING PACK OPTION "EL" TOTAL 6 REQUIRED

OHIO DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS		
REVISIONS 8-29-84	MOTORIST SERVICES BUILDING AND STORAGE UNITS	SHEET NO. 9FF
	ARCHITECTS-WRIGHT-V KRITSCHGAU, ASSOCIATES, INC. 3600 TRABUE RD., COLUMBUS, OHIO ENGINEERS-JOHN E. FOSTER & ASSOCIATES, COLUMBUS, OHIO ENERGY TECHNOLOGIES-BATTELLE/COLUMBUS LABORATORIES	DATE

PROJECT	OHIO
I.R. - 70 - 1 (37)2	
PREBLE COUNTY	FHWA REGION 5
PRE -70 - 2.80	

62
63

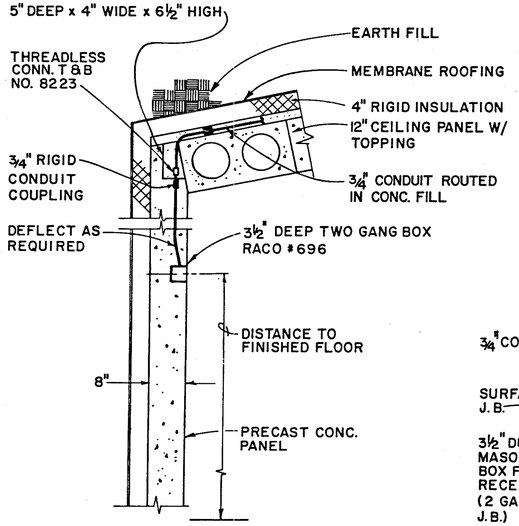


9GG-01
SERVICE EQUIPMENT ELEVATION

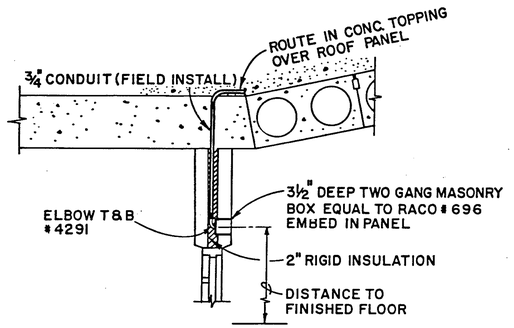
NOT TO SCALE

9GG-02
FIXTURE SCHEDULE

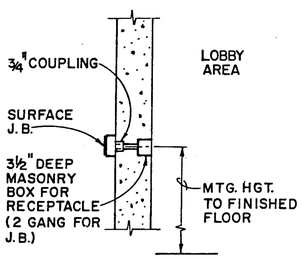
MARK	SYMBOL	FIX. TYPE	MANUFACTURER	CATALOG NO.	LAMP	REMARKS
A		FLUSH UP LIGHT	HYDREL	6062 MV 175/120 HPF	175 W. MV.	W/6111 REFLECTOR 6174 LOUVER & BRONZE FINISH
B		SOFFIT LIGHT	GUTH	B17-651/120/TP	175/BT 28/MH	BRONZE FINISH W/TAMPERPROOF SCREWS
C		CLNG. SURFACE	NL	MI75-4107	175W. MH E28	#313 BRONZE FINISH
D		SURFACE FLUOR.	LITHONIA	WA-240-A/120	2-F40 W	
E		WALL MTD. FLUOR.	KENALL	7170-DW-9518/120	1-F40 W	W/TAMPERPROOF SCREWS & WOOD GRAIN FACE SEE NOTE 4
F		WALL MTD.	GUTH	RHI-400-IBR-120	400/E18/MH	W/GLASS LENS MT. 7'-6" ABOVE FLOOR TO BOTTOM OF FIXTURE
G		EXIT LIGHT	KENALL	6590 GW-EM	2-20W-T6 ½	GREEN ON WHITE W/TUNGSTEN HALOGEN EMERGENCY LIGHT PACK
H		WALL MTD. ROOF LIGHT	NL	4122-175MH-120-LB-KL	2-175/E28/MH	BRONZE FINISH MT. 5'-0" ABOVE BOTTOM OF FLUME
J		UP/DOWN LIGHT MTD. ON FLAGPOLE	NL	DK-1210/175/LTFP	2-175W MV.-R 40	TWO FIX'S/POLE MT. 10'-0" ABOVE GROUND
K		TWIN POLE MTD. LIGHTS	HOLOPHANE	CAXSQ-14J/2A/245HA-120-BZ3	2-175 W/MH CLEAR	TWO FIX'S BRONZE FINISH ON SQ. AL. 14'-0" BRONZE FINISH POLE



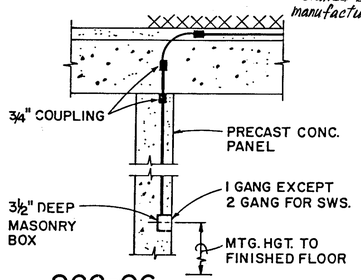
9GG-03
(N.T.S.)



9GG-04
(N.T.S.)

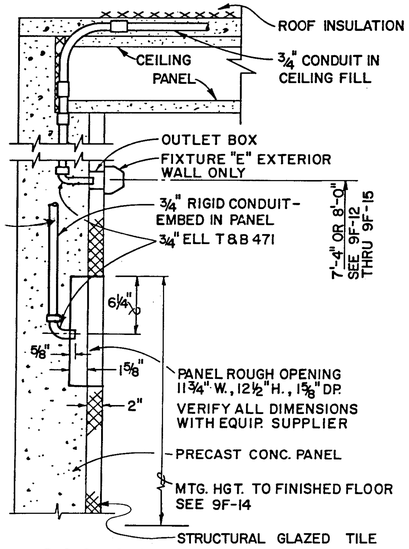


9GG-05
(N.T.S.)



9GG-06
(N.T.S.)

All conduit & fittings, etc. imbedded in precast units shall be furnished and installed by the precast manufacturer.



9GG-07
HAND DRYER OUTLET FIXT. "E" - EXTERIOR WALL

NOT TO SCALE

9GG-08
PRECAST PANELS W/ EMBEDDED OUTLETS AND CONDUITS SCHEDULE

ROOM 101					
WALL ORIENTATION	DEVICE	DETAIL 9GG-	HGT. FIN. FLR.	DIST. FROM WALL ℄	NO. OF CONDUITS
0°	J.B.	05	7'-6"	0	2
0°	RECEPT.	05	24"	48" L	1
45°	LGT. F	03	7'-6"	0	2
90°	J.B.	03	7'-6"	0	2
90°	TEL.	03	* 54"	48" L	1
90°	TEL.	03	* 30"	48" R	1
135°	LGT. F	04	7'-6"	0	2
180°	J.B.	04	7'-6"	0	2
235°	LGT. F	04	7'-6"	0	2
270°	J.B.	03	7'-6"	0	1
270°	RECEPT.	03	24"	48" L	1
315°	LGT. F	03	7'-6"	0	1

* REFER TO NOTE 4 SHEET 9FF

CONDUIT & OUTLETS FOR PRECAST WALL PANELS

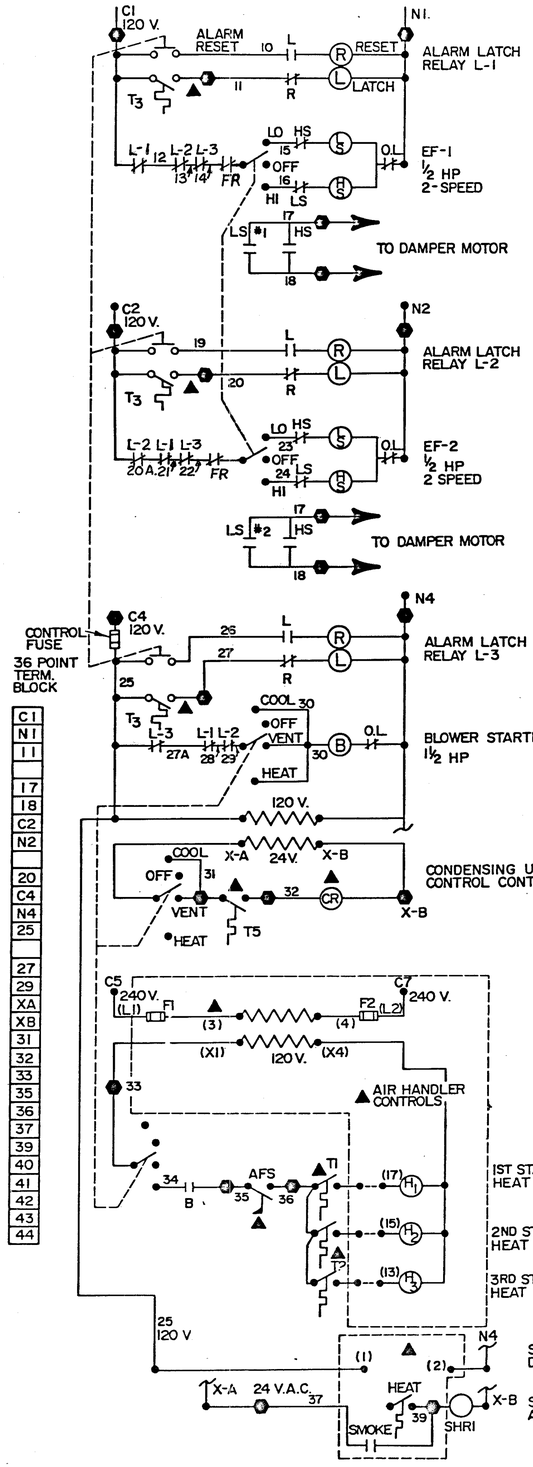
(NOT TO SCALE)

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

REVISIONS		SHEET NO.
8-29-84	MOTORIST SERVICES BUILDING AND STORAGE UNITS	9GG
	ARCHITECTS · WRIGHT / KRITSCHGAU, ASSOCIATES, INC. 3600 TRABUE RD., COLUMBUS, OHIO ENGINEERS · JOHN E. FOSTER & ASSOCIATES, COLUMBUS, OHIO ENERGY TECHNOLOGIES · BATTELLE / COLUMBUS LABORATORIES	DATE

PROJECT I.R.-70-1(37)2	OHIO
PREBLE COUNTY PRE.-70-2.80	FHWA REGION 5

65
68



▲ DEVICES REMOTE FROM HEAT-VENT CONTROL PANEL

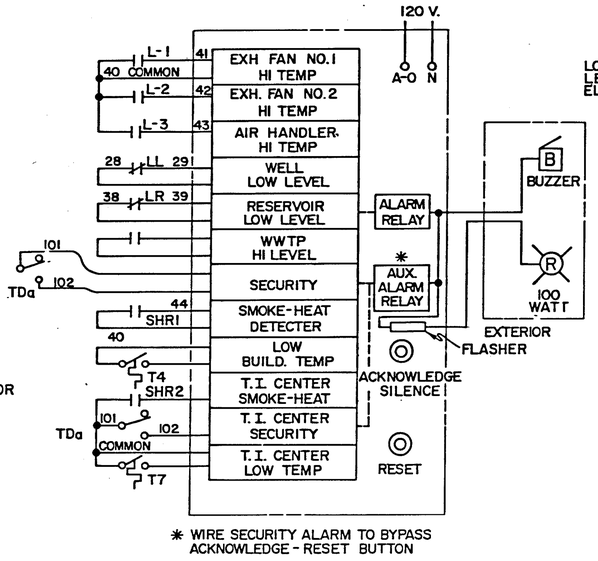
⬢ PANEL TERMINAL BLOCK

( ) EQUIPMENT TERMINAL NUMBERS

HEAT-VENT CONTROL PANEL FURNISHED UNDER ELECTRICAL ITEM

9HH-01
CONTROL DIAGRAM HEAT-VENT CONTROL PANEL

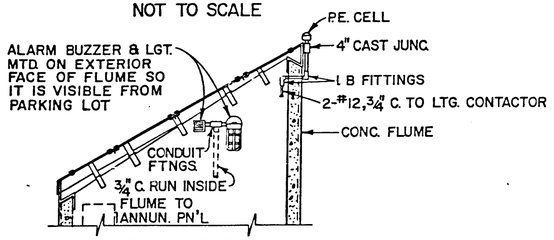
NOT TO SCALE



* WIRE SECURITY ALARM TO BYPASS ACKNOWLEDGE-RESET BUTTON

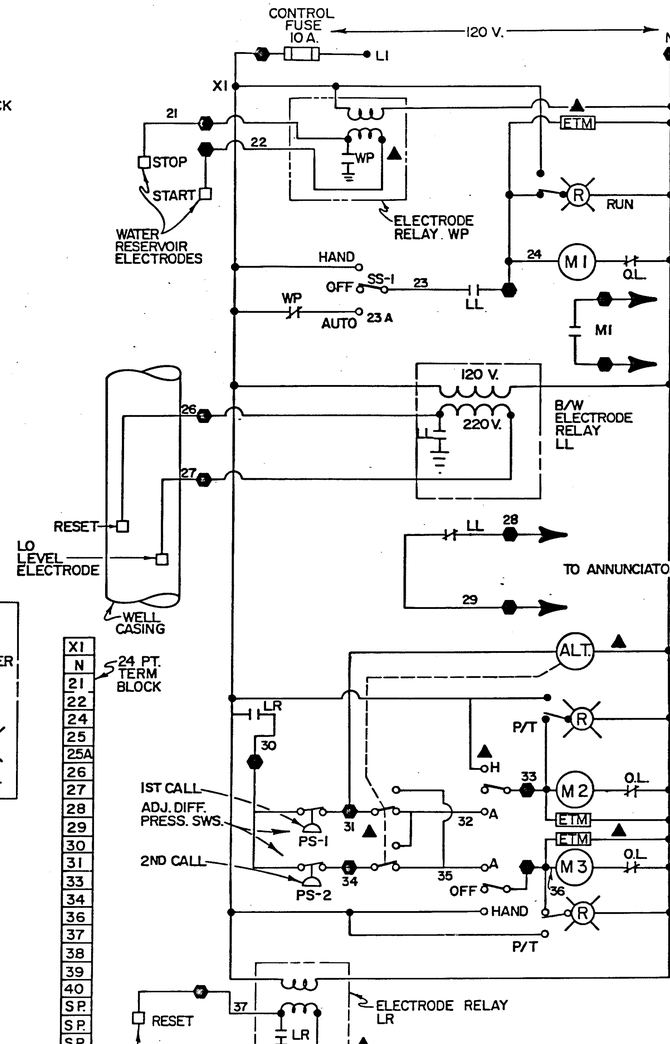
9HH-02
ALARM ANNUNCIATOR PANEL

NOT TO SCALE



9HH-04
FLUME MOUNTED P.E. CELL AND ALARMS

NOT TO SCALE



▲ DEVICES LOCATED IN CONTROL PANEL

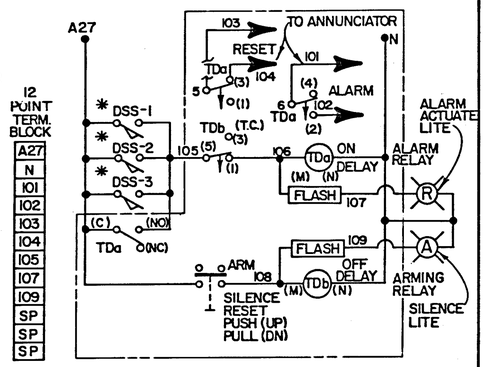
⬢ PANEL TERMINAL BLOCK

9HH-03
WELL RESERVOIR CONTROL PANEL

NOT TO SCALE

ELECTRICAL CONTROL DIAGRAMS

NOT TO SCALE

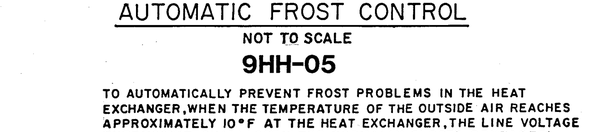


* SECURITY ALARM DOOR SWITCH CONTACTS CLOSE WHEN DOOR OPENS.

LABEL SHALL READ "EXHAUST FANS OFF-O.A.DAMPER CLOSED"

SECURITY PANEL

NOT TO SCALE



HONEYWELL CAT. NO. T631A1029, LINE VOLTAGE SPDT STAT W/ 8'-0" CAPILLARY, -30°F TO 90°F RANGE, 3°F TO 12°F DIFFERENTIAL OR APPROVED EQUAL MANUFACTURES, REFER TO SPECIFICATIONS.

AUTOMATIC FROST CONTROL

NOT TO SCALE

9HH-05

TO AUTOMATICALLY PREVENT FROST PROBLEMS IN THE HEAT EXCHANGER, WHEN THE TEMPERATURE OF THE OUTSIDE AIR REACHES APPROXIMATELY 10°F AT THE HEAT EXCHANGER, THE LINE VOLTAGE THERMOSTAT SHALL OPEN THE NORMALLY CLOSED CONTACTS (N.C.) OF THE RELAY, THEREBY STOPPING THE EXHAUST FANS AND CLOSING THE OUTSIDE AIR DAMPER. THIS SYSTEM CAN BE OVERRIDDEN BY LOWERING THE THERMOSTAT SETTING OR JUMPING ITS CONTACTS. IN THE OPERATING MODE NOTED ABOVE, THE RETURN AIR DAMPER SHALL BE IN THE OPEN POSITION, TO PERMIT ONLY RETURN AIR TO ENTER THE AIR HANDLING UNIT. WHEN THE EXHAUST AIR TEMPERATURE GOES ABOVE THE CUT OFF SET POINT OF THE T_5 THERMOSTAT, IT SHALL CAUSE THE FR RELAY TO CLOSE AND PUT THE HEATING SYSTEM BACK TO ITS ORIGINAL MODE.

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

REVISIONS 1-28-85	MOTORIST SERVICES BUILDING AND STORAGE UNITS	SHEET NO. 9HH
	ARCHITECTS · WRIGHT, KRITSCHGAU, ASSOCIATES, INC. 3600 TRABUE RD., COLUMBUS, OHIO ENGINEERS · JOHN E. FOSTER & ASSOCIATES, COLUMBUS, OHIO ENERGY TECHNOLOGIES · BATTELLE / COLUMBUS LABORATORIES	DATE

HEATING & VENTILATING AND ELECTRICAL SPECIFICATION REVISIONS

1. UNDER SECTION 14, HEATING AND VENTILATING, PAGE I-71, ITEM 2. AIR HANDLING UNIT, PARAGRAPH (c), DELETE THE FOLLOWING: MOTOR SHALL BE 120 VOLT, 1 PHASE, 60 HERTZ. FAN SHALL HAVE AN ADJUSTABLE V-BELT DRIVE WITH AN EXPANDED METAL BELT GUARD WITH TACHOMETER HOLES. PROVIDE ONE SPARE SET OF V-BELTS. FAN SHALL PROVIDE 1750 CFM @ 3.05 IN. W.G.S.P. INSERT THE FOLLOWING: MOTOR SHALL BE 1 1/2 H.P., 2260 RPM; 120 VOLT, 1 PHASE, 60 HERTZ, FAN SHALL HAVE V-BELT DRIVE UNITS WITH VARIABLE SHEAVES FOR +10%, - 10% ADJUSTMENT WITH AN EXPANDED METAL GUARD WITH TACHOMETER HOLES. PROVIDE ONE SPARE SET OF V-BELTS. FAN SHALL PROVIDE 1750 CFM @ 2.50 IN. W.G.S.P.

2. UNDER SECTION 14, HEATING AND VENTILATING, PAGE I-73, ITEM 4. AIR TO AIR HEAT EXCHANGER, PARAGRAPH (a), DELETE ALL OF PARAGRAPH (a) EXCEPT THE LAST FOUR (4) SENTENCES AND INSERT THE FOLLOWING: (a) FURNISH AND INSTALL AS SHOWN ON THE DRAWINGS ONE (1) FIXED PLATE AIR TO AIR HEAT EXCHANGER. THE HEAT TRANSFER SURFACE SHALL BE A CONTINUOUS SHEET OF DIE FORMED AND FOLDED 1100-1 ALUMINUM THAT CREATES SEPARATE AND DISTINCT AIR FLOW PASSAGES PROVIDING MINIMUM AIR RESISTANCE AND MAXIMUM HEAT TRANSFER. THE DIE FORMED SURFACE SHALL HAVE EMBOSSED RIBS AND HAVE RAISED AND DEPRESSED TRUNCATED CONICAL DIMPLES THAT BEAR ON EACH ADJACENT PLATE, THE DIE FORMING SHALL CREATE ADDITIONAL SURFACE AREA, ENSURE HIGH DIFFERENTIAL PRESSURE CAPABILITY WITHOUT PLATE SURFACE COLLAPSE, AND INCREASE HEAT TRANSFER COEFFICIENTS. THE ENDS OF THE HEAT TRANSFER SURFACE SHALL BE MECHANICALLY SEALED. THE MODULE HOUSING SHALL BE CONSTRUCTED OF 18 GAUGE GALVANEAL STEEL WITH INTEGRAL DOUBLE FLANGED DUCT CONNECTIONS. THE CASING MATERIAL SHALL HAVE PROVISIONS FOR 7 IN. HIGH X 24 IN. WIDTH TRANSITION DUCT CONNECTIONS. THE HEAT EXCHANGER SHALL BE CAPABLE OF 1350 SCFM EXHAUST, 1450 SCFM SUPPLY, WITH MAX. 0.92" W.G.S.P. DROP ACROSS EACH SIDE OF THE HEAT EXCHANGER, WITH 55 DEG. F DRY BULB AND 46 DEG. F WET BULB HOT AIRSTREAM AT A MINIMUM EFFECTIVENESS OF 65%. AIR FLOW THROUGH THE HEAT EXCHANGER SHALL BE OF THE COUNTERFLOW CONFIGURATION AND BOTH AIR STREAMS SHALL BE HORIZONTAL IN FLOW. THE HEAT EXCHANGER SIZE SHALL BE 26 IN. WIDE X 20 IN. HIGH X 66 IN. LONG. HEAT EXCHANGER SHALL BE MODEL NO. 79ML-1624 .49/.49 AS MANUFACTURED BY DES CHAMPS LABORATORIES, INC. - Z DUCT. EQUAL HEAT EXCHANGERS AS MANUFACTURED BY UNITED AIR SPECIALISTS, INC. OR APPROVED EQUAL. SHOP DRAWINGS OF SELECTED HEAT EXCHANGER MUST INCLUDE FACTORY THERMODYNAMIC ANALYSIS PRINT READOUTS TO OBTAIN COMPLETE SHOP DRAWING APPROVAL.

3. UNDER SECTION 14 HEATING AND VENTILATING, PAGE I-72, ITEM 2, AIR HANDLING UNIT, PARAGRAPH (g) DELETE TRANE CO. CLIMATE CHANGER MODEL 3A AND INSERT TRANE CO. CLIMATE CHANGER MODEL 3B.

4. UNDER SECTION 14, HEATING AND VENTILATING, PAGE I-76 ITEM 8 EXHAUST FANS (EF-1 AND EF-2), PARAGRAPH (a) DELETE ALL OF PARAGRAPH (a) EXCEPT LAST SENTENCE AND INSERT THE FOLLOWING:

   (a) FURNISH AND INSTALL TWO (2) EXHAUST FANS AS SHOWN ON THE DRAWINGS. FANS SHALL BE MODEL NO. 8D AS MANUFACTURED BY PEERLESS ELECTRIC-PORTER ELECTRICAL DIVISION, H. K. PORTER CO. INC. OR EQUAL FANS MANUFACTURED BY TRANE CO., POWER LINE FANS, OR APPROVED EQUAL. FANS SHALL HAVE V-BELT DRIVE UNITS WITH VARIBLE SHEAVES FOR +15%,-10% ADJUSTMENT, UTILITY SET TYPE WITH FORWARD CURVED WHEEL. PROVIDE BELT GUARD, COMPLETE DRIVE ASSEMBLY AND FAN AS A PACKAGE UNIT. FAN SHALL BE RATED IN ACCORDANCE WITH AMCA STANDARD 210. MOTORS SHALL BE 1/2 H.P., 120 VOLT, 1-PHASE, 60 HERTZ, TWO (2) SPEED TYPE. EACH FAN SHALL PROVIDE 680 CFM @ 2.0 IN. W.G.S.P., 2195 RPM (HI-SPEED) AND 420 CFM @ 0.75 IN. W.G.S.P, (LO-SPEED). PROVIDE ONE SPARE SET OF V-BELTS.

5. UNDER SECTION 15 ELECTRICAL, ITEM 28. SECURITY ALARM SYSTEM, PAGE I-92, PARAGRAPH (d) 1), DELETE AGASTAT MODEL DEL-R-12 OR APPROVED EQUAL. INSERT THE FOLLOWING: AGASTAT TIMING RELAYS 7000 SERIES, MODEL NO. 7012-AKL, OR APPROVED EQUAL. DELETE 10 SECONDS TO 3 1/2 MINUTES AND INSERT 1 TO 300 SECONDS.

6. UNDER SECTION 15 ELECTRICAL, ITEM 28, SECURITY ALARM SYSTEM, PAGE I-92, PARAGRAPH (d) 2), DELETE AGASTAT MODEL DE-R-22. INSERT THE FOLLOWING: AGASTAT TIMING RELAYS 7000 SERIES, MODEL NO. 7022-AK, OR APPROVED EQUAL.

PROJECT	OHIO
I. R. -70 - 1(37)2	
PREBLE COUNTY	FHWA REGION 5
PRE -70-2.80	

G4
G8

911-01
PANEL "A" SCHEDULE

200 AMP 2 POLE 120/240 VOLT 1 PHASE 60 HERTZ 3 WIRE S/N W/ LUGS ONLY

CIRCUIT NO.	BREAKER POLES / AMPS	DESCRIPTION	LOCATION	VOLTS	HP/FLA	WIRE SIZE	CONDUIT SIZE	CONNECTED WATTAGE	REMARKS
1,3	2-50	RAMP-AREA LIGHTS	EXTERIOR	240	41.5	4	2	10,000	CONTROL CONTACTOR
2	1-20	CHLORINE PUMP	RM 104	120	5.8	12	3/4	700	
4,6	2-20	HAND DRYER	RM 102	240	10.0			2,400	GFI C/B
5,7			RM 102		10.0			2,400	
8,10			RM 102		10.0			2,400	
9,11			RM 102		10.0			2,400	
12,14			RM 105		10.0			2,400	
13,15			RM 105		10.0			2,400	
16,18			RM 105		10.0			2,400	
17,19	2-20	HAND DRYER	RM 105	240	10.0			2,400	GFI C/B
20	1-20	CHILLER	RM 103	120	5.3			630	FOR WATER FOUNTAIN
21		RECEPTACLE-WOMEN	RM 102		5.0			600	GFI BREAKER
22		RECEPTACLE-MEN	RM 105		5.0			600	GFI BREAKER
23		RECEPTACLE-MAINT.	RM 104		4.2			500	
24	1-20	RECEPTACLE-LOBBY	RM 101		3.3	12		400	
25	1-30	RECEPTACLE	PEDESTAL		16.6	10		2,000	GFI BREAKER AT RECEPTACLE
26	1-20	RECEPTACLE-MAINT.	RM. 104		6.9	12		830	FOR DOOR OPERATOR
27	1-20	ANNUNCIATOR	RM. 104	120		12	3/4		
28	1-30	RECEPTACLE-LOBBY	RM. 101	120	16.6	12	3/4	2,000	GFI BREAKER
29	1-20	SPARE	—		—	—	—	—	
30			—		—	—	—	—	
31			—		—	—	—	—	
32	1-20		—		—	—	—	—	
33,35	2-20		—		—	—	—	—	
34,36	2-20	SPARE	—		—	—	—	—	
37-42	1-20	SPARE	—	120	—	—	—	—	

TOTAL CONNECTED WATTS 37,460

911-02
PANEL "B" SCHEDULE

100 AMP 2 POLE 120/240 VOLT 1 PHASE 60 HERTZ 3 WIRE S/N W/LUGS ONLY

CIRCUIT NO.	BREAKER POLES/AMPS	DESCRIPTION	LOCATION	VOLTS	HP/FLA	WIRE SIZE	CONDUIT SIZE	CONNECTED WATTAGE	REMARKS
1	1-20	GROUND LIGHTS	EXTERIOR	120	10.0	12	3/4	1,200	P.E. CONTROLLED
2		LIGHTS - LOBBY	RM 101		7.5		3/4	900	P.E. CONTROLLED
3		SOFFIT & ROOF	EXTERIOR		10.0		3/4	1,200	P.E. CONTROLLED
4		LIGHTS - LOBBY	RM 101		7.5		3/4	900	
5		LIGHTS - WOMEN	RM 102		5.0		3/4	600	
6		LIGHTS WOMEN	RM 102		4.2			500	
7		LIGHTS - MEN	RM 105		4.2			500	
8		LIGHTS - MEN	RM 105		5.0			600	
9		LIGHTS - MECHANICAL	RM 103-6		3.3			400	
10		LIGHTS - MAINT.	RM 104		2.5			300	
11		LIGHTS	FLAG		10.0			1,200	P.E. CONTROLLED
12		EXIT LIGHTS	RM.101, 102, & 105		2.5	12	3/4	300	
13		LIGHTS	FIXTURE K		3.3	12	3/4	400	P.E. CONTROLLED
14		GROUND LIGHTS	EXTERIOR		10.0	12	3/4	1,200	P.E. CONTROLLED
15		SPARE	—		—		—	—	
16	1-20	SPARE	—	120	—		—	—	
17-20	1-20	SPARE	—	120	—		—	—	

TOTAL CONNECTED WATTS 10,200

911-03
PANEL "C" HVAC SCHEDULE

200 AMP 2 POLE 120/240 VOLT 1 PHASE 60 HERTZ 3 WIRE S/N W/ MAIN LUGS

CIRCUIT NO.	BREAKER POLES/AMPS	DESCRIPTION	LOCATION	VOLTS	HP/FLA	WIRE SIZE	CONDUIT SIZE	CONNECTED WATTAGE	REMARKS
		BLANK							
C1	1-20	EXHAUST FAN	RM 103	120	9.4	12	3/4	1,130	
C2	1-20	EXHAUST FAN	RM 106	120	9.4	12	3/4	1,130	
C3	1-20	DAMPER MOTOR	RM 104	120	2.1	12	3/4	60	
C4	1-30	UNIT BLOWER	RM 104	120	19.2	10	3/4	2,300	
C5,7	2-150	ELECTRIC HEAT	RM 104	240	109.0	1/0	1 1/2	26,000	
C6,8	2-40	CONDENSER	EXTERIOR	240	30.0	8	1	6,900	
C9,11	2-30	SPARE	—	240	—	—	—	—	
C10,12	2-20	SPARE	—	240	—	—	—	—	
C13-16	1-20	SPARE	—	120	—	—	—	—	

TOTAL CONNECTED WATTS 37,520

911-04
PANEL "AA" SCHEDULE
Tourist Info Center Only (EASTBOUND)

100 AMP 2 POLE 120/240 VOLT 1 PHASE 60 HERTZ 3 WIRE S/N W/LUGS ONLY

CIRCUIT NO.	BREAKER POLES/AMPS	DESCRIPTION	LOCATION	VOLTS	HP/FLA	WIRE SIZE	CONDUIT SIZE	CONNECTED WATTAGE	REMARKS
1	1-20	LIGHTS-COUNTER	RM 107	120	7.5	12	3/4	900	
2		RECEPTACLES	RM 107 & 9		3.3			400	
3		LIGHTS	RM 108 & 9		4.2			500	ALSO RM. 107A
4		RECPT.- WORK ROOM	RM 109		3.3			400	ALSO RM. 107A & 108
5		RECPT.- WORK ROOM	RM 109		2.5			300	
6		RECPT.- WORK ROOM	RM 109		2.5			300	
7	1-20	RECPT.- MECHANICAL	RM 108	120	2.5	12	3/4	300	ALSO RM. 107
8,10	2-50	ELECTRIC HEAT	RM 108	240	34.1	6	1	8,200	
9,11	2-20	CONDENSING UNIT	RM 108	240	15.5	12	3/4	3,600	
12	1-20	SPARE	—	120	—	—	—	—	
13			—		—	—	—	—	
14			—		—	—	—	—	
15			—		—	—	—	—	
16	1-20	SPARE	—	120	—	—	—	—	

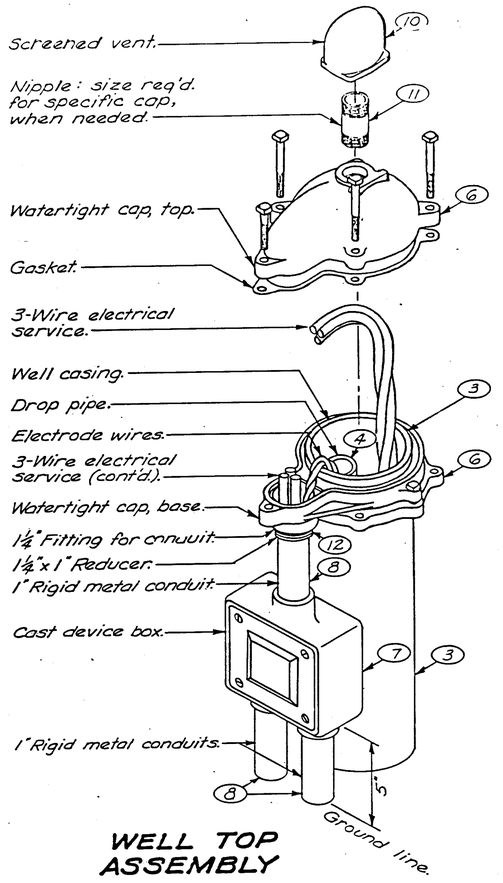
TOTAL CONNECTED WATTS 14,900

NOTE:
FURNISH BREAKERS FOR ALL SPARES.

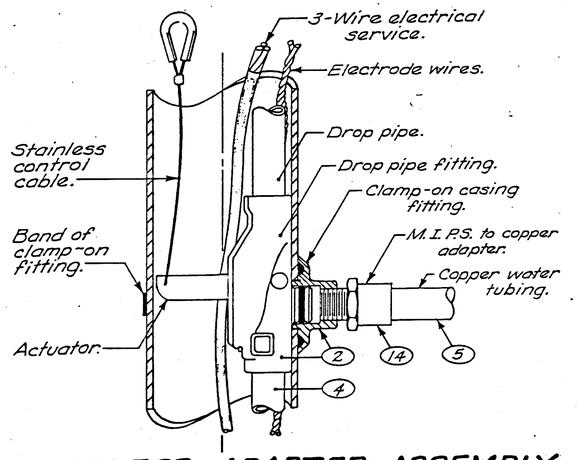
ELECTRIC PANEL SCHEDULES
NOT TO SCALE

OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

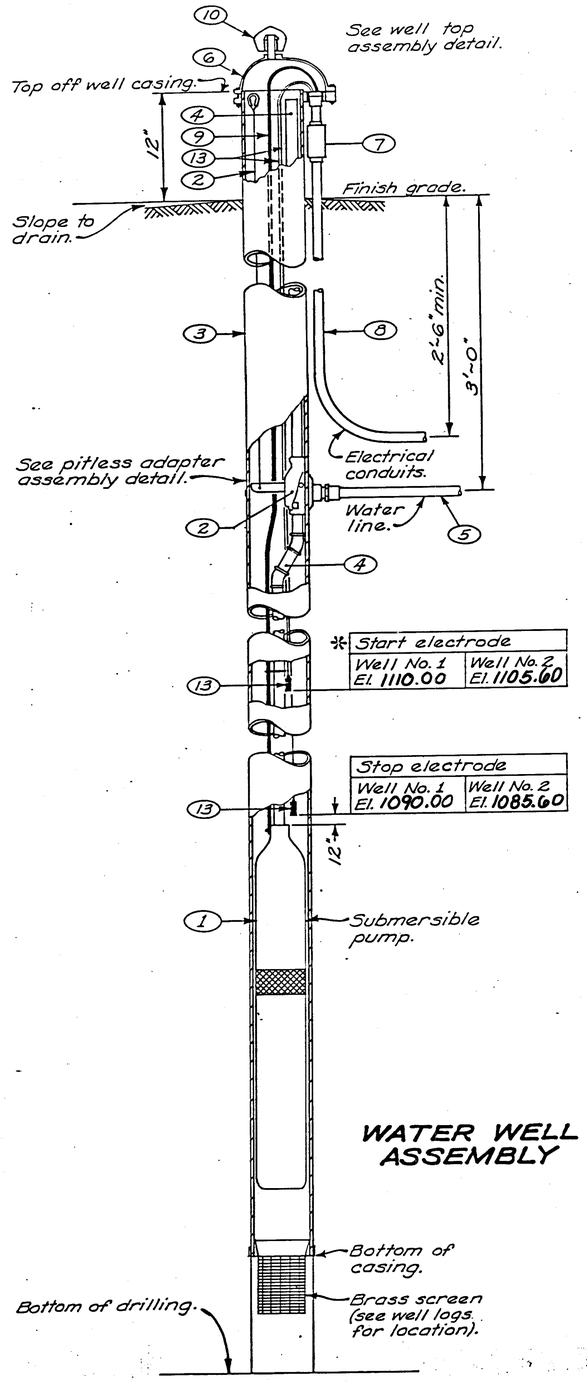
REVISIONS		SHEET NO.
9-14-84	MOTORIST SERVICES BUILDING AND STORAGE UNITS	911
	ARCHITECTS · WRIGHT ✓ KRITSCHGAU, ASSOCIATES, INC. 3600 TRABUE RD., COLUMBUS, OHIO ENGINEERS · JOHN E. FOSTER & ASSOCIATES, COLUMBUS, OHIO ENERGY TECHNOLOGIES · BATTELLE / COLUMBUS LABORATORIES	DATE



WELL TOP ASSEMBLY



PITLESS ADAPTER ASSEMBLY



WATER WELL ASSEMBLY

WELL LOGS

WELL No. 1

West bound Rest Area No. 39.
Sta. 54 +76.00, 109 ft. Lt. of ℄ Rte. 70.
Field rate 30 GPM., by bail (X)/pump ( )
Casing length 134 ft.
Strata at full depth Grey Gravel w/Sand
Recommended sieve size .50 Slot

Item		Elevation	Depth in feet below original grade
Top of casing		1213.50	
Original grade		—	
Finish grade		1212.50	
Static water level ✲		1145.50	67'-0"
Drawdown			55.5'
Bottom of casing		1079.50	
Brass screen	Top	1079.50	
	Bottom	1075.50	
Total drilled depth		1074.50	138'

WELL No. 2

East bound Rest Area No. 40.
Sta. 52 +64.00, 123 ft. Rt. of ℄ Rte. 70.
Field rate 20 GPM., by bail (X)/pump ( )
Casing length 141.4 ft.
Strata at full depth Grey Sand
Recommended sieve size .20 Slot

Item		Elevation	Depth in feet below original grade
Top of casing		1215.50	
Original grade		—	
Finish grade		1214.50	
Static water level ✲		1149.50	65'
Drawdown			63.9'
Bottom of casing		1074.10	
Brass screen	Top	1074.10	
	Bottom	1070.10	
Total drilled depth		1064.50	150'

✲ If actual static water level is not as indicated, the start electrodes are to be set 5'-0" below measured level.

NOTES

1. SUBMERSIBLE PUMP SHALL BE TAIT MFG. CO. MODEL NO. 7ST315-F OR APPROVED EQUAL BY CRANE CO, DEMING DIVISION; F.E. MYERS OR RAPIDAYTON. PUMP SHALL BE 3/4 H.P., 230 VOLTS, SINGLE PHASE, 60 HZ., AND HAVE A 3-WIRE MOTOR. EACH WELL PUMP INSTALLATION SHALL BE EQUIPPED WITH A LIGHTNING ARRESTOR, SUCH AS F.E. MYERS CO., NO. 12149 A10; GENERAL ELECTRIC CO., NO. 9L15BCC003 OR APPROVED EQUAL. CONNECT GROUND TO WELL CASING.

   WELL PUMPS NOT HAVING A CAPACITOR (3/4 H.P. & LARGER MOTOR) SHALL BE PROVIDED WITH A MAGNETIC ACROSS-THE-LINE STARTER AND SHALL BE INCLUDED IN THE CIRCUITRY OF THE WIRING DIAGRAM.

2. PITLESS ADAPTER ASSEMBLY WITH CLAMP-ON DISCHARGE FITTING BY BAKER MFG. CO., MONITOR DIVISION, NO. 5PL-6-1-U-C4 (FOR 1" DROP PIPE) OR NO. 5PL-6-1.2-U-C4 (FOR 1-1/4" DROP PIPE); OR APPROVED EQUAL BY DICKEN MFG. CO.; DUPLEX MFG. CO. OR WILLIAMS PRODUCT CO.

3. SIX INCH I.D. (6-5/8" O.D.) WELL CASING, ASTM A 53, GRADE B, STANDARD WEIGHT, SCHEDULE 40, GALVANIZED SEAMLESS STEEL PIPE AS PER 707.11.

4. 1¼" INCH I.D. DROP PIPE, ASTM A 53, GRADE B, STANDARD WEIGHT, SCHEDULE 40, GALVANIZED SEAMLESS STEEL PIPE AS PER 707.11.

5. 2½" INCH (NOMINAL SIZE) TYPE "K" HARD DRAWN COPPER WATER TUBING PRESSURE LINE CONFORMING TO ASTM B 88. RUN IN 20 FOOT LENGTHS TO HYPO-CHLORINATOR IN BUILDING, THEN EXTEND TO RESERVIOR TANK IN LIKE MANNER. (SEE DRAWINGS RRA-8 AND RRA-9).

6. WATER-TIGHT CAP FOR 6" WELL CASING BY BAKER MFG. CO., MONITOR DIVISION NO. 6W; OR APPROVED EQUAL BY DICKEN MFG. CO.; DUPLEX MFG. CO. OR WILLIAMS PRODUCT CO.

7. CAST DEVICE BOX WITH FULL-FACE NEOPRENE GASKET AND BLANK COVER BY APPLETON ELECTRIC CO., NO. FDCC-1-100; OR APPROVED EQUAL BY KILLARK ELECTRIC MFG. CO., CROUSE-HINES CO., KONDU CORP. OR ADALET MFG. CO.

8. ONE INCH DIAMETER RIGID FERROUS METAL ELECTRICAL CONDUITS PER 713.04.

9. THREE-WIRE ELECTRICAL SERVICE.

10. SCREENED WELL VENT TO MATCH CAP CHOSEN FROM NOTE 6 ABOVE.

11. NIPPLE, ASTM A 53, GRADE B, STANDARD WEIGHT, SCHEDULE 40, GALVANIZED SEAMLESS STEEL PIPE AS PER 707.11; IF REQUIRED FOR SPECIFIC CAP USED.

12. REDUCER (OF SIZE REQ'D.), IF NEEDED FOR FERROUS METAL ELECTRICAL CONDUITS AS PER 713.04.

13. ELECTRODES SHALL BE B/W CONTROLLER CORP., TYPE E-1P-SHIELDED, OR APPROVED EQUAL.

14. CAST BRASS MALE IRON PIPE SIZE TO COPPER ADAPTER AS PER ASTM B 16.18.

BUREAU OF DESIGN SERVICES
DIVISION OF HIGHWAYS
OHIO DEPARTMENT OF TRANSPORTATION

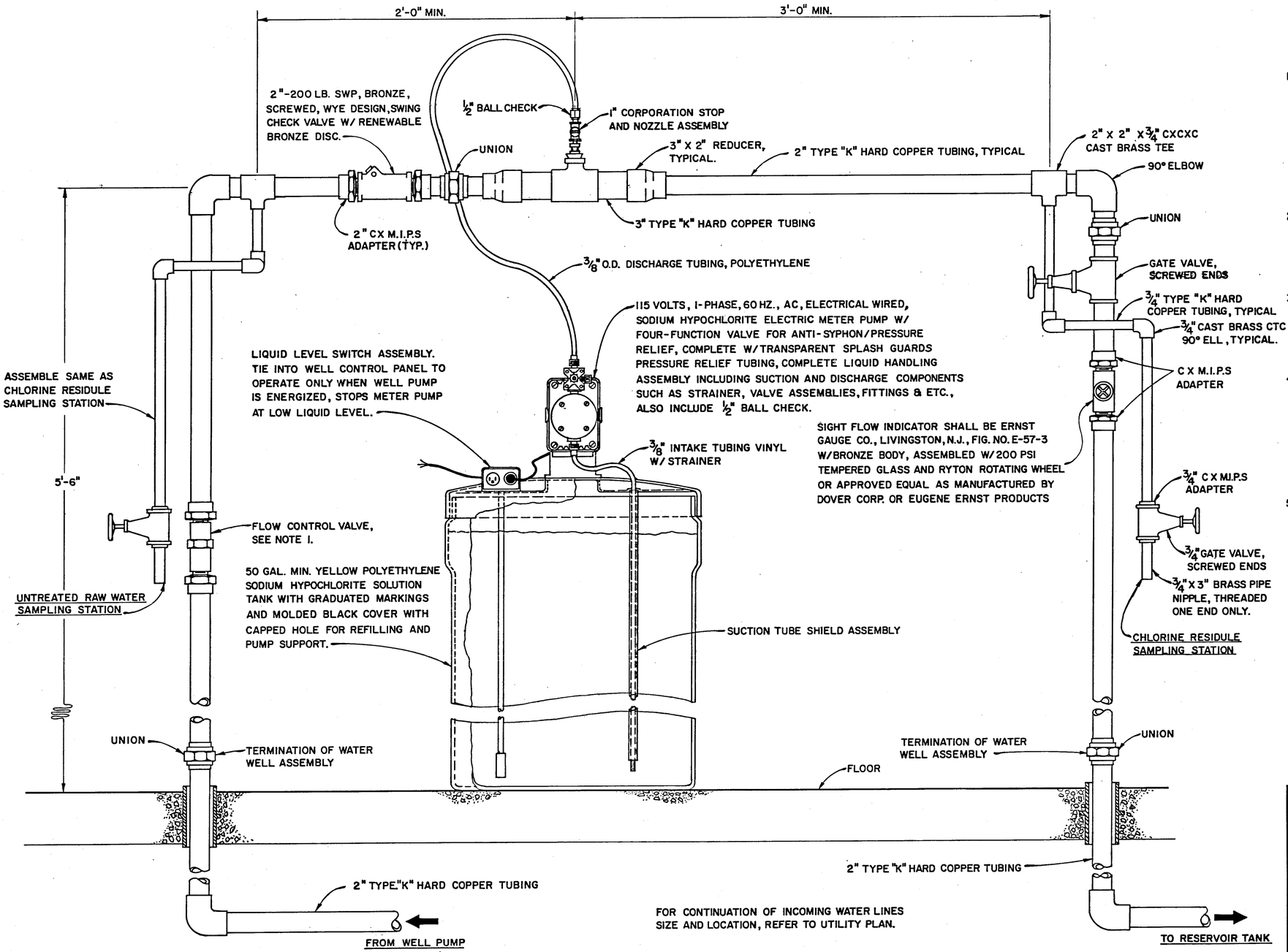
DATE 9/2/82

WATER WELL ASSEMBLY

RRA-7

APPROVED E. J. Schaefer Engr. of Design Services

	PRE-70-2.80 PREBLE COUNTY	OHIO FHWA REGION 5	66 68



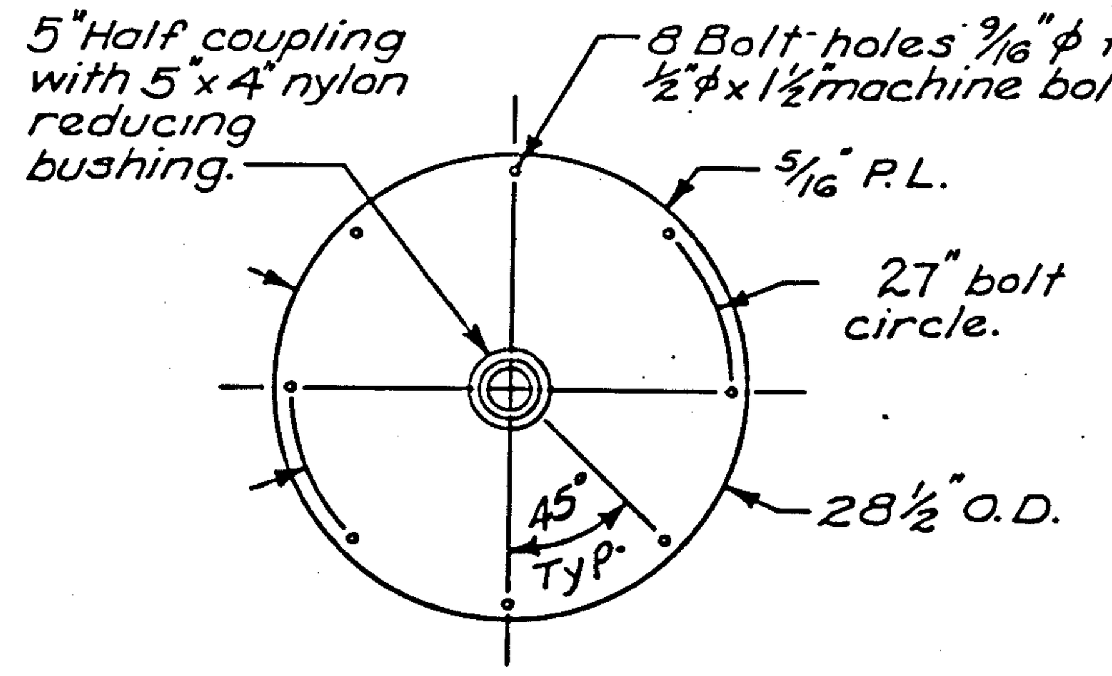
NOTES

1. East BOUND REST AREA - INSTALL A DOLE VALVE CO. FLOW CONTROL VALVE NO. 256X WITH 25 G.P.M. FLOW, 1" F.N.P.T. INLET AND OUTLET, FOR GENERAL USE, NICKEL PLATED.
   West BOUND REST AREA - INSTALL A DOLE VALVE CO. FLOW CONTROL VALVE NO. 156X WITH 15 G.P.M. FLOW, 1" F.N.P.T., FOR GENERAL USE, NICKEL PLATE.
   APPROVED EQUAL SHALL BE AS MANUFACTURED BY GRISWOLD CONTROLS OR AN APPROVED EQUAL.
2. ONLY 5¼% OR 15% UNDILUTED LIQUID, SODIUM HYPOCHLORITE SOLUTION SHALL BE USED IN THIS SYSTEM. THE SYSTEM MUST BE MAINTAINED AT A MINIMUM OF ⅓ FULL OR COMPLETLY FILLED (17 TO 50 GALLONS) TO FUNCTION PROPERLY.
3. THE PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL 50 GALLONS OF UNDILUTED SODIUM HYPOCHLORITE SOLUTION AND REGULATE METER AND TEST FOR REQUIRED CHLORINE RESIDULE PER ENGINEERS APPROVAL.
4. THE SODIUM HYPOCHLORITE CHLORINATOR SYSTEM IS BASED ON ALL EQUIPMENT AND APPURTENANCES AS SPECIFIED AND/OR SHOWN ON PLANS, AS MANUFACTURED BY LIQUID METRONIC INCORPORATED. LIKE EQUIPMENT AND APPURTENANCES AS MANUFACTURED BY HVC COMPANY OF CINCINNATI (PROMINENT PUMP UNIT) OR APPROVED EQUAL MAY BE SUBMITTED, SUBJECT TO TO ENGINEERS APPROVAL.
5. M.I.P.S. X C. ADAPTER SHALL BE ADJACENT TO ALL VALVES, UNIONS AND SPECIAL DEVICES.

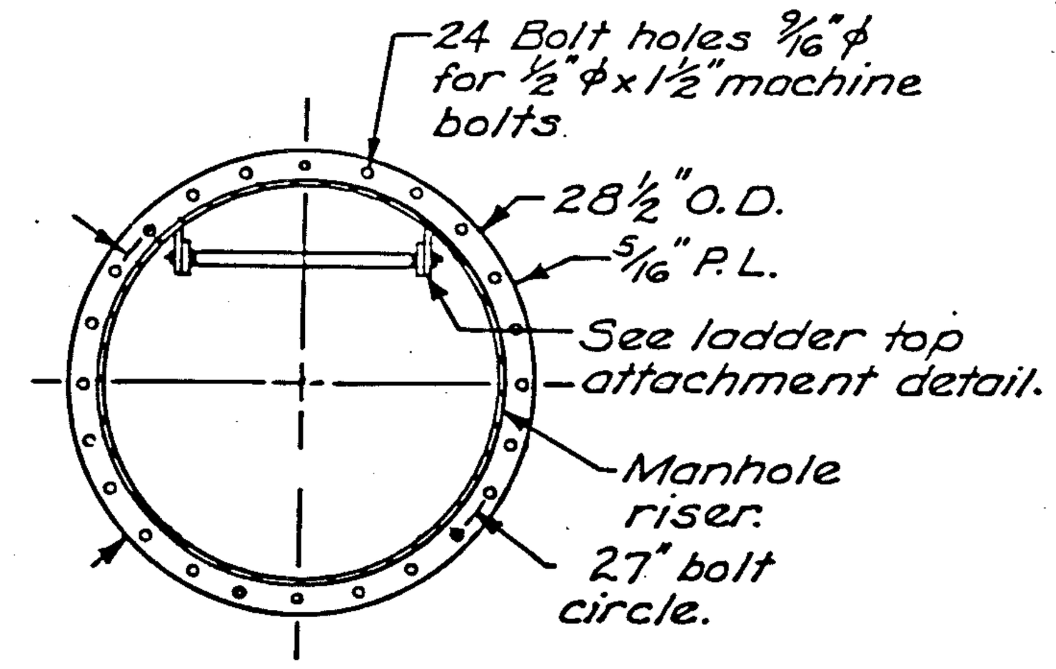
BUREAU OF DESIGN SERVICES
DIVISION OF HIGHWAYS
OHIO DEPARTMENT OF TRANSPORTATION

ROADWAY DEVELOPMENT	DATE 8-14-84
WATER SYSTEM HYPOCHLORINATOR	
RRA-8	

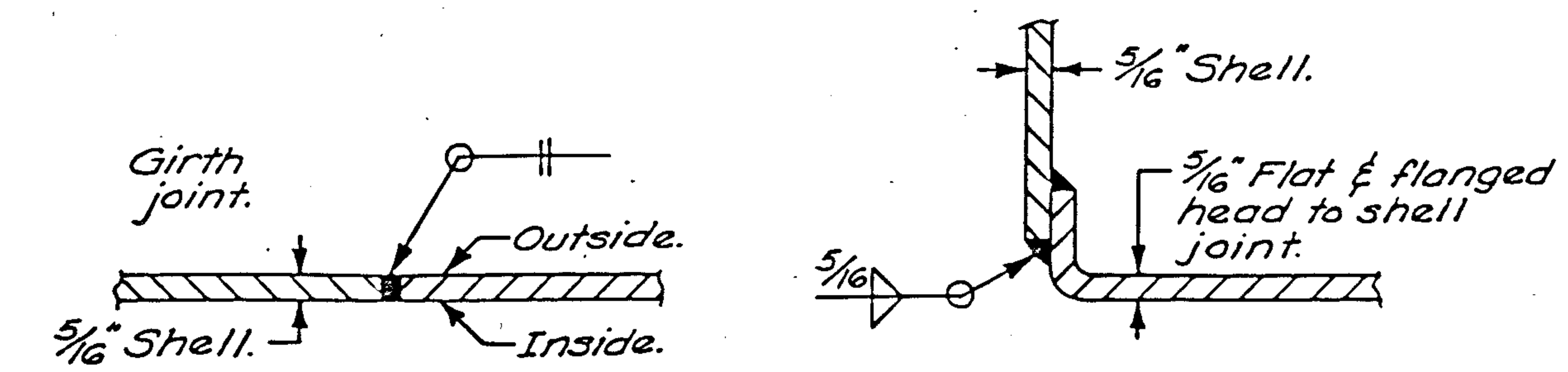
APPROVED R. H. Anderson Engr. of Design Services



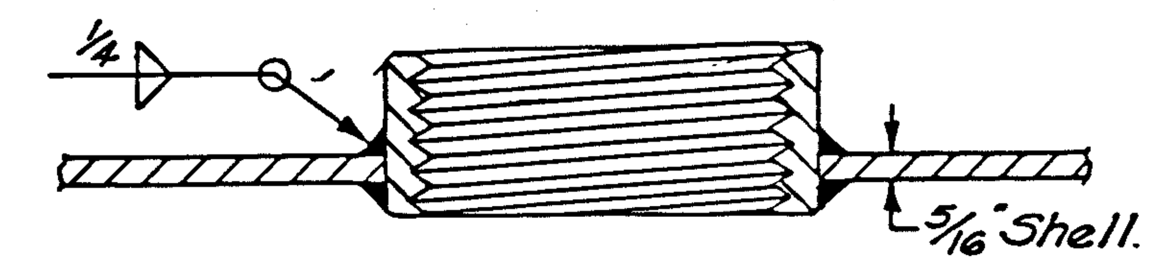
MANHOLE COVER



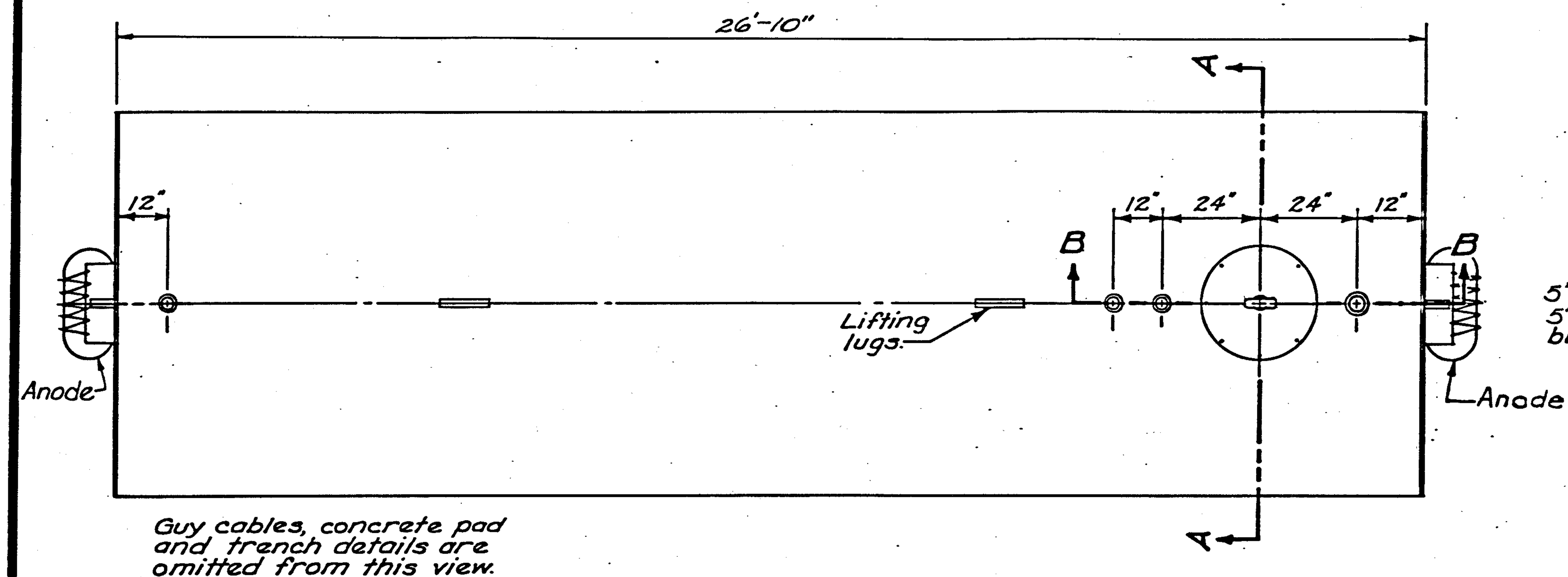
MANHOLE NECK RING



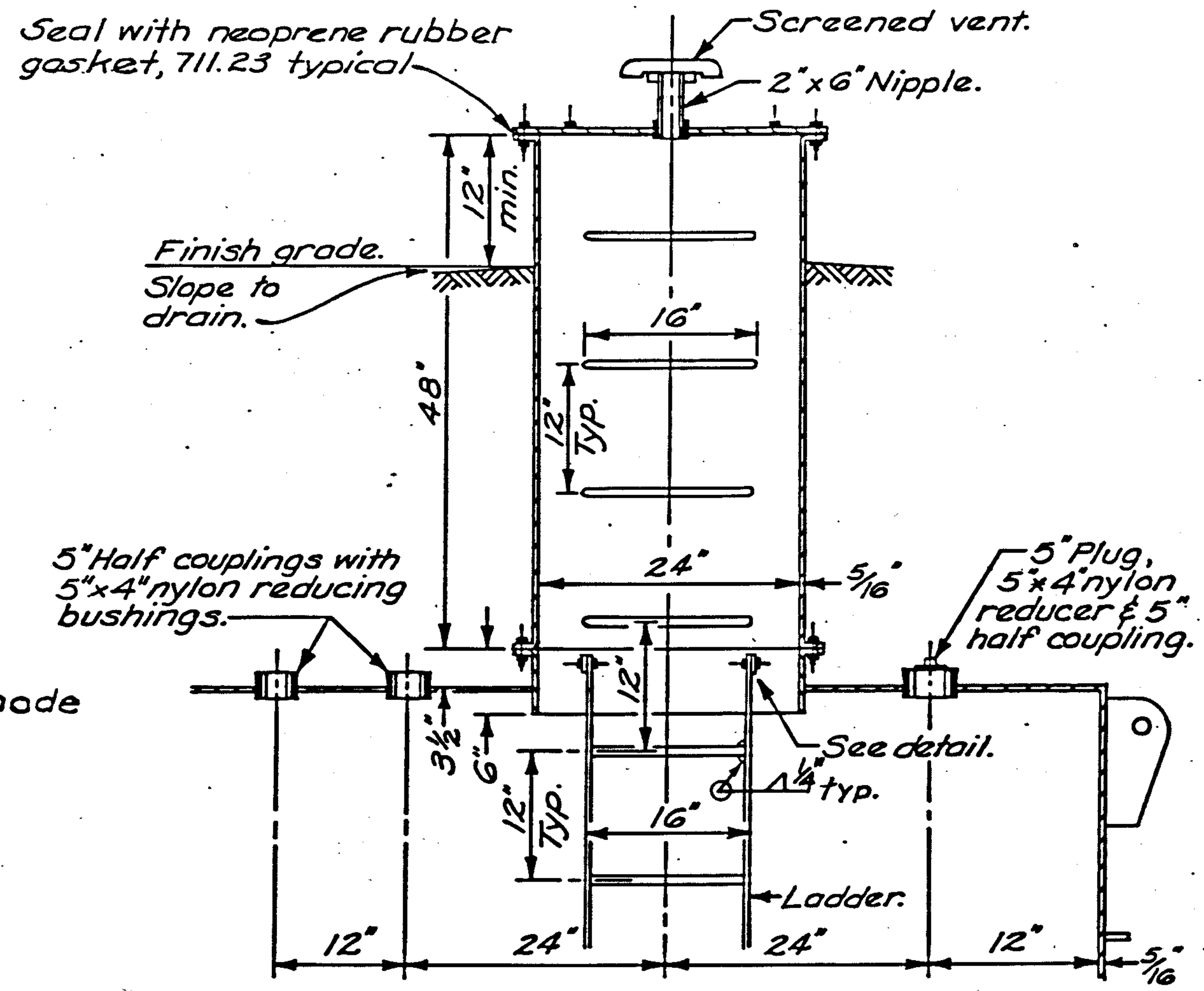
HORIZONTAL OR VERTICAL TANK WELDS



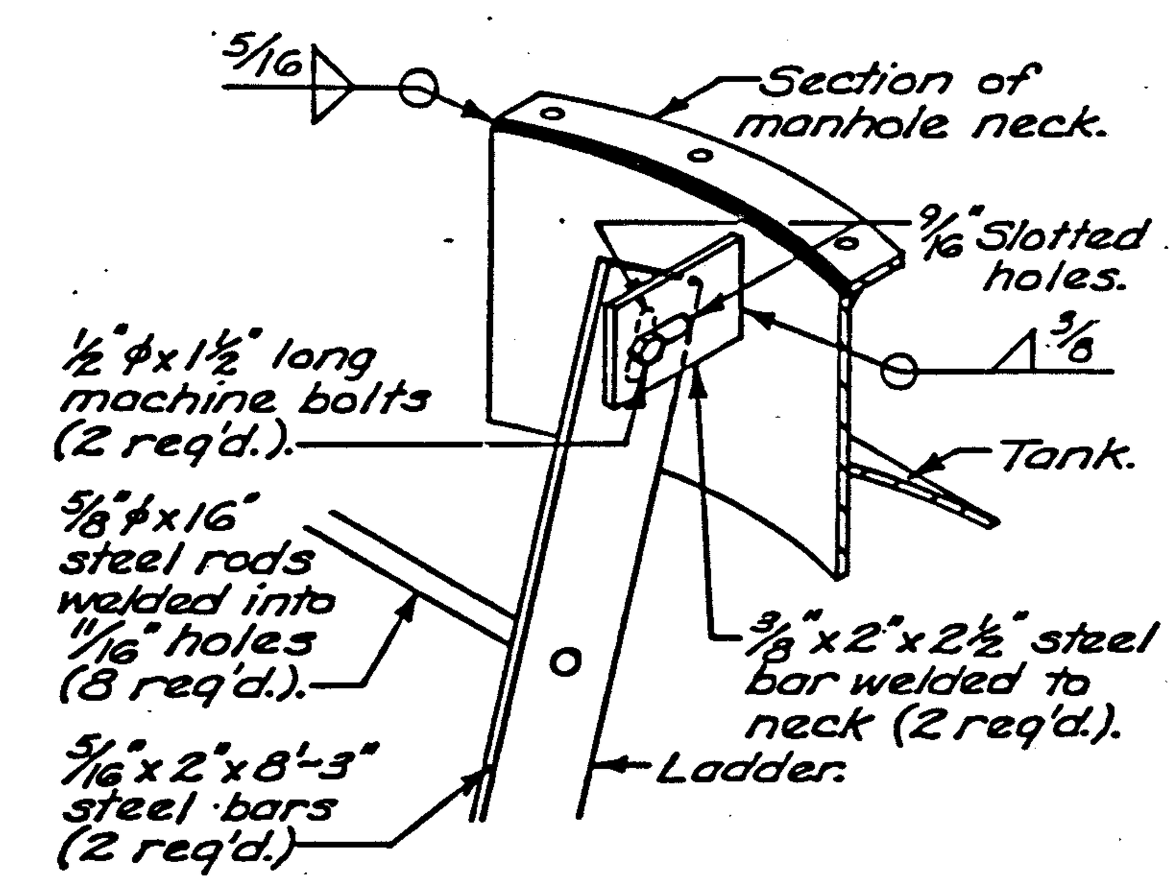
HALF COUPLING WELD



TANK PLAN VIEW



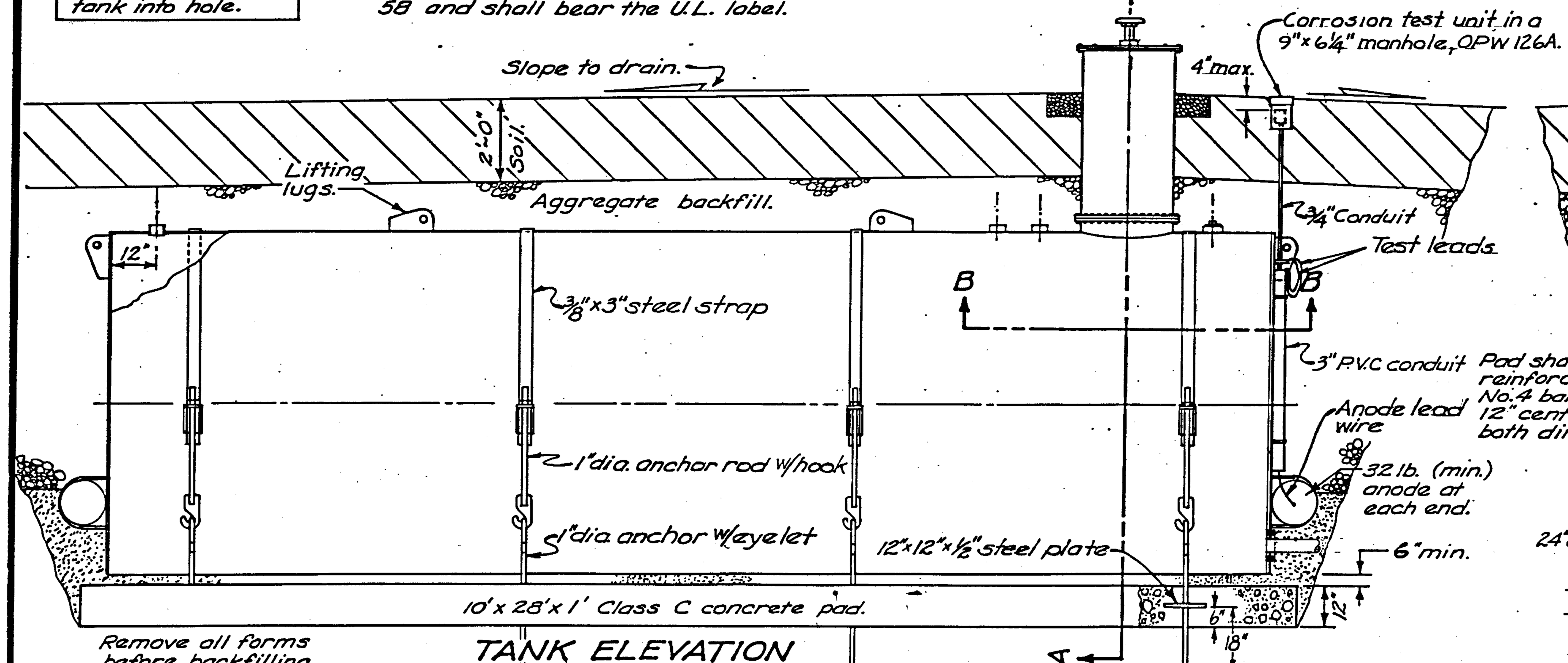
PARTIAL SECTION B-B
(Along tank ℄)



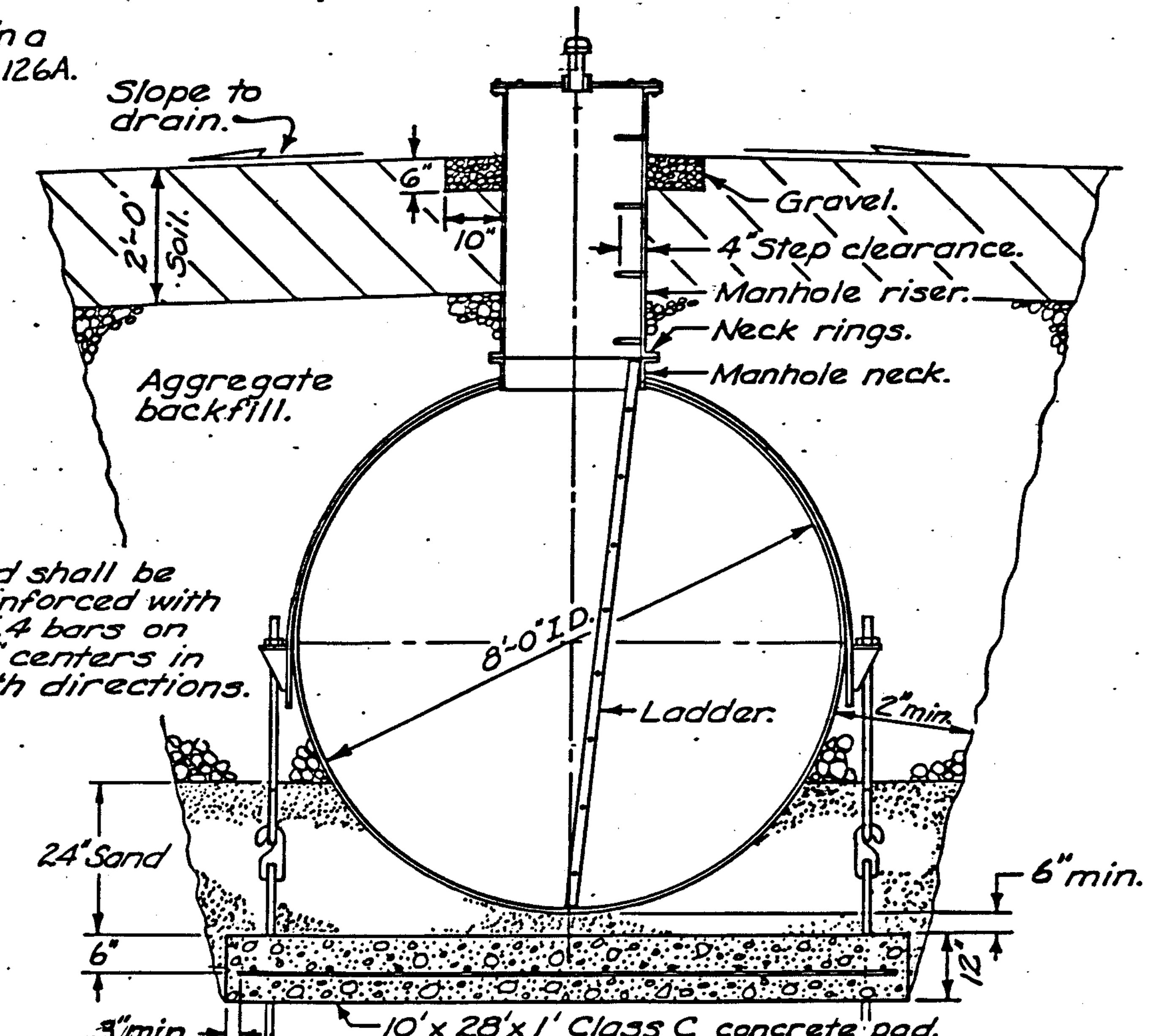
LADDER TOP ATTACHMENT

Do not drop or roll tank into hole.

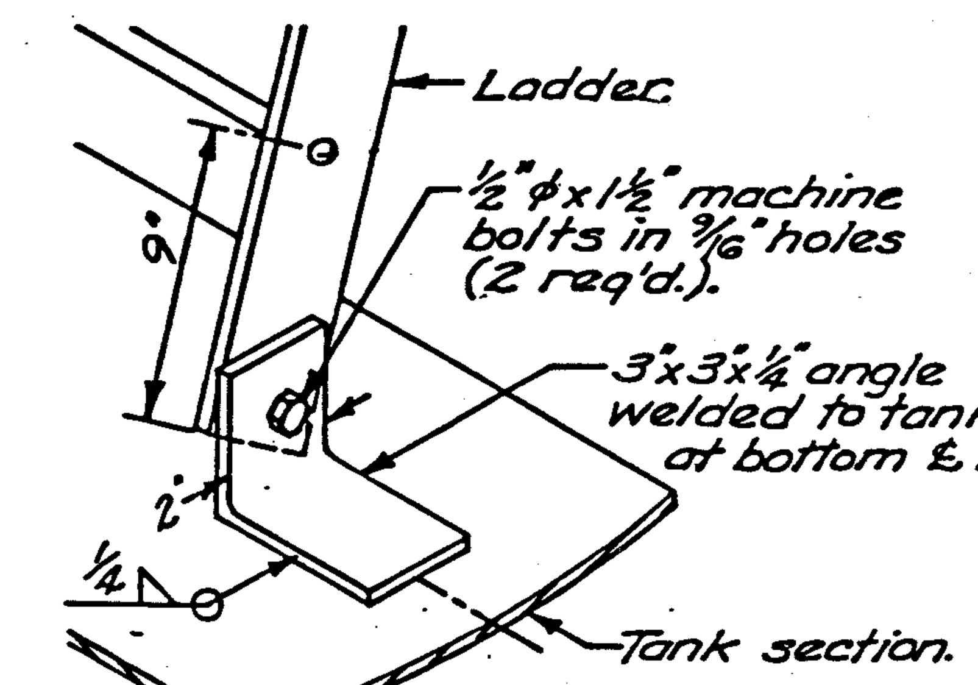
Tank shall be fabricated in conformance with Underwriters' Laboratories Standard 58 and shall bear the U.L. label.



TANK ELEVATION



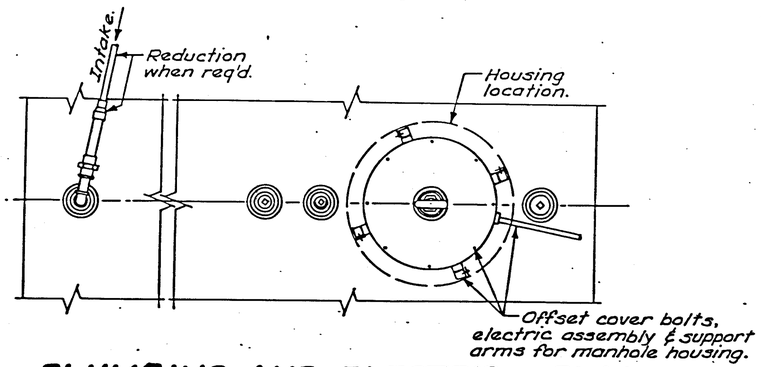
SECTION A-A



LADDER BASE ATTACHMENT

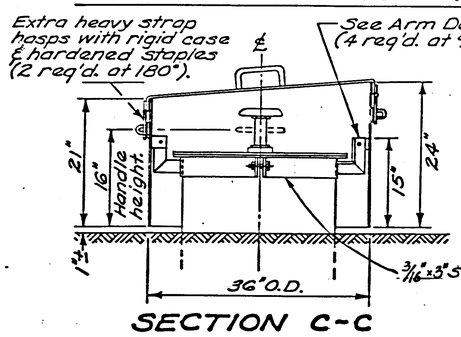
BUREAU OF DESIGN SERVICES
DIVISION OF HIGHWAYS
OHIO DEPARTMENT OF TRANSPORTATION

	DATE
WATER RESERVOIR TANK	9/2/82
RRA-9	
APPROVED [illegible] Engr. of Design Services	

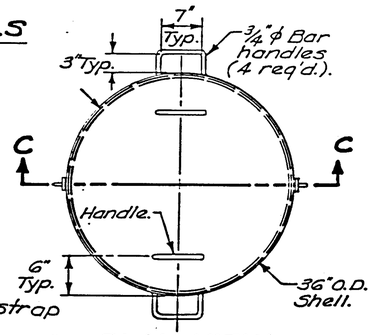


PLUMBING AND ELECTRIC ~ PLAN

MANHOLE HOUSING DETAILS



SECTION C-C



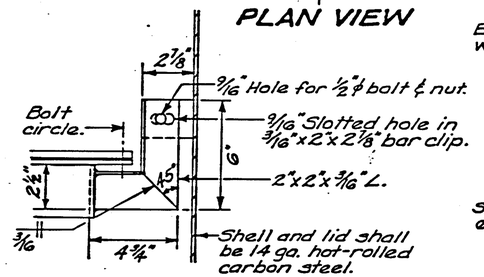
PLAN VIEW

WELDS: Arms, bar clips, handles, hasps and staples shall be fillet welded all around.

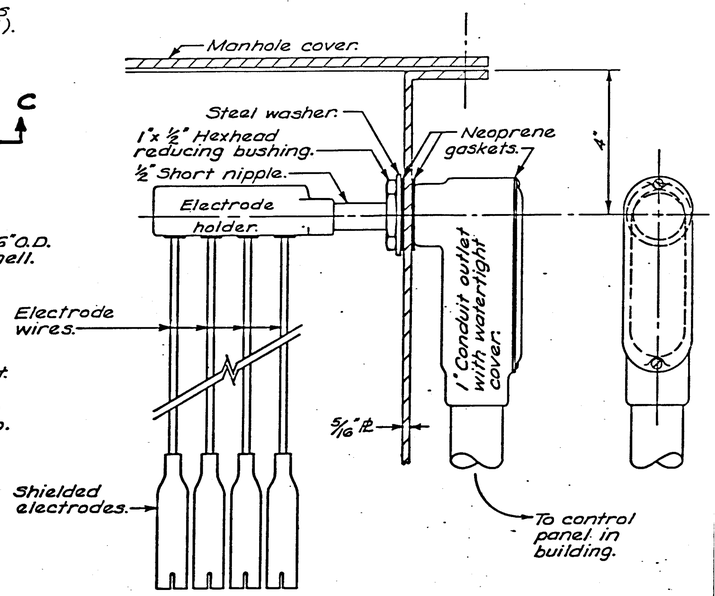
Shell and lid shall be coated inside and outside with red oxide primer (708.19) and green finish paint (708.09).

Arms shall be covered by the same outside coating required on the tank, manhole and manhole cover.

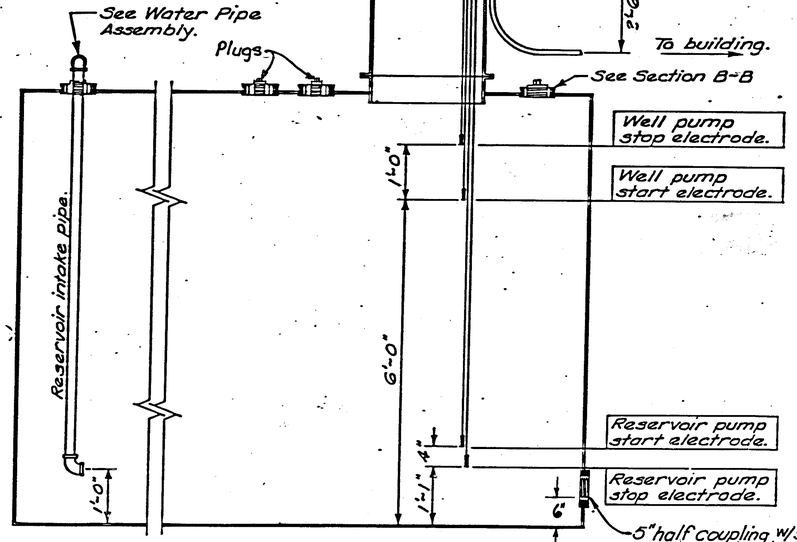
Two padlocks equal to Master No. 4BKA or Wilson Bohannon 660 and meeting the corrosion and keying requirements of 631.08 shall be furnished with each housing.



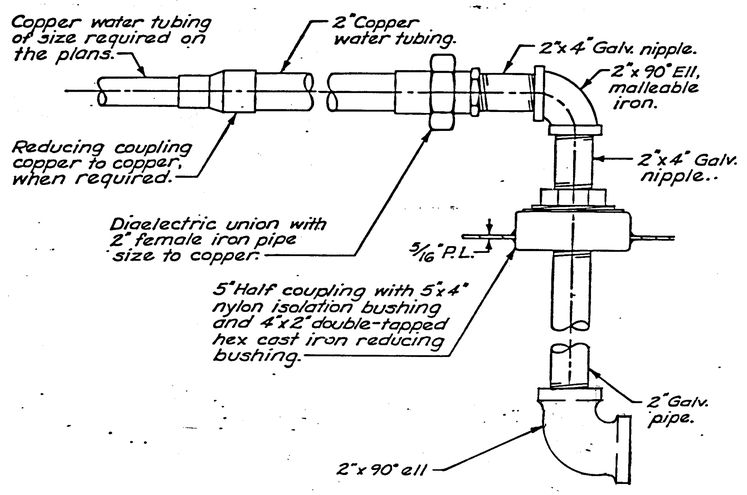
ARM DETAIL



ELECTRICAL ASSEMBLY



PLUMBING AND ELECTRIC ~ SECTION



WATER PIPE ASSEMBLY

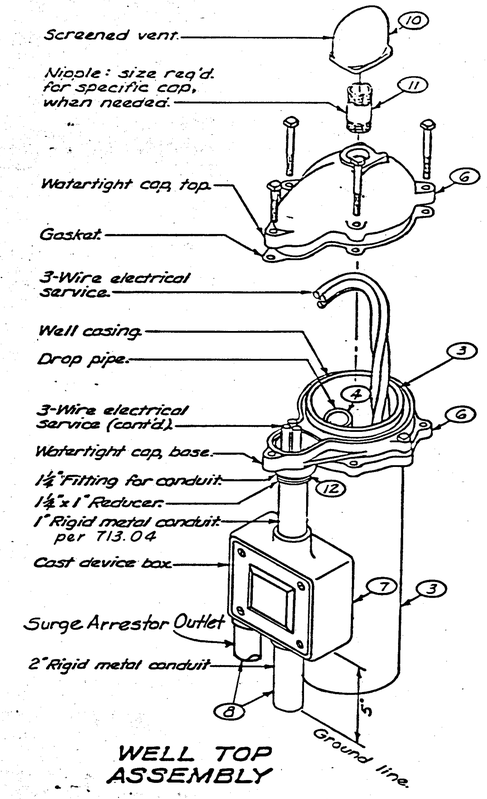
BUREAU OF DESIGN SERVICES
DIVISION OF HIGHWAYS
OHIO DEPARTMENT OF TRANSPORTATION

DATE 9/2/82

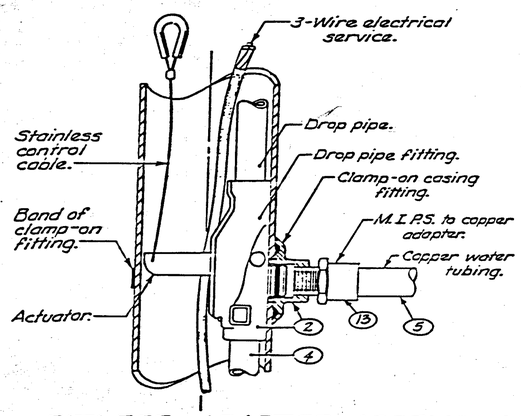
WATER RESERVOIR TANK

RRA-9A

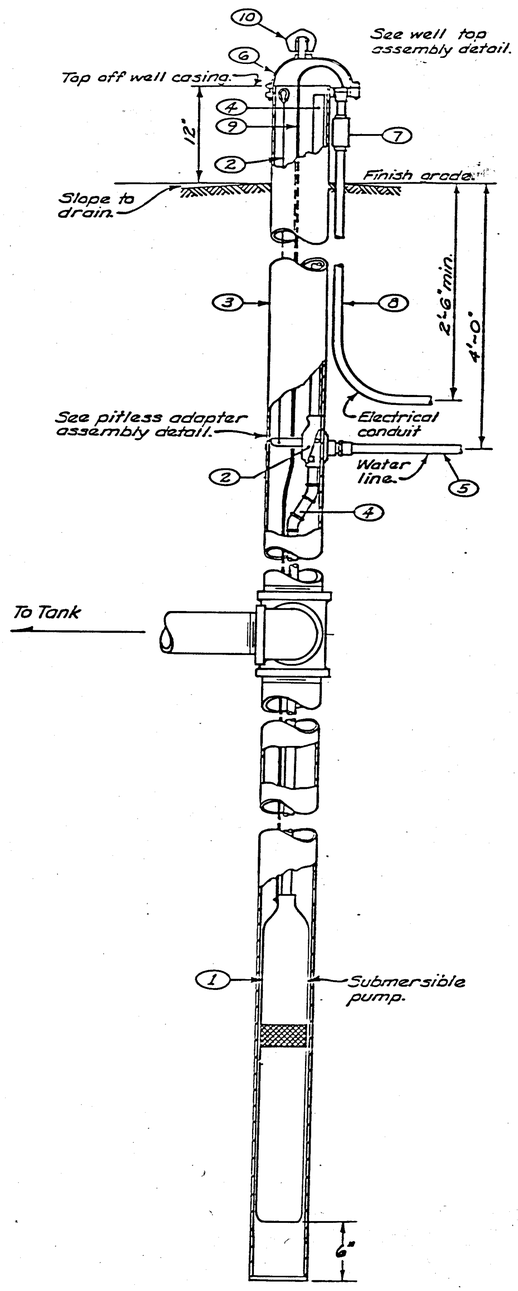
APPROVED E. A. Ashcraft Engr. of Design Services

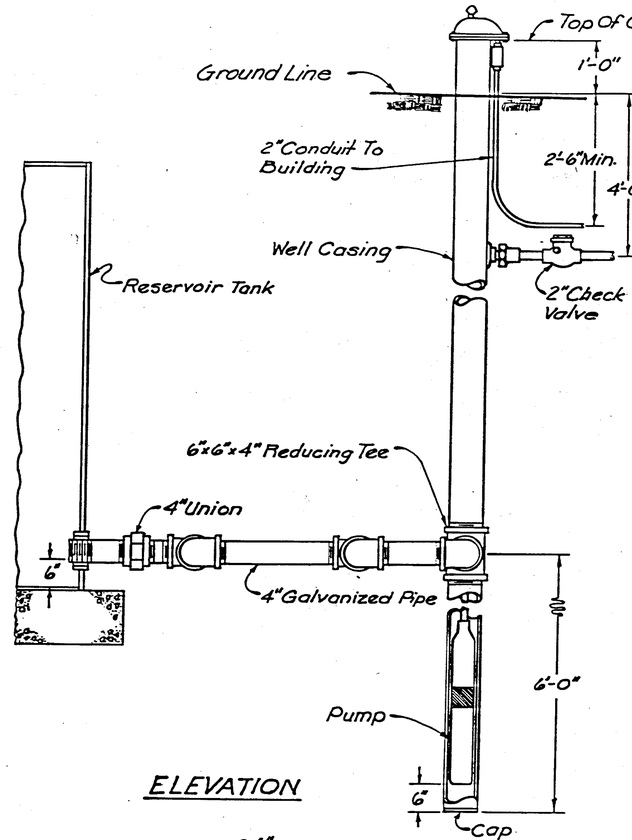


WELL TOP ASSEMBLY

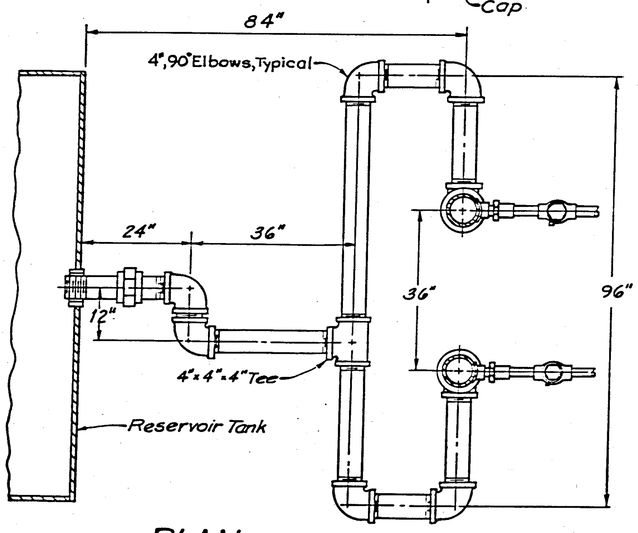


PITLESS ADAPTER ASSEMBLY





ELEVATION



PLAN

PRE-70-2.80
PREBLE COUNTY

68/68

NOTES

1. SUBMERSIBLE PUMP (2 REQ'D. PER REST AREA) SHALL BE F.E. MYERS CO. MODEL NO. 5JF-3021-J3050 OR APPROVED EQUAL. PUMP SHALL BE 3 H.P., 230V., SINGLE PHASE, 60 HZ, AND HAVE 3-WIRE MOTOR. THE MOTOR SHALL BE PROVIDED WITH A MAGNETIC ACROSS-THE-LINE STARTER AND SHALL BE INCLUDED IN THE CIRCUITRY OF THE WIRING DIAGRAM.

EACH PUMP INSTALLATION SHALL BE EQUIPPED WITH A LIGHTING ARRESTOR, SUCH AS F.E. MYERS CO., NO. 12149A10; GENERAL ELECTRIC CO., NO. 9L15BCC003 OR APPROVED EQUAL. GROUND SHALL BE CONNECTED TO CASING.

2. PITLESS ADAPTER ASSEMBLY WITH CLAMP-ON DISCHARGE FITTING BY BAKER MFG. CO., MONITOR DIVISION, NO. 5PL-6-U-C4 (FOR 1" DROP PIPE) OR APPROVED EQUAL BY DICKEN MFG. CO.; DUPLEX MFG. CO. OR WILLIAMS PRODUCT CO.

3. SIX INCH I.D. (6-5/8" O.D.) WELL CASING, ASTM A 53, GRADE B, STANDARD WEIGHT, SCHEDULE 40, GALVANIZED SEAMLESS STEEL PIPE AS PER 707.11.

4. 2" I.D. DROP PIPE, ASTM A 53, GRADE B, STANDARD WEIGHT, SCHEDULE 40, GALVANIZED SEAMLESS STEEL PIPE AS PER 707.11.

5. 2½ INCH (NOMINAL SIZE) TYPE "K" HARD DRAWN COPPER WATER TUBING PRESSURE LINE CONFORMING TO ASTM B 88. RUN IN 20 FOOT LENGTHS TO HYDROPNEUMATIC PRESSURE TANK IN BUILDING.

6. WATER-TIGHT CAP FOR 6" WELL CASING BY BAKER MFG. CO., MONITOR DIVISION NO. 6W; OR APPROVED EQUAL BY DICKEN MFG. CO.; DUPLEX MFG. CO. OR WILLIAMS PRODUCT CO.

7. CAST DEVICE BOX WITH FULL-FACE NEOPRENE GASKET AND BLANK COVER BY APPLETON ELECTRIC CO., NO. FDCC-1-100; OR APPROVED EQUAL BY KILLARK ELECTRIC MFG. CO., CROUSE-HINES CO., KODU CORP. OR ADALET MFG. CO.

8. TWO INCH DIAMETER RIGID FERROUS METAL ELECTRICAL CONDUIT PER 713.04.

9. THREE-WIRE ELECTRICAL SERVICE.

10. SCREENED WELL VENT TO MATCH CHOSEN FROM NOTE 6 ABOVE.

11. NIPPLE, ASTM A 53, GRADE B, STANDARD WEIGHT, SCHEDULE 40, GALVANIZED SEAMLESS STEEL PIPE AS PER 707.11; IF REQUIRED FOR SPECIFIC CAP USED.

12. REDUCER (OF SIZE REQ'D.), IF NEEDED FOR FERROUS METAL ELECTRICAL CONDUIT AS PER 713.04.

13. CAST BRASS MALE IRON PIPE SIZE TO COPPER ADAPTER AS PER ASTM B 16.13.

BUREAU OF DESIGN SERVICES
DIVISION OF HIGHWAYS
OHIO DEPARTMENT OF TRANSPORTATION

ROADSIDE DEVELOPMENT

DATE 3/8/84 9-6-84

RESERVOIR PUMP DETAILS

RRA-10

APPROVED _____ Engr. of Design Services