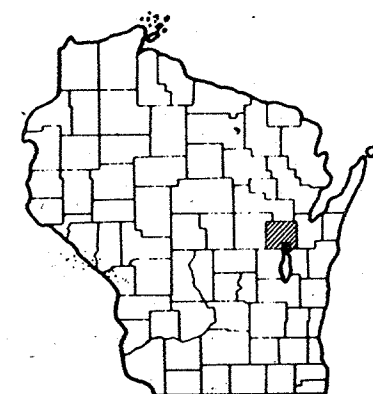


00 "5"

Index of Sheets

Sheet No	1	Title
Sheet No	2-2.19	Typical Sections and Details
Sheet No	3-3.1	Estimate of Quantities
Sheet No	3A	Miscellaneous Quantities
Sheet No	4	Right of Way Plat
Sheet No	5-5.11	Plan and Profile
Sheet No	6-6.7	Standard Detail Drawings
Sheet No		Standard Sign Plates
Sheet No		Structure Plans
Sheet No		Computer Earthwork Data
Sheet No	9-9.13	Check Sheets

TOTAL SHEETS = 59



Design Designation

A.D.T. 1982	= 14,500
A.D.T. 2002	= 16,500
D.H.V. 2002	= 1,815
D.	= 55%
T.	= 3.5%
V.	= 40 M.P.H

Conventional Signs

County Line	---
Township or Range Line	----
Section Line	-----
Corporate or City Limits	
Property line	-----
Lot Line	-----
Existing Right of Way Line	-----
New Right of Way Line	-----
Base or Survey Line	-----
Slope Intercept	-----
Existing Roadway or Private Entrance	-----
Facility To Be Removed	-----

Caution Symbol (Combustible fluids under pressure)	
Railroads	+++++
Fence	---X---X---
Culverts in Place	-----
Culverts Required	-----
Power Pole	-----
Telephone or Telegraph Pole	-----
Right of Way Markers	-----
Marsh	-----
Wooded Area	-----
Grade Elevation	-----

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

C.T.H. "00" INTERSECTION

CITY OF APPLETON

S.T.H. "47"

OUTAGAMIE COUNTY

NORTHLAND AVENUE, CITY OF APPLETON

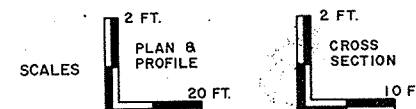
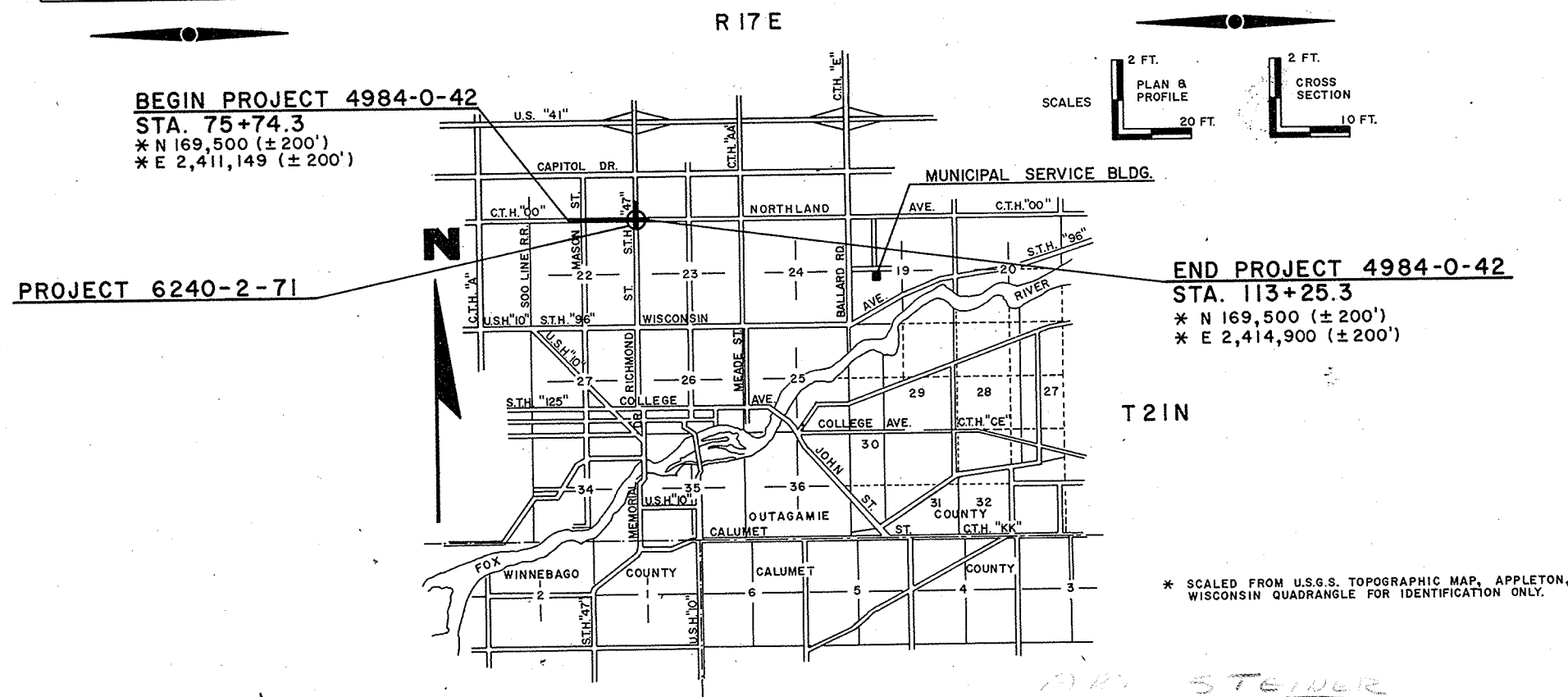
MASON STREET - S.T.H. "47"

C.T.H. "00"

OUTAGAMIE COUNTY

STATE PROJECT NUMBER
6240-2-71

STATE PROJECT NUMBER
4984-0-42

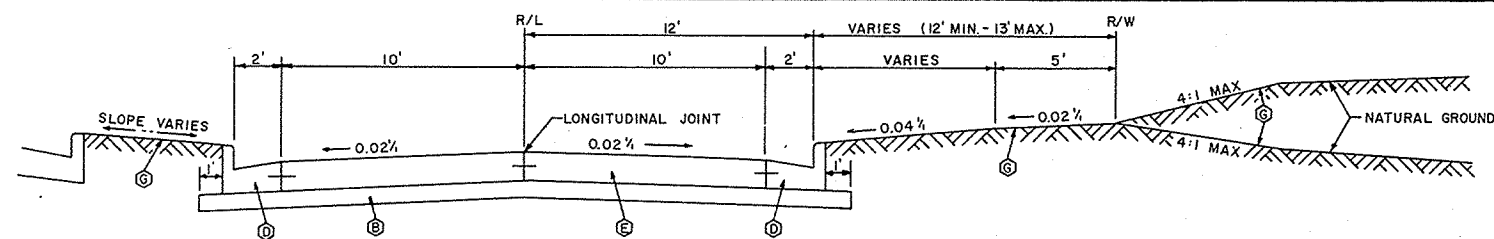


Layout
Scale 0 1 2 3 4 5000 FEET

Total Net Length of Centerline = 0.710 Mi. URBAN 4984-0-42
0.000 MI. 6240-2-71

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
4984-0-42	M 1201 (7)	I
6240-2-71	HES 0131(2)	I

PLANS AND GRADES WITHIN THE CITY OF APPLETON	
Approved: <i>RS</i>	(SIGNATURE OF OFFICIAL)
DATE 11/24/81	
APPROVED FOR OUTAGAMIE COUNTY	
Date 11/30/81	<i>Mark</i> Commissioner
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
Surveyor	District Checker
Designer	C.O. Checker <i>BJE</i>
District Supervisor	C.O. Coordinator <i>SA PER</i>
Approved	
Date 1/11/82	<i>CA</i> District Engineer
Date 1-26-82	<i>SA</i> Chief Traffic Engineer
Date 1-26-82	<i>SA</i> Chief Design Engineer
Approved	
Date 1-26-82	<i>E.J. Byrkit</i> District Administrator
U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION REGION 5 WISCONSIN DIVISION	
Approved	
Date	Division Administrator



PROPOSED TYPICAL SECTION
NORTHLAND AVENUE SERVICE ROAD
(MASON STREET TO RICHMOND STREET)

- (A) - 9" NON-REINFORCED CONCRETE PAVEMENT
- (B) - 4" CRUSHED AGGREGATE BASE COURSE
- (C) - 16" CURB & GUTTER, TYPE "A"
- (D) - 30" CURB & GUTTER, TYPE "A"
- (E) - 7" NON-REINFORCED CONCRETE PAVEMENT
- (F) - 4" TOPSOIL, FERTILIZE AND SOD (4" C.S.W. WHERE SHOWN ON PLANS)
- (G) - 4" TOPSOIL, FERTILIZE, SEED AND MULCH
- (H) - 1" TOPSOIL, FERTILIZE, SEED AND MULCH

STATE PROJECT NUMBER	SHEET NO.
4984-0-42 & 6240-2-71	2
TYPICAL SECTIONS	

GENERAL NOTES

TRANSVERSE CONTRACTION JOINTS SHALL BE SPACED EVERY 20 FEET AND SKEWED. ALL NEW BITUMINOUS SURFACE SHALL BE 3" THICK EXCEPT WHERE OTHERWISE NOTED ON PLANS.

ALL CURB & GUTTER RADII SHOWN ARE TO FACE OF CURB.

THE REMOVAL OF ASPHALT WIDENING LANES ON NORTHLAND AVENUE, AND ASPHALT DRIVEWAYS, WILL BE PAID AS UNCLASSIFIED EXCAVATION.

THE REMOVAL OF CONCRETE DRIVEWAYS WILL BE PAID AS CONCRETE PAVEMENT REMOVAL.

CONCRETE CURB BEHIND INLETS SHALL HAVE 2 - #4 X 8' LONG REINFORCING BARS, 6" O.C., PLACED 3" FROM TOP OF CURB AND CENTERED ON INLET. COST OF FURNISHING AND INSTALLING BARS SHALL BE INCLUDED IN BID ITEM FOR CURB & GUTTER. (SEE DETAIL "B")

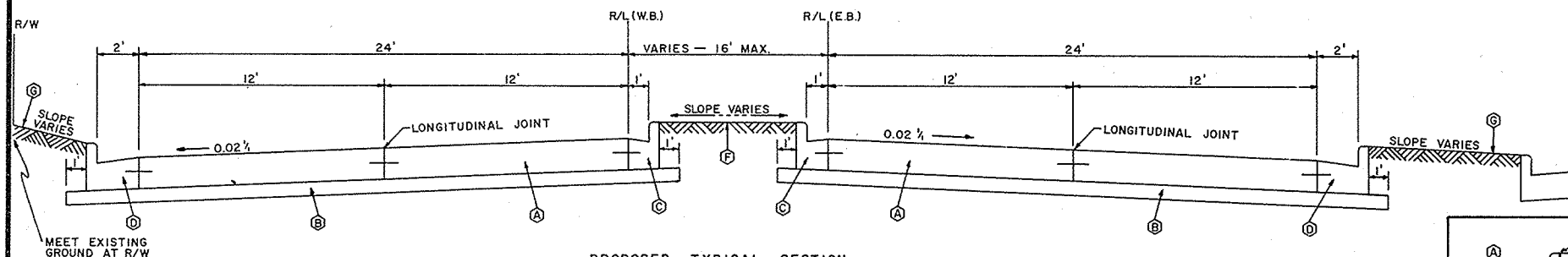
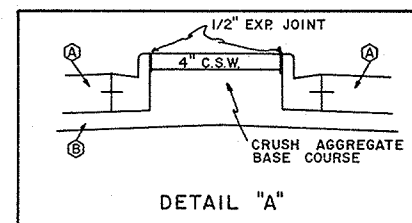
WHERE PLANS SHOW NEW 4" C.S.W. IN MEDIAN AREAS CRUSHED AGGREGATE BASE COURSE SHALL EXTEND TO BOTTOM OF 4" C.S.W. (SEE DETAIL "A")

PRIVATE UTILITY COMPANIES SHALL ADJUST OR MOVE ALL PRIVATELY OWNED FACILITIES TO FIT THE NEW CONSTRUCTION (POWER POLES, TELEPHONE POLES, GAS MANHOLES, TELEPHONE MANHOLES, ETC.)

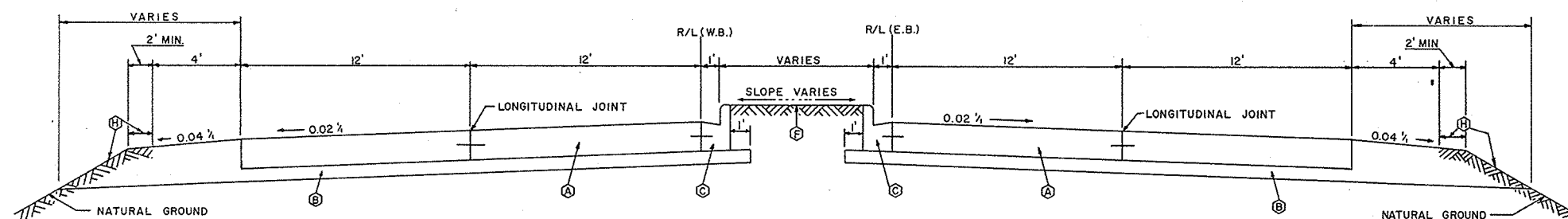
THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

WHEN THE QUANTITY OF ITEMS OF BASE OR SURFACE COURSE IS MEASURED FOR PAYMENT BY THE TON OR BY THE CUBIC YARD, THE DEPTH OR THICKNESS OF THE COURSE SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF MATERIAL AS DIRECTED BY THE ENGINEER.

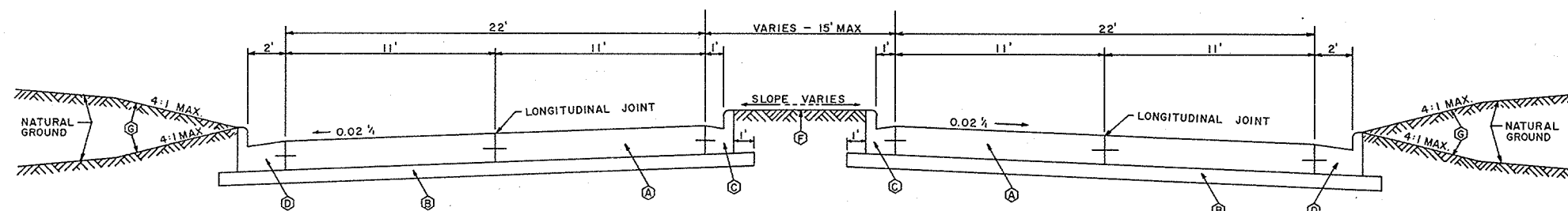
ALL LONGITUDINAL AND TRANSVERSE JOINTS REQUIRING SEALING SHALL BE SEALED IN ACCORDANCE WITH SUB-SECTION 409.2.5.2 OF THE STANDARD SPECIFICATIONS.



PROPOSED TYPICAL SECTION
NORTHLAND AVENUE
(MASON ST. TO STA. 110+55.3)



PROPOSED TYPICAL SECTION
NORTHLAND AVENUE
(STA. 110+55.3 TO STA. 113+05.3)



PROPOSED TYPICAL SECTION
RICHMOND STREET

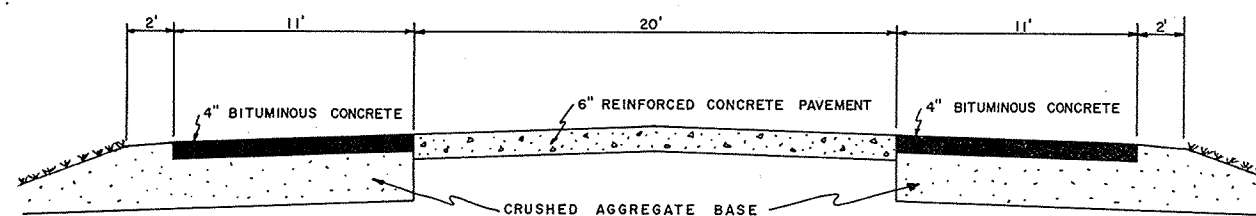
UTILITIES WITHIN PROJECT LIMITS

STORM SEWERS & SANITARY SEWERS	APPLETON ENGINEERING DEPARTMENT MR. TOM HARP, CITY ENGINEER 200 N. APPLETON ST. APPLETON, WISCONSIN 54911	735-6474
WATER	APPLETON WATER DEPARTMENT MR. RUSS FULCER, DISTRIBUTION SUPERINTENDENT 125 N. WALNUT STREET APPLETON, WISCONSIN 54911	733-2311
ELECTRIC	WISCONSIN ELECTRIC POWER COMPANY MR. JACK ARTER, DIVISION ENGINEER 807 S. ONEIDA ST. APPLETON, WISCONSIN 54911	735-8455
GAS	WISCONSIN NATURAL GAS COMPANY MR. JAMES GUNDERSON, SUPERINTENDENT OF OPERATIONS 800 N. LYNDALE DRIVE APPLETON, WISCONSIN 54911	735-8351
TELEPHONE	WISCONSIN TELEPHONE COMPANY MR. ROGER POST, ENGINEERING SUPERINTENDENT 221 W. WASHINGTON STREET APPLETON, WISCONSIN 54911 CABLE LOCATE 1-800-242-8511 (TOLL FREE)	

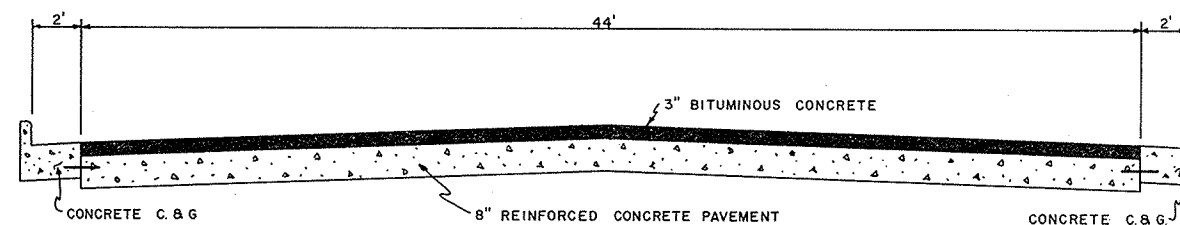
STANDARD DETAIL DRAWINGS

- 886-2 - MANHOLES - TYPE 1
- 8C2-3 - INLETS - TYPE 3
- 8D1-5 - CONCRETE CURB, C.&G., OR INTEGRAL CURB
- 8D5-6 - CURB RAMPS
- 9B2-2 - METAL, FIBER AND PVC CONDUIT
- 13C1-5 - CONCRETE PAVEMENT LONGITUDINAL JOINTS
- 13C3-2 - NON-REINFORCED CONC. PVT. (20' SKEWED TRANSVERSE JOINTS WITH POURED TYPE SEALER)
- 15C1-7 - CONSTRUCTION BARRICADES AND STANDARD SIGNS.

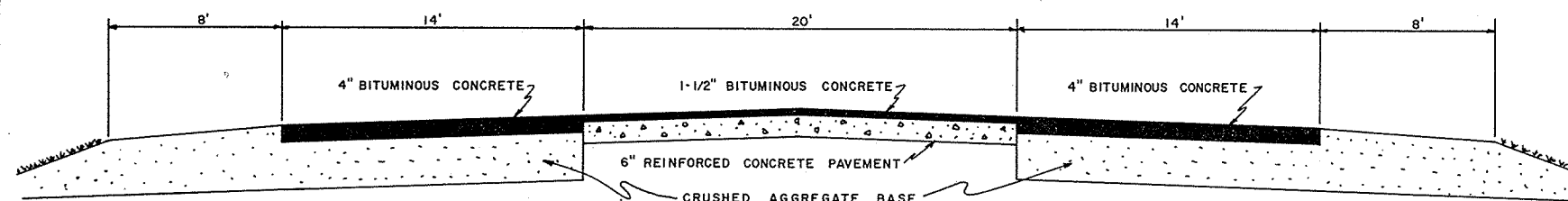
TYPICAL SECTIONS



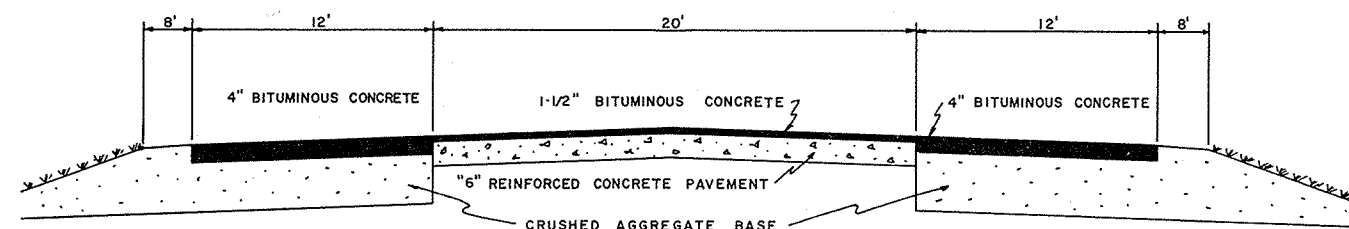
EXISTING TYPICAL SECTION
NORTHLAND AVENUE
(MASON TO RICHMOND)



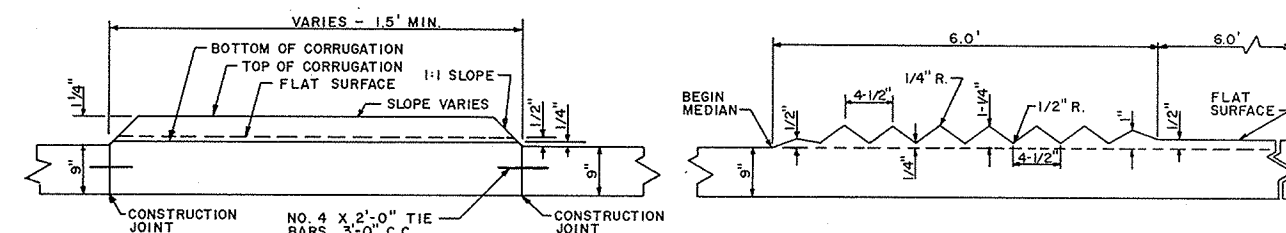
EXISTING TYPICAL SECTION
RICHMOND STREET
(STA. 5+68.7 TO NORTHLAND AVE.)



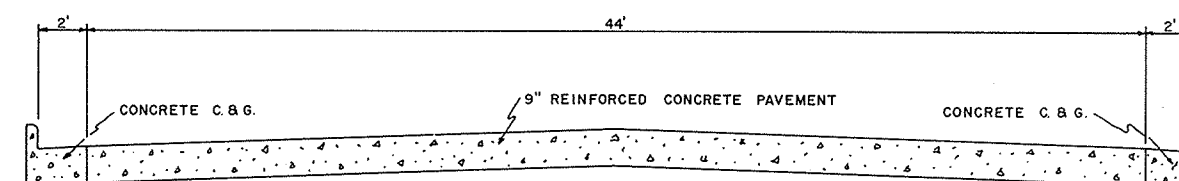
EXISTING TYPICAL SECTION
NORTHLAND AVENUE
(STA. 75+74.3 TO MASON ST.)



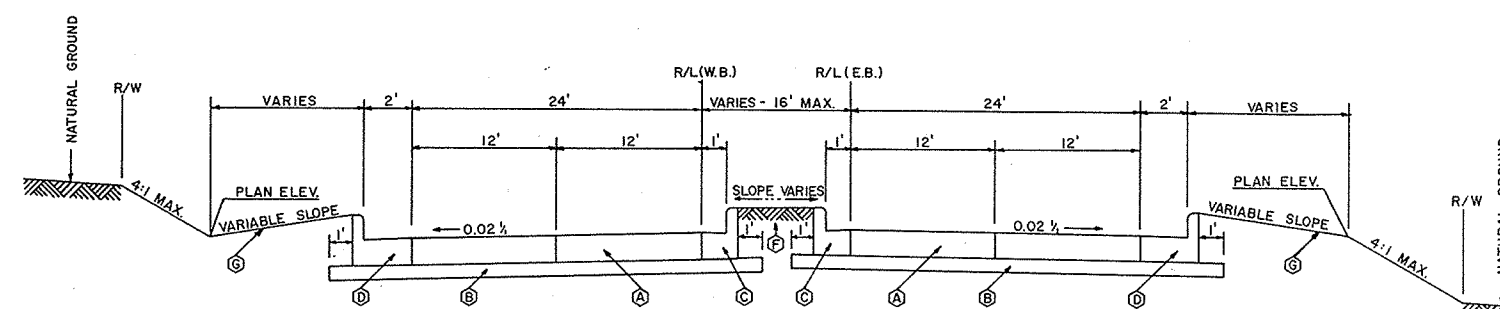
EXISTING TYPICAL SECTION
NORTHLAND AVENUE
(RICHMOND TO STA. 113+25.3)



PROPOSED CONCRETE CORRUGATED MEDIAN



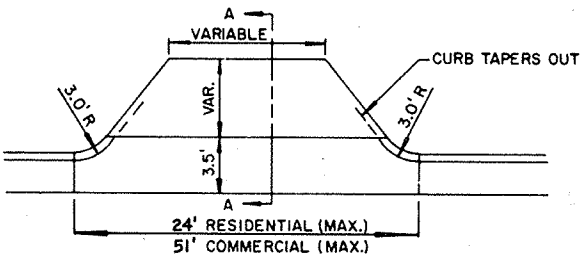
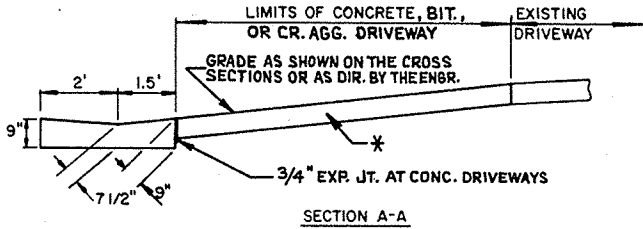
EXISTING TYPICAL SECTION
RICHMOND STREET
(NORTHLAND TO STA. 17+80.40)



PROPOSED TYPICAL SECTION
NORTHLAND AVENUE
(STA. 75+84.3 TO MASON ST.)

- (A) - 9" NON-REINFORCED CONCRETE PAVEMENT
- (B) - 4" CRUSHED AGGREGATE BASE COURSE
- (C) - 18" CURB & GUTTER, TYPE "A"
- (D) - 30" CURB & GUTTER, TYPE "A"
- (E) - 7" NON-REINFORCED CONCRETE PAVEMENT
- (F) - 4" TOPSOIL, FERTILIZE & SOD (4" C.S.W. WHERE SHOWN ON PLANS)
- (G) - 4" TOPSOIL, FERTILIZE, SEED AND MULCH

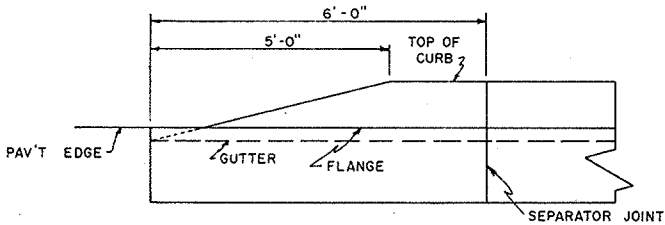
STATE PROJECT NUMBER	SHEET NO.
4984-0-42	2.2
CONSTRUCTION DETAILS	



TYPICAL DRIVEWAY

ALL EXPANSION JOINT MATERIAL SHALL BE 1" DEEPER THAN THE CONCRETE SLAB BEING PLACED.

* DRIVEWAYS SHALL BE RESTORED AS FOLLOWS:
 GRAVEL — 6" DEPTH CRUSHED AGGREGATE BASE COURSE.
 ASPHALT — 3" BITUMINOUS OVER 6" CRUSHED AGGREGATE BASE COURSE,
 EXCEPT WHERE 6" BITUMINOUS IS SHOWN ON PLANS IT SHALL BE PLACED ON SUBGRADE.
 CONCRETE — 6" DEPTH

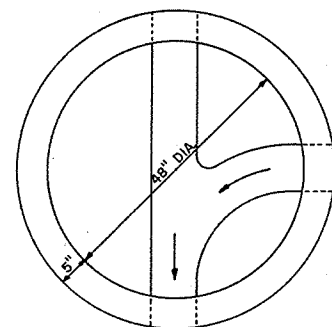
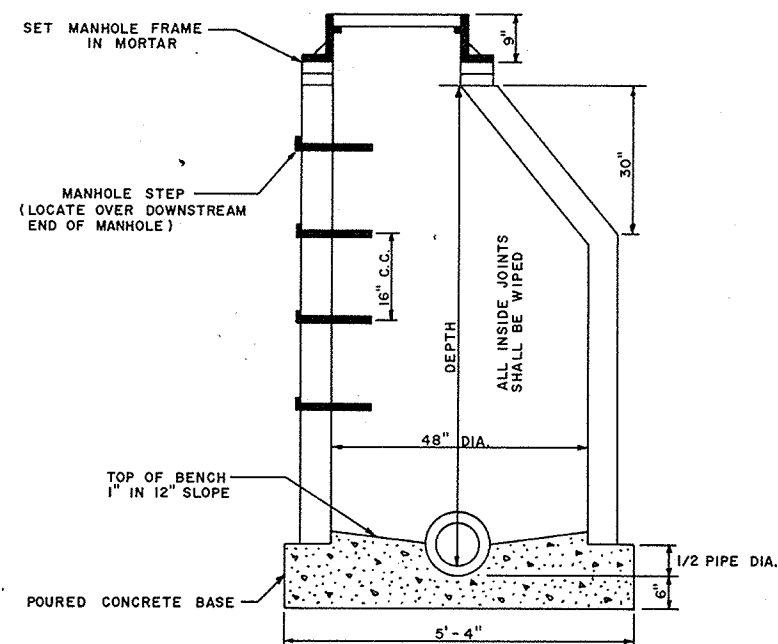


END SECTION-30" CURB & GUTTER
 (WHERE SHOWN ON PLANS)

GENERAL NOTES - SEWER CONSTRUCTION

- (1) SANITARY MANHOLE CASTINGS AND INLET FRAMES AND GRATES WILL BE FURNISHED BY THE CITY AND INSTALLED BY THE CONTRACTOR.
- (2) MANHOLES AND INLETS SHALL HAVE PRECAST CONCRETE GRADE RINGS (4" MIN. 8" MAX.) GRADE RINGS SHALL NOT PROTRUDE BEYOND THE OUTSIDE WALL OF THE STRUCTURE.
- (3) CONCRETE PIPE SHALL HAVE RUBBER GASKET JOINTS.
- (4) ALL INLETS AND MANHOLES SHALL BE PRECAST CONCRETE AND SHALL HAVE POURED BOTTOMS CONFORMING TO ASTM C-478 AND C-443.
- (5) CONCRETE BLOCK SHALL BE USED FOR MANHOLE CONSTRUCTION OVER SEWERS 24" IN DIAMETER OR GREATER UP TO A POINT 6" ABOVE THE TOP OF THE PIPE. PRECAST SECTIONS SHALL BE USED FOR THE BALANCE OF THE MANHOLE. 6" THICK CONCRETE BLOCK SHALL BE USED WITH MORTAR FILLED CORES AND OUTSIDE SURFACE PLASTERED WITH 1/4" OF MORTAR.

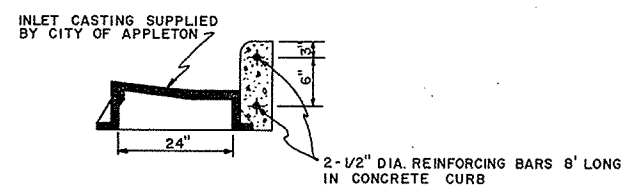
STATE PROJECT NUMBER		SHEET NO.
4984-0-42	& 6240-2-71	2.3
CONSTRUCTION DETAILS		



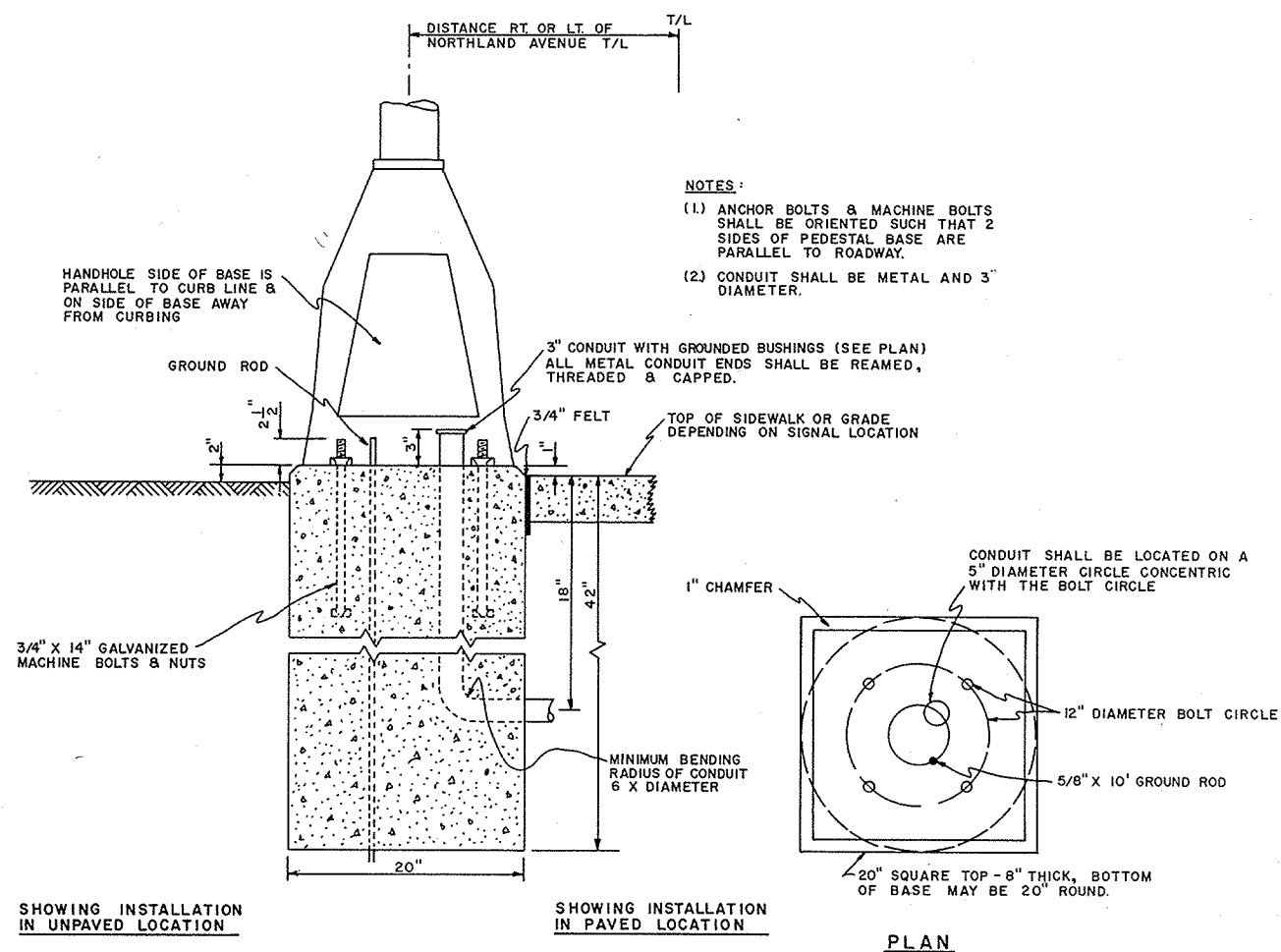
BREAK OFF PIPE AT TOP OF
BENCH AND AT INSIDE WALLS
SMOOTHLY AND NEATLY.

JOIN ALL INCOMING PIPES TO
MAIN SEWER AS SHOWN OR
SIMILARLY.

MANHOLE - TYPE I
SEE S.D.D. FOR ADDITIONAL INFORMATION



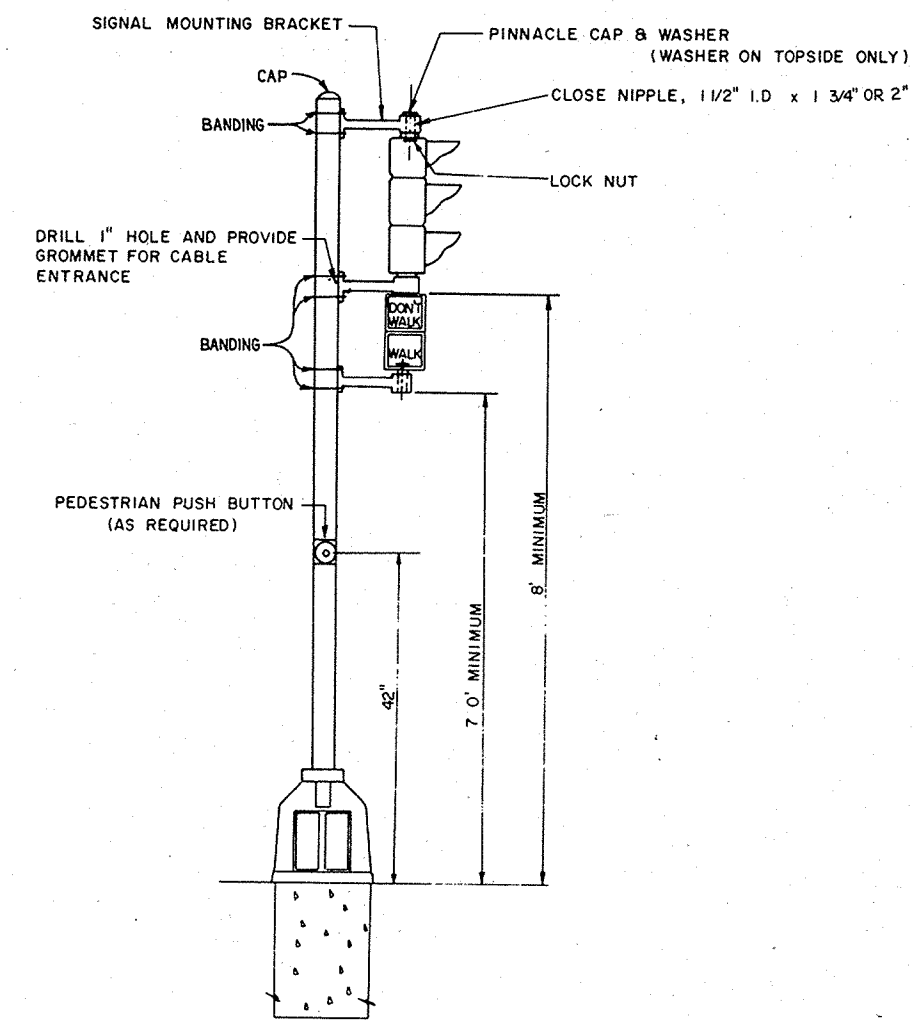
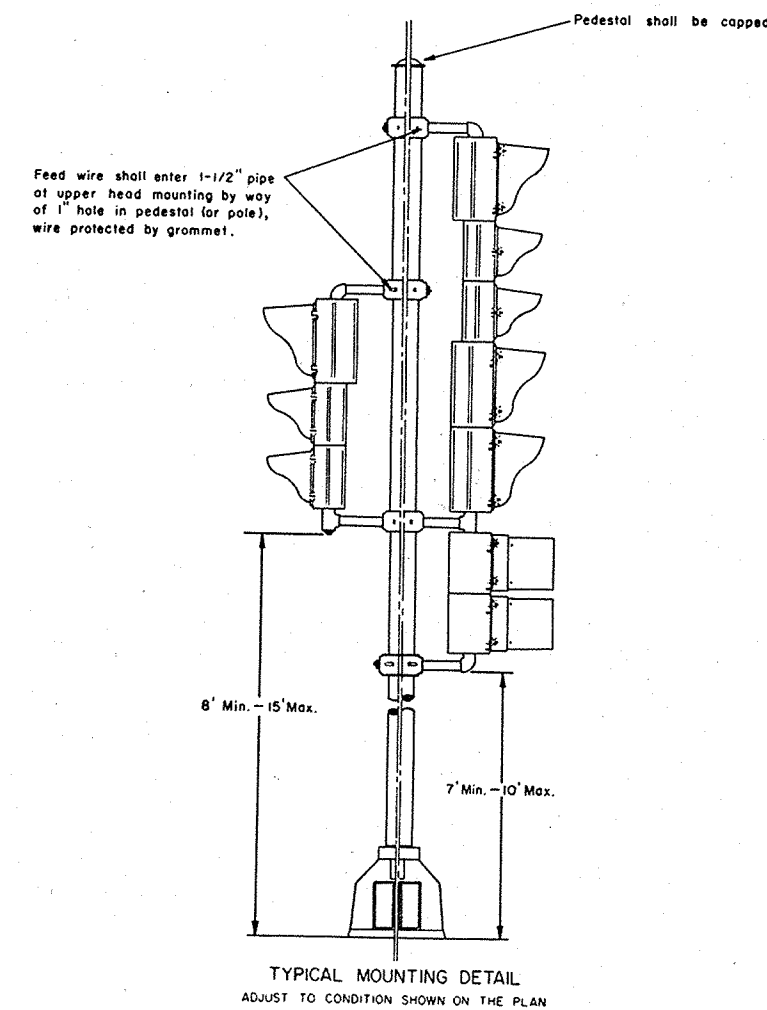
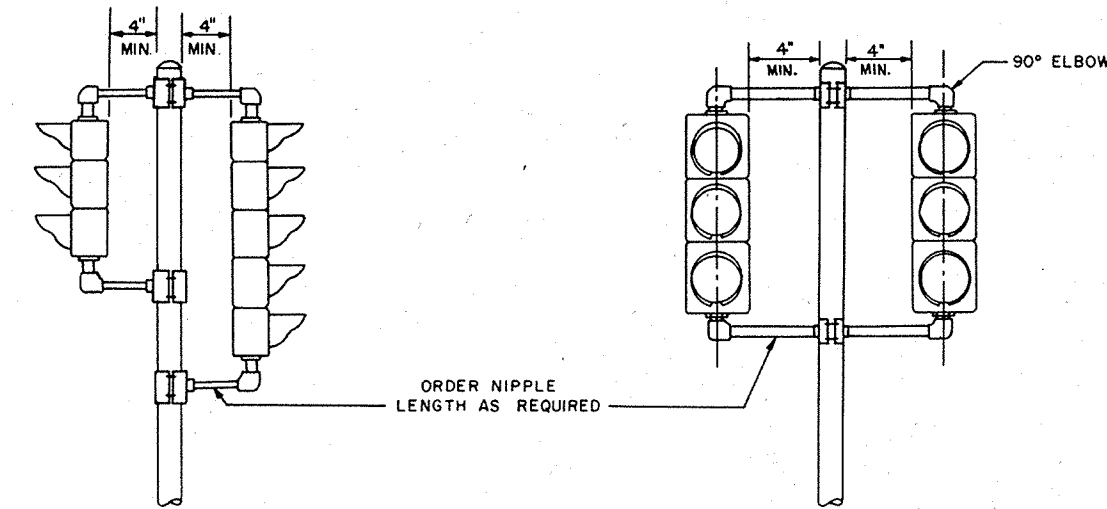
DETAIL "B"

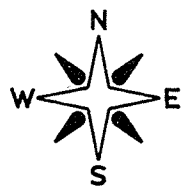


PLAN

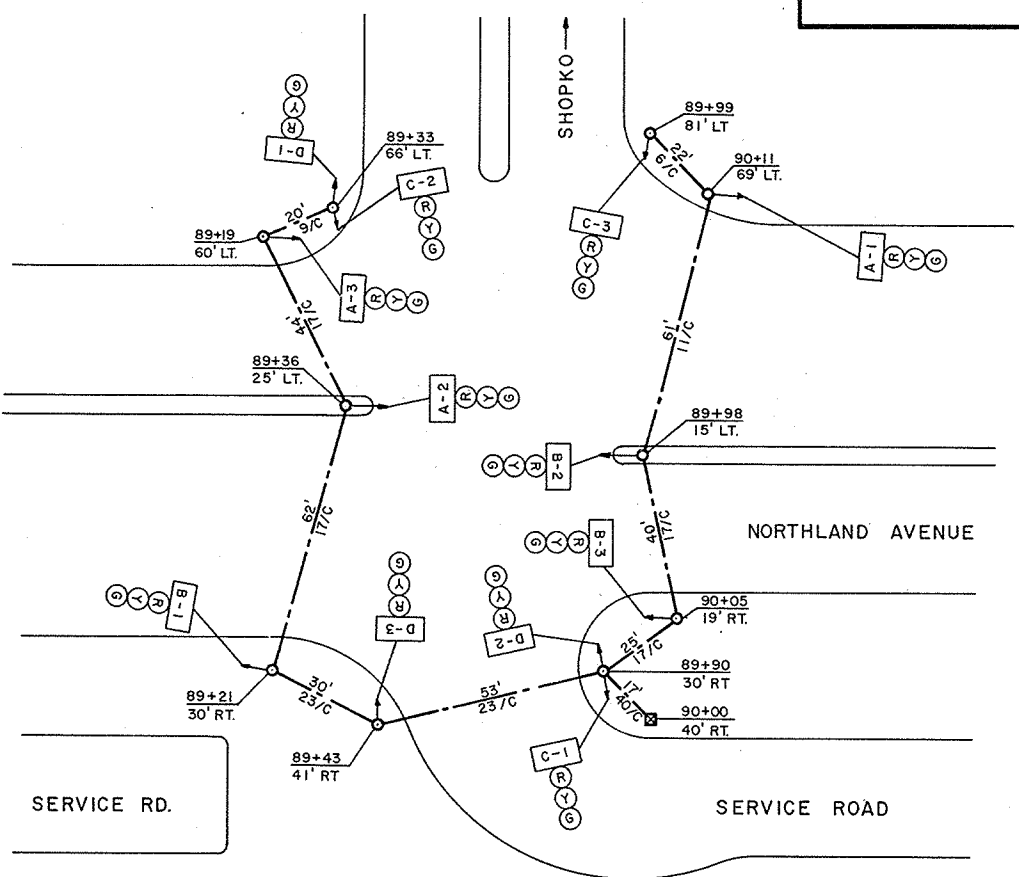
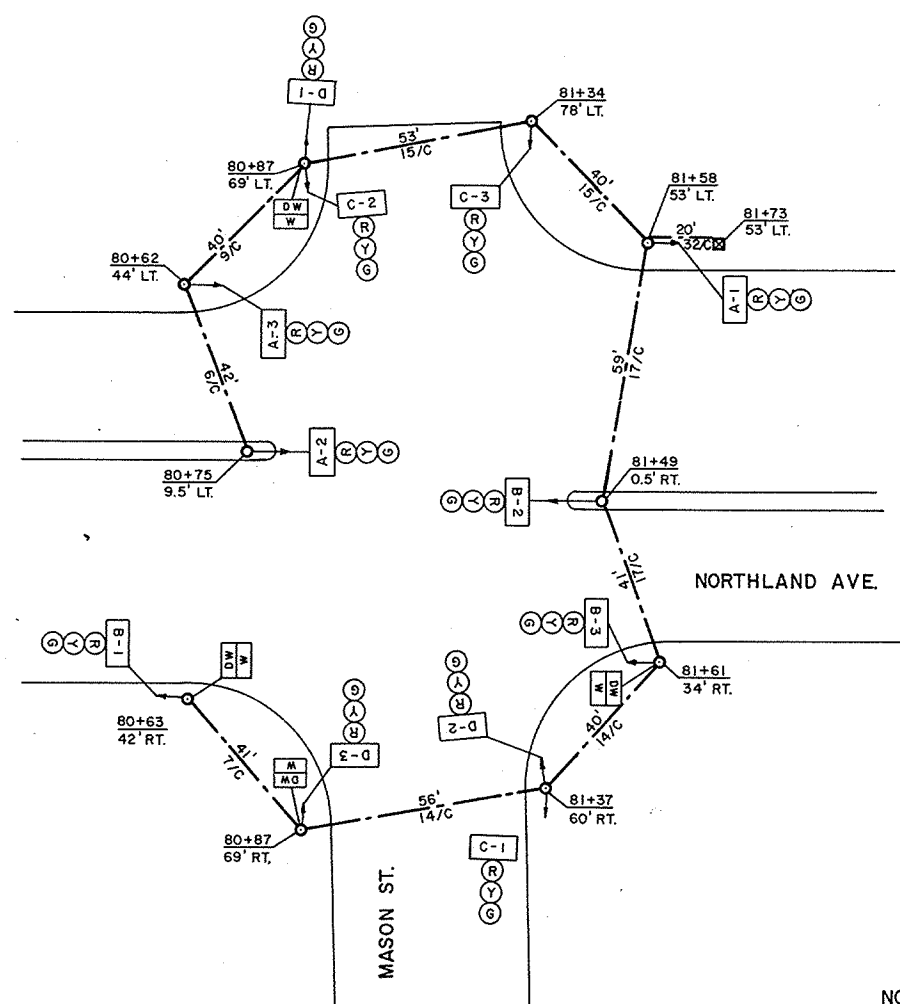
TYPE I MODIFIED TRAFFIC SIGNAL BASE

STATE PROJECT NUMBER	SHEET NO.
4984-0-42 & 6240-2-71	2.4
CONSTRUCTION DETAILS	





- LEGEND
- MODIFIED TYPE I SIGNAL BASE
 - SIGNAL CONTROLLER (ON TYPE I MODIFIED SIGNAL BASE)
 - 3" CONDUIT (60', 11 CONDUCTOR)
 - 12" (RED) SIGNAL FACE
 - 12" PEDESTRIAN SIGNAL
 - (THREE SECTION) SIGNAL HEAD (NO. A-2), POST MOUNTED



NOTE:
THESE SIGNALS SHALL BE INTERCONNECTED. INTERVAL NUMBER 1 OF THE FOLLOWING INTERSECTIONS SHALL BE INITIATED AFTER THE BEGINNING OF INTERVAL NUMBER 1 AT NORTHLAND AVENUE AND RICHMOND STREET:

NORTHLAND AVE. & BENNETT ST. = 72 SECONDS AFTER NORTHLAND AVE. & RICHMOND ST.
NORTHLAND AVE. & SHOPKO = 32 SECONDS AFTER NORTHLAND AVE. & RICHMOND ST.
NORTHLAND AVE. & MASON ST. = 40 SECONDS AFTER NORTHLAND AVE. & RICHMOND ST.

SIGNAL SEQUENCE

INTERVAL	NORTHLAND AVENUE		MASON STREET		TIME IN SECONDS
	S - X WALK PEDESTRIAN	A-1 - A-3, B-1 - B-3	C-1 - C-3, D-1 - D-3	W - X WALK PEDESTRIAN	
1	W	G	R	DW	38.4
2	FDW	G	R	DW	12.8
3	FDW	Y	R	DW	4.0
4	DW	R	R	DW	0.8
5	DW	R	G	W	4.0
6	DW	R	G	FDW	14.4
7	DW	R	Y	FDW	4.0
8	DW	R	R	DW	1.6
FLASH	-	FY	FR	-	TOTAL 80.0

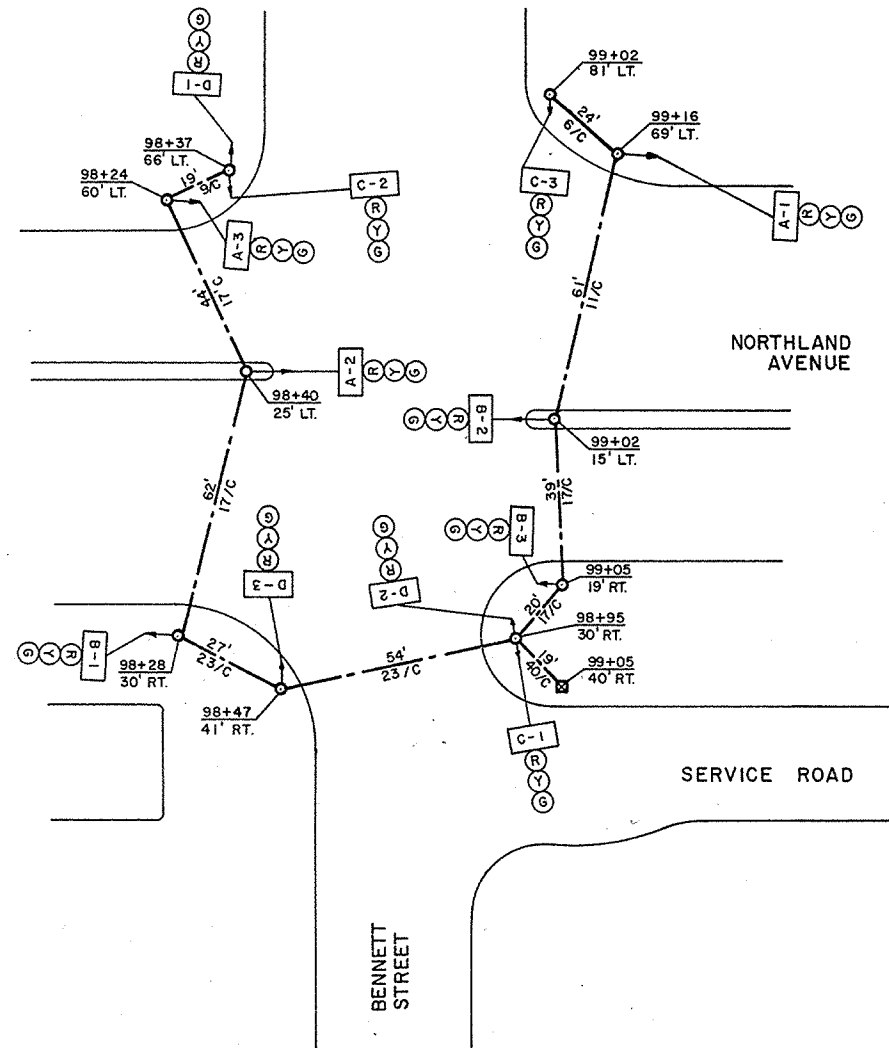
PROGRAMMED FLASHING OPERATION SHALL BEGIN AT 11:00 P.M. AND RETURN TO NORMAL OPERATION AT 6:00 A.M. THE CHANGE FROM NORMAL OPERATION TO FLASHING OPERATION SHALL BE MADE AT THE END OF INTERVAL 8 AND THE CHANGE FROM FLASHING OPERATION TO NORMAL OPERATION SHALL BE MADE AT THE BEGINNING OF INTERVAL 1.

SIGNAL SEQUENCE

INTERVAL	NORTHLAND AVENUE	SHOPKO ENTRANCE	TIME IN SECONDS
	A-1 - A-3, B-1 - B-3	C-1 - C-3, D-1 - D-3	
1	G	R	44.8
2	Y	R	4.0
3	R	R	0.8
4	R	G	24.8
5	R	Y	4.0
6	R	R	1.6
FLASH	FY	FR	TOTAL 80.0

PROGRAMMED FLASHING OPERATION SHALL BEGIN AT 9:30 P.M. AND RETURN TO NORMAL OPERATION AT 7:00 A.M. THE CHANGE FROM NORMAL OPERATION TO FLASHING OPERATION SHALL BE MADE AT THE END OF INTERVAL 6 AND THE CHANGE FROM FLASHING OPERATION TO NORMAL OPERATION SHALL BE MADE AT THE BEGINNING OF INTERVAL 1.

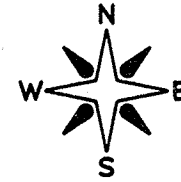
PROJECT I.D. NO. 4984-0-42



SIGNAL SEQUENCE

INTERVAL	NORTHLAND AVENUE	BENNETT STREET	TIME IN SECONDS
1	A-1 - A-3, B-1 - B-3	C-1 - C-3, D-1 - D-3	53.6
2	G	R	4.0
3	Y	R	0.8
4	R	G	16.0
5	R	Y	4.0
6	R	R	1.6
FLASH	FY	FR	TOTAL 80.0

PROGRAMMED FLASHING OPERATION SHALL BEGIN AT 9:30 P.M. AND RETURN TO NORMAL OPERATION AT 7:00 A.M. THE CHANGE FROM NORMAL OPERATION TO FLASHING OPERATION SHALL BE MADE AT THE END OF INTERVAL 6 AND THE CHANGE FROM FLASHING OPERATION TO NORMAL OPERATION SHALL BE MADE AT THE BEGINNING OF INTERVAL 1.



LEGEND

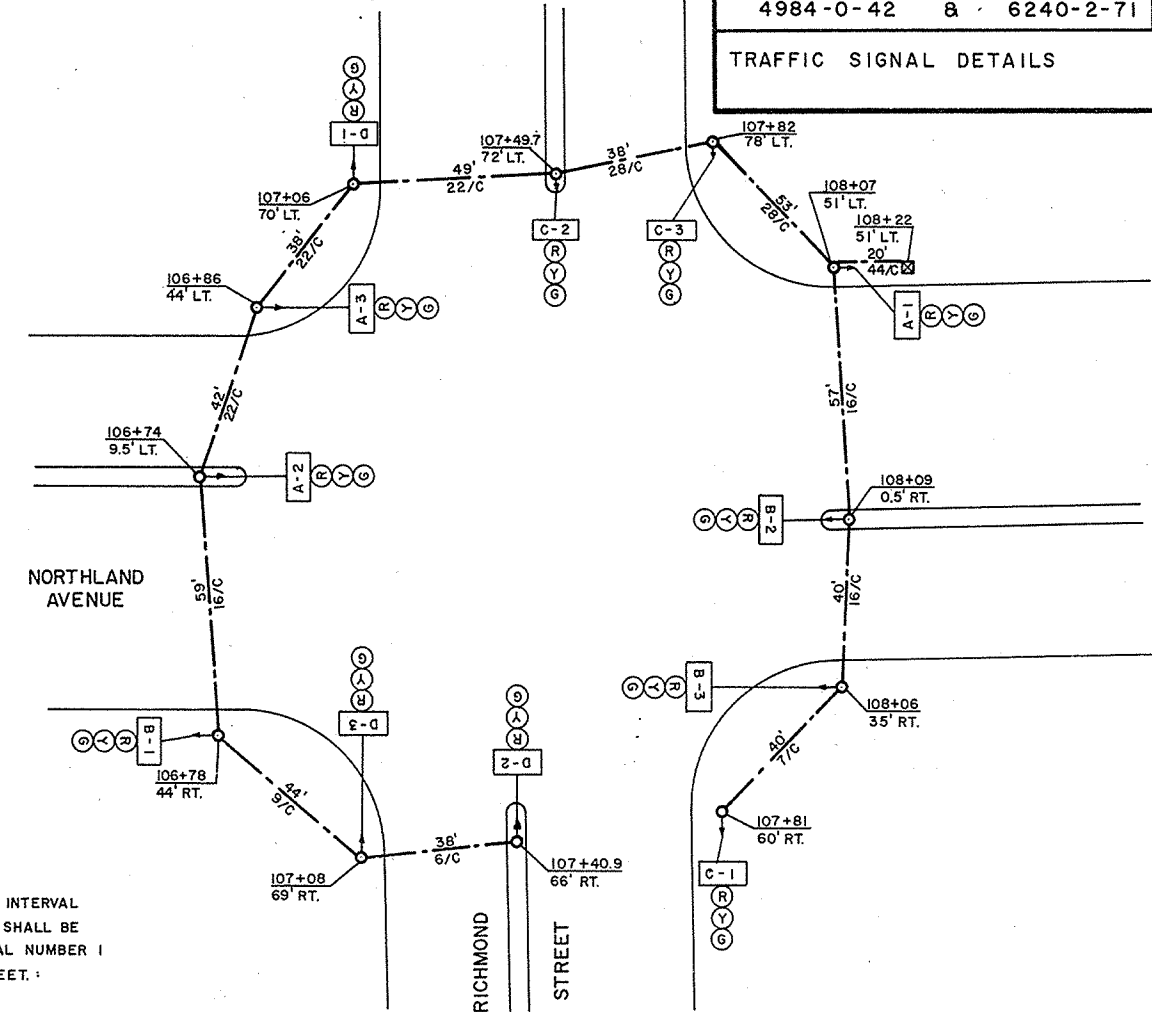
- MODIFIED TYPE I SIGNAL BASE
- SIGNAL CONTROLLER (ON TYPE I MODIFIED SIGNAL BASE)
- 3" CONDUIT (60', 11 CONDUCTOR)
- 12" (RED) SIGNAL FACE
- 12" PEDESTRIAN SIGNAL
- (THREE SECTION) SIGNAL HEAD (NO. A-2) POST MOUNTED

NOTE:

THESE SIGNALS SHALL BE INTERCONNECTED. INTERVAL NUMBER 1 OF THE FOLLOWING INTERSECTIONS SHALL BE INITIATED AFTER THE BEGINNING OF INTERVAL 1 AT NORTHLAND AVENUE AND RICHMOND STREET.

NORTHLAND AVE. & BENNETT ST. = 72 SECONDS AFTER NORTHLAND AVE & RICHMOND ST.
 NORTHLAND AVE. & SHOPKO = 32 SECONDS AFTER NORTHLAND AVE & RICHMOND ST.
 NORTHLAND AVE. & MASON ST. = 40 SECONDS AFTER NORTHLAND AVE. & RICHMOND ST.

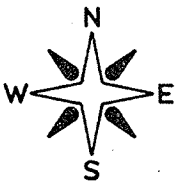
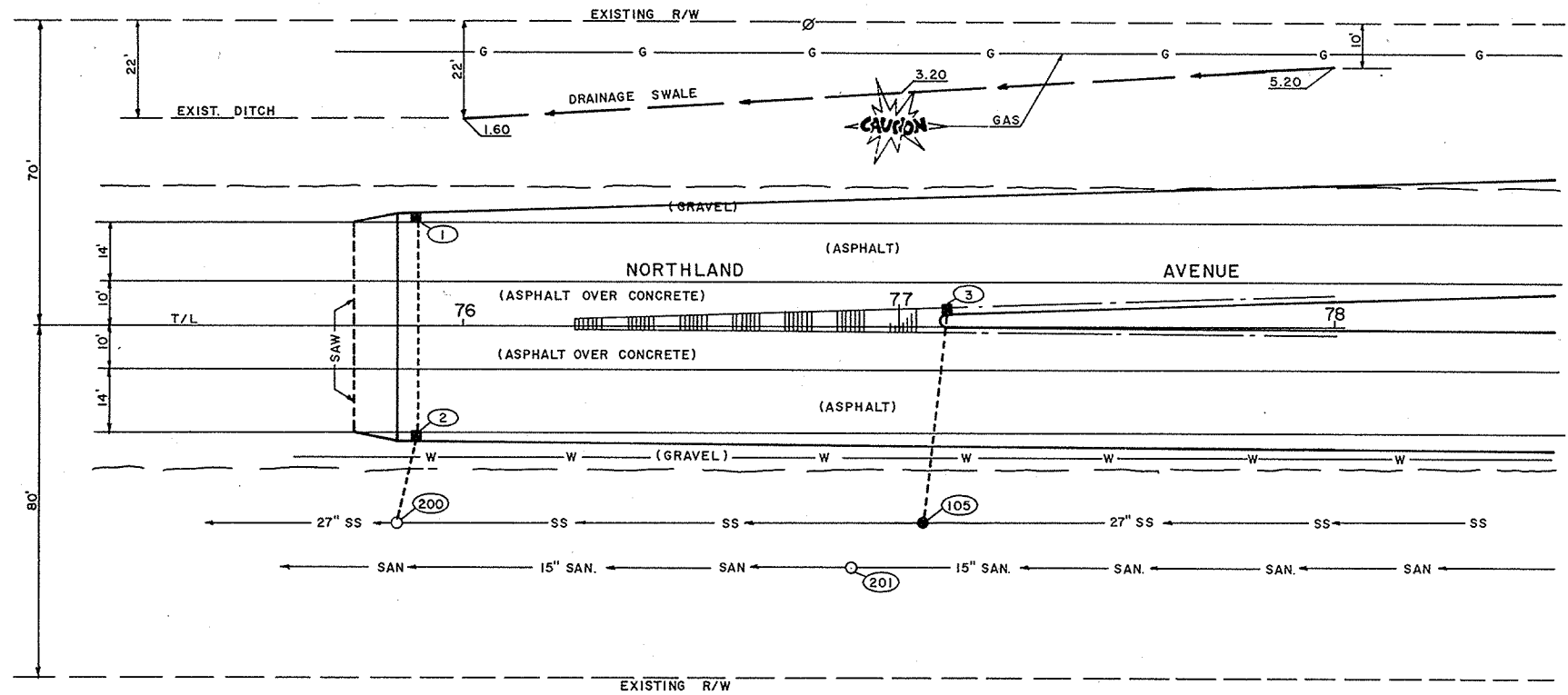
STATE PROJECT NUMBER	SHEET NO.
4984-0-42 & 6240-2-71	2.6
TRAFFIC SIGNAL DETAILS	



SIGNAL SEQUENCE

INTERVAL	NORTHLAND AVENUE	RICHMOND STREET	TIME IN SECONDS
1	A-1 - A-3, B-1 - B-3	C-1 - C-3, D-1 - D-3	38.4
2	G	R	4.0
3	Y	R	1.6
4	R	G	30.4
5	R	Y	4.0
6	R	R	1.6
FLASH	FR	FY	TOTAL 80.0

PROGRAMMED FLASHING OPERATION SHALL BEGIN AT 11:00 P.M. AND RETURN TO NORMAL OPERATION AT 6:00 A.M. THE CHANGE FROM NORMAL OPERATION TO FLASHING OPERATION SHALL BE MADE AT THE END OF INTERVAL 3 AND THE CHANGE FROM FLASHING OPERATION TO NORMAL OPERATION SHALL BE MADE AT THE BEGINNING OF INTERVAL 4.

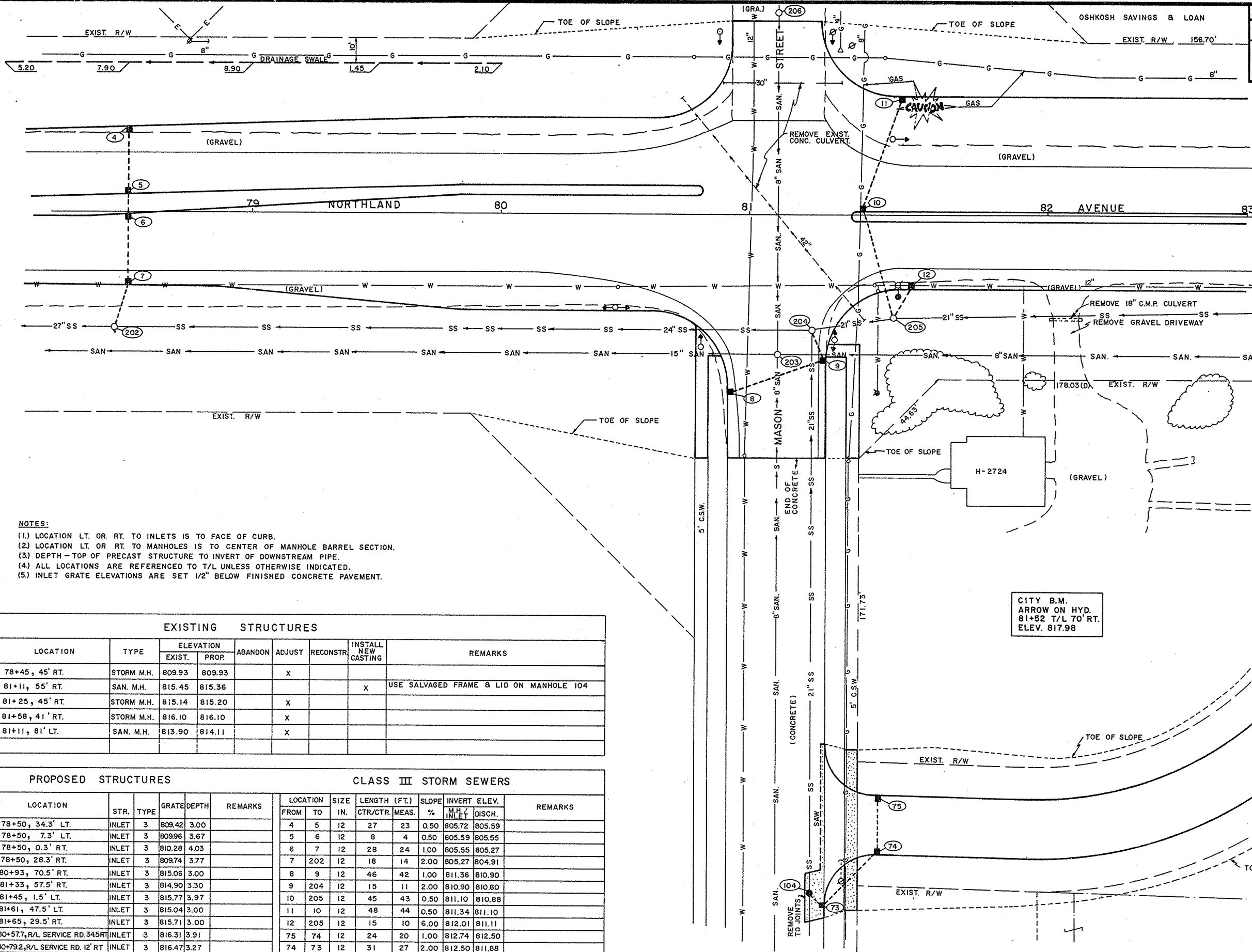


CITY B.M.
ARROW ON HYD.
81+52 T/L 70' RT.
ELEV. 817.98

- NOTES:
- (1) LOCATION LT. OR RT. TO INLETS IS TO FACE OF CURB
 - (2) LOCATION LT. OR RT. TO MANHOLES IS TO CENTER OF MANHOLE BARREL SECTION.
 - (3) DEPTH - TOP OF PRECAST STRUCTURE TO INVERT OF DOWNSTREAM PIPE.
 - (4) ALL LOCATIONS ARE REFERENCED TO T/L UNLESS OTHERWISE INDICATED.
 - (5) INLET GRATE ELEVATIONS ARE SET 1/2" BELOW FINISHED CONCRETE PAVEMENT.

PROPOSED STRUCTURES						CLASS III STORM SEWER									
CODE	LOCATION	STR.	TYPE	GRATE	DEPTH	REMARKS	LOCATION		SIZE	LENGTH (FT.)		SLOPE	INVERT ELEV.		REMARKS
							FROM	TO		CTR/CTR	MEAS.		%	M.H./INLET	
1	75+90, 26.2' LT.	INLET	3	805.70	3.00		1	2	12	52	48	0.50	802.00	801.74	
2	75+90, 26.0' RT.	INLET	3	805.92	3.74		2	200	12	20	18	1.00	801.74	801.54	
3	77+11, 3.0' LT.	INLET	3	807.55	3.00		3	105	12	48	46	0.50	803.85	803.61	
105	77+06, 45' RT	STORM M.H.	1	807.42	5.14	USE FRAME & LID FROM M.H. 201									

EXISTING STRUCTURES											
CODE	LOCATION	TYPE	ELEVATION		ABANDON	ADJUST	RECONST.	INSTALL NEW CASTING	REMARKS		
			EXIST.	PROP.							
200	75+85, 45' RT.	STORM M.H.	805.93	805.93		X					
201	76+89, 55' RT.	SAN. M.H.	801.99	806.04			X	X	REMOVE CONE AND ADD 4' M.H. BARREL SECTION - RESET CONE		



STATE PROJECT NUMBER	SHEET NO.
4984-0-42	2.8
UTILITIES, DRAINAGE & REMOVALS	

- NOTES:
- (1.) LOCATION LT. OR RT. TO INLETS IS TO FACE OF CURB.
 - (2.) LOCATION LT. OR RT. TO MANHOLES IS TO CENTER OF MANHOLE BARREL SECTION.
 - (3.) DEPTH - TOP OF PRECAST STRUCTURE TO INVERT OF DOWNSTREAM PIPE.
 - (4.) ALL LOCATIONS ARE REFERENCED TO T/L UNLESS OTHERWISE INDICATED.
 - (5.) INLET GRATE ELEVATIONS ARE SET 1/2" BELOW FINISHED CONCRETE PAVEMENT.

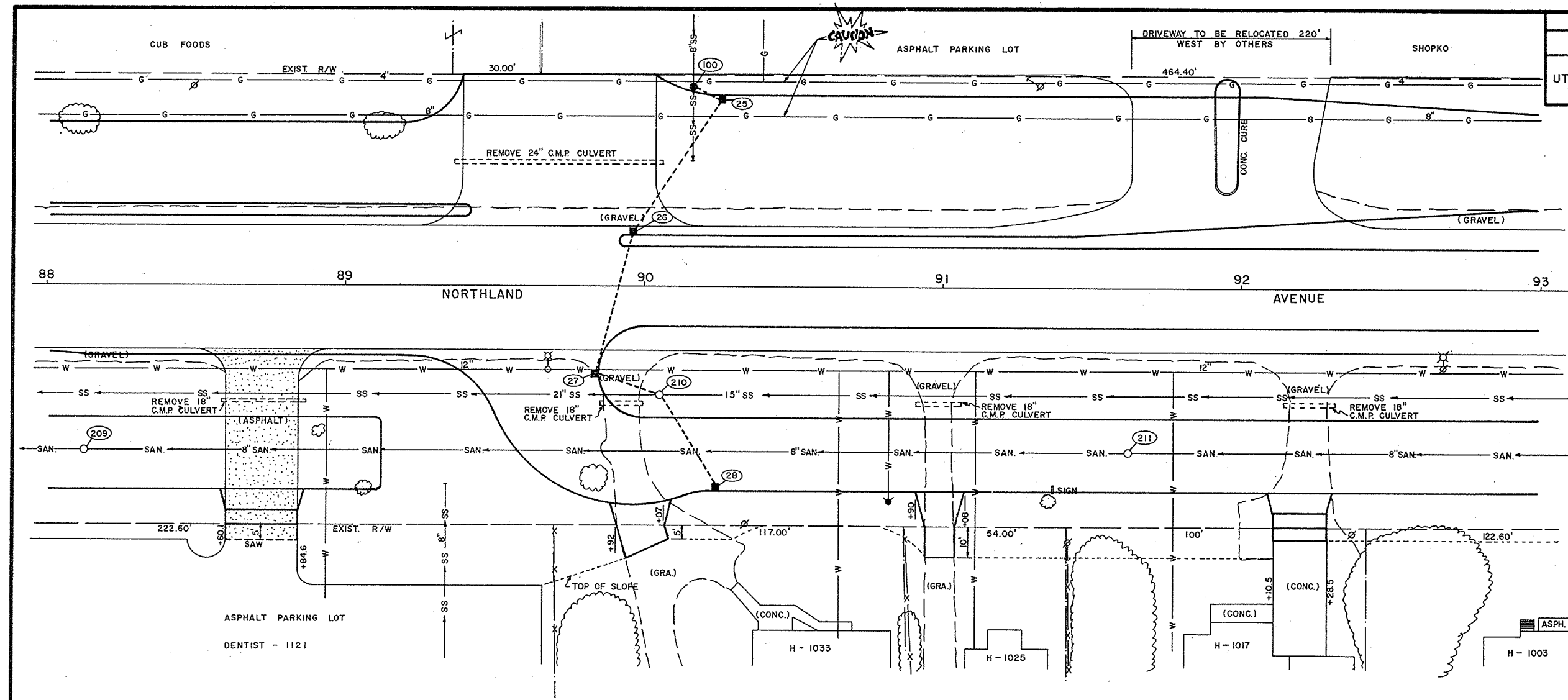
EXISTING STRUCTURES

CODE	LOCATION	TYPE	ELEVATION		ABANDON	ADJUST	RECONSTR	INSTALL NEW CASTING	REMARKS
			EXIST.	PROP.					
202	78+45, 45' RT.	STORM M.H.	809.93	809.93		X			
203	81+11, 55' RT.	SAN. M.H.	815.45	815.36				X	USE SALVAGED FRAME & LID ON MANHOLE 104
204	81+25, 45' RT.	STORM M.H.	815.14	815.20		X			
205	81+58, 41' RT.	STORM M.H.	816.10	816.10		X			
206	81+11, 81' LT.	SAN. M.H.	813.90	814.11		X			

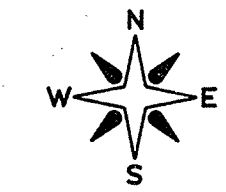
PROPOSED STRUCTURES

CLASS III STORM SEWERS

CODE	LOCATION	STR.	TYPE	GRATE	DEPTH	REMARKS	LOCATION		SIZE	LENGTH (FT.)		SLOPE	INVERT	ELEV.	REMARKS
							FROM	TO		CTR/CTR	MEAS.				
4	78+50, 34.3' LT.	INLET	3	809.42	3.00		4	5	12	27	23	0.50	805.72	805.59	
5	78+50, 7.3' LT.	INLET	3	809.96	3.67		5	6	12	8	4	0.50	805.59	805.55	
6	78+50, 0.3' RT.	INLET	3	810.28	4.03		6	7	12	28	24	1.00	805.55	805.27	
7	78+50, 28.3' RT.	INLET	3	809.74	3.77		7	202	12	18	14	2.00	805.27	804.91	
8	80+93, 70.5' RT.	INLET	3	815.06	3.00		8	9	12	46	42	1.00	811.36	810.90	
9	81+33, 57.5' RT.	INLET	3	814.90	3.30		9	204	12	15	11	2.00	810.90	810.60	
10	81+45, 1.5' LT.	INLET	3	815.77	3.97		10	205	12	45	43	0.50	811.10	810.88	
11	81+61, 47.5' LT.	INLET	3	815.04	3.00		11	10	12	48	44	0.50	811.34	811.10	
12	81+65, 29.5' RT.	INLET	3	815.71	3.00		12	205	12	15	10	6.00	812.01	811.11	
73	80+57.7, R/L SERVICE RD. 345 RT.	INLET	3	816.31	3.91		75	74	12	24	20	1.00	812.74	812.50	
74	80+79.2, R/L SERVICE RD. 12' RT.	INLET	3	816.47	3.27		74	73	12	31	27	2.00	812.50	811.88	
75	80+77.2, R/L SERVICE RD. 12' LT.	INLET	3	816.44	3.00		73	104	12	6	2	2.00	811.76	811.64	
104	80+53.7, R/L SERVICE RD. 30' RT.	STORM M.H.	1	816.59	5.71	CONSTRUCT M.H. OVER EXIST. 21" STO. SEWER									



STATE PROJECT NUMBER	SHEET NO.
4984-0-42	210
UTILITIES, DRAINAGE & REMOVALS	

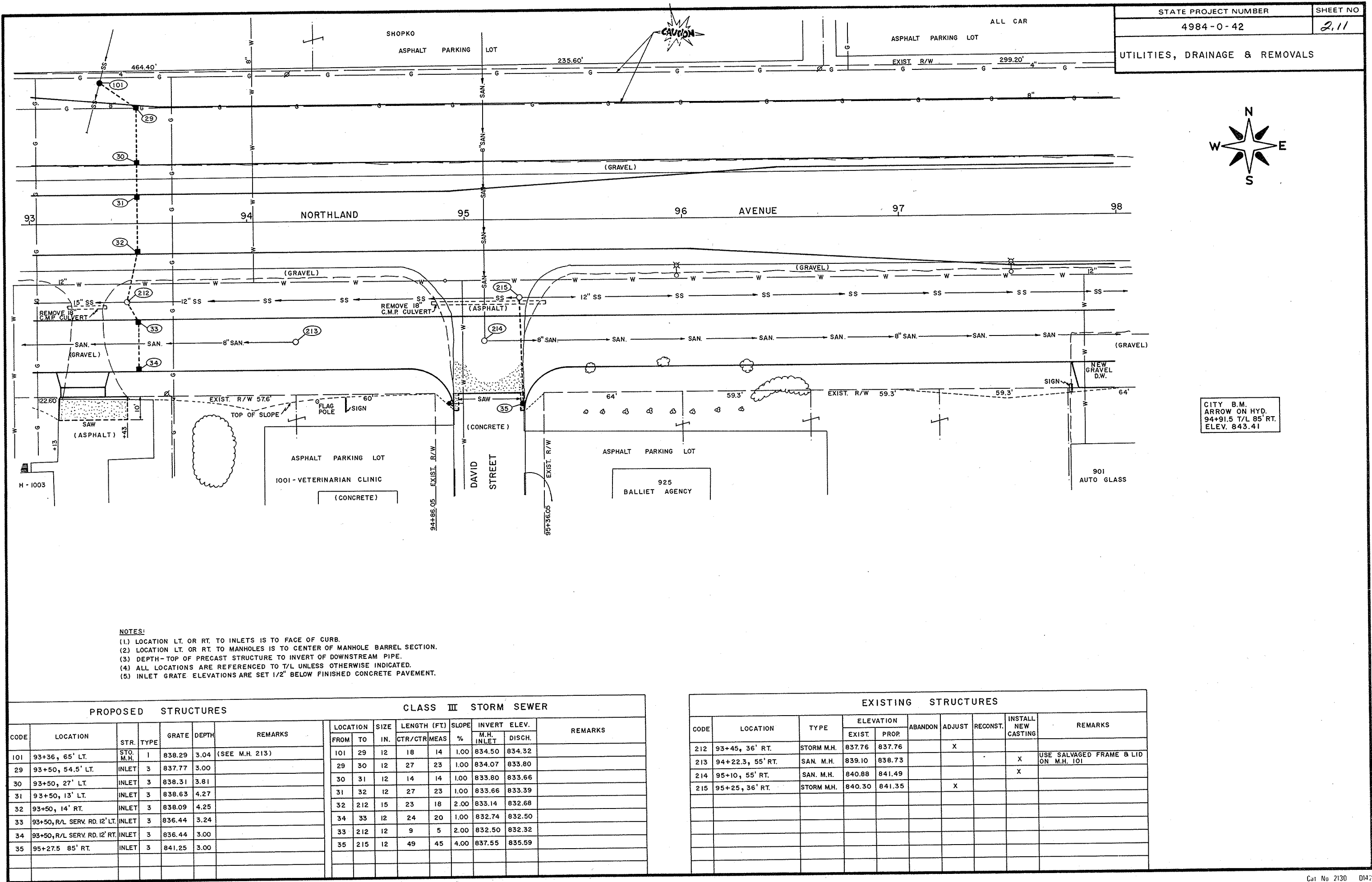


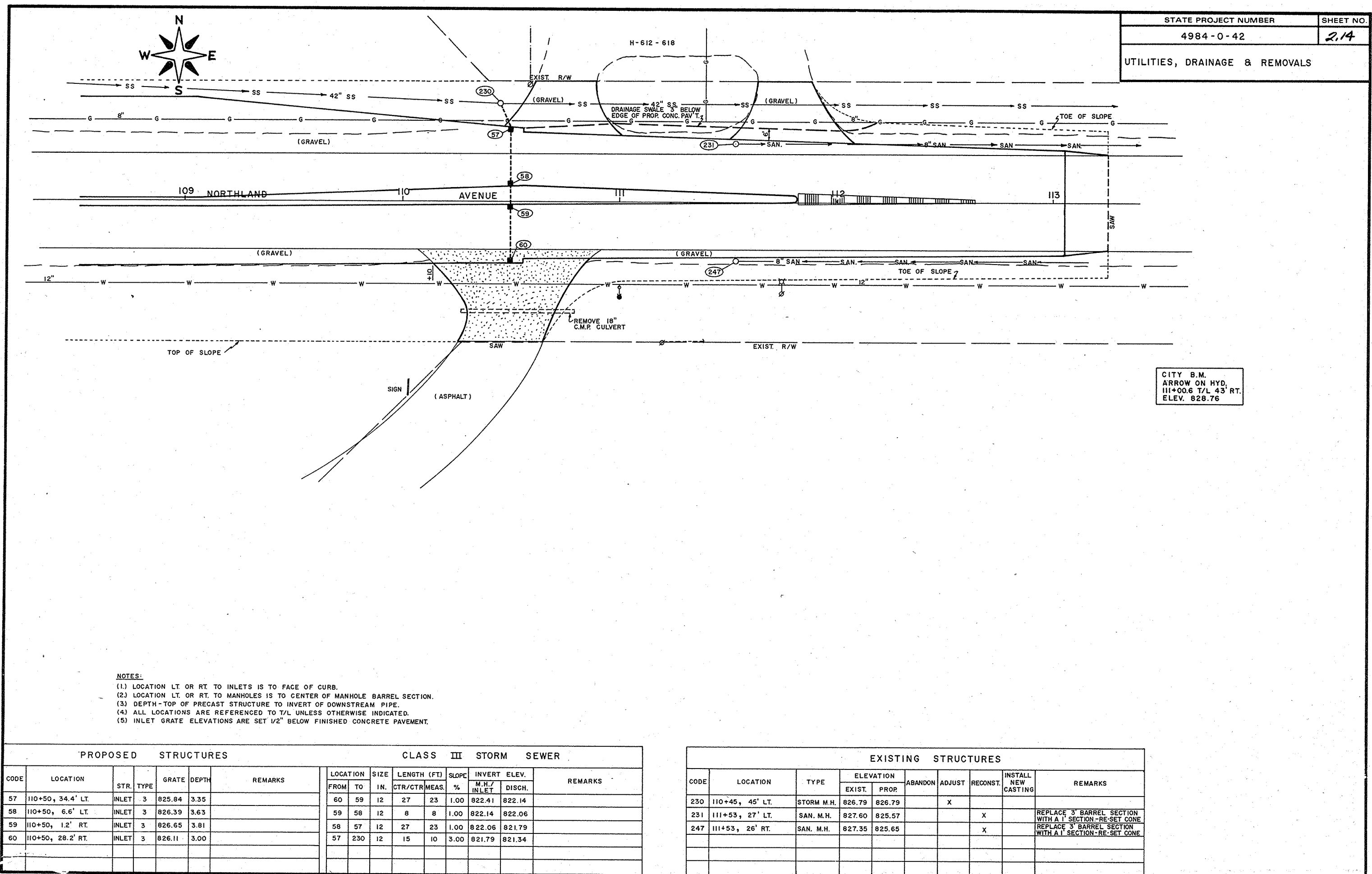
CITY B.M.
ARROW ON HYD.
90+81 T/L 71' RT.
ELEV. 836.52

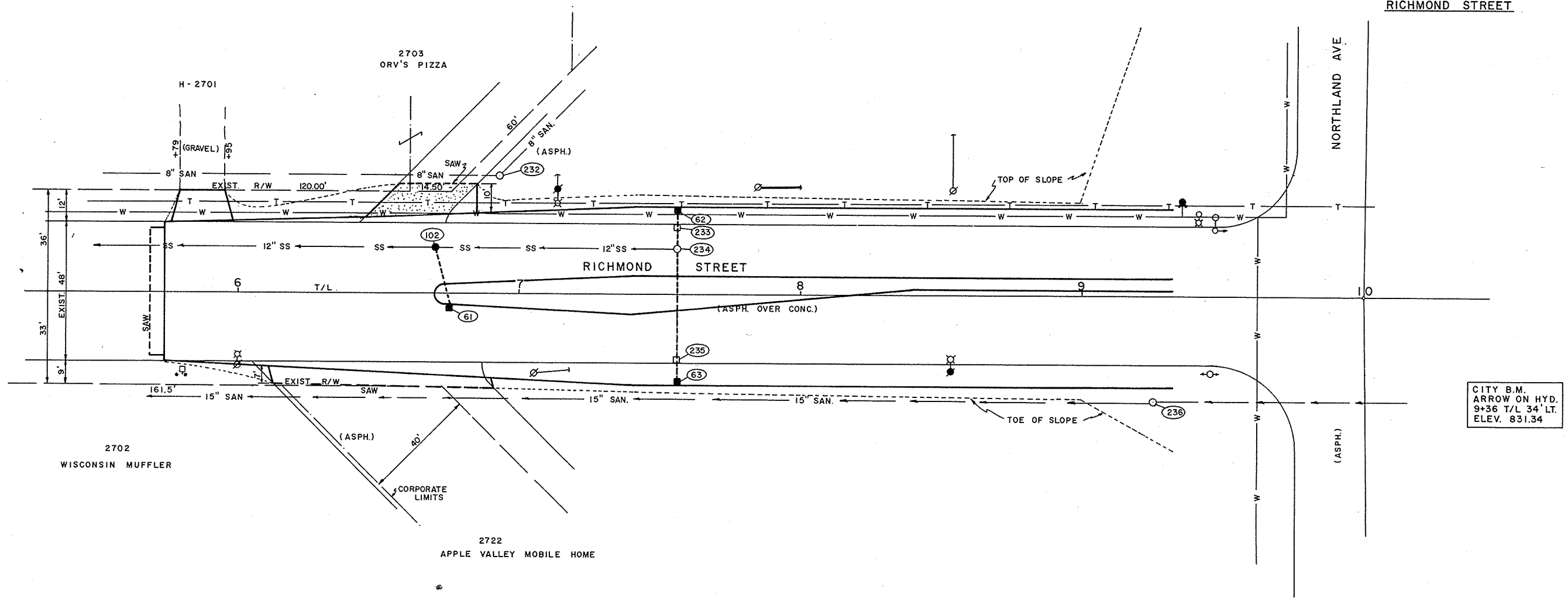
- NOTES:
- (1) LOCATION LT. OR RT. TO INLETS IS TO FACE OF CURB.
 - (2) LOCATION LT. OR RT. TO MANHOLES IS TO CENTER OF MANHOLE BARREL SECTION.
 - (3) DEPTH-TOP OF PRECAST STRUCTURE TO INVERT OF DOWNSTREAM PIPE.
 - (4) ALL LOCATIONS ARE REFERENCED TO T/L UNLESS OTHERWISE INDICATED.
 - (5) INLET GRATE ELEVATIONS ARE SET 1/2" BELOW FINISHED CONCRETE PAVEMENT.

PROPOSED STRUCTURES						CLASS III STORM SEWER									
CODE	LOCATION	STR.	TYPE	GRATE	DEPTH	REMARKS	LOCATION	FROM	TO	SIZE	LENGTH (FT.)	SLOPE	INVERT ELEV		REMARKS
													M.H. INLET	DISCH.	
100	90+16, 66' LT.	STO. M.H.	1	832.91	3.23	USE CUT-OUT PRECAST CONCRETE CONE. (SEE M.H. 211)	100	25	12	10	5	1.00	828.93	828.83	
25	90+26, 63' LT.	INLET	3	832.28	3.00		25	26	12	55	50	1.00	828.58	828.03	
26	89+96, 17' LT.	INLET	3	832.68	3.95		26	27	12	47	43	1.00	828.03	827.56	
27	89+85, 29' RT.	INLET	3	831.67	3.66		27	210	15	20	16	1.00	827.31	827.11	
28	90+24, 68' RT.	INLET	3	832.08	3.00		28	210	12	37	33	2.00	828.38	827.64	

EXISTING STRUCTURES									
CODE	LOCATION	TYPE	ELEVATION		ABANDON	ADJUST	RECONST.	INSTALL NEW CASTING	REMARKS
			EXIST.	PROP.					
209	88+12.7, 55' RT	SAN. M.H.	828.41	829.28				X	
210	90+05, 36' RT.	STORM M.H.	832.55	832.55		X			
211	91+62.1, 55' RT.	SAN. M.H.	834.59	834.65				X	SALVAGED FRAME & LID TO BE INSTALLED ON M.H. 100



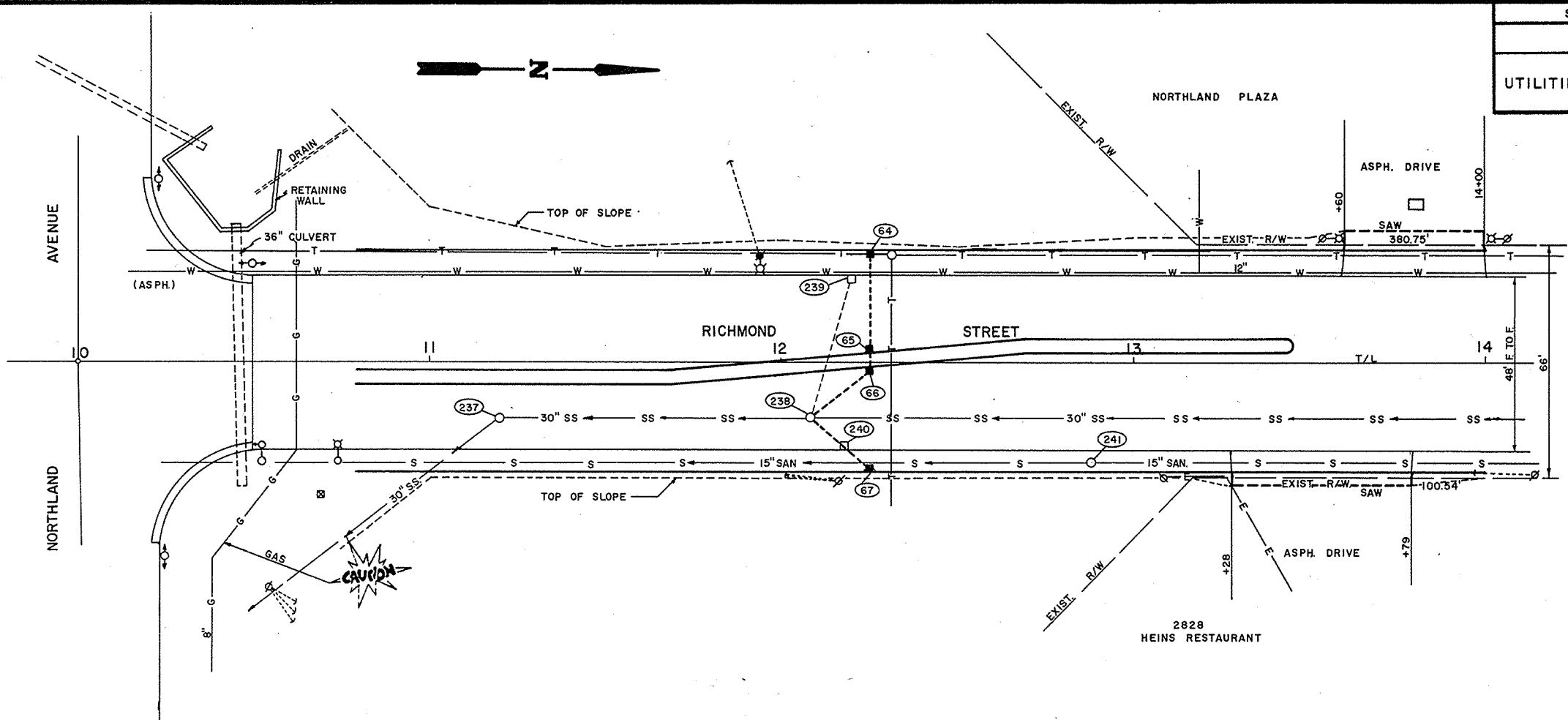




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PROPOSED STRUCTURES							CLASS III STORM SEWER									
CODE	LOCATION	STR.	TYPE	GRATE	DEPTH	REMARKS	LOCATION		SIZE	LENGTH (FT.)			SLOPE	INVERT ELEV.		REMARKS
							FROM	TO		IN.	CTR/CTR	MEAS		%	M.H. INLET	
102	6+70, 15.5' LT.	STO. M.H.	1	828.62	3.82	CONSTRUCT M.H. OVER EXISTING 12" STORM SEWER	61	102	12	20	15	0.50	824.99	824.89		
61	6+75, 3.5' RT.	INLET	3	828.69	3.00		62	234	12	16	12	0.50	824.76	824.68		
62	7+56, 31.5' LT.	INLET	3	828.46	3.00		63	234	12	47	43	0.50	824.76	824.53		
63	7+56, 31.5' RT.	INLET	3	828.46	3.00											

EXISTING STRUCTURES									
CODE	LOCATION	TYPE	ELEVATION		REMOVE	ADJUST	RECONST.	INSTALL NEW CASTING	REMARKS
			EXIST.	PROP.					
232	6+93, 41.5' LT.	SAN. M.H.	829.94	829.94				X	USE SALVAGED CASTING ON MANHOLE 102
233	7+56, 24' LT.	INLET	828.46		X				
234	7+56, 15.5' LT.	STORM M.H.	828.86	829.05			X		
235	7+56, 24' RT.	INLET	828.39		X				
236	9+25, 37' RT.	SAN. M.H.	828.84	829.51				X	



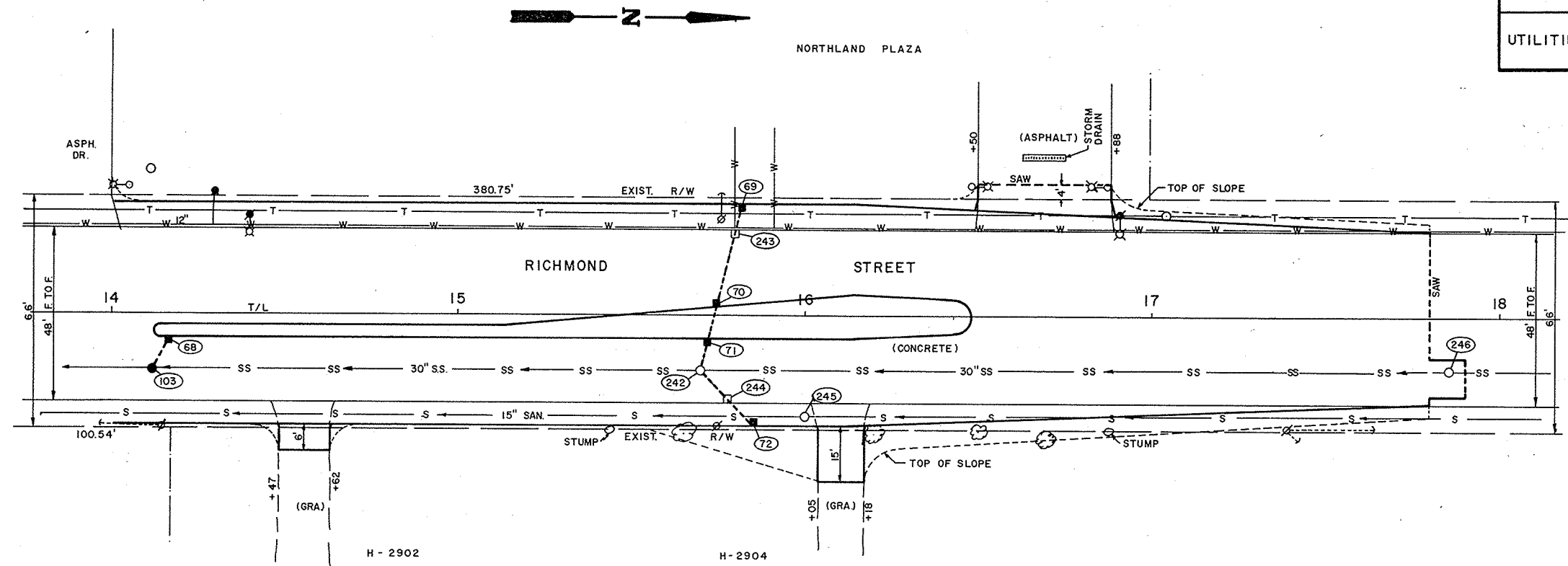
CITY B.M.
ARROW ON HYD.
14+29 T/L 34' LT.
ELEV. 732.10

NOTES:

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PROPOSED STRUCTURES						CLASS III STORM SEWER										REMARKS	
CODE	LOCATION	STR.	TYPE	GRATE	DEPTH		LOCATION		SIZE	LENGTH (FT.)			SLOPE	INVERT ELEV.			
							FROM	TO		IN.	CTR/CTR	MEAS.		M.H. INLET	DISCH.		
64	12+25, 31.5' LT.	INLET	3	828.49	3.00		64	65	12	29	25	0.50		824.79	824.64		
65	12+25, 2.6' LT.	INLET	3	828.85	3.51		65	66	12	4	4	0.50		824.64	824.62		
66	12+25, 1.4' RT.	INLET	3	828.77	3.45		66	238	12	24	19	0.50		824.62	824.50		
67	12+25, 31.5' RT.	INLET	3	828.23	3.00		67	238	12	23	18	0.50		824.53	824.41		

EXISTING STRUCTURES											REMARKS	
CODE	LOCATION	TYPE	ELEVATION		REMOVE	ABANDON	ADJUST.	RECONST.	INSTALL NEW CASTING			
			EXIST.	PROP.								
237	11+20, 16' RT.	STORM M.H.	829.12	829.30			X					
238	12+08, 16' RT.	STORM M.H.	828.90	828.76			X					
239	12+20, 24' LT.	INLET	828.48			X						
240	12+18, 24' RT.	INLET	828.74		X							
241	12+88, 28.5' RT.	SAN. M.H.	828.73	828.66					X			

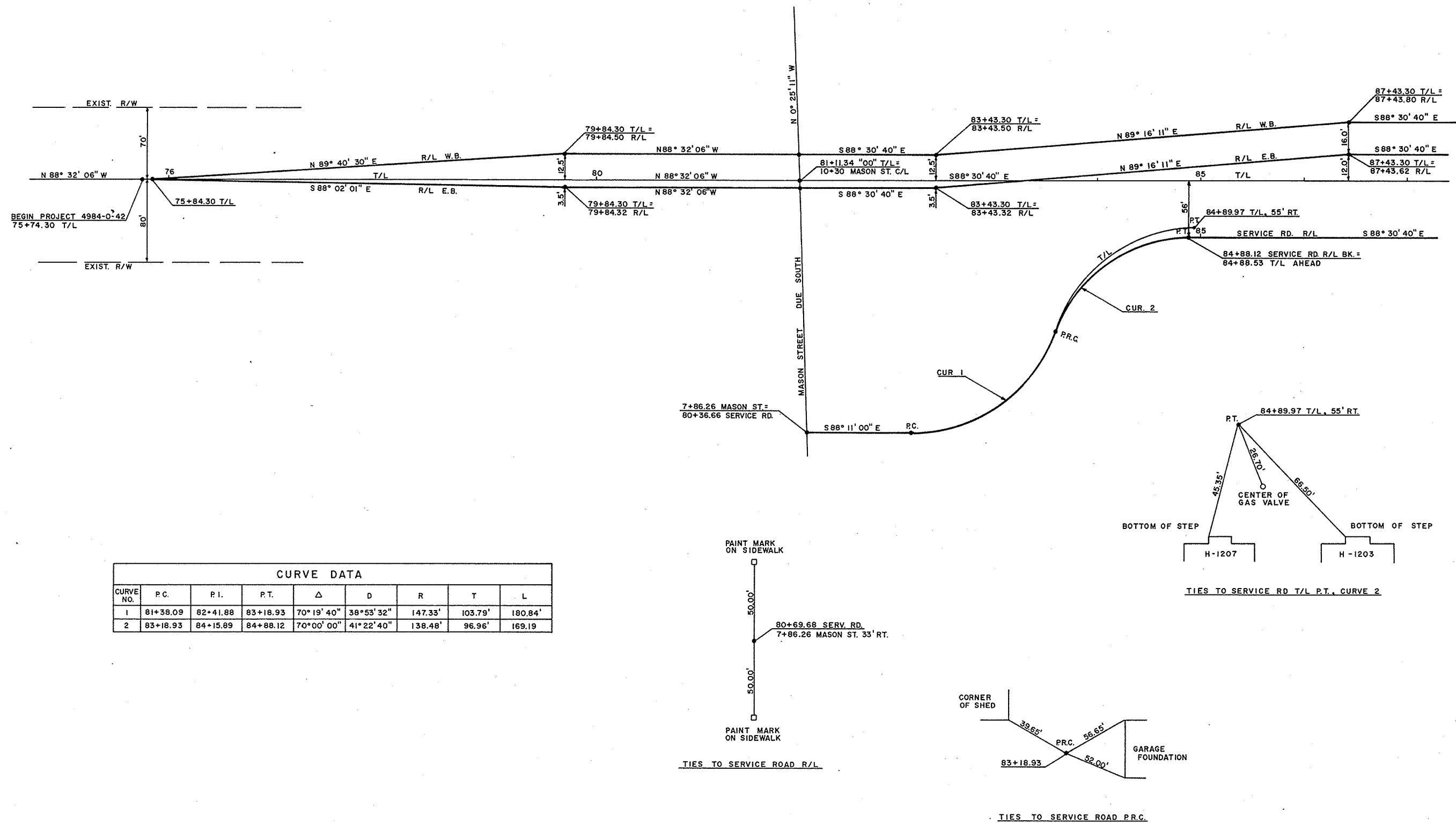


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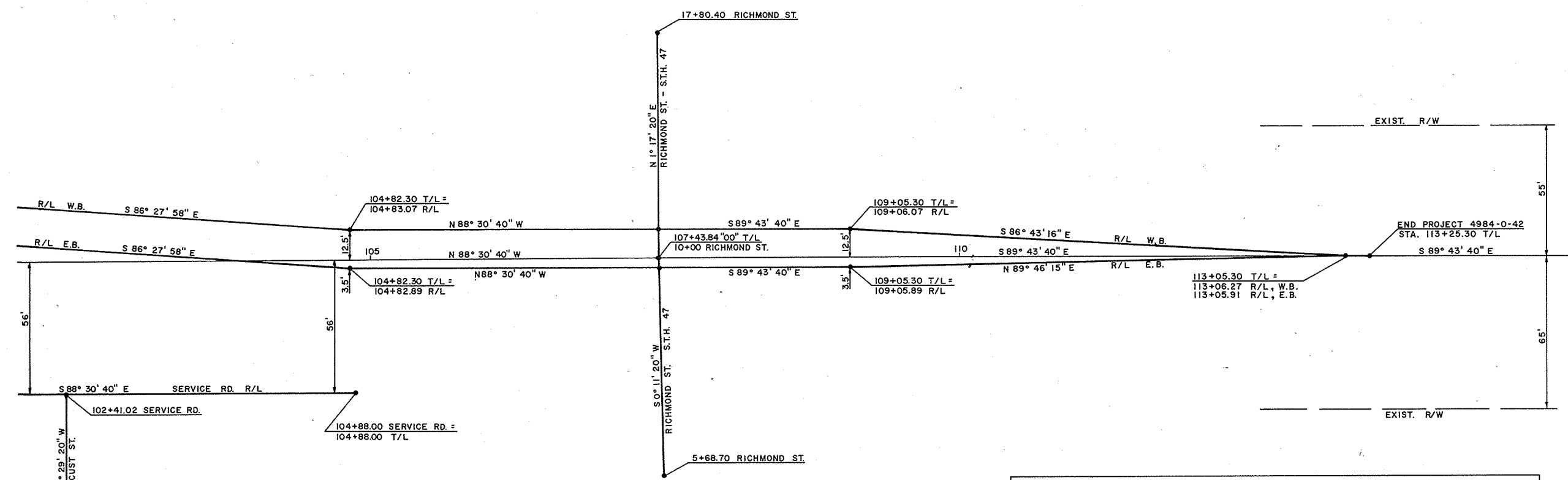
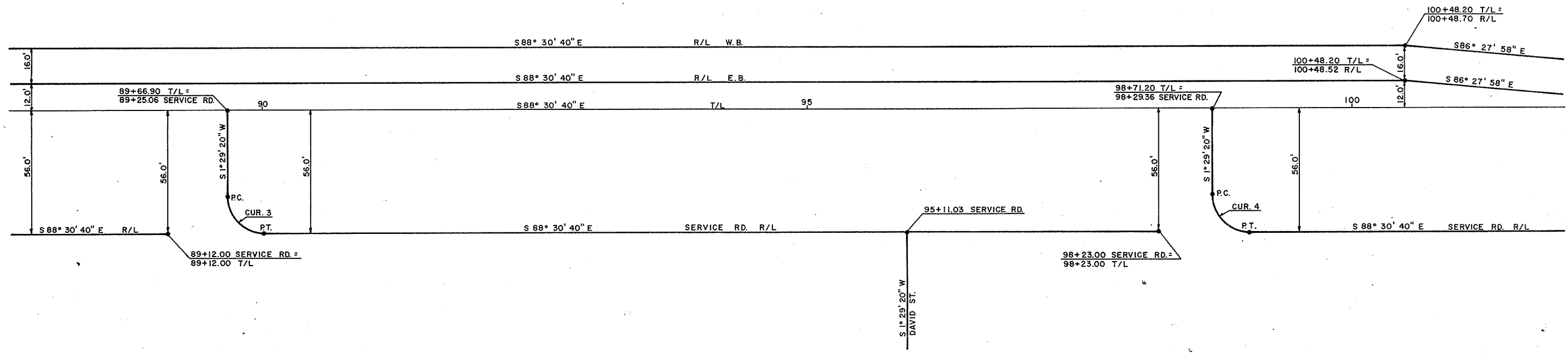
PROPOSED STRUCTURES						CLASS III STORM SEWER									
CODE	LOCATION	STR.	TYPE	GRATE	DEPTH	REMARKS	LOCATION		SIZE	LENGTH (FT)		SLOPE	INVERT ELEV.		REMARKS
							FROM	TO		IN.	CTR/CTR		MEAS.	%	
103	14+11, 16' RT.	STO. M.H.	1	829.41	6.15	CONSTRUCT MANHOLE OVER EXIST. 30" STORM SEWER	68	103	12	10	6	4.00	825.80	825.40	
68	14+15, 6.5' RT.	INLET	3	829.50	3.00		69	70	12	29	25	0.50	825.60	825.45	
69	15+82, 31.5' LT.	INLET	3	829.30	3.00		70	71	12	10	6	0.50	825.45	825.40	
70	15+76, 3.1' LT.	INLET	3	829.77	3.62		71	242	12	10	6	0.50	825.40	825.35	
71	15+72, 6.5' RT.	INLET	3	829.70	3.60		72	242	12	22	17	0.50	825.52	825.41	
72	15+85, 31.5' RT.	INLET	3	829.22	3.00										

EXISTING STRUCTURES																
CODE	LOCATION	TYPE	ELEVATION		REMOVE	ADJUST	RECONST.	INSTALL NEW CASTING	REMARKS							
			EXIST.	PROP.												
242	15+70, 16' RT.	STORM M.H.	829.74	829.68		X										
243	15+80, 24' LT.	INLET	829.52		X											
244	15+78, 24' RT.	INLET	829.40		X											
245	16+00, 28.5' RT.	SAN. M.H.	830.11	829.46				X	USE SALVAGED CASTING ON MANHOLE 103							
246	17+85, 16' RT.	STORM M.H.	830.30	830.30		X										

STATE PROJECT NUMBER	SHEET NO.
4984-0-42	218
ALIGNMENT PLAN FOR NORTHLAND AVENUE	



STATE PROJECT NUMBER	SHEET NO.
4984-0-42	219
ALIGNMENT PLAN FOR NORTHLAND AVENUE	



CURVE DATA								
CURVE NO.	P.C.	P.I.	P.T.	Δ	D	R	T	L
3	89+48.06	89+81.06	89+99.90	90°00'00"	173°38'11"	33.00'	33.00'	51.84'
4	98+52.36	98+85.36	99+04.20	90°00'00"	173°38'11"	33.00'	33.00'	51.84'

ESTIMATE OF QUANTITIES

DATE 02/17/82

PROJECT ID: 4984-00-42
OUTAGAMIE COUNTY
NORTHLAND AVENUE, CITY OF APPLETON
MASON STREET - 5TH 47
C.T.H. 00

PROJECT ID: 6240-02-71
OUTAGAMIE COUNTY
C.T.H. 00 INTERSECTION
CITY OF APPLETON
S.T.H. 47

ITEM	ITEM DESCRIPTION	UNIT	TOTAL	4984-00-42 QUANTITY	6240-02-71 QUANTITY
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20102	CLEARING	I.D.	92.00	92.00	
20105	GRUBBING	I.D.	46.00	46.00	
20401	REMOVING PAVEMENT	S.Y.	15,146.00	15,146.00	
20402	REMOVING BITUMINOUS SURFACE	S.Y.	24.00	24.00	
20406	REMOVING CONCRETE SIDEWALK	S.Y.	36.00	36.00	

20416	REMOVING INLETS	EACH	5.00	5.00	
20482	ABANDONING INLETS	EACH	4.00	4.00	
20503	UNCLASSIFIED EXCAVATION	C.Y.	13,986.00	13,986.00	
30404	CRUSHED AGGREGATE BASE COURSE	TON	9,369.00	9,369.00	
40907	CONCRETE PAVEMENT, 7-INCH	S.Y.	5,610.00	5,610.00	

40909	CONCRETE PAVEMENT, 9-INCH	S.Y.	32,056.00	32,056.00	
40931	CONCRETE DRIVEWAY	S.Y.	149.00	149.00	
60119	CONCRETE CURB AND GUTTER, 18-INCH, TYPE A	L.F.	8,063.00	8,063.00	
60123	CONCRETE CURB AND GUTTER, 30-INCH, TYPE A	L.F.	13,326.00	13,326.00	
60204	CONCRETE SIDEWALK, 4-INCH	S.F.	6,112.00	6,112.00	

60825	REINFORCED CONCRETE PIPE, CLASS III, STORM SEWER, 12-INCH	L.F.	1,644.00	1,644.00	
60826	REINFORCED CONCRETE PIPE, CLASS III, STORM SEWER, 15-INCH	L.F.	34.00	34.00	

61110	MANHOLES, TYPE 1	EACH	6.00	6.00	
61122	INLETS, TYPE 3	EACH	75.00	75.00	
61128	RECONSTRUCTING MANHOLES	EACH	4.00	4.00	

61182	ADJUSTING MANHOLE COVERS	EACH	28.00	28.00	
61183	ADJUSTING INLET COVERS	EACH	75.00	75.00	
61315	METALLIC CONDUIT, 3-INCH	L.F.	1,673.00	1,175.00	498.00
61911	MOBILIZATION, PROJECT 4984-00-42	L.S.	1.00	1.00	
61912	MOBILIZATION, PROJECT 6240-02-71	L.S.	1.00		1.00

SHEET 3

DATE 02/17/82

6240-02-71
QUANTITY4984-00-42
QUANTITY

TOTAL

UNIT

ITEM DESCRIPTION

ITEM

62001	CONCRETE CORRUGATED MEDIAN	S.F.	1,764.00	1,764.00
62301	CALCIUM CHLORIDE SURFACE TREATMENT	TON	10.00	10.00
62501	TOPSOIL	S.Y.	26,216.00	26,216.00
62702	MULCHING	S.Y.	24,100.00	24,100.00
62905	FERTILIZER, TYPE B	CWT.	17.00	17.00

63002	SEEDING	LB.	435.00	435.00
63101	SODDING	S.Y.	2,095.00	2,095.00
64201	FIELD OFFICE, TYPE A	L.S.	1.00	1.00
64302	TRAFFIC CONTROL, PROJECT 4984-00-42	L.S.	1.00	1.00
64303	TRAFFIC CONTROL, PROJECT 6240-02-71	L.S.	1.00	1.00

90001	TRAFFIC SIGNAL BASE, TYPE 1 MODIFIED	EACH	46.00	33.00	13.00
90002	INSTALL NEW MANHOLE CASTINGS	EACH	14.00	14.00	
90003	TRAFFIC SIGNALS, PROJECT 4984-00-42	L.S.	1.00	1.00	
90004	PRETIMED SIGNAL CONTROLLER, PROJECT 4984-00-42	L.S.	1.00	1.00	
90005	SIGNAL CONTROLLER TRAINING	L.S.	1.00	1.00	

90006	TRAFFIC SIGNALS, PROJECT 6240-02-71	L.S.	1.00		1.00
90007	PRETIMED SIGNAL CONTROLLER, PROJECT 6240-02-71	L.S.	1.00		1.00
90008	REMOVING SIGNAL BASE	EACH	9.00		9.00
90009	INTERSECTION COORDINATING UNIT	EACH	4.00	3.00	1.00
90010	PORTABLE CONTROLLER PROGRAMMER	L.S.	1.00	1.00	

90052	PAVEMENT TIES	EACH	69.00	69.00	
90089	SINGLE AGGREGATE BITUMINOUS MIX	TON	307.00	307.00	
90098	MINORITY BUSINESS ENTERPRISE DEVELOPMENT	L.S.	1.00	1.00	
90099	ON THE JOB TRAINING	HRS.	250.00	250.00	

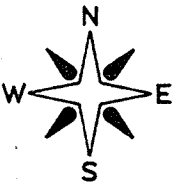
SHEET 3.1

DETAIL SUMMARY OF MISCELLANEOUS QUANTITIES

STATE PROJECT NUMBER	SHEET NO.
4982-0-42 8 6240-2-71	3A

CLEARING & GRUBBING			CONCRETE PAVEMENT, 7 INCH		CONCRETE SIDEWALK, 4 INCH		SODDING		PROJECT I.D. 6240-2-71	
LOCATION	CLEARING IN. DIA.	GRUBBING IN. DIA.	LOCATION	SQ. YDS.	LOCATION	SQ. FT.	LOCATION	SQ. YDS	LOCATION	LIN. FT.
NORTHLAND AVENUE			SERVICE ROAD		NORTHLAND AVENUE		NORTHLAND AVENUE MEDIAN		METAL CONDUIT, 3-INCH	
83+95.5	77' RT.	18	80+53.7	84+00	806	77+08	77+18	77+18	78+00	41
84+36.4	71' RT.	18	84+00	88+00	889	79+84.3	83+00	78+00	79+84.3	108
88+12	57' LT.	14	88+00	93+00	1,103	83+00	88+00	83+43.3	87+43.3	439
89+06	67' RT.	15	93+00	98+00	1,178	88+00	93+00	91+43.9	93+00	142
89+12	56' LT.	12	98+00	103+00	1,221	93+00	98+00	93+00	96+44.2	414
89+81.7	64' RT.	16	103+00	104+86	413	98+00	103+00	100+48.2	103+00	280
95+57	68' RT.	8	CONCRETE PAVEMENT, 9 INCH.		103+00	108+50	803	103+00	104+82.3	180
95+91.7	64' RT.	6	NORTHLAND AVENUE		108+50	111+80.6	191	109+05.3	111+71	157
96+28.2	67' RT.	8	LOCATION		RICHMOND STREET		RICHMOND STREET MEDIAN		INTERSECTION OF:	
104+25	68' RT.	13	75+84.3		8+40.4		6+70		NORTHLAND AVE. & RICHMOND ST.	
RICHMOND STREET			78+00		10+78.6		15+13.7		9	
15+43	32' RT.	10	83+00		14+13		SINGLE AGGREGATE BITUMINOUS MIX		REMOVING SIGNAL BASE	
REMOVING PAVEMENT			88+00		MASON STREET		LOCATION		LOCATION	
LOCATION		SQ. YDS.	93+00		9+37		NORTHLAND AVENUE		INTERSECTION OF:	
NORTHLAND AVENUE			98+00		9+37		75+74.3		NORTHLAND AVE. & RICHMOND ST.	
75+74.3	78+00	502	103+00		SERVICE ROAD 80+68 LT. & RT.		84+50, RT. DW			
78+00	83+00	1,111	108+50		METAL CONDUIT, 3 INCH		88+72, RT. DW			
83+00	88+00	1,160	RICHMOND STREET		LOCATION		89+70, LT. DW			
88+00	93+00	1,111	5+73.7		INTERSECTION OF:		93+28, RT. DW			
93+00	98+00	1,116	10+78.6		NORTHLAND AVE. & BENNETT ST.		98+71.2, LT. DW			
98+00	103+00	1,126	14+00		NORTHLAND AVE. & SHOPKO		102+80			
103+00	108+50	2,144	CONCRETE DRIVEWAY		NORTHLAND AVE. & MASON ST.		110+50, RT. DW			
108+50	113+25.3	1,056	LOCATION		CONCRETE CORRUGATED MEDIAN		110+75, LT. DW			
RICHMOND STREET			SERVICE ROAD		LOCATION		111+75, LT. DW			
5+73.7	9+32.9	1,956	84+35 RT.		NORTHLAND AVENUE		113+05.3			
10+78.6	14+00	1,750	85+65 RT.		76+25		RICHMOND STREET			
14+00	17+90	2,083	86+97 RT.		111+83		5+68.7			
SERVICE RD. & MASON ST.			88+73 RT.		RICHMOND STREET		6+50, RT. DW			
80+48	80+57	31	92+19 RT.		5+95.9		6+65, LT. DW			
REMOVING BITUMINOUS SURFACE			CURB & GUTTER, 18 INCH, TYPE "A"		16+49		13+55, RT. DW			
LOCATION		SQ. YDS.	LOCATION		TOPSOIL		13+80, LT. DW			
RICHMOND STREET			NORTHLAND AVENUE		LOCATION		16+70, LT. DW			
5+68.7	5+73.7	24	77+06.5		NORTHLAND AVENUE		PAVEMENT TIES			
REMOVING CONCRETE SIDEWALK			78+00		75+74.3		LOCATION			
LOCATION		SQ. YDS.	83+00		78+00		MASON STREET			
SERVICE ROAD			88+00		83+00		9+37.5			
80+67		36	93+00		88+00		RICHMOND STREET			
CRUSHED AGGREGATE BASE COURSE			98+00		93+00		5+73.7			
LOCATION		TONS	103+00		98+00		17+80.4			
NORTHLAND AVENUE			108+50		103+00		SERVICE ROAD			
75+74.3	78+00	260	113+25.3		108+50		80+49			
78+00	83+00	925	RICHMOND STREET		5+73.7		TRAFFIC SIGNAL BASE, TYPE I MODIFIED			
83+00	88+00	726	5+73.7		10+78.6		LOCATION			
88+00	93+00	873	14+00		14+00		NORTHLAND AVE. & BENNETT ST.			
93+00	98+00	726	CURB & GUTTER, 30 INCH, TYPE "A"		NORTHLAND AVENUE		NORTHLAND AVE. & SHOPKO			
98+00	103+00	809	LOCATION		75+84.3		NORTHLAND AVE. & MASON ST.			
103+00	108+50	1,067	78+00		78+00					
108+50	113+25.3	925	83+00		83+00					
SERVICE ROAD			88+00		88+00					
84+00	88+00	273	93+00		93+00					
88+00	93+00	298	98+00		98+00					
93+00	98+00	305	103+00		103+00					
98+00	103+00	340	108+50		108+50					
103+00	108+50	178	RICHMOND STREET		108+50					
80+54.7	84+00	202	5+73.7		110+55.3					
RICHMOND STREET			80+54.7		SERVICE ROAD					
5+73.7	9+32.9	468	84+00		80+54.7					
10+78.6	14+00	490	88+00		84+00					
14+00	17+80.4	504	93+00		88+00					
			98+00		93+00					
			103+00		98+00					
			108+50		103+00					
			RICHMOND STREET		108+50					
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					103+00					
					108+50					
					RICHMOND STREET					
			5+73.7		SERVICE ROAD					
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					108+50					
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					93+00					
					98+00					
					103+00					
					108+50					
					RICHMOND STREET					
			5+73.7		SERVICE ROAD					
			10+78.6		80+59					
			14+00		84+00					
					88+00					
					93+00					
					9					

PART OF THE CITY OF APPLETON

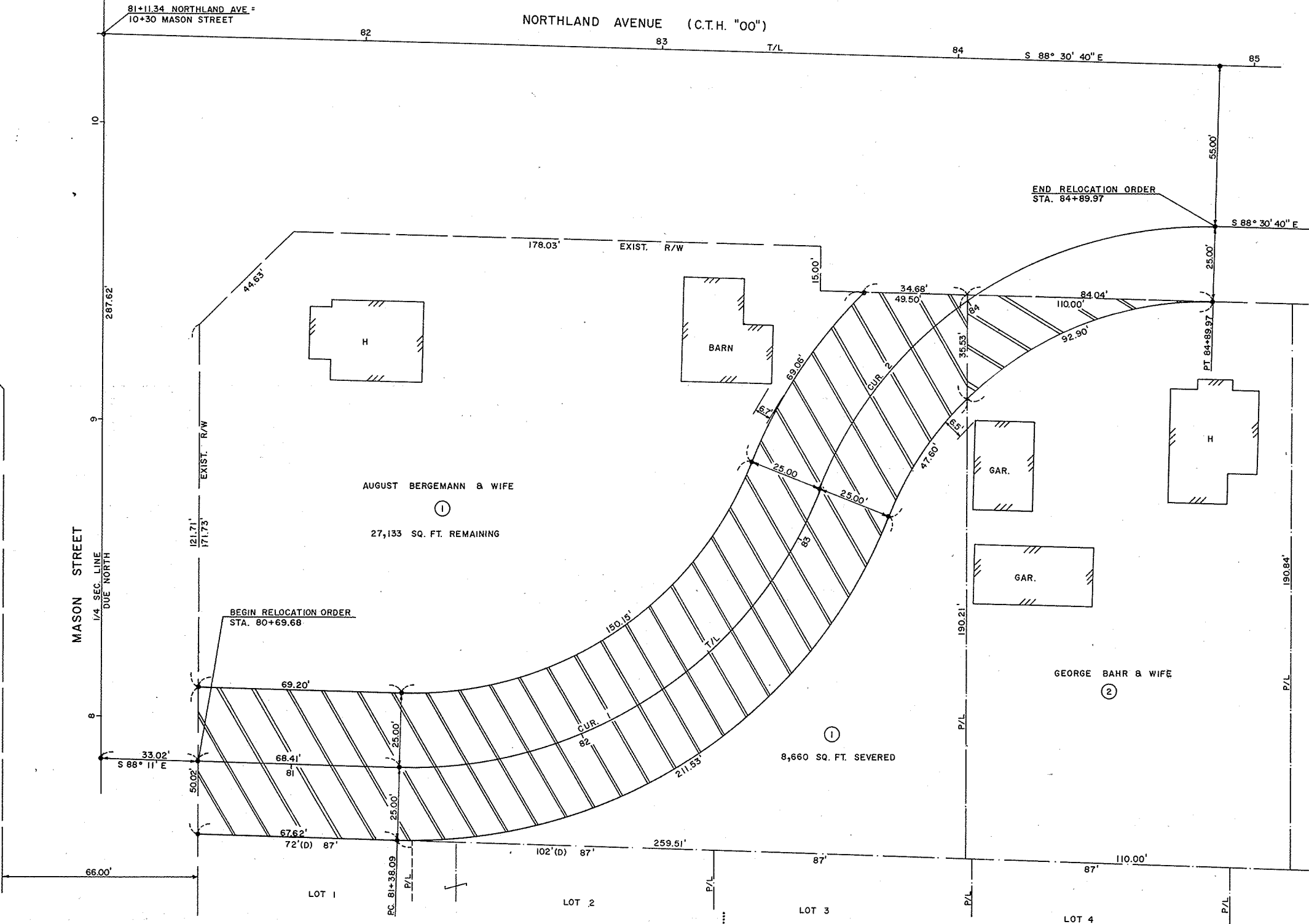


CURVE DATA								
CURVE NO.	P.C.	P.I.	P.T.	D	Δ	L	R	L.C.
1.	81+38.09	82+41.88	83+18.93	38° 53' 32"	70° 19' 40"	180.84'	147.33'	103.79'
2.	83+18.93	84+16.96	84+89.97	40° 55' 43"	70° 00' 00"	171.04'	140.00'	98.03'

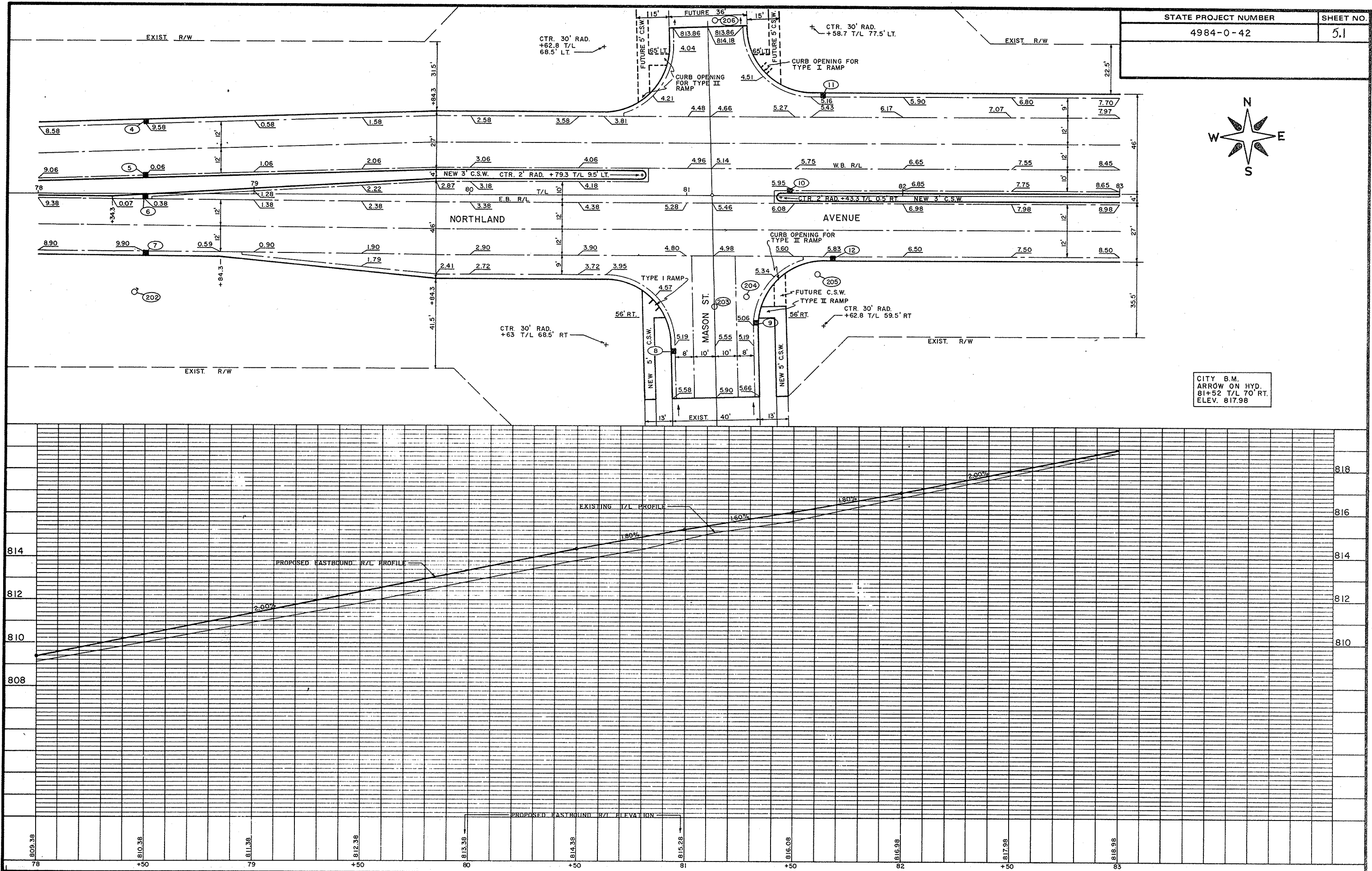
REVISION DATE	R/W PROJECT NUMBER 4984-0-41	SHEET NUMBER 4.1
	FEDERAL PROJECT NUMBER	
	PLAT OF RIGHT OF WAY REQUIRED FOR NORTHLAND AVENUE SERVICE ROAD (MASON STREET TO 420' EAST) C.T.H. "00" OUTAGAMIE COUNTY	
	SCALE: 0 20 40 Ft.	
	CONSTRUCTION PROJECT NUMBER 4984-00-42	4

SCHEDULE OF LANDS AND INTERESTS REQUIRED

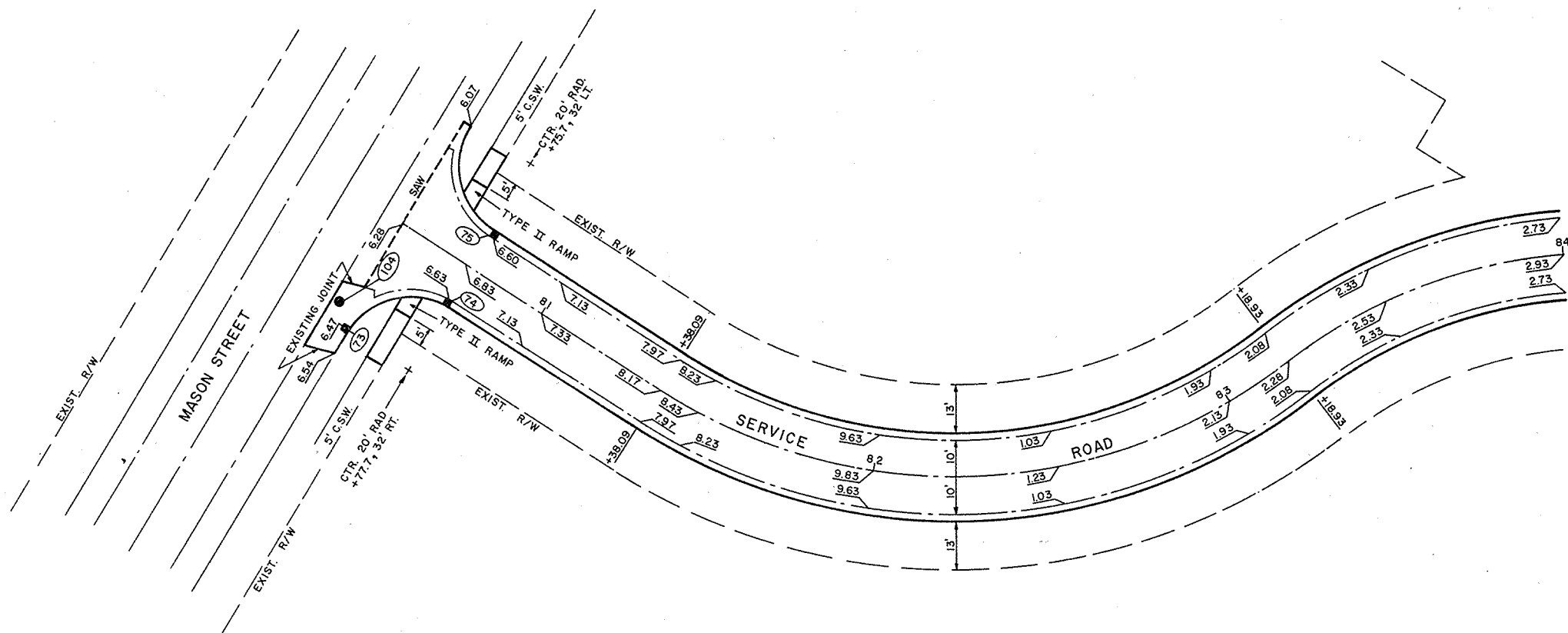
PARCEL NUMBER	OWNER	INTEREST REQUIRED	SQ. FT. NEW R/W REQUIRED	TOTAL REMAINING SQ. FT.
1	AUGUST BERGEMANN & WIFE	FEE	15,996	35,793
2	GEORGE BAHR & WIFE	FEE	946	20,012



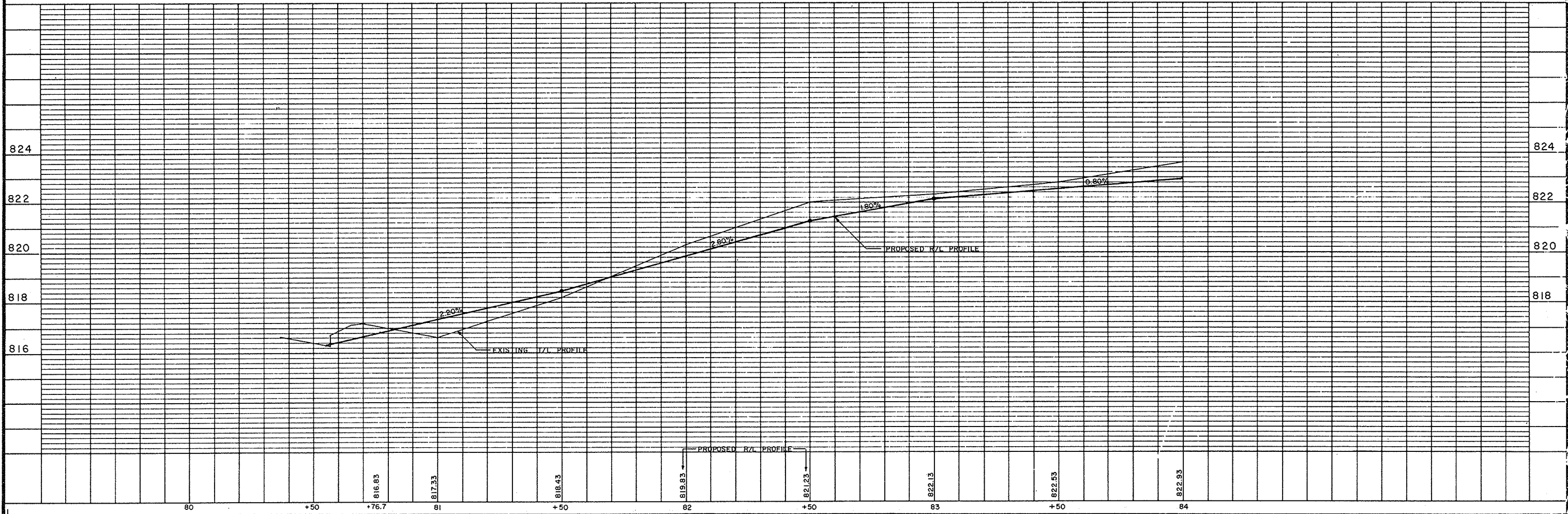
GAUTHIER PLAT NO. 1

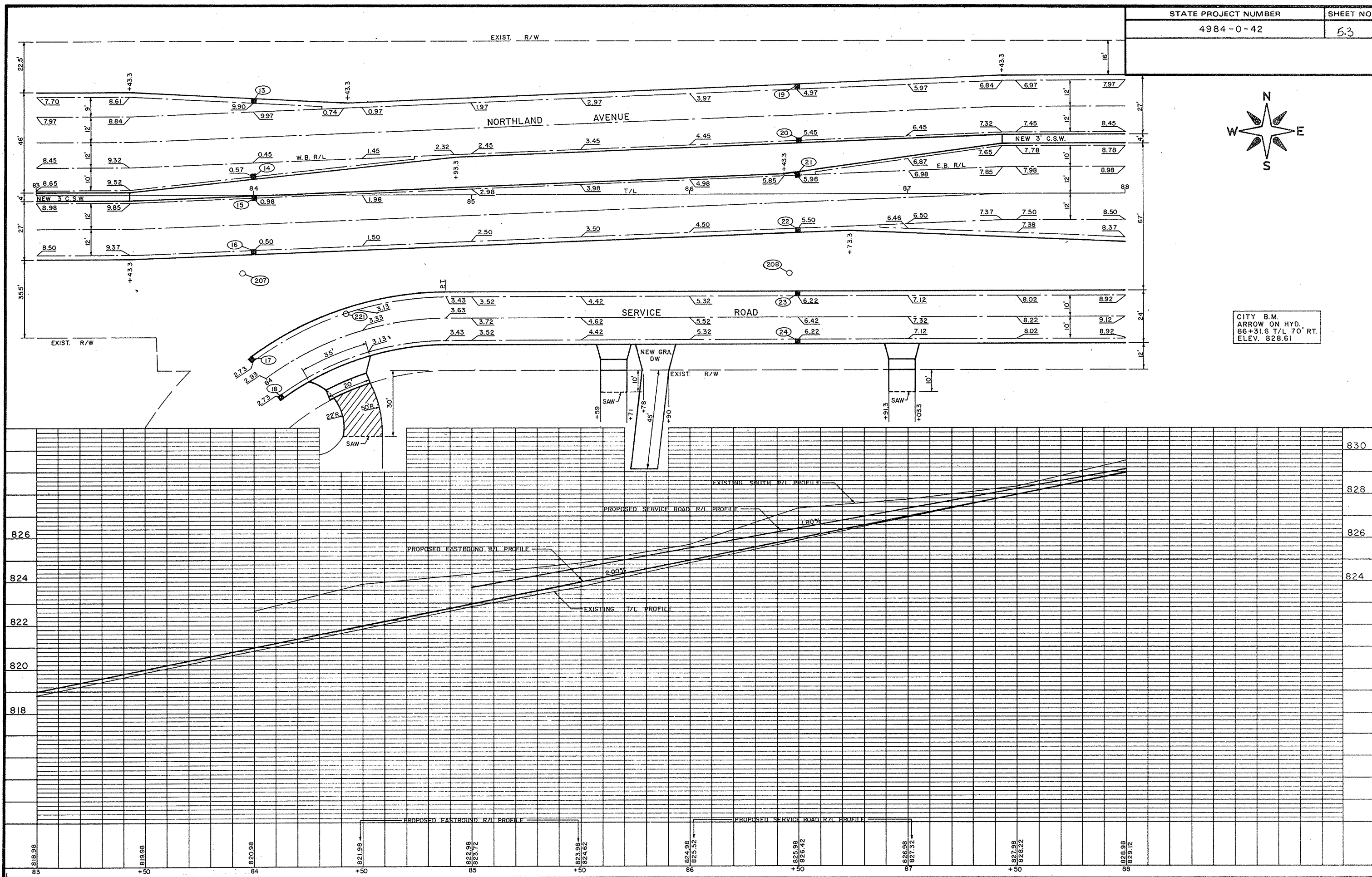


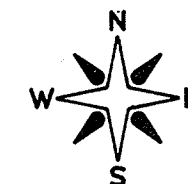
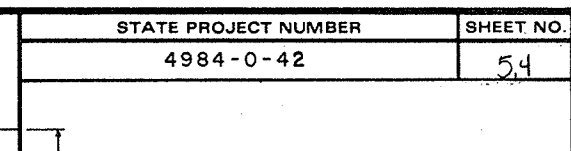
STATE PROJECT NUMBER	SHEET NO.
4984-0-42	52
SERVICE ROAD	



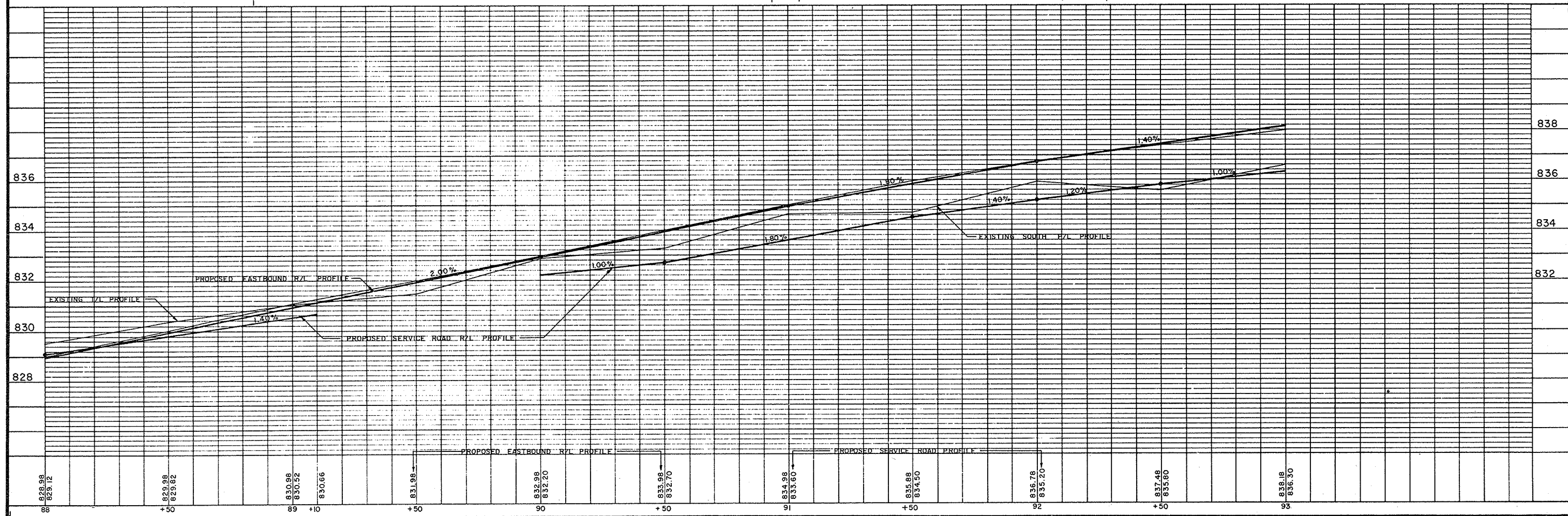
CITY B.M.
ARROW ON HYD.
81+52, 70' RT.
NORTHLAND AVE. T/L
ELEV. 817.98

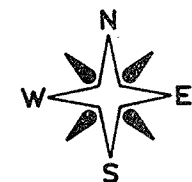
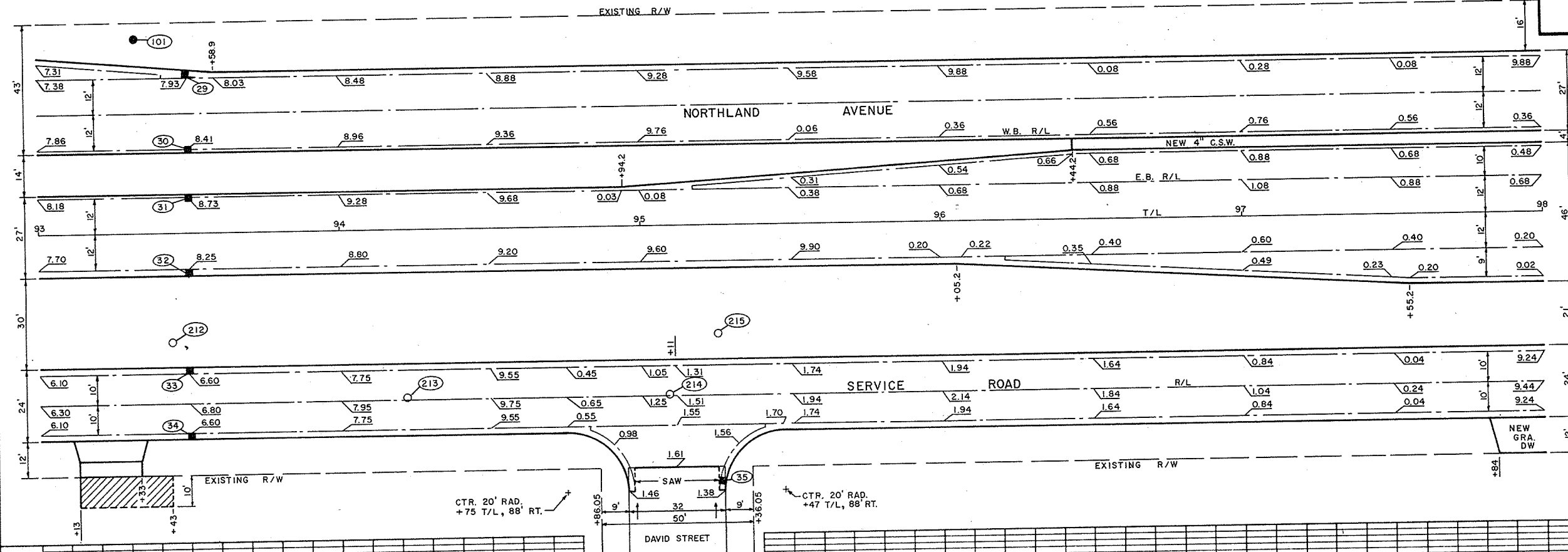




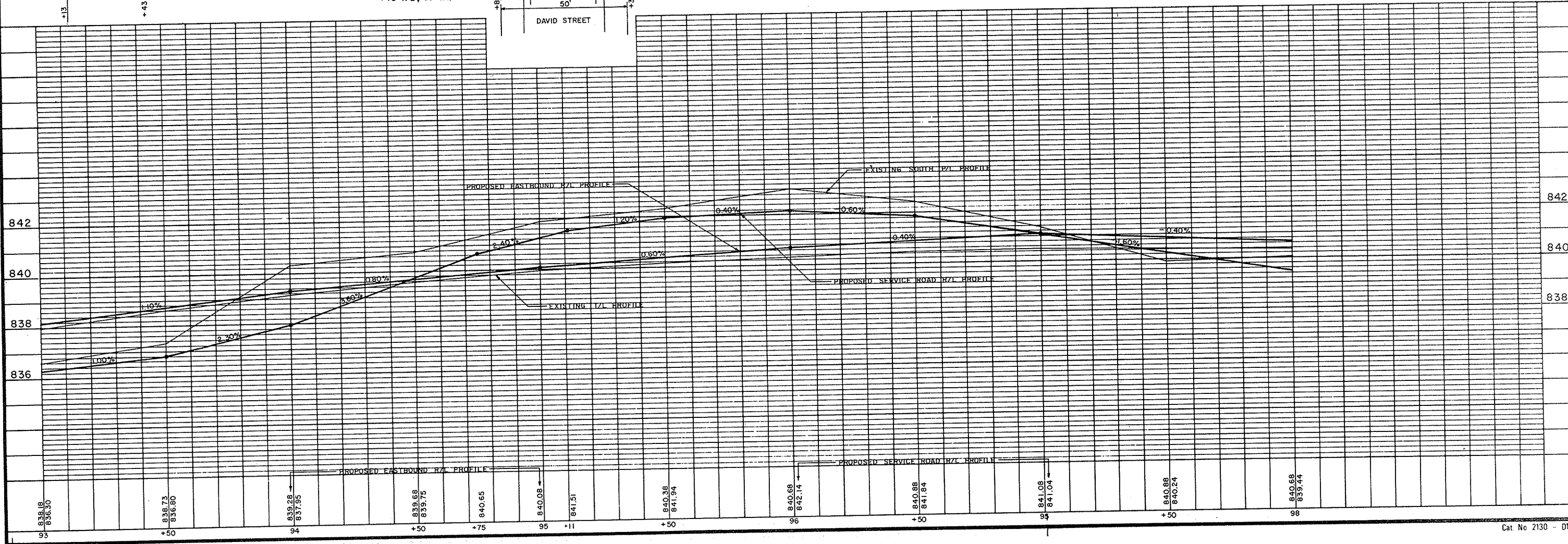


CITY B.M.
ARROW ON HYD.
90+81 T/L 71' RT
ELEV. 836.52

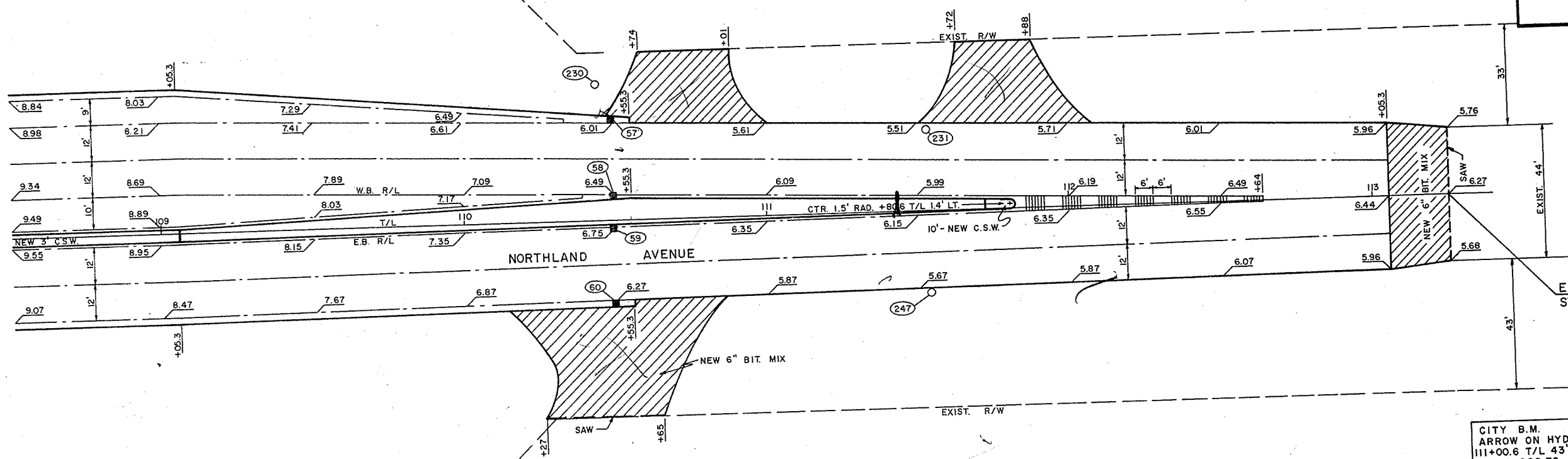
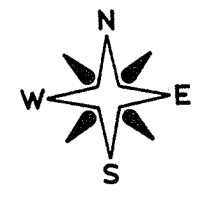




CITY B.M.
ARROW ON HYD.
94+91.5 T/L 85' RT.
ELEV. 843.41

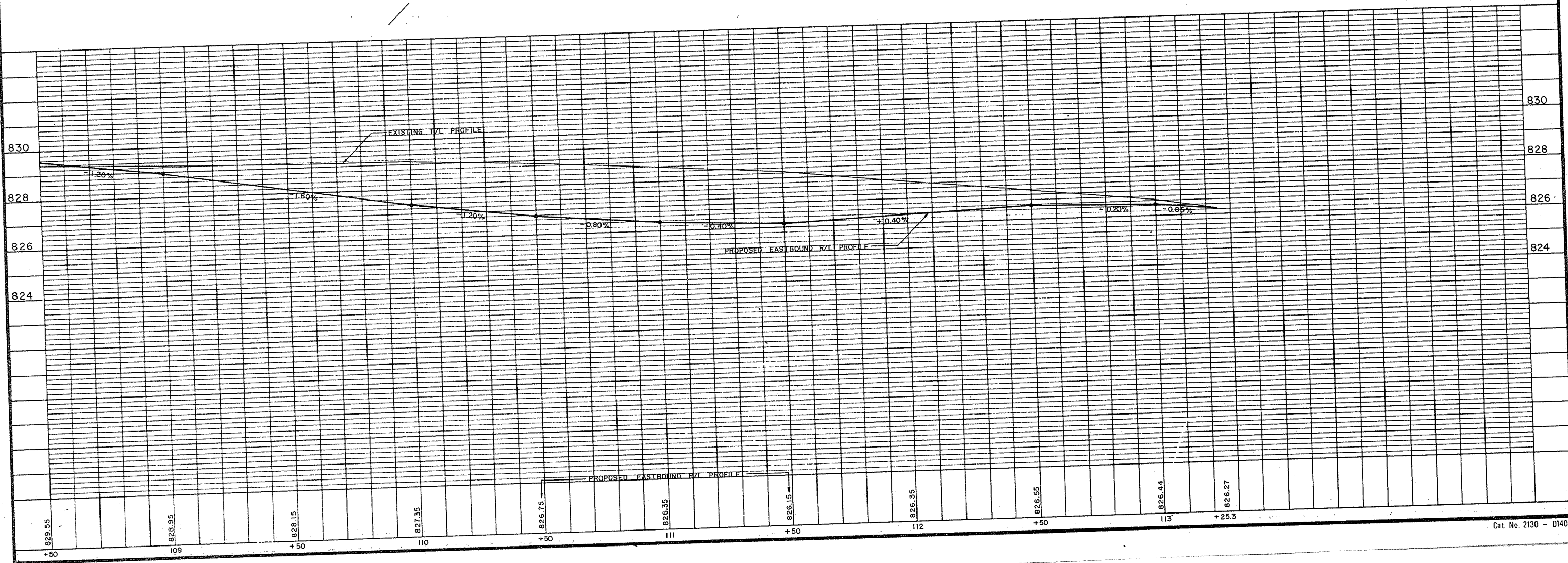


STATE PROJECT NUMBER	SHEET NO.
4984-0-42	5.8

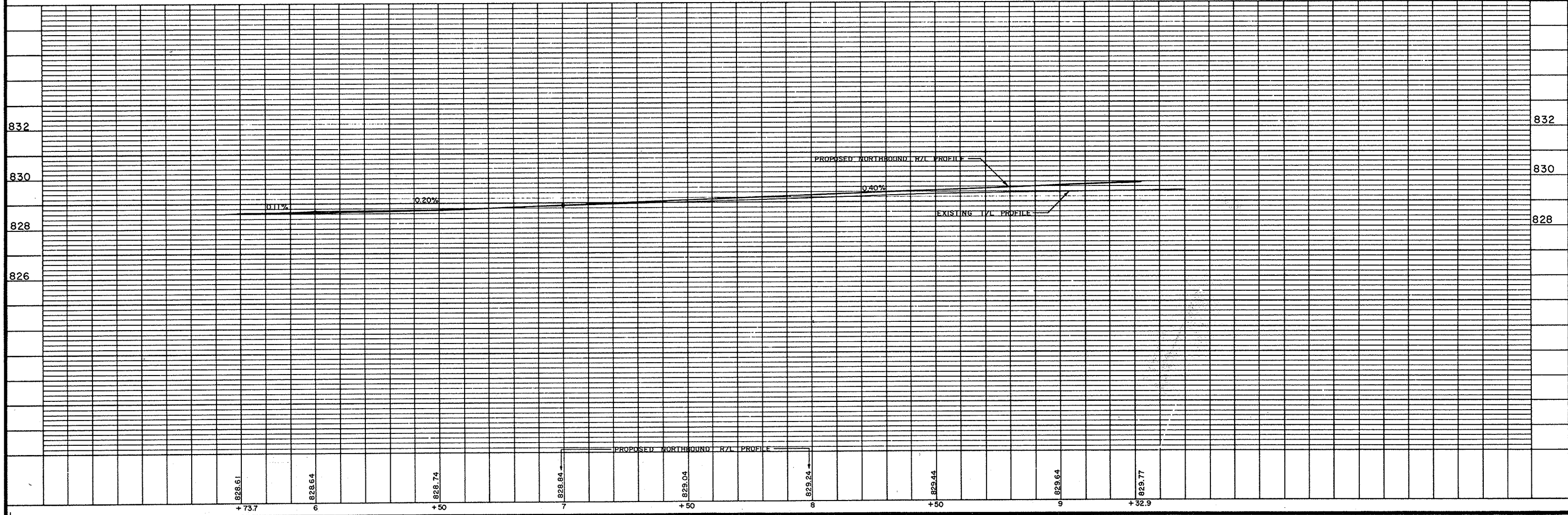
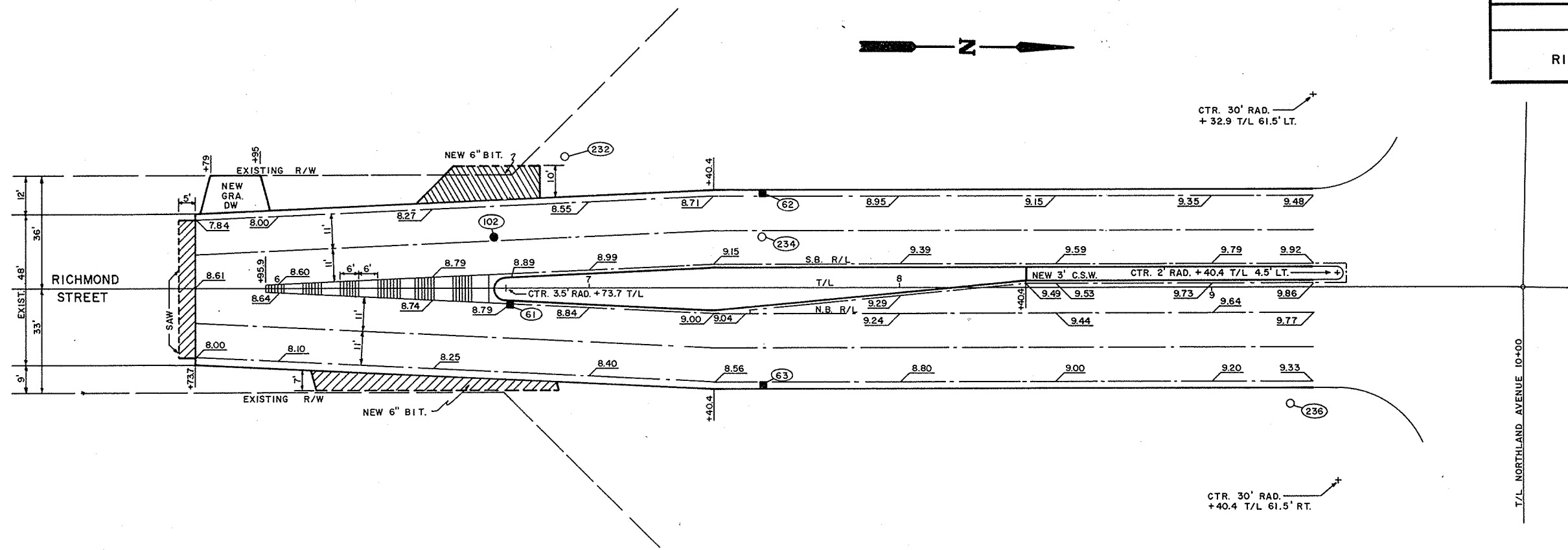


END PROJECT 4984-0-42
STATION 113+25.3

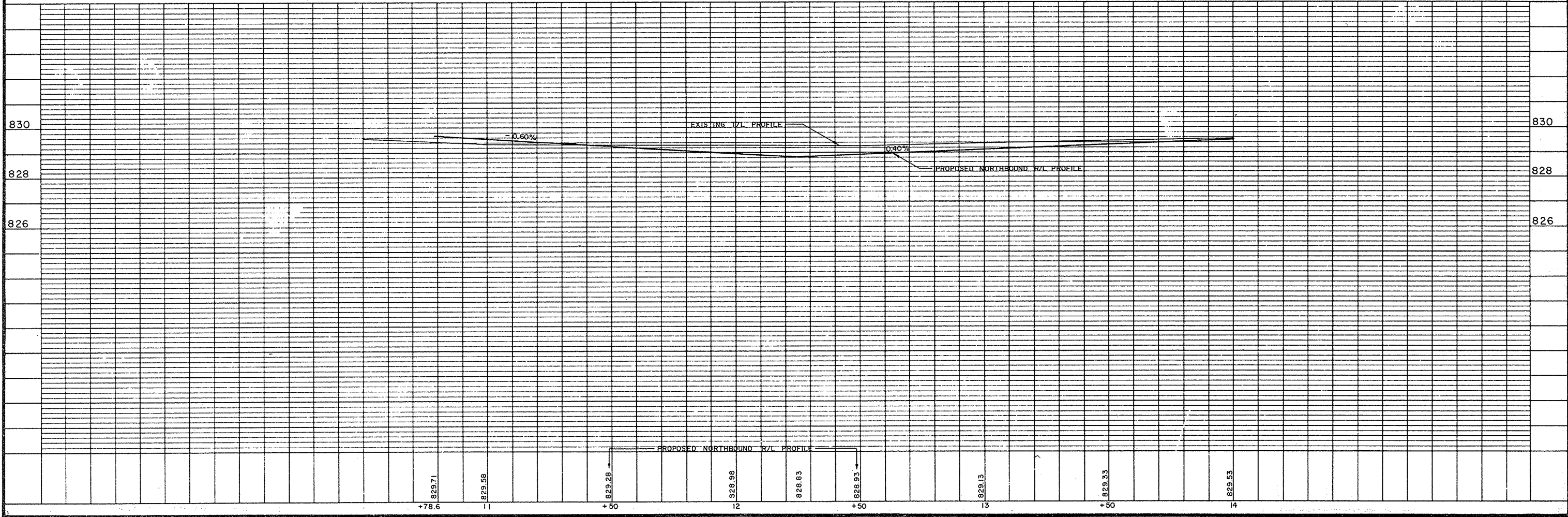
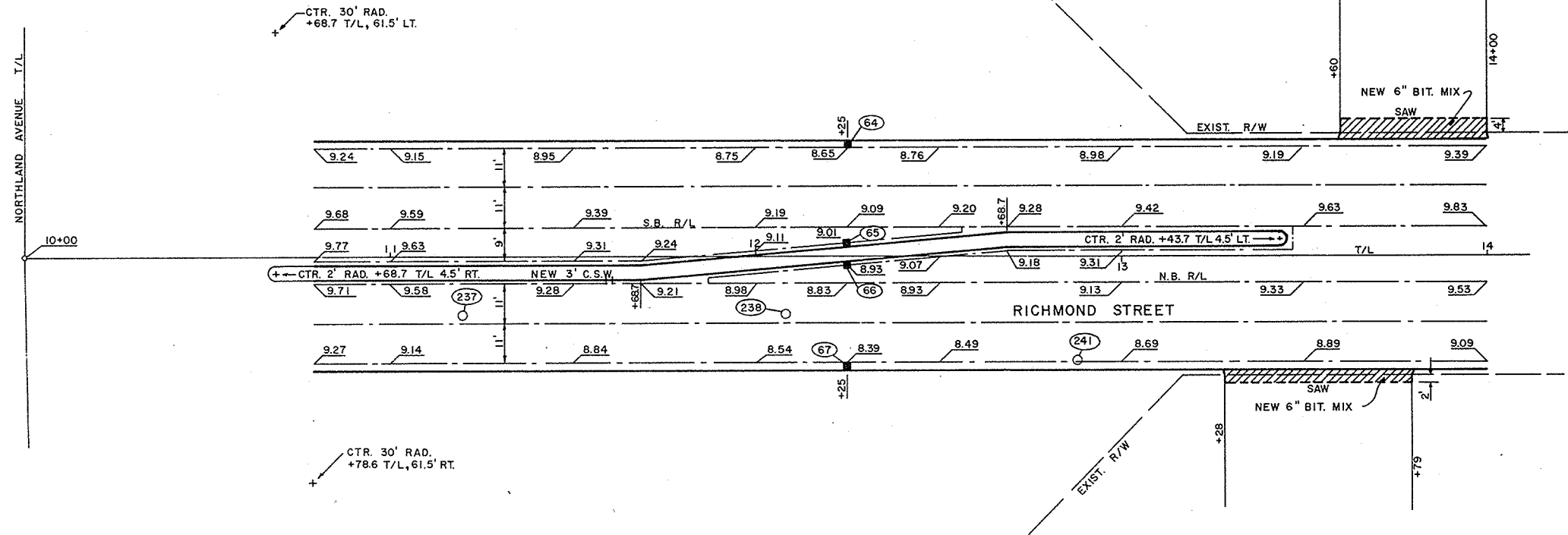
CITY B.M.
ARROW ON HYD.
111+00.6 T/L 45' RT.
ELEV. 828.76



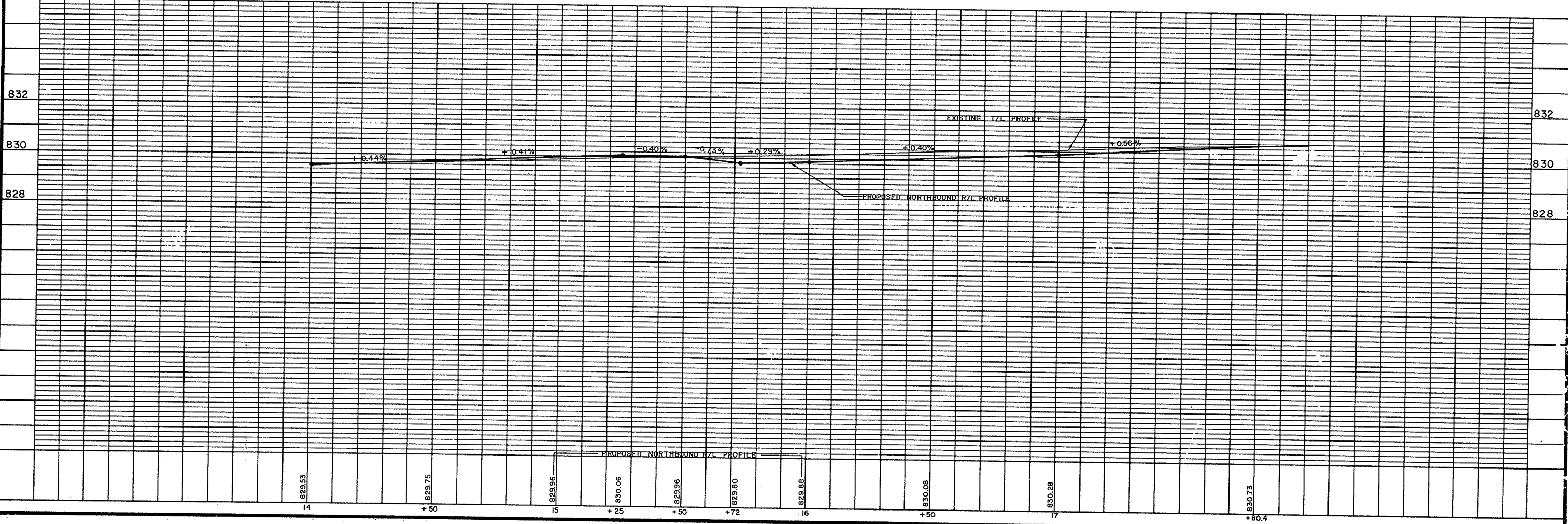
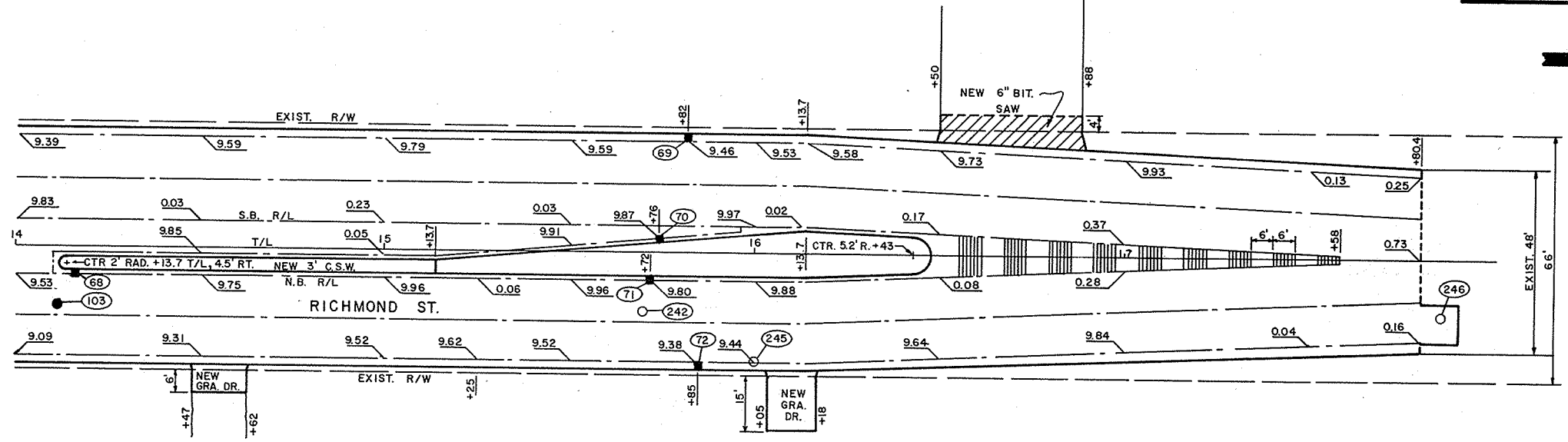
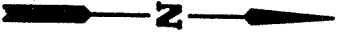
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4984-0-42	59
RICHMOND STREET	

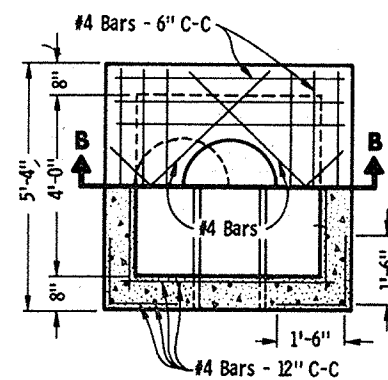


STATE PROJECT NUMBER	SHEET NO.
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RICHMOND STREET	

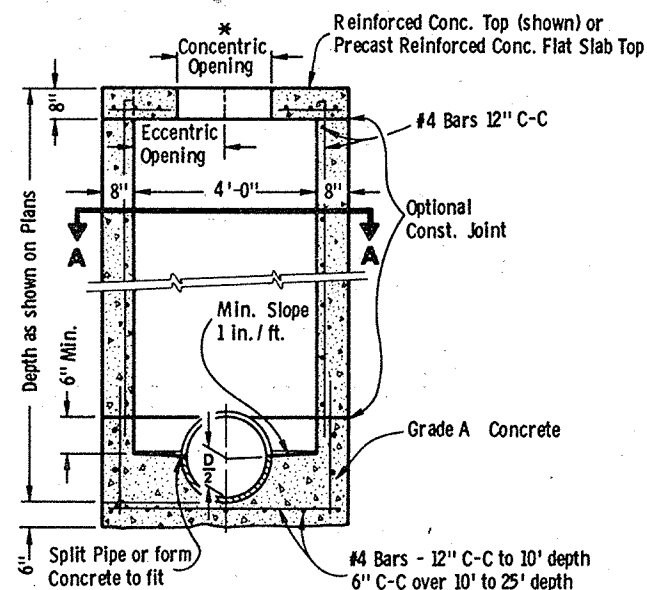


STATE PROJECT NUMBER	SHEET NO.
4984-0-42	511
RICHMOND STREET	

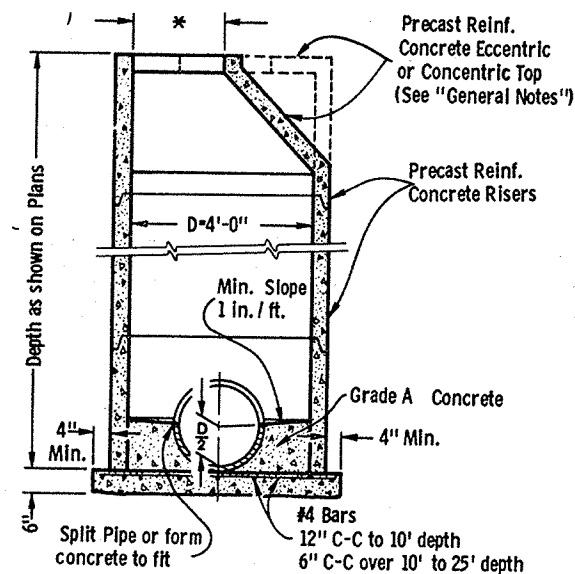




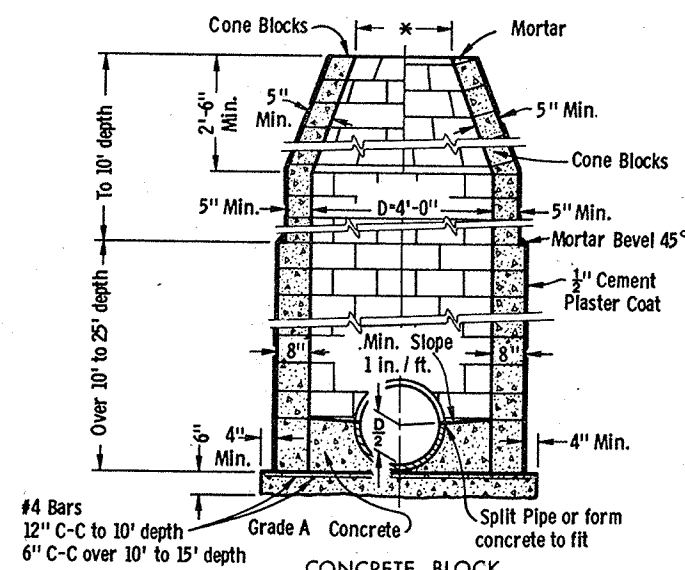
HALF SECTION A-A



SECTION B-B
REINFORCED CONCRETE



PRECAST REINFORCED CONCRETE



CONCRETE BLOCK

GENERAL NOTES

Details of construction, materials and workmanship not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications and the applicable Special Provisions.

Detailed drawings for proposed alternate designs for underground drainage structures shall be submitted to the Engineer for approval providing that such alternate designs make provision for equivalent capacity and strength.

All drainage structures are designated on the plans as "Manholes 1 - C", "Catch Basins 1 - B", "Inlets 1 - H", etc. The first digit designates the masonry portion of the structure, and the following letter designates the type of cover to be used to comprise the complete unit.

Precast Reinforced Bases shall be placed on a bed of material at least 6 inches in depth, which meets the requirements for Granular Backfill. This bedding shall be compacted and provide uniform support for the entire area of the base.

Precast Reinforced Concrete Cone Tops (Eccentric or Concentric) may be used on concrete block structures. The Cone Tops shall be installed on a bed of mortar.

Eccentric Cone Tops may be used on all structures, and Concentric Cone Tops shall be used only on structures 5 feet or less in depth, unless otherwise directed by the Engineer.

Steps meeting the following requirements shall be installed in all structures over 5 feet in depth: 16 inch C-C maximum spacing; project a minimum clear distance of 4 inches from the wall at the point of embedment; minimum length of 10 inches; minimum wall embedment of 3 inches; and be capable of supporting a concentrated load of 300 lbs. Ferrous metal steps not painted or treated to resist corrosion shall have a minimum cross sectional dimension of 1 inch.

Solid Aluminum steps shall have a minimum cross sectional dimension of 0.75 inch. Aluminum surfaces to be embedded in concrete shall be given one coat of suitable quality paint, such as zinc chromate primer conforming to federal specification TT-P-645 or equivalent. Steps of approved Polypropylene plastic coated reinforcement bar will be acceptable.

All bar steel reinforcement shall be embedded 2 inches clear unless otherwise shown or noted.

Precast Reinforced Concrete Risers may be placed with tongue up or down.

* Use 2'-0" diameter opening with type "C", "L" and "J" covers, or 3'-0" diameter with type "K" and "M" covers.

MANHOLES TYPE I

State of Wisconsin
Department of Transportation
Division of Highways

RECOMMENDED FOR APPROVAL

12-3-75
DATE

L. C. Henrich
CHIEF - 1st CLASS, BIRMINGHAM, ALABAMA

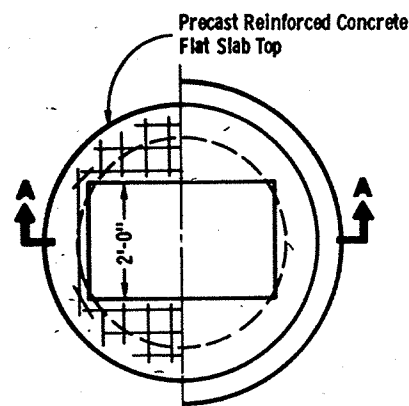
APPROVED

[Signature]
STATE HIGHWAY ENGINEER

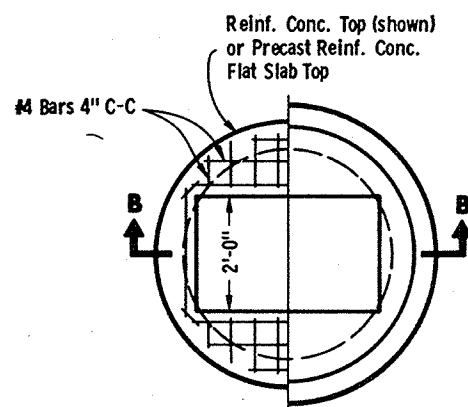
MANHOLES TYPE 1

S.D.D. 8 B6-2

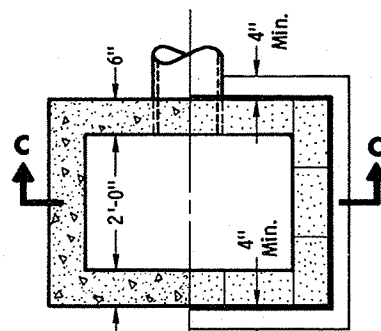
S.D.D. 8 B6-2



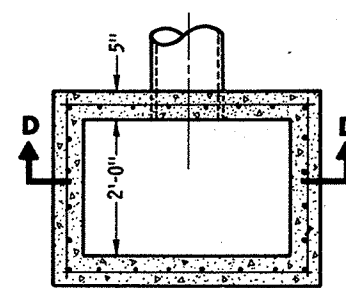
PLAN VIEW



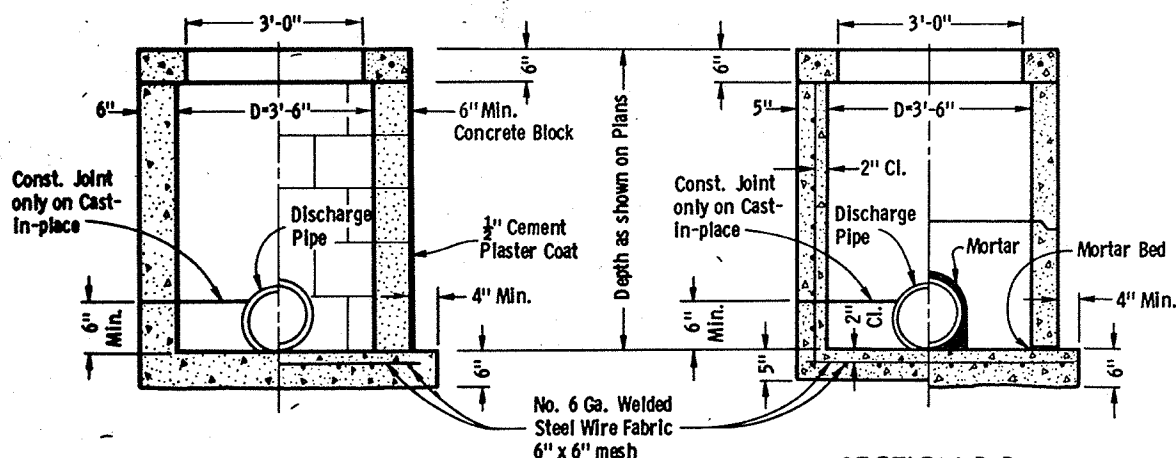
PLAN VIEW



PLAN VIEW

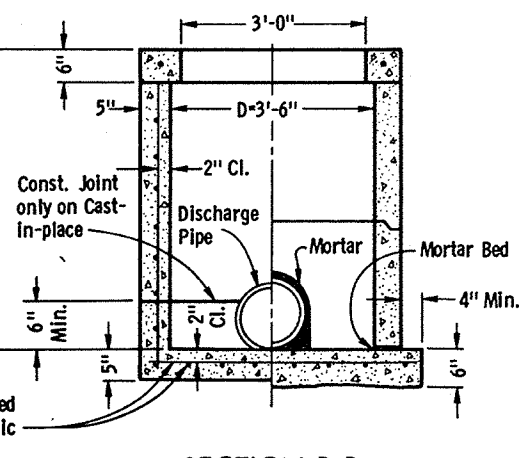


PLAN VIEW



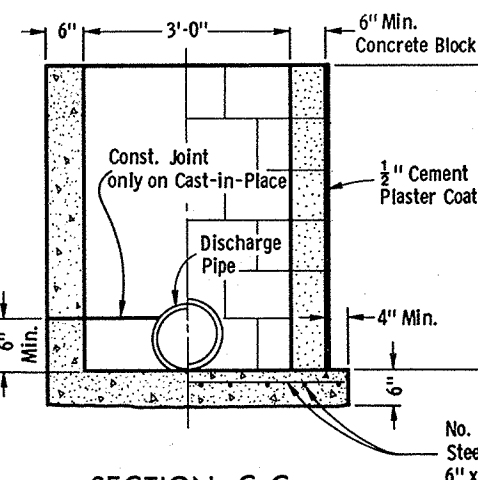
SECTION A-A

MONOLITHIC
CONCRETE



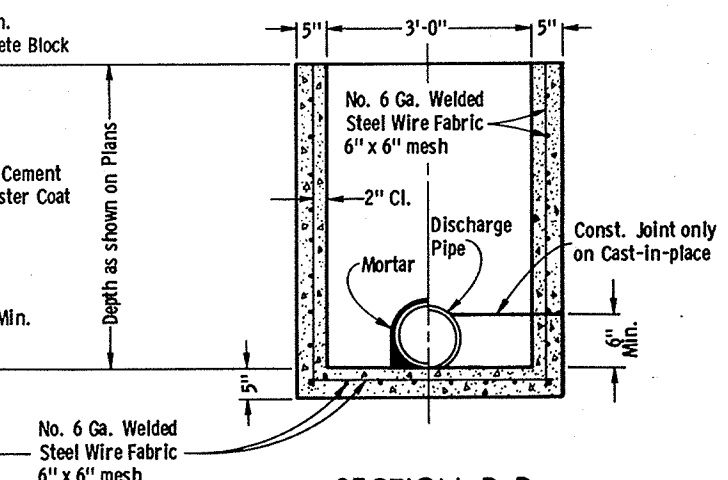
SECTION B-B

REINFORCED
CONCRETE



SECTION C-C

MONOLITHIC
CONCRETE



SECTION D-D

PRECAST
REINFORCED
CONCRETE

INLETS TYPE 3

GENERAL NOTES

Details of construction, materials and workmanship not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications and the applicable Special Provisions. Detailed drawings for proposed alternate designs for underground drainage structures shall be submitted to the Engineer for approval providing that such alternate designs make provision for equivalent capacity and strength.

Square Precast Inlet units shall conform to the pertinent requirements of AASHTO Designation M 199.

All drainage structures are designated on the plans as "Manholes 1 - C", "Catch Basins 1 - B", "Inlets 1 - H", etc. The first digit designates the masonry portion of the structure, and the following letter designates the type of cover to be used to comprise the complete unit.

Precast Reinforced Bases shall be placed on a bed of material at least 6 inches in depth, which meets the requirements for Granular Backfill. This bedding shall be compacted and provide uniform support for the entire area of the base.

Precast Reinforced Concrete Flat Slab Tops may be used on the structures. The Tops shall be installed on a bed of mortar.

All bar steel reinforcement shall be embedded 2 inches clear unless otherwise shown or noted.

Precast Reinforced Concrete Risers may be placed with tongue up or down.

INLETS TYPE 3

State of Wisconsin
Department of Transportation
Division of Highways

RECOMMENDED FOR APPROVAL:

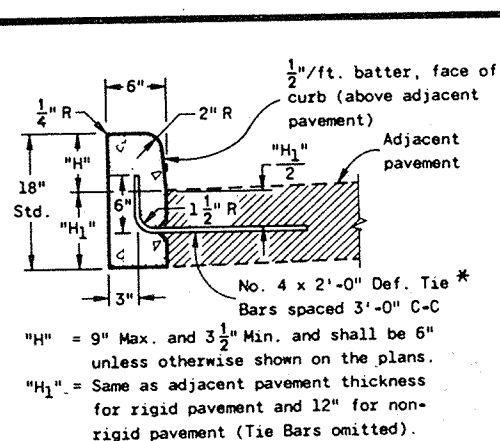
10-16-75
DATE

J. C. Thomas
CHIEF OF FACILITIES DEVELOPMENT

APPROVED

10-16-75
DATE

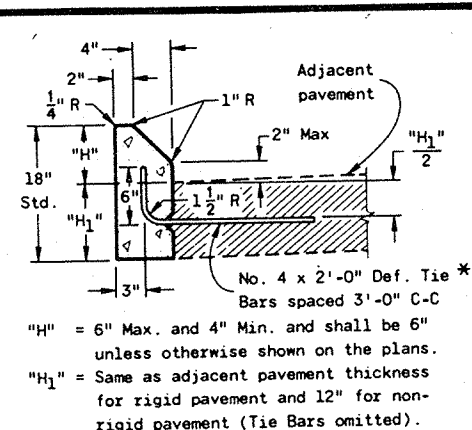
W. J. Sinden
STATE HIGHWAY ENGINEER



TYPE "A"
(INCLUDING TIE BARS)

CONCRETE CURB

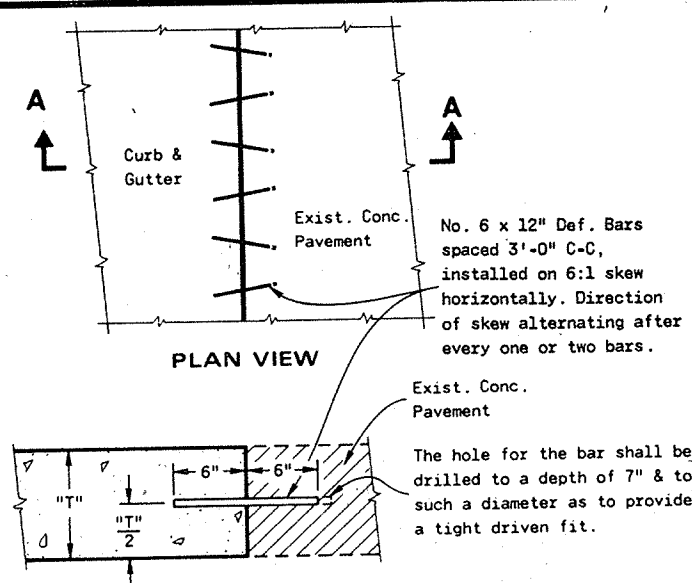
TYPE "D"
(EXCLUDING TIE BARS)



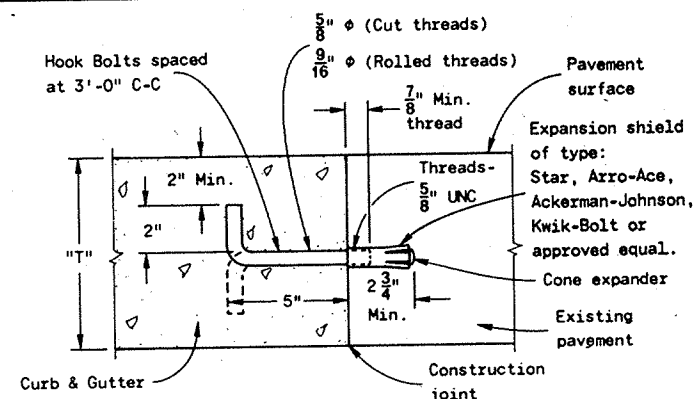
TYPE "G"
(INCLUDING TIE BARS)

CONCRETE CURB

TYPE "J"
(EXCLUDING TIE BARS)



SECTION A - A
PAVEMENT TIES EXISTING PAVEMENT
(Driven Tie Bar Alternate)



PAVEMENT TIES EXISTING PAVEMENT
(Hook Bolt Alternate)

GENERAL NOTES

Details of construction, materials and workmanship not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications and the applicable Special Provisions.

Joints shall not be sealed in concrete curb, or concrete curb & gutter.

* In lieu of tie bars placed during construction, the Driven Tie Bar Alternate may be used. Contractor may drill either concrete curb, concrete curb & gutter, or concrete pavement.

Where the adjacent pavement will be bituminous concrete, 3/4 inch expansion joints shall be installed in the Concrete Curb or Concrete Curb & Gutter. These expansion joints shall be located about 3 feet from each end of all catch basins or inlets, at all locations where tangent and radial curb and gutter meet, and on tangent sections at a maximum spacing of 300 feet.

The bottom of the curb and gutter may be constructed parallel to subgrade or base course provided a minimum of 6 inches depth of concrete is maintained at the flow line.

INTEGRAL CURB AND GUTTER ALTERNATE
Unless otherwise specified in the contract, Integral Curb & Gutter may be built as an alternate to Curb & Gutter.

Integral Curb & Gutter shall be measured and paid for as Curb & Gutter.

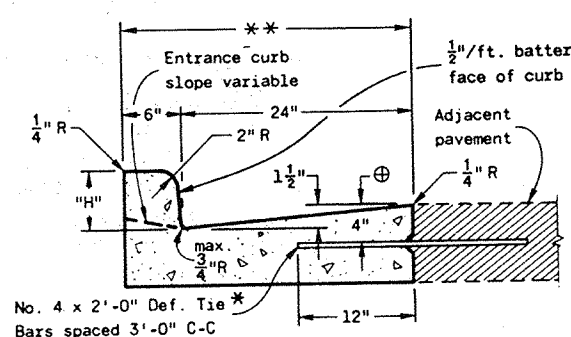
* Pay limits for Concrete Integral Curb & Gutter.

The limits of the base course, if used, are shown on the typical cross sections elsewhere in the plans. Any additional width of base course necessary to accommodate paving equipment will be at the contractor's expense.

Pavement reinforcing steel and load transfer dowels will not be required within the pay limits of Integral Curb & Gutter.

Contraction, construction or expansion joints shall be continuous through the Integral Curb & Gutter. The joints in Integral Curb & Gutter shall be spaced the same as the joints in the pavement.

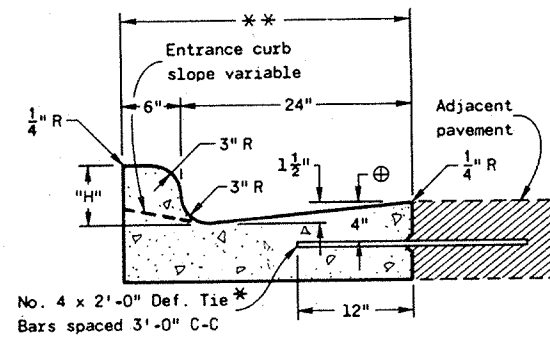
The thickness of curb & gutter at the pavement edge shall be 7 1/2 inch minimum. ⊕ = Or center of pavement, whichever is less.



TYPE "A"
(INCLUDING TIE BARS)

TYPE "D"
(EXCLUDING TIE BARS)

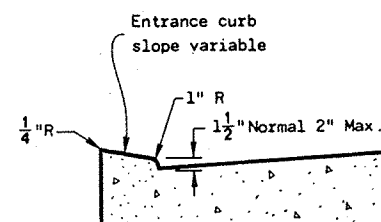
CONCRETE CURB & GUTTER 30"



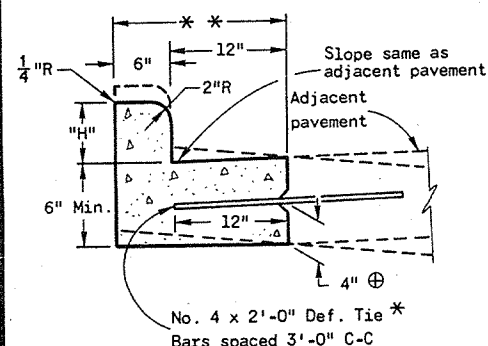
"H" = 9" Max. 3 1/2" Min. and shall be 6" unless otherwise shown on the plans.

TYPE "K"
(INCLUDING TIE BARS)

TYPE "L"
(EXCLUDING TIE BARS)



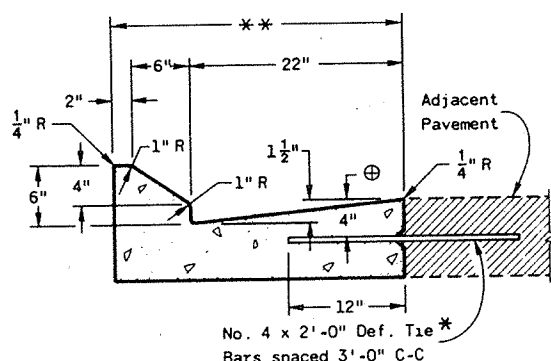
ALTERNATE ENTRANCE CURB
(When directed by the Engineer)



TYPE "A"
(INCLUDING TIE BARS)

TYPE "D"
(EXCLUDING TIE BARS)

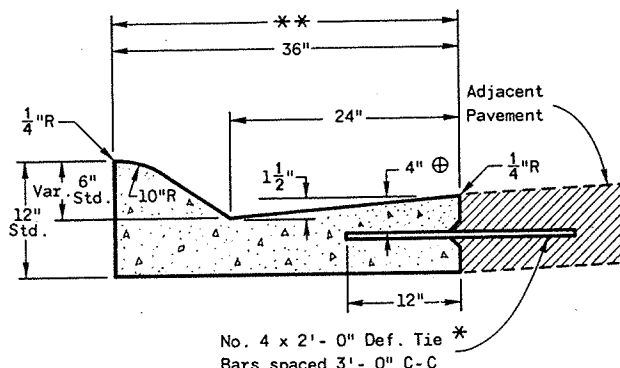
CONCRETE CURB & GUTTER 18"



TYPE "G"
(INCLUDING TIE BARS)

TYPE "J"
(EXCLUDING TIE BARS)

CONCRETE CURB & GUTTER 30"



TYPE "A"
(INCLUDING TIE BARS)

TYPE "D"
(EXCLUDING TIE BARS)

CONCRETE CURB & GUTTER 36"

CONCRETE CURB & GUTTER

CONCRETE CURB, CONCRETE CURB & GUTTER, or INTEGRAL CURB

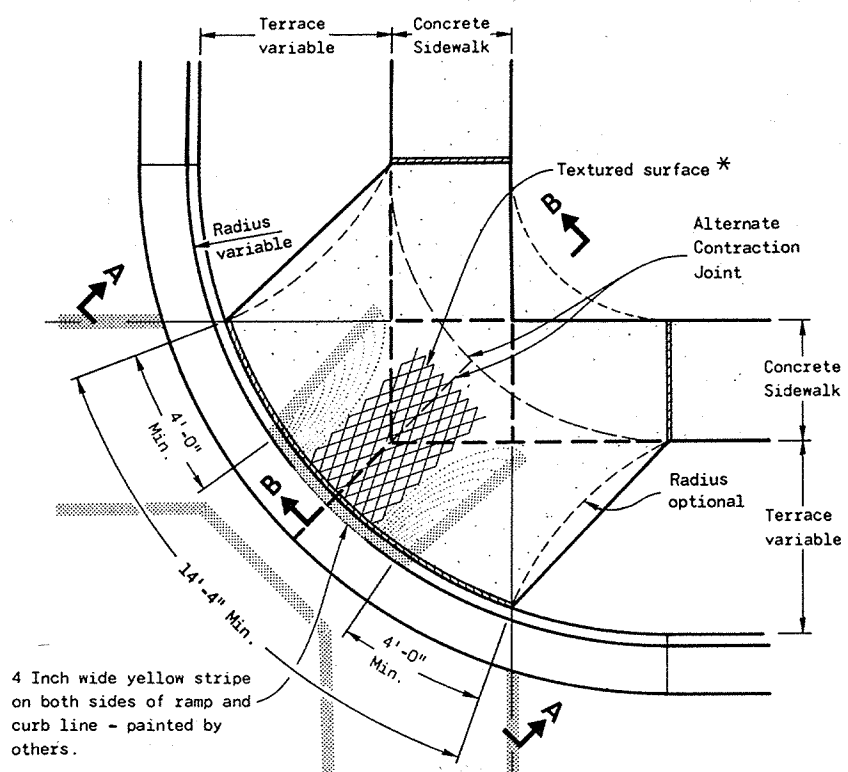
State of Wisconsin
Department of Transportation

APPROVED
4-23-80
DATE

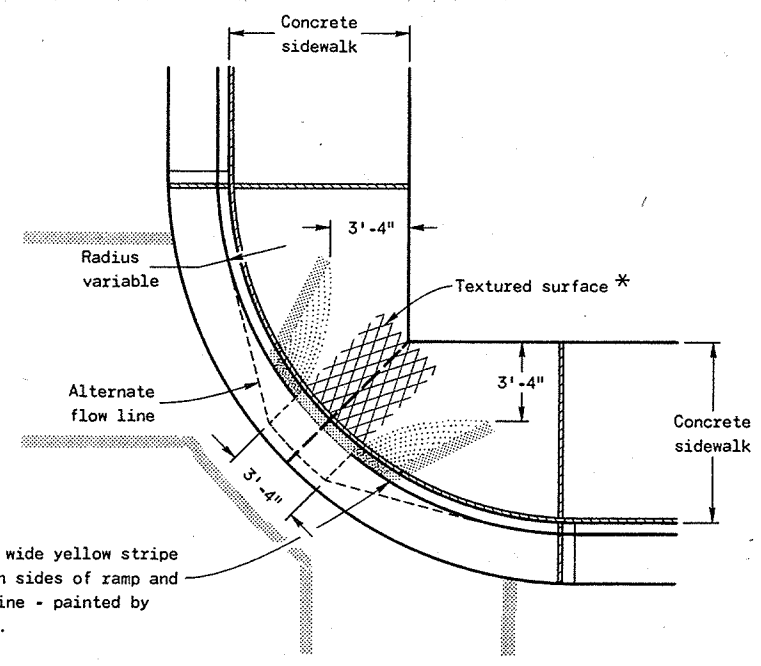
CHIEF DESIGN ENGINEER

FHWA

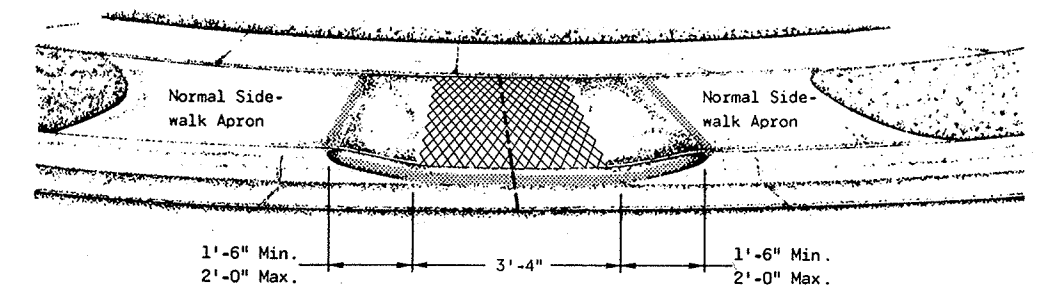
S.D.D. 8 D 1-5



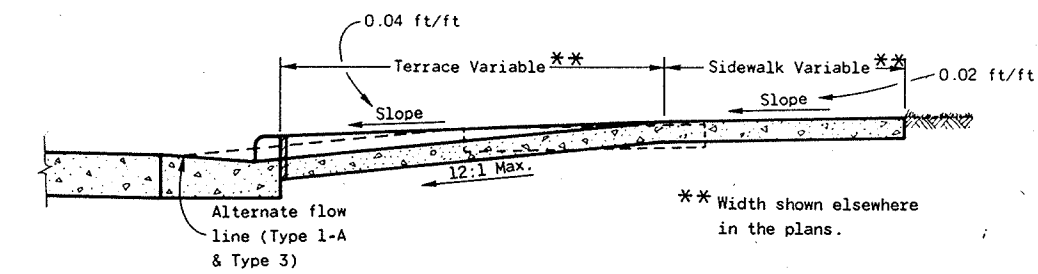
PLAN VIEW
TYPE 1 RAMP
(CENTER OF CORNER RADIUS)



PLAN VIEW
TYPE 1-A RAMP
(NO TERRACE)



VIEW A-A



SECTION B-B

GENERAL NOTES

Details of construction, materials and workmanship not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications and the applicable Special Provisions.

Ramps shall be built at 12:1 or flatter. When necessary, the sidewalk elevation may be lowered to meet the high point on the ramp.

Type 1 or Type 1-A Ramps shall have a normal sidewalk apron and curb on both sides of ramp.

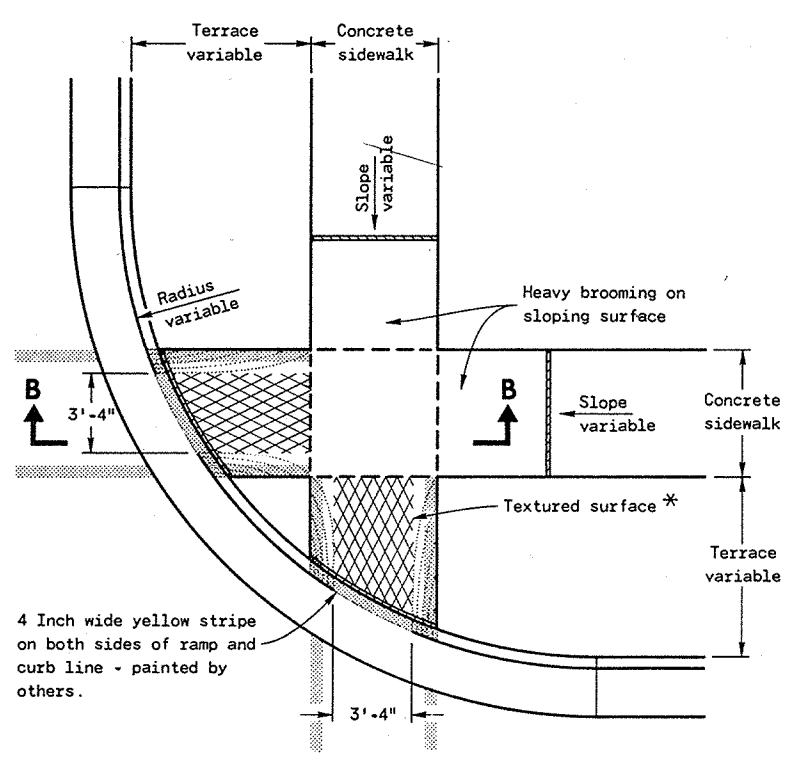
Curb ramps shall be measured and paid for as Concrete Sidewalk and Concrete Curb and Gutter.

* Surface texturing shall consist of linear impressions approximately $\frac{1}{4}$ inch to $\frac{3}{8}$ inch in depth and width, oriented to provide a uniform pattern of diamond shapes measuring approximately $1\frac{1}{4}$ inches in width by $2\frac{1}{4}$ inches in length, with the length being parallel to the direction of pedestrian movement. This surface texture may be achieved by impressing and removing a piece of expanded metal regular industrial mesh into the surface of the ramp while the concrete is in a plastic state.

Section 66.616, Wisconsin Statutes prescribes the standards for curb ramping. This drawing reflects requirements of this law.

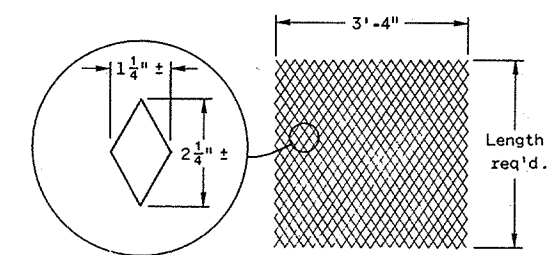
The law requires that the ramp be bordered on both sides and on the curb line with a 4 inch wide yellow stripe or with brick of a contrasting color. Normally the paint stripe alternate will be used. The municipality or the department will apply this striping.

If a municipality requires the brick alternate, special details and provisions are shown elsewhere in the plans.

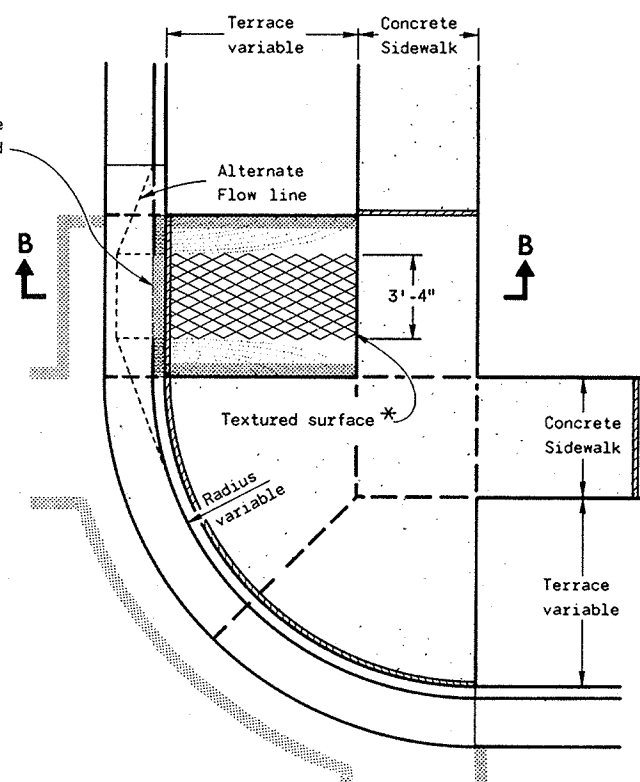


PLAN VIEW
TYPE 2 RAMP
(ON LINE WITH SIDEWALK)

4 Inch wide yellow stripe on both sides of ramp and curb line - painted by others.

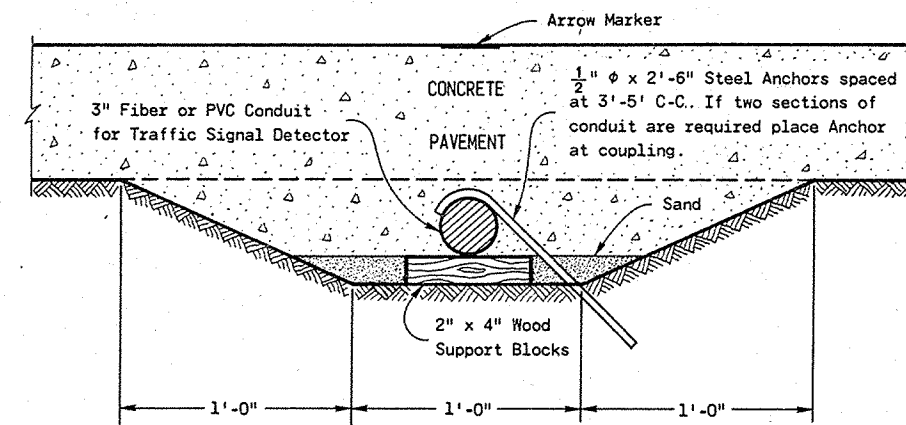


DETAIL OF DIAMOND PATTERN *

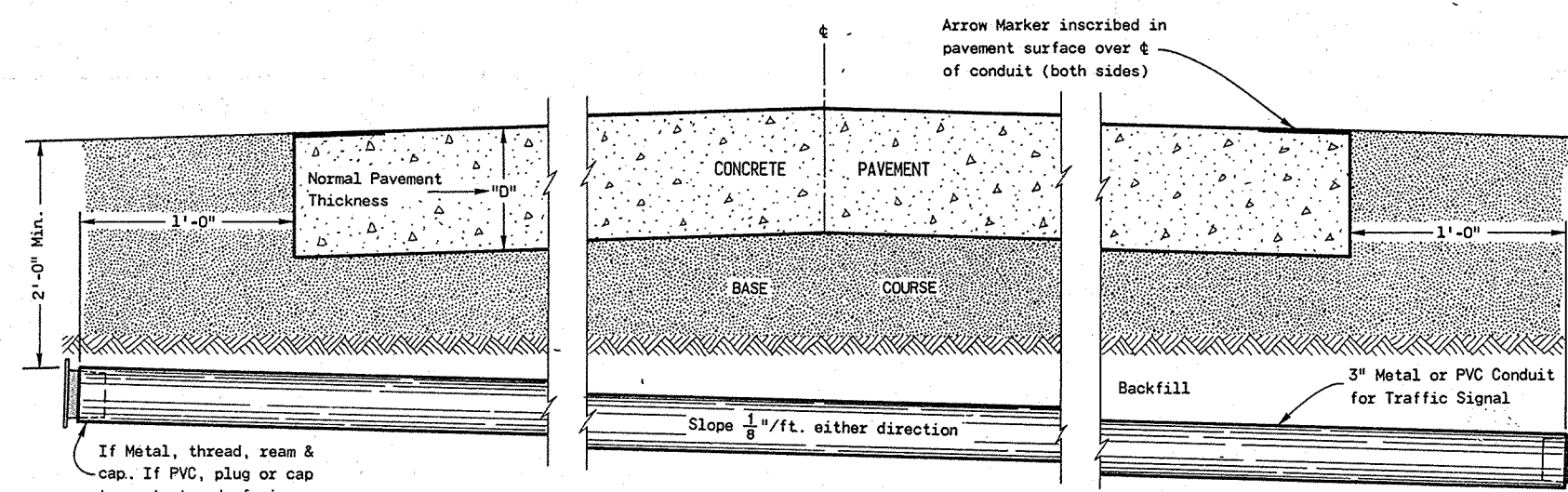


PLAN VIEW
TYPE 3 RAMP
(OUTSIDE OF CROSSWALK AREA)

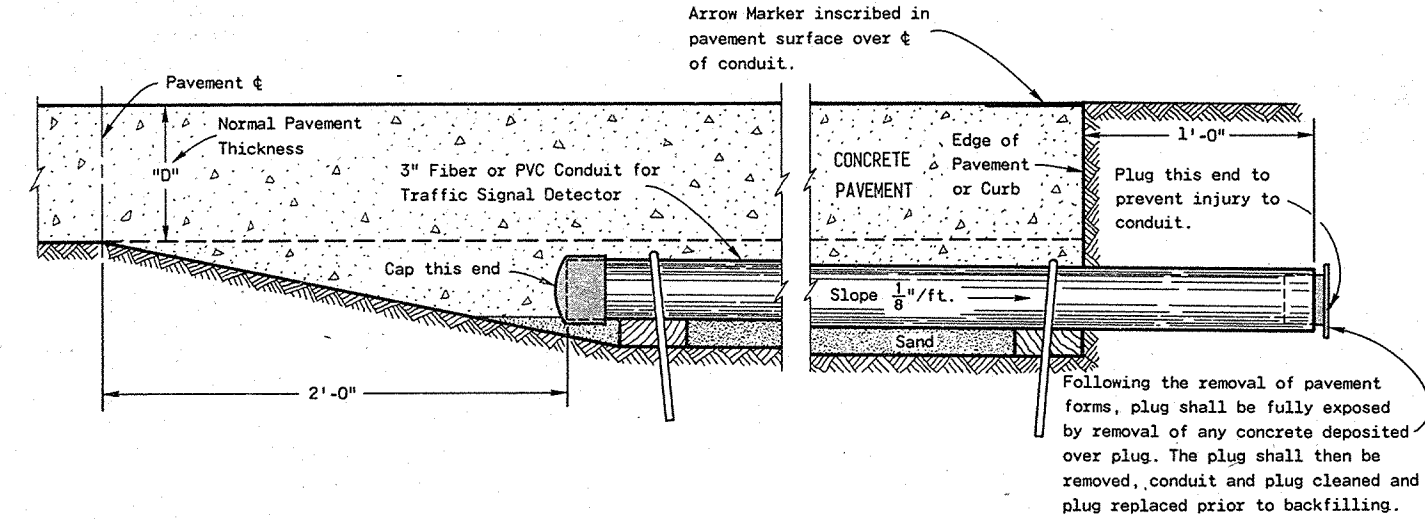
CURB RAMPS	
State of Wisconsin Department of Transportation	
APPROVED 6-26-80 DATE	<i>D. J. Strand</i> CHIEF DESIGN ENGINEER
FHWA	



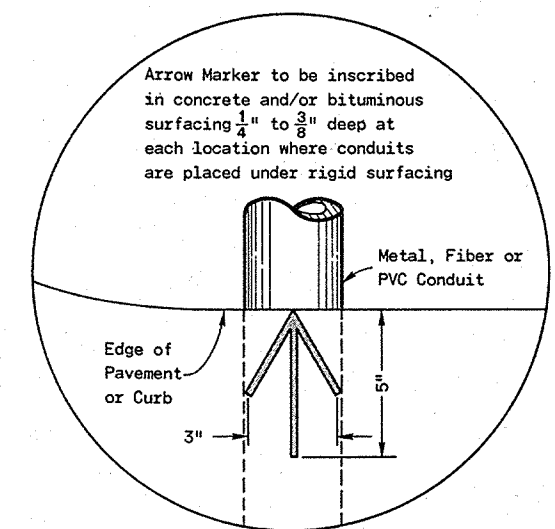
END ELEVATION
TRAFFIC SIGNAL DETECTOR CONDUIT



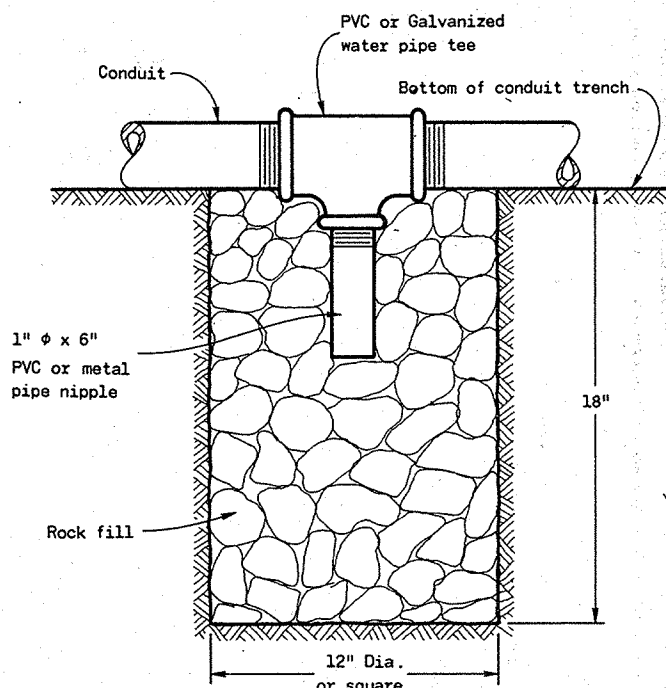
SIDE ELEVATION
DETAIL FOR TRAFFIC SIGNAL CONDUIT FOR DIVIDED OR UNDIVIDED HIGHWAYS



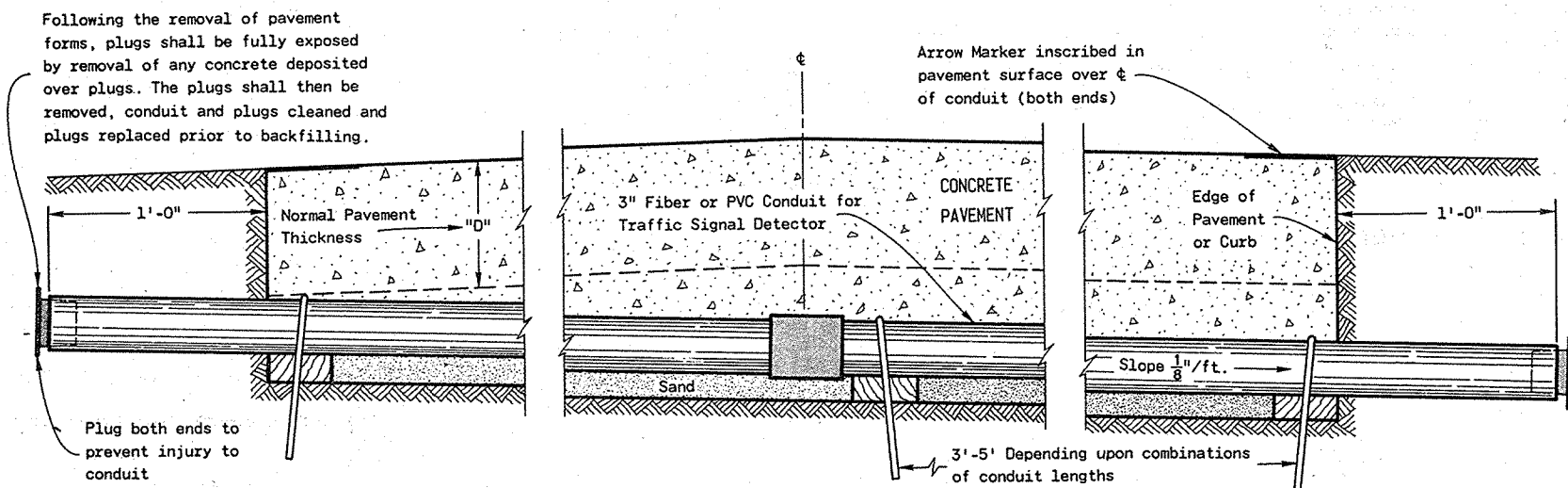
SIDE ELEVATION
DETAIL FOR TRAFFIC SIGNAL DETECTOR CONDUIT FOR UNDIVIDED HIGHWAYS



PLAN VIEW
ARROW MARKER



NOTE: Install at locations where conduits cannot be pitched to drain
DRAIN SUMP FOR CONDUIT



SIDE ELEVATION
DETAIL FOR TRAFFIC SIGNAL DETECTOR CONDUIT FOR DIVIDED HIGHWAYS

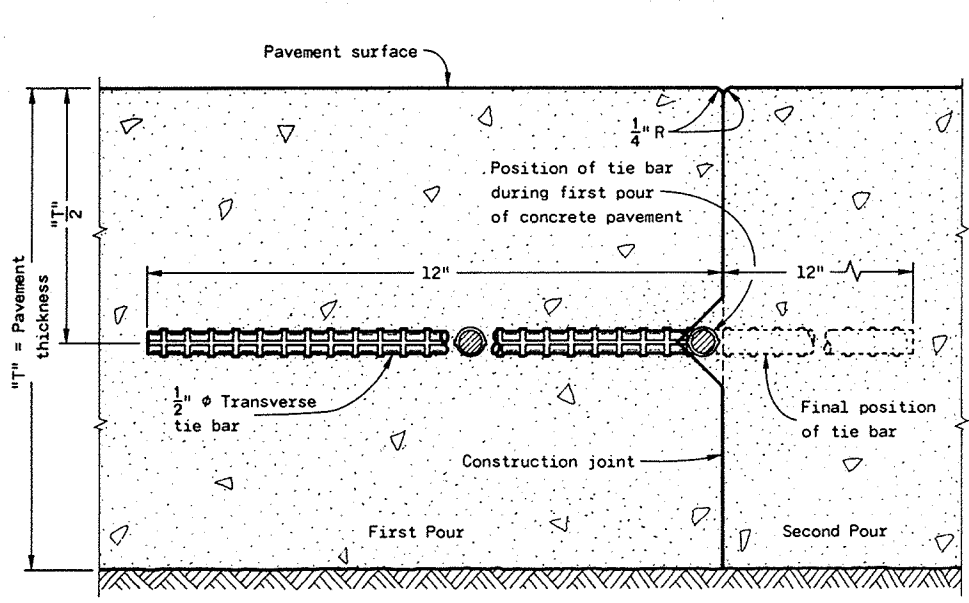
GENERAL NOTES

Details of Construction not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications and Special Provisions.
Metal, Fiber or PVC Conduit shall be furnished and placed as shown hereon and in accord with the Standard Specifications.
For station location of conduit see Construction Plans.

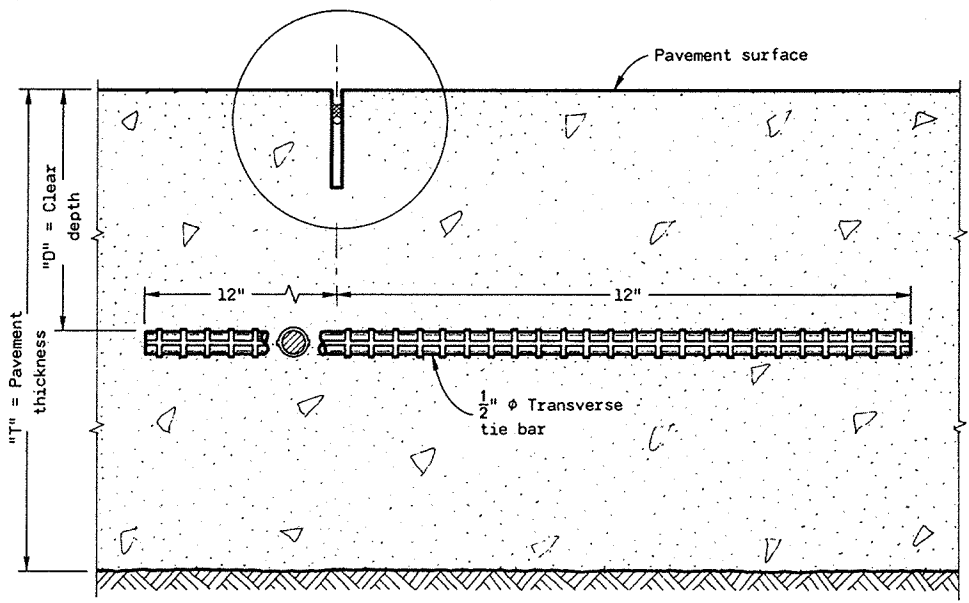
METAL, FIBER & PVC CONDUIT

State of Wisconsin
Department of Transportation
Division of Transportation Facilities

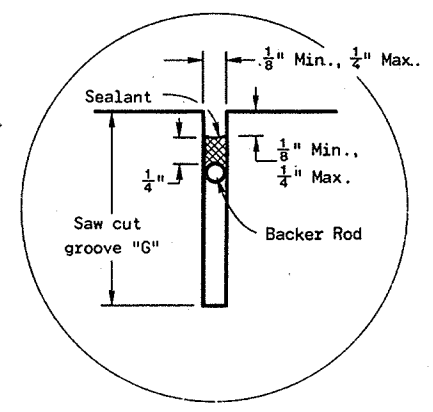
APPROVED
10-17-79
DATE
CHIEF DESIGN ENGINEER



CONSTRUCTION JOINT



SAWED JOINT



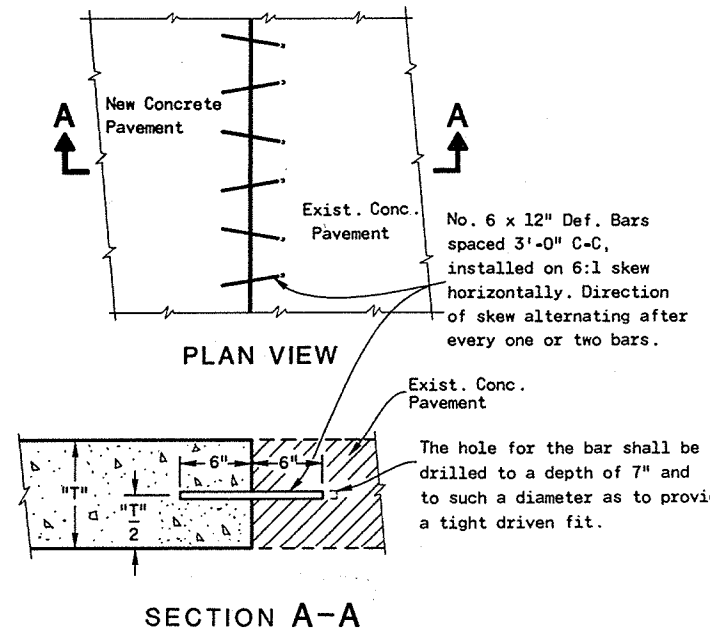
GENERAL NOTES

Details of construction not shown on this drawing shall conform to the pertinent requirements of the Standard Specifications and the applicable Special Provisions

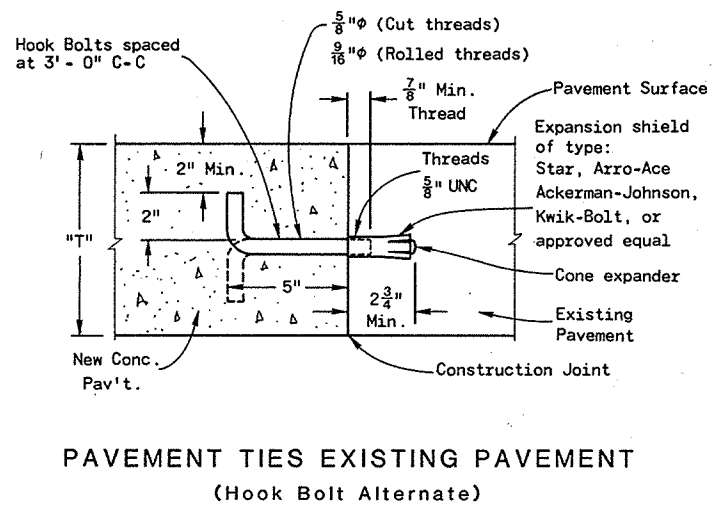
Sawed type longitudinal joints shall be sealed as specified in the plans or special provisions.

Construction type longitudinal joints shall not be sealed.

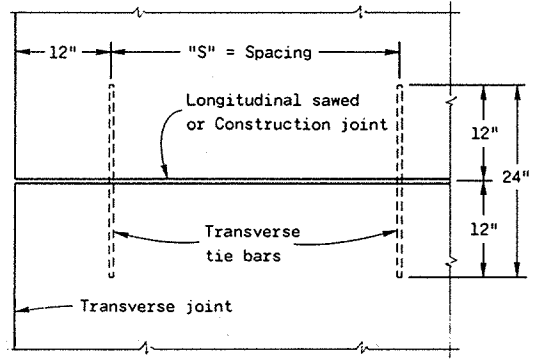
Pavement Thickness "T"	Clear Depth "D"	Saw Cut Groove "G"	Maximum Tie Bar Spacing "S"
6"	2 1/2" - 3 3/4"	1 1/2"	48"
7"	2 1/2" - 4 1/4"	1 1/2"	42"
8"	2 3/4" - 4 3/4"	1 1/2"	36"
9"	3 1/4" - 5 1/4"	1 1/2"	36"
10"	3 3/4" - 5 3/4"	2"	30"
11"	4 1/2" - 6 1/4"	2 1/2"	24"
12"	4 3/4" - 6 3/4"	3"	24"



PAVEMENT TIES EXISTING PAVEMENT
(Driven Tie Bar Alternate)



PAVEMENT TIES EXISTING PAVEMENT
(Hook Bolt Alternate)



PLAN VIEW
Showing location of Tie Bars.

CONSTRUCTION JOINT
(PAVEMENT WIDENING)

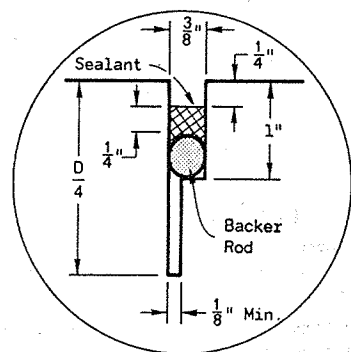
**CONCRETE PAVEMENT
LONGITUDINAL JOINTS**

State of Wisconsin
Department of Transportation

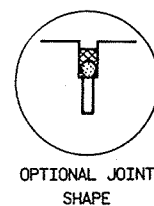
APPROVED
9/2/80
DATE

[Signature]
CHIEF DESIGN ENGINEER

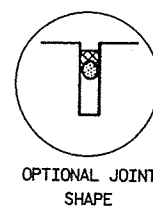
FHWA



JOINT DETAIL

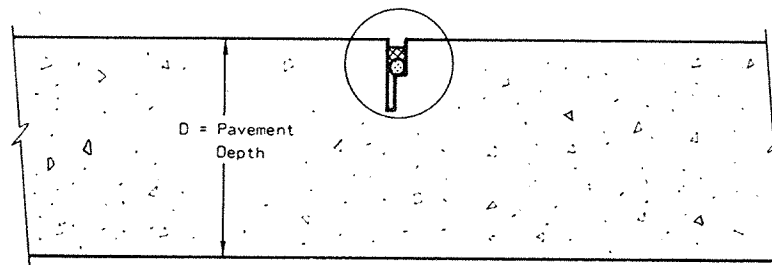


OPTIONAL JOINT SHAPE

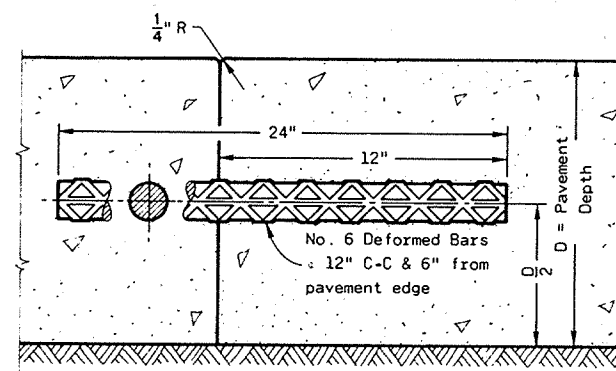


OPTIONAL JOINT * SHAPE

* The joint may be sawed full width $\frac{3}{8}$ " x D/4 provided the backer rod can be installed to adequately support the sealant at the position shown in the joint detail.



CONTRACTION JOINT



CONSTRUCTION JOINT

GENERAL NOTES

Details of construction not shown on this drawing shall conform to Standard Specifications and Special Provisions

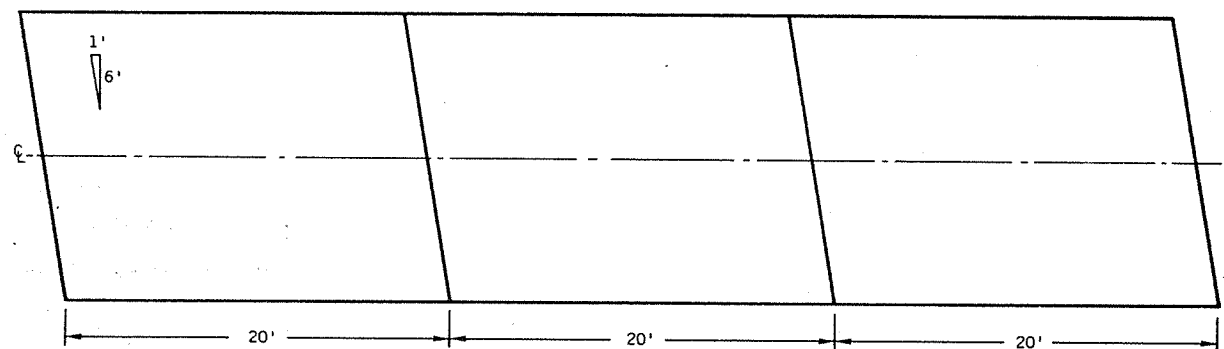
CONTRACTION JOINTS

Contraction Joints shall be located at a uniform spacing of 20' (±1') and be skewed RHF. Exceptions such as contraction joints through intersections, shall be as directed by the engineer.

Contraction Joints shall be sealed with a one-component, cold poured, silicone rubber sealant conforming to Federal Specifications TT-S-1543, Class A and TT-S-230, Class A

CONSTRUCTION JOINTS

Construction joints shall be located a minimum of 4 feet from the nearest contraction joint and may be constructed either parallel to contraction joints or at 90° to the centerline.



CONTRACTION JOINT LOCATIONS

NON-REINFORCED CONCRETE PAVEMENT
(20' Skewed Transverse Joints
With Poured Type Sealer)

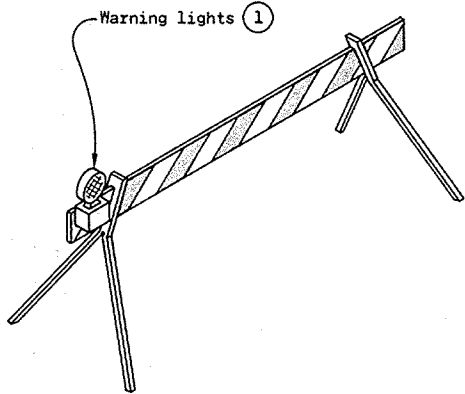
State of Wisconsin
Department of Transportation
Division of Transportation Facilities

APPROVED
12-17-80
DATE
PHWA

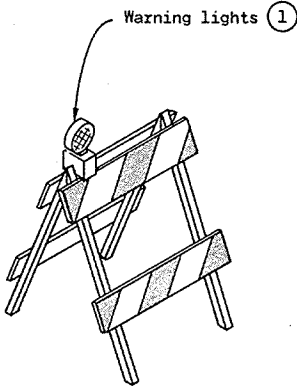
[Signature]
CHIEF DESIGN ENGINEER

TABLE OF BARRICADE CHARACTERISTICS			
BARRICADE TYPE	I	II	III
Height	3' Minimum		5' Minimum
*Rail Width	8" Minimum to 12" Maximum		
Rail Length	2' Minimum		4' Minimum
**Stripe Width	6" at 45° Angle		
Stripe Colors	Reflectorized Orange & White		

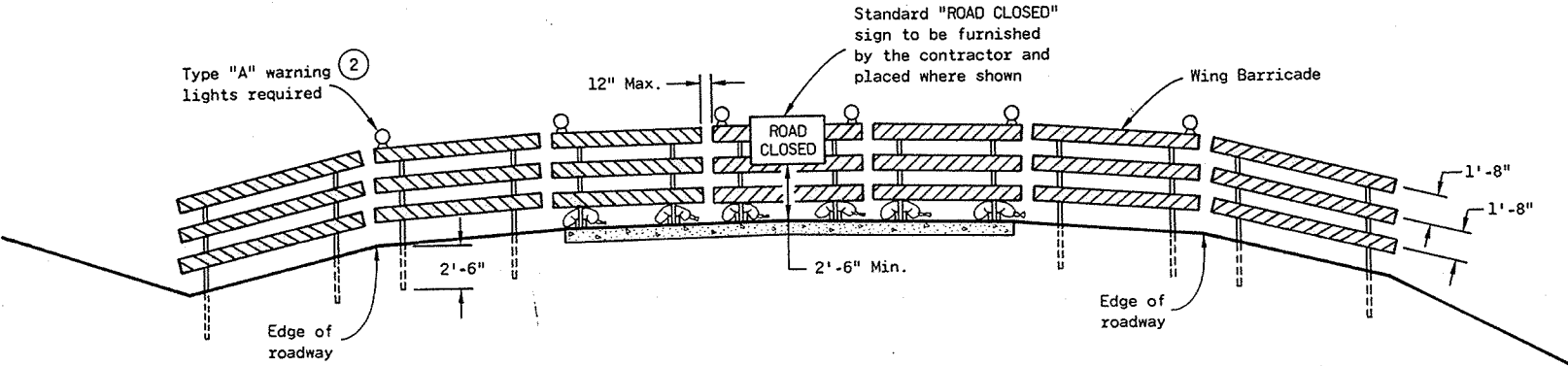
* Nominal dimensions when barricade is constructed of lumber.
 ** Shall be 4" for rail lengths less than 3'.



TYPICAL TYPE I BARRICADE



TYPICAL TYPE II BARRICADE



TYPICAL INSTALLATION SHOWING TYPE III BARRICADE
 CONSTRUCTION BARRICADES



R11-2
 48" x 30"
 Black Lettering on Reflective
 White Background
 Letter Series "D"
 Letter height 8"



W20-3
 48" x 48"
 Black Lettering on Reflective
 Orange Background
 Letter Series "D"
 Letter height 7"

STANDARD SIGNS - TYPE II

GENERAL NOTES

The contractor shall furnish, erect and maintain barricades and signs. Details regarding location, spacing, dimensions, fabrication, material, sign lettering, lighting devices and color of barricades and signs shall conform to this drawing, the Manual On Uniform Traffic Control Devices, the Standard Specifications, Special Provisions and/or plans.

Type III Barricades and Signs shall be erected at the termini of projects and at other road or street locations where it is necessary to control or eliminate public access to the construction area.

Type I and II Barricades shall be used on projects when traffic is to be maintained through the construction area..

The actual field location of barricade installations and advance signs shall be as directed by the Engineer.

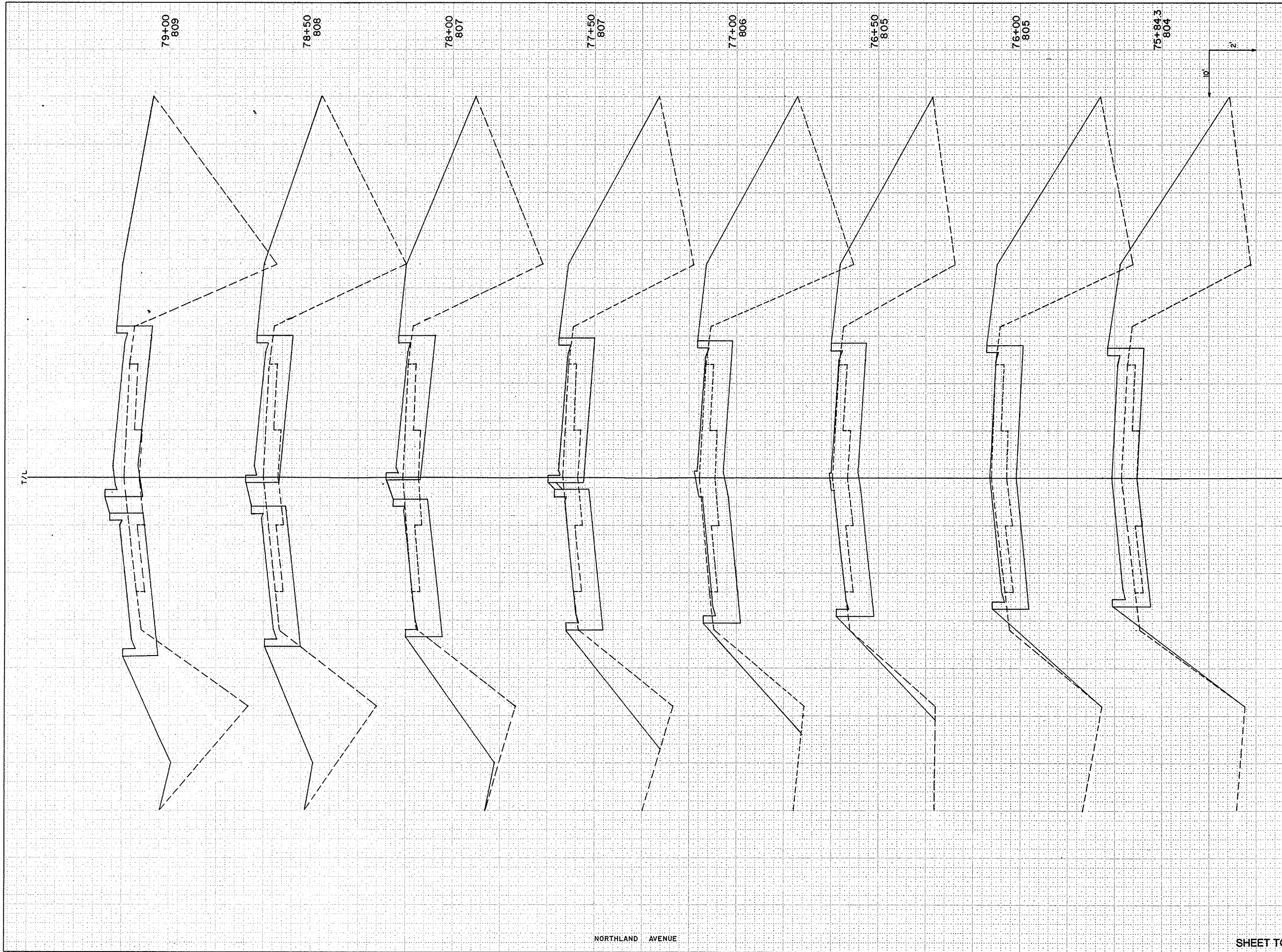
Each barricade shall have the name and telephone number of a person responsible for 24 hour emergency service printed in letters at least 3/4 inch in height on the barricade rails. Prior to May 1, 1983, such information may be shown on either front or back faces of the barricade rails. After May 1, 1983, all printed information or identification markings shall be shown only on the back side of barricade rails.

Type I Barricades may include other unstriped horizontal panels necessary to provide stability.

On high speed expressways or in other situations where barricades may be susceptible to overturning in the wind, sandbags should be used for ballasting. Sandbags may be placed on lower parts of the frame or stays to provide the required ballast but shall not be placed on top of any striped rail.

- 1 Unless otherwise provided elsewhere in the contract, warning lights are required on all barricades which will be located near traffic operations during periods of inclement weather or hours of darkness. Barricades used to shield isolated hazards shall be equipped with Type "A" (low intensity - flashing) lights unless Type "B" (high intensity) - flashing) lights are specified elsewhere in the contract documents. Barricades used for channelization or delineation of the travel path shall be equipped with Type "C" (steady burn) lights except for the initial barricade(s) in sequence, which shall be equipped with Type "A" or "B" lights as previously noted.
- 2 Two warning lights shall be provided on the center barricade and at least one warning light shall be provided on each of the other barricades within the roadway limits. Spacing of the warning lights shall be uniform to the edge of roadway as shown.

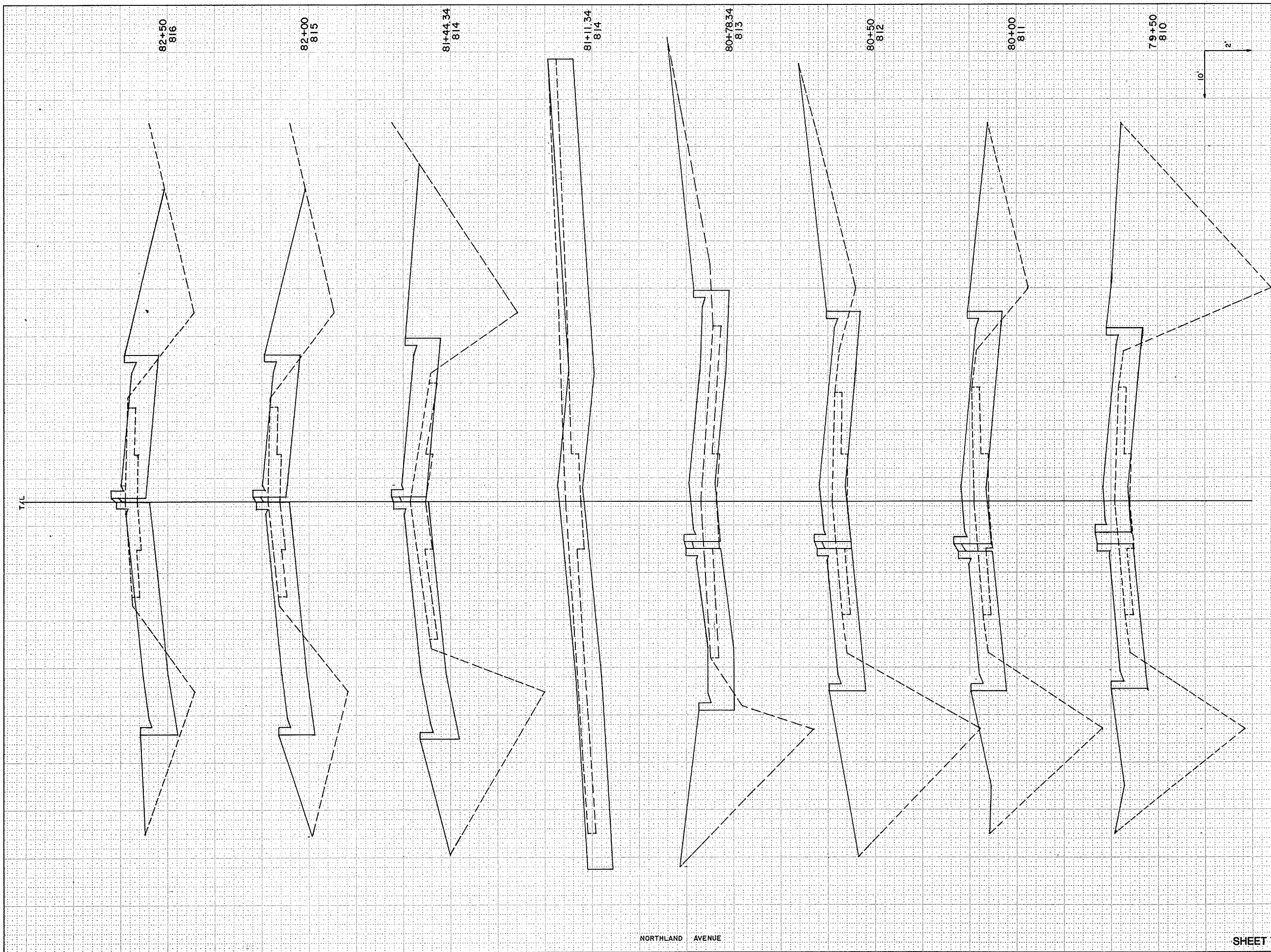
CONSTRUCTION BARRICADES & STANDARD SIGNS	
State of Wisconsin Department of Transportation	
APPROVED 9-14-81 DATE	<i>[Signature]</i> CHIEF DESIGN ENGINEER
FHWA	

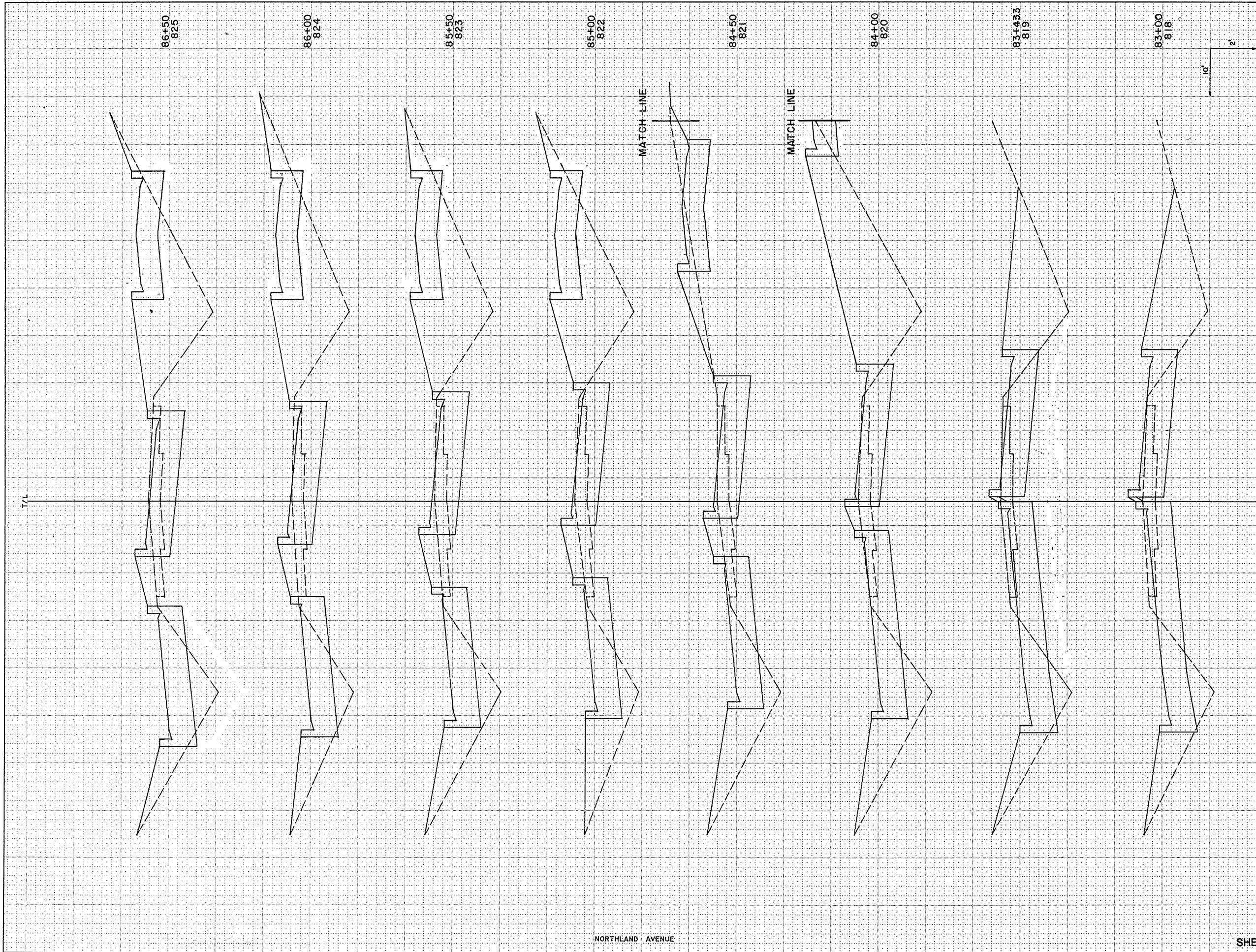


NORTHLAND AVENUE

SHEET TOTAL

STATE PROJECT NUMBER											SHEET NUMBER									
4984 - 0 - 42											9									
STATION	DISTANCE										YARDAGE									
											EXCAVATION				FILL					
											UNC.									
79+00	50'																			
78+50	50'																			
78+00	50'																			
77+50	50'																			
77+00	50'																			
76+50	50'																			
76+00	50'																			
75+74.3	57'																			
TOTAL																				

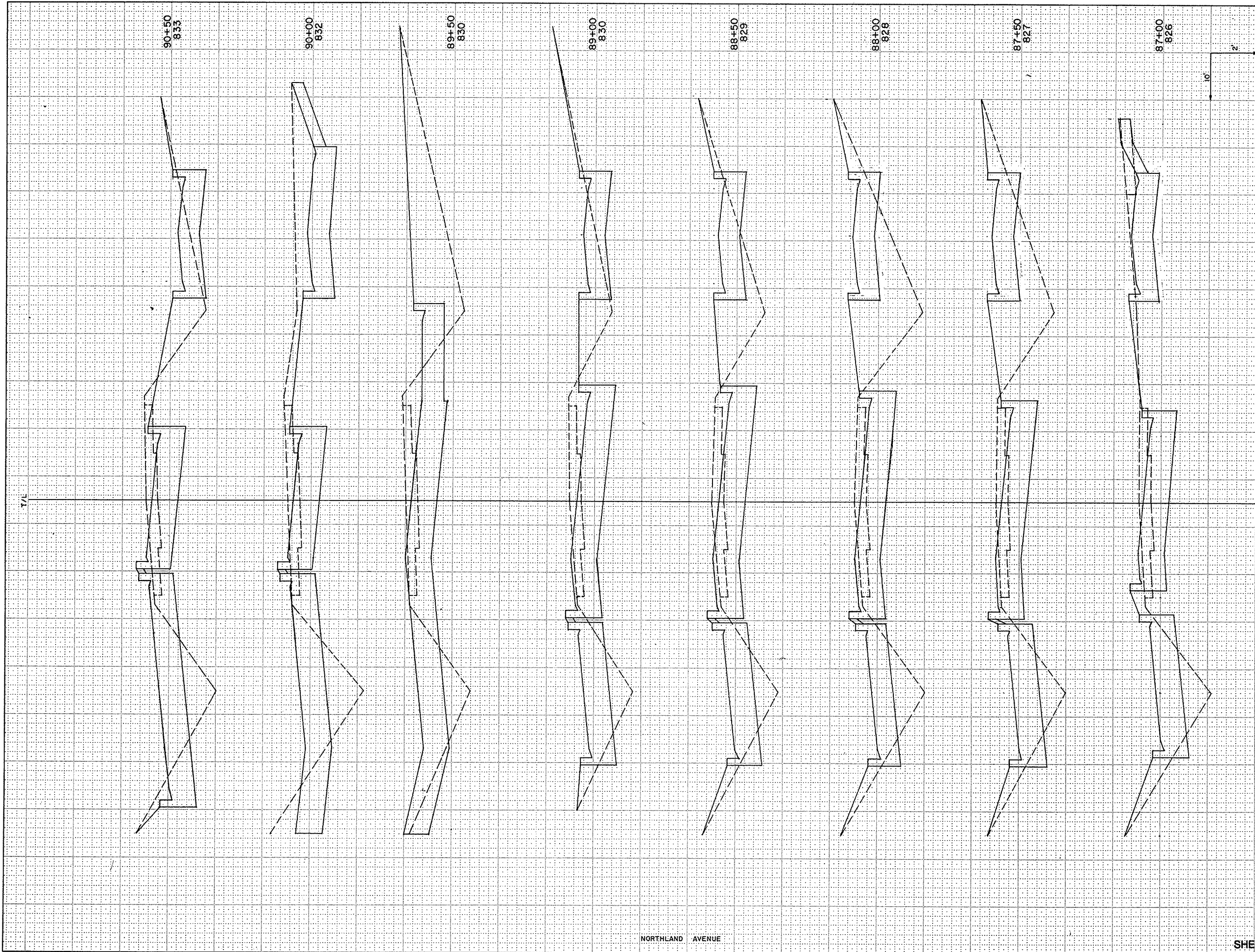
[illegible]



STATE PROJECT NUMBER											SHEET NUMBER									
4984-0-42											92									
STATION	DISTANCE										FILL									
	YARDAGE																			
	EXCAVATION																			
											UNC.									
86+50	86+00	85+50	85+00	84+50	84+00	83+433	83+00	82+50												
	50'	50'	50'	50'	56.7'	433'	50'													
	88	89	91	122	130	135	104	110												
869																				
824																				

SHEET TOTAL

NORTHLAND AVENUE



NORTHLAND AVENUE

SHEET TOTAL

STATE PROJECT NUMBER											SHEET NUMBER
4984-0-42											93
STATION	YARDAGE										
	DISTANCE	EXCAVATION								FILL	
		UNC.									
90+50	50'										
90+00	50'	202	212	166	158	136	123	137	121		
89+50	50'										
89+00	50'										
88+50	50'										
88+00	50'										
87+50	50'										
87+00	50'										
86+50	50'										
TOTAL											
1255											
309											

1/4

94+50
839

94+00
838

93+50
837

93+00
836

92+50
836

92+00
835

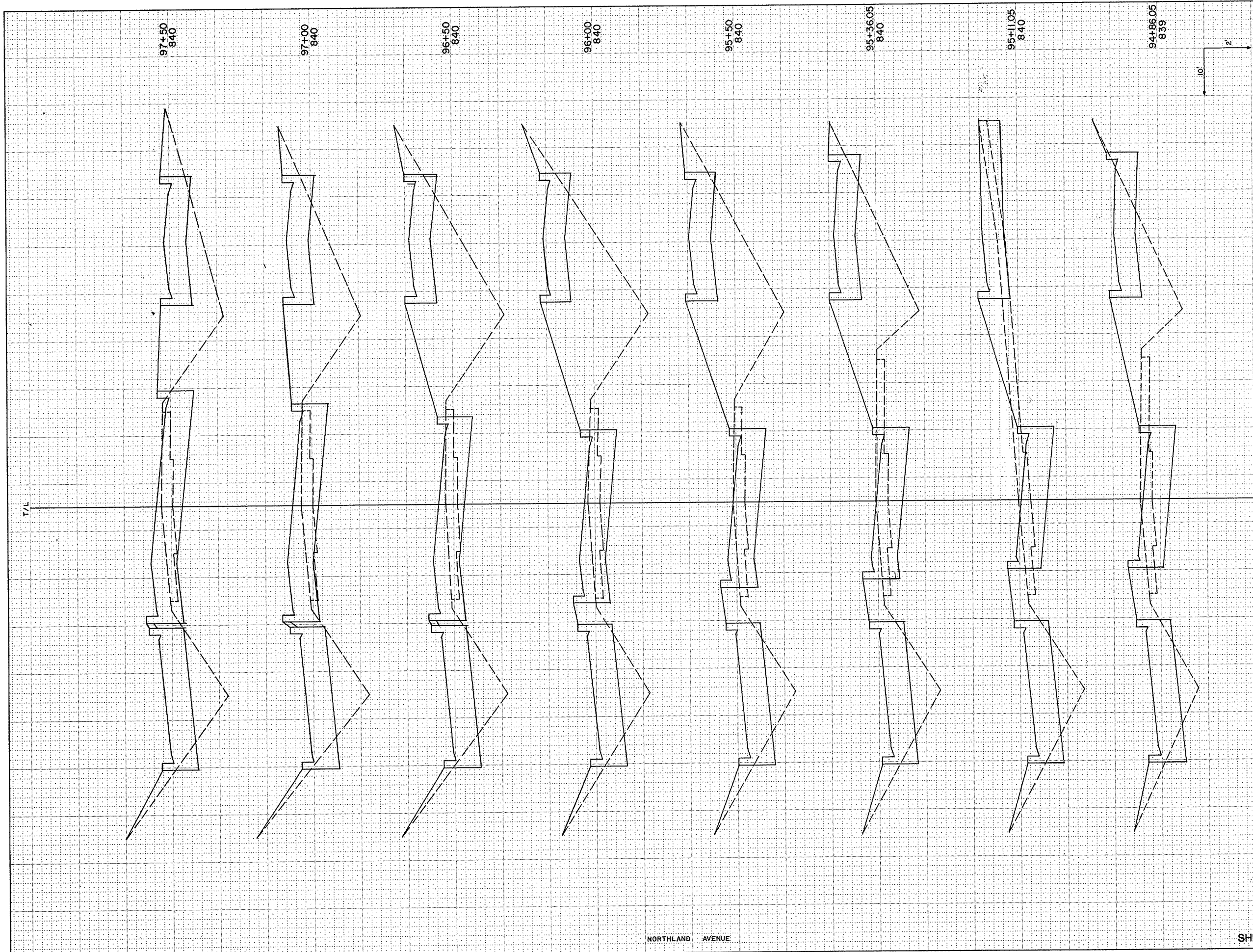
91+50
834

91+00
834

NORTHLAND AVENUE

SHEET TOTAL

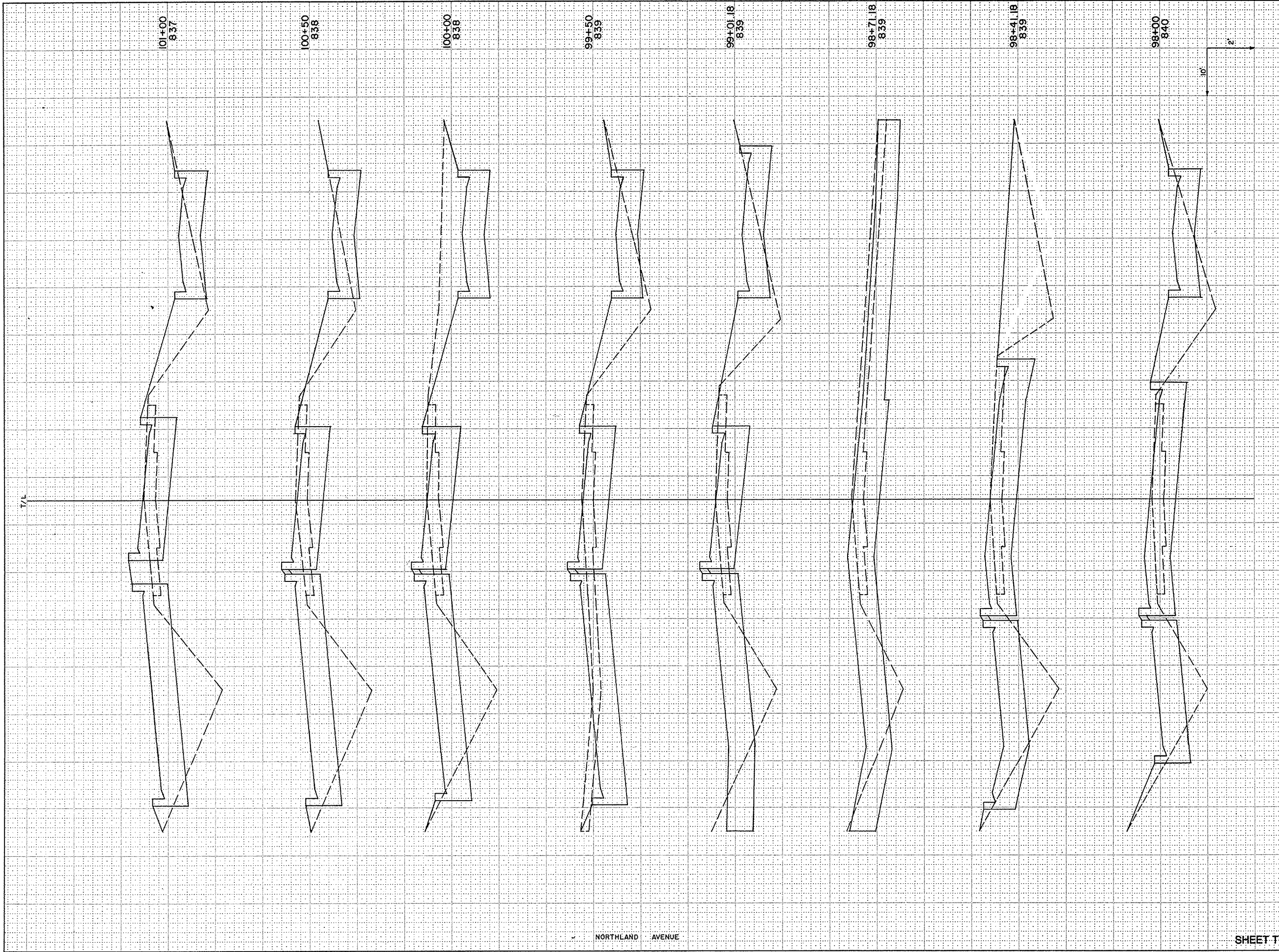
STATE PROJECT NUMBER														SHEET NUMBER																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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NORTHLAND AVENUE

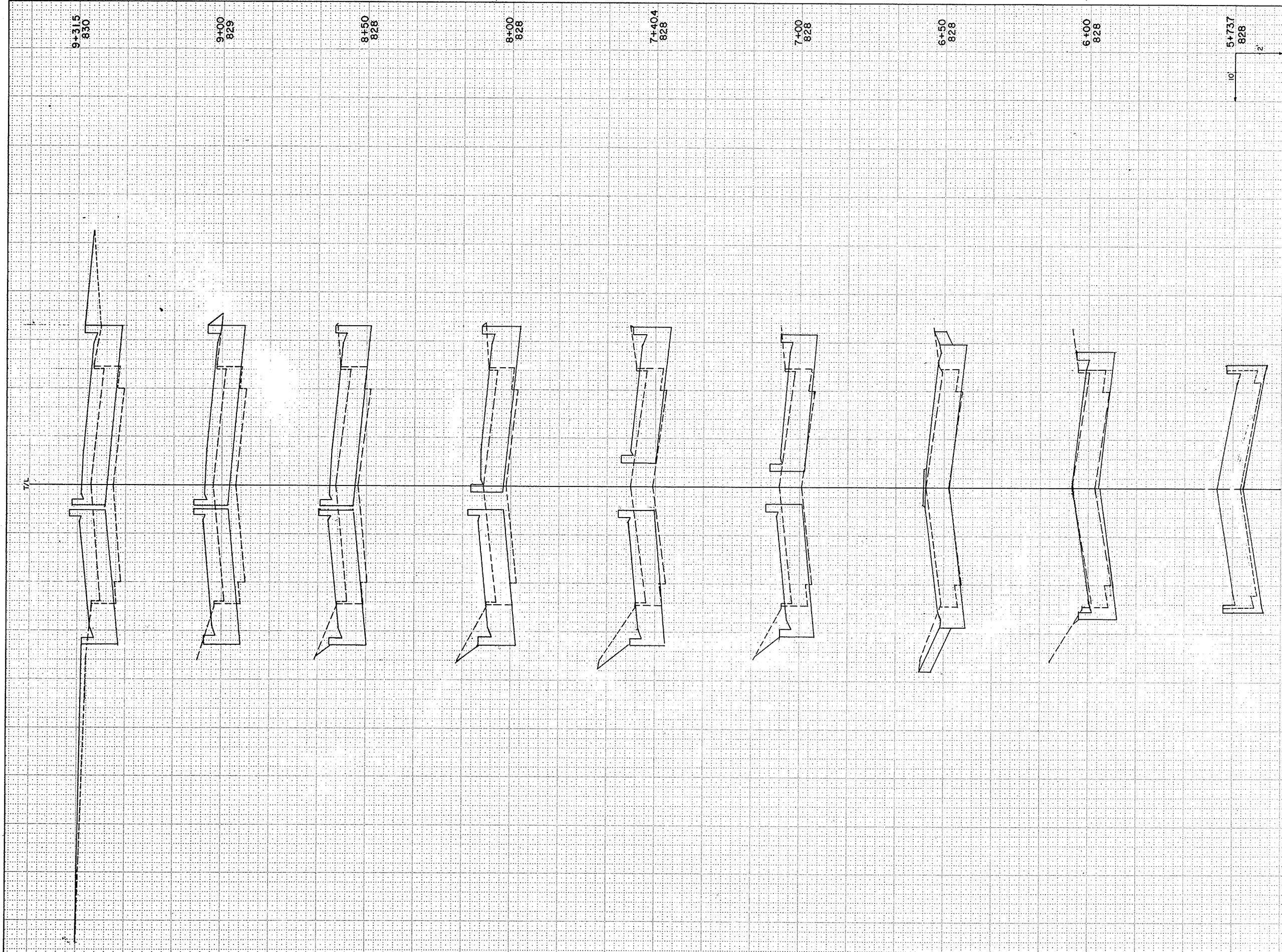
SHEET TOTAL

STATE PROJECT NUMBER										SHEET NUMBER
4984-0-42										95
STATION	DISTANCE		YARDAGE							
			EXCAVATION						FILL	
			UNC.							
97+50	50'	76							61	
97+00	50'	71							76	
96+50	50'	71							79	
96+00	50'	73							113	
95+00	13.95'	21							27	
95+36.05	25'	43							31	
95+11.05	25'	48							27	
94+86.05	36.05'	68							47	
94+50										
SHEET TOTAL										461



STATE PROJECT NUMBER											SHEET NUMBER
4984-0-42											96
STATION	YARDAGE										
	EXCAVATION										FILL
	UNC.										
	101+00	100+50	100+00	99+50	99+01.18	98+71.18	98+41.18	98+00	97+50		
		50'	50'	50'	48.82'	30'	30'	41.18'	50'		
1019		112	172	196	150	102	96	94	97		
226		26	9	14	29	10	32	59	47		

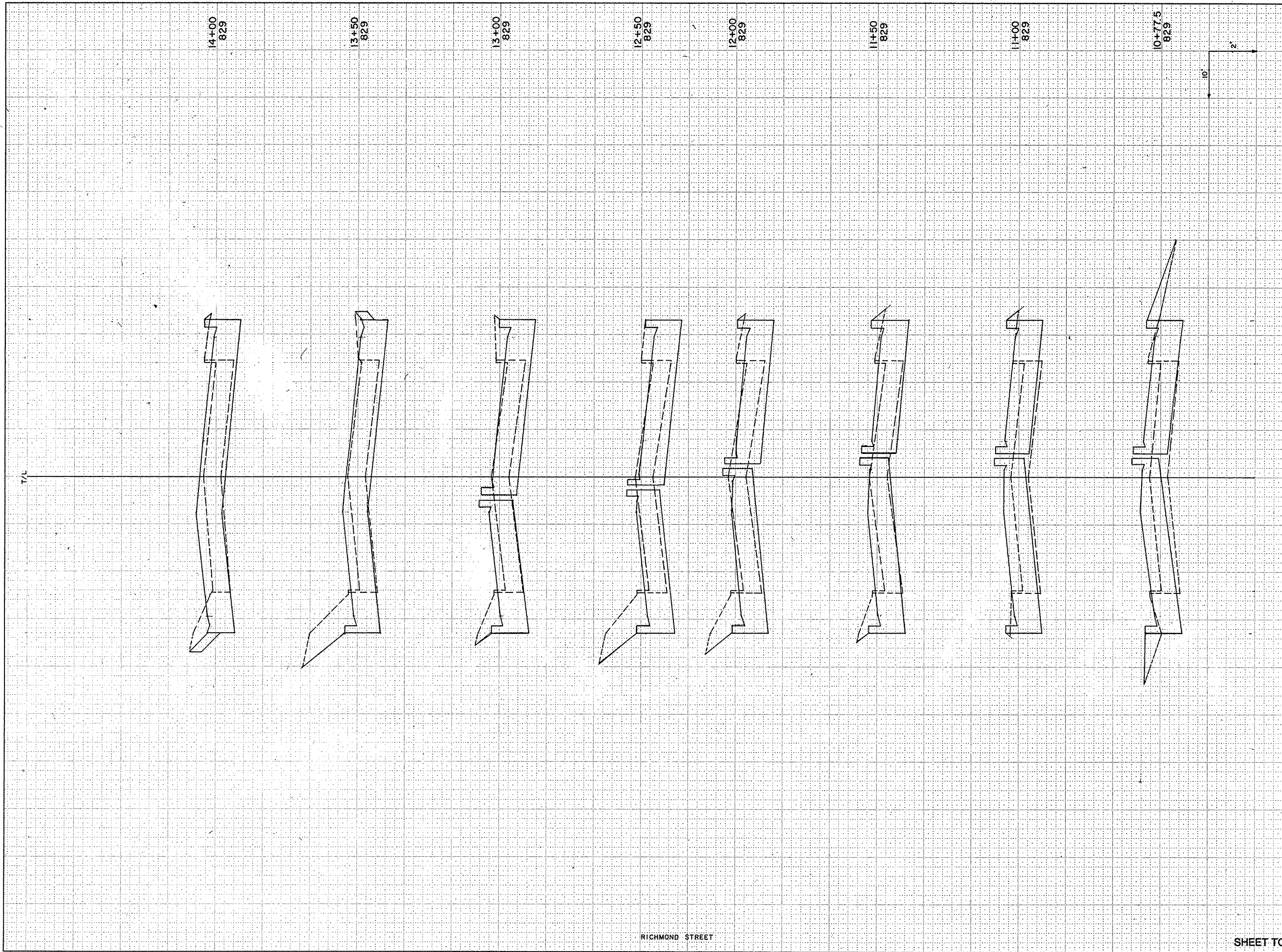
NORTHLAND AVENUE



RICHMOND STREET

SHEET TOTAL

STATE PROJECT NUMBER											SHEET NUMBER
4984-0-42											9.11
STATION	YARDAGE										
	DISTANCE	EXCAVATION								FILL	
		UNC									
9+737	263'										
6+00	50'										
6+50	50'										
7+00	50'										
7+404	404'										
8+00	596'										
8+50	50'										
9+00	50'										
9+315	315'										



STATE PROJECT NUMBER													SHEET NUMBER
4984-0-42													9.12
STATION	YARDAGE												
	EXCAVATION												FILL
	UNC												
	14+00	13+50	13+00	12+50	12+00	11+50	11+00	10+77.5					
		50'	50'	50'	50'	50'	50'	22.5'					
		132	140	149	154	133	111	46					
		</											

RICHMOND STREET