

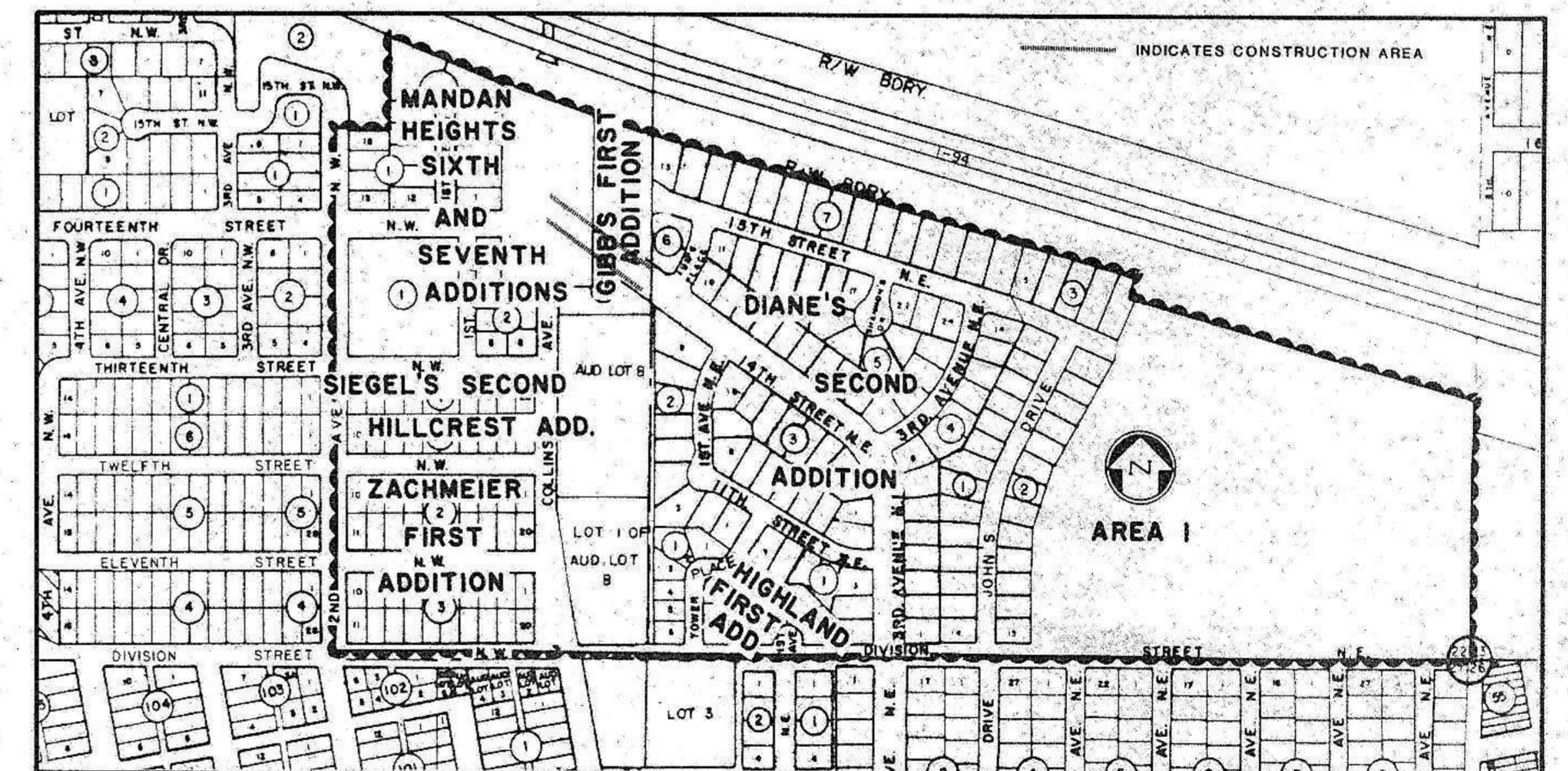
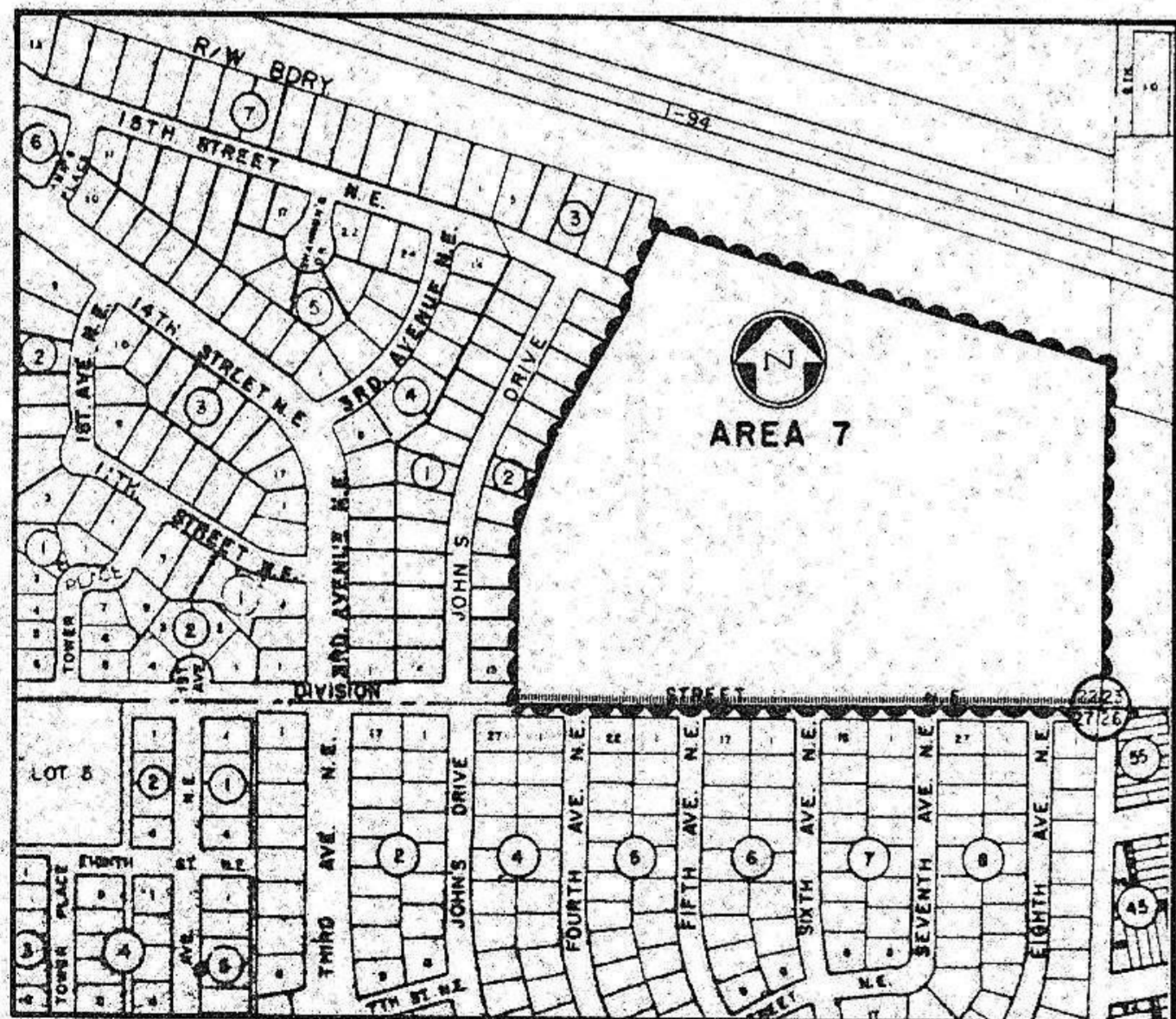
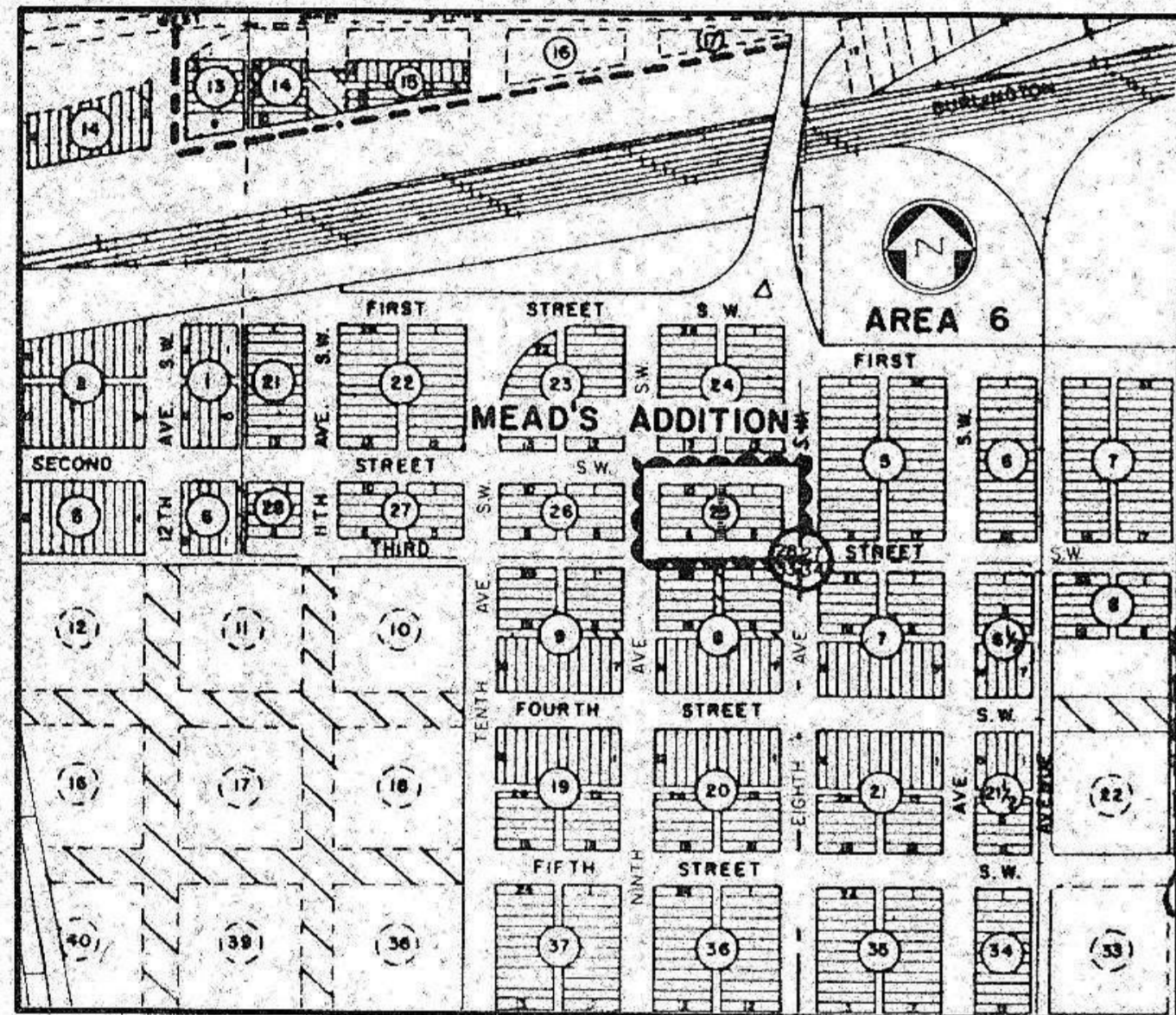
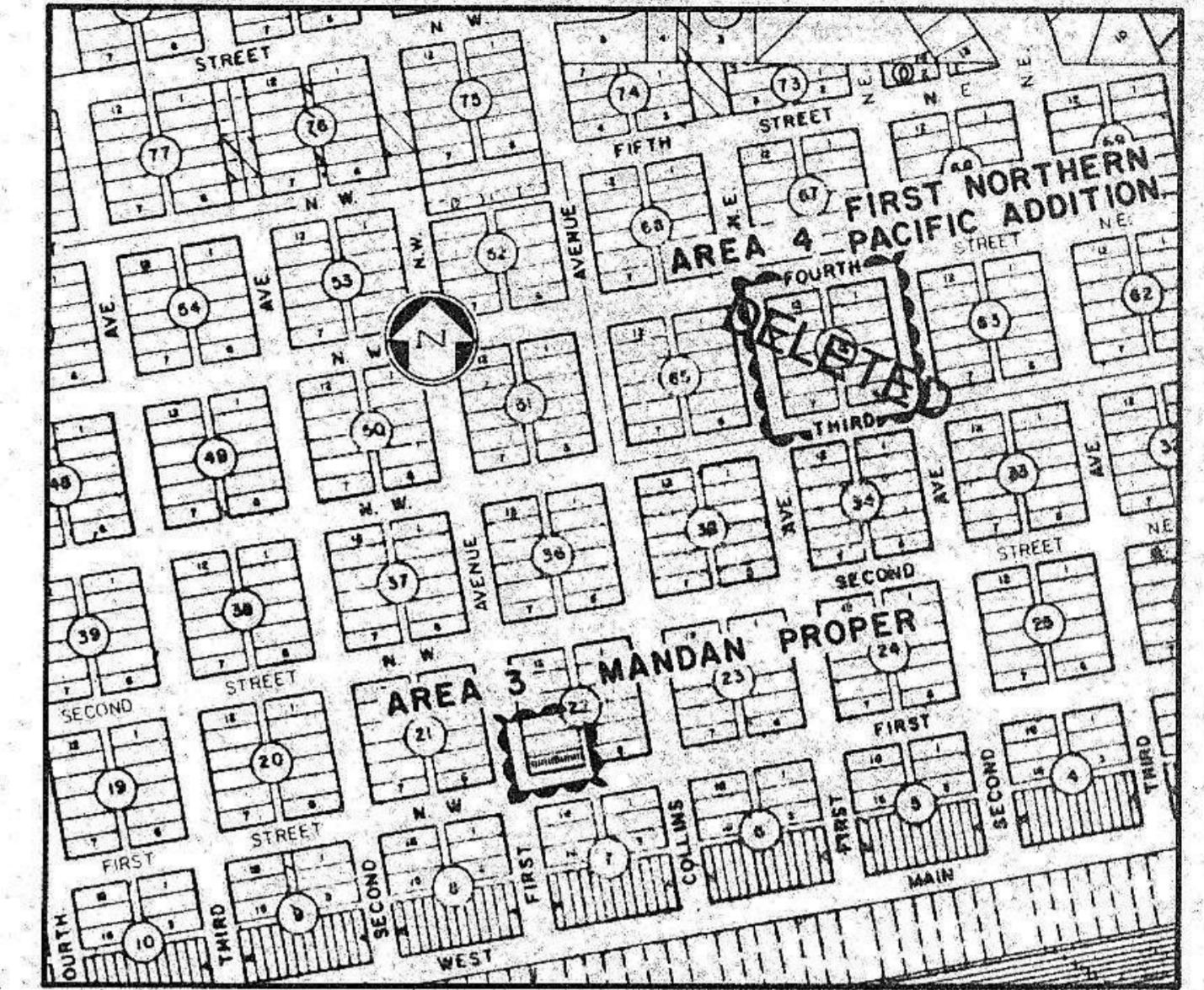
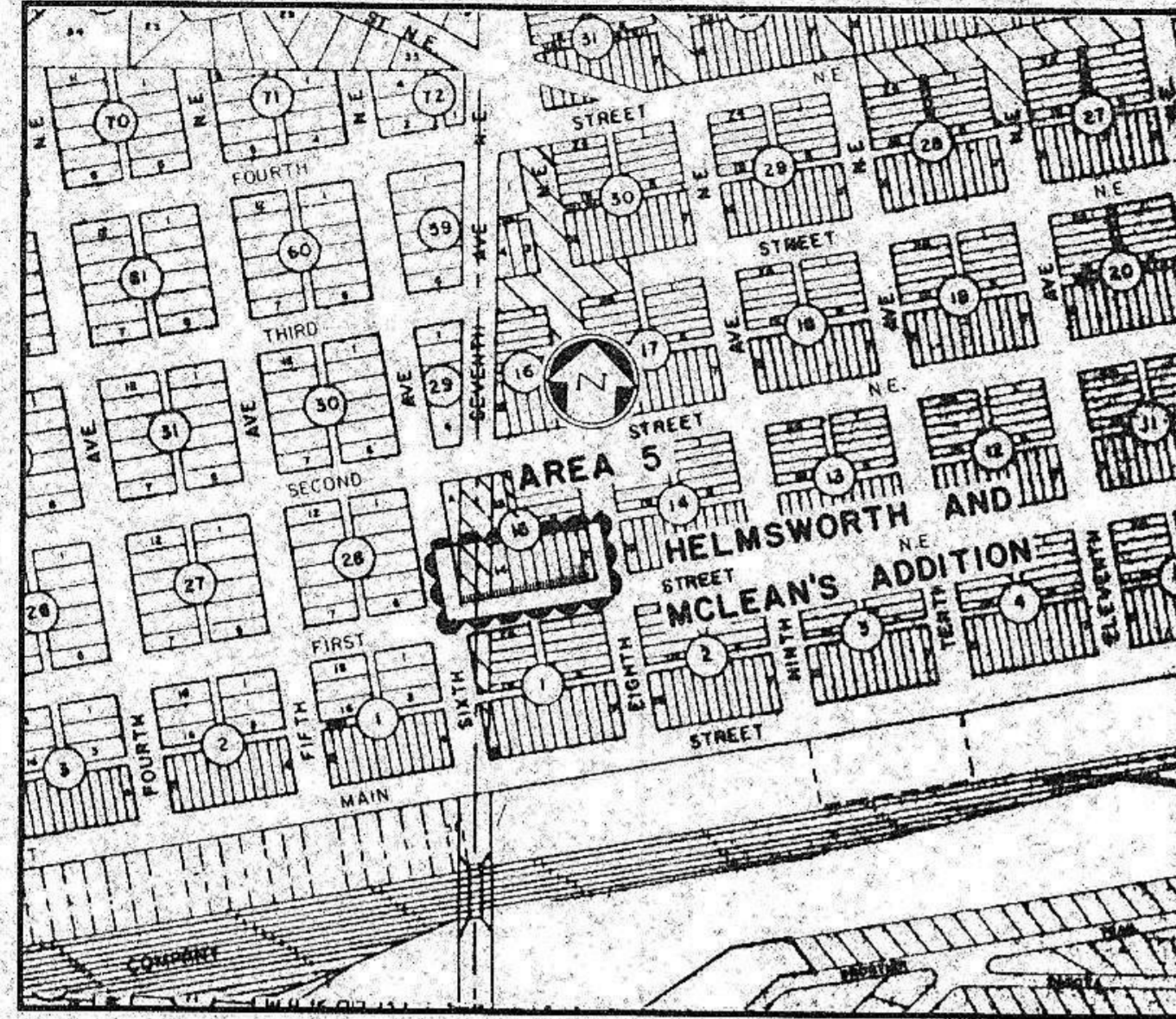
STREET IMPROVEMENT DISTRICT NO. 59 MANDAN, NORTH DAKOTA

PROJECT NO. 79-11

ASBUILT CONSTRUCTION DRAWINGS

INDEX

- SHEET NO. 1 DIVISION STREET BETWEEN JOHN'S DRIVE AND 8TH AVENUE N.E. (AREA 7)
- SHEET NO. 2 FOURTEENTH STREET N.E. BETWEEN COLLINS AVENUE AND ANN'S PLACE (AREA 1) THIRTY-SEVENTH STREET N.W. FROM OLD RED TRAIL TO EXISTING STREET APPROX. 375' WEST (AREA 2) ALLEY, BLOCK 25, MEAD'S ADDITION (AREA 6)
- SHEET NO. 3 BORROW AREA LAYOUT FOR AREA'S 1 & 7
- SHEET NO. 4 PARKING LOT, BLOCK 22, MANDAN PROPER, (MANDAN PUBLIC LIBRARY, AREA 3) PARKING RAMP, BLOCK 15, HELMSWORTH-MCLEAN ADDITION (MANDAN OUTDOOR SWIMMING POOL, AREA 6) STREET LIGHT LAYOUTS, 14TH ST. N.E. (AREA 1) & 37TH ST. N.W. (AREA 2)
- SHEET NO. 4-A MANDAN JR. HIGH SCHOOL
- SHEET NO. 4-B ROOSEVELT GRADE SCHOOL, MARY STARK GRADE SCHOOL
- SHEET NO. 5 PAVING, CURB AND GUTTER DETAILS.
- SHEET NO. 6 STREET LIGHT DETAILS



TOMAN ENGINEERING CO.
CONSULTING ENGINEERS

P 79-11
D 59



APPROVED: *Thomas Little* DATE: 3/19/80
THOMAS LITTLE, P.E.
CITY ENGINEER



MANDAN, NORTH DAKOTA
MARCH, 1980

DIVISION STREET (AREA 7)

AS-BUILT QUANTITIES

Area 7 (Division Street)

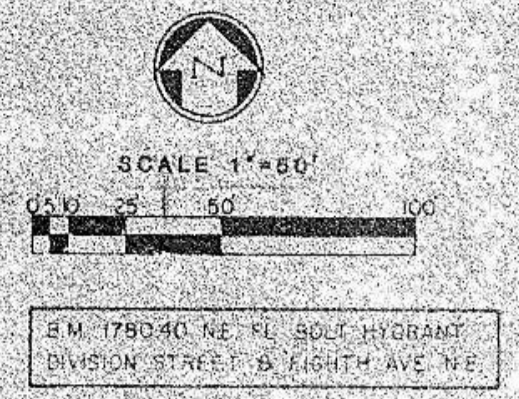
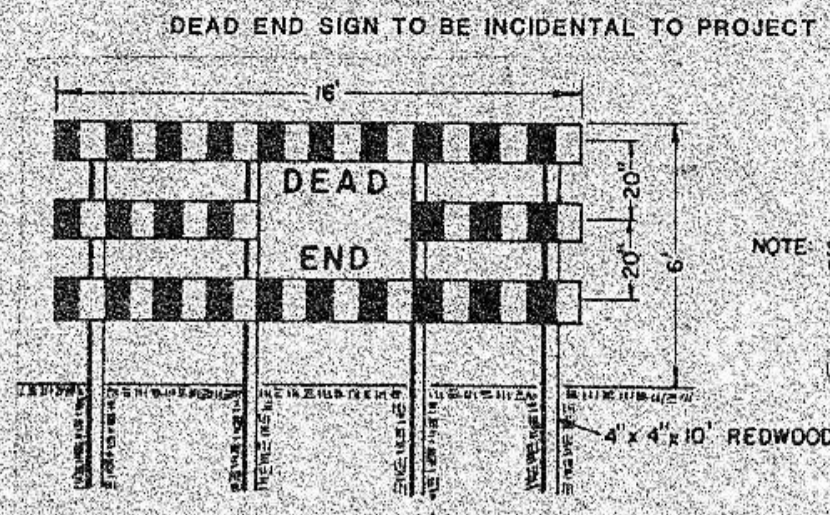
Earth Embankment	2605 C.Y.
Unclassified Earth Excavation	257 C.Y.
3 1/2" A.C. Base	4173 S.Y.
2" A.C. Wearing Course	4295 S.Y.
R.C. 800 Seal Oil	1951 S. Gal.
Chips at 30 Lbs./S.Y.	6505 S.Y.
Adjust Gate Valve	1 Each
Sealing to include 4" Topsoil	100 ACRES
Asphalt Removed	245 S.Y.
Curb and Gutter	1367 S.L.F.
6" Reinforced Concrete	502 S.F.
Concrete Removed	160 S.F.

NOTES:

- The remaining unpaved portion of Division Street shall have 3 1/2" base course and 2" surface course.
- Areas of existing asphalt on Division Street that are broken and in poor condition shall be patched. (Areas to be designated by engineer.)
- All existing asphalt edges shall be cut and tack oil applied before base course installation.
- The full width of Division Street shall receive a seal coat.

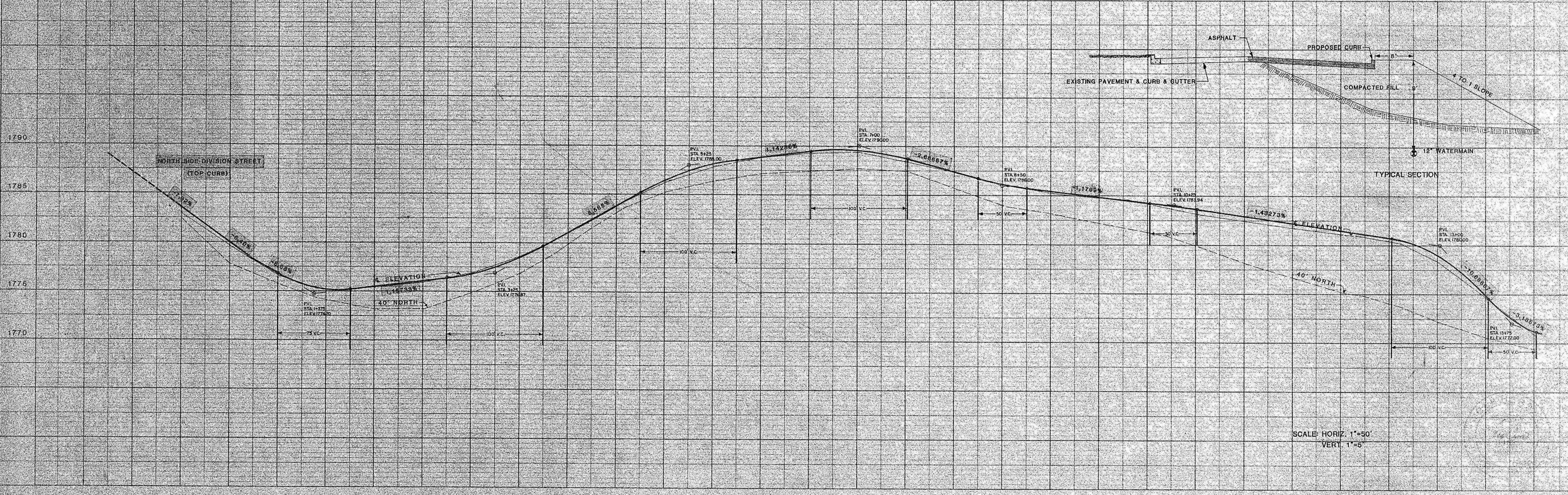
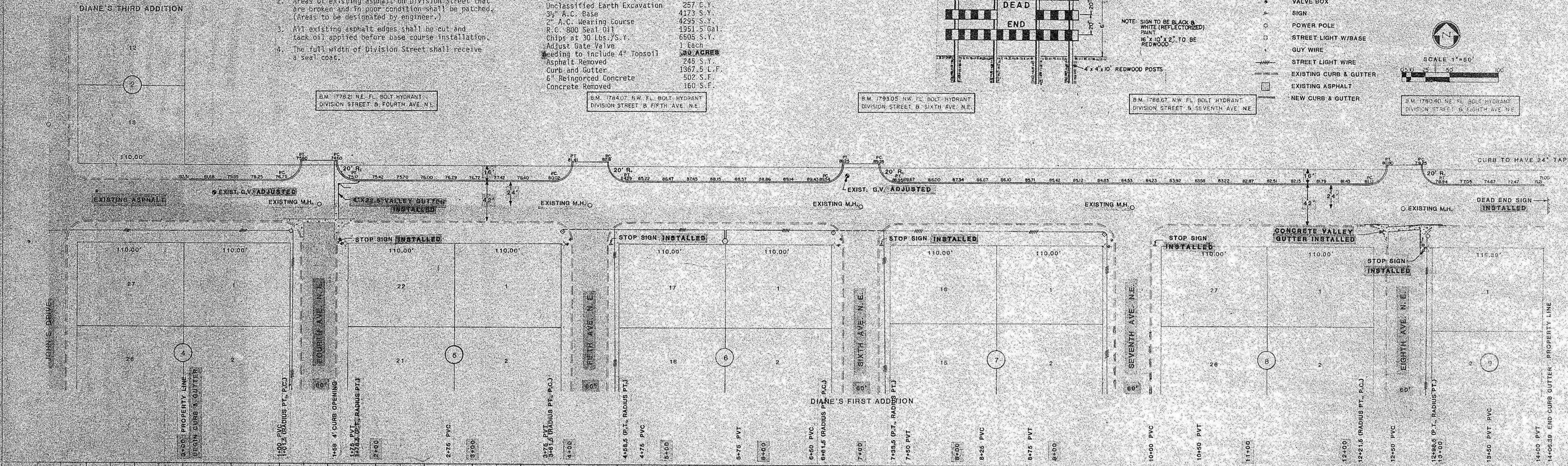
LEGEND

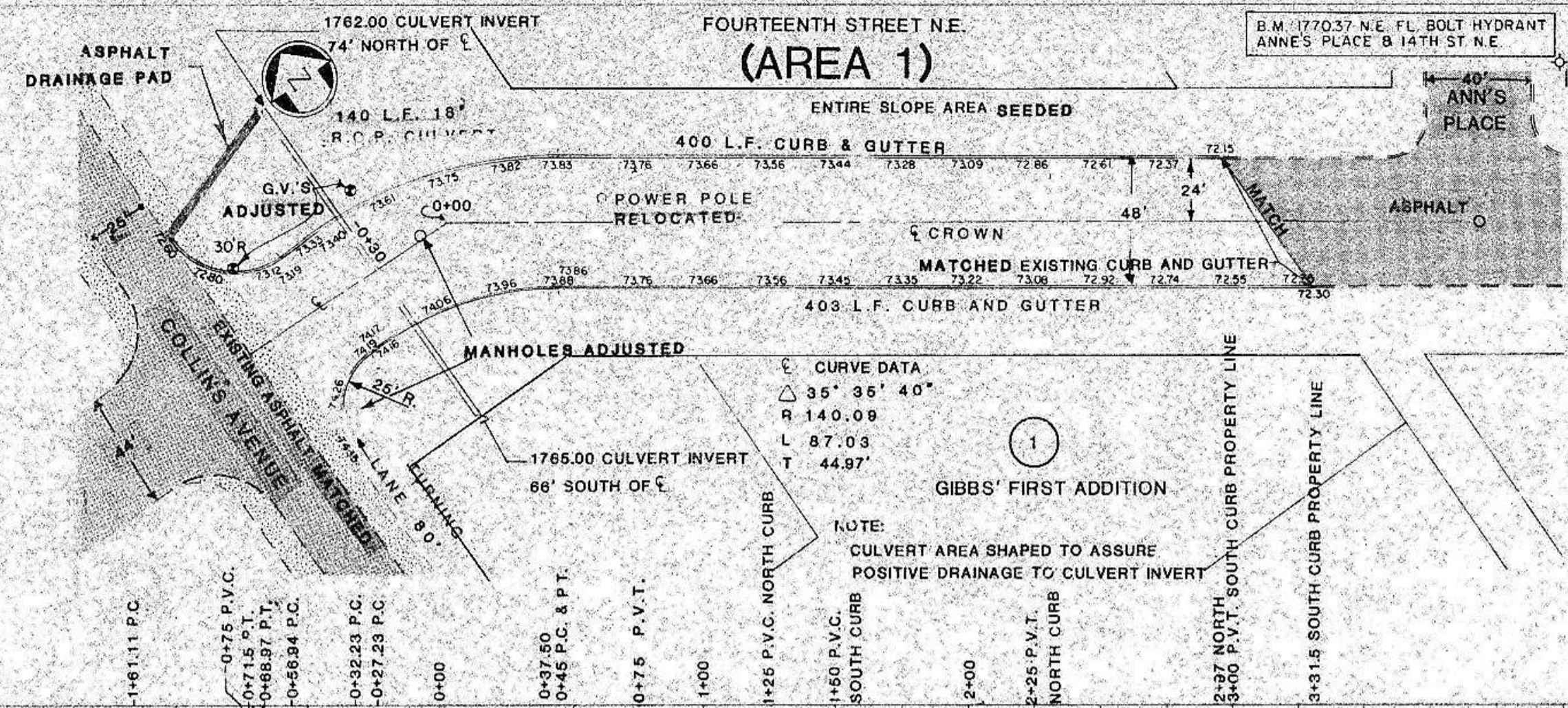
- MANHOLE
- HYDRANT
- VALVE BOX
- ▲ SIGN
- POWER POLE
- STREET LIGHT W/BASE
- GUY WIRE
- STREET LIGHT WIRE
- ▬ EXISTING CURB & GUTTER
- ▬ EXISTING ASPHALT
- ▬ NEW CURB & GUTTER



DATE: _____
BY: _____
CHECKED: _____
APPROVED: _____
NOTE: DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNLESS APPROVED BY THE ENGINEER.

DATE: _____
BY: _____
CHECKED: _____
APPROVED: _____
NOTE: PROFILE IS NOT TO BE USED FOR CONSTRUCTION UNLESS APPROVED BY THE ENGINEER.

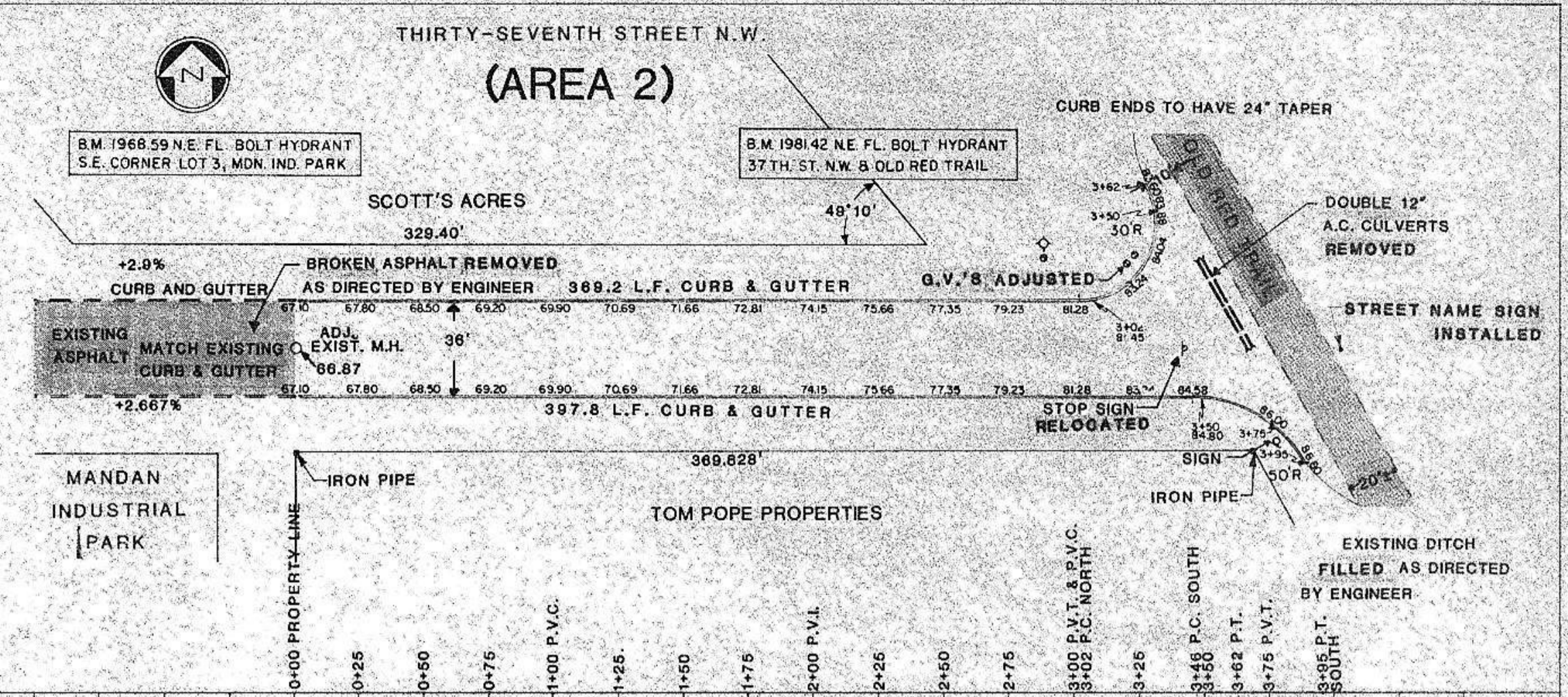
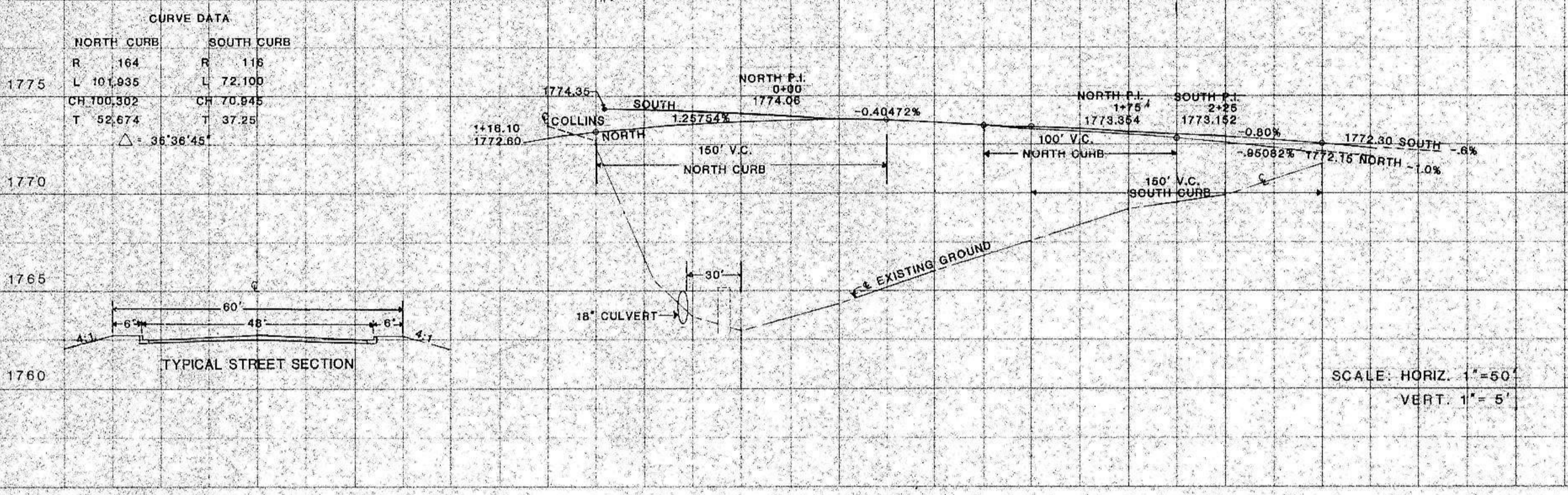




AS-BUILT QUANTITIES

Area 1 (14th Street, N.E.)

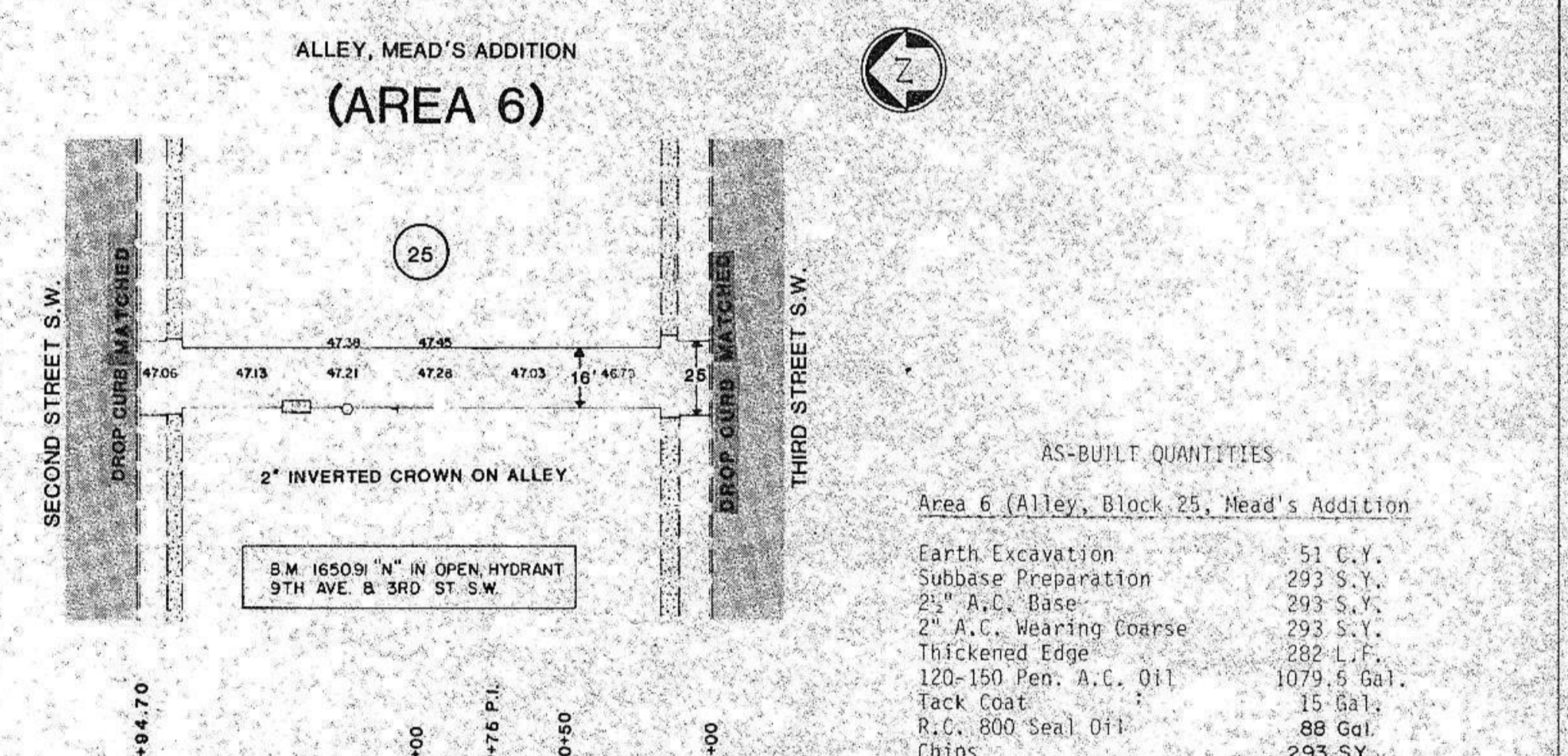
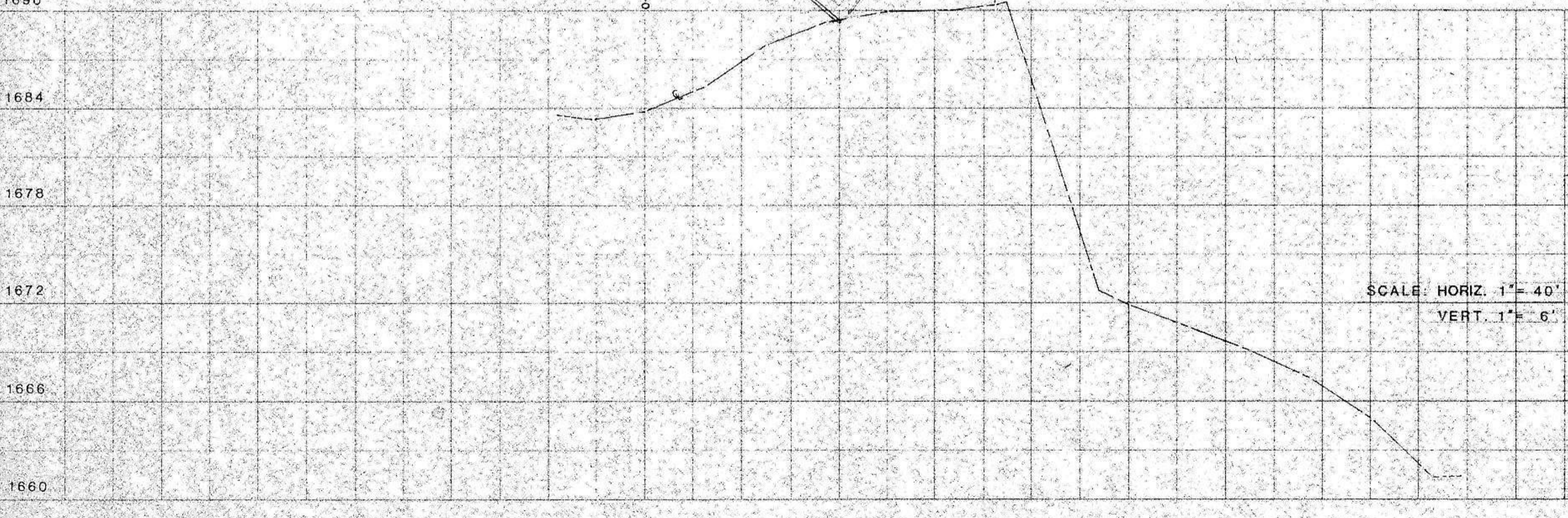
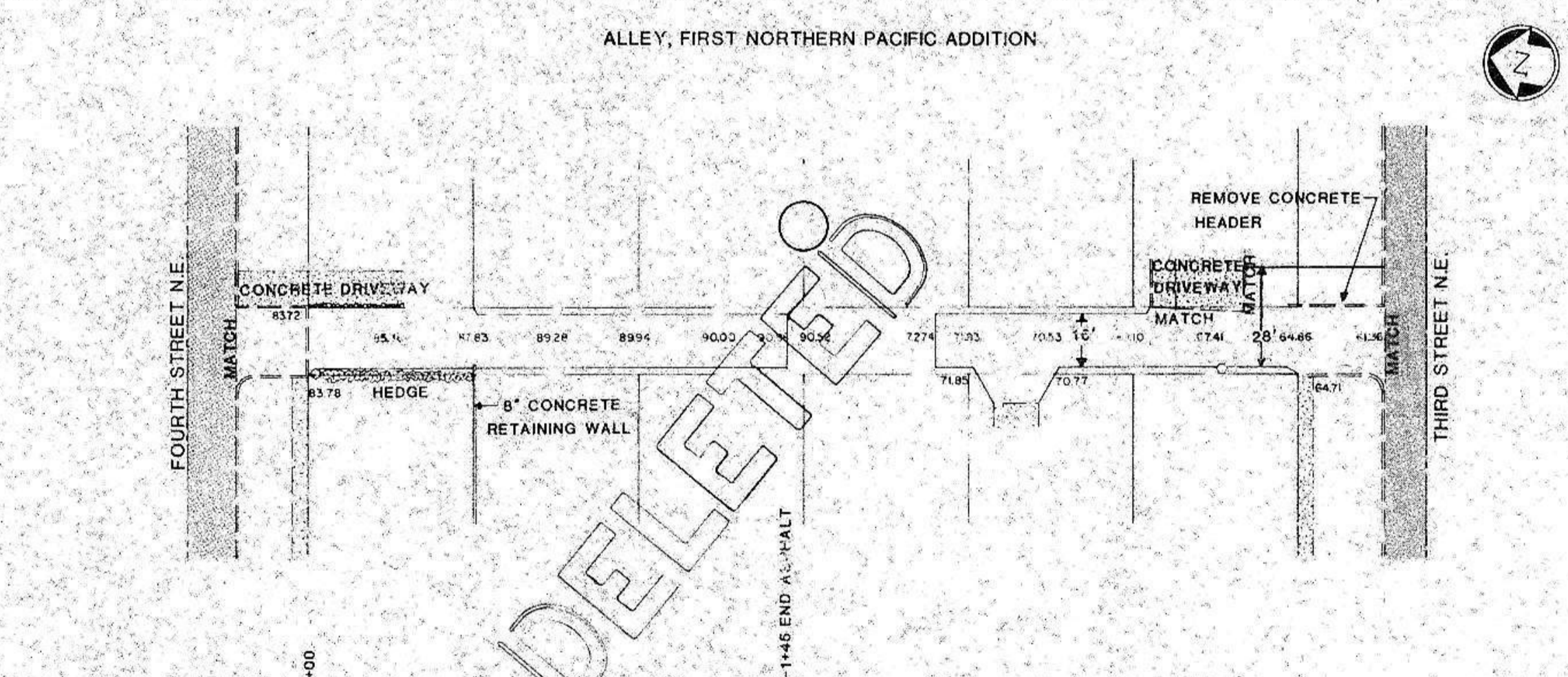
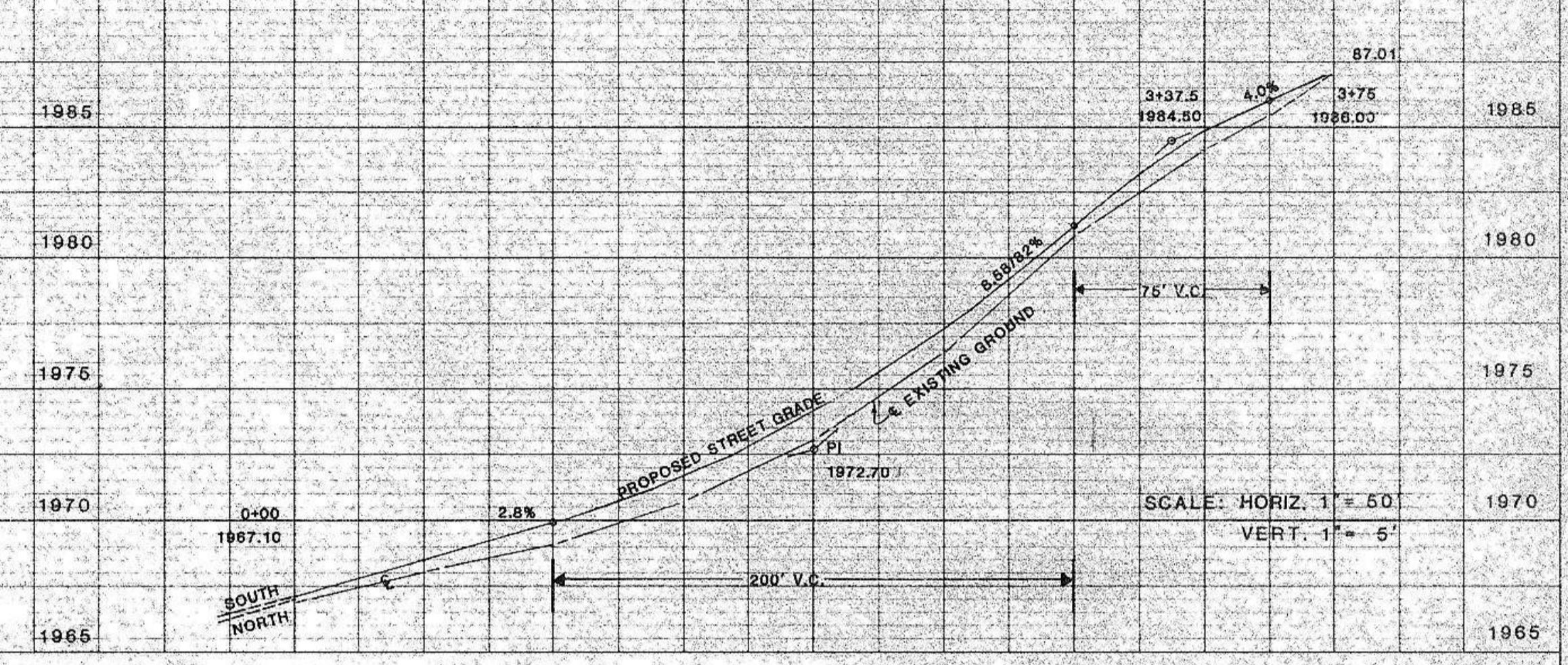
Earth Embankment	7539 C.Y.
Subbase Preparation	2037 S.Y.
3" A.C. Base	2020 S.Y.
2" A.C. Wearing Course	2020 S.Y.
120-150 Pen. A.C. Oil	6642 Gal.
Tack Coat	191 Gal.
R.C. 800 Seal Oil	2091 S.Y.
Chips	51.5 S.Y.
Seeding	140 L.
18" C.P. with Flared End	1 Ea.
Sections	1 Ea.
Post and 4 Signs	1 Ea.
Post and Stop Sign	1 Ea.
Curb and Gutter	803 L.F.



AS-BUILT QUANTITIES

Area 2 (37th Street)

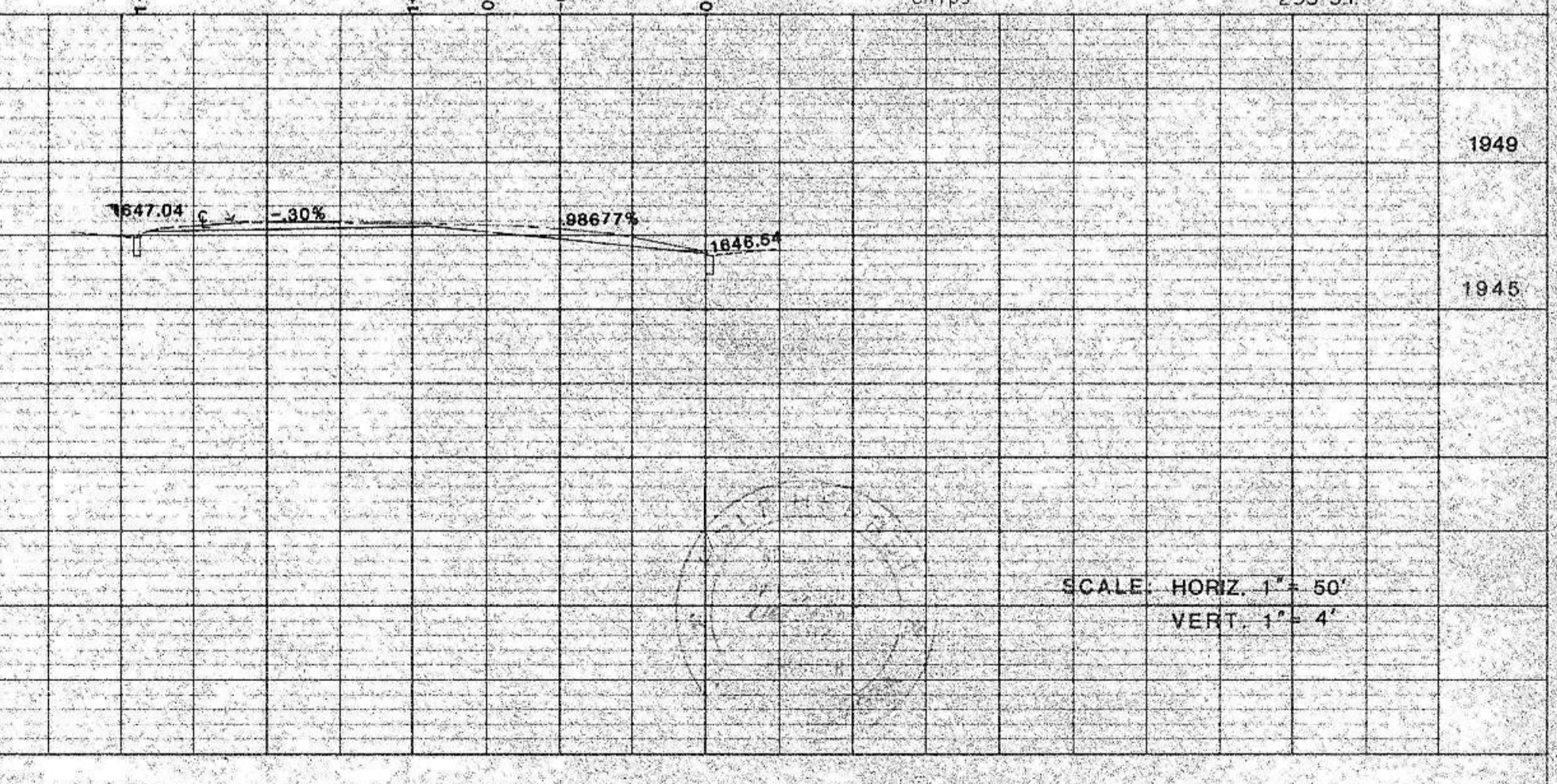
Earth Embankment	39 C.Y.
Earth Excavation	135 C.Y.
Subbase Preparation	1590 S.Y.
3" A.C. Base	1590 S.Y.
2" A.C. Wearing Course	1590 S.Y.
120-150 Pen. A.C. Oil	6001.5 Gal.
Tack Coat	79.5 Gal.
R.C. 800 Seal Oil	477.0 Gal.
Chips	1590 S.Y.
Seeding	27 ACRES
Asphalt Removal	37 S.Y.
Post & 3 Signs	1 Each
Curb & Gutter	767 L.F.



AS-BUILT QUANTITIES

Area 6 (Alley, Block 25, Mead's Addition)

Earth Excavation	51 C.Y.
Subbase Preparation	293 S.Y.
2 1/2" A.C. Base	293 S.Y.
2" A.C. Wearing Course	293 S.Y.
Thickened Edge	293 L.F.
120-150 Pen. A.C. Oil	1079.5 Gal.
Tack Coat	15 Gal.
R.C. 800 Seal Oil	88 Gal.
Chips	293 S.Y.



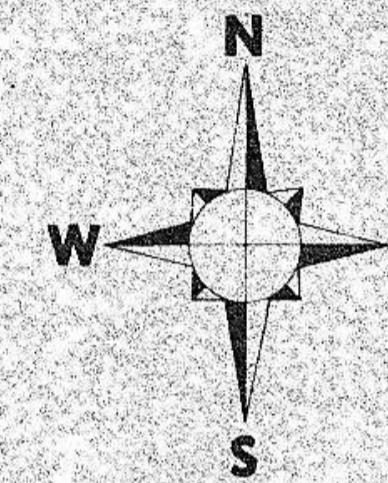
KULHWAY FEDERAL ARCHITECT
 PLATE 2-DOUBLE PLAN AND PROFILE-FULL LINE
 PRINTED IN U.S.A.

PRELIMINARY PLAT DIANE'S THIRD ADDITION MANDAN, NORTH DAKOTA

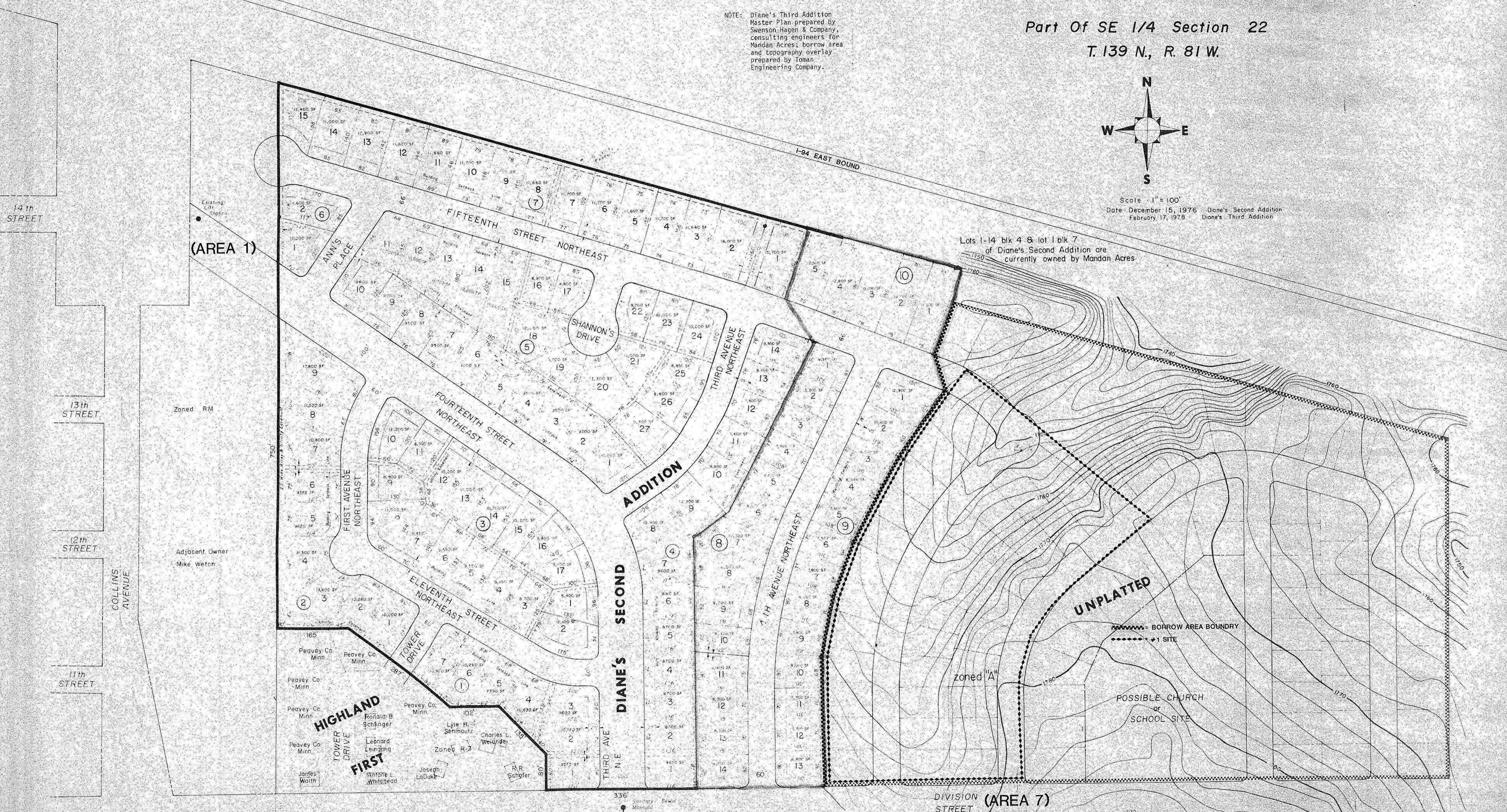
MASTER PLAN

NOTE: Diane's Third Addition Master Plan prepared by Swenson Hagen & Company, consulting engineers for Mandan Acres; borrow area and topography overlay prepared by Tomlin Engineering Company.

Part Of SE 1/4 Section 22
T. 139 N., R. 81 W.



Scale - 1" = 100'
Date - December 15, 1976 Diane's Second Addition
February 17, 1978 Diane's Third Addition



(AREA 1)

Lots 1-14 blk 4 & lot 1 blk 7 of Diane's Second Addition are currently owned by Mandan Acres

DIANE'S SECOND ADDITION

UNPLATTED

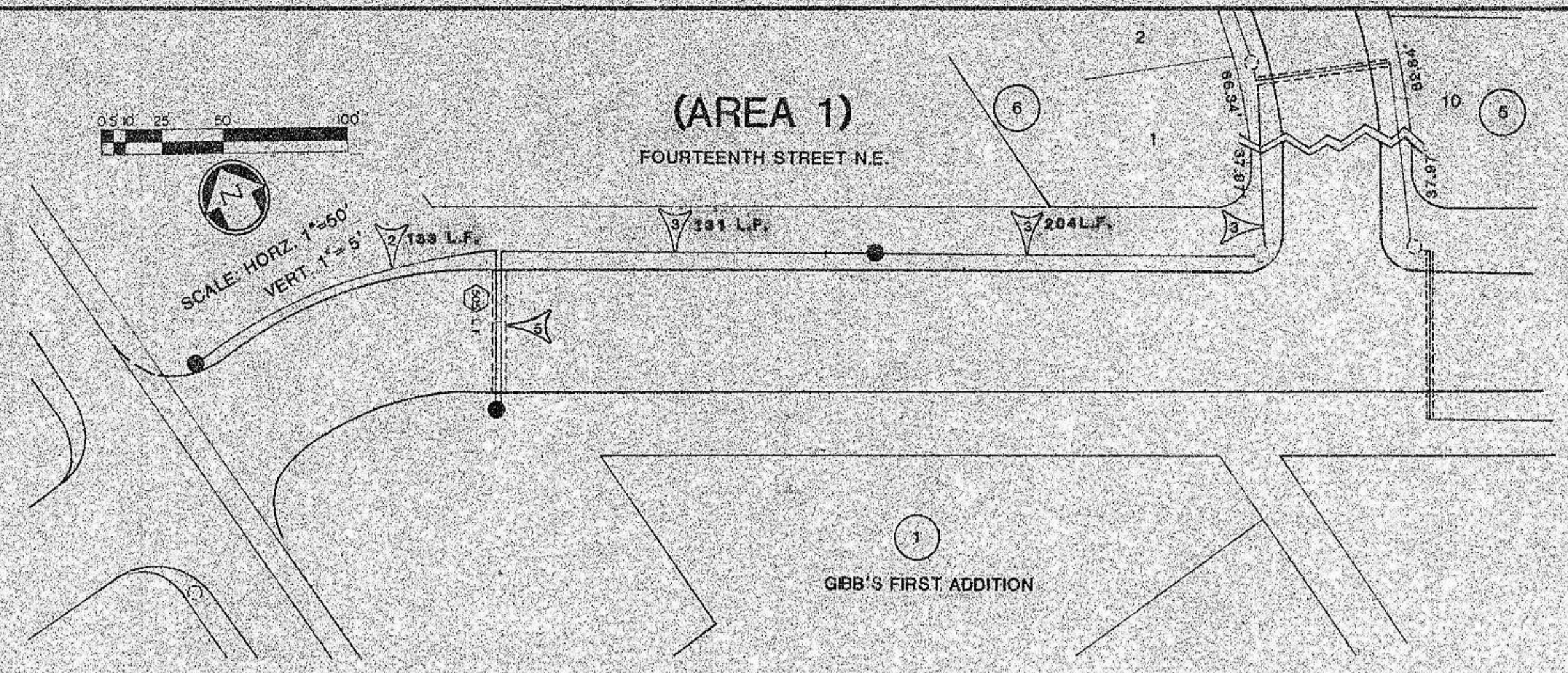
zoned HA

DIVISION STREET (AREA 7)

PROPOSED ZONING for DIANE'S THIRD ADDITION
R 3.2 lot 1 blk 8, lot 1 blk 9
R 7 lots 2-14 blk 8, lots 2-13 blk 9

STREET IMPROVEMENT DISTRICT NO. 59 MANDAN, N.D.

SHEET NO. 3 OF 6 SHEETS

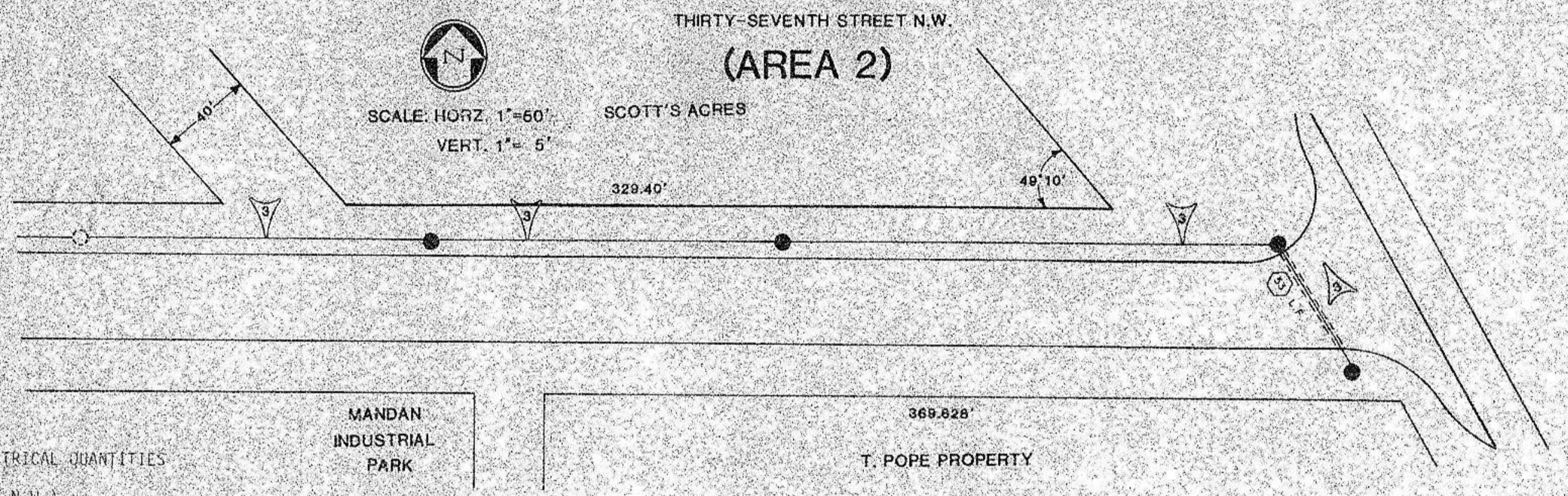
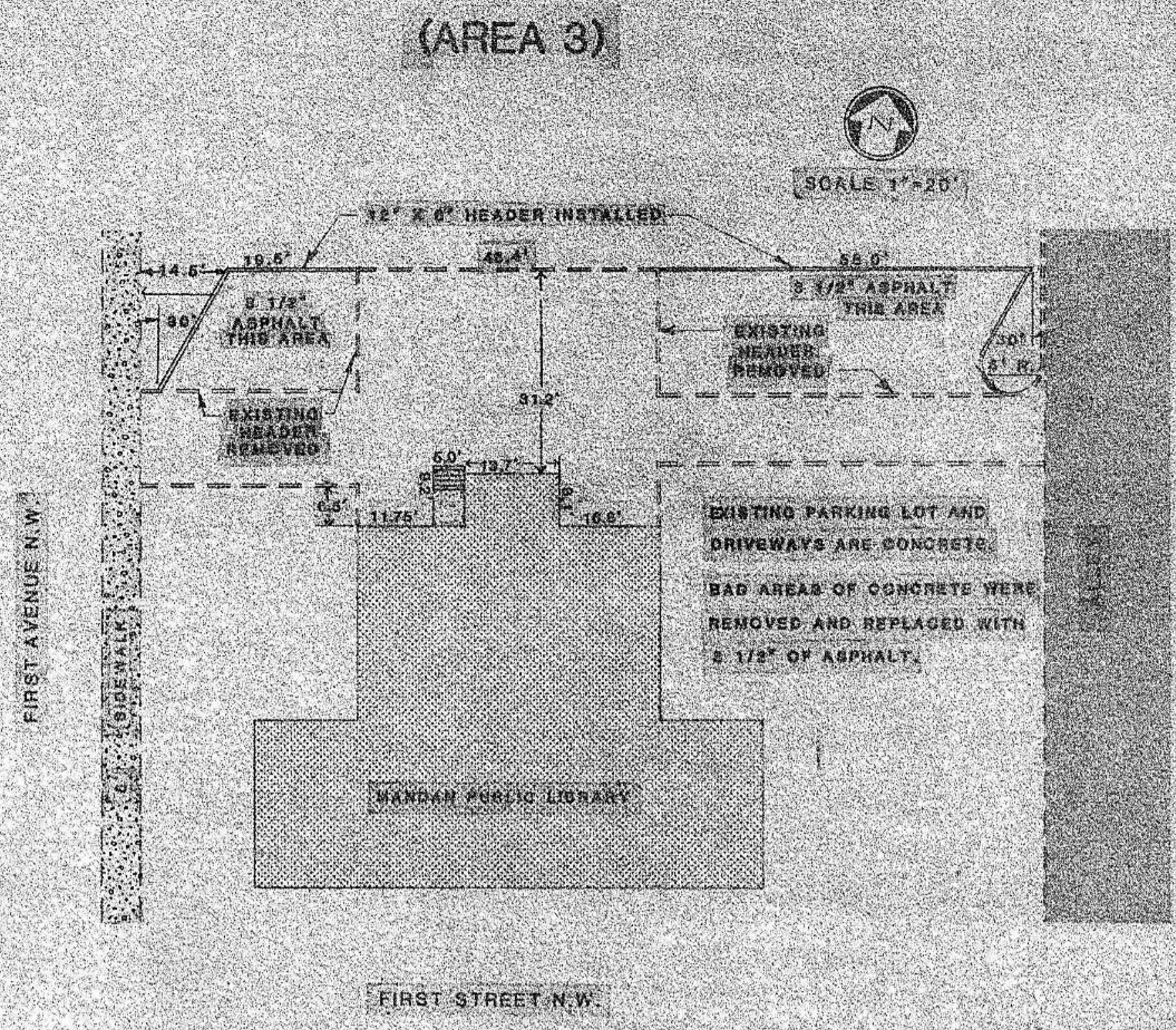


AS-BUILT ELECTRICAL QUANTITIES

Area 1 (14th Street N.E.)

Trenching - 6" Wide	468 L.F.
Street Lights Type A	2 Each
Street Lights Type B	1 Each
2" Conduit Laid in Trench	101 L.F.
3, No. 4 Stranded Copper	395.5 L.F.
2, No. 4 Stranded Copper	183.5 L.F.
Power Pole Relocation	Lump Sum

- LEGEND**
- STREET LIGHT UNIT
 - JUNCTION BOX
 - △ STREET LIGHT FEEDPOINT
 - UNDERGROUND CONDUCTOR, TRENCH LAY
 - - - UNDERGROUND CONDUCTOR, IN CONDUIT
 - △ NUMBER OF CONDUCTORS
 - A = 150 WATT IES
 - B = 250 WATT IES
 - △ 1 = CIRCUIT NO. & STANDING NO.
 - EXISTING CONTROL CENTER
 - EXISTING ST. LIGHT UNIT
 - NO. OF L.F. CONDUIT TO BE INSTALLED

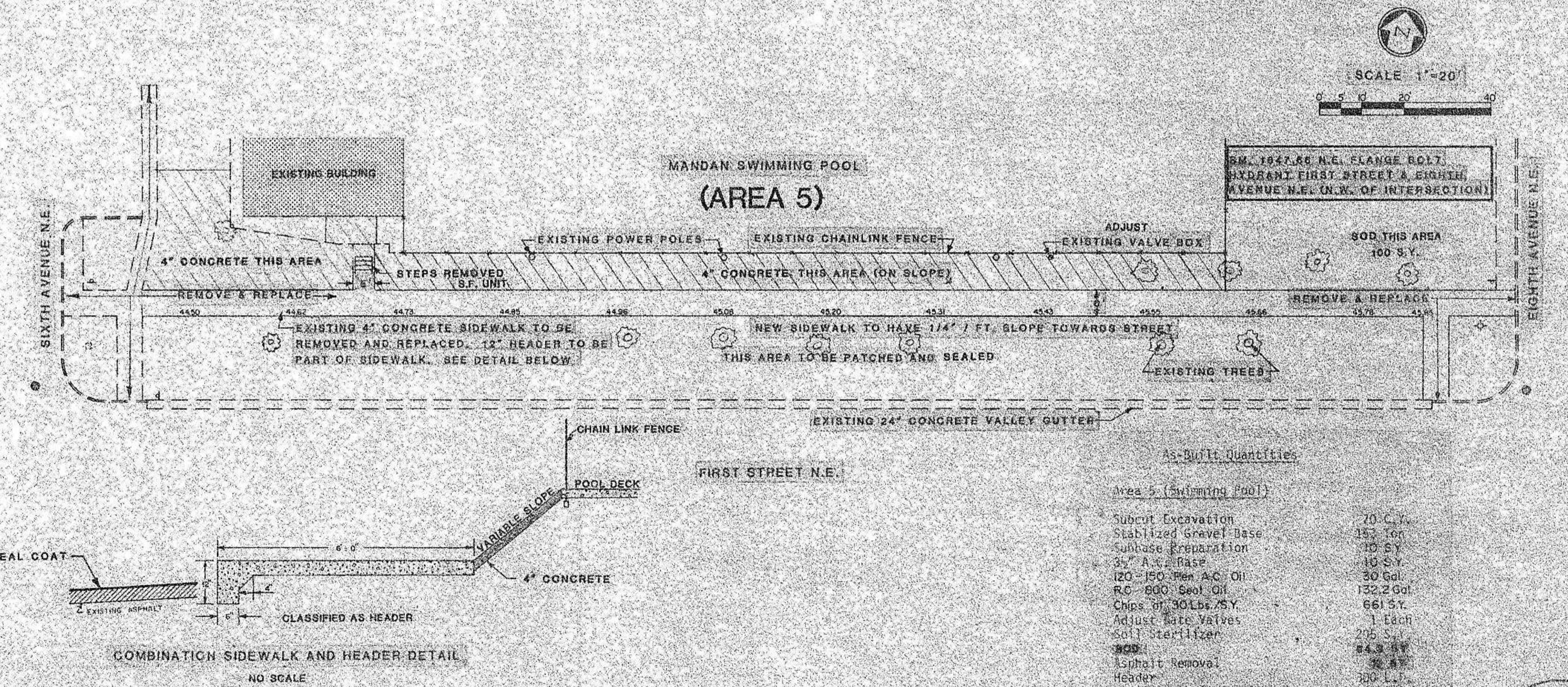


AS-BUILT ELECTRICAL QUANTITIES

Area 2 (37th Street N.W.)

Trenching - 6" Wide	555 L.F.
Street Lights Type A	2 Each
Street Lights Type B	2 Each
2" Conduit Laid in Trench	53 L.F.
3, No. 4 Stranded Copper	955 L.F.

STREET LIGHT LAYOUTS

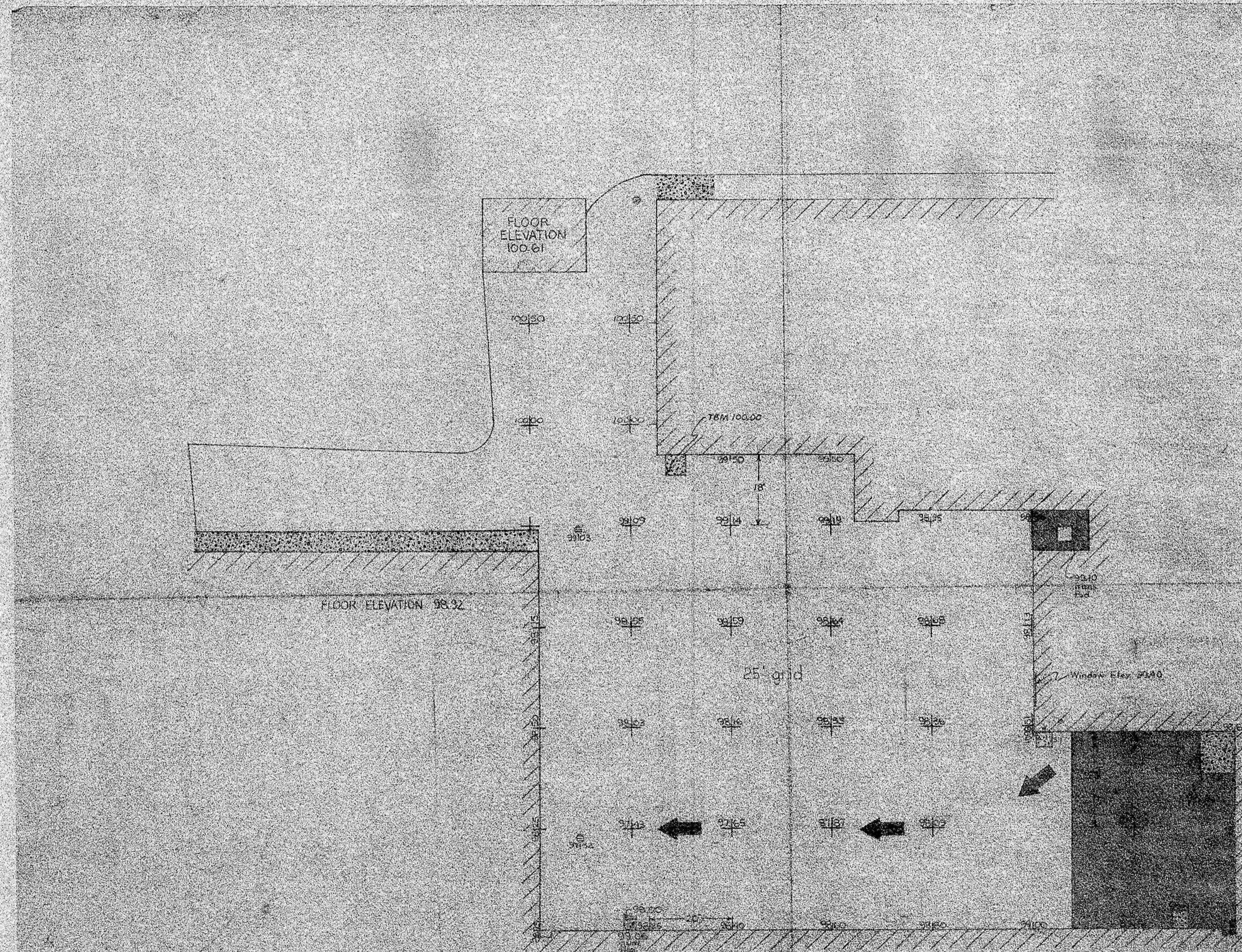


As-Built Quantities

Area 5 (Swimming Pool)

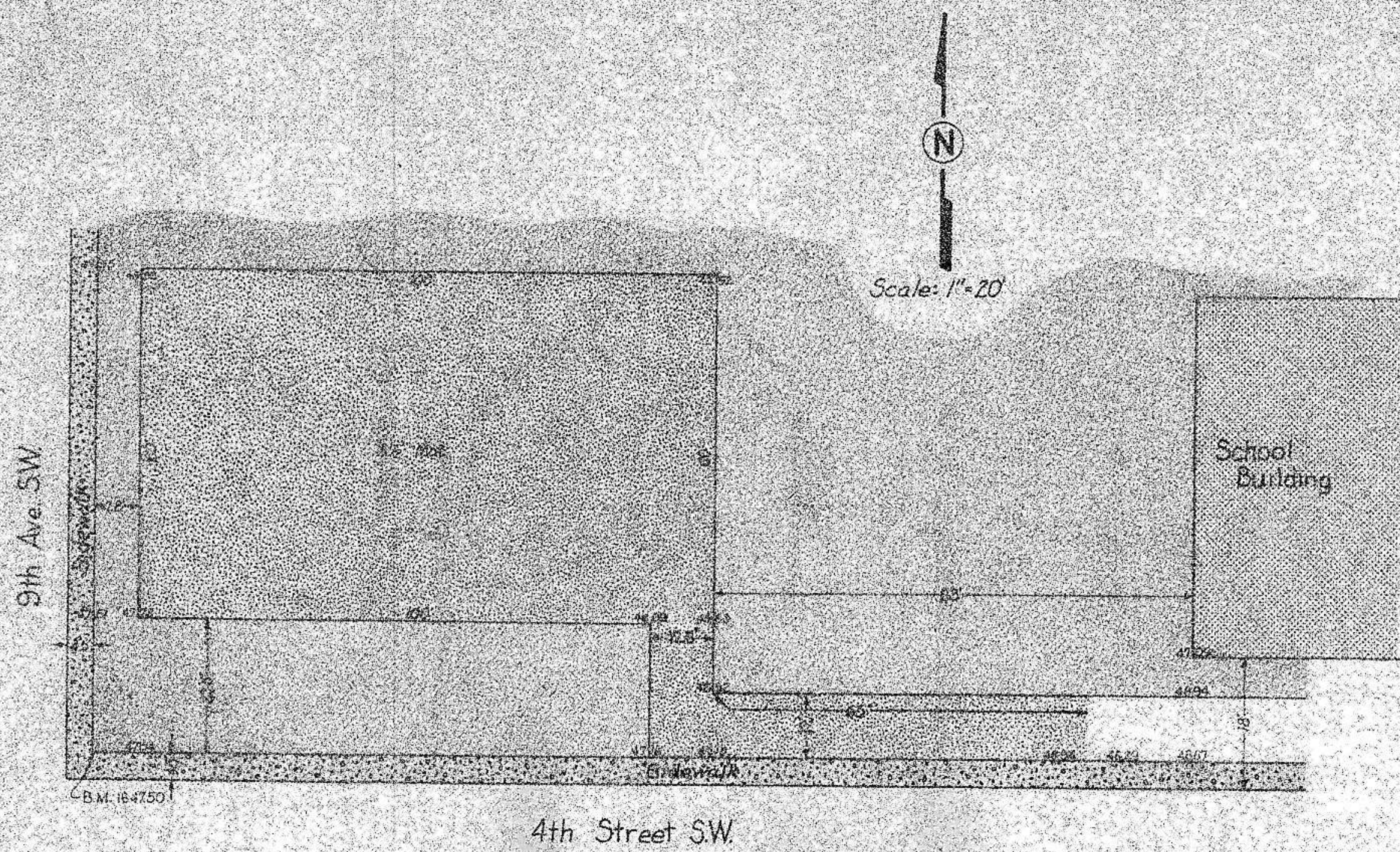
Subcut Excavation	70 C.Y.
Stabilized Gravel Base	153 Ton
Subbase Preparation	10 S.Y.
4" A.C. Base	16 S.Y.
120 - 150 Ppm A.C. Oil	30 Gall.
R.C. 600 Seal Oil	132.2 Gall.
Chps. of 30 Lbs. AS.Y.	661 S.Y.
Adjust Gate Valves	1 Each
Soil Sterilizer	295 S.Y.
600	84.3 S.Y.
Asphalt Removal	32 S.Y.
Header	307 L.F.
1" Sidewalk (10% Slope)	5,082 S.Y.
Concrete Removal	2,481 S.Y.





- Scale 1/8" = 1'-0"
- MANDAN JR. HIGH
- /// = EXISTING BUILDING
 - ▒ = EXISTING CONCRETE
 - = ASPHALT NOT REMOVED
 - ⊕ = CATCH BASIN
 - ⊙ = FINISHED ASPHALT GRADE
- DATE: 11/15/88

ASBUILT DRAWING

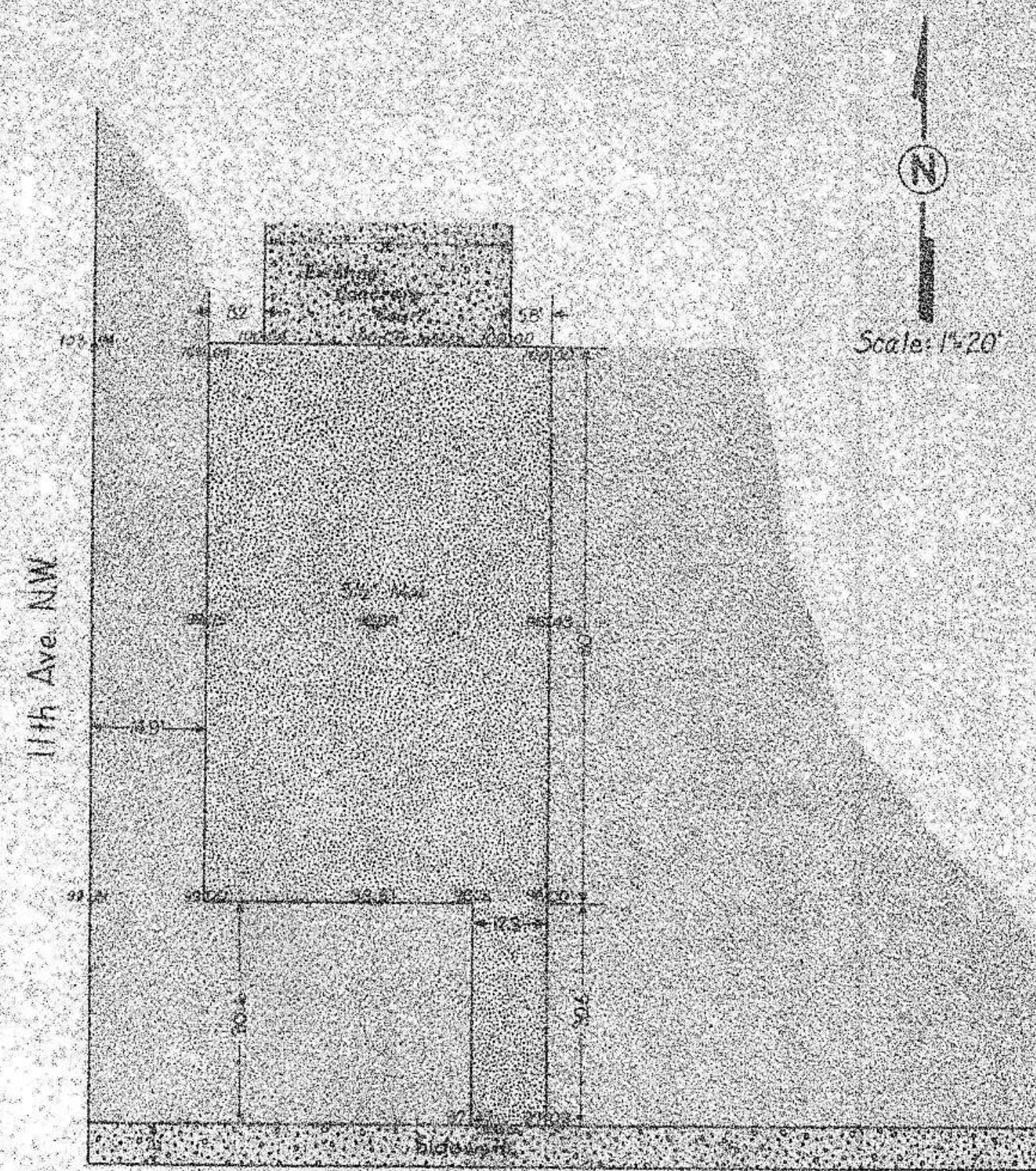


MARY STARK SCHOOL
ST. IMP. DISTRICT NO. 59

As-Built Quantities

Mary Stark School

Earth Embankment	98 C.Y.
Subcut Excavation	15.1 C.Y.
Stabilized Gravel Base	880.5 Ton
Subbase Preparation	784 S.Y.
3 1/2" A.C. Base	784 S.Y.
120-150 Pen. A.C. 011	1,884 Gallon

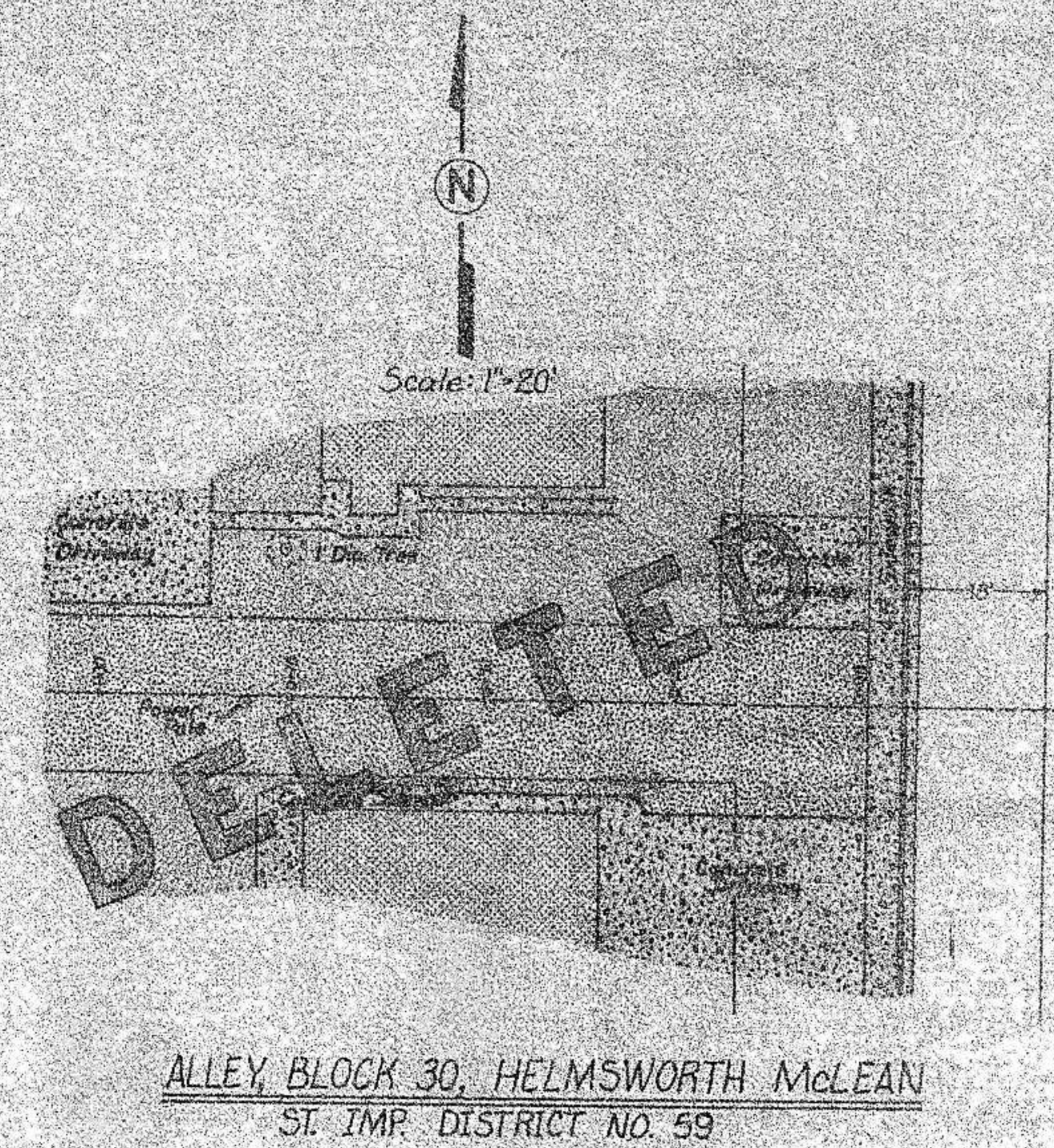


ROOSEVELT GRADE SCHOOL
ST. IMP. DISTRICT NO. 59

As-Built Quantities

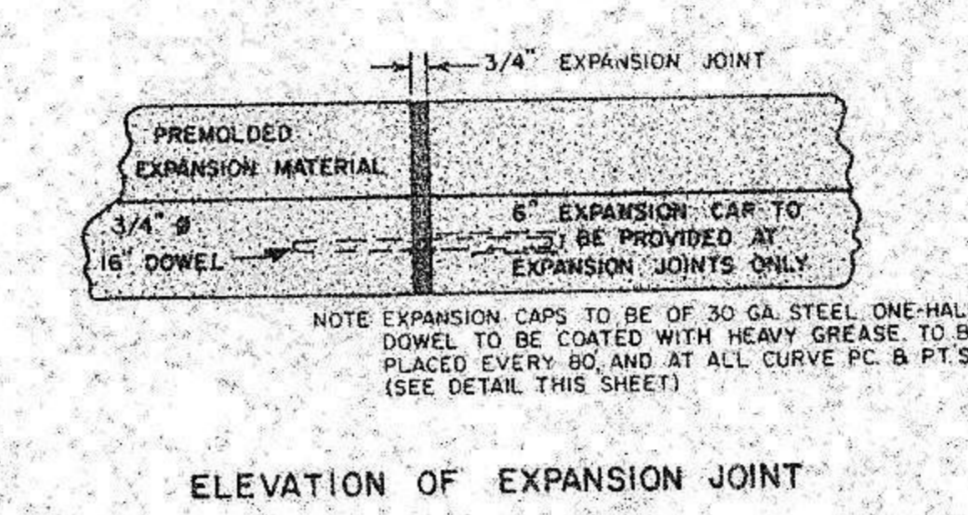
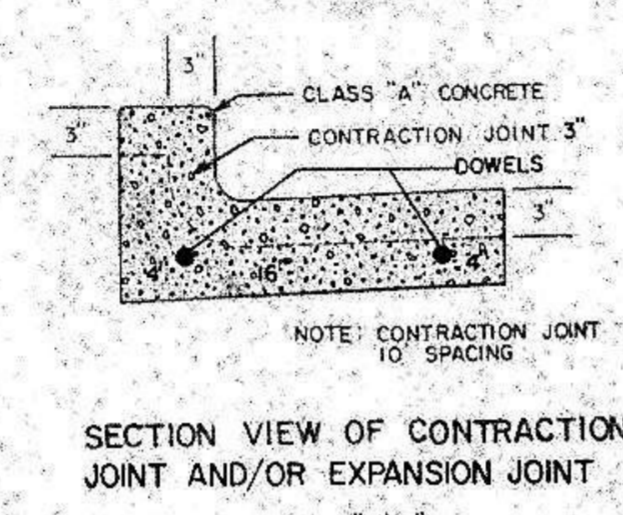
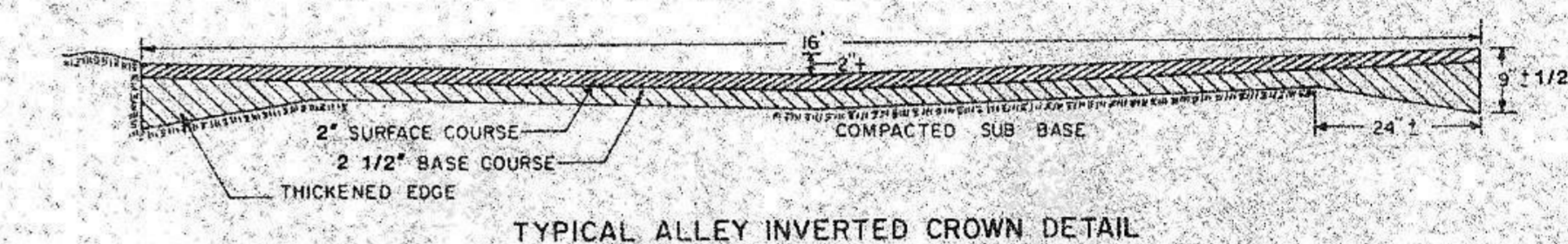
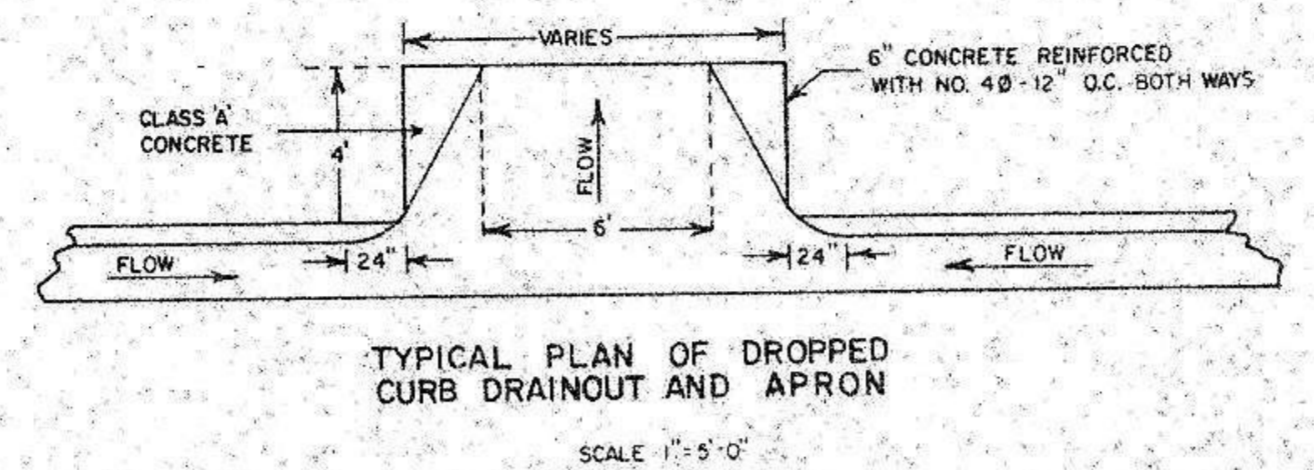
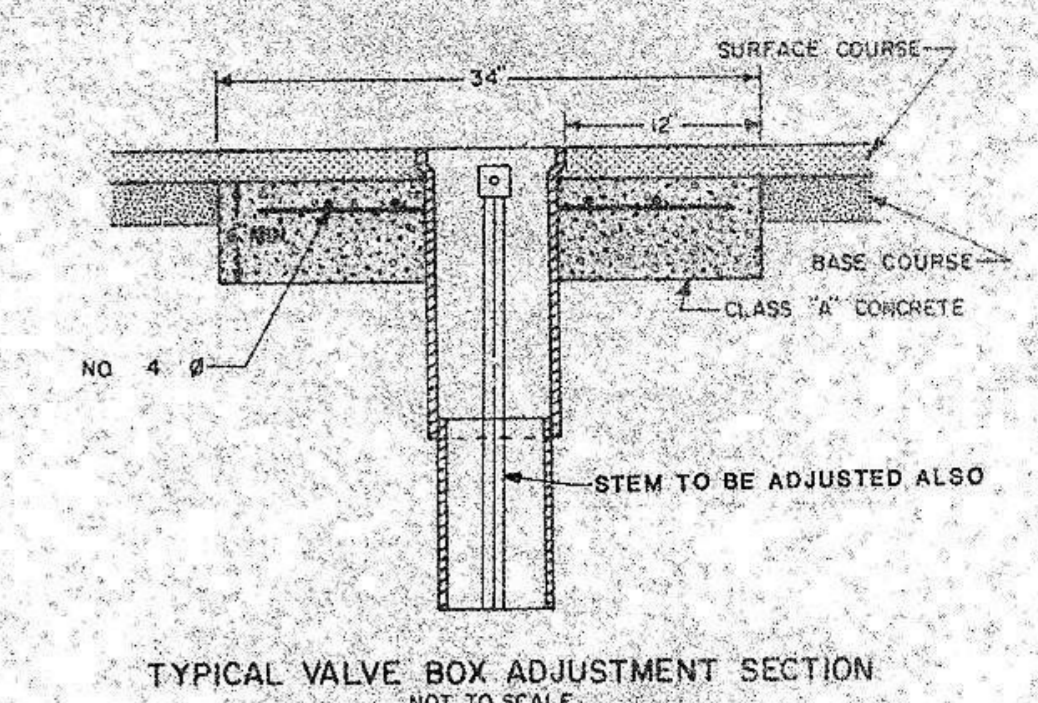
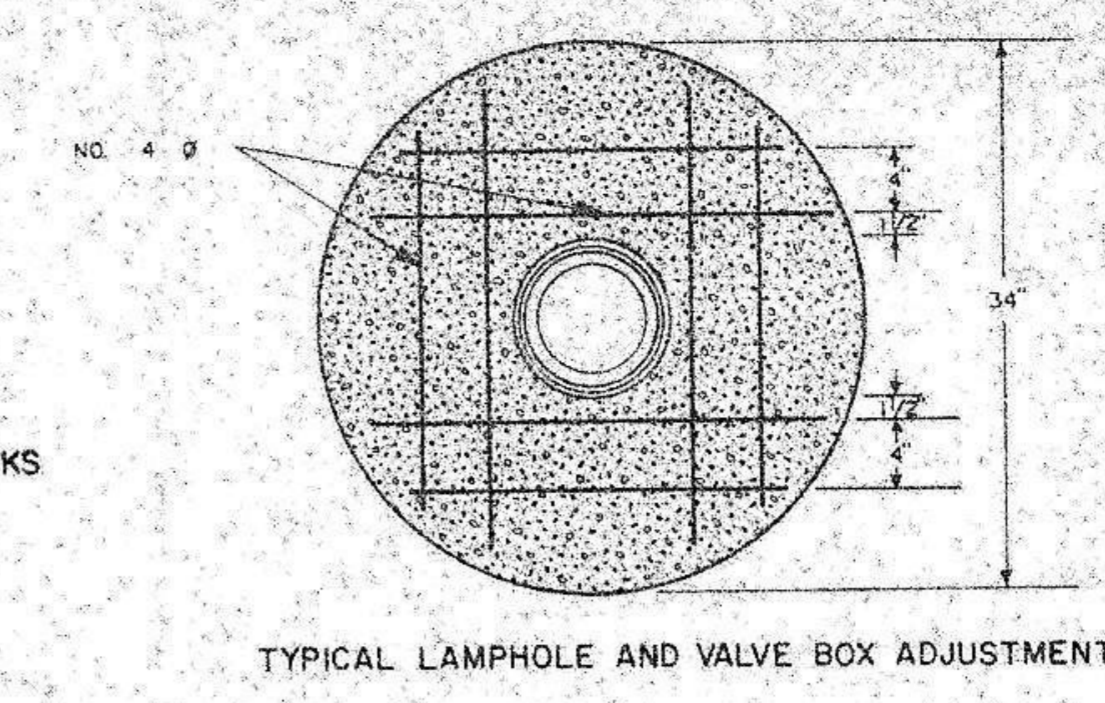
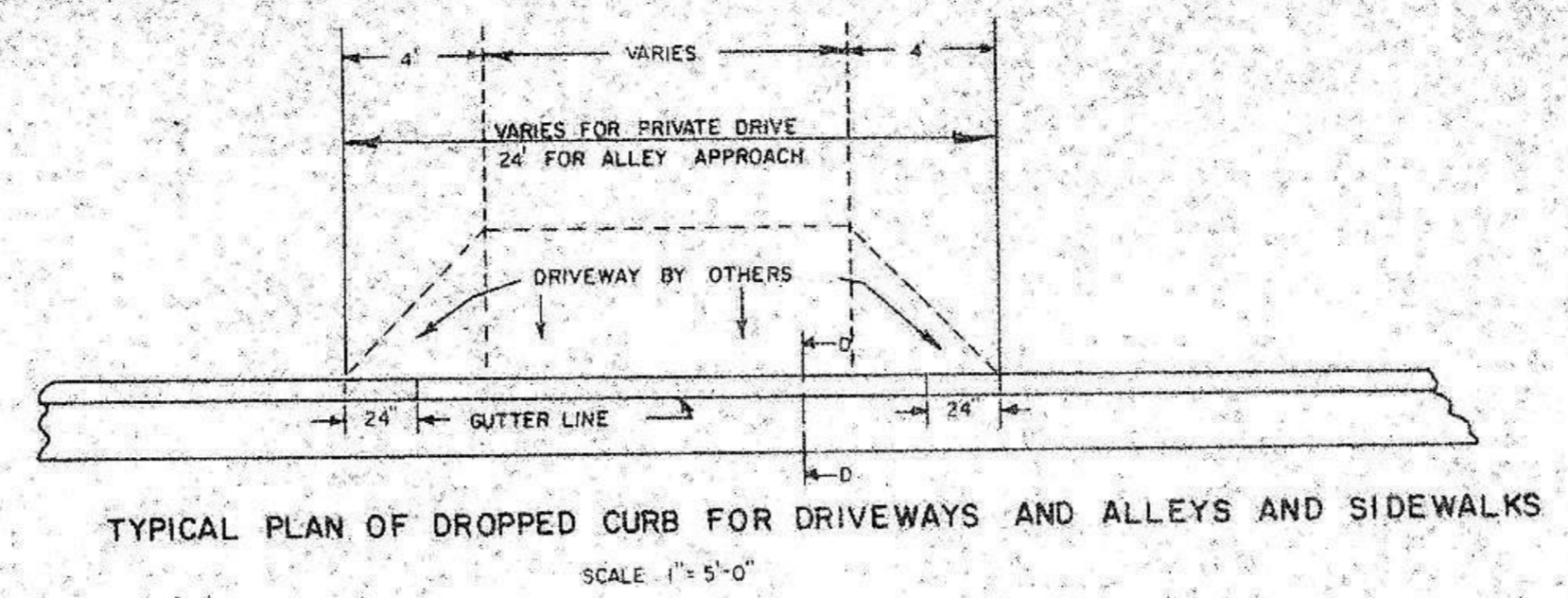
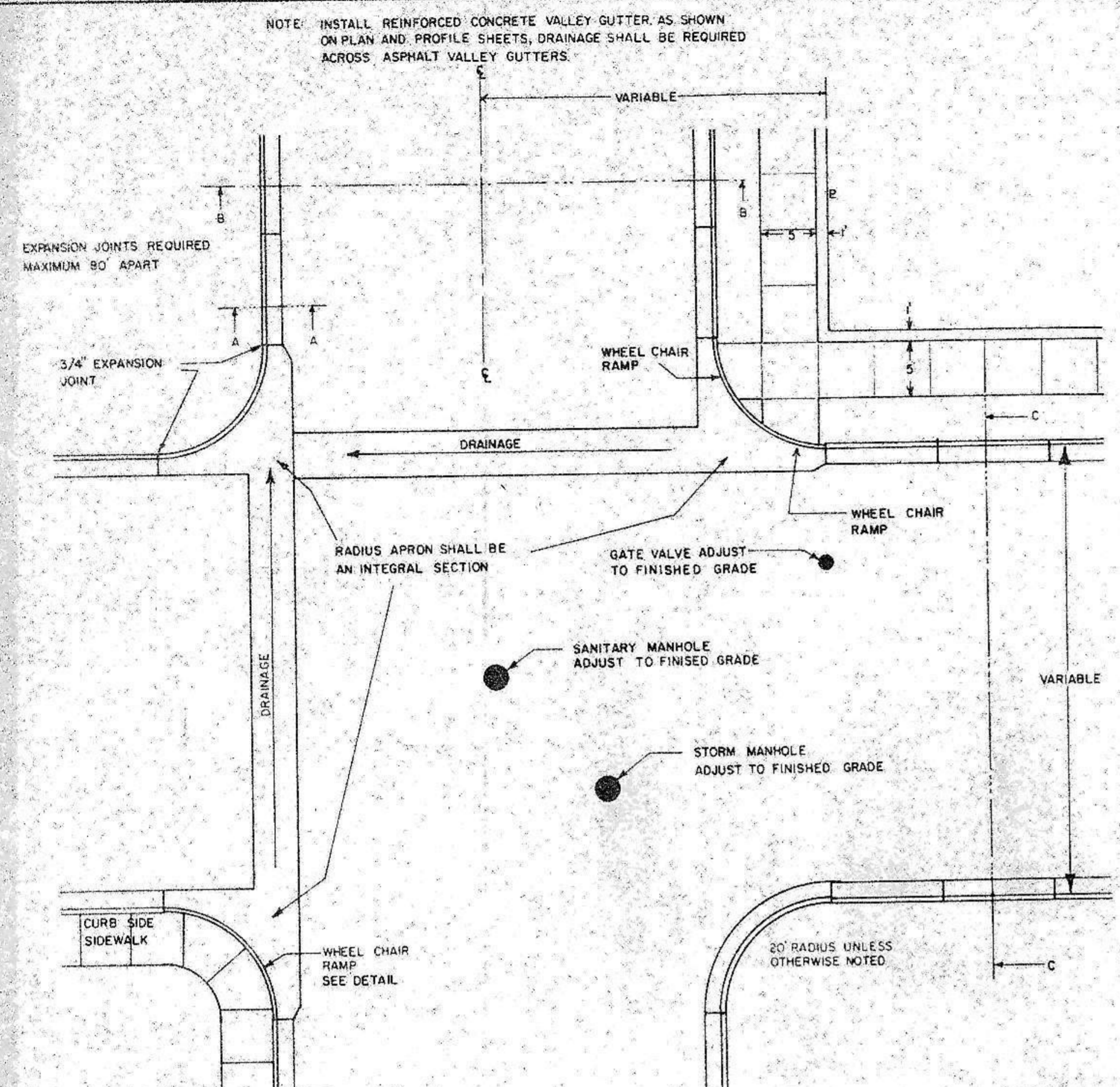
Roosevelt Grade School

Earth Embankment	24 C.Y.
Earth Excavation	20 C.Y.
Stabilized Gravel Base	52 Ton
Subbase Preparation	464 S.Y.
3 1/2" A.C. Base	464 S.Y.
120-150 Pen. A.C. 011	1,163 Gallon

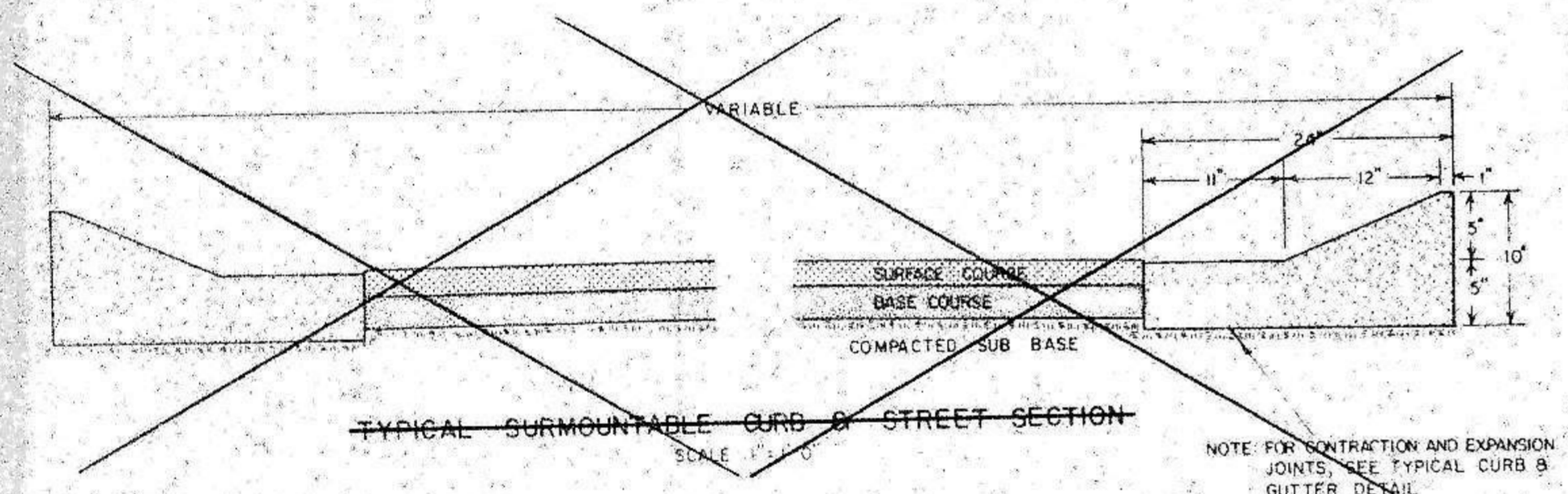
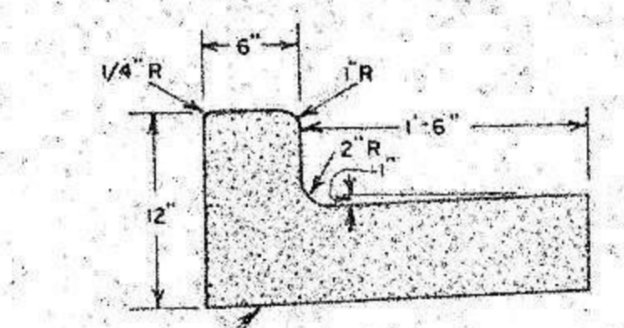
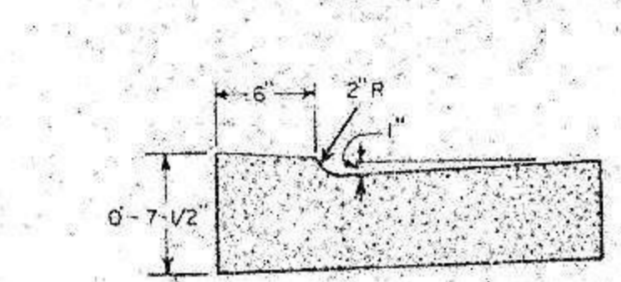
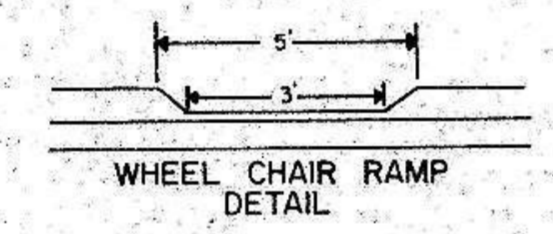
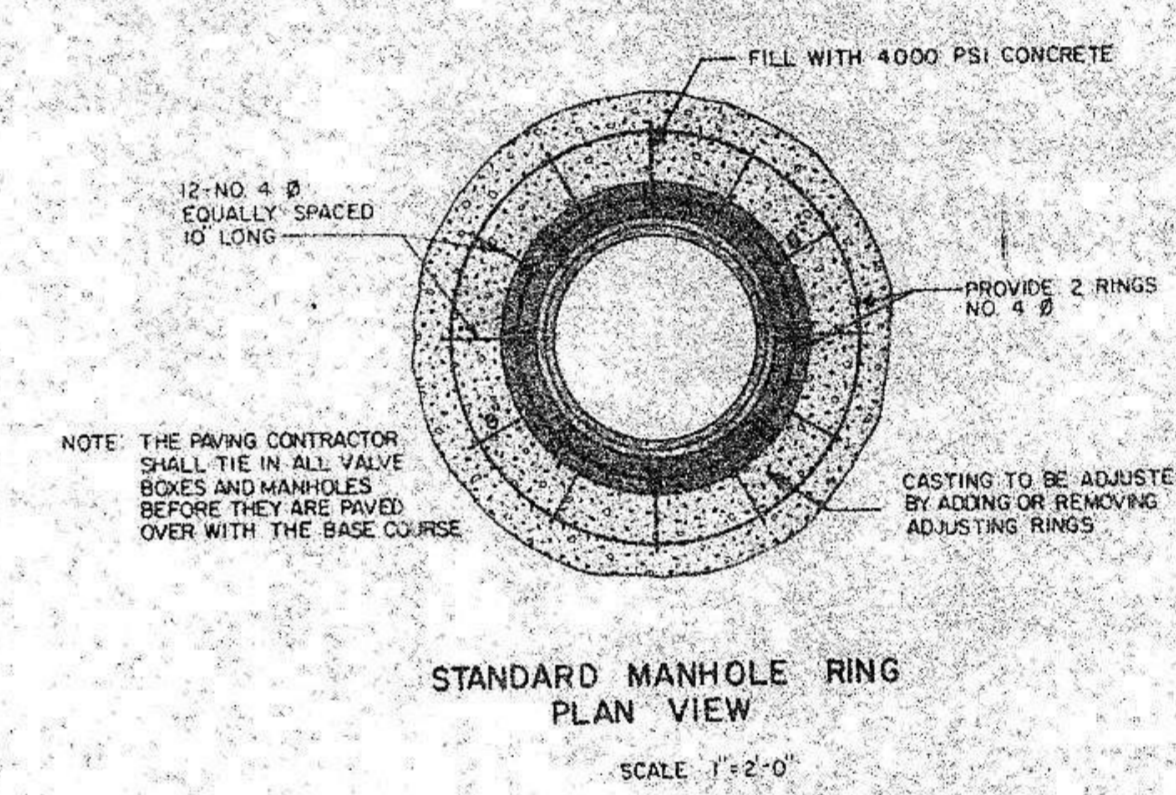


STREET IMPROVEMENT NO. 59

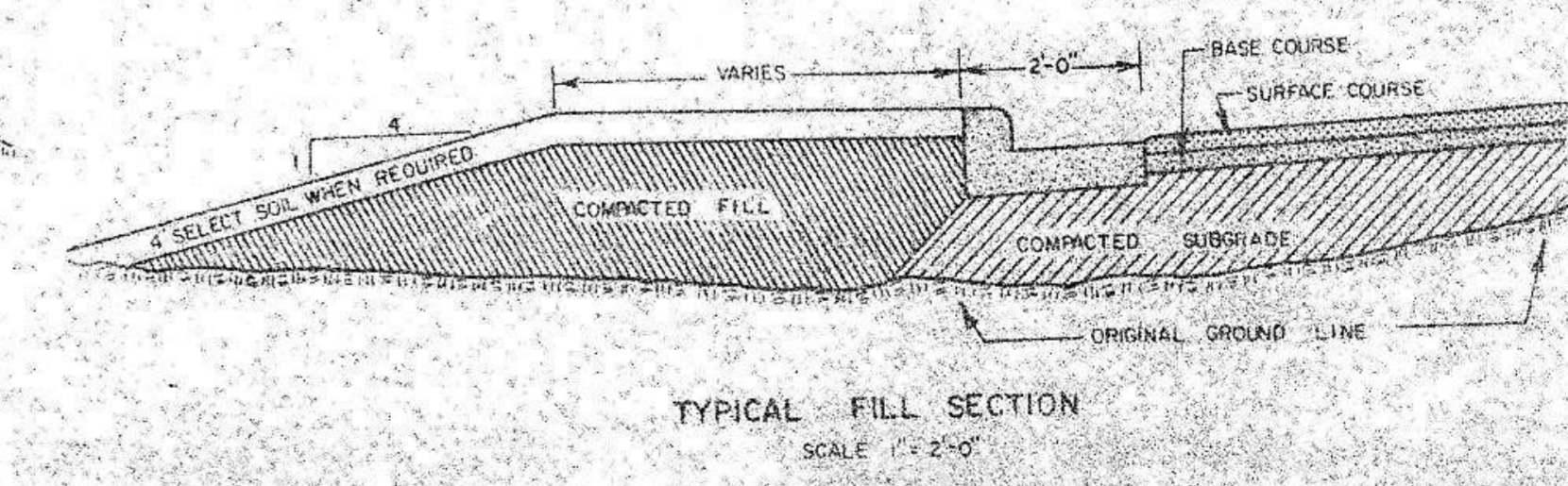
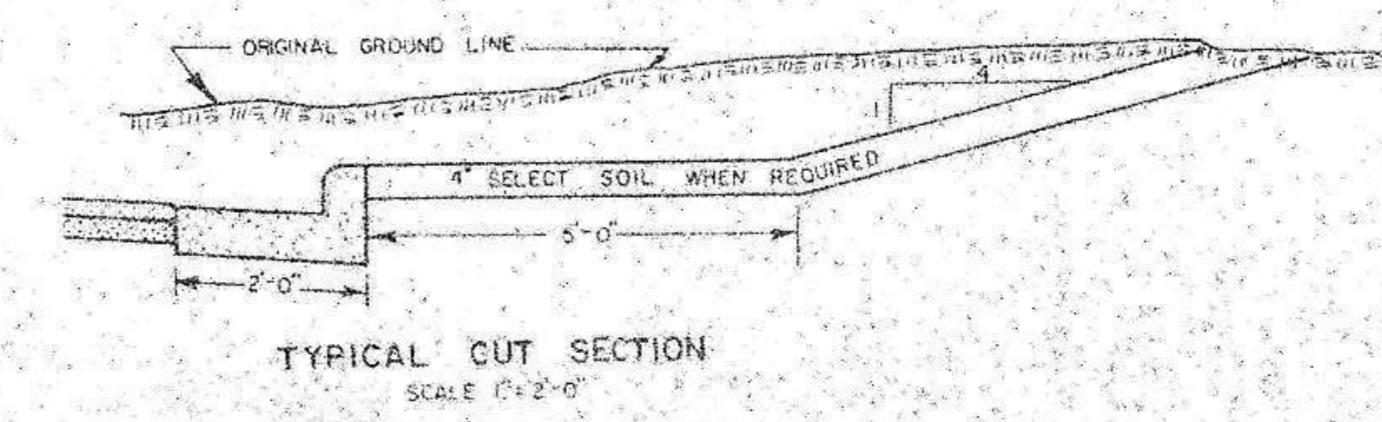
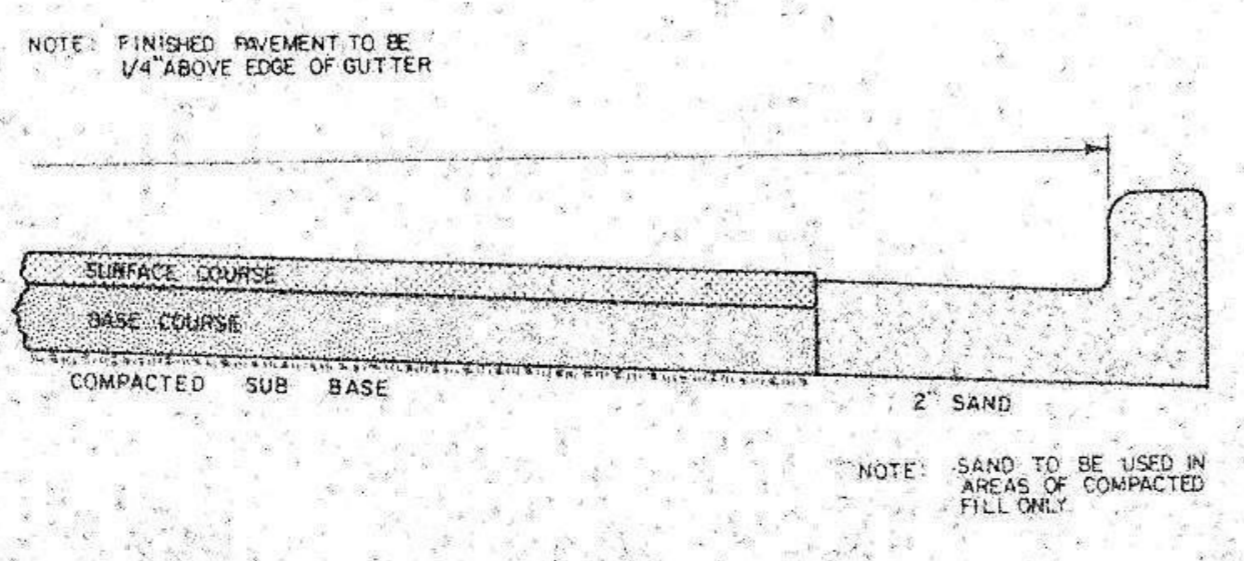
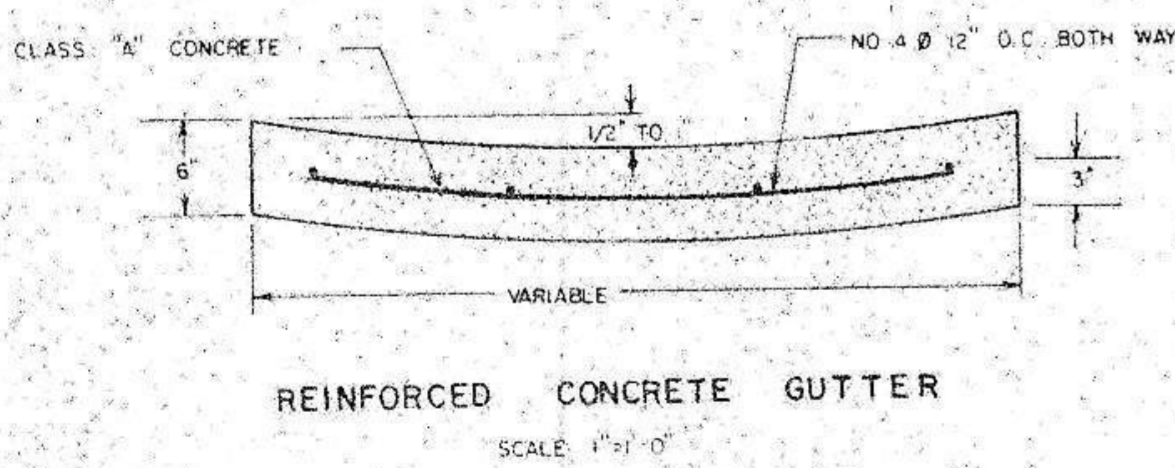
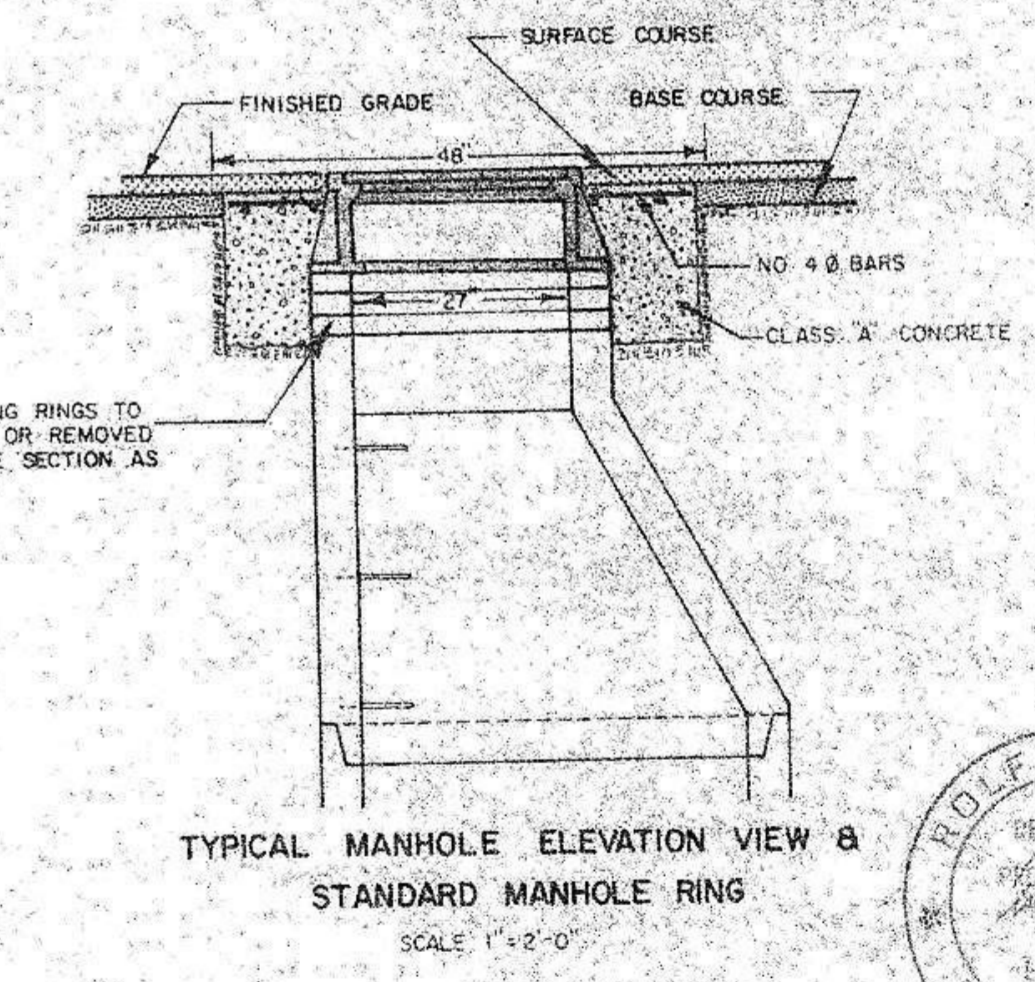
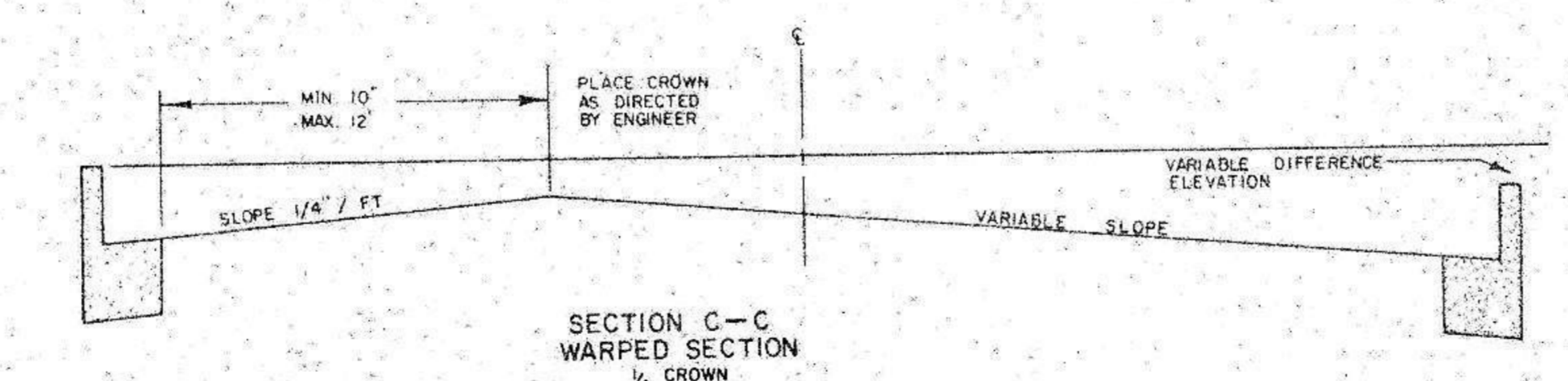
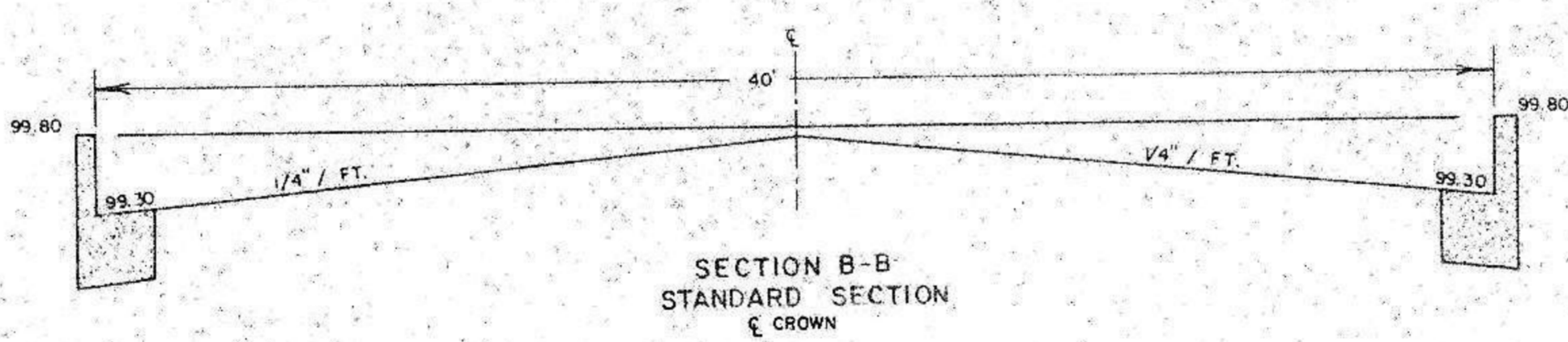
ASBUILT DRAWINGS



MACHINE CURB & GUTTER WILL BE ALLOWED PROVIDED TEMPLATE IS APPROVED BY ENGINEER.

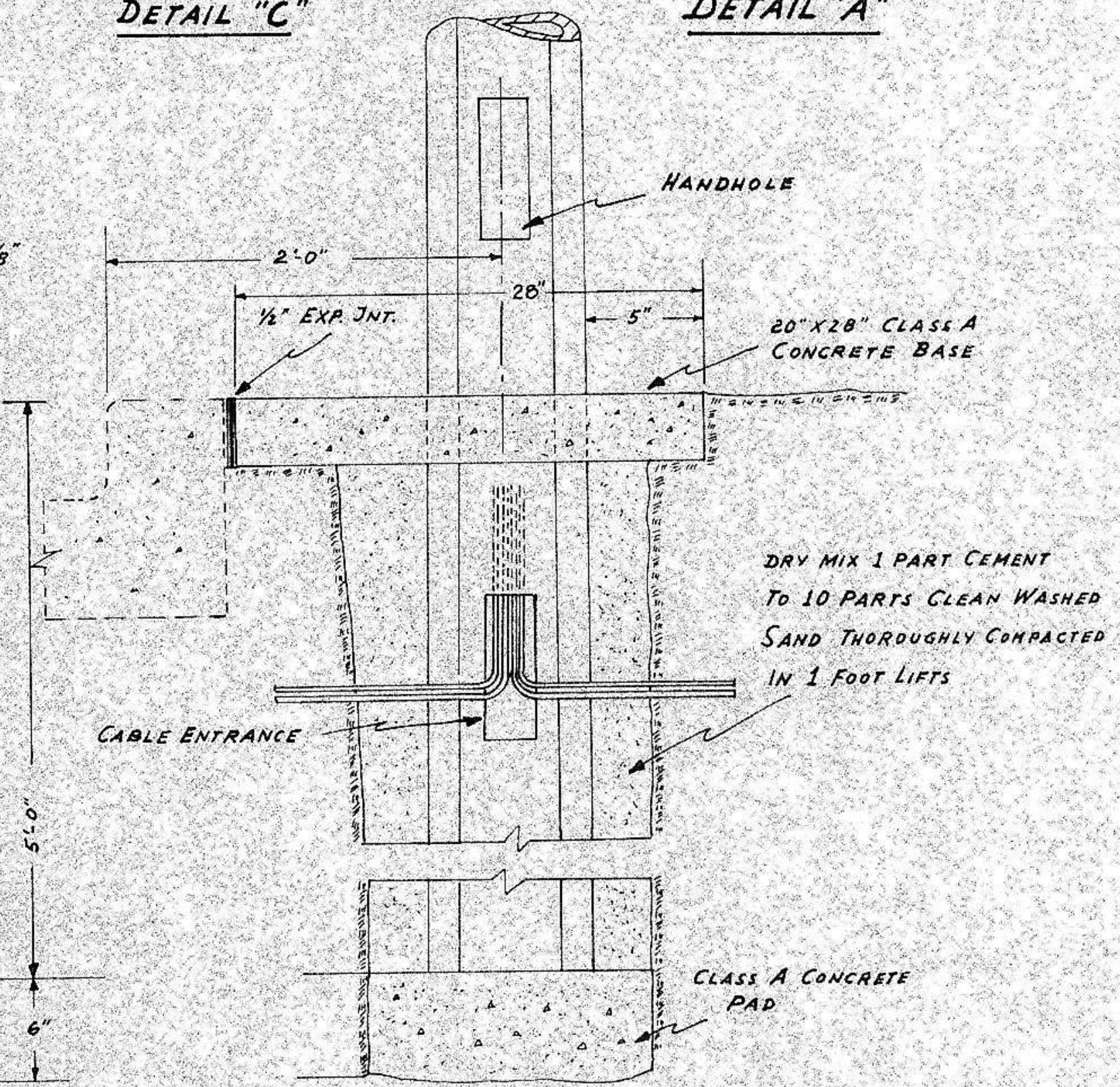
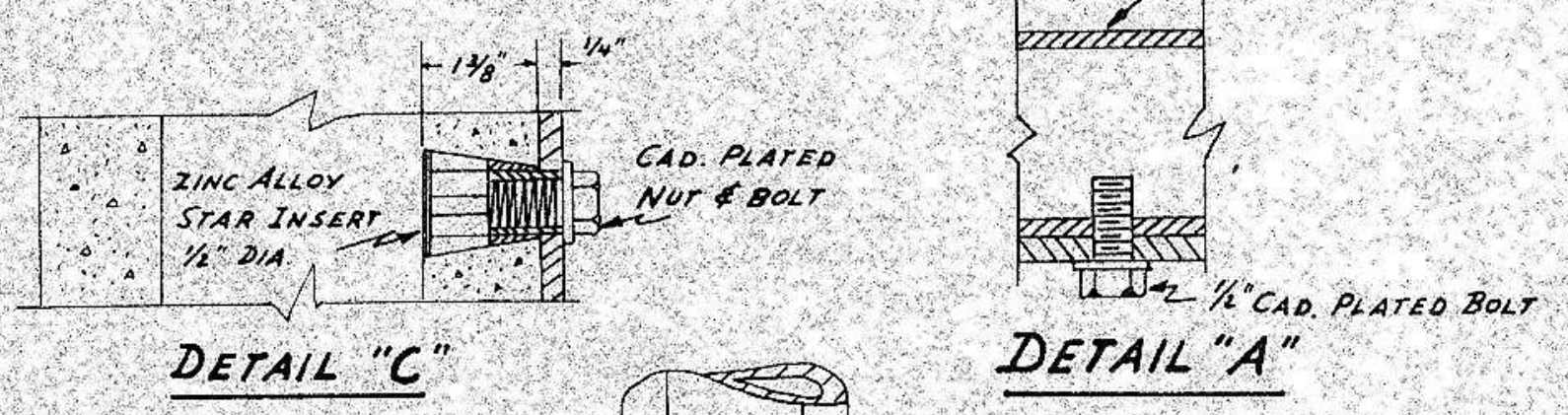
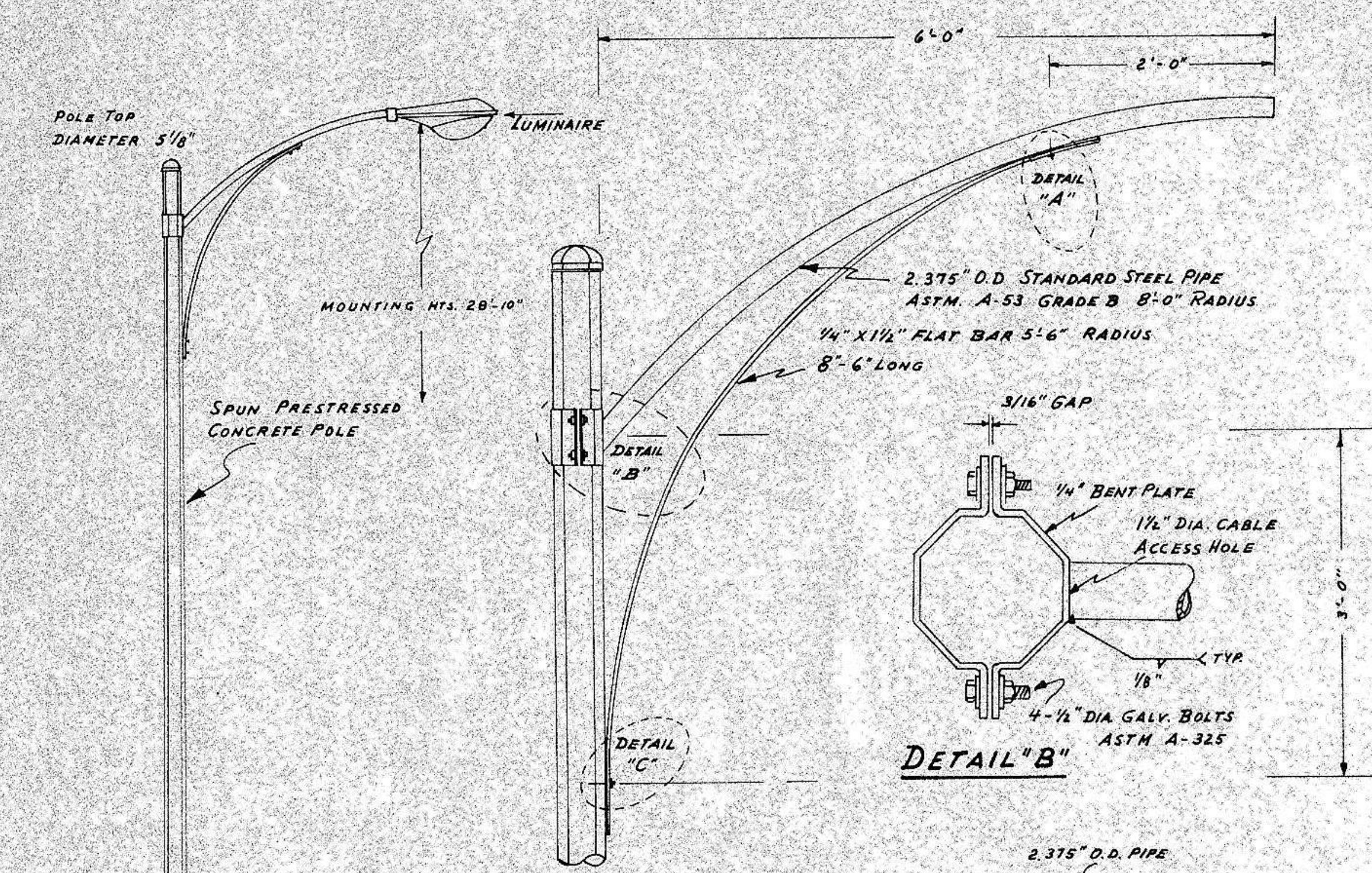


NOTE: TEMPLATE FOR CONCRETE GUTTER SECTION MAY VARY AS DIRECTED BY THE ENGINEER. PROVIDE TEMPLATE TO CONSTRUCT CONTRACTION JOINT 1/8" WIDE AND 3" DEEP AS SHOWN ON CURB AND GUTTER DETAILS.

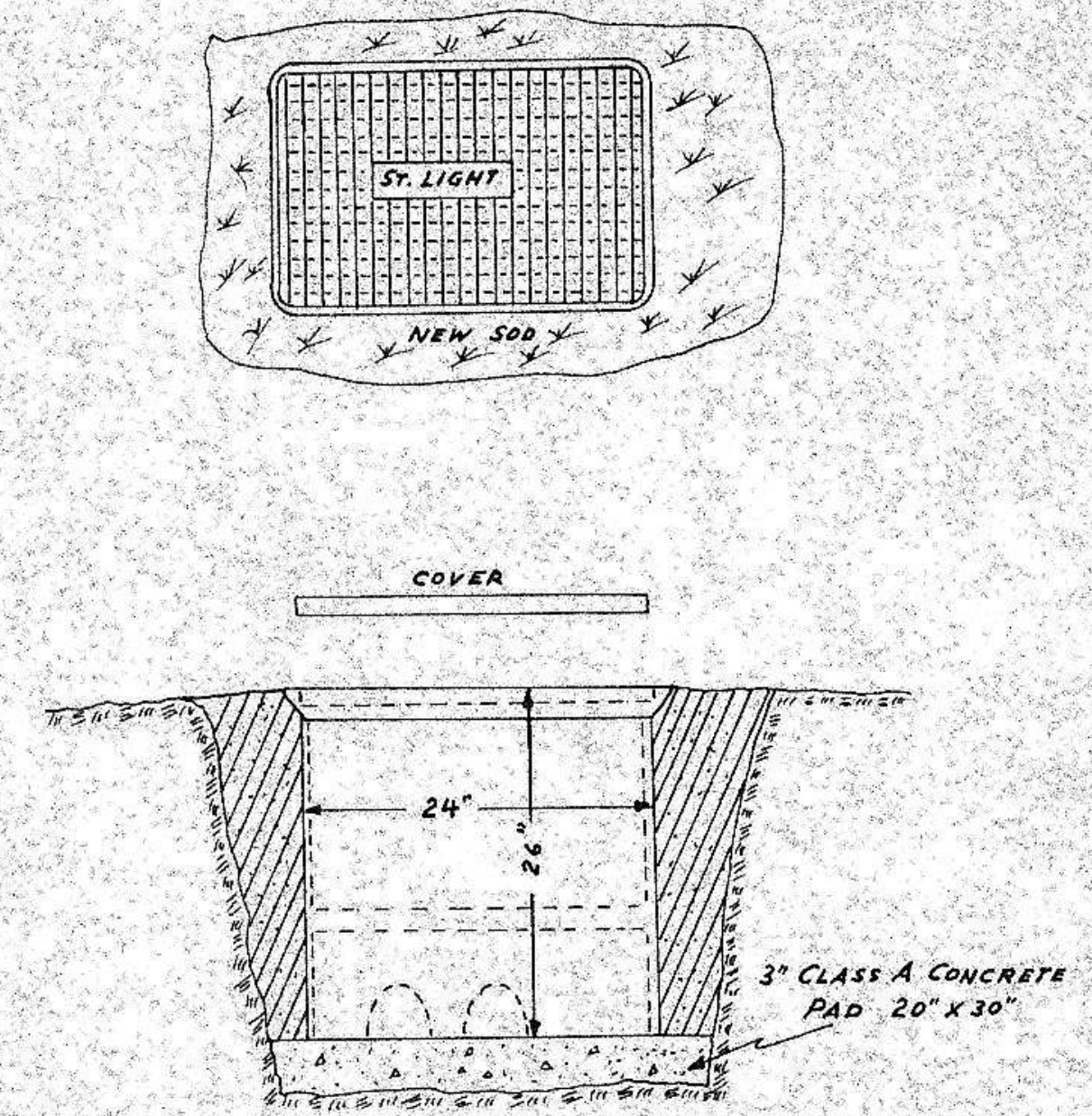


TOMAN ENGINEERING COMPANY
CIVIL & ENVIRONMENTAL CONSULTANTS
P.O. BOX 708
MANDAN, NORTH DAKOTA 58554

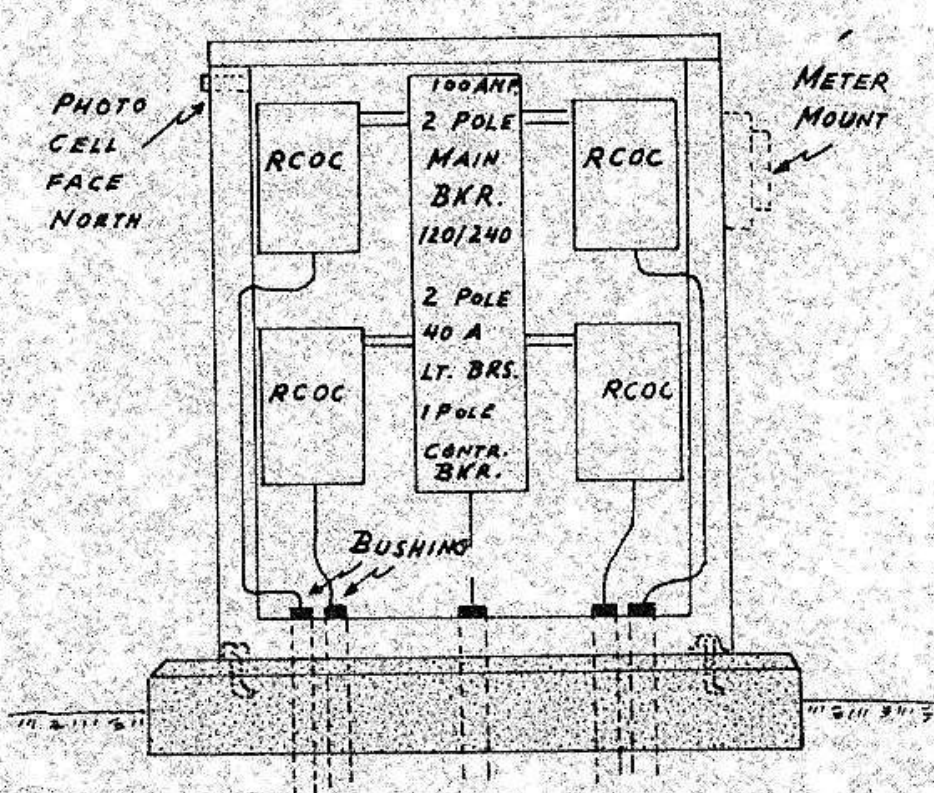
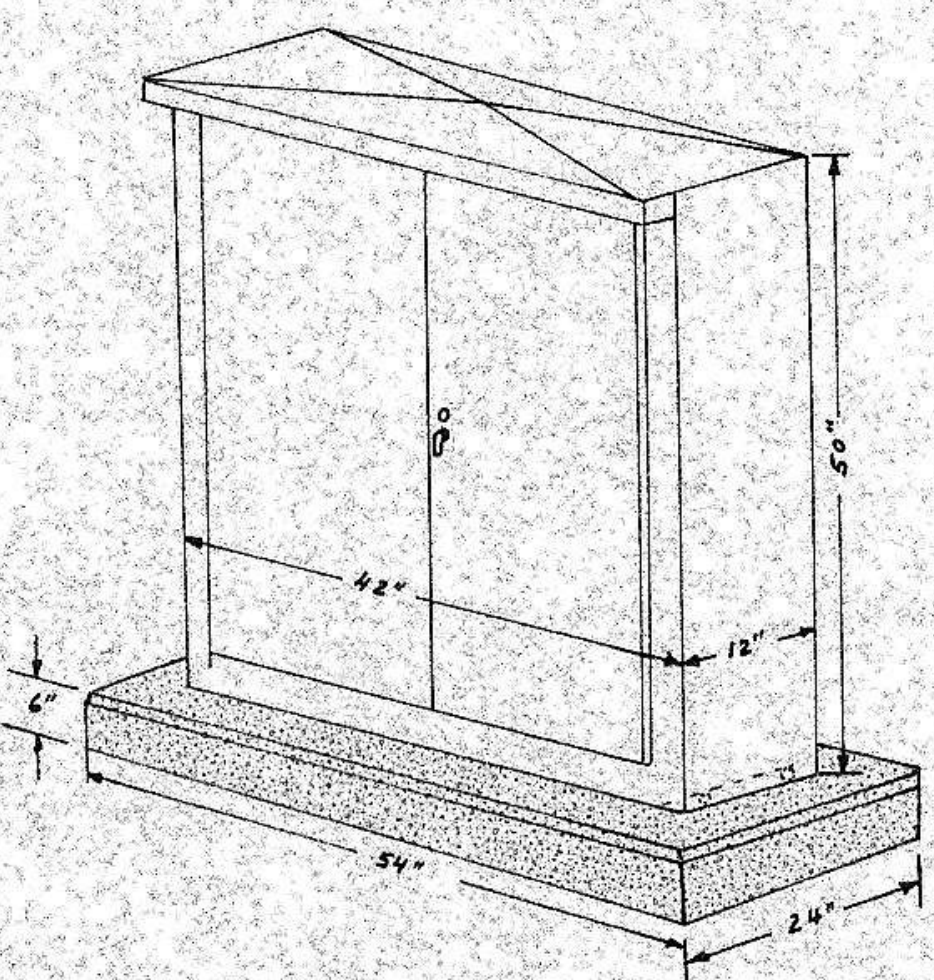
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DESIGNED BY	
APPROVED BY	
CHECKED BY	
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DESIGNED BY	
APPROVED BY	
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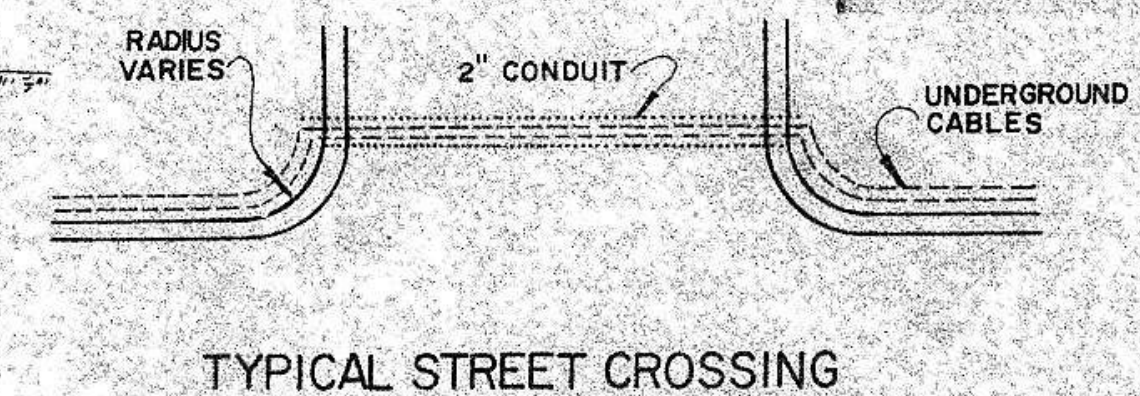
STANDARD AND BASE DETAIL



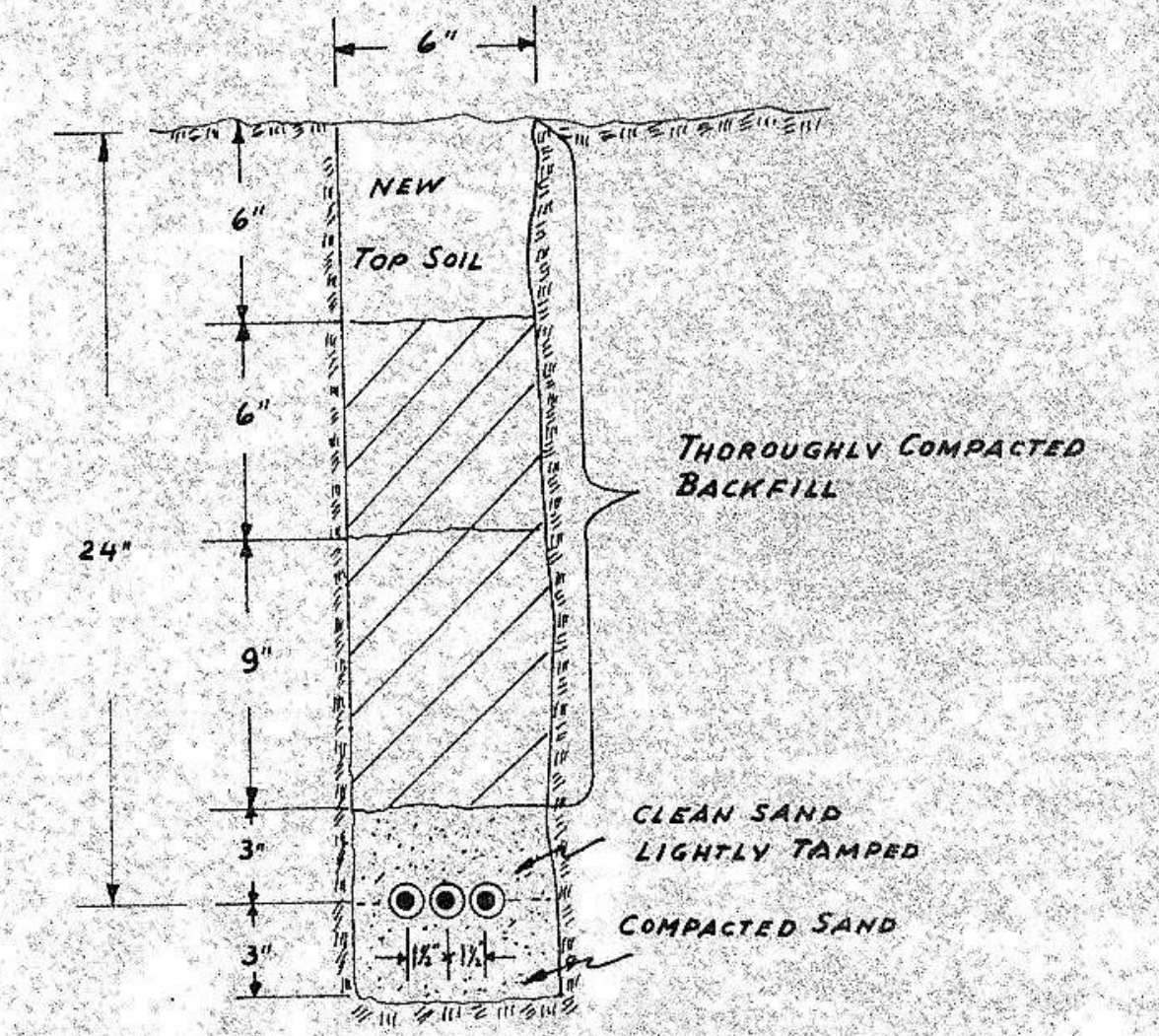
JUNCTION BOX DETAIL



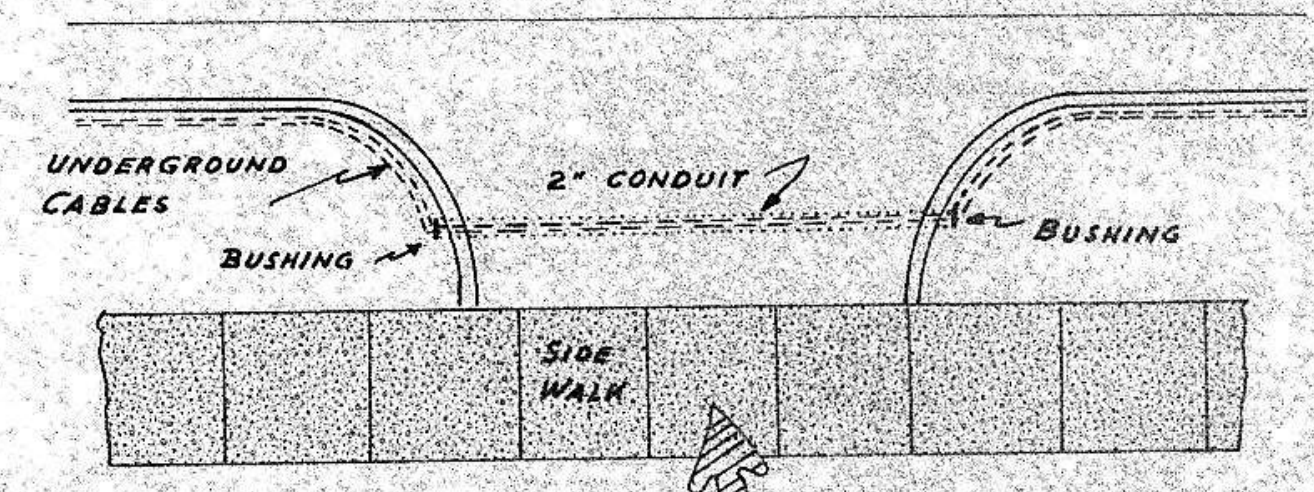
FEEDPOINT DETAIL



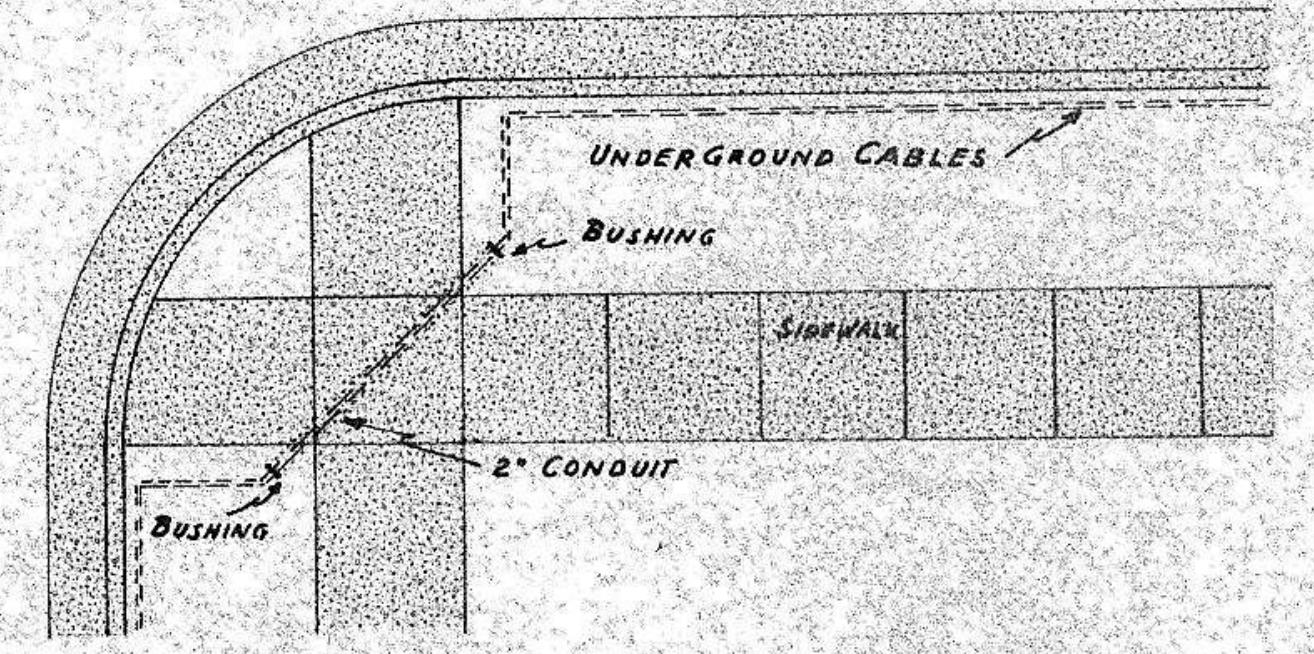
TYPICAL STREET CROSSING



TRENCH DETAIL



NOTE: CONDUIT SHALL BE SLOPED 3" FOR DRAINAGE. MINIMUM COVER OVER CONDUIT TO BE 18" PROVIDE 9" LOOP IN CABLES AT EACH END OF CONDUIT



SIDEWALK AND DRIVEWAY CROSSING

