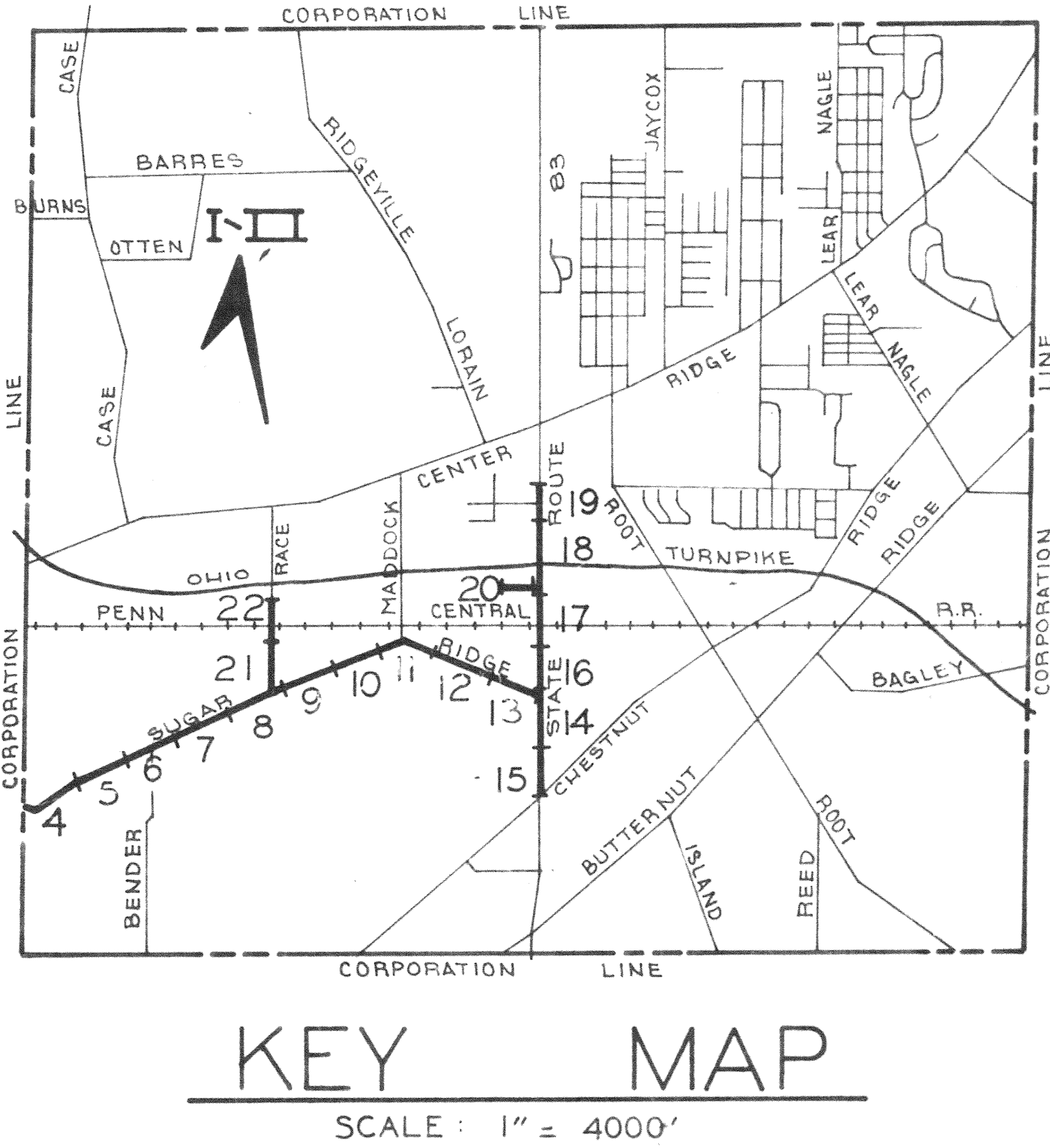


CITY OF
NORTH RIDGEVILLE
LORAIN COUNTY, OHIO
WATER MAINS & APPURTENANCES
CONTRACT A

INDEX

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PLAN - PROFILE	" "
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PLAN - PROFILE	" "
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APPROVALS

MAYOR: Charles H. Stuart

SAFETY - SERVICE DIRECTOR: Walter H. Krueger

PREPARED BY:
NEFF AND ASSOC.
1973
JAN. 29, 1975 REVIEWED & UPDATED

KLEINOEDER-SCHMIDT AND ASSOC.
JUNE 23, 1975 ADDITIONS & REVISIONS

AS BUILT

* NOTE: SHEETS 18-A, B, & C OF 25 ADDED 1-20-81. THESE SHOW DETAILS AND AS BUILT DATA OF SEWER AND WATER LINE CONSTRUCTION UNDER THE OHIO TURNPIKE @ STATE ROUTE 83.

GENERAL SUMMARY

SHEET NO.	STREET	WATER MAIN AS PER PLAN & SPECIFICATION			12" DUCTILE IRON WATER MAIN 16" BUTTERFLY VALVE	GATE VALVE AS PER PLAN & SPECIFICATION			TEES AS PER PLAN & SPECIFICATIONS								BENDS AS PER PLAN & SPECIFICATIONS						PLUG & CLAMP AS PER PLAN & SPEC.		16" x 12" REDUCER 12" - 22 1/2" BEND	HYDRANT ASSEMBLY "A"	HYDRANT ASSEMBLY "B"	ROAD CROSSING	24" STEEL CASING PIPE	CONC ENCASEMENT OF 16" W. M.	DRIVE REPAIR AS PER PLAN & SPEC.			MONUMENT ASSEMBLY	BOOSTER PUMP STATION	ALTITUDE VALVE VAULT & ASSMBY	8" x 8" TEE	16" PLUG & CLAMP	
		16"	12"	8"		12"	8"	6"	16"x16"	16"x12"	16"x8"	16"x6"	12"x12"	12"x8"	12"x6"	8"x6"	16"-45°	16"-22 1/2°	16"-11 1/4°	12"-45°	8"-22 1/2°	12"	8"	SLAG							ASPHTE	CONC.							
		LF	LF	LF		LF	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC	EC							EC	EC	LF						LF
	ITEM NO.	100	102	103	102B	104	105	106	107	108	109	110	111	112	113	114	116	118	119	120	122	126	133	134	136	123	146	147	149	151	152	155	156	157	158	159	161	115	132
4 OF 25	SUGAR RIDGE ROAD	1465										4						2									4							4	1				
5 OF 25	" " "	1500				1						4															4					7	1	1	1				
6 OF 25	" " "	1500				2				1		5															5					3		1					
7 OF 25	" " "	1500				1						4															4					5	6	1	1				
8 OF 25	" " "	1500				2					1	4															4		72			5	1	5	2				
9 OF 25	" " "	1500										5															5					11							
10 OF 25	" " "	1500				1						4															4					6	1	1					
11 OF 25	" " "	1510	30			2	1				1	4						8	2				1				4		60		50	7			3				
12 OF 25	" " "	1500				1						4															4					2	1						
13 OF 25	SUGAR RIDGE ROAD	1438		48		2		1				1	4					1				1					4		18			4	2		1				
14 OF 25	STATE ROUTE 83	1555	4			2	1			1		4													1		4		65			8	1	1	1				
15 OF 25	" " "	1470		20		3		2		1		2	4					1						2	1			4		90			1			2			
16 OF 25	" " "		1445				1									5											5					2	1						
17 OF 25	" " "		1360		140			3							1	3											3			125		10			1				
18 OF 25	" " "		1265		260		3		1						2					1			1				1		260		5	1							
19 OF 25	STATE ROUTE 83		717				1	1					1	1								1							55		7				3				
20 OF 25	WESTWOOD DRIVE			970				2								3							1		1				3			7			1				
21 OF 25	RACE ROAD		1005		110		2								4					4		1					4			110				2					
22 OF 25	" "		1372				2								4							1				1	4					1	1	1					
	TOTALS	17938	7198	1038	470	17	11	9	1	3	2	3	50	3	2	18	3	1	11	2	5	1	5	4	2	1	67	3	360	495	50	97	16	13	20	1	1		

ITEM NO.

162 3/4" LONG SERVICE CONNECTION 148 EC.

163 3/4" SHORT " " 113 EC.

164 1" LONG " " 1 EC.

165 1" SHORT " " 2 EC

GENERAL NOTES

SPECIFICATIONS: The City of North Ridgeville, Water Line Material and Construction Specifications along with the Standard Specifications of the State of Ohio and such "Approved Alternates" as may be acceptable to the Engineer shall govern this project.

FIELD OFFICE: The Contractor shall provide and maintain a suitable Field Office during the construction of this project. The Field Office shall be equipped with such facilities as a telephone, light and power and with sanitary provisions.

CONSTRUCTION LAYOUT STAKES: Horizontal and Vertical control & All construction stake out shall be the responsibility of the City Engineer.

HAUL ROADS: The use of the existing residential streets for Haul Roads will require the prior approval of the Engineer.

SHEETING: In areas so designated by the Engineer, the Contractor shall, at his own expense, furnish and install all sheeting, bracing, supports, etc. that may, in the opinion of the Engineer, be necessary to diminish the width that is necessary for construction or to prevent any caving or settling of trench walls which could in any way damage the water line, adjacent property, structures, utilities, or otherwise delay or injure the work.

UTILITIES: At least two (2) working days before breaking ground the Contractor shall notify all public service corporations having wire, poles, pipe, conduits, manholes, or other structures, that may be affected by this project. Any and all work required for public or private utilities will be done by and at the expense of their respective owners unless otherwise shown on the plans. The following is a list of the utilities within the limits of this project.

Columbia Gas of Ohio - 216 3 rd St. Elyria	323-5551
Elyria Telephone Co. 363 3 rd St. Elyria	322-4681
Ohio Bell Telephone Co. - 36885 Cuth Ridge Rd. N. Ridgeville	327-2231
Cleveland Electric Illuminating Co. - 55 Public Sq. Cleveland	623-1311
Ohio Edison Co. - 405 Broad St. Elyria, Ohio	324-5431
City of Elyria Water 851 Garden St. Elyria	322-2927

PRECAUTIONS AGAINST UTILITY DAMAGE: The Contractor shall take all necessary precautions to avoid damage to existing underground utility lines during the installation of the water main and appurtenances.

LOCATION AND SIZE OF UNDERGROUND UTILITIES: The location, type, depth, and size of all existing underground pipes and utilities shown on these plans have been obtained by diligent field checks and searches of available records. It is believed that they are essentially correct, but there are no guarantees made to their accuracy or completeness.

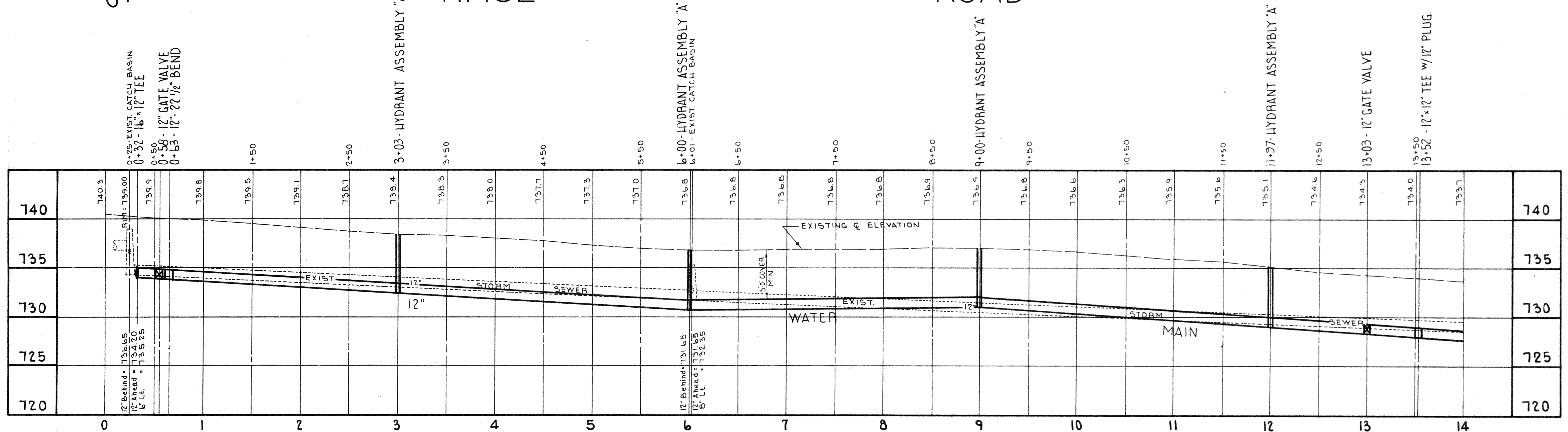
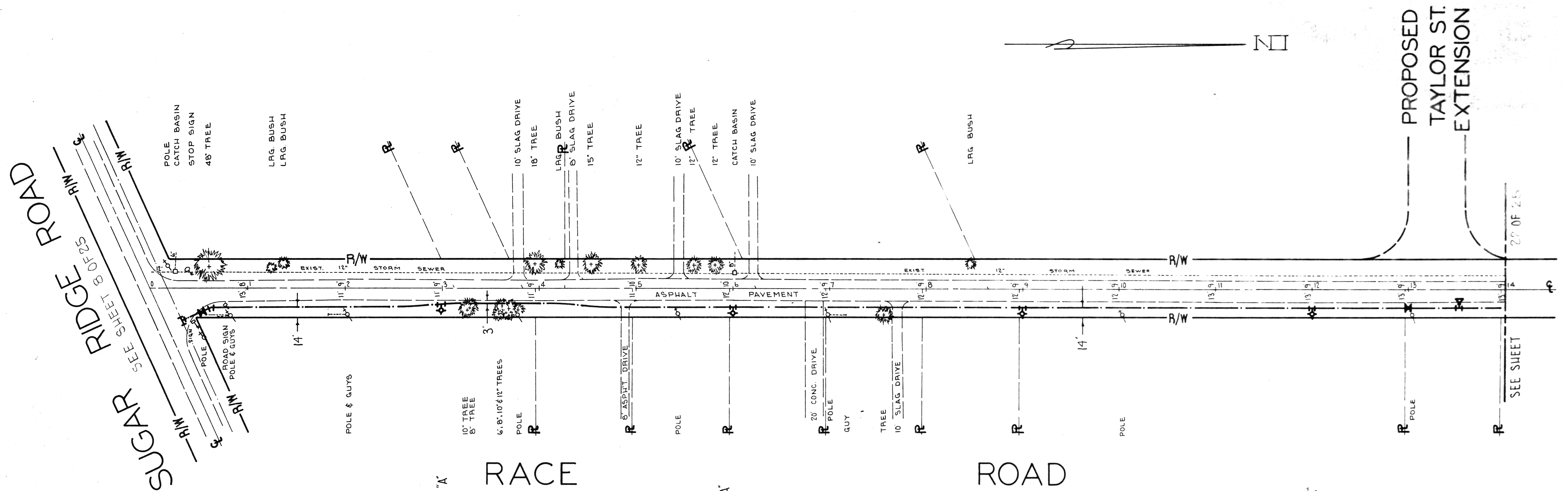
MAINTENANCE OF ACCESS AND TRAFFIC: Two way traffic shall be maintained at all times whenever possible. Where any of the work called for under this contract involves the closing of existing roads and/or the re-routing of traffic the Contractor shall prosecute to the fullest extent the work involved so as to reduce to a minimum the length of time that the roadway will be closed to traffic. No road will be closed until necessary for construction, as determined by the Engineer. Police and Fire Departments shall be notified of road closings and detours.

The Contractor shall maintain safe and satisfactory access, including snow and ice removal, to abutting properties and intersecting streets at all times during construction including the construction and removal if necessary of temporary roadways, by-passes, bridging, crossovers, and driveways.

The Contractor shall furnish and maintain all necessary safeguards such as barricades, satisfactory barriers, lighting, flagmen, temporary guard rails, and such other traffic control devices as may be necessary so as to avoid damage and/or injury to vehicles and persons using the roadway during construction.

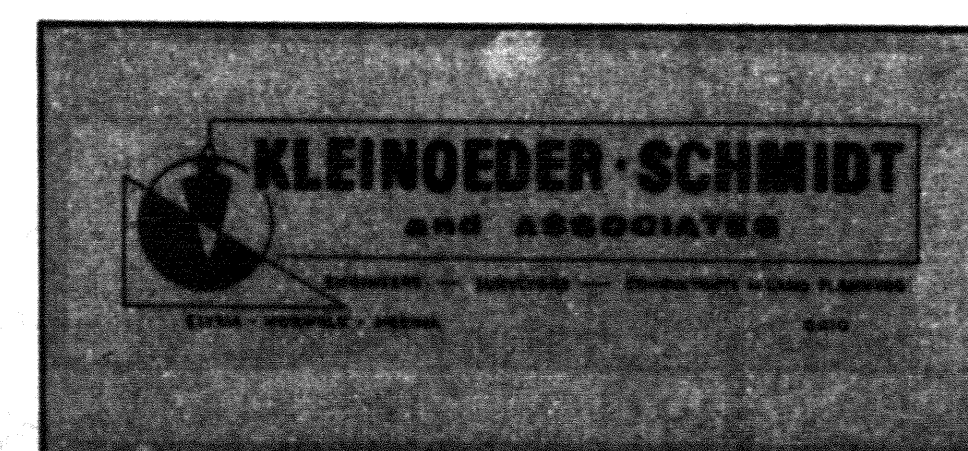
Work within the limits of the Ohio Turnpike shall conform to the requirements of the Ohio Turnpike Commission.

Work within the limits of the Penn Central Railroad Right-of-way shall conform to the requirements of the Penn Central Railroad.



ESTIMATED QUANTITIES											
12" WATER LINE, AS PER PLAN & SPEC.	12" VALVE, AS PER PLAN & SPEC.		12" x 12" TEE, AS PER PLAN & SPEC.	12" x 22 1/2" BEND, AS PER PLAN & SPEC.	HYDRANT ASSEMBLY 'A', AS PER PLAN & SPEC.	12" PLUG & CLAMP, AS PER PLAN & SPEC.	SLAG DRIVE REPAIR, AS PER PLAN & SPEC.	CONC. DRIVE REPAIR, AS PER PLAN & SPEC.	ASPH'T DRIVE REPAIR, AS PER PLAN & SPEC.	12" x 6" TEE, AS PER PLAN & SPEC.	
LIN. FT.	EC.		EC.	EC.	EC.	EC.	EC.	EC.	EC.	EC.	
1372	2		1	1	4	1	1	1	1	4	

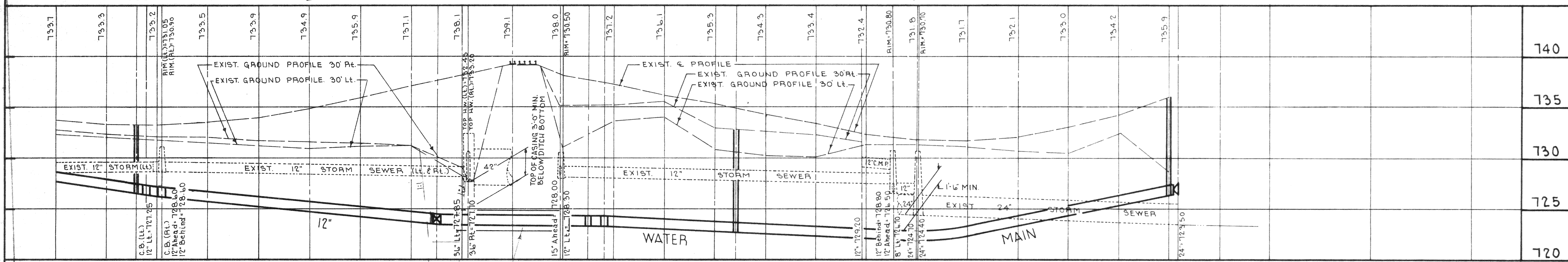
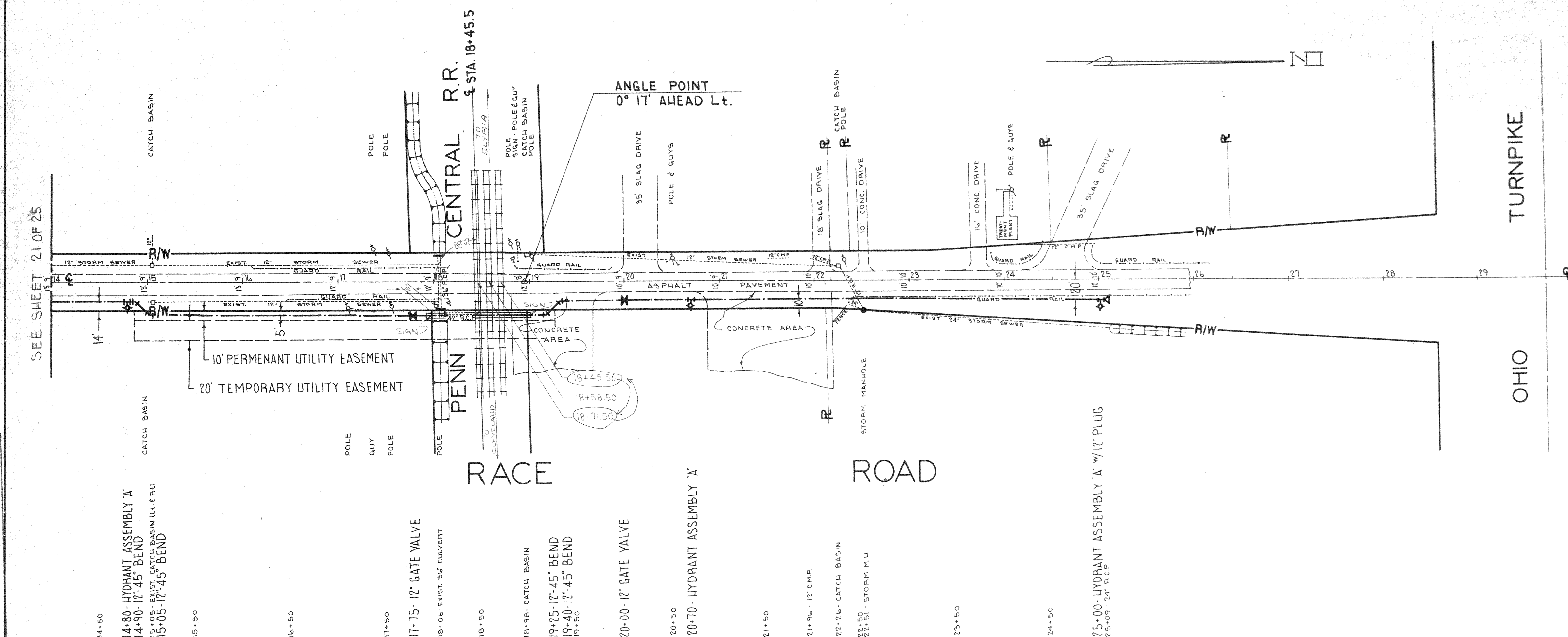
AS BUILT



CITY OF NORTH RIDGEVILLE			
WATER LINE IMPROVEMENTS			
12" WATER MAIN RACE ROAD		CONTRACT A	
0+00		14+00	
SCALE: HOR.	1" = 50'	DATE: 7/8/75	SHEET: 21 of 25
VER.	1" = 5'	JOB NO. R-039	

REVISED AS CONSTRUCTED 1-19-81 K.K.S.

SEE SHEET 21 OF 25



14 15 16 17 18 19 20 21 22 23 24 25 26 28 29

733.7 733.3 733.2 733.5 733.9 734.9 735.9 737.1 738.1 739.1 738.0 737.2 736.1 735.3 734.3 733.4 732.4 731.8 731.7 732.1 733.0 734.2 735.9

14+50 15+50 16+50 17+50 18+50 19+50 20+50 21+50 22+50 23+50 24+50 25+00

14+80-HYDRANT ASSEMBLY "A"
14+90-12'-45" BEND
15+05-EXIST. CATCH BASIN (L & R)
15+05-12'-45" BEND

17+75-12" GATE VALVE
18+05-EXIST. 36" CULVERT

19+25-12'-45" BEND
19+40-12'-45" BEND

20+00-12" GATE VALVE
20+70-HYDRANT ASSEMBLY "A"

22+26-CATCH BASIN
22+51-24" STORM M.H.

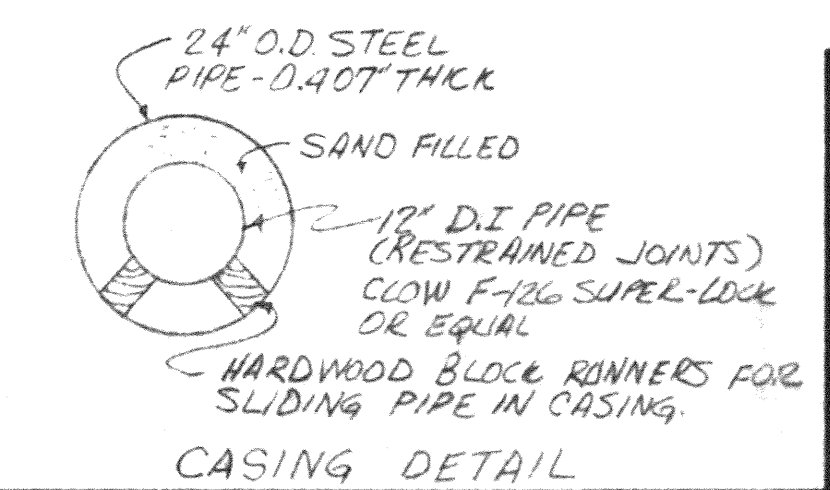
25+00-HYDRANT ASSEMBLY "A" w/12" PLUG
25+05-24" HCP

EXIST. 12" STORM SEWER (L & R)
EXIST. 12" STORM SEWER (L & R)
EXIST. 12" STORM SEWER
EXIST. 24" STORM SEWER

12" WATER
12" D.I. WATER
12" 45° BEND
12" VALVE
12" PLUG & CLAMP
24" STEEL CASING
HYDRANT ASSEMBLY "A"
12" 6" TEE
CONC. DRIVE REPAIR

AS BUILT

ESTIMATED QUANTITIES														
12" WATER LINE, AS PER PLAN & SPEC.	12" D.I. WATER LINE, AS PER PLAN & SPEC.	12" 45° BEND AS PER PLAN & SPEC.	12" VALVE AS PER PLAN & SPEC.	12" PLUG & CLAMP, AS PER PLAN & SPEC.	24" STEEL CASING, AS PER PLAN & SPEC.	HYDRANT ASSEMBLY "A" AS PER PLAN & SPEC.	12" 6" TEE AS PER PLAN & SPEC.	CONC. DRIVE REPAIR, AS PER PLAN & SPEC.						
L.F.	L.F.	EC.	EC.	EC.	L.F.	EC.	EC.	EC.						
1005	110	4	2	1	110	3	3	2						



KLEINFEDER-SCHMIDT
AND ASSOCIATES

CITY OF NORTH RIDGEVILLE
WATER LINE IMPROVEMENTS

12" WATER MAIN RACE ROAD CONTRACT "A"

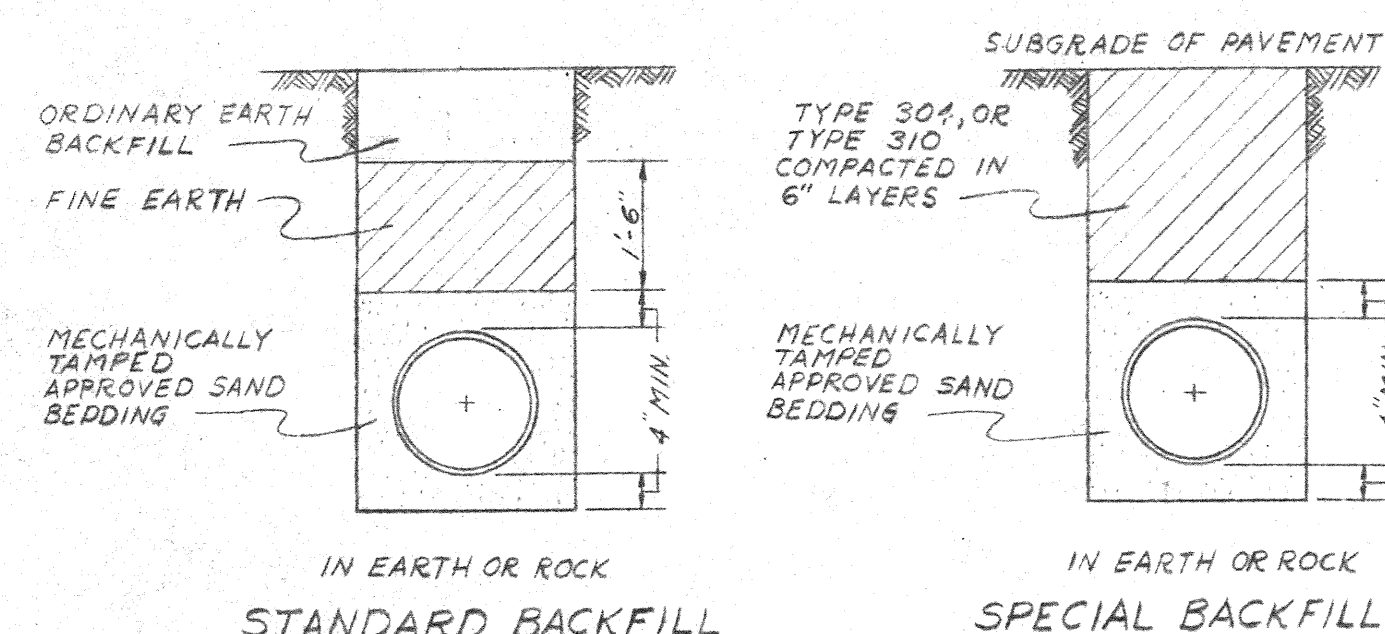
14+00 25+00

SCALE: H.P. 1"=50' V.P. 1"=5'

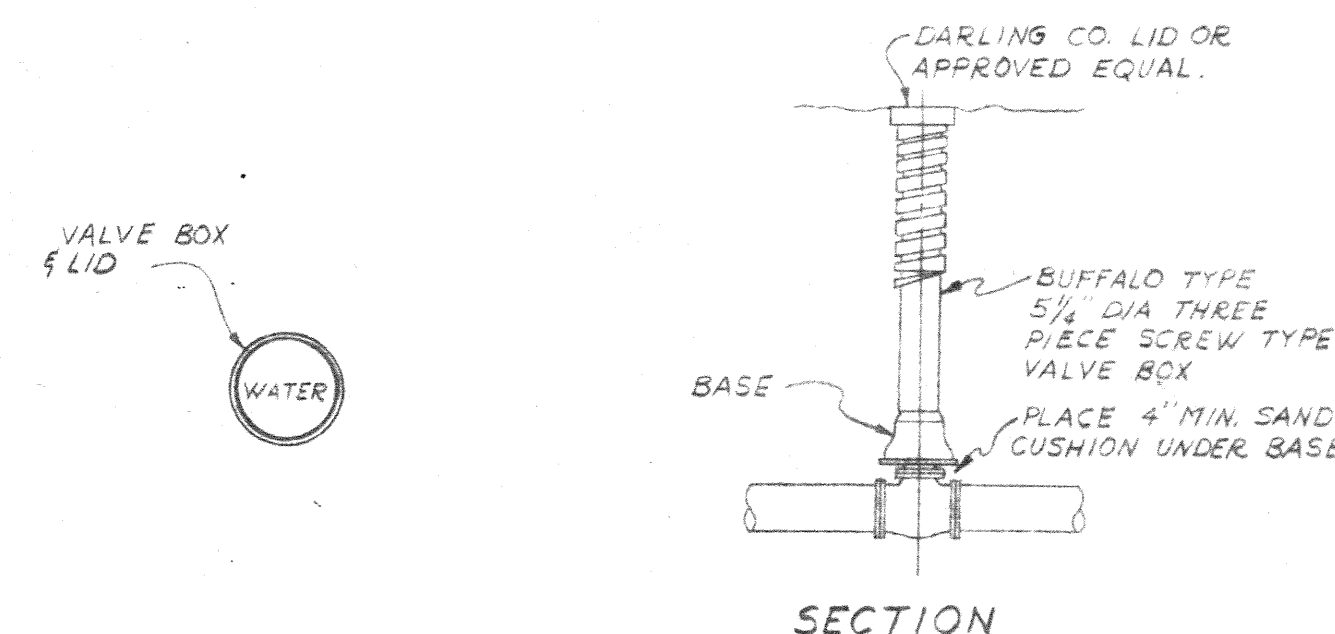
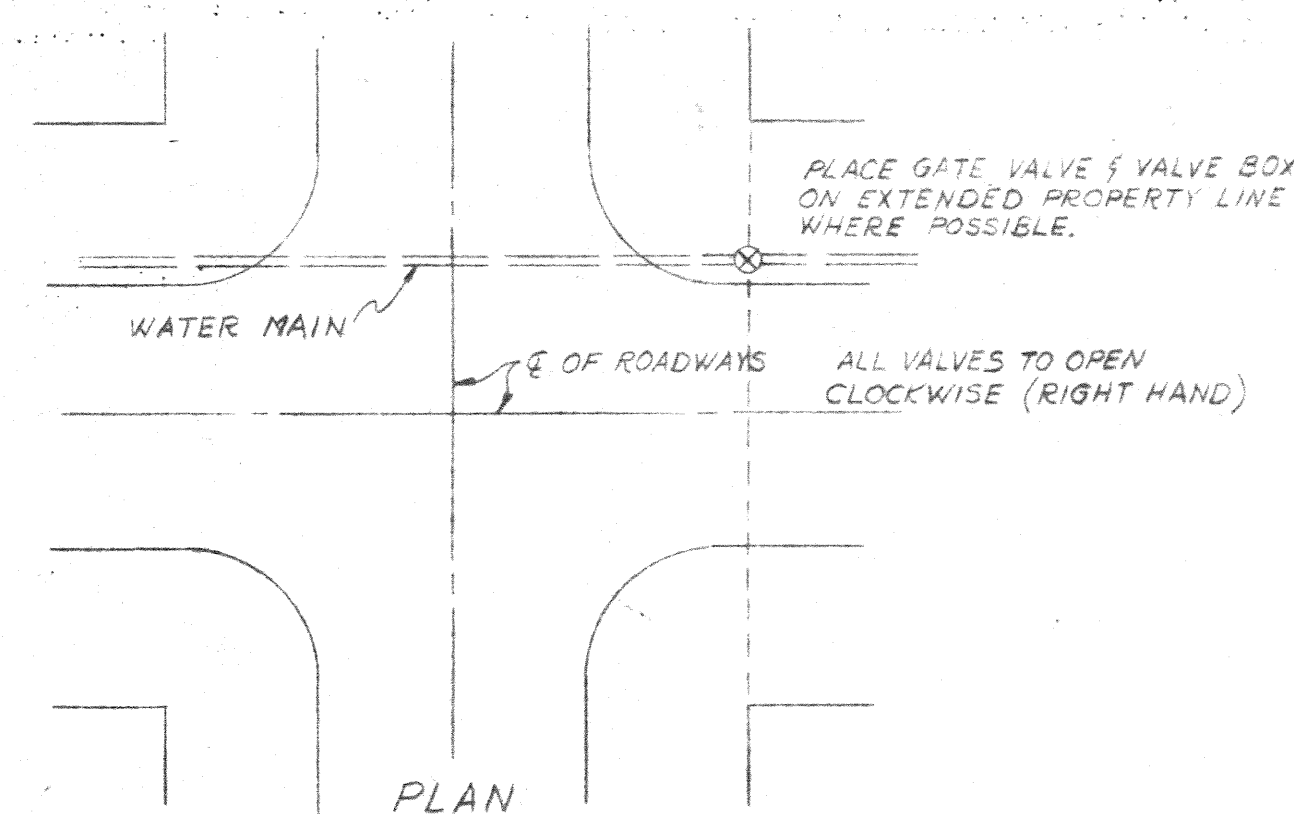
DATE: 7/8/75
JOB NO. R-039

SHEET: 22 of 25

REVISED AS CONSTRUCTED 1-19-81 K.V.S.

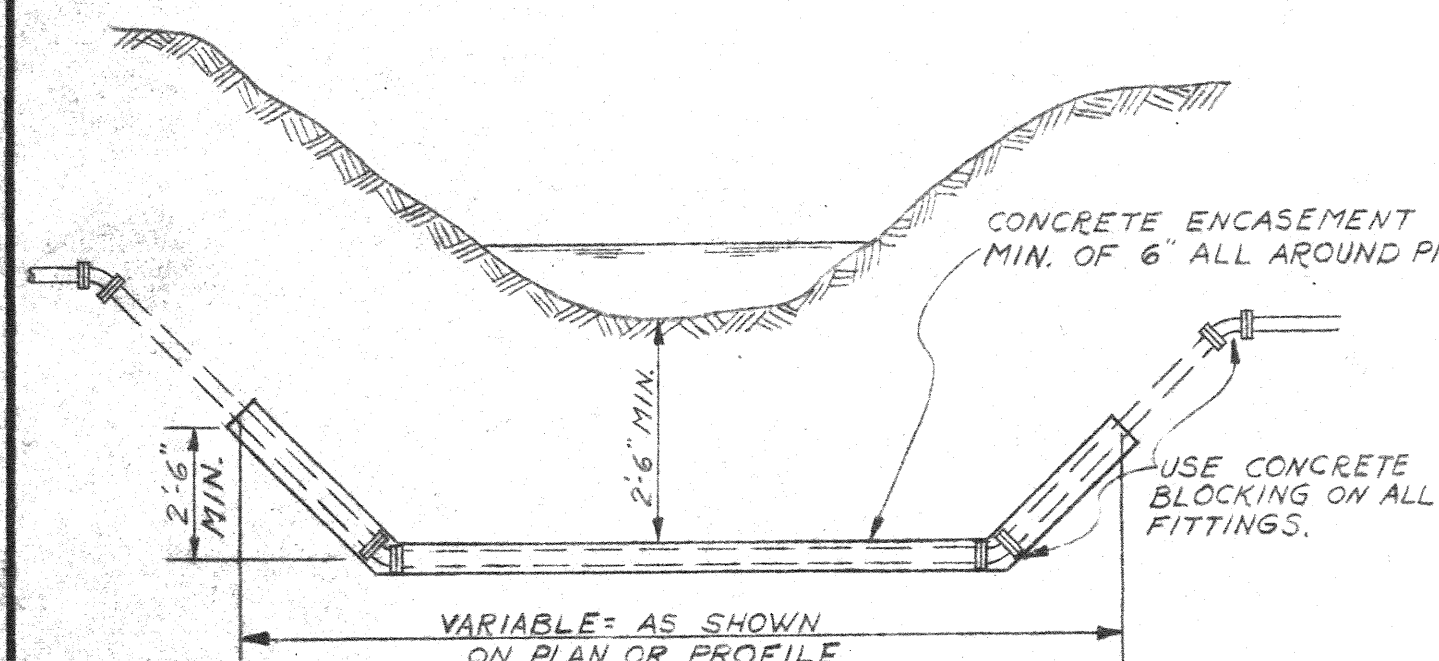


NOTES: USE STANDARD BACKFILL METHODS IN ALL UNPAVED AREAS.
USE SPECIAL BACKFILL METHODS UNDER ALL EXISTING OR PROPOSED PAVEMENTS.
NO ORGANIC BACKFILL WILL BE ALLOWED.
TRENCH SECTIONS FOR WATER MAINS

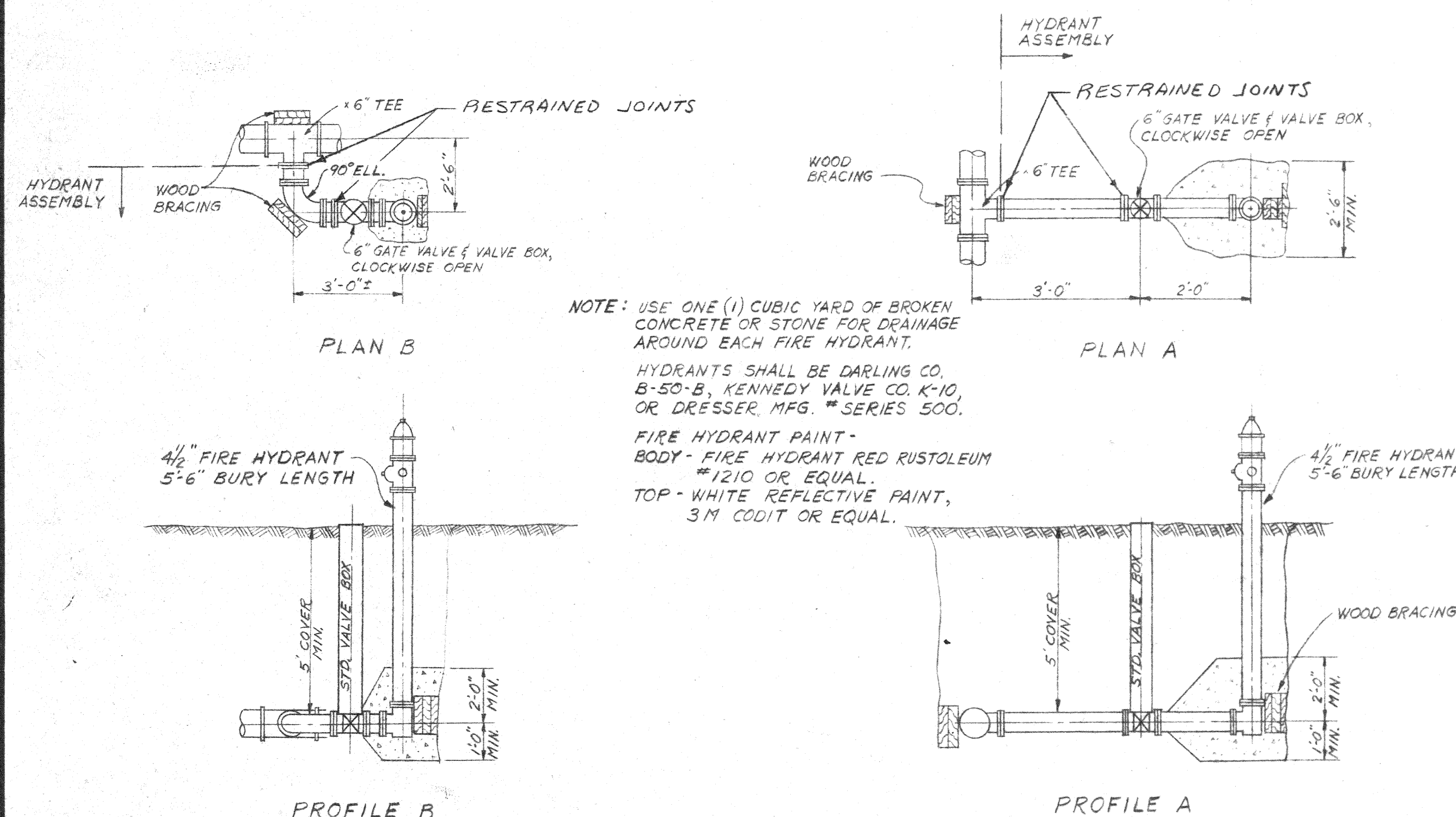


NOTE: USE DARLING CO. NO. 6 BASE, OR APPROVED EQUAL FOR 6" & 8" GATE VALVES. USE DARLING CO. NO. 160 BASE, OR APPROVED EQUAL FOR VALVE SIZE 12" AND LARGER.

VALVE BOX INSTALLATION



DITCH CROSSING FOR WATER MAINS

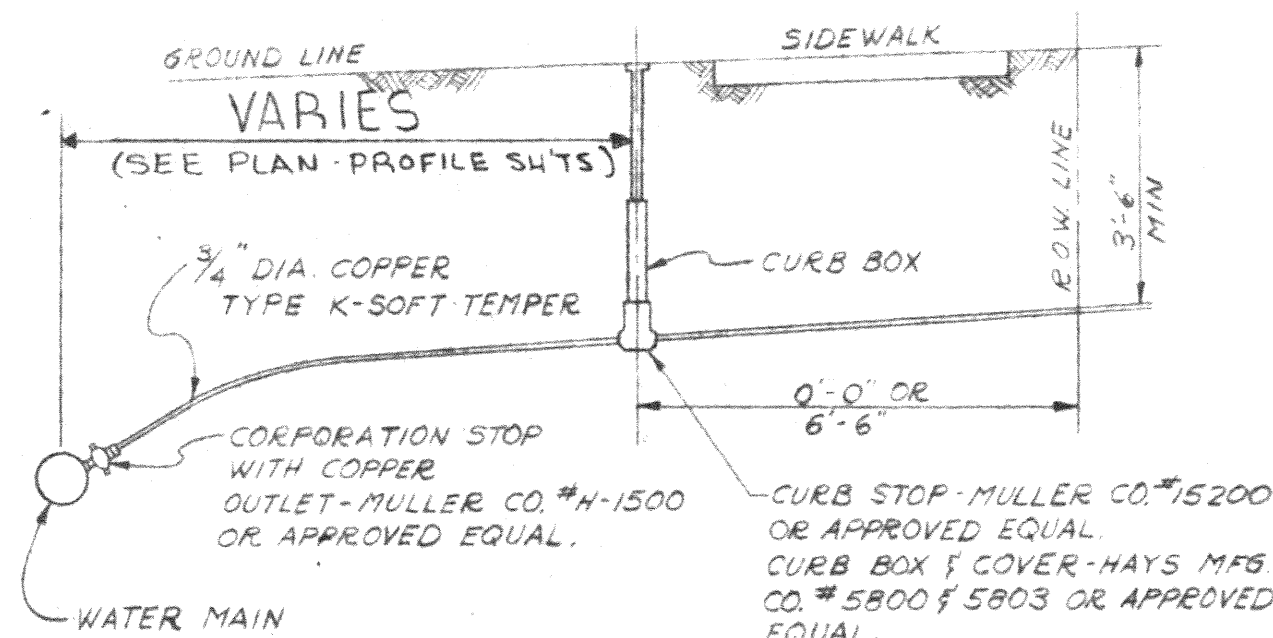


NOTE: USE ONE (1) CUBIC YARD OF BROKEN CONCRETE OR STONE FOR DRAINAGE AROUND EACH FIRE HYDRANT.

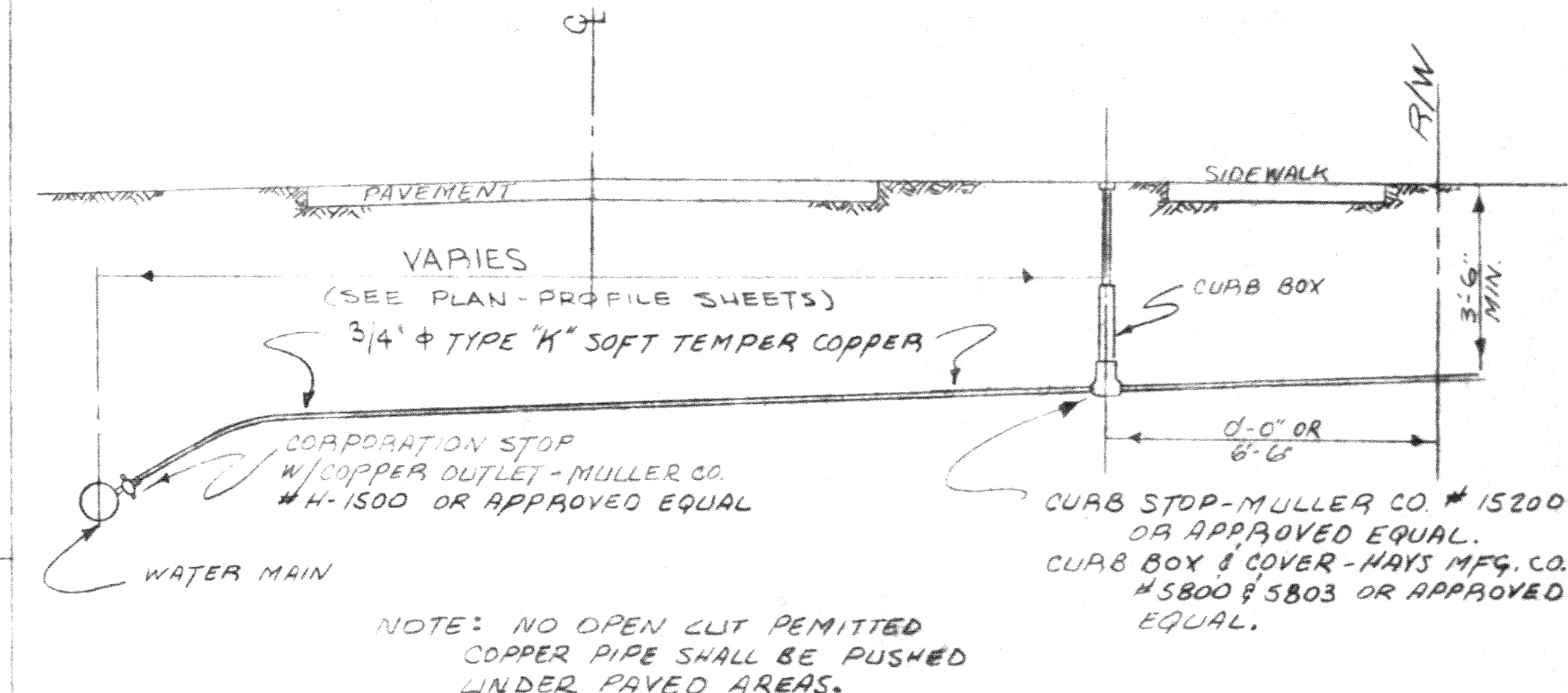
HYDRANTS SHALL BE DARLING CO. B-50-B, KENNEDY VALVE CO. K-10, OR DRESSER MFG. # SERIES 500.

FIRE HYDRANT PAINT - BODY - FIRE HYDRANT RED RUSTOLEUM #1210 OR EQUAL.
TOP - WHITE REFLECTIVE PAINT, 3M CODIT OR EQUAL.

FIRE HYDRANT INSTALLATION

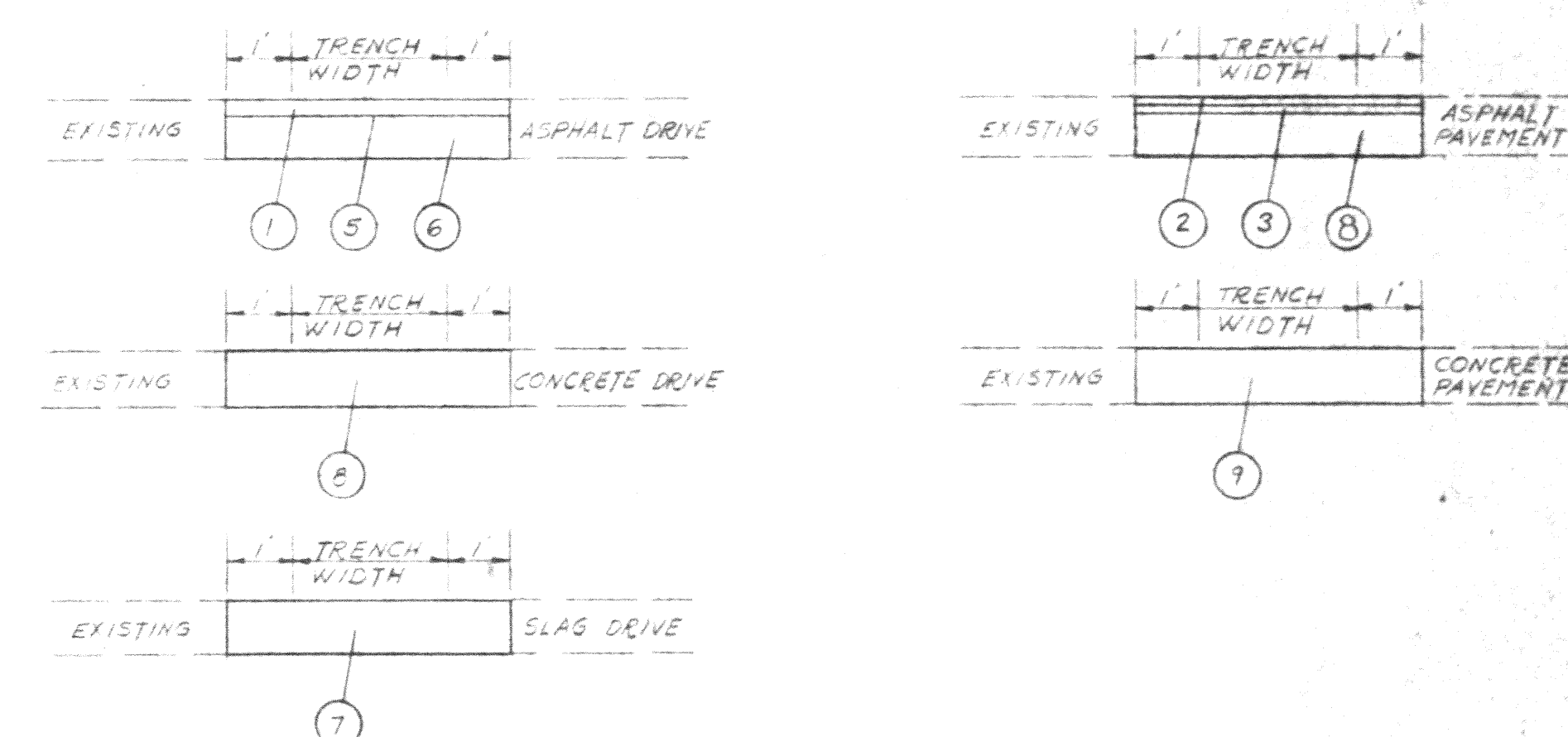


SHORT SERVICE CONNECTION



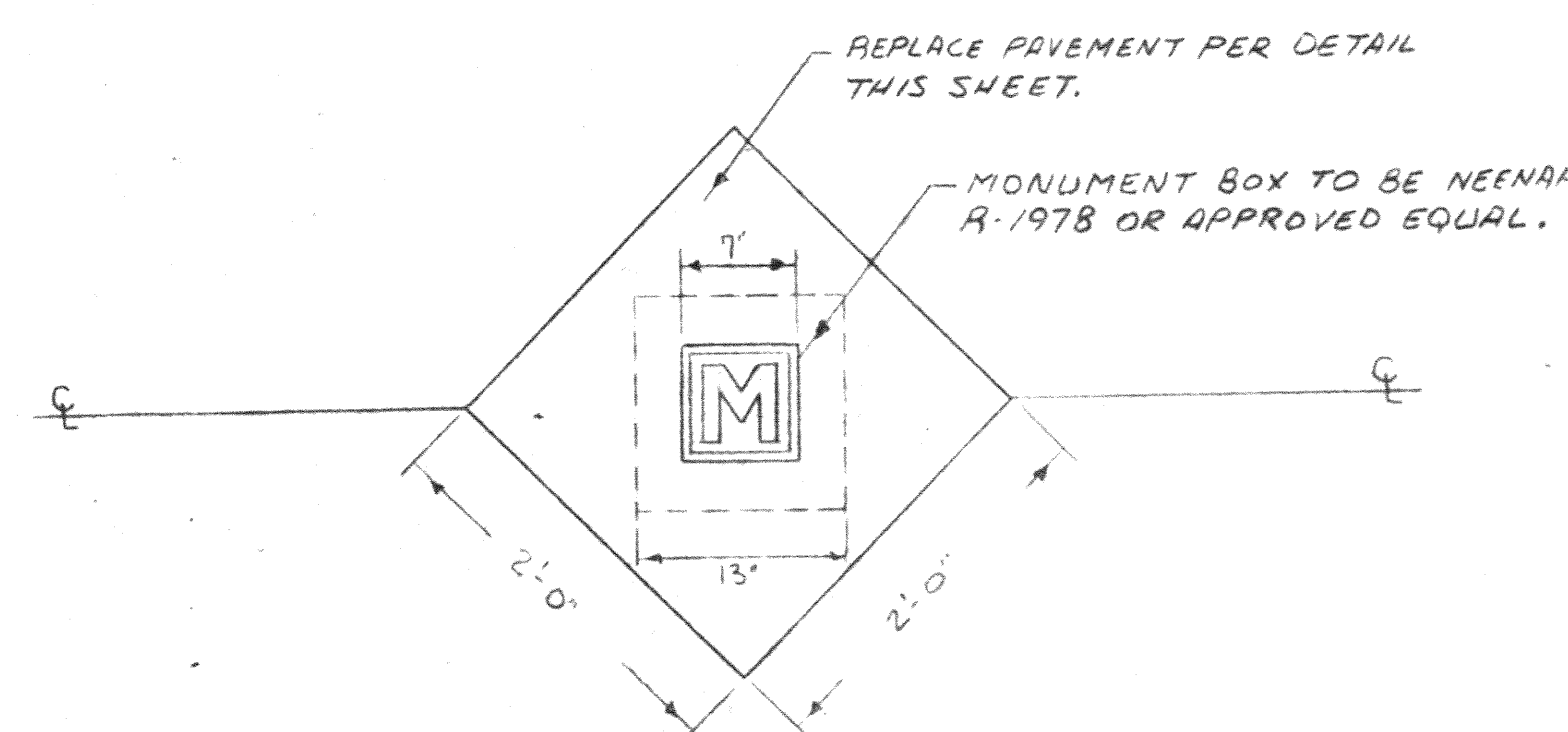
NOTE: NO OPEN CUT PERMITTED
COPPER PIPE SHALL BE PUSHED UNDER PAVED AREAS.

LONG SERVICE CONNECTION



- 1 2" 404 ASPHALT CONCRETE (70-85 OR AC-20), 2-1" COURSES
- 2 1 1/2" 404 ASPHALT CONCRETE (70-85 OR AC-20)
- 3 1 1/4" 402 ASPHALT CONCRETE (70-85 OR AC-20)
- 4 3/4" 301 BITUMINOUS AGGREGATE BASE, 702.01 (85-100 OR AC-20) OR 702.09, RT. 11 OR RT. 12
- 5 403 BITUMINOUS PRIME COAT, 702.09, RT. 2 OR RT. 3, APPLIED 0.4 GAL. PER SQUARE YARD.
- 6 5" 304 AGGREGATE BASE
- 7 8" 304 AGGREGATE BASE
- 8 6" 452 PLAIN PORTLAND CEMENT CONCRETE PAVEMENT.
- 9 7" 452 PLAIN PORTLAND CEMENT CONCRETE PAVEMENT.

DRIVE REPAIR & PAVEMENT REPLACEMENT



MONUMENT DETAIL
SCALE: NONE

NEFF & ASSOCIATES
CIVIL ENGINEERS & SURVEYORS

6415 STUMPH ROAD 538 W. BROAD STREET
CLEVELAND, OHIO 44130 ELYRIA, OHIO 44035
(216) 884-5181 (216) 323-3797

REVISED 7/3/75 WLEINVOEDER-SCHMIDT AND ASSOC.

CITY OF NORTH RIDGEVILLE
WATER LINE IMPROVEMENTS

GENERAL DETAILS
CONTRACT "A"

SCALE:

DATE: 1/29/75
JOB NO. 6385

SHEET:
23 OF 25