

PLANS SYMBOLS

STATE LINE	SPRINGS
COUNTY LINE	MARSH
TOWNSHIP OR RANGE LINE	TIMBER
SECTION LINE	ORCHARD
QUARTER LINE	BRUSH
SIXTEENTH LINE	NURSERY
RIGHT OF WAY LINE	CATCH BASIN
PRELIMINARY RIGHT OF WAY LINE	FIRE HYDRANT
CONTRACT OF ACCESS LINE	CATTLE GUARD
PROPERTY LINE (ECCENTRIC LINES)	OVERPASS Highway Over
VACATED PLATTED PROPERTY	UNDERPASS Highway Under
CORPORATE OR CITY LIMITS	BRIDGE
TRUNK HIGHWAY CENTER LINE	BUILDING (One Story Frame)
RETAINING WALL	F FRAME C CONCRETE
RAILROAD	S STONE T TILE
RAILROAD RIGHT OF WAY LINE	B BRICK ST STUCCO
RIVER OR CREEK	IRON PIPE OR ROD
DRY RUN	MONUMENT (STONE CONCRETE OR METAL)
ORANGE DITCH	WOODEN HUB
DRAIN TILE	GRAVEL PIT
CULVERT	SAND PIT
DRAIN TILE	BORROW PIT
GUARD RAIL	ROCK QUARRY
BARBED WIRE FENCE	
WIRE FENCE	
CHAIN LINK FENCE	
RAILROAD SIGN FENCE	
STONE WALL OR FENCE	
HEDGE	
RAILROAD CROSSING SIGN	
RAILROAD CROSSING BELL	
ELECTRIC WARNING SIGN	
CROSSING GATE	
MEASURED CORNER	

UTILITIES SYMBOLS

POWER POLE LINE	CONDUIT
TELEPHONE OR TELEGRAPH POLE LINE	TELEPHONE CABLE IN CONDUIT
JOINT TELEPHONE AND POWER ON TELEPHONE POLES	ELECTRIC CABLE IN CONDUIT
ANCHOR	TELEPHONE MANHOLE
STEEL TOWER	ELECTRIC MANHOLE
STREET LIGHT	BURIED TELEPHONE CABLE
PERMANENT TELEPHONE CABLE TERMINAL	BURIED ELECTRIC CABLE
GAS MAIN	AERIAL TELEPHONE CABLE
WATER MAIN	SEWER (SANITARY OR STORM)
	SEWER MANHOLE

PIT DATA

PIT NO. Located in Dead Haul

PIT NO. Located in Dead Haul

VICTORIA ST. S.A.P. 62-652-01

FROM: A POINT ON THE EAST LINE OF THE NORTHWEST 1/4 SECTION II T29N R23W 542.54 FEET WEST OF THE NORTH 1073.75' SOUTH OF THE NORTH 1/4 CORNER OF SAID SECTION II.

TO: A POINT 18.59 FEET SOUTH AND 542.54 FEET WEST OF THE NORTH 1/4 CORNER SECTION II T29N R23W

OFFICE OF COUNTY ENGINEER

RAMSEY COUNTY

CONSTRUCTION PLAN FOR GRADING AND BITUMINOUS SURFACING

COUNTY ROAD "C" S.A.P. 62-623-10

BETWEEN: OXFORD ST. AND DALE ST.

FROM: A POINT 103 FEET SOUTH AND 713 FEET EAST OF THE NORTHWEST CORNER SECTION II T29N R23W

TO: A POINT ON THE NORTH LINE OF SECTION II 90 FEET WEST OF THE NORTHEAST CORNER OF SAID SECTION II, T29N R23W

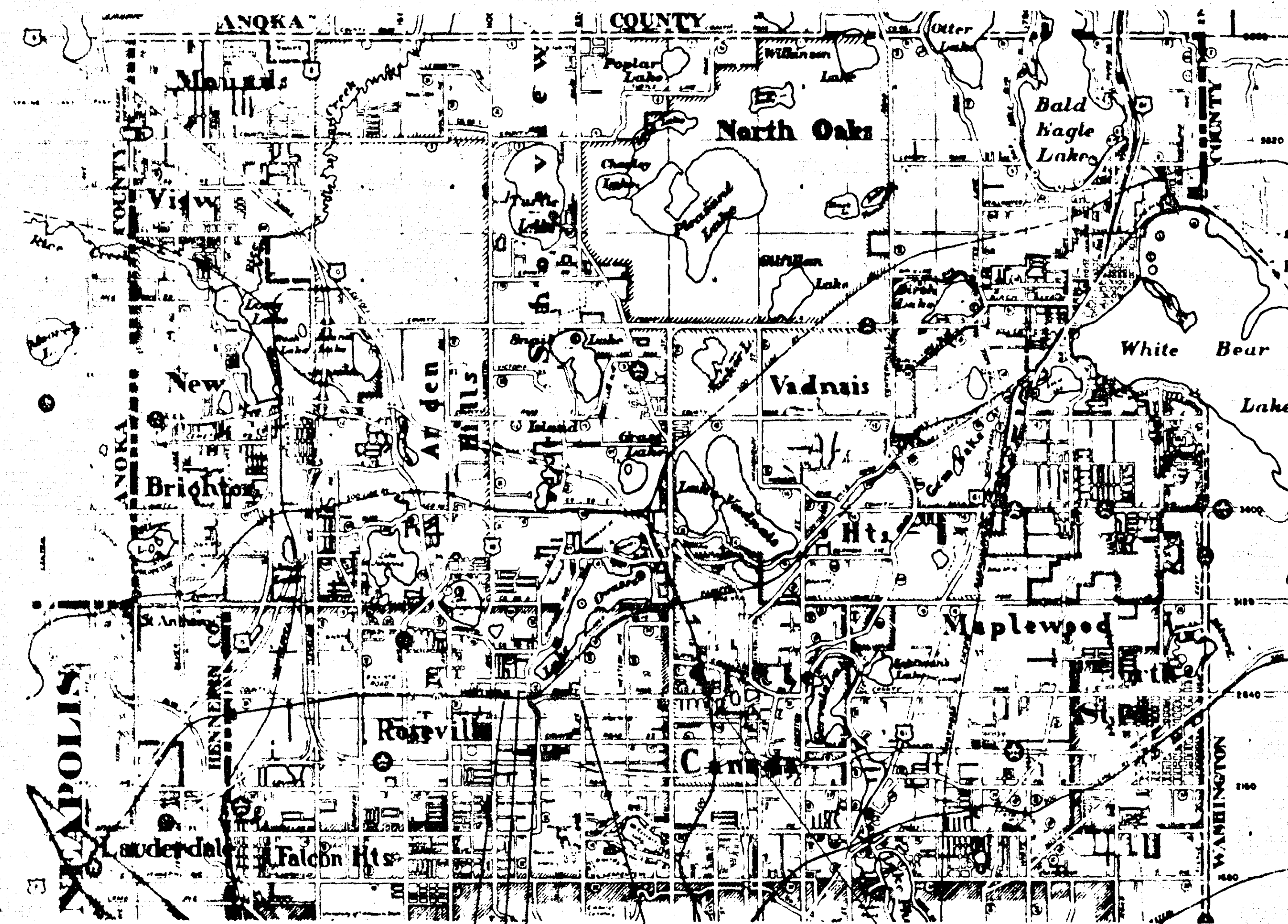
CO. RD. C	GROSS LENGTH	4603.82 FEET 0.8719 MILES
	BRIDGES LENGTH	225.00 FEET 0.0426 MILES
	EXCEPTIONS LENGTH	225.00 FEET 0.0426 MILES
	NET LENGTH	4378.82 FEET 0.8293 MILES
VICTORIA ST.	GROSS LENGTH	1230.00 FEET 0.2329 MILES
	EXCEPTION LENGTH	110.00 FEET 0.0208 MILES
	NET LENGTH	1120.00 FEET 0.2121 MILES
SCALES	PROFILE, horiz	1 inch = 50 feet, vert. 1 inch = 5 feet
	WORKING PLAN	horiz 1 inch = 50 feet, vert 1 inch = 50 feet
	LAYOUT, 1 inch	= 2640 feet
	PLAN, 1 inch	= 50 feet

DESIGN DESIGNATION S.A.P. 62-623-10 S.A.P. 62-652-01

ADT 1972	=		
ADT 1985	=	7000	
DIV	=		
C (DIRECTIONAL DISTRIBUTION)	=	50-50	50-50
T (HEAVY COMMERCIAL)	=	350	
DESIGN SPEED	=	40 MPH	40
STA. 65 TO 71	=	35	
DESIGN LOAD	=	9 TON	
SOILS FACTOR	=	100	

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	TYPICAL SHEET & ESTIMATED QUANTITIES
3-4	DRAINAGE CHARTS & DETAILS
5-6	DETAIL SHEETS
7-9	PLAN AND PROFILE SHEETS
10-11	CONSTRUCTION PLANS
12-2	CROSS SECTIONS
27	PLAN SHEET
28-29	CROSS SECTIONS



CITY OF ST. PAUL

COMMON BORROW SOURCE SEE SHEETS 27, 28, 29

BEG. PROJ. S.A.P. 62-623-10 STA. 59+68

END PROJ. S.A.P. 62-623-10 STA. 30+24

END PROJ. S.A.P. 62-652-01 STA. 112+30

BEG. PROJ. S.A.P. 62-652-01 STA. 100+00

THE "MINNESOTA HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION" DATED JANUARY 1, 1972 SHALL GOVERN.

W.A. Ghossein 6/6/72 HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Maria K. Leland 6/1/72 REG. NO. 2042 DATE 2-17-72

Kenneth E. White 6/1/72

RECOMMENDED FOR APPROVAL *Don R. Gable* COUNTY ENGINEER DATE 4-3-72

APPROVED *John T. Finley* DATE 4-10-72

APPROVED *Joe Wee* CHAIRMAN OF THE RAMSEY COUNTY BOARD

APPROVED MAYOR, VILLAGE OF ROSEVILLE DATE

APPROVED DATE

MINNESOTA STATE HIGHWAY DEPARTMENT

RECOMMENDED FOR APPROVAL *Don R. Gable* DATE 4-3-72

RECOMMENDED FOR APPROVAL *Don R. Gable* DISTRICT STATE AID ENGINEER DATE 4-10-72

APPROVAL *William J. Skally* STATE AID ENGINEER DATE 4/20/72

ASBUILT PLAN CONFORMING TO CONST. RECORDS

DONE BY: DATE:

ASBUILT

DONE BY: WILLIAM J. SKALLY

DATE: 7-14-74

DRAINAGE CHART CO. RD. "C"

STATION	LOCATION	NO.	TYPE	DESIGN	CONST HEIGHT LIN FT	CASTING ASSEMBLY	ELEVATION				ADJUST CASTING ASSEMBLY	RECONSTRUCT CB OR MH LIN FT	INSTALL CASTING ASSEMBLY	INSTALL CONCRETE PIPE SEWER LINEAR FEET						REMOVE PIPE SEWER LIN FT	APRON	CLASS	DRAINS TO		REMARK
							CURB GRADE	ORIGINAL GRATE OR RING	NEW GRATE OR RING	CB OR MH INVERT				15"	18"	24"	30"	36"	MISC.				STRUCTURE NO	INV EL	
61+31	RT. 25	1	CB	PC-2	3.15	B	901.37	900.54	901.37				28									2	897.1		
61+31	RT. 25	2	CB	PC-2	4.36	C	901.20	901.12	901.02				37					1		APRON	696.6	STA 61+24 LT. 55			
74+60	RT. 25	1	CB	PC-2	5.80	C	903.10	903.02	899.0				134								5	894.2			
75+10	RT. 25	1	CB	PC-2	4.15	B	899.15	898.69	894.7				65								5	894.2			
75+30	RT. 25	5	CB	PC-2	4.10	B	898.72	898.06	894.2				306								7	890.4			
75+83	RT. 25	5	CB	PC-2			897.00	896.66		4.8	1												REMOVE CONE ADD 4' 0"		
76+56	RT. 25	7	CB	PC-2	5.42	E	895.25	895.25	890.4				53								8	889.68			
76+36	LT. 76	8	CB	PC-2	6.13	E	895.15	895.25	889.68				154	(INCLUDES 7 BEARDS)			1		MAJ.	888.0	STA 75+86 LT. 55				
79+92	LT. 5	1	CB	PC-2				884.5									2		RT. 72	884.5	5 X 7 SERVICE TUNNEL				
81+00	LT. 5	1	CB	PC-2	7.28	D	891.26	891.24	891.0				95	(INCLUDES 7 BEARDS)			1		APRON	886.0	STA 73+95 LT. 55				
81+16	RT. 25	10	CB	PC-2	2.30	B	896.66	896.00	895.70				51									894.7			
81+81	RT. 12	11	CB	SAN D.K.			900.25	897.67	900.04		7.3	1											REMOVE CONE ADD 2' 8"		
82+42	RT. 25	12	CB	PC-2			901.75	897.87	901.75		-7.2	1											REMOVE CONE ADD 4' 0"		
82+20	RT. 25	13	CB	PC-2	5.42	B	900.11	900.5	900.0				306								9	892.0			
82+07	RT. 25	14	SD	PC-2																			REMOVE		
82+07	RT. 25	15	SD	PC-2	6.50	D	912.11	911.0	913.19		+9		157								11	905.5			
82+07	RT. 25	16	SD	PC-2	3.91	B	918.56	918.00	918.88				44								16	913.5			
82+07	RT. 25	17	SD	PC-2			918.71	918.36	916.45		-0.9												REMOVE RINGS & 4" OF		
82+07	RT. 25	18	SD	PC-2			918.71	918.36	916.45				23								15	912.0			
82+07	RT. 25	19	SD	PC-2	6.00	B	919.61	919.54	920.90		U.K. L.A.V.C.		30								19	913.24			
82+07	RT. 25	20	SD	PC-2	4.50	B	921.11	921.03	916.1		-0.3		67								16	913.5			
82+07	RT. 27						922.26	922.58																	
15+74	RT. 25	1	CB	PC-2		A	936.33	935.57	936.39		6.3	1											REMOVE RING & F&I.		
13+15	RT. 25	15	CB	PC-2	5.90	B	937.61	936.98	930.7				327								22	917.0			
14+15	RT. 25	16	CB	PC-2	2.40	B	937.64	936.98	934.0				44								25	933.7			
15+85	RT. 29	17	CB	PC-2		A	941.85	942.36	941.99		4.5	1											F&I. NEW CASTING		
17+95	RT. 26	28	CB	PC-2			942.55	941.47	942.43		+0.9														
16+26	RT. 27		CB	PC-2			942.02	941.06	942.12		6.7														
20+75	RT. 25	30	CB	PC-2			939.33	938.16	939.39		+1.2														
21+55	RT. 21.5	31	CB	PC-2	2.40	B	938.47	937.81	934.87				43								37	934.44			
21+55	RT. 21.5	32	CB	PC-2	3.40	B	938.47	937.81	934.44				408								33A	930.66			
23+54	RT. 20	33	CB	PC-2			936.43	936.28	936.03		-0.2														
25+62	LT. 21.5	33A	CB	PC-2	3.40	B	934.60	934.03	930.86				112								35	929.61			
25+87	RT. 19	34	MH	PC-2			934.38	934.68	934.00		6.2	1													
26+75	RT. 21.5	35	CB	PC-2	2.90	B	933.61	932.34	929.61												37	929.0			
26+75	RT. 21.5	35	CB	PC-2	2.70	B	933.60	932.34	930.22				43	64							35	929.61			
27+36	RT. 23	37	CB	PC-2	3.20		932.82	934.22	932.84	929.0	2.5	1													
28+15	RT. 20	38	MH	PC-2			931.13	932.04	930.73		5.2	1											REMOVE 2' 8" SECTION		
30+74	RT. 25	39	CB	PC-2			920.38																		
30+81	RT. 23	40	MH	PC-2			921.55																		
30+85	RT. 20	41	CB	PC-2			921.06																		
30+95	RT. 21	42	MH	PC-2			921.57																		
30+97	RT. 21	43	MH	PC-2			921.05																		
TOTAL										4.3	50.7	8	2215	366			104'	5							

A = RING CASTING, M.H.D. NO. 700-7, COVER CASTING NO. 712 (INCLUDED WITH STRUCTURE, NOT SEPARATE PAY ITEM.)	CATCH BASINS + MANHOLES	RC-2, DETAIL ON SHEET NO. 4
B = NEENAH INLET FRAME, GRATE, C 30 BOX R3067 OR EQUAL (INCLUDED WITH STRUCTURE, NOT SEPARATE PAY ITEM.)		RC-2H, DETAIL ON SHEET NO. 4
C = NEENAH INLET FRAME, GRATE, R-3516 OR EQUAL (INCLUDED WITH STRUCTURE, NOT SEPARATE PAY ITEM.)		LP4, MHD STD. PLATE NO. 4018C
D = GRATE FRAME CASTING, M.H.D. NO. 770, FLANGE FRAME CASTING NO. 771, COVER CASTING NO. 712 (INCL. WITH STRUCT., NOT SEP. PAY ITEM)		H, MHD STD. PLATE NO. 4006H
E = RING CASTING, M.H.D. NO. 790-2, COVER CASTING NO. 712 (INCLUDED WITH STRUCTURE, NOT SEPARATE PAY ITEM.)		A OR F MHD STD. PLATE NO. 4000G OR 4005I

STANDARD DETAIL PLATES

[illegible]

**ASBUILT PLAN
CONFORMING TO
CONST. RECORDS**

DONE BY:

DATE:

CLEARING AND GRUBBING CHART

CLEARING AND GRODDING CHART				
STATION	LOCATION	TREE TYPE	CLEAR	GRUB
77+01	LT 7'	6" WILLOW	5	5
77+02	RT 24'	8" WILLOW	1	1
79+75	RT 29'	6" TW WILLOW	2	1
17+11	LT 31'	10" ELM	1	1
17+19	LT 21'	6" PINE	1	1
17+68	LT 24'	14" ELM	1	1
17+91	LT 25'	18" ELM	1	1
19+23	LT 26'	10" OAK	1	1
19+61	LT 31'	24" OAK	1	1
20+00	LT 31'	10" OAK	1	1
28+29	RT 30+	6" TRIP POP	3	1

98+15	LT 54'	9" PINE	1	1
98+55	LT 47'	6" ASH	1	1
98+55	LT 51'	5" ASH	1	1
98+77	LT 43'	48" COTT	1	1
99+11	LT 49'	8" ELM	1	1
99+33	LT 34'	8" BEECH	1	1
99+59	LT 46'	14" ELM	1	1
99+60	LT 34'	4" ELM	1	1
99+73	LT 47'	6" ELM	1	1
99+82	LT 40'	6" TWN. ELM	2	1
102+50	LT 24'	5" ELM	1	1
		TOTAL	30	26

CO. RD. "C"

VICTORIA ST

DONE BY : WILLIAM J. SKALLY
DATE : 1-4-74
HAROLD BETH PETERSON

S.A.P. NO. 62-623-10

MICROFILMED
RAMSEY CO. ENGR SHEET NO. 3 OF 29 SHEETS

DRAINAGE CHART - VICTORIA STREET

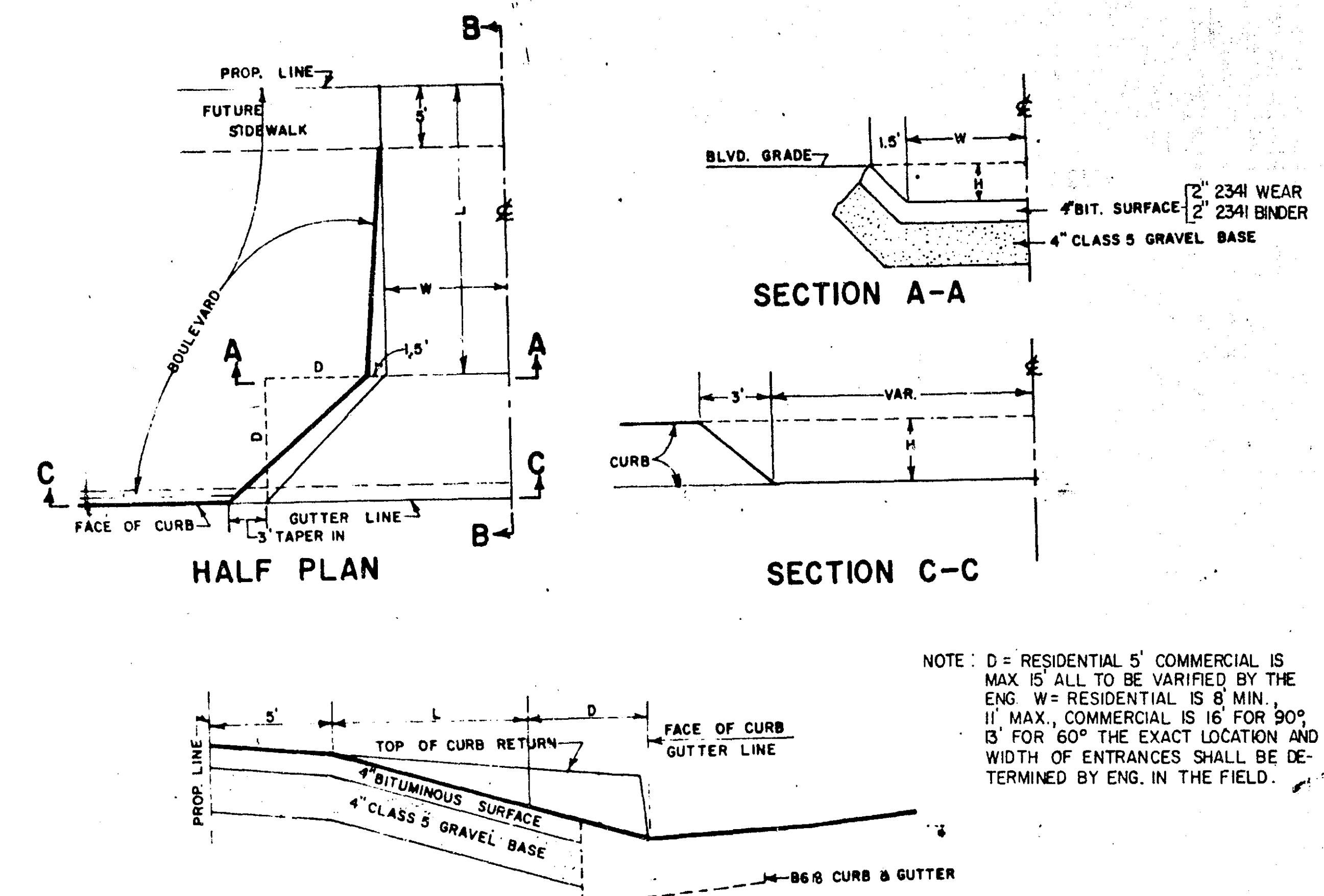
STATION	LOCATION	NO	TYPE	DESIGN	CONST HEIGHT LIN. FT.	CASTING ASSEMBLY	ELEVATION			ADJUST CASTING ASSEMBLY	RECONSTRUCT C.B. OR M.H. LIN. FT.	INSTALL CASTING ASSEMBLY	INSTALL CONCRETE PIPE SEWER LINEAR FEET			MOVING M.H. OR C.B.	REMOVE PIPE SEWER LIN. FT.	APRON	CLASS	DRAINS TO		REMARK
							PROFILE	ORIGINAL GRATE OR RING	NEW GRATE OR RING				15"	18"	8" V.C.P.					STRUCTURE NO.	INV. EL.	
98+88	LT. 22	43	NH				892.3	891.82														
100+05	LT. 21.5	43	CB	RC-2	3.3	B	894.25		893.60	890.28			61						I	APRON	888.0	RT. 54 STA 100+05
102+34	LT. 17	44	NH				898.17	896.80	897.87				6.50	1								
103+36	LT. 6	45	NH				899.60	897.05	899.49				6.80	1								
104+16	LT. 3	46	NH				899.72	896.32	899.47				8.00	1								
105+06	LT. 13	47	NH				898.63	895.21	898.41				8.10	1								
106+75	LT. 24	48	CB	LT-4	3.9	E	895.78		895.78	891.78			48							49		
106+75	T. 24	49	CB	LT-4	4.6	E	895.78		895.78	891.12			16						I	APRON	888.0	RT. 44 STA 106+75
110+52	LT. 42	50	NH	LT-4			896.14	894.16														
110+55	LT. 30	51	NH	TILE																		
110+67	LT. 19	52	NH	LT-4			895.98	894.86	895.72													
110+75	LT. 23.5	53	CB	RC-2	4.8	B	895.92		895.26	890.6			13						I	APRON	890.0	RT. 42 STA 110+61
111+0	LT. 37	54	CB	APRON						892.8			57							53	890.6	
111+40	RT. 23.5	55	CB	RC-2	3.2	B	896.33		895.67	892.14			106	23					I	APRONS	892.0	RT. 50 STA 111+35
111+53	LT. 38	56	CB	APRON						892.92			65						I	56	892.24	
112+68	LT. 28	59	NH					900.81														
3+50±	CROSSDRAIN UNDER CHURCH INT.												48						2			
TOTALS													97	4	279	158			7			

SANITARY SEWER

105+10 LT. 30± 47A MH A OR F 10.7 G 898.50 898.70 888.0 20 47 887.53

* NOTE: 15" X 106" R.C.P. SHALL BE BULKHEADED AT 112+46 RT. 28'
G: SEE SPECIAL PROVISIONS

BITUMINOUS ENTRANCE DETAILS

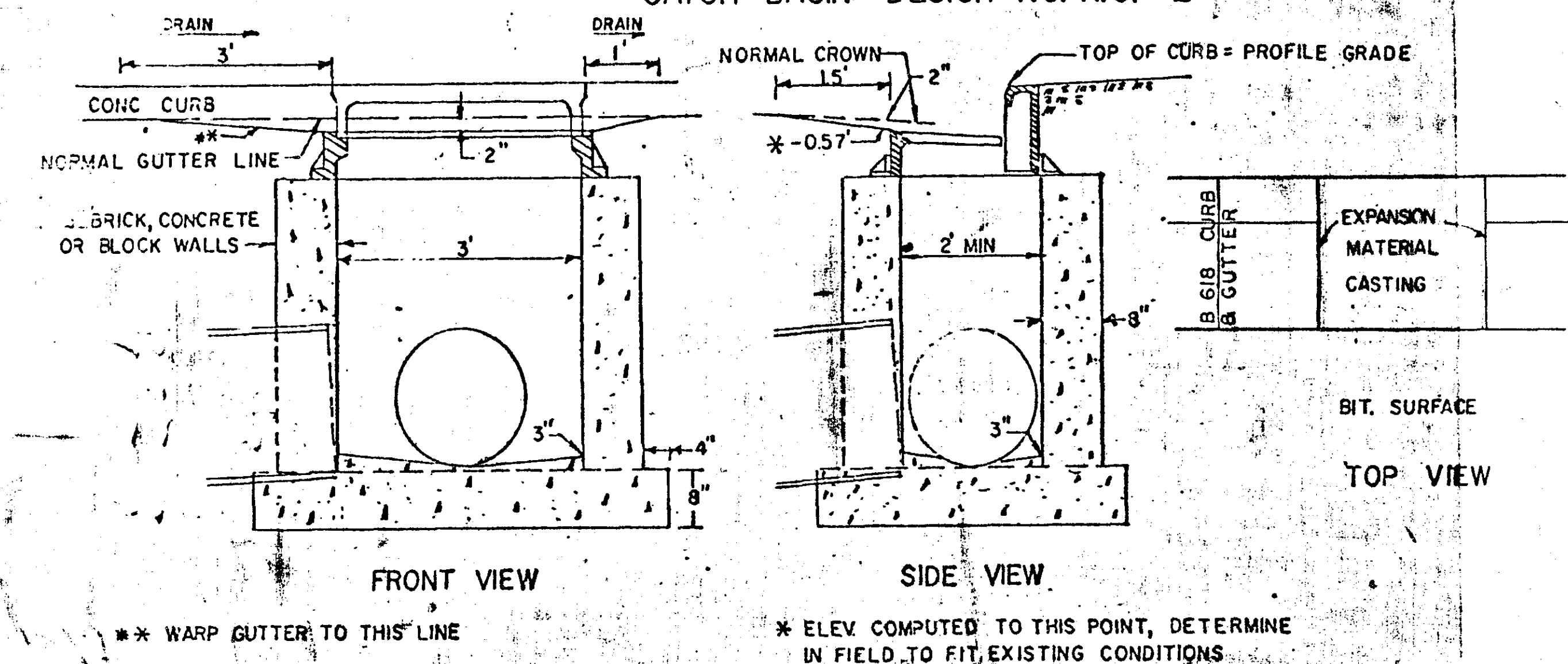


ASBUILT PLAN CONFORMING TO CONST. RECORDS

DONE BY:
DATE:

SECTION B-B

CATCH BASIN DESIGN NO. RC-2

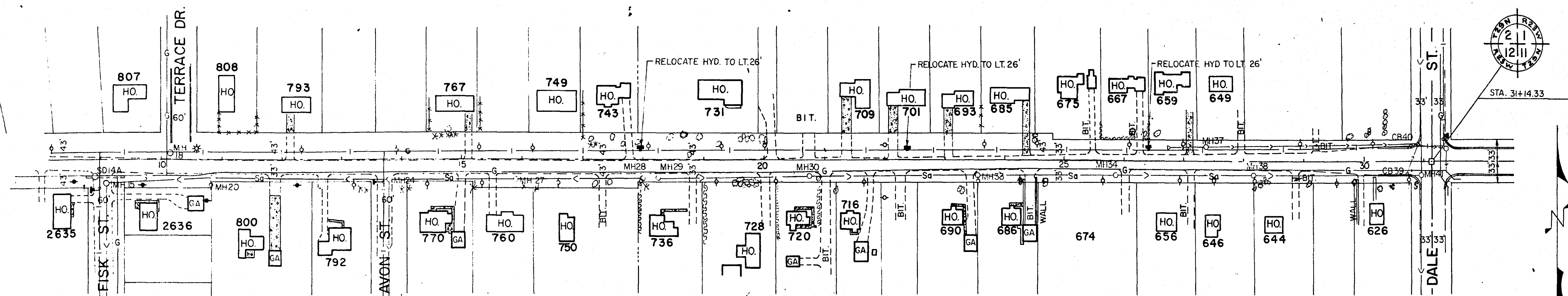


CATCH BASIN DESIGN NO. RC-2M

THE BLOCK, BRICK, OR CONG. CONSTRUCTION SHALL BE THE SAME AS THE RC-2.
THE FRAME & GRATE SHALL BE NEENAH R-354 OR EQUIV.

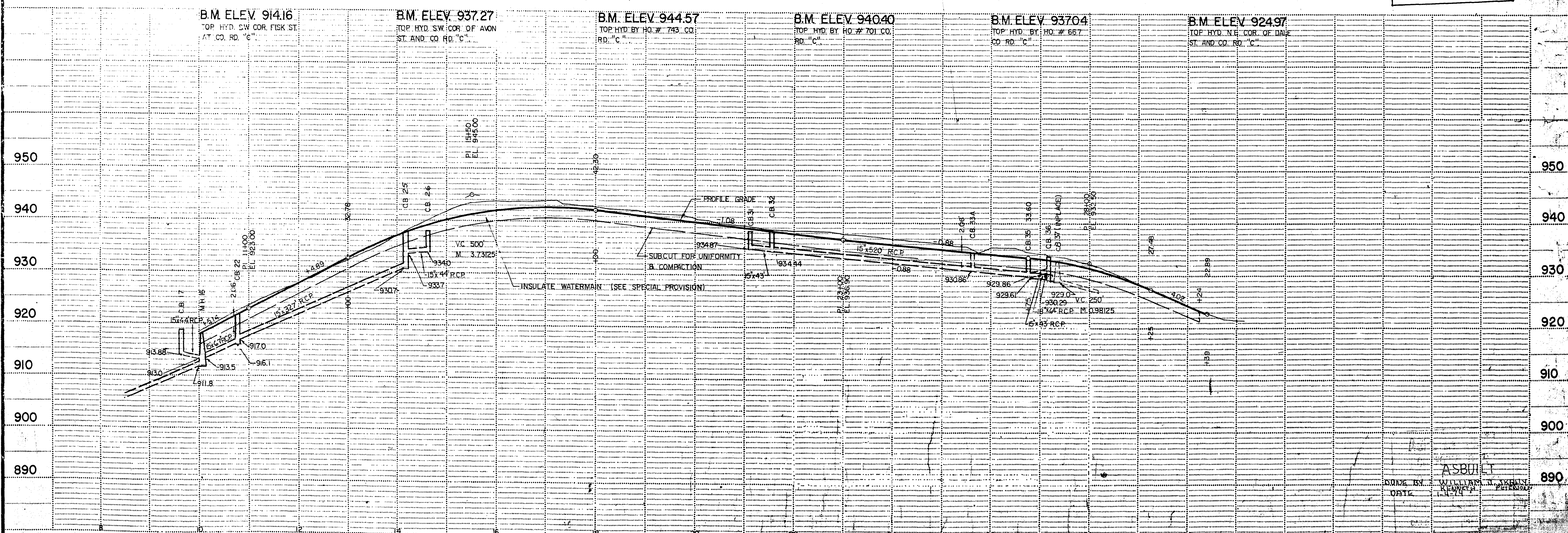
ASBUILT

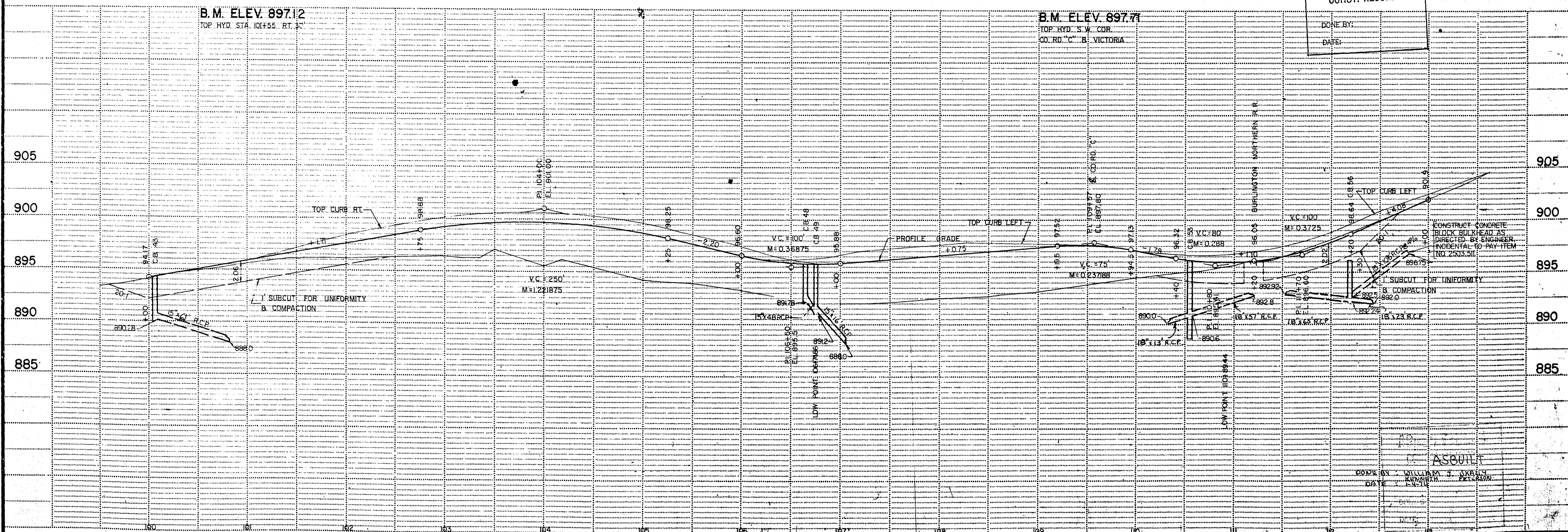
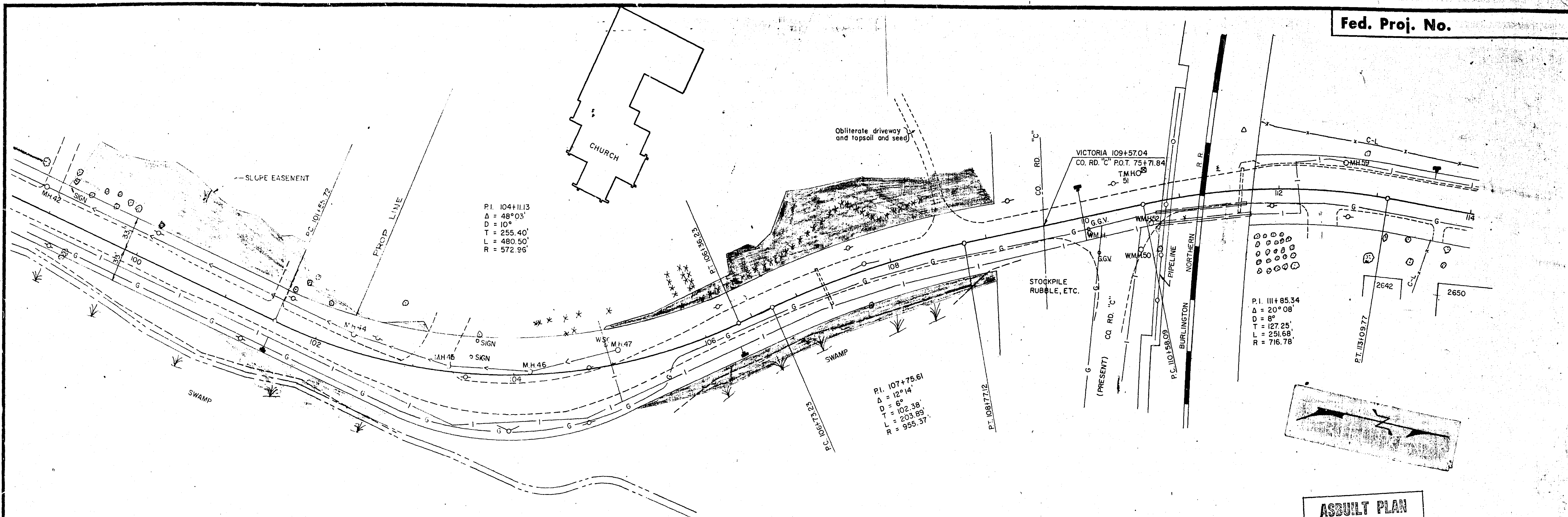
DONE BY: WILLIAM J. SKALLY
DATE: 1-4-74



ASBUILT PLAN
CONFORMING TO
CONST. RECORDS

DONE BY:
DATE:





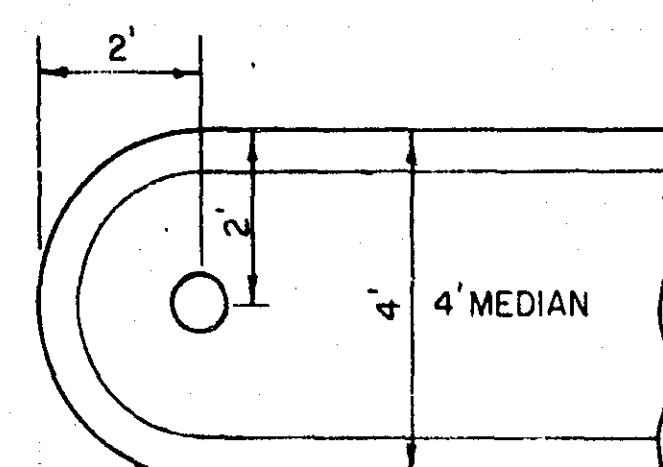
NOTE: ALL BOULEVARDS AND SLOPES SHALL BE SODDED EXCEPT THE SLOPES ON CO. RD. "C" BETWEEN STA. 59+58 AND 87+50 AND THE SLOPES ON VICTORIA ST. WHICH SHALL BE SEEDED & MULCHED.

OXFORD ST.

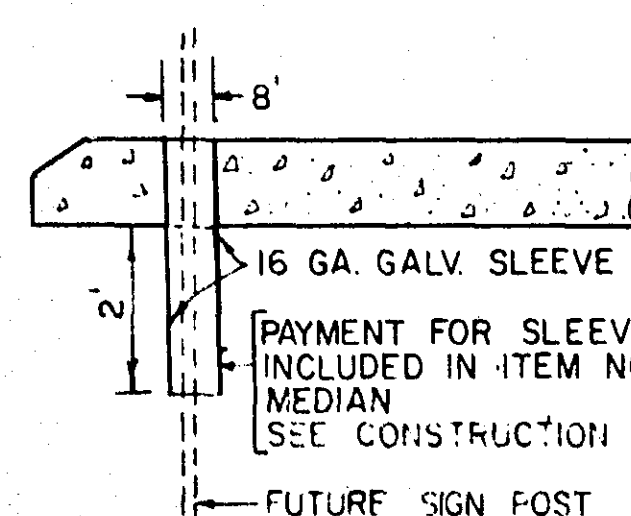
BEGIN PROJ.
STA. 59+68

MATCH TO EXISTING
CURB & GUTTER

PC. 60+94.00
P.L. = 63+80.29
 $\Delta = 34^\circ 28'$
D = 6°
T = 294.29
L = 574.58
R = 954.93



• DENOTES MEDIAN HOLES



PLACEMENT OF MEDIAN HOLES

BEGIN PLATE BEAM
BARRIER STA. 65+41,
DESIGN B

NOTE: ① DENOTES 25' TWISTED END
TREATMENT DESIGN B SEE STANDARD
PLATE 8319

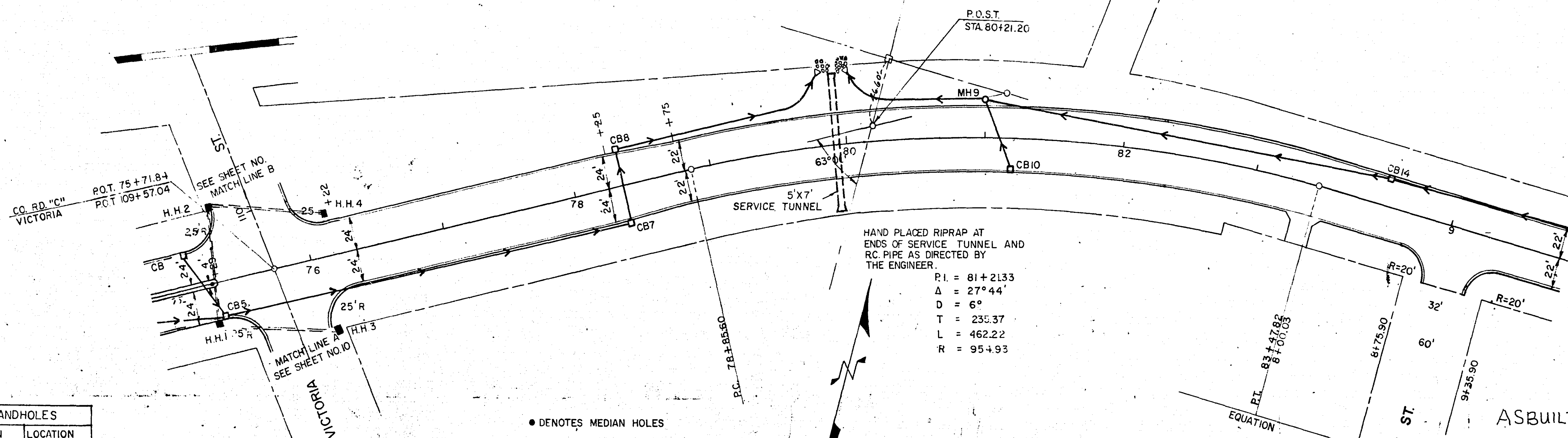
P.L. = 71+92.52
 $\Delta = 56^\circ 06'$
D = 10°
T = 305.29
L = 561.00
R = 572.96

EXISTING BRIDGE

END PLATE BEAM BARRIER
STA. 70+40, DESIGN B

END PLATE BEAM
BARRIER STA. 74+00, DESIGN A

PLACE PLATE BEAM BARRIER, RIGHT 30'



F&I HANDHOLES		
NO.	STATION	LOCATION
1	75+25	RT. 28.5'
2	75+35	LT. 55'
3	76+10	RT. 55'
4	76+16	LT. 26.5'

• DENOTES MEDIAN HOLES

HAND PLACED RIPRAP AT
ENDS OF SERVICE TUNNEL AND
R.C. PIPE AS DIRECTED BY
THE ENGINEER.

P.L. = 81+21.33
 $\Delta = 27^\circ 44'$
D = 6°
T = 235.37
L = 462.22
R = 954.93

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS

DONE BY:
DATE:

ASBUILT

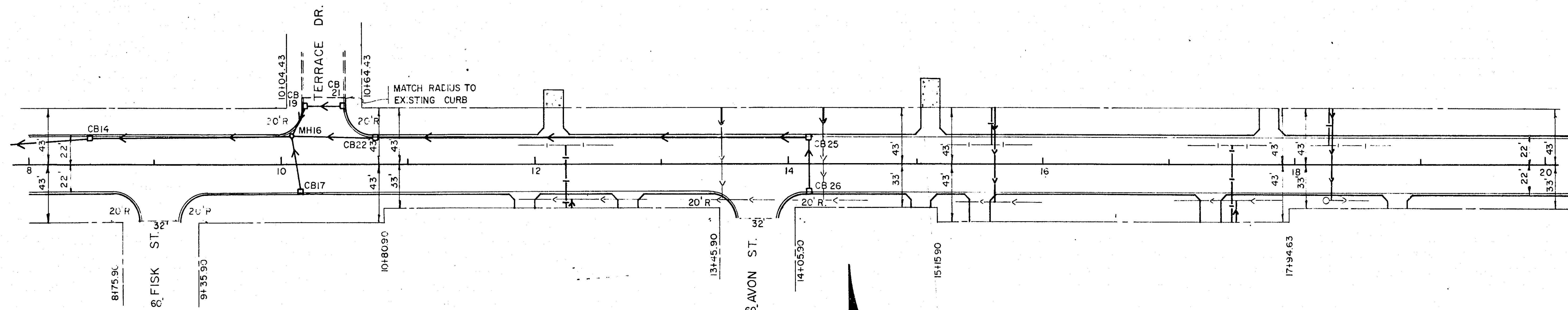
DONE BY: WILLIAM J. SKALLY
KENNETH PETERSON
DATE: 1-4-74

CONSTRUCTION PLAN

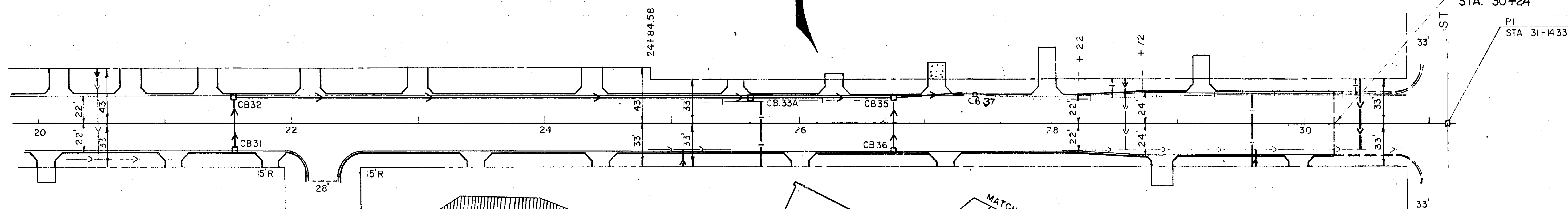
S.A.P. NO. 62-623-10

MICROFILMED
RAMSEY CO. ENGR.

SHEET 10 OF 29 SHEETS



CO. RD. "C"
62-623-10

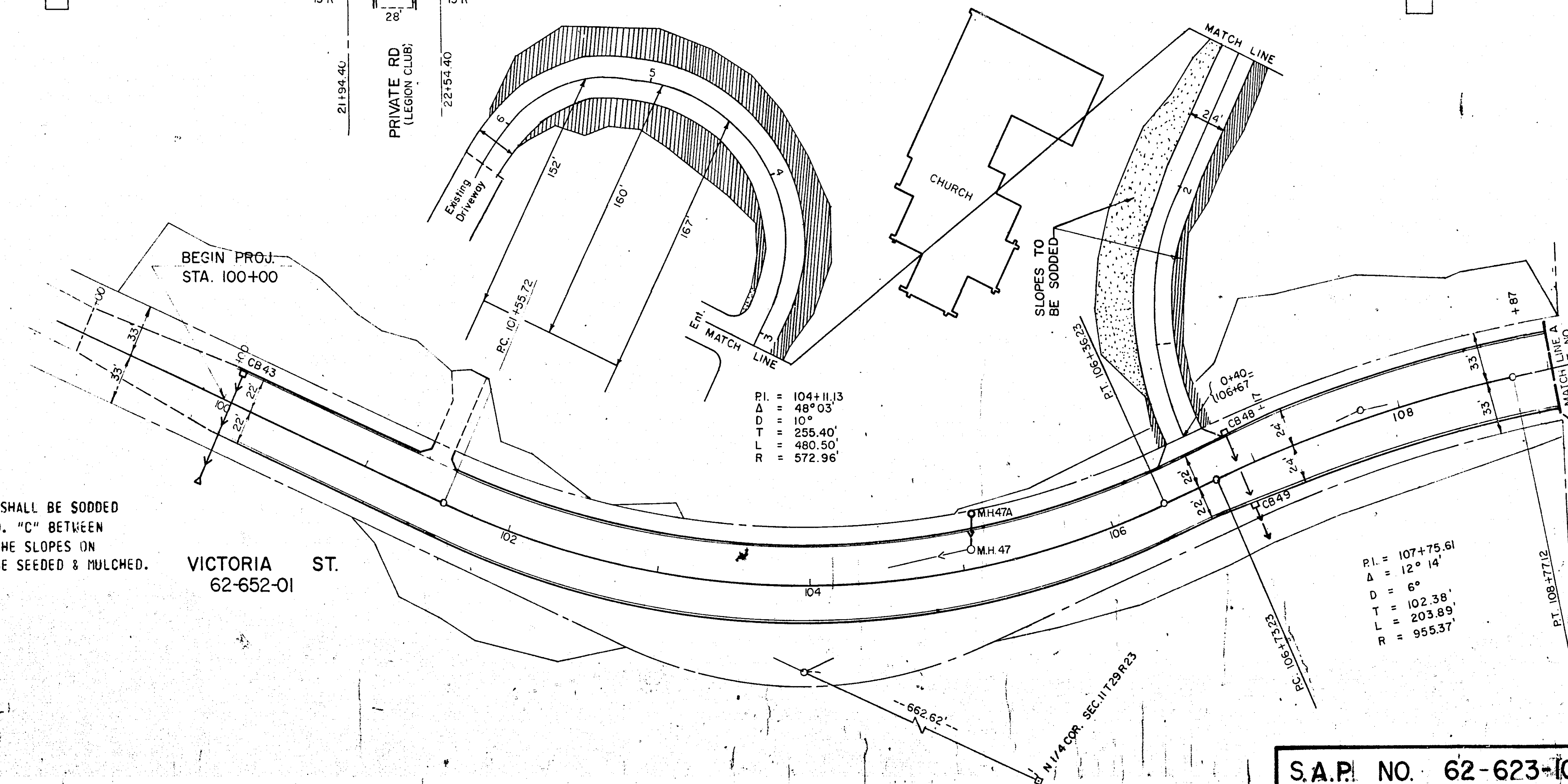


END PROJ.
STA. 30+24

PI
STA 31+14.33

ASBUILT PLAN
CONFORMING TO
CONST. RECORDS

DONE BY:
DATE:



NOTE: ALL BOULEVARDS AND SLOPES SHALL BE SODDED
EXCEPT THE SLOPES ON CO. RD. "C" BETWEEN
STA. 59+68 AND 82+50 AND THE SLOPES ON
VICTORIA ST. WHICH SHALL BE SEEDED & MULCHED.

VICTORIA ST.
62-652-01

PI. = 104+11.13
Δ = 48° 03'
D = 10°
T = 255.40'
L = 480.50'
R = 572.96'

PI. = 107+75.61
Δ = 12° 14'
D = 6°
T = 102.38'
L = 203.89'
R = 955.37'

EXCEPTION
109+03 TO
110+13

CO. RD.

VICTORIA POT 109+57.04
CO. RD C P.C.T. 75+71.84

END PROJ.
STA. 112+30

NOTE: CALL AMERICAN OIL PIPELINE COMPANY AT
TELEPHONE NO. 788-9781 BEFORE DIGGING.

ASBUILT
DONE BY: WILLIAM J. SKALLY
DATE: KENNETH PETERSON
1-4-74

CONSTRUCTION PLAN