City of
Maple Grove

CITY PROJECT 86-29
TIMBER BAY ESTATES
JUNEAU LANE
and
CITY PROJECT 85-27
TIMBER CREST FOREST
6TH ADDITION

CONSTRUCTION PLANS FOR UTILITY AND STREET IMPROVEMENTS

SHEET INDEX

1	TITLE SHEET
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12-18	TIMBER BAY ESTATES - STREET & STORM SEWER
19	C.P. 85-27 TIMBER CREST FOREST 6TH ADDITION-SANITARY SEWER
20-23	JUNEAU LANE-SANITARY SEWER & WATERMAIN
24-25	JUNEAU LANE - STREET & STORM SEWER
26-30	GLACIER LANE-CROSS SECTIONS
31-37	BASS LAKE ROAD AT JUNEAU LANE-CROSS SECTIONS
38-45	JUNEAU LANE-CROSS SECTIONS

PREPARED BY

bennett ringrose wolsfeld jarvis gardner inc.

THRESHER SQUARE 700 THIRD ST. S., MINNEAPOLIS, MN 55415

BENCH MARKS:

1 - SPIKE IN 4 TH POWER POLE ON BASS LK. RD, EAST OF SUNNY SLOPE = 949.68

2 - TOP NUT HYD. BASS LAKE RD AND JUNEAU = 950.48

CONTRACTOR: OPUS CORPORATION

AS BUILT
MARCH 1988 H.H.

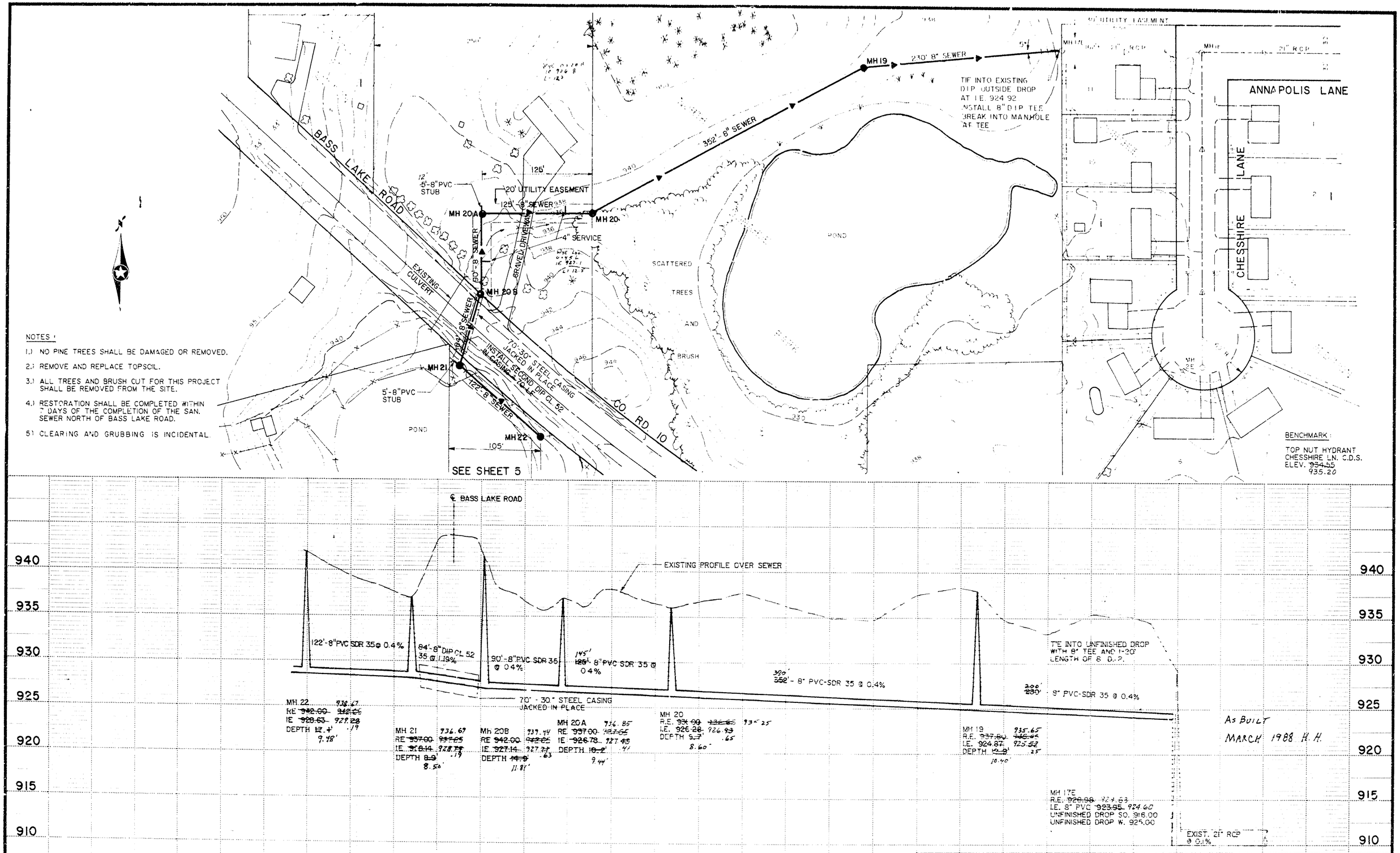
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE STATE OF MINNESOTA STATUTES SECTIONS 326.02 TO 326.16.

John C. Bartel DATE 3/19/87 MINN. REG. NO. 14960

1

ADDENDUM NO.1 REVISIONS 3/30/87
REVISION FOR CO. #1 4/21/87
Revised I.E. Top, OG Elev 5/11/87

45



NOTES:

1.) NO PINE TREES SHALL BE DAMAGED OR REMOVED.

2.) REMOVE AND REPLACE TOPSOIL.

3.) ALL TREES AND BRUSH CUT FOR THIS PROJECT SHALL BE REMOVED FROM THE SITE.

4.) RESTORATION SHALL BE COMPLETED WITHIN 7 DAYS OF THE COMPLETION OF THE SAN. SEWER NORTH OF BASS LAKE ROAD.

5.) CLEARING AND GRUBBING IS INCIDENTAL.

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the State of Minn. Statutes Sections 326.02 to 326.16

Date 3/9/87 Minn. Reg. No. 14960

BRW

ORIGINAL DATE 03-13-87

I.C.O. #1 4-21-87 REV. VERT & HORIZ. ALIGN MH. 17E TO 22

DESIGN BY H.H.

DRAWN BY J.A.S.

S.A.P. NO.

CITY OF MAPLE GROVE
PROJECT NO. 86-29

TIMBER BAY ESTATES

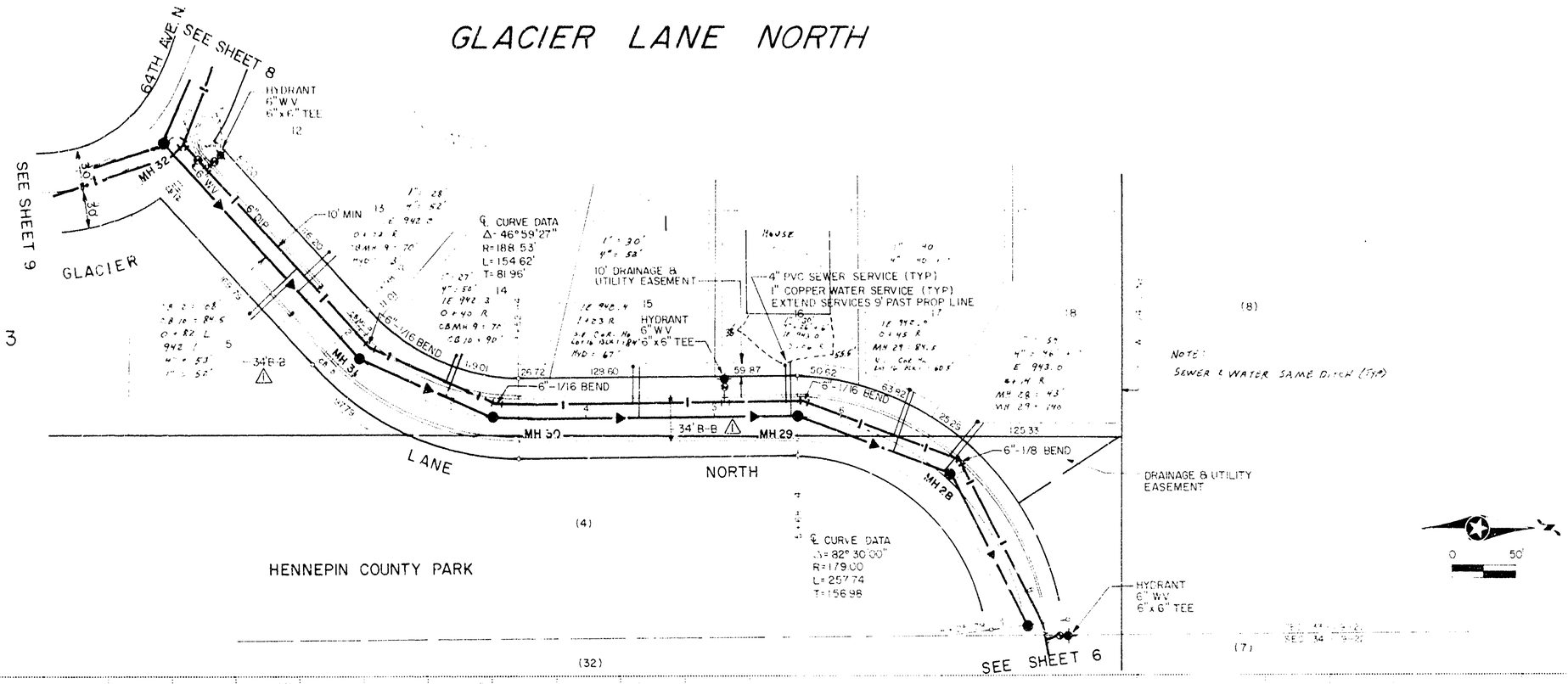
DONAHUE NORTH PARK

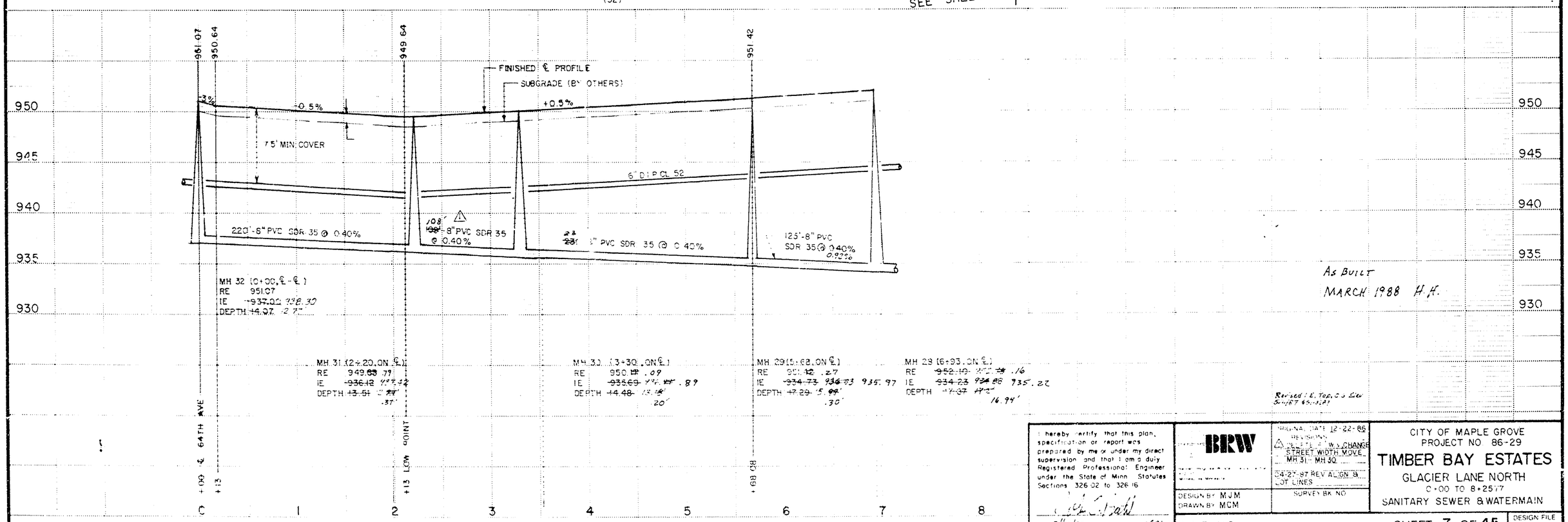
SANITARY SEWER & WATERMAIN

SHEET 4 OF 45

DESIGN FILE No. 14-8611

GLACIER LANE NORTH





As Built
MARCH 1988 H.H.

Revised: E. Top, C.O. Eng
8-4-87 H.H.

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the State of Minn. Statutes Sections 326.02 to 326.16

Date 3/19/87 Minn. Reg. No. 14962

BRW

DESIGN BY MJM
DRAWN BY MCM

ORIGINAL DATE 12-22-86
REVISIONS
1 DELETE 2 LINE CHANGE STREET WIDTH, MOVE MH 31 - MH 30
2 4-27-87 REV ALIGN & LOT LINES

SURVEY BK. NO.

CITY OF MAPLE GROVE
PROJECT NO 86-29

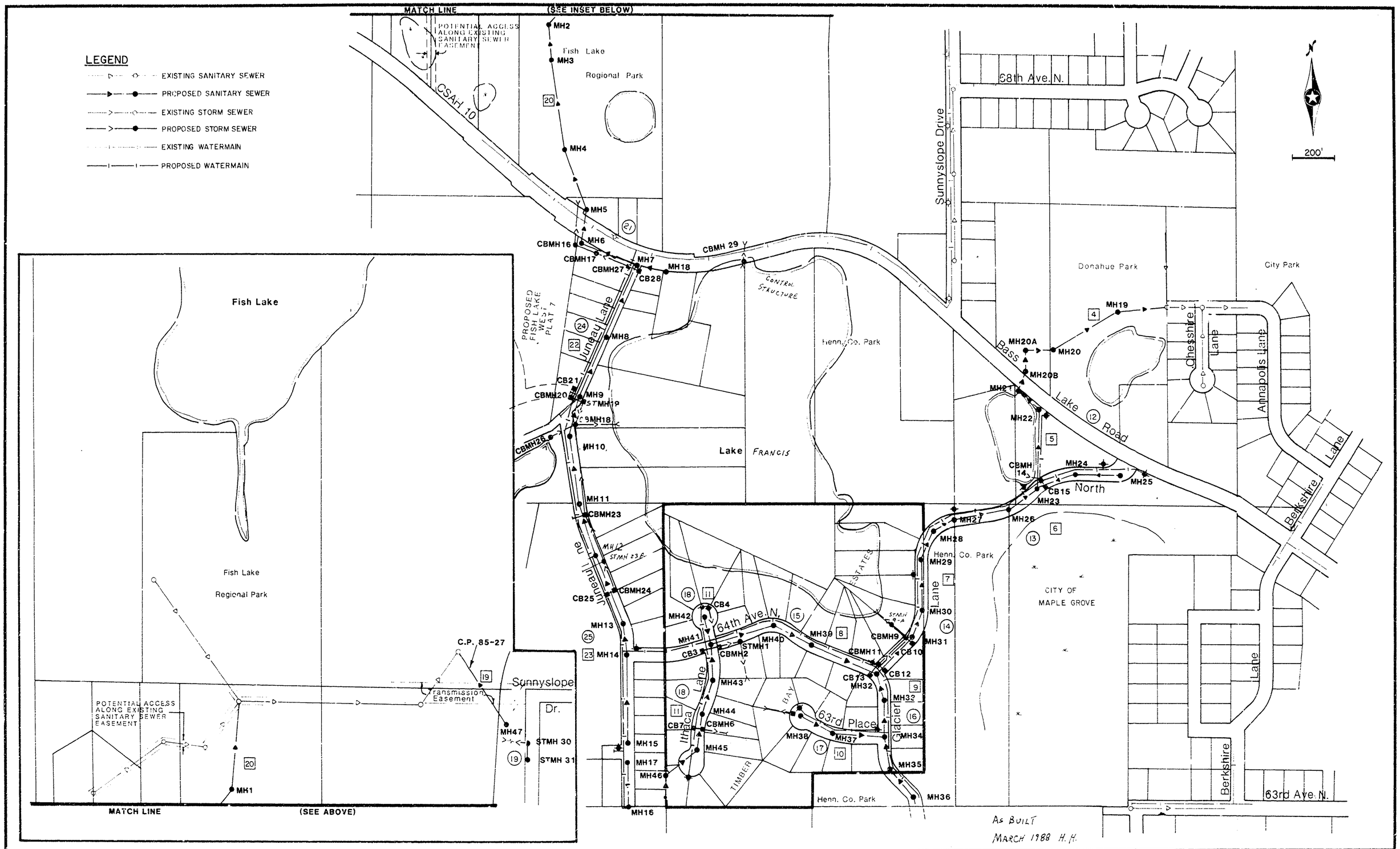
TIMBER BAY ESTATES

GLACIER LANE NORTH
C+00 TO 8+25.77
SANITARY SEWER & WATERMAIN

S.A.P. NO.

SHEET 7 OF 45

DESIGN FILE No 14-8611



As BUILT
MARCH 1988 H.H.

(8) INDICATES STREET AND STORM SEWER SHEET #

[15] INDICATES SANITARY SEWER AND WATERMAIN SHEET #

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Date 3/19/87 Minn. Reg. No. 14960

BRW

ORIGINAL DATE 3-9-87
REVISIONS
CBMH 29, STMH 5, STMH 30
04-27-87 REV ALIGNS & LOT LINES

DESIGN BY MJM
DRAWN BY

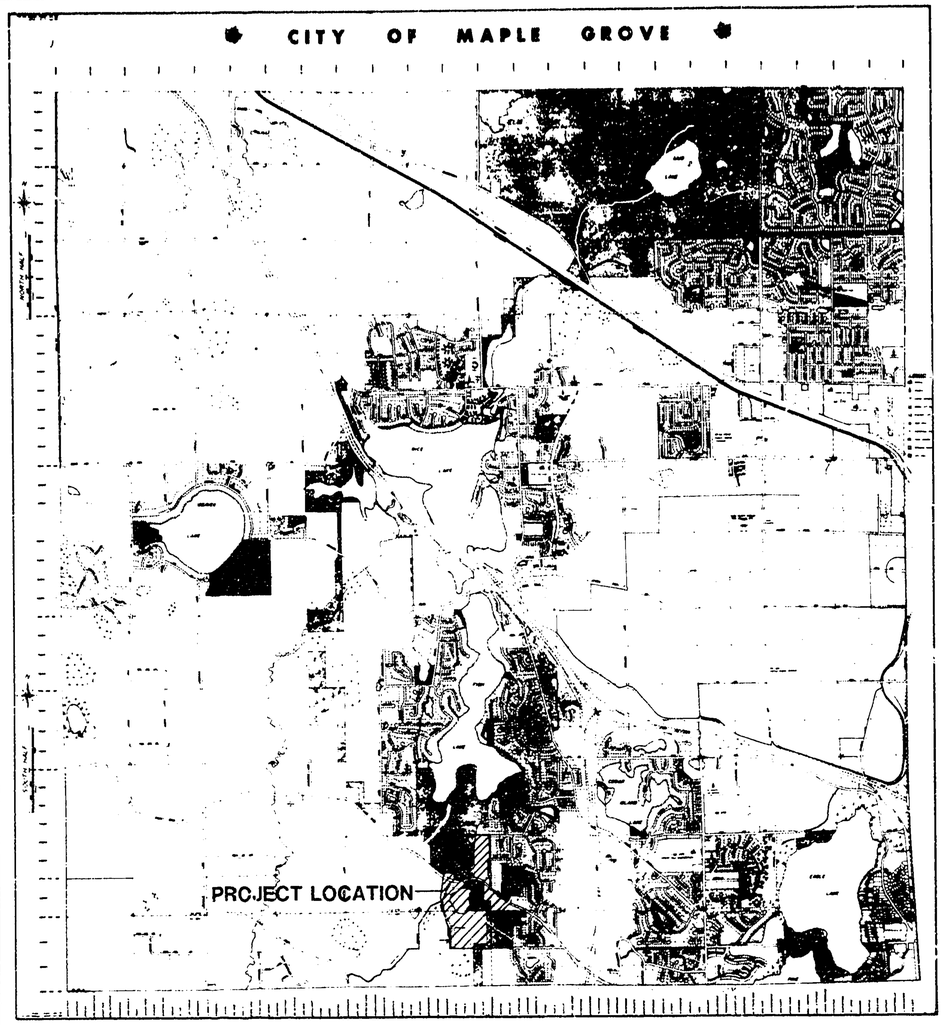
SURVEY BK NO

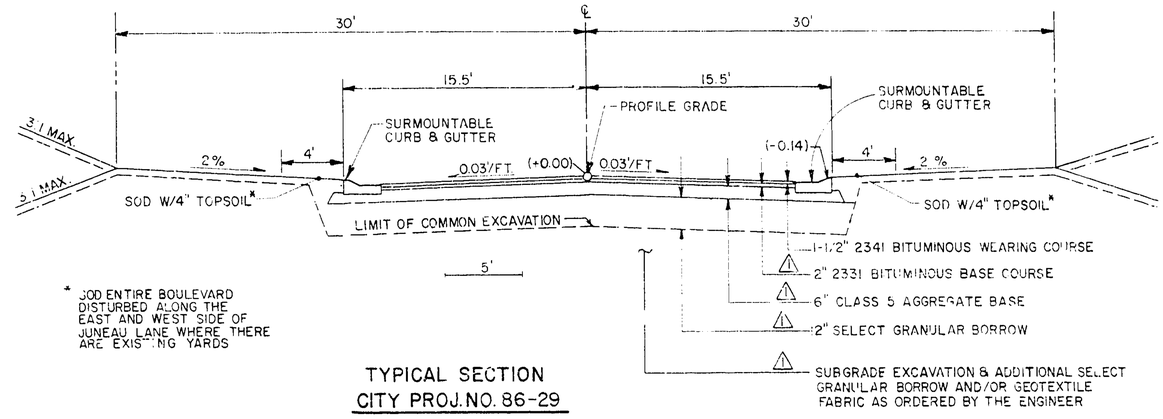
CITY OF MAPLE GROVE
PROJECT NO 86-29,85-27
TIMBER BAY ESTATES
JUNEAU LANE
TIMBER CREST FOREST
6TH ADDITION
INDEX SHEET

S.A.P. NO.

SHEET 2 OF 45

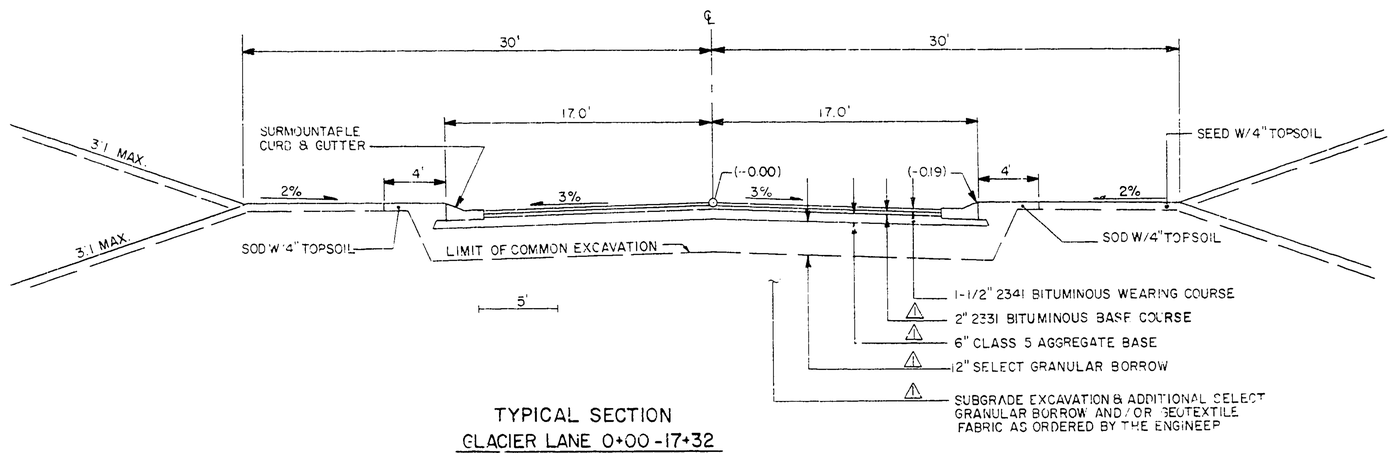
DESIGN FILE No. 14-8611



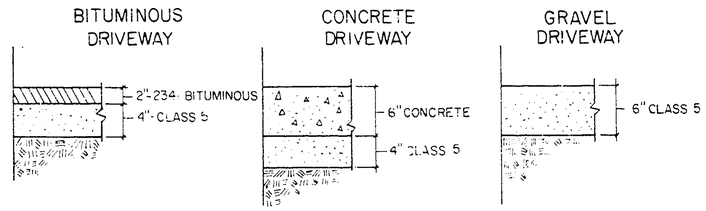


* SOD ENTIRE BOULEVARD DISTURBED ALONG THE EAST AND WEST SIDE OF JUNEAU LANE WHERE THERE ARE EXISTING YARDS

TYPICAL SECTION
CITY PROJ. NO. 86-29



TYPICAL SECTION
GLACIER LANE 0+00-17+32



TYPICAL DRIVEWAY
JUNEAU LANE

NOTE: REPLACE DRIVEWAY WITH THE SAME SURFACE AS EXISTING, FOR THE PORTION OF THE DRIVEWAY AFFECTED BY CONSTRUCTION.

CASTING ASSEMBLIES		
TYPE	NO. REQ'D.	NEENAH NO.
CATCH BASIN	21	R-3246-G
STORM M.H.	6	R-1642-B
SANITARY M.H.	47	R-1642-B
CATCH BASIN	4	R-4342

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Date 3/19/87 Minn. Reg. No. 14960

BRW
Bennett, Ringrose, Wolsfeld, Jarvis, Gardner
612-379-0790
Minneapolis, Minnesota

ORIGINAL DATE: 3-10-87
REVISIONS:
1 TYPICAL SECTION

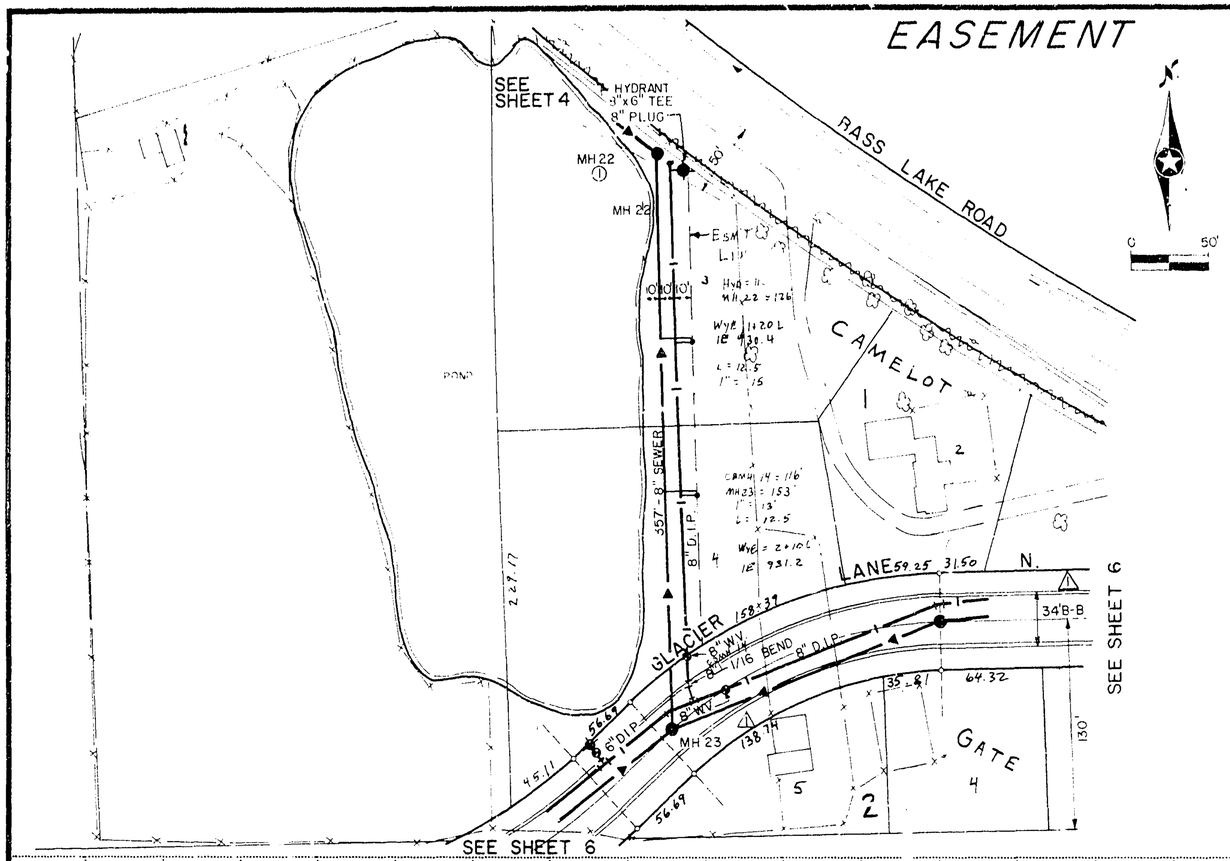
DESIGN BY: MJM
DRAWN BY: MCM
SURVEY BK. NO.

CITY OF MAPLE GROVE
PROJECT NO. 86-29, 85-27
TIMBER BAY ESTATES
JUNEAU LANE
TIMBER CREST FOREST
6TH ADDITION
TYPICAL SECTIONS

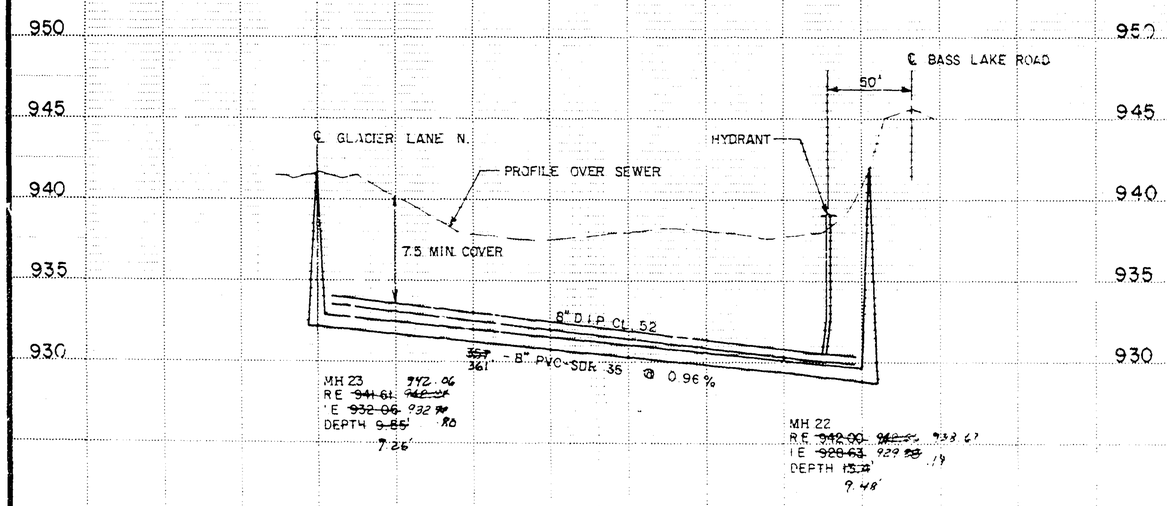
S.A.P. NO.

SHEET 3 OF 45

DESIGN FILE No. 14-8611



NOTE:
TYPICAL SERVICE
WATER & SEWER SAME DITCH
WATER 1" COPPER
SEWER 4" PVC



AS BUILT
MARCH 1988 H.H.

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Date 3/19/87 Minn. Reg. No. 14960

DESIGN BY H.H.
DRAWN BY J.A.S.

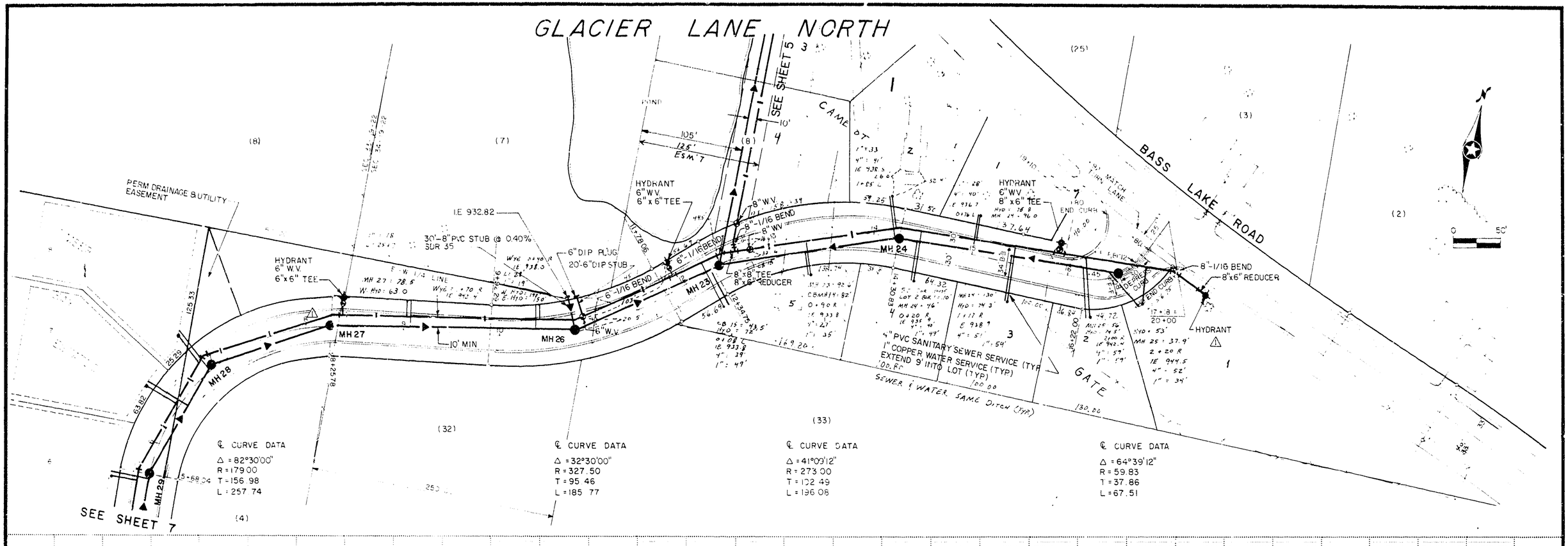
SURVEY BK. NO.

CITY OF MAPLE GROVE
PROJECT NO. 86-29
TIMBER BAY ESTATES
TRUNK SEWER THROUGH
PROPOSED PLAT
SANITARY SEWER & WATERMAIN

S.A.P. NO.

SHEET 5 OF 45

DESIGN FILE No. 14-8611



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Date 3/9/87 Minn. Reg. No. 14760

BRW

DESIGN BY H.H.
DRAWN BY J.A.S.

ORIGINAL DATE 03-13-87
REVISIONS
1 ADD HYDRANT, DELETE 6" P.V., CHANGE STREET WIDTH, MOVED MH 26
04-21-87 REV. ALIGN. & LOT LINE

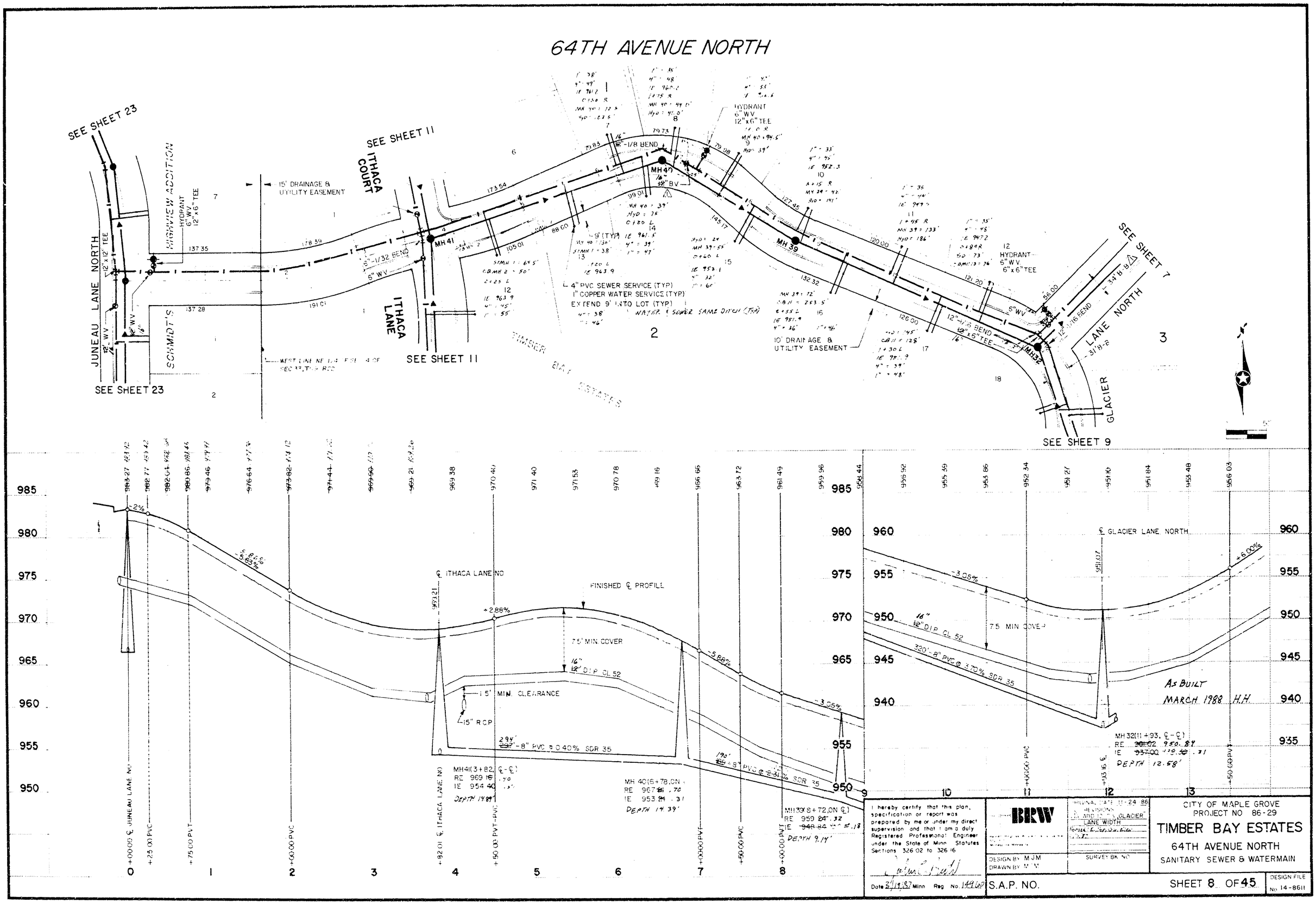
SURVEY BK NO

CITY OF MAPLE GROVE
PROJECT NO. 86-29
TIMBER BAY ESTATES
GLACIER LANE NORTH
5+68.08 TO 17+25
SANITARY SEWER & WATERMAIN

S.A.P. NO.

SHEET 6 OF 45

DESIGN FILE No. 14-8611



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Date 2/19/87 Minn Reg No. 14960

BRW

ORIGINAL DATE 11-24-86
REVISIONS
ADD 10' GLACIER LANE WIDTH

DESIGN BY M.J.M.
DRAWN BY M.J.M.

SURVEY BK NO

CITY OF MAPLE GROVE
PROJECT NO 86-29

TIMBER BAY ESTATES

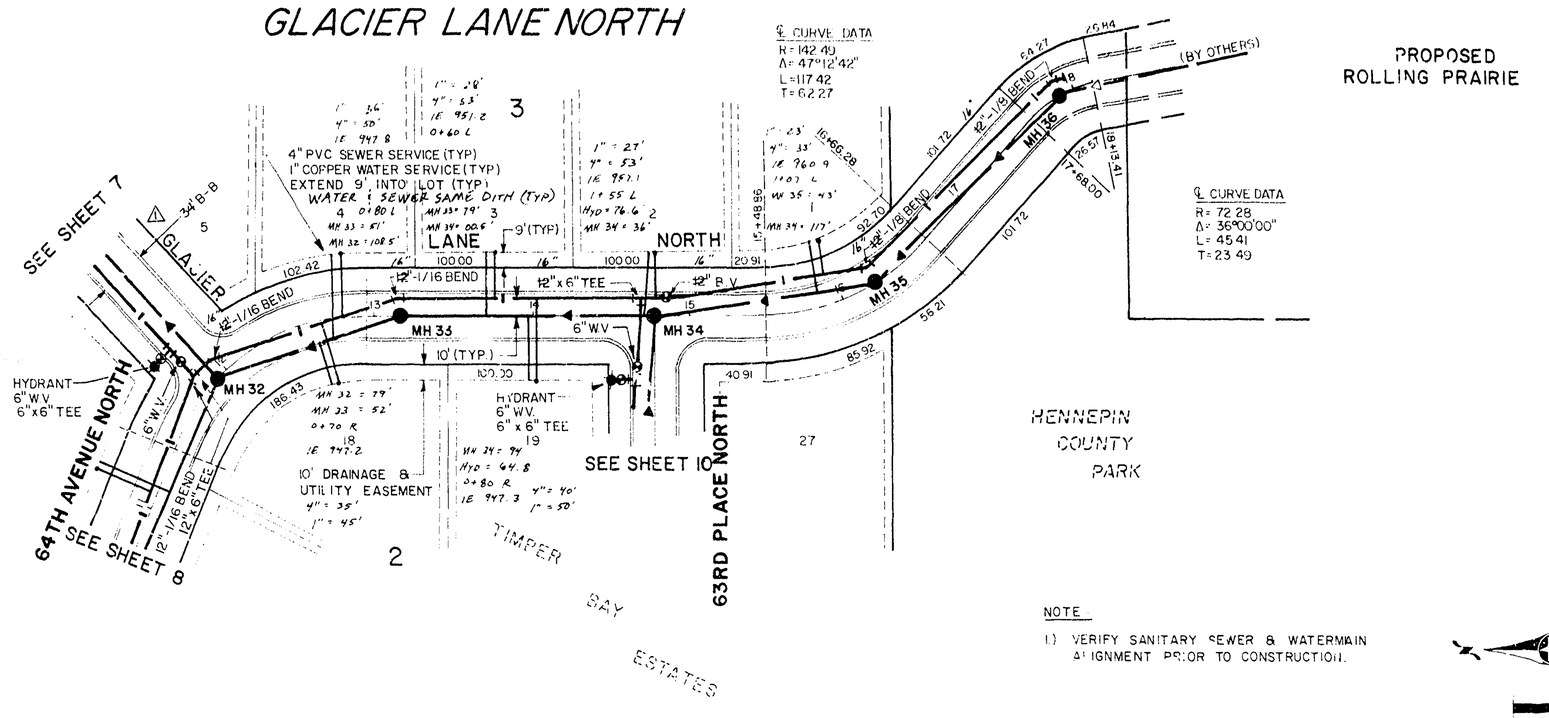
64TH AVENUE NORTH
SANITARY SEWER & WATERMAIN

S.A.P. NO.

SHEET 8 OF 45

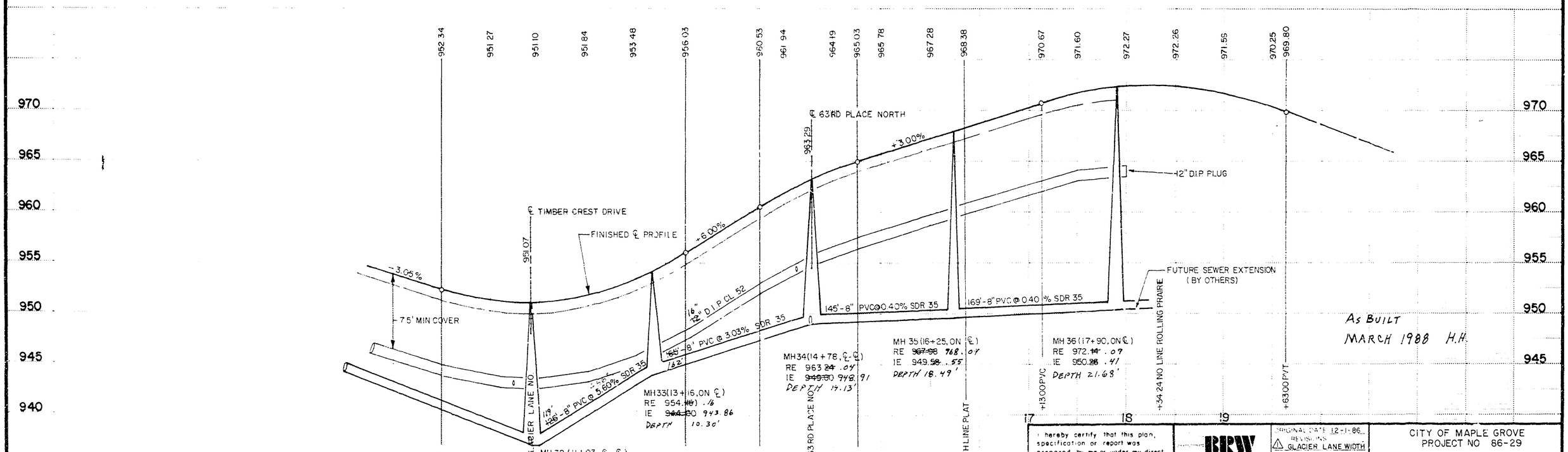
DESIGN FILE No 14-8611

GLACIER LANE NORTH



NOTE

1.) VERIFY SANITARY SEWER & WATERMAIN ALIGNMENT PRIOR TO CONSTRUCTION.



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Date 3/9/87 Minn. Reg. No. 14960

BRW

DESIGN BY MJM
DRAWN BY MCM

ORIGINAL DATE 12-1-86
REVISIONS
1 GLACIER LANE WIDTH
04-28-87 REV. ALIGN.
Revised ℄ Top. & Elev.
5/11/87
07-14-87 VERT. ALIGN.
SURVEY BK. NO.

CITY OF MAPLE GROVE
PROJECT NO 86-29

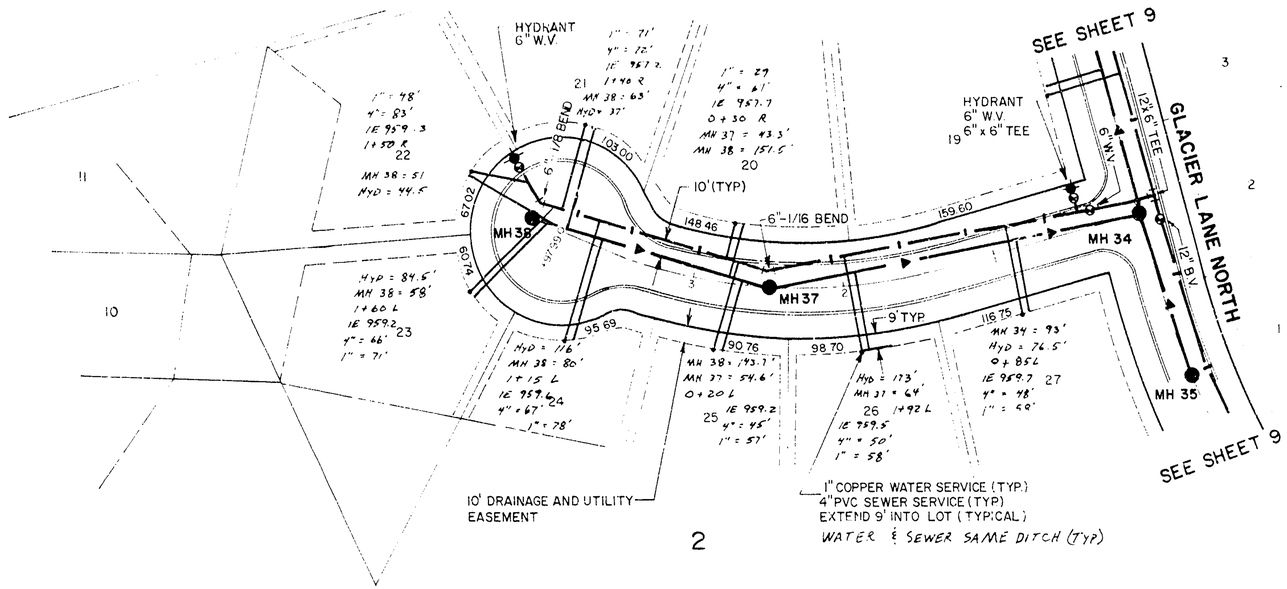
TIMBER BAY ESTATES
GLACIER LANE NORTH
SANITARY SEWER & WATERMAIN

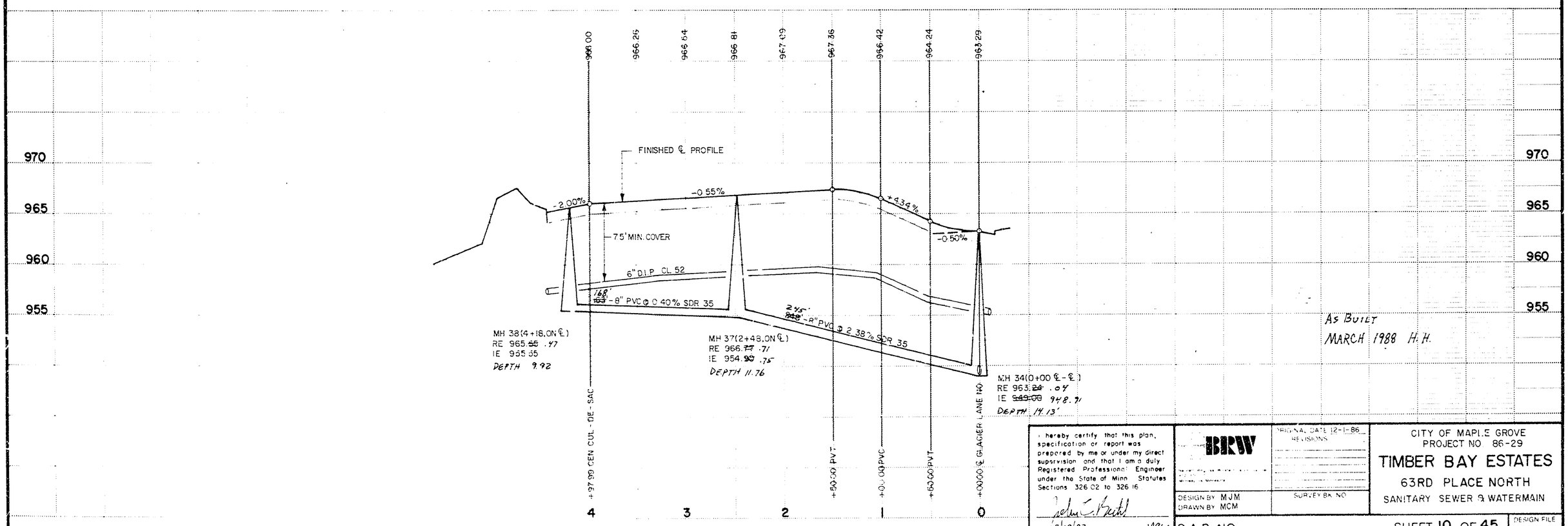
S.A.P. NO.

SHEET 9 OF 45

DESIGN FILE No. 14-8611

63RD PLACE NORTH





As Built
MARCH 1988 H.H.

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Date 3/19/87 Minn Reg. No 19960

BRW

ORIGINAL DATE 12-1-86
REVISIONS

DESIGN BY MJM
DRAWN BY MCM

SURVEY BK NO

CITY OF MAPLE GROVE
PROJECT NO 86-29

TIMBER BAY ESTATES

63RD PLACE NORTH

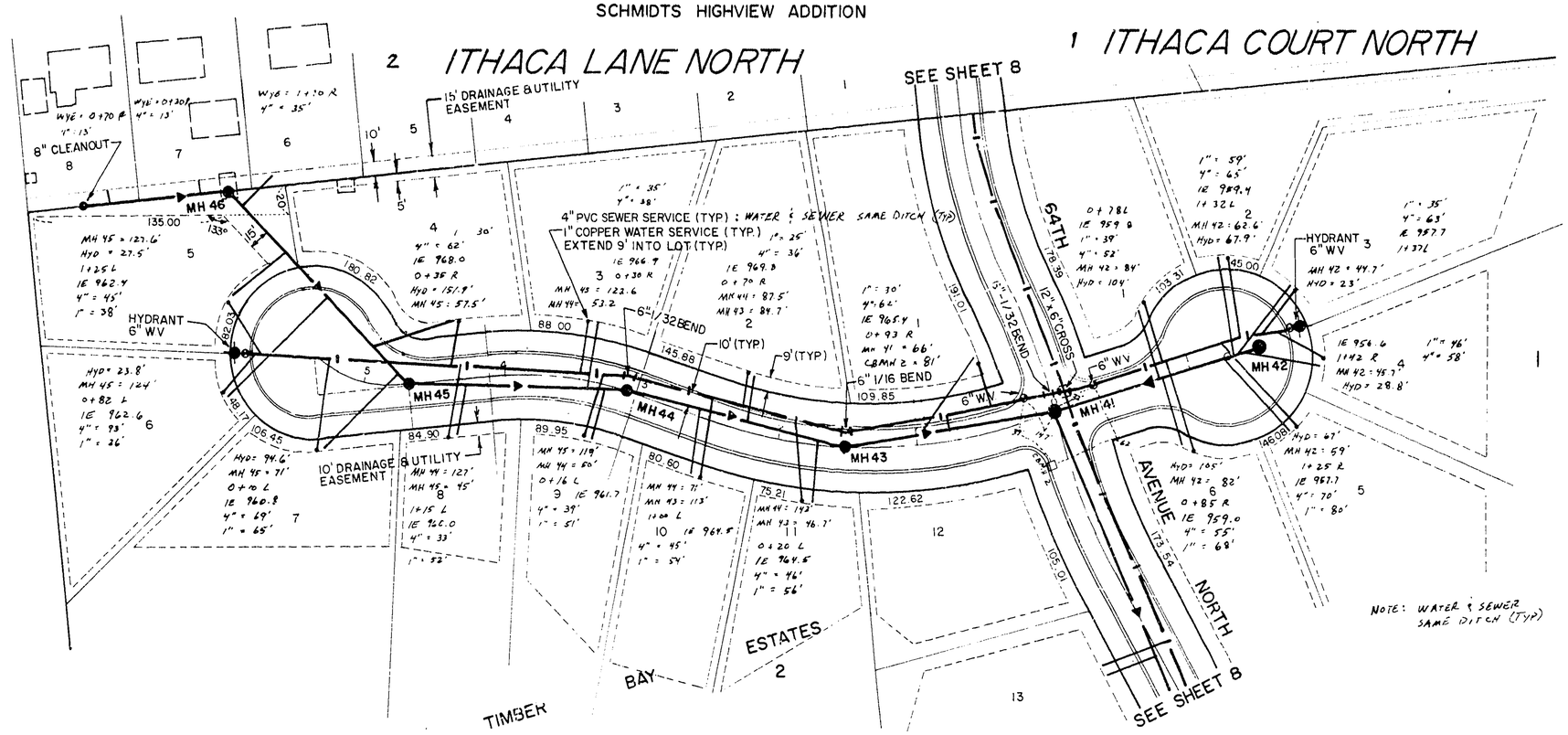
SANITARY SEWER & WATERMAIN

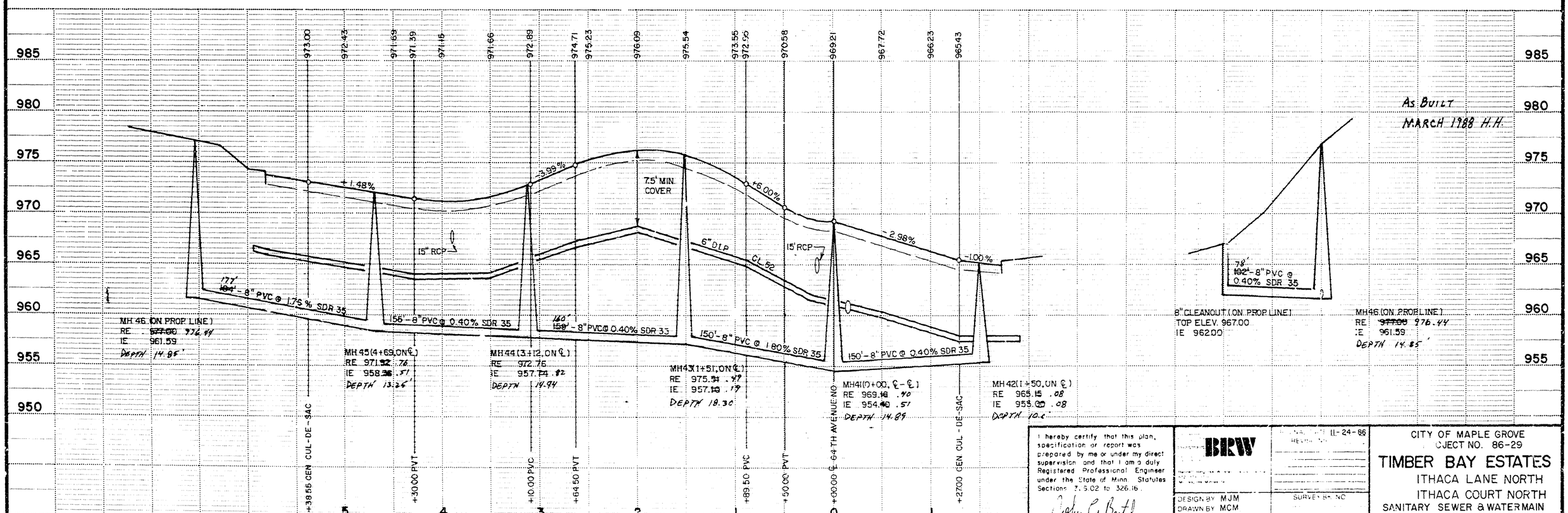
S.A.P. NO.

SHEET 10 OF 45

DESIGN FILE No 14-8611

SCHMIDTS HIGHVIEW ADDITION





As BUILT
MARCH 1988 H.H.

8" CLEANOUT (ON PROP. LINE)
TOP ELEV. 967.00
IE 962.00

MH 46 (ON PROP. LINE)
RE 977.00 976.44
IE 961.59
DEPTH 14.85'

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John C. Bertel

Date 3/19/87 Minn. Reg. No. 19160

BRW

11-24-86

DESIGN BY MJM
DRAWN BY MCM
SURVEY BK. NO.

CITY OF MAPLE GROVE
PROJECT NO. 86-29

TIMBER BAY ESTATES

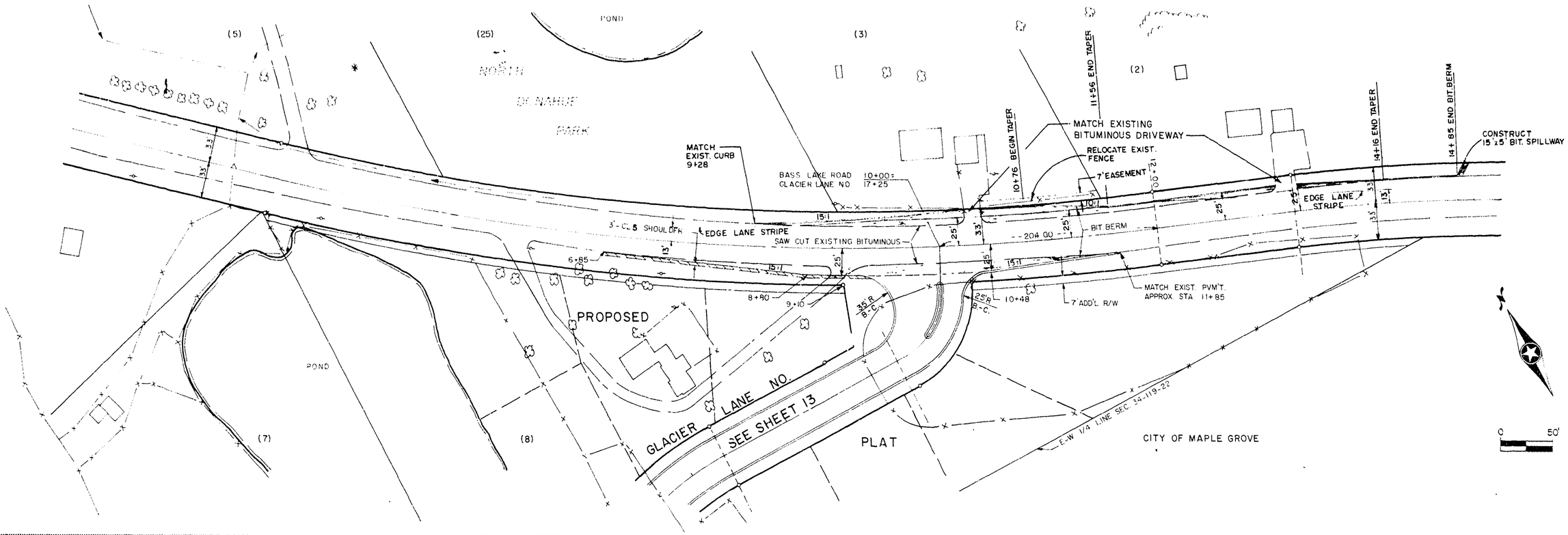
ITHACA LANE NORTH
ITHACA COURT NORTH
SANITARY SEWER & WATERMAIN

S.A.P. NO.

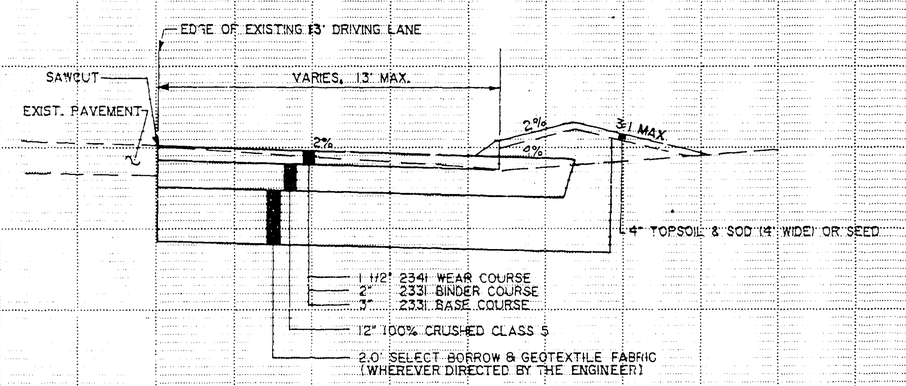
SHEET 11 OF 45

DESIGN FILE No. 14-5611

BASS LAKE ROAD (CO. ROAD 10)



BASS LAKE ROAD (CO. RD. 10) WIDENING



As Built
March 1988 H.H.

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John C. Barth

Date 3/19/87 Minn. Reg. No. 18900

BRW

ORIGINAL DATE 3-13-87
REVISIONS
4-28-87 RADIUS, BIT. BERM, WIDENING DET.
9-9-87 WIDENING FOR DRIVEWAYS
9-18-87 N. SIDE BIT. BERM

DESIGN BY H.H.
DRAWN BY J.A.S.
SURVEY BK. NO

CITY OF MAPLE GROVE
PROJECT NO. 86-29

TIMBER BAY ESTATES

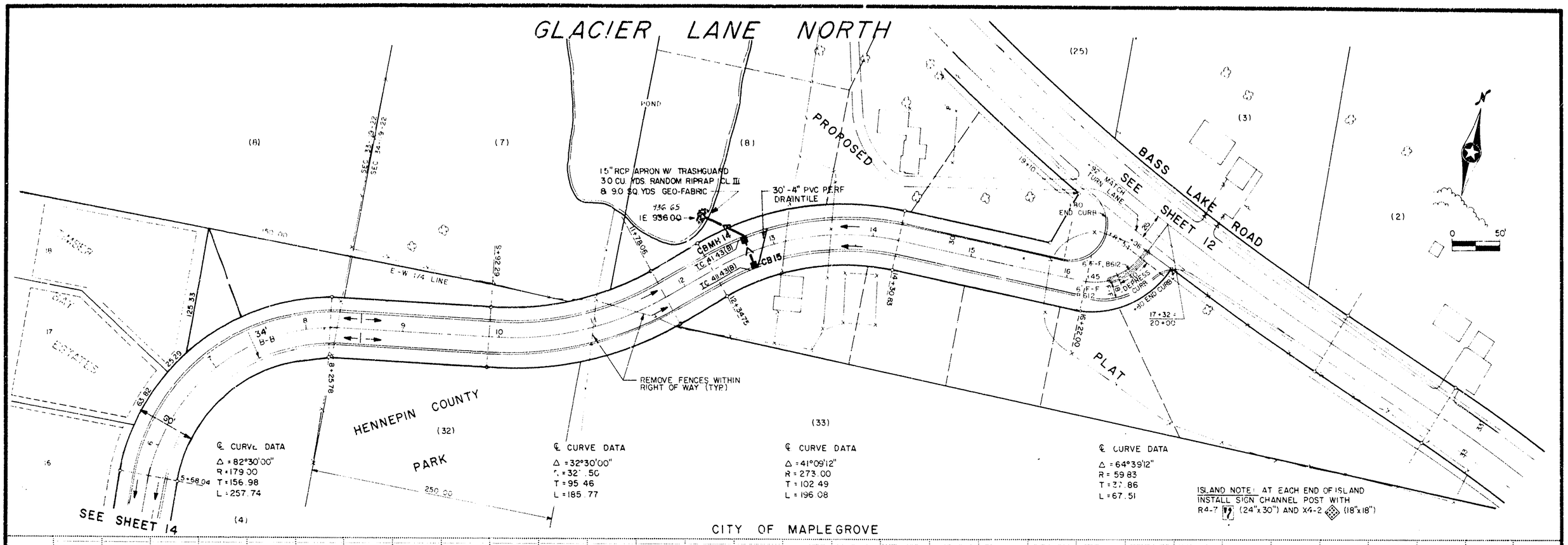
BASS LAKE ROAD (CO. RD. 10)
GLACIER LANE NORTH
TURN AND BY PASS LANES

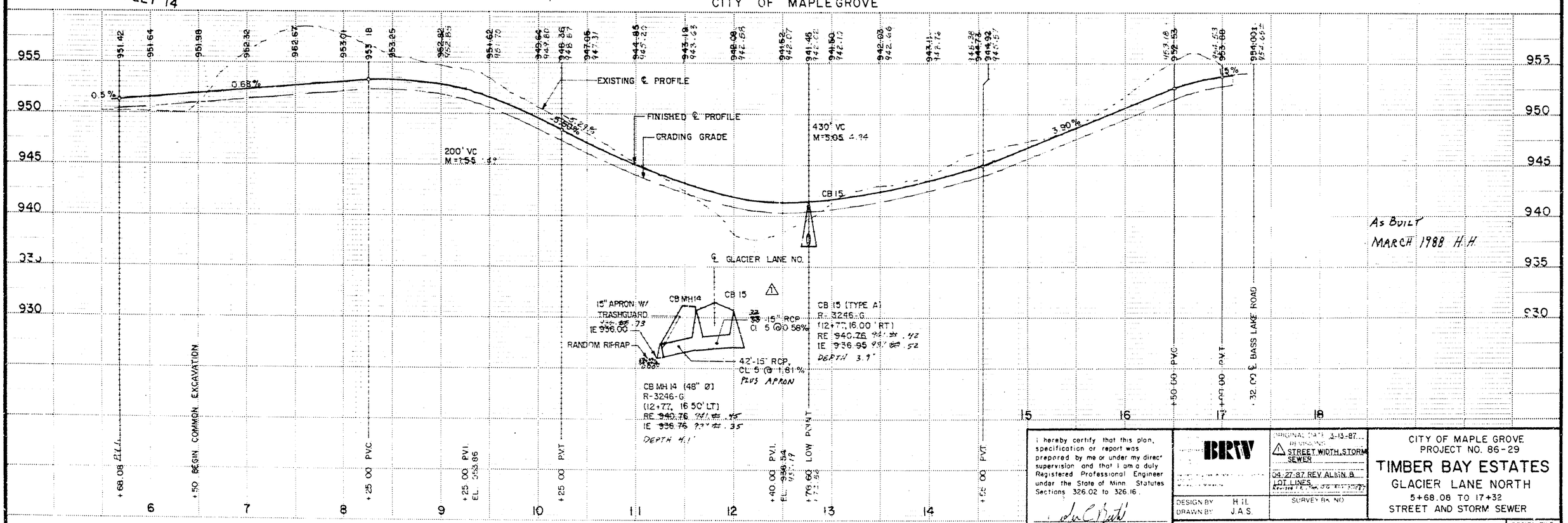
S.A.P. NO.

SHEET 12 OF 45

DESIGN FILE No. 14-8611

GLACIER LANE NORTH





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Date 12/19/87 Minn. Reg. No. 19960

BRW

ORIGINAL DATE 3-13-87
REVISIONS
1 STREET WIDTH, STORM SEWER
04-27-87 REV. ALIGN. & LOT LINES

DESIGN BY H.H.
DRAWN BY J.A.S.
SURVEY BK. NO.

S.A.P. NO.

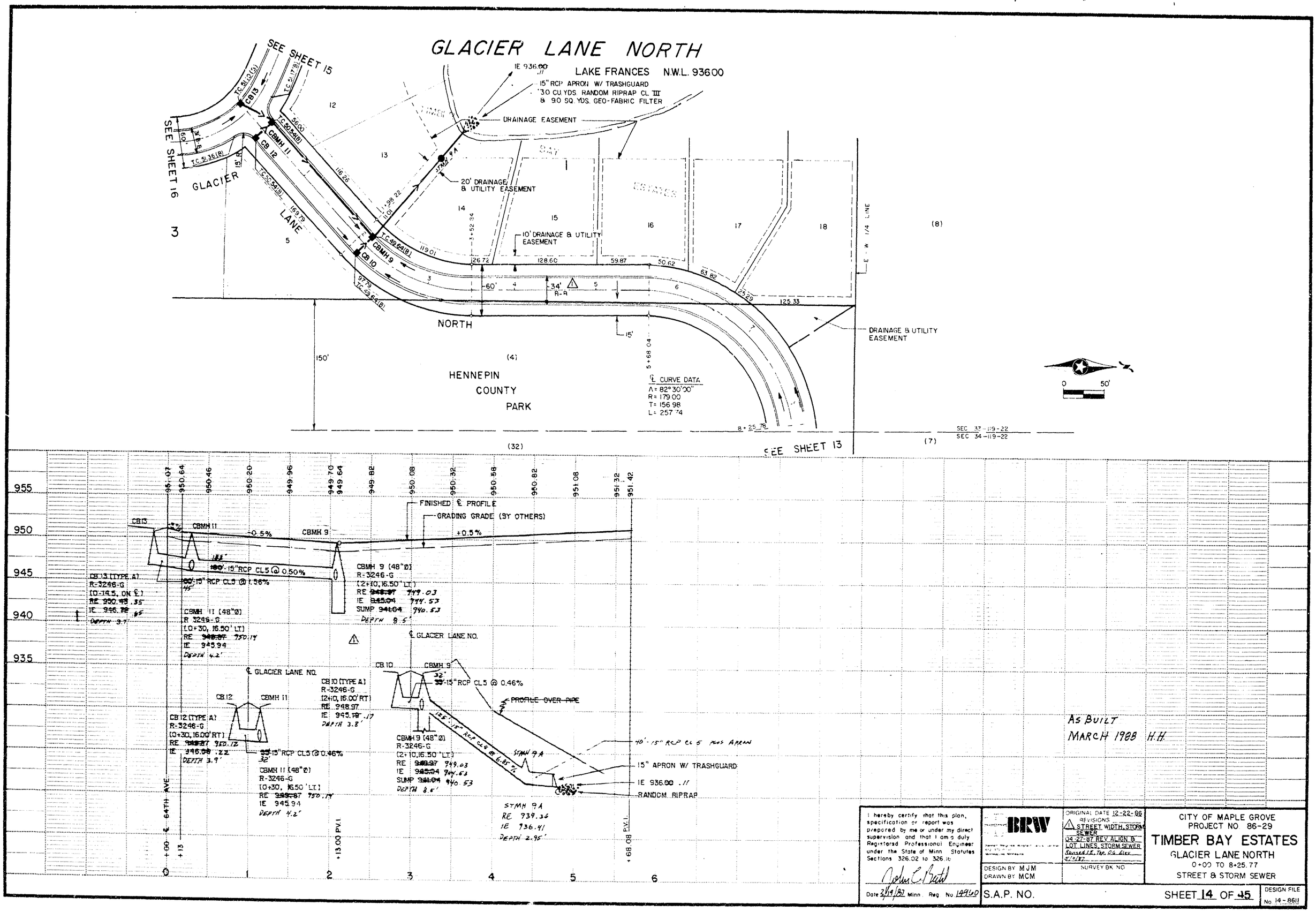
CITY OF MAPLE GROVE
PROJECT NO. 86-29

TIMBER BAY ESTATES

GLACIER LANE NORTH
5+68.08 TO 17+32
STREET AND STORM SEWER

SHEET 13 OF 45

DESIGN FILE No. 14-861



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John C. Bethel

Date 3/19/87 Minn. Reg. No. 14960

BRW

DESIGN BY MJM
DRAWN BY MCM

ORIGINAL DATE 12-22-86
REVISIONS
1 STREET WIDTH, STORM SEWER
04-27-87 REV. ALIGN & LOT LINES, STORM SEWER
Revised I.E. Tap. O.G. Elev. 5/10/87

SURVEY BK. NO.

CITY OF MAPLE GROVE
PROJECT NO. 86-29

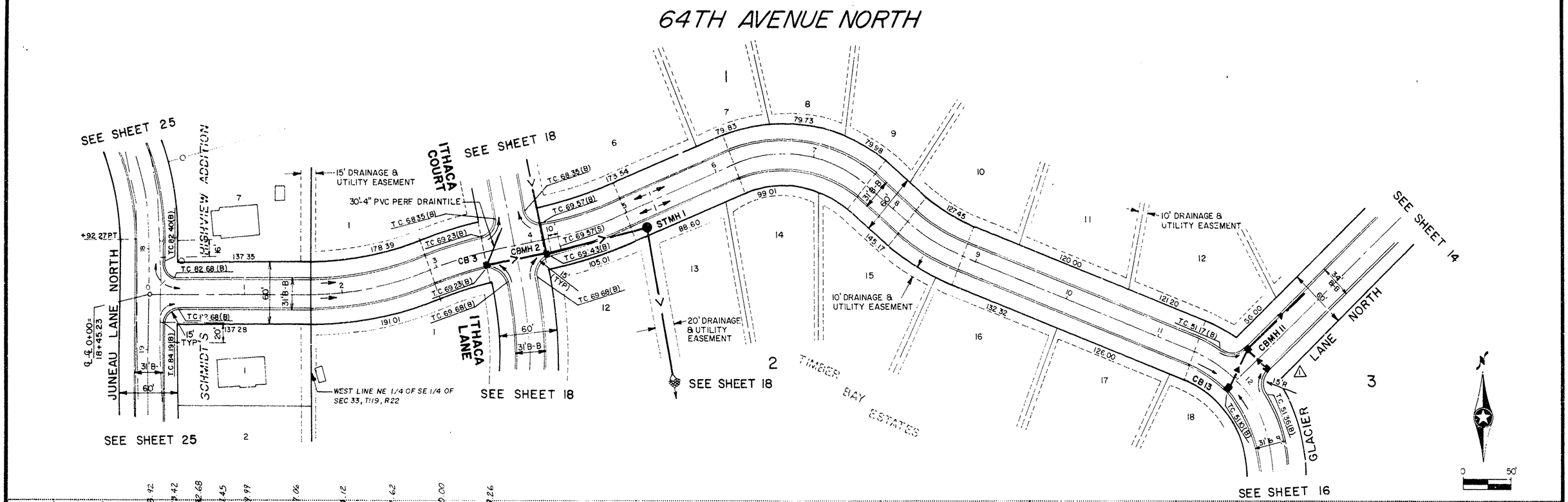
TIMBER BAY ESTATES

GLACIER LANE NORTH
0+00 TO 8+25.77
STREET & STORM SEWER

S.A.P. NO.

SHEET 14 OF 45

DESIGN FILE No. 14-8611



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Date 2/19/87 Minn. Reg. No. 19960

BRW

DESIGN BY MJM
DRAWN BY MCM

ORIGINAL DATE 11-24-86
REVISIONS
1 GLACIER LANE WIDTH

SURVEY BK NO

CITY OF MAPLE GROVE
PROJECT NO. 86-29

TIMBER BAY ESTATES

64TH AVENUE NORTH

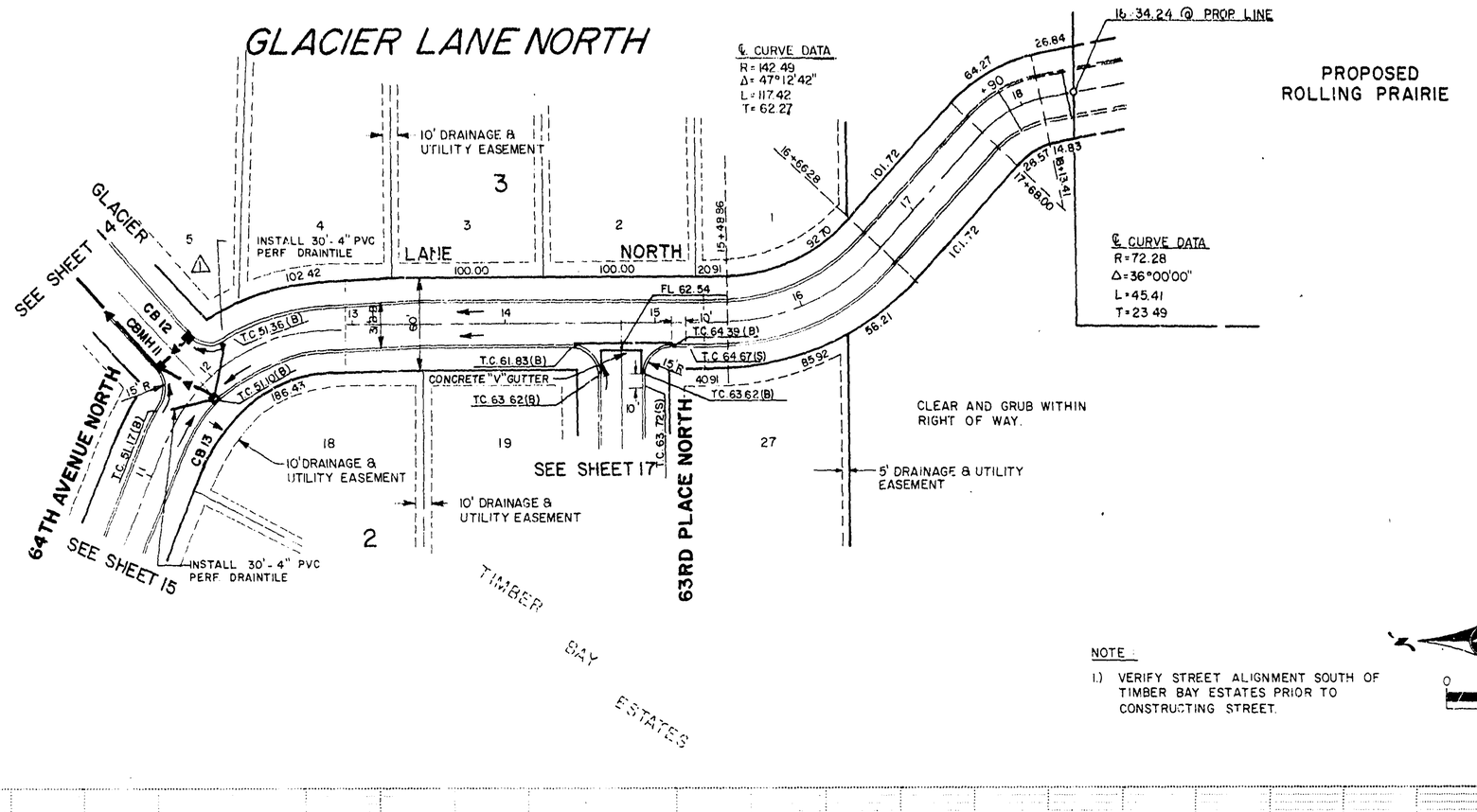
STREET & STORM SEWER

S.A.P. NO.

SHEET 15 OF 45

DESIGN FILE No. 14-8611

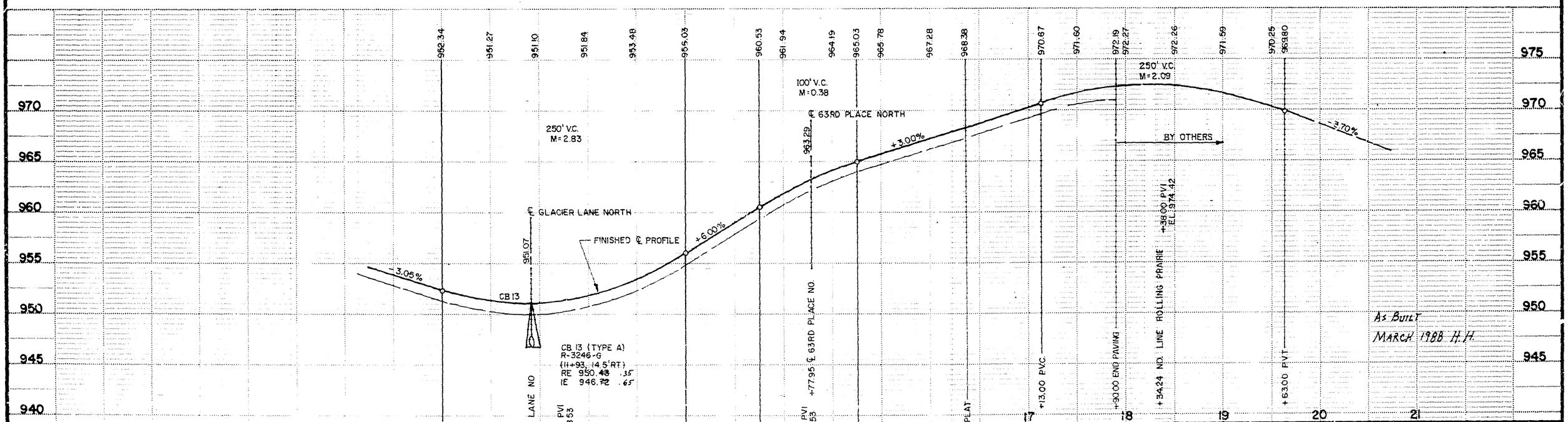
GLACIER LANE NORTH



NOTE:

1.) VERIFY STREET ALIGNMENT SOUTH OF TIMBER BAY ESTATES PRIOR TO CONSTRUCTING STREET.

0 50'



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Date 3/19/87 Minn. Reg. No. 19460

BRW

DESIGN BY MJM
DRAWN BY MCM

ORIGINAL DATE 12-1-86
REVISIONS
1 GLACIER LANE WIDTH
04-28-87 REV. ALIGN.
07-14-87 VERT. ALIGN. SOUTH END

SURVEY BK. NO.

CITY OF MAPLE GROVE
PROJECT NO. 86-29

TIMBER BAY ESTATES

GLACIER LANE NORTH

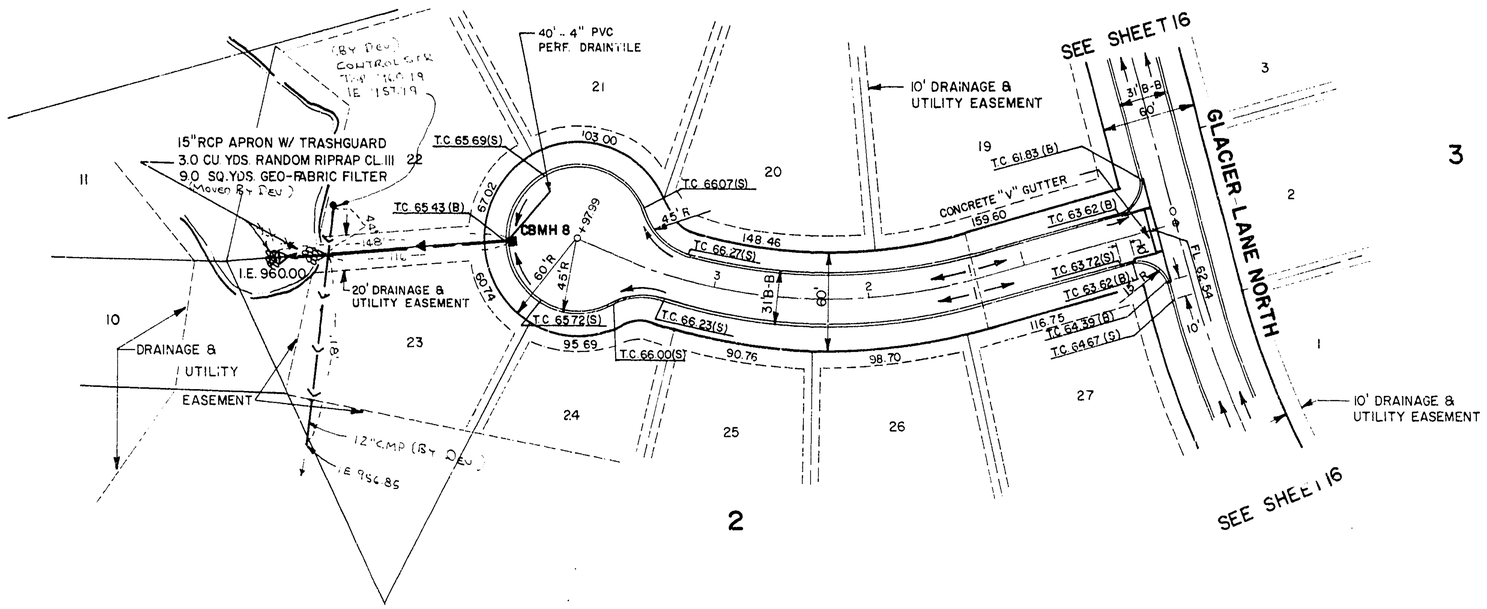
STREET & STORM SEWER

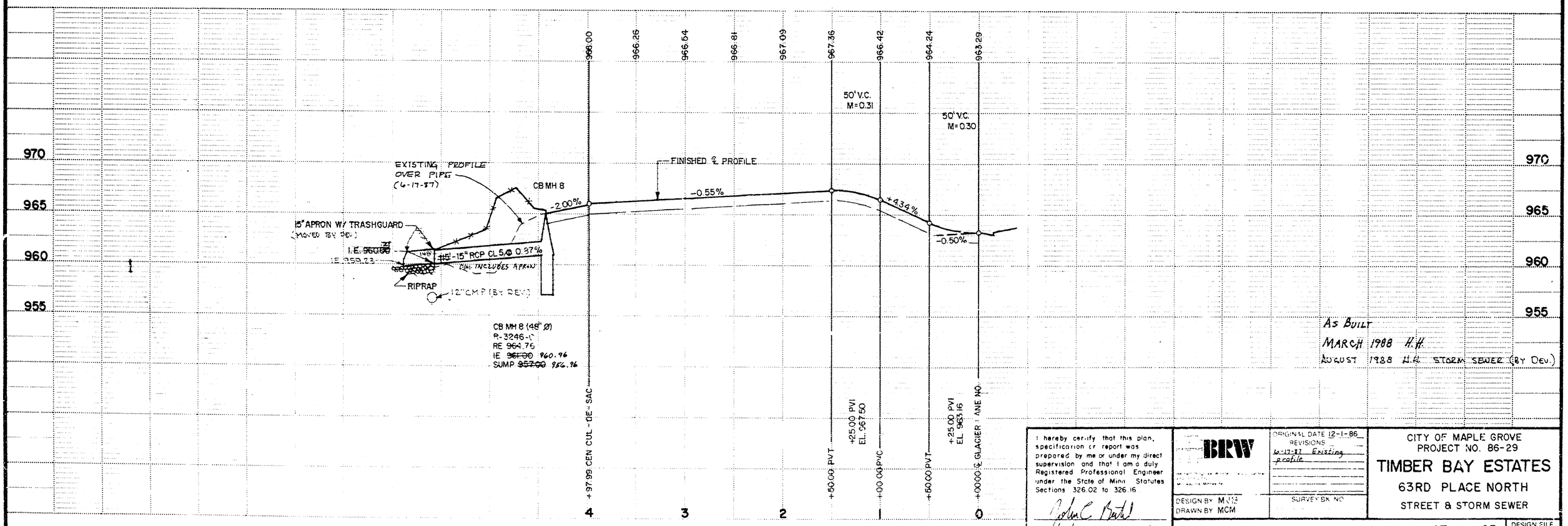
S.A.P. NO.

SHEET 16 OF 45

DESIGN FILE No. 14-8611

63RD PLACE NORTH





As Built
MARCH 1988 H.H.
AUGUST 1988 H.H. STORM SEWER (BY DEV.)

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the State of Minn. Statutes Sections 326.02 to 326.16

John C. Bartel

Date 3/19/87 Minn. Reg. No. 14960

BRW

DESIGN BY MJM
DRAWN BY MCM

ORIGINAL DATE 12-1-86
REVISIONS
6-17-87 Existing profile

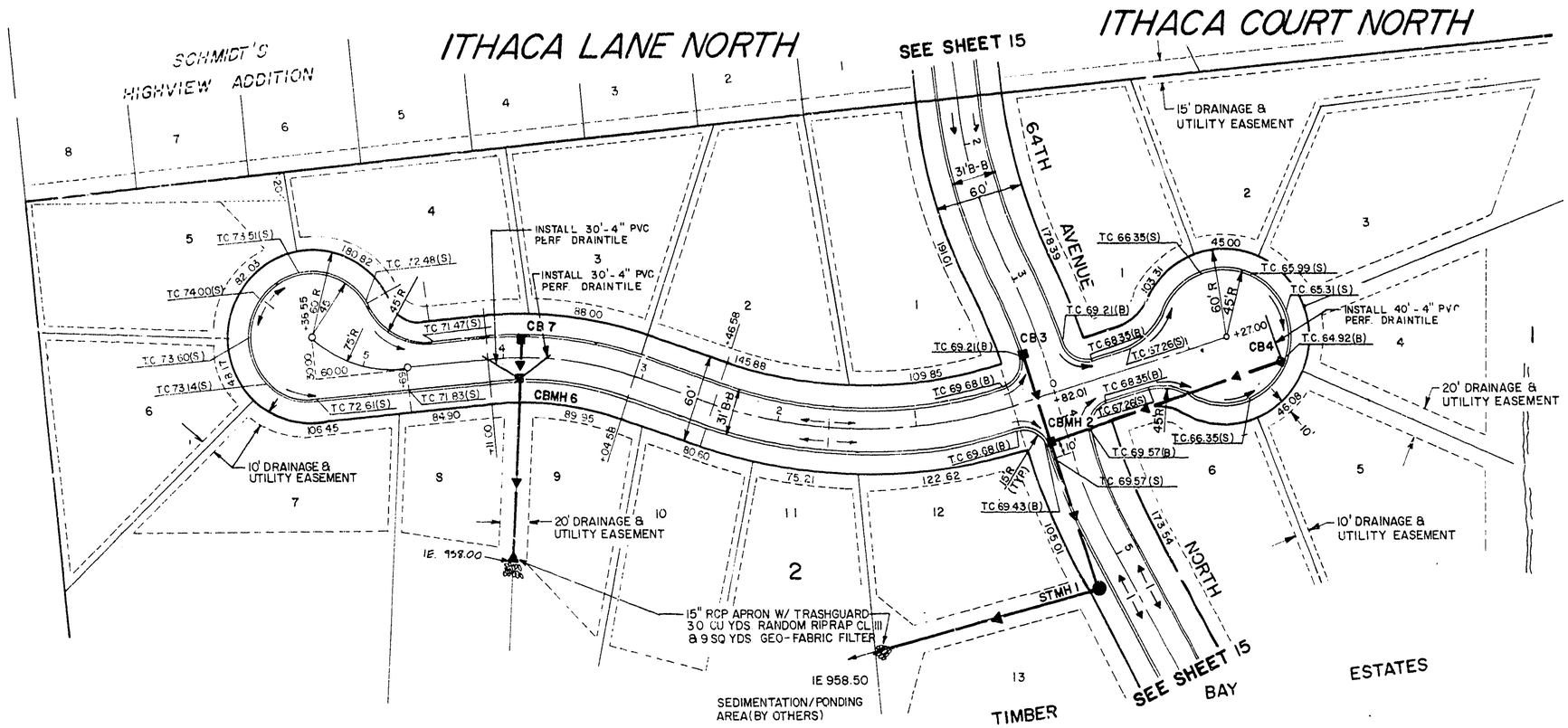
SURVEY BK. NO.

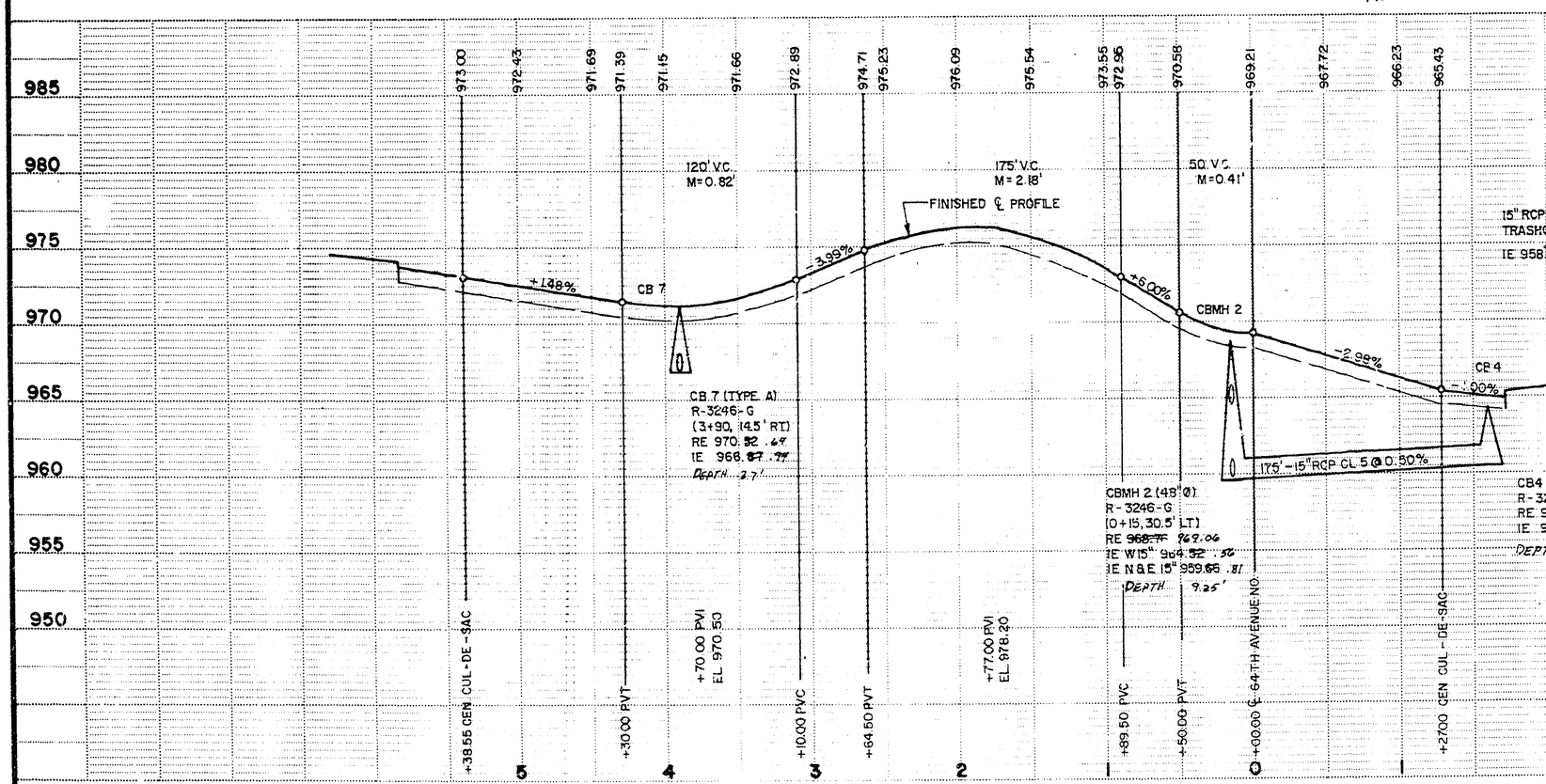
CITY OF MAPLE GROVE
PROJECT NO. 86-29
TIMBER BAY ESTATES
63RD PLACE NORTH
STREET & STORM SEWER

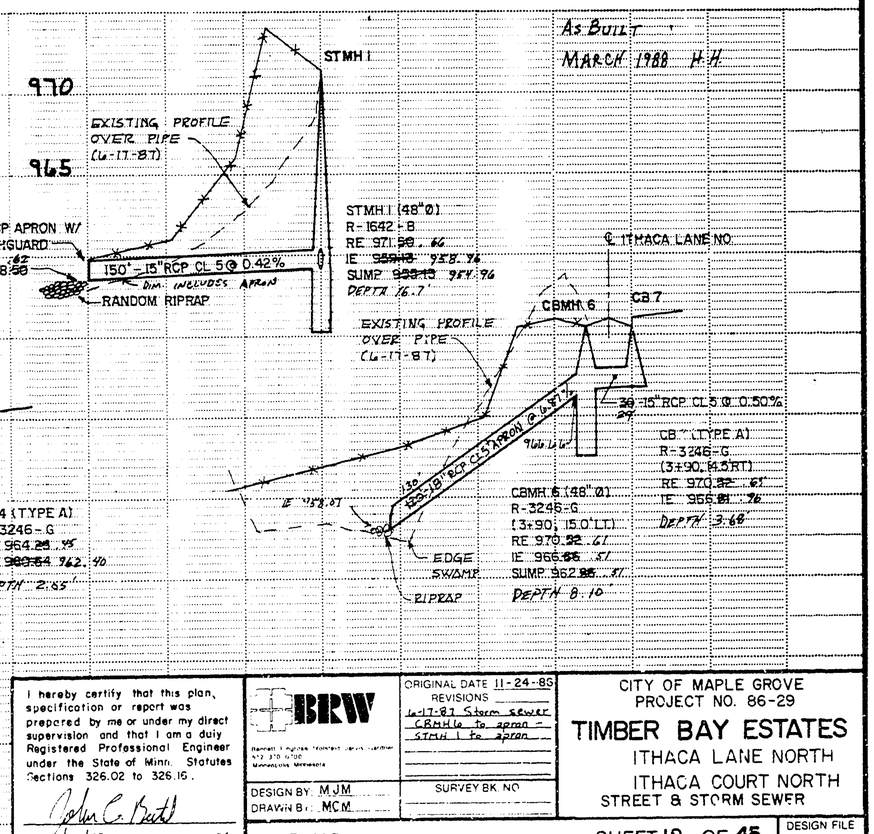
S.A.F. NO.

SHEET 17 OF 45

DESIGN FILE No. 14-8611







I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the State of Minn. Statutes Sections 326.02 to 326.16.

John C. Bartl

Date 3/19/87 Minn. Reg. No. 19960

BRW

Barnett Engineers Architects Planners
612 370-1000
Minneapolis, Minnesota

ORIGINAL DATE 11-24-86
REVISIONS
6-17-87 Storm sewer
CBMH 6 to apron -
STMH 1 to apron

DESIGN BY: MJM
DRAWN BY: MCM
SURVEY BK. NO.

CITY OF MAPLE GROVE
PROJECT NO. 86-29

TIMBER BAY ESTATES

ITHACA LANE NORTH
ITHACA COURT NORTH
STREET & STORM SEWER

S.A.P. NO.

SHEET 18 OF 45

DESIGN FILE No. 14-8611

NOTES

1.) ALL TRENCH EXCAVATION WILL BE BACKCAST

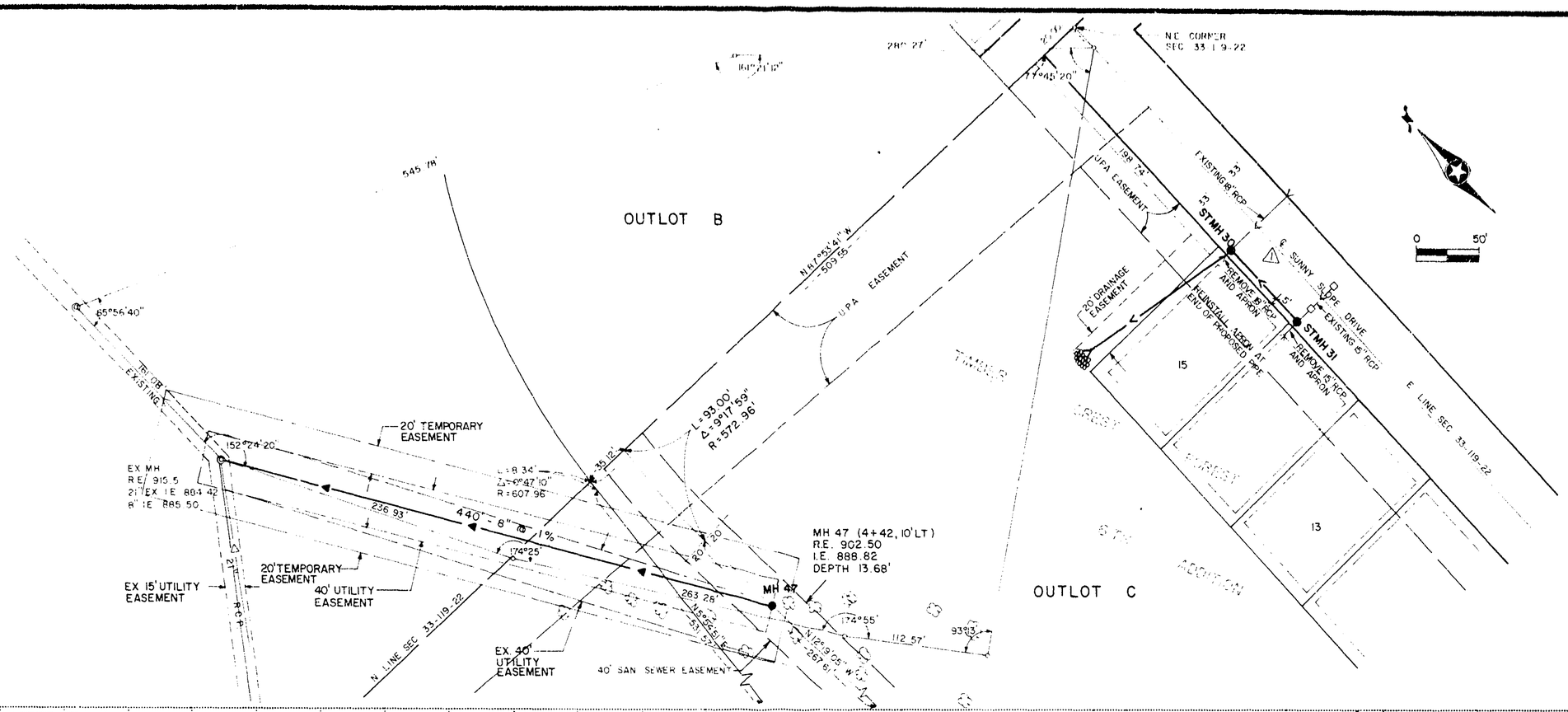
2.) ALL TREES (DEAD OR ALIVE) CUT FOR THIS PROJECT SHALL BE REMOVED FROM THE SITE

3.) CARE SHALL BE EXCERCISED TO SAVE ALL TREES POSSIBLE WITHIN THE EASEMENT AREA

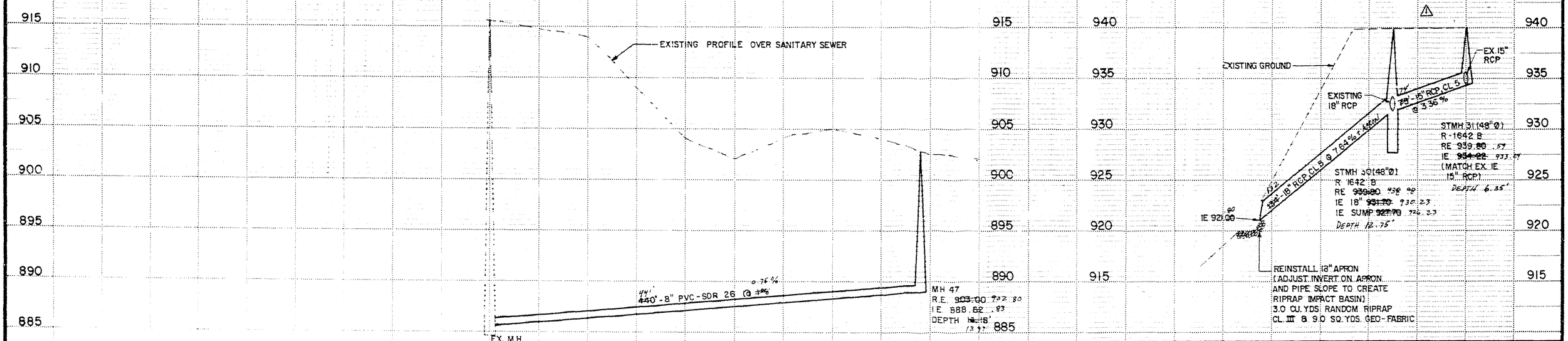
4.) MAINTAIN EXISTING DRAINAGE AT ALL TIMES.

5.) COMPACTION AROUND THE SEWER PIPE & TO 2' ABOVE THE PIPE SHALL BE 95% OF STD PROCTOR.

6.) RESTORATION SHALL BE COMPLETED WITHIN 7 DAYS OF COMPLETION OF THE SAN SEWER N OF BASS LAKE RD



As Built
March 1988 H.H.



I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the State of Minn. Statutes Sections 326.02 to 326.16.

John C. Bates

Date 3/19/87 Minn. Reg. No. 14960

BRW

ORIGINAL DATE 03-13-87
REVISIONS
1 ADD STORM SEWER

DESIGN BY HH-JCB
DRAWN BY J.A.S.

SURVEY BK. NO. 8222

CITY OF MAPLE GROVE
PROJECT NO. 85-27
TIMBER CREST FOREST 6TH ADDITION
SANITARY SEWER

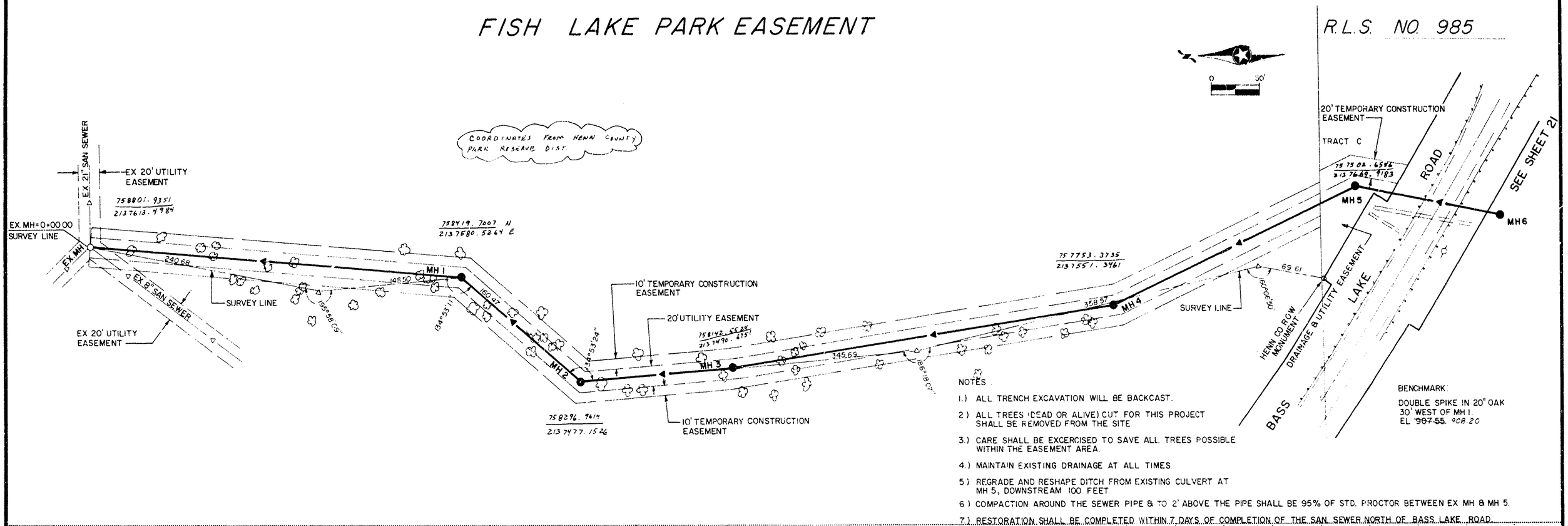
S.A.P. NO.

SHEET 19 OF 45

DESIGN FILE No. 14-861

FISH LAKE PARK EASEMENT

R.L.S. NO. 985



NOTES:

1.) ALL TRENCH EXCAVATION WILL BE BACKCAST.

2.) ALL TREES (DEAD OR ALIVE) CUT FOR THIS PROJECT SHALL BE REMOVED FROM THE SITE.

3.) CARE SHALL BE EXCERCISED TO SAVE ALL TREES POSSIBLE WITHIN THE EASEMENT AREA.

4.) MAINTAIN EXISTING DRAINAGE AT ALL TIMES.

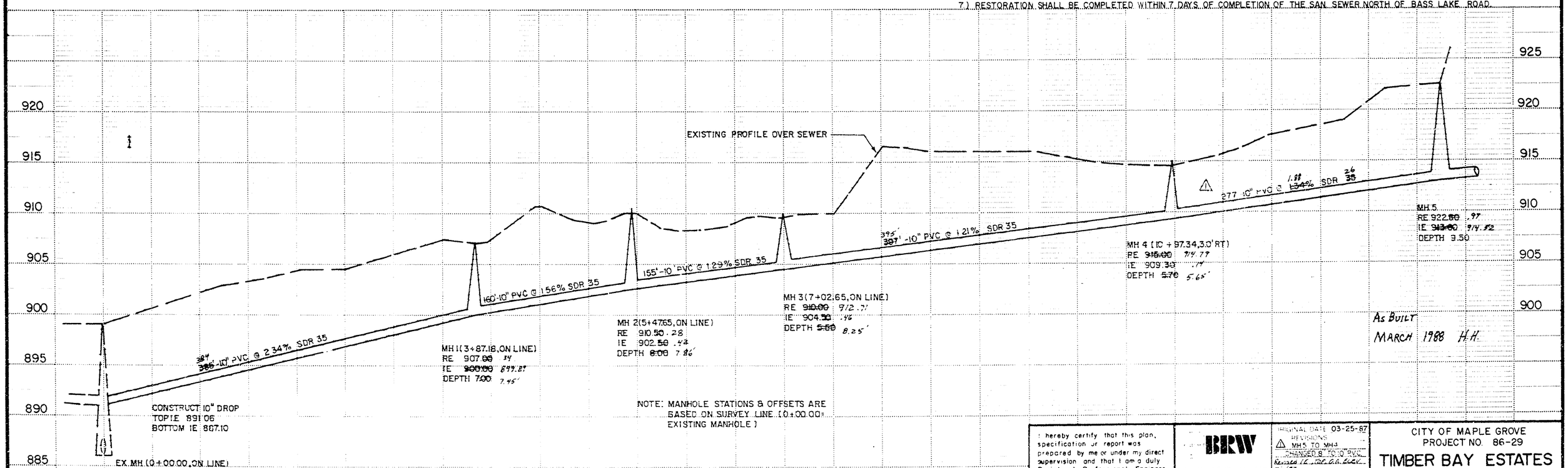
5.) REGRADE AND RESHAPE DITCH FROM EXISTING CULVERT AT MH 5, DOWNSTREAM 100 FEET.

6.) COMPACTION AROUND THE SEWER PIPE & TO 2' ABOVE THE PIPE SHALL BE 95% OF STD. PROCTOR BETWEEN EX MH & MH 5.

7.) RESTORATION SHALL BE COMPLETED WITHIN 7 DAYS OF COMPLETION OF THE SAN. SEWER NORTH OF BASS LAKE ROAD.

BENCHMARK:

DOUBLE SPIKE IN 20" OAK 30' WEST OF MH 1.
EL ~~907.55~~ 908.20



NOTE: MANHOLE STATIONS & OFFSETS ARE BASED ON SURVEY LINE (0+00.00= EXISTING MANHOLE)

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the State of Minn. Statutes Sections 326.02 to 326.16.

Date 3/23/87 Minn. Reg. No. 14960

BRW

ORIGINAL DATE 03-25-87
REVISIONS
△ MH 5 TO MH 3 CHANGED 8" TO 10" PVC. Revised I.E. Sta. & O.S. 5-1-87

DESIGN BY MJM / HH
DRAWN BY MCM

SURVEY BK NO. 8222-8163

CITY OF MAPLE GROVE
PROJECT NO. 86-29

TIMBER BAY ESTATES

FISH LAKE PARK EASEMENT

SANITARY SEWER

S.A.P. NO.

SHEET 20 OF 45

DESIGN FILE NO 14-8611

BASS LAKE ROAD

SEE SHEET 20

20' PERMANENT UTILITY EASEMENT
10' TEMPORARY UTILITY EASEMENT

FISH LAKE REGIONAL PARK

R.L.S. NO. 985
TRACT A
TRACT B
TRACT C

20' TEMP CONST. EASEMENT

NORTH LINE OF SW 1/4 OF NE 1/4 OF SEC 33

EAST LINE OF SW 1/4 OF NE 1/4 OF SEC 33

MH 5
10" X 4" WYE
114'-24" STEEL CASING JACKED IN PLACE
4" PVC SERVICE JACK-BORED
4" PVC SERVICE JACK-BORED
4" PVC SERVICE JACK-BORED
BIT SWALE
BITUMINOUS BERM
15:1 TAPER TO EXISTING
15:1 TAPER TO EXISTING
15:1 TAPER TO EXISTING
REINSTALL TWISTED END
REMOVE GUARD RAIL
18" CMP
CBMH 18
EX IE 19.52
EX IE 20.82
MH 6
CBMH 17
12' DRAINAGE & UTILITY EASEMENT
60'-30" STEEL CASING JACKED IN PLACE
CBMH 29
I.E. 936.00 (1)
15" RC APRON W/TRASHGUARD
3.0 CU. YDS. RANDOM RIPRAP CL. III
& 9.0 SQ. YDS. GEO-FABRIC FILTER
(EACH END OF CULVERT)
EX. 18" CMP
MH 18
8" X 4" WYE
8" X 4" WYE
24' CONC
MH 7
CB 28
CBMH 27
JUNEAU LANE
TRACT A
20' UTILITY & DRAINAGE EASEMENT
R.L.S. NO. 955
R.L.S. NO. 672
SEE SHEETS 22/24
MH 7 = 63'
MH 18 = 66'
0 + 59
4" = 10'
SCHMIDT LAKE
(LAKE FRANCES)
N.W.L. 936.00 (1)
0 50'

NOTES :

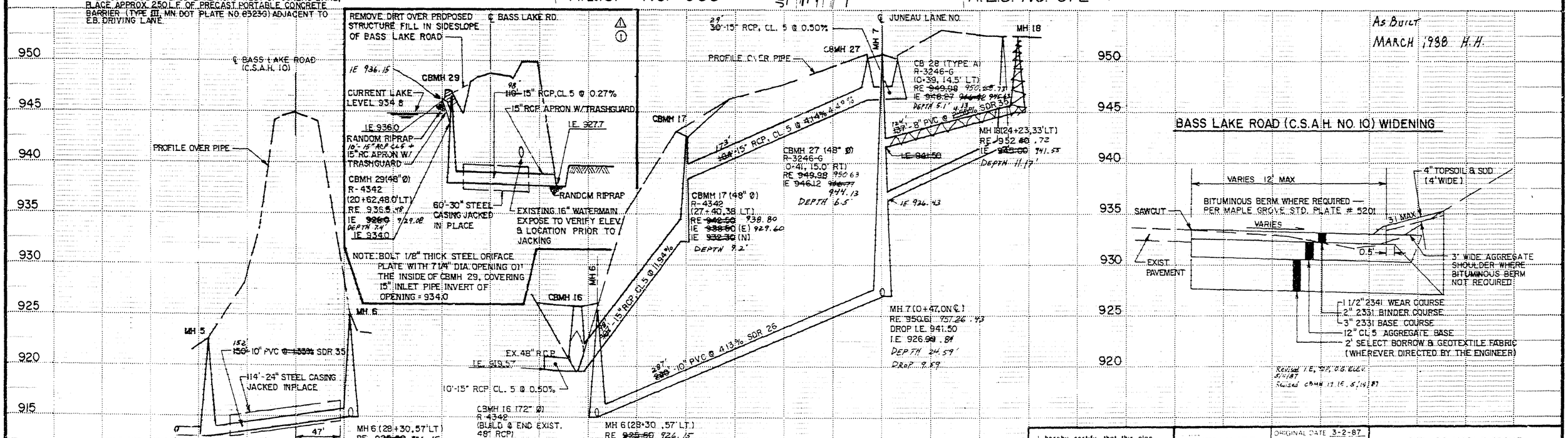
1.) SALVAGE & REINSTALL TWISTED END TREATMENTS.

2.) SALVAGED GUARDRAIL & DELINEATORS BECOME PROPERTY OF THE CITY OF MAPLE GROVE.

3.) EXACT LOCATION OF SEWER SERVICE JACKINGS TO BE FIELD DETERMINED.

4.) EXPOSE EXISTING 16" D.I.P. WATERMAIN TO VERIFY ELEVATION & LOCATION BEFORE SERVICE JACKING.

(1) 5.) AS PART OF THE SANITARY SEWER CONSTRUCTION ALONG THE SOUTH SIDE OF BASS LAKE ROAD WEST OF JUNEAU LANE, PLACE APPROX. 250 L.F. OF PRECAST PORTABLE CONCRETE BARRIER (TYPE III, MN DOT PLATE NO 6323G) ADJACENT TO E.B. DRIVING LANE.



As Built
MARCH 1988 H.H.

BASS LAKE ROAD (C.S.A.H. NO. 10) WIDENING

Revised I.E. 927, 0.8' ELEV. 5/11/87
Revised CBMH 17 I.E. 5/14/87

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the State of Minn. Statutes Sections 326.02 to 326.16.

John E Bartl

Date 3/19/87 Minn. Reg. No. 14961

BRW

DESIGN BY MJM
DRAWN BY MCM

ORIGINAL DATE 3-2-87
REVISIONS
(1) PRECAST BARRIER
CBMH 29 TO OUTLET
CHANGED 8 TO 10 PVC
(1) 4-28-87 LAKE CONTROL STR. & LAKE N.W.L.
RADIUS, BIT. SWALE

SURVEY BK NO
8163-8222

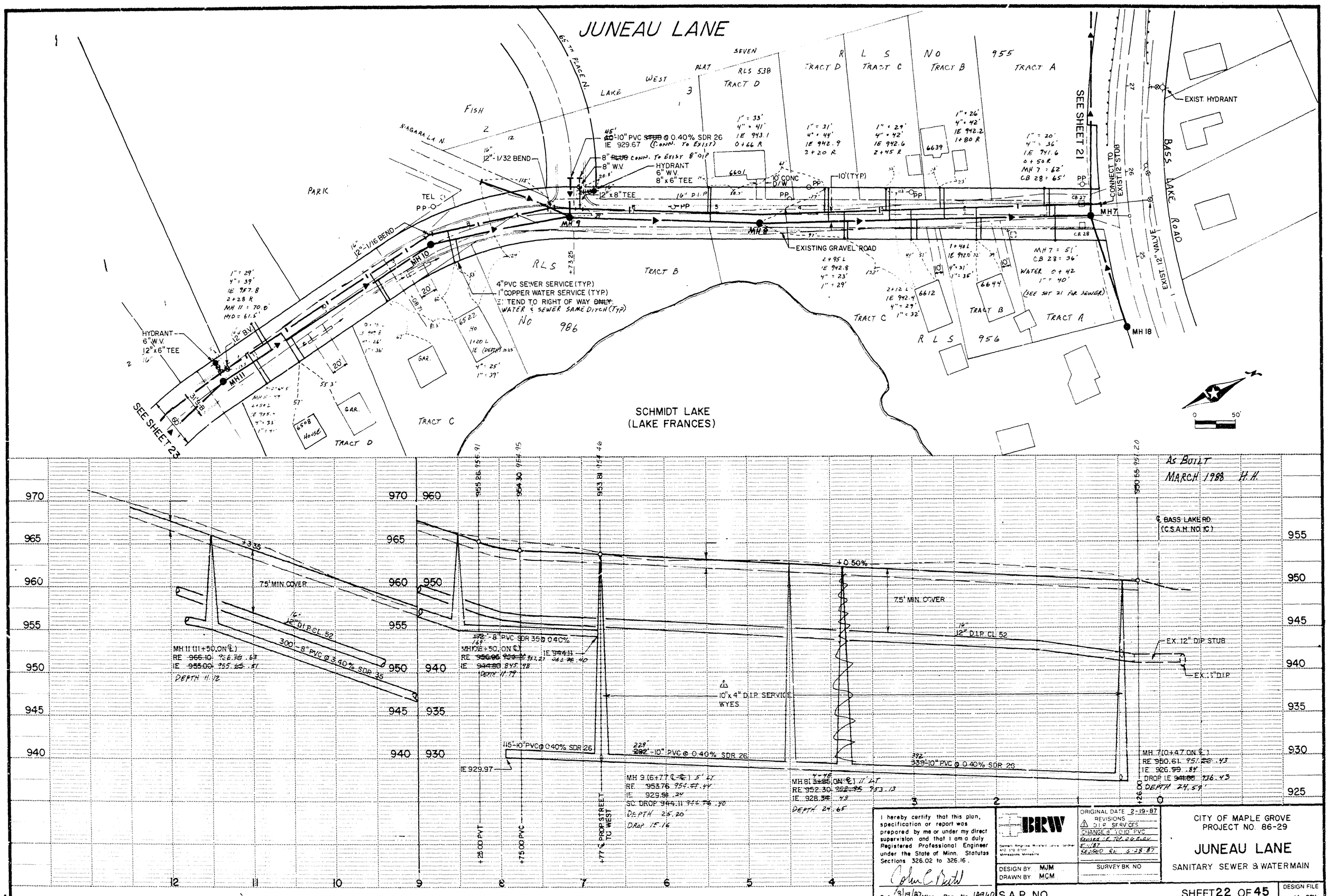
CITY OF MAPLE GROVE
PROJECT NO. 86-29

BASS LAKE ROAD
STORM SEWER, SANITARY SEWER & WIDENING

S.A.P. NO.

SHEET 21 OF 45

DESIGN FILE No 14-8611



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John C. Bartl

Date 3/19/87 Minn. Reg. No. 18960

BRW

Barnett Bergstrom Winkler Jones Gardner
A12 170 0700
Minneapolis, Minnesota

ORIGINAL DATE 2-19-87
REVISIONS
1 D.I.P. SERVICES
CHANGE 3" TO 10" PVC
REVISED IE TOP 2-26-87
5-1-87
REVISED RE 5-28-87

DESIGN BY MJM
DRAWN BY MCM

SURVEY BK. NO

CITY OF MAPLE GROVE
PROJECT NO. 86-29

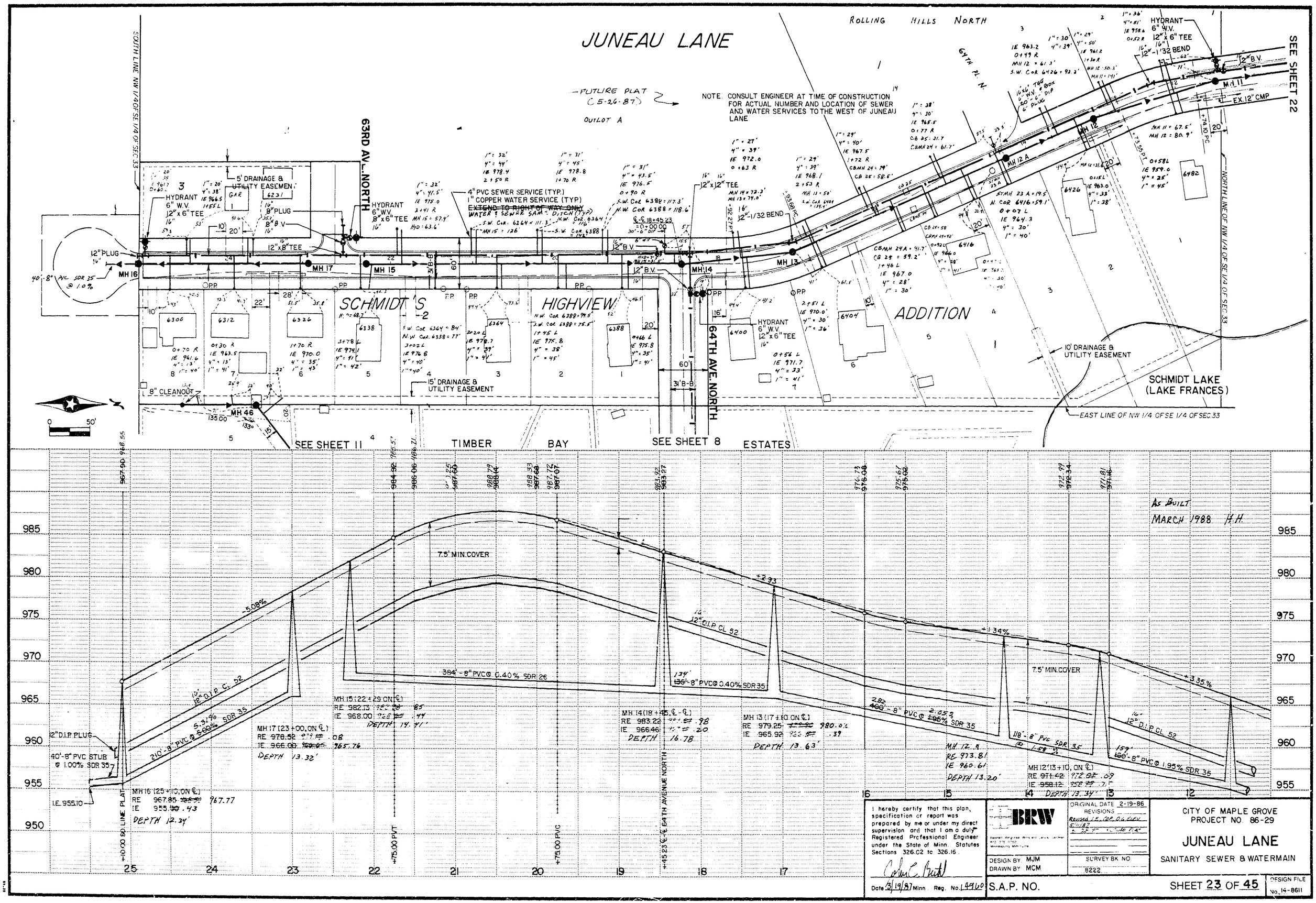
JUNEAU LANE

SANITARY SEWER & WATERMAIN

S.A.P. NO.

SHEET 22 OF 45

DESIGN FILE No. 14-8661



I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the State of Minn. Statutes Sections 326.02 to 326.16.

Date 3/19/87 Minn. Reg. No. 14960

BRW

ORIGINAL DATE 2-19-86
REVISIONS
Revised I.E. Cor. O.G. Elev. 5/11/87

DESIGN BY MJM
DRAWN BY MCM

SURVEY BK NO 8222

CITY OF MAPLE GROVE
PROJECT NO. 86-29

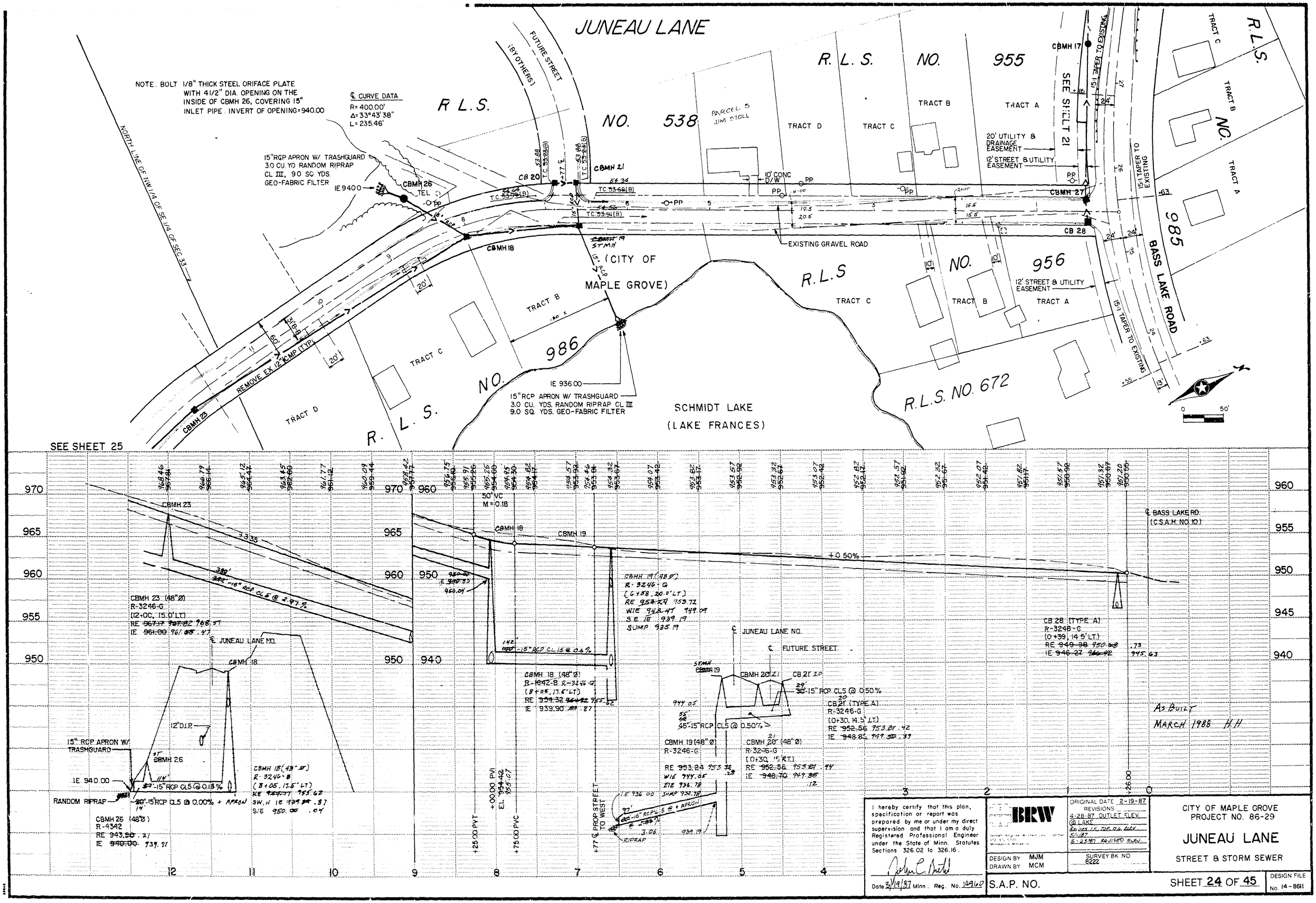
JUNEAU LANE

SANITARY SEWER & WATERMAIN

S.A.P. NO.

SHEET 23 OF 45

DESIGN FILE No. 14-8611



I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the State of Minn. Statutes Sections 326.02 to 326.16.

Date 3/19/87 Minn. Reg. No. 14960

BRW

ORIGINAL DATE 2-19-87
REVISIONS
4-28-87 OUTLET ELEV. @ LAKE
Revised I.P. TOP O.G. ELEV.
5/11/87
5-25-87 REVISED ELEV.

DESIGN BY MJM
DRAWN BY MCM

SURVEY BK NO. 8222

CITY OF MAPLE GROVE
PROJECT NO. 86-29

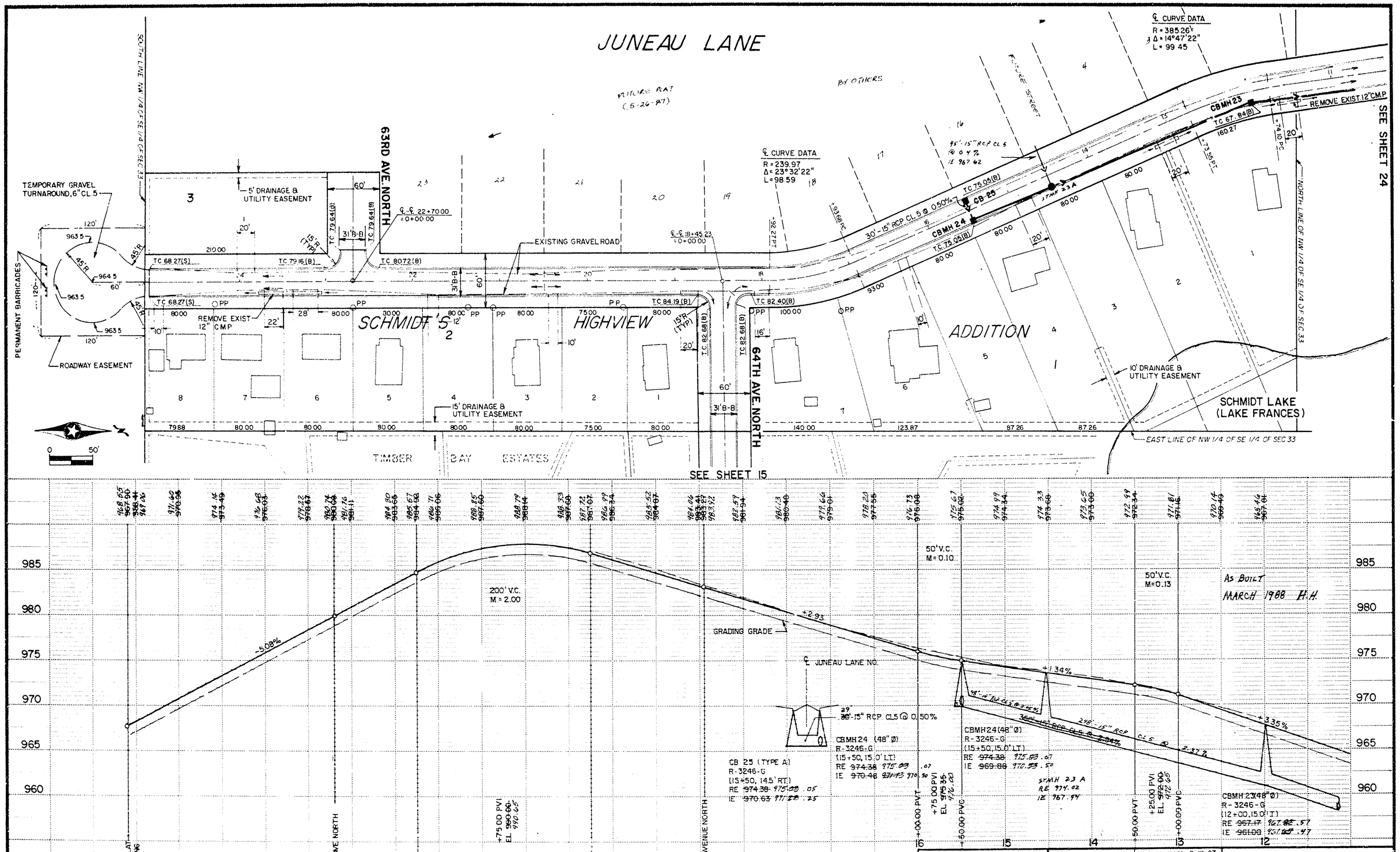
JUNEAU LANE

STREET & STORM SEWER

S.A.P. NO.

SHEET 24 OF 45

DESIGN FILE No. 14-8611



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Date 3/19/87 Minn. Reg. No. 14960

BRW

ORIGINAL DATE 2-19-87
REVISIONS
Revised Top, TE, QG, EGY 5/11/87
DESIGN BY MJM
DRAWN BY MCM
SURVEY BK NO 8222

CITY OF MAPLE GROVE
PROJECT NO. 86-29

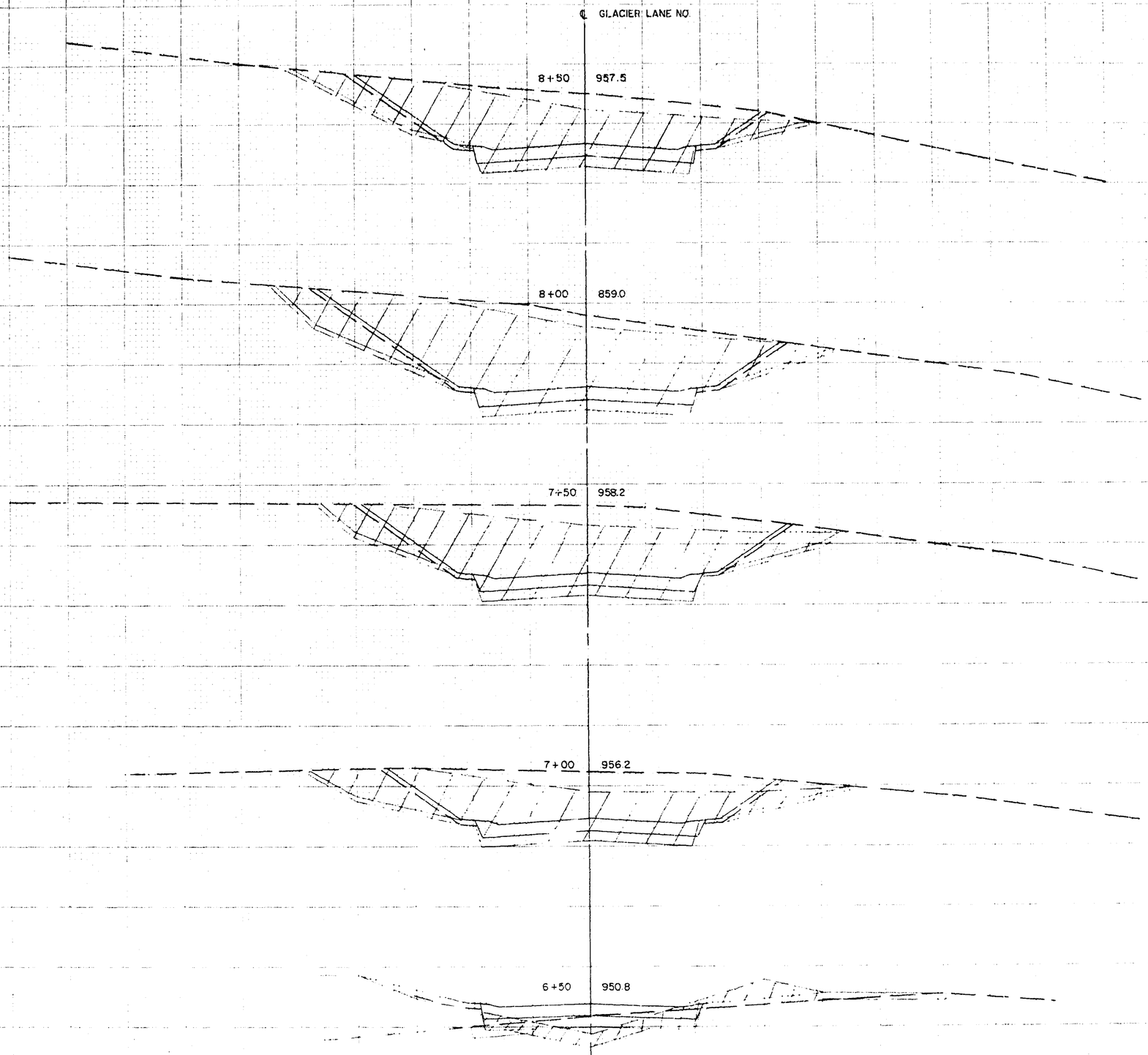
JUNEAU LANE

STREET & STORM SEWER

S.A.P. NO.

SHEET 25 OF 45

DESIGN FILE No 14-8611



NOTE:
ADD 0.65 FEET TO ALL ELEVATIONS.

5'
10'

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the State of Minn. Statutes Sections 326.02 to 326.16.

Date 3/19/87 Minn. Reg. No. 14960

BRW

DESIGN BY H.H.
DRAWN BY J.A.S.

ORIGINAL DATE 03-13-87
REVISIONS
5/1/87 Add note

SURVEY BK. NO.

CITY OF MAPLE GROVE
PROJECT NO. 86-29

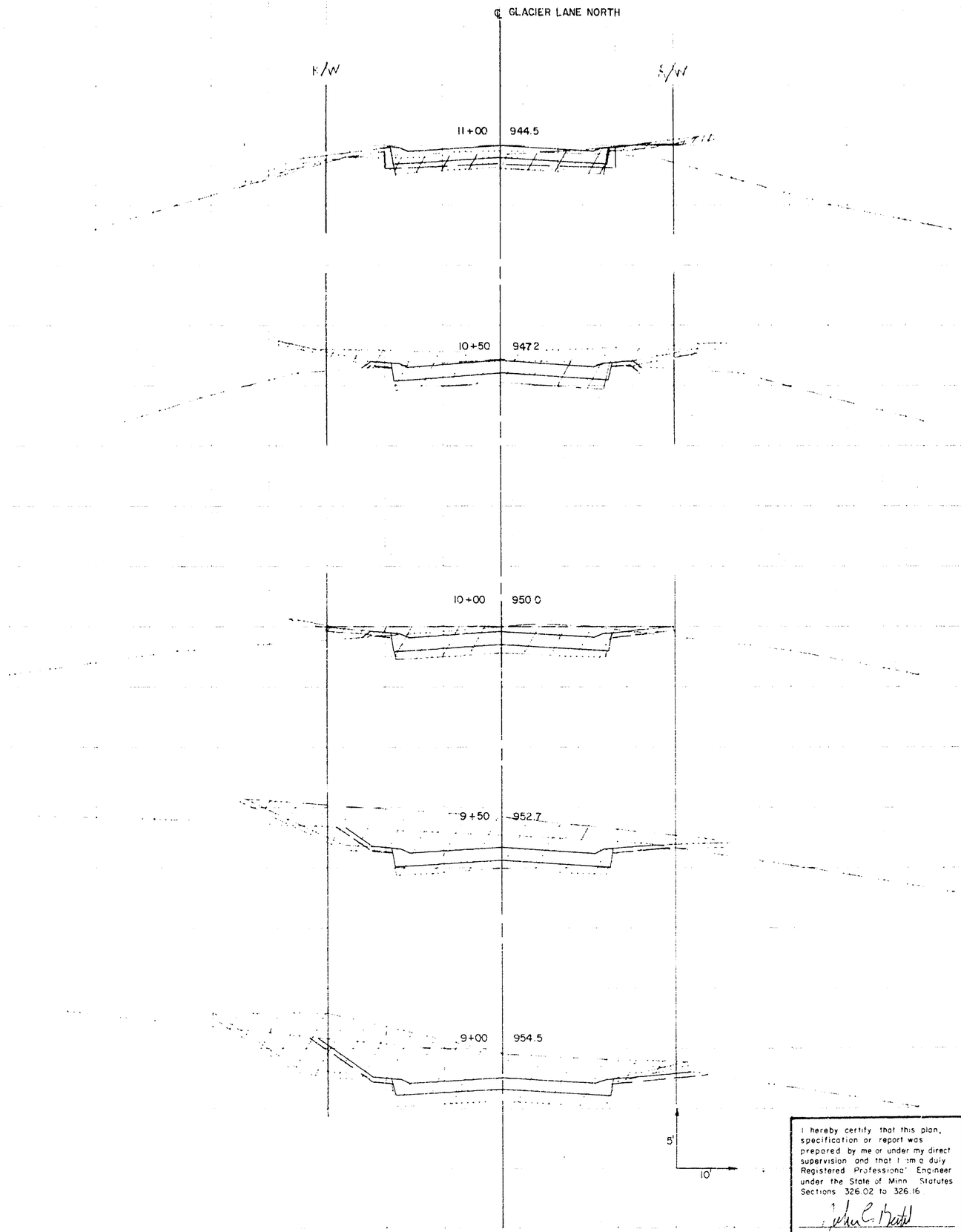
TIMBER BAY ESTATES

GLACIER LANE N.
6+50 TO 8+50

S.A.P. NO.

SHEET 26 OF 45

DESIGN FILE No. 14-8611



NOTE:
ADD 0.65 FEET TO ALL ELEVATIONS.

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Date 3/19/87 Minn. Reg. No. 14960

BRW

03-13-87
5/11/87 Add Note

DESIGNED BY H.H.
DRAWN BY JAS

CITY OF MAPLE GROVE
PROJECT NO. 86-29

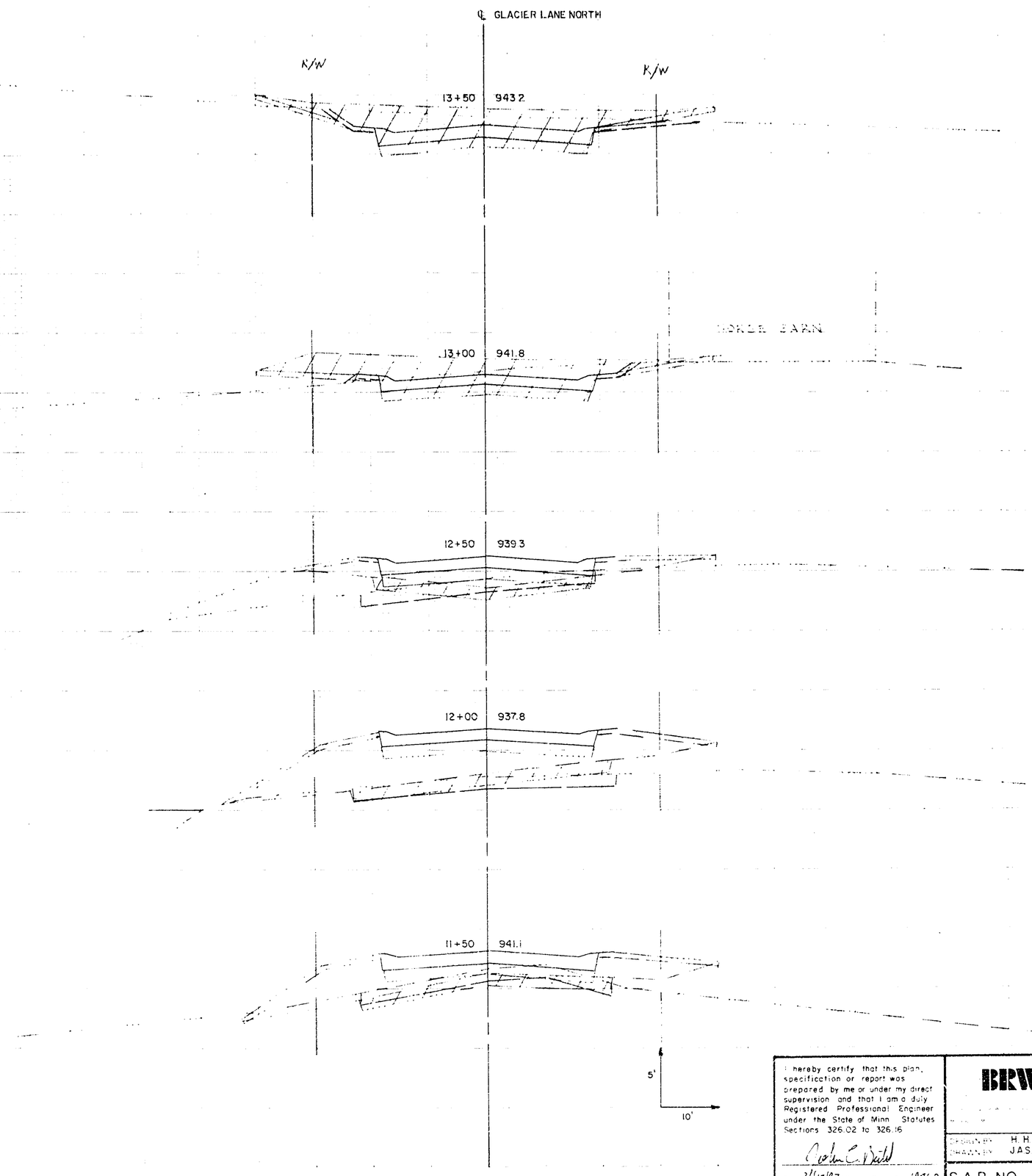
TIMBER BAY ESTATES

GLACIER LANE N.
9+00 TO 11+00

S.A.P. NO.

SHEET 27 OF 45

DESIGN FILE No. 14-8611



CUT
AS BUILT
MARCH 1988 H.H.

NOTE:
ADD 0.65 FEET TO ALL ELEVATIONS.

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the State of Minn. Statutes Sections 326.02 to 326.16

Date 3/19/87 Minn. Reg. No. 14960

BRW

DATE 03-13-87
5/1/87 Add Note

DESIGNED BY H.H.
CHECKED BY JAS

CITY OF MAPLE GROVE
PROJECT NO. 86-29

TIMBER BAY ESTATES

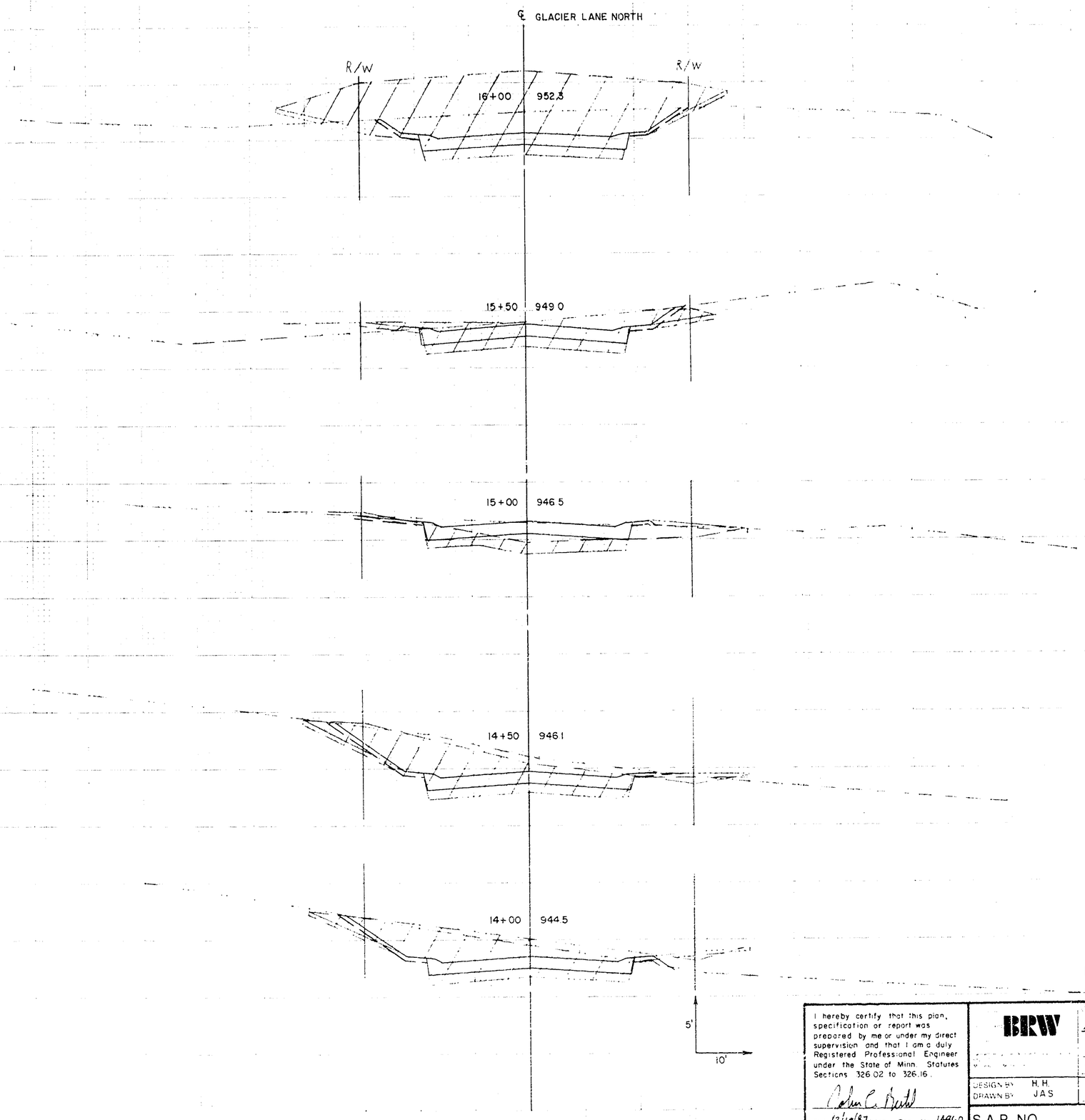
GLACIER LANE N.

11+50 TO 13+50

S.A.P. NO.

SHEET 28 OF 45

DESIGN FILE No. 14-8611



CUT
TO BE LIT
MARCH 1984 H.H.

NOTE:
ADD 0.65 FEET TO ALL ELEVATIONS.

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the State of Minn. Statutes Sections 326.02 to 326.16.

Date 3/19/87 Minn. Reg. No. 14960

BRW

ORIGINAL DATE 03-13-87
REVISIONS
5/11/87 Add note

DESIGN BY H.H.
DRAWN BY JAS
SURVEY BK. NO.

CITY OF MAPLE GROVE
PROJECT NO. 86-29

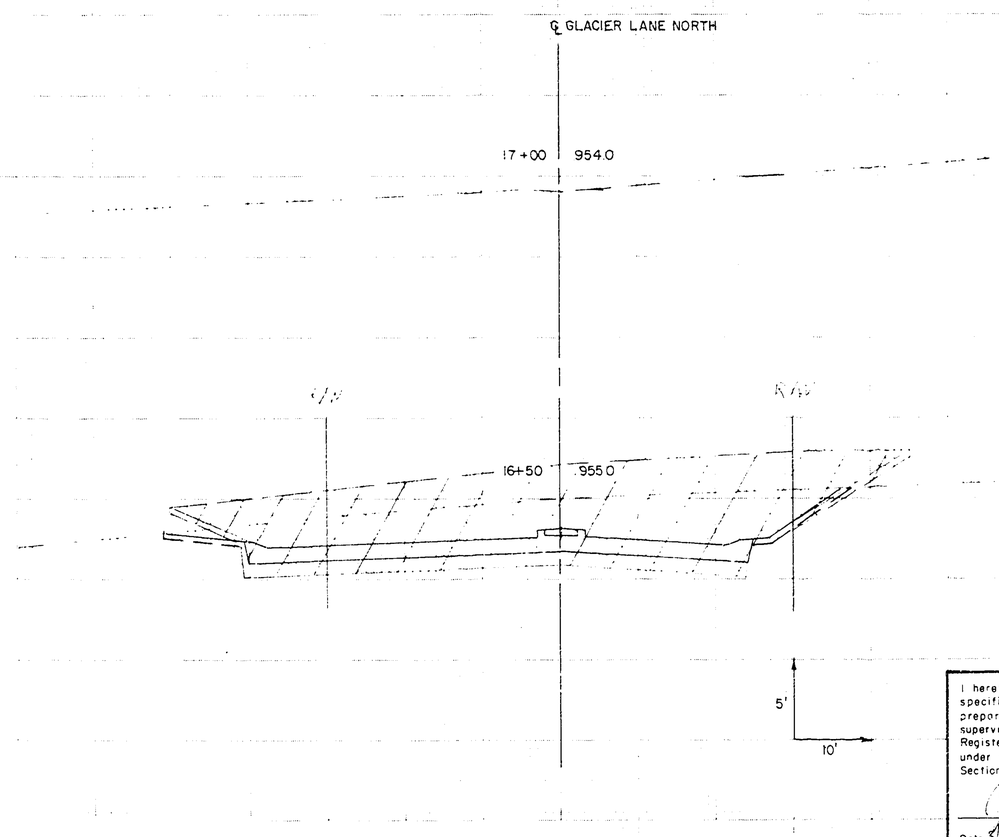
TIMBER BAY ESTATES

GLACIER LANE N.
14+00 TO 16+00

S.A.P. NO.

SHEET 29 OF 45

DESIGN FILE No. 14-8611



CUT
AS BUILT
MARCH 1999 H.H.

NOTE:
ADD 0.65 FEET TO ALL ELEVATIONS.

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the State of Minn. Statutes Sections 326.02 to 326.16.

Date 5/19/87 Minn. Reg. No. 14960

BRW

ORIGINAL DATE 03-13-87
REVISIONS
5/19/87 Add Note

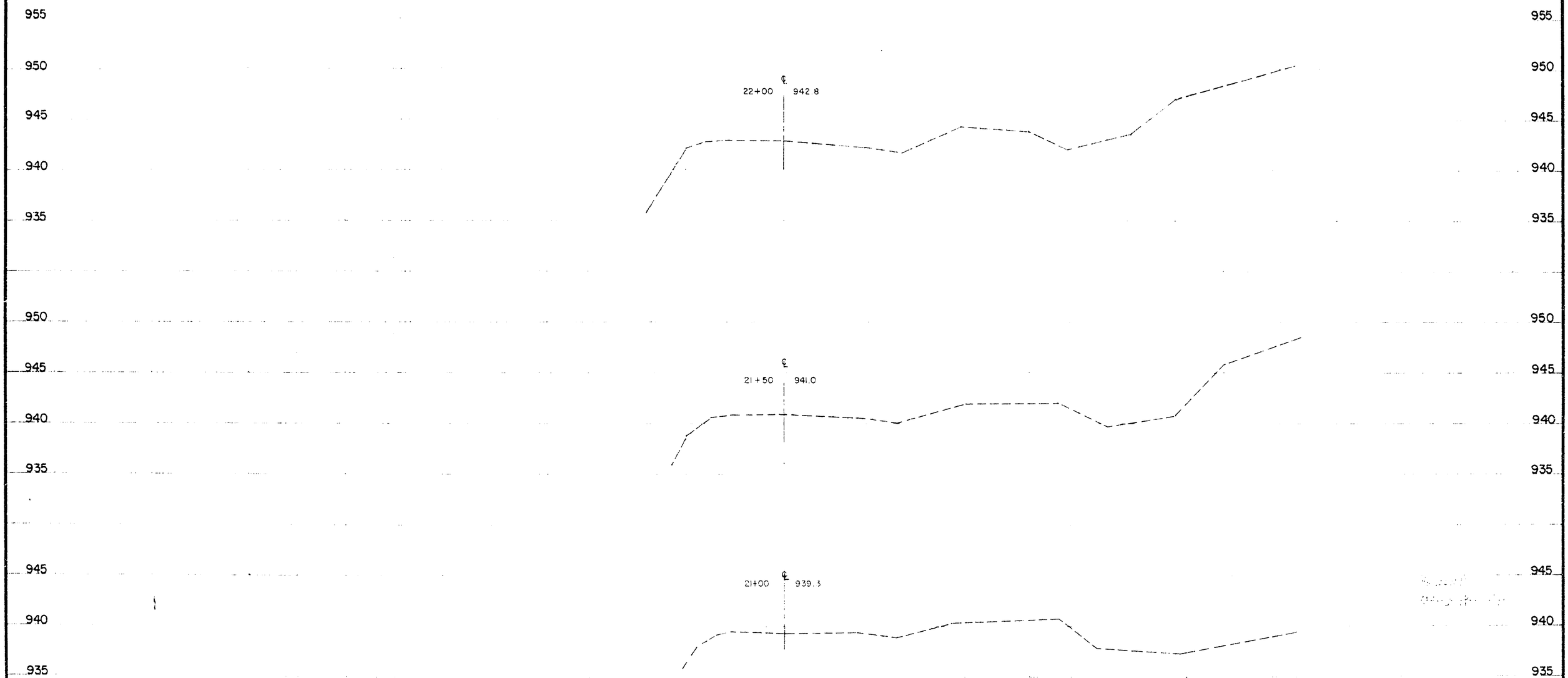
DESIGN BY H. H.
DRAWN BY J.A.S.
SURVEY BK. NO.

CITY OF MAPLE GROVE
PROJECT NO. 86-29
TIMBER BAY ESTATES
GLACIER LANE N.
6+50 TO 17+00

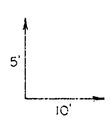
S.A.P. NO.

SHEET 30 OF 35

DESIGN FILE No. 14-9611



NOTE:
ADD 0.65 FEET TO ALL ELEVATIONS.



I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the State of Minn. Statutes Sections 326.02 to 326.15

Date 3/19/87 Minn. Reg. No. 14960

BRW

ORIGINAL DATE 3-3-87
REVISION 5/11/87 Add Note

DESIGN BY MJM
DRAWN BY
SURVEY BK. NO.

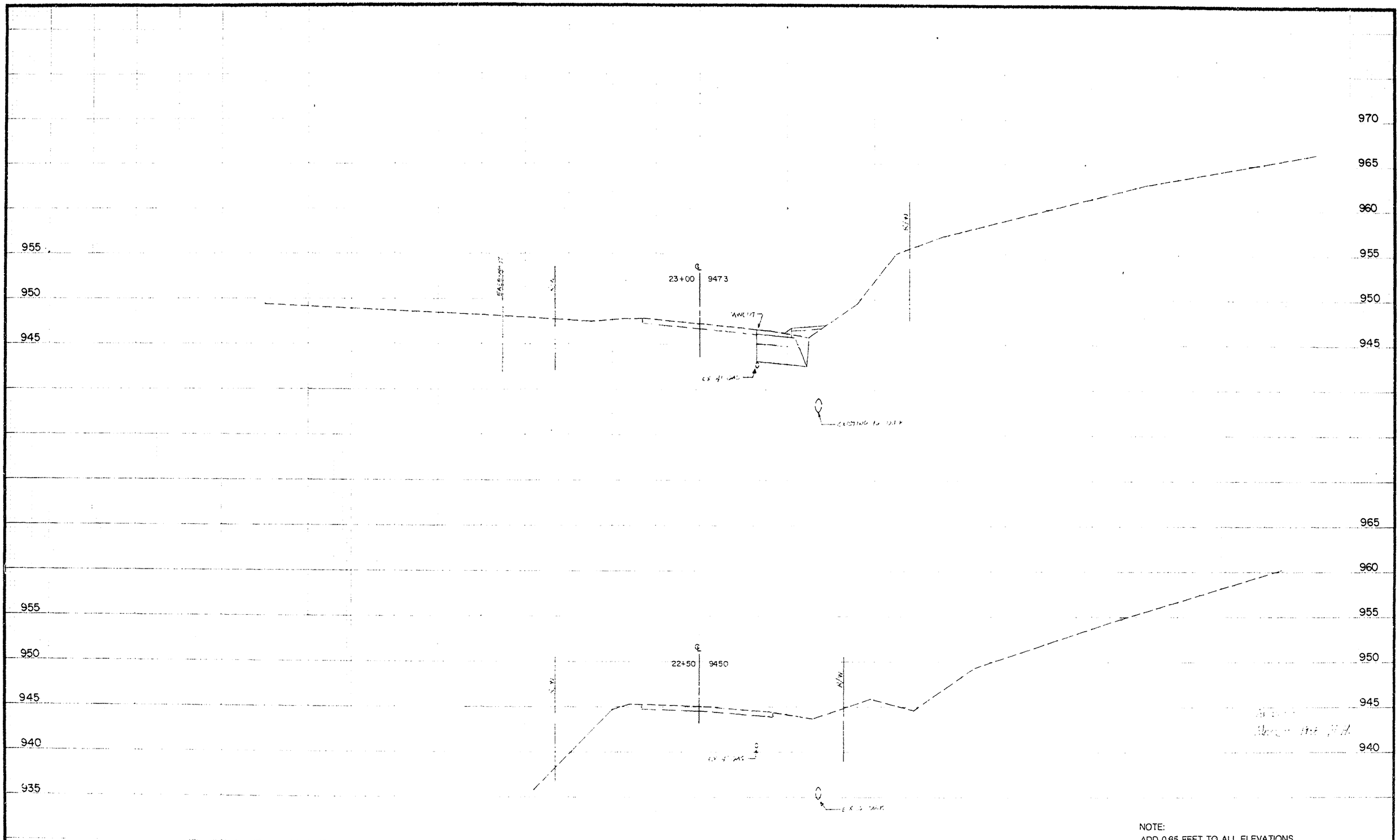
CITY OF MAPLE GROVE
PROJECT NO. 86-29

BASS LAKE RD.
CROSS SECTIONS
21+00-22+00

S.A.P. NO.

SHEET 31 OF 45

DESIGN FILE No. 14-8611



NOTE:
ADD 0.65 FEET TO ALL ELEVATIONS.

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the State of Minn. Statutes Sections 326.02 to 326.16

Date 3/19/87 Minn. Reg. No. 14460

BRW

ORIGINAL DATE 3-3-87
REVISIONS
5/11/87 Add Note

DESIGNED MJM
DRAWN BY
SURVEY BK. NO. 8163-8222

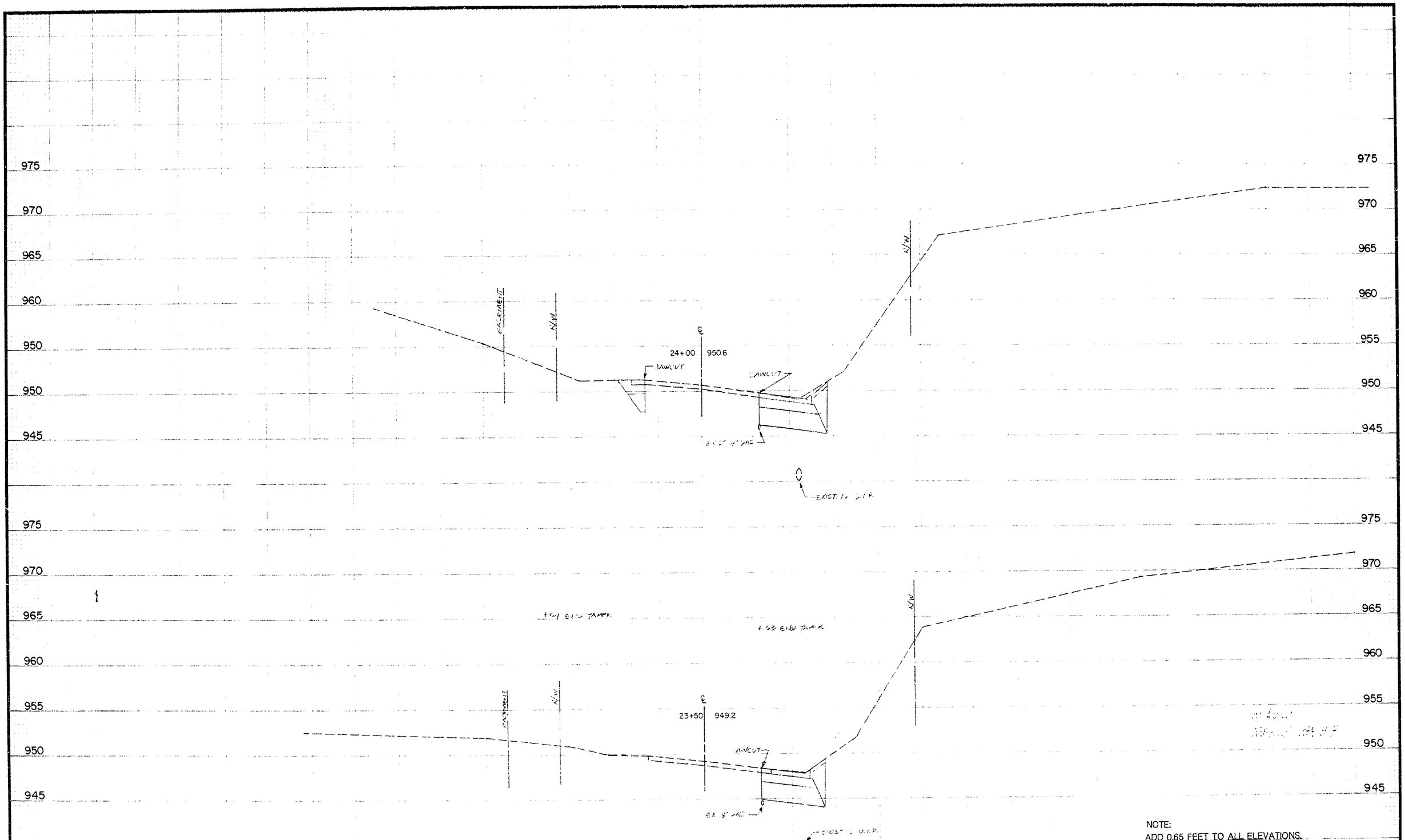
CITY OF MAPLE GROVE
PROJECT NO. 86-29

BASS LAKE RD.
CROSS SECTIONS
22+50 – 23+00

S.A.P. NO.

SHEET 32 OF 45

DESIGN FILE No. 14-8611



NOTE:
ADD 0.65 FEET TO ALL ELEVATIONS.

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the State of Minn. Statutes Sections 326.02 to 326.16.

Date 3/19/87 Minn. Reg. No. 14460

BRW

DESIGN BY MJM
DRAWN BY

ORIGINAL DATE 3-3-87
REVISIONS
3/19/87 Add Note

SURVEY BK. NO.
8163 - 8222

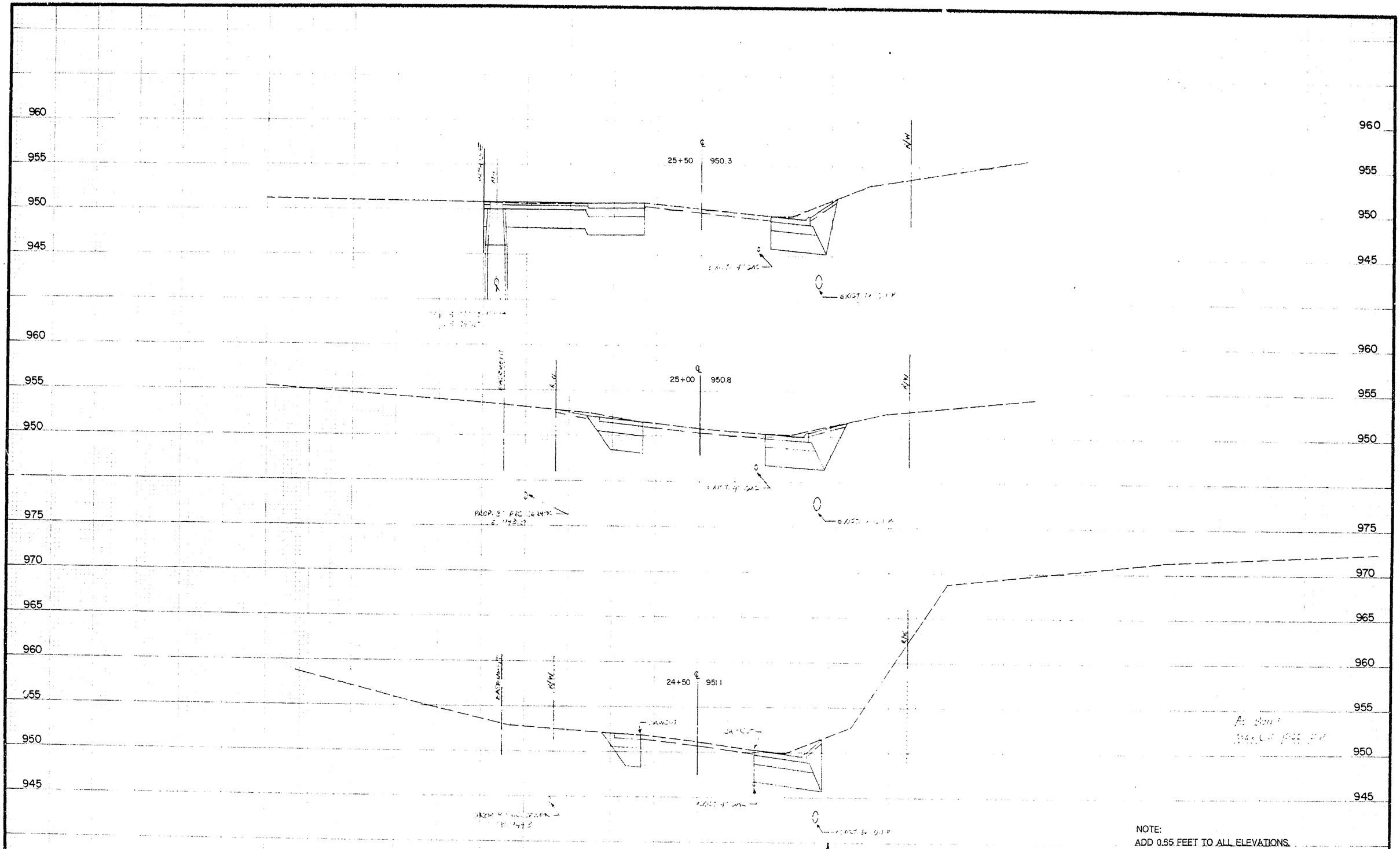
CITY OF MAPLE GROVE
PROJECT NO. 86-29

BASS LAKE RD
CROSS SECTIONS
23+50 - 24+00

S.A.P. NO.

SHEET 33 OF 45

DESIGN FILE
No. 14-8611



NOTE:
ADD 0.55 FEET TO ALL ELEVATIONS.

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the State of Minn. Statutes Sections 326.02 to 326.15

Date 3/19/87 Minn. Reg. No. 19960

BRW

DESIGN BY MJM
DRAWN BY

ORIGINAL DATE 3-3-87
REVISIONS
5/4/87 Add Note

SURVEY BK. NO.

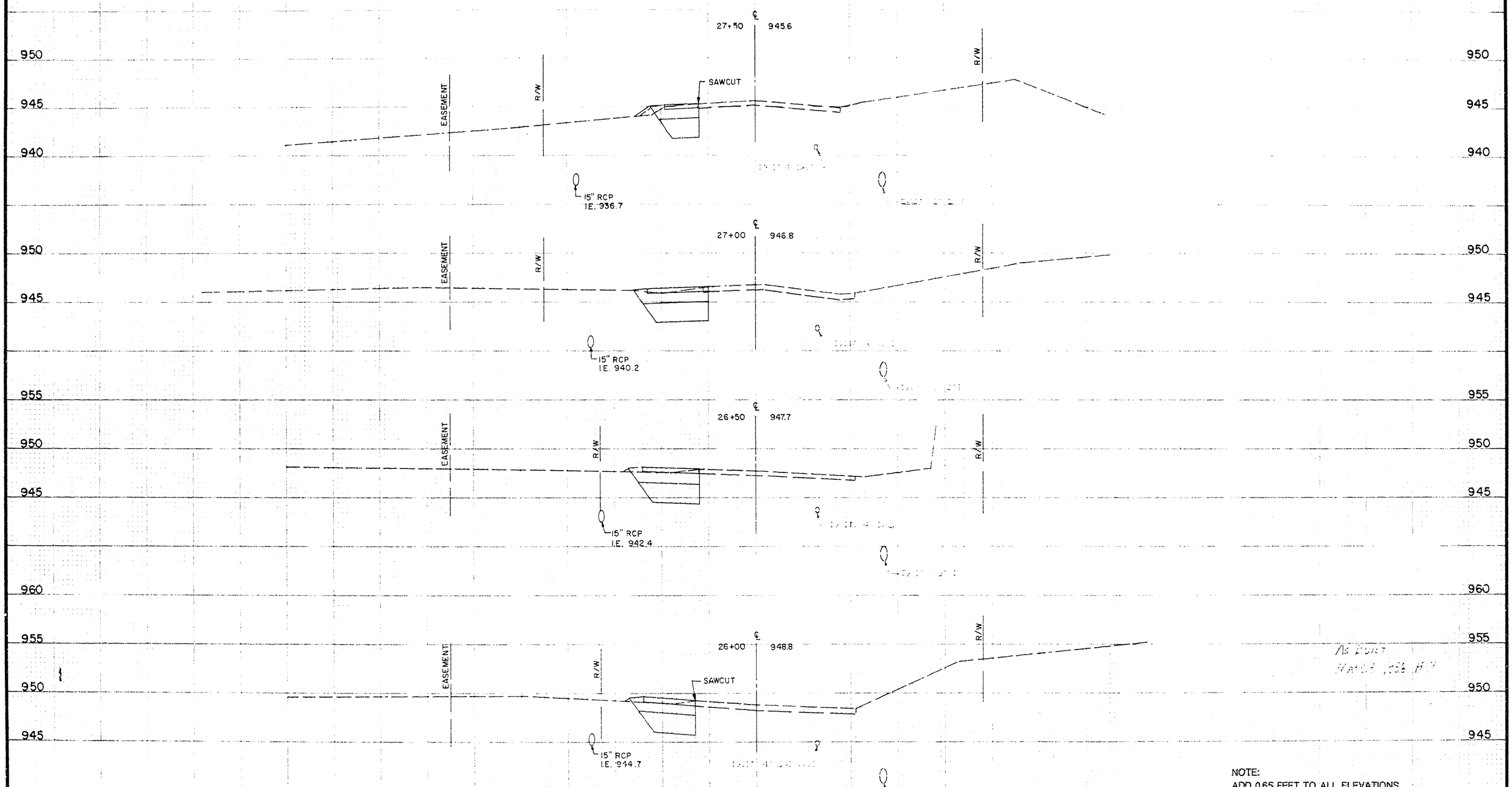
S.A.P. NO.

CITY OF MAPLE GROVE
PROJECT NO. 86-29

BASS LAKE RD.
CROSS SECTIONS
24+50 - 25+50

SHEET 34 OF 45

DESIGN FILE No. 14-8611



NOTE:
ADD 0.65 FEET TO ALL ELEVATIONS.

5'
10'

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the State of Minn. Statutes Sections 326.02 to 326.16.

John C. Beth

Date 3/19/87 Minn. Reg. No. 14960

BRW

ORIGINAL DATE 3-3-87
REVISIONS
5/11/87 Add Note

DESIGN BY MJM
DRAWN BY JAS

SURVEY BK. NO. 8163 / 8222

CITY OF MAPLE GROVE
PROJECT NO. 86-29

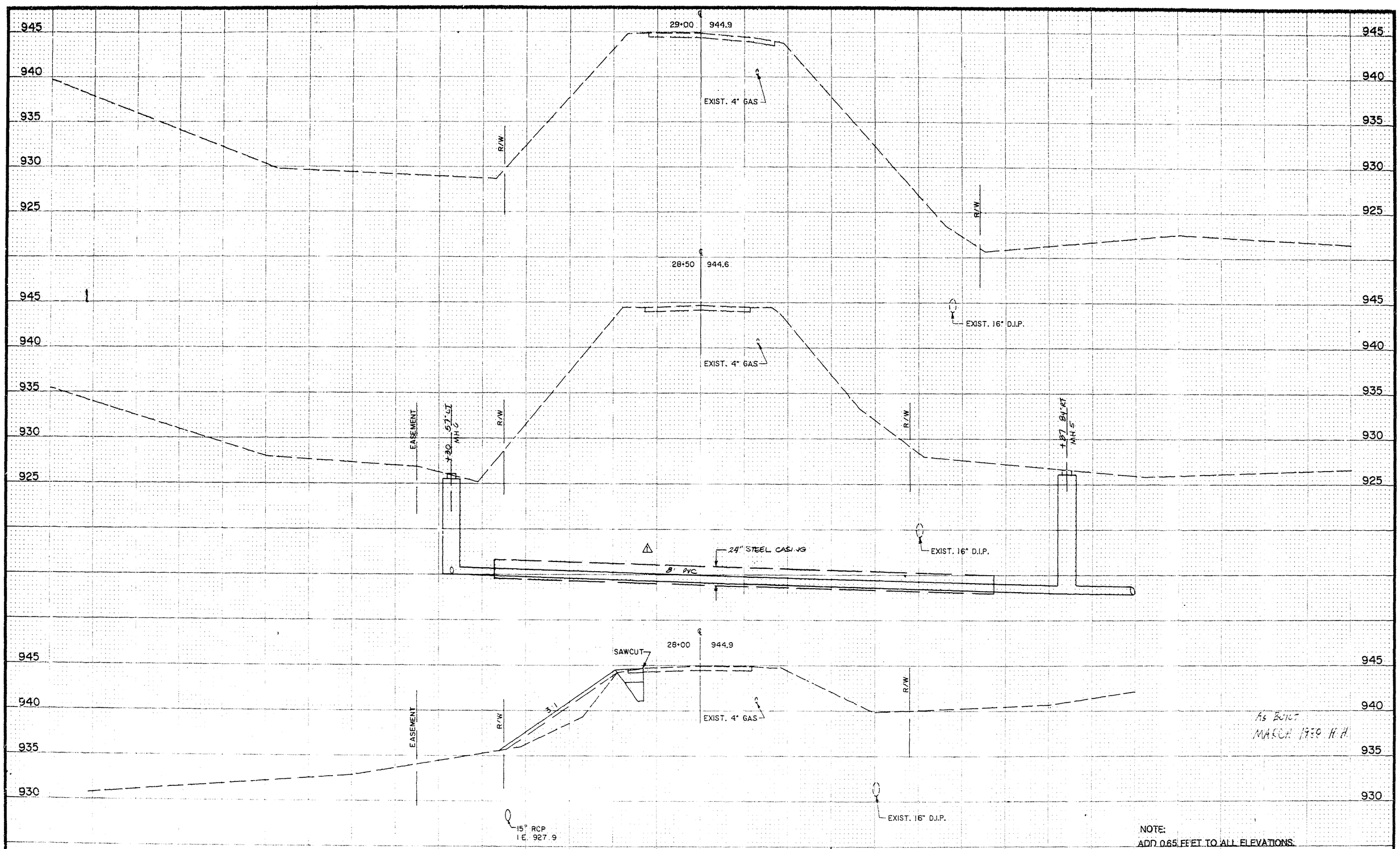
BASS LAKE RD.

CROSS SECTIONS
26+00 - 27+50

S.A.P. NO.

SHEET 35 OF 45

DESIGN FILE No. 14-8611



NOTE:
ADD 0.65 FEET TO ALL ELEVATIONS.

As Built
MARCH 1989 H.A.

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the State of Minn. Statutes Sections 326.02 to 326.16.

Date 12/19/87 Minn. Reg. No. 19960

BRW

ORIGINAL DATE 3-3-87
REVISIONS
1 MH6 TO MH5
5/11/87 Add Note

DESIGN BY MJM
DRAWN BY JAS
SURVEY BK NO

CITY OF MAPLE GROVE
PROJECT NO. 86-29

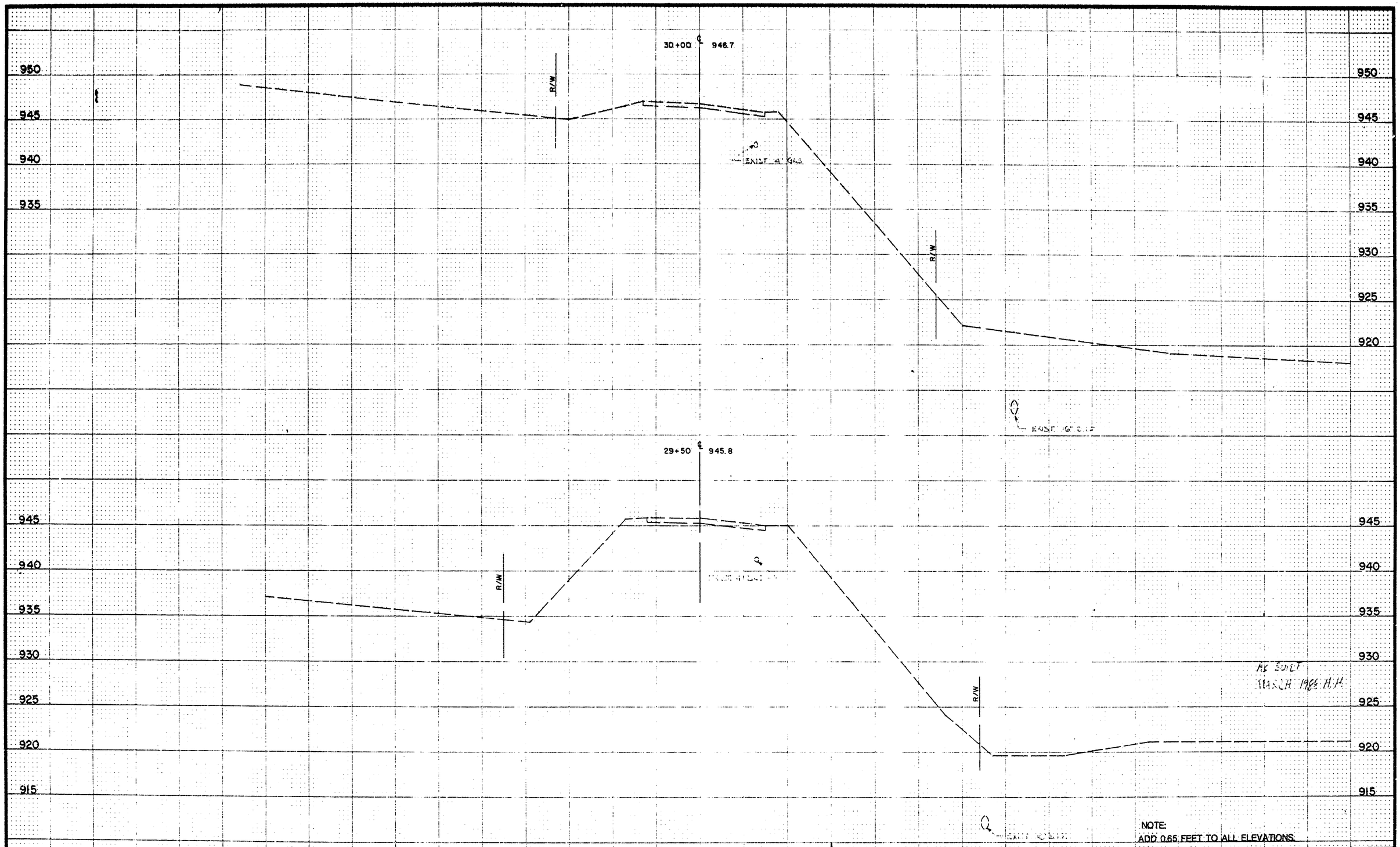
BASS LAKE ROAD

CROSS SECTIONS
28+00 TO 29+00

S.A.P. NO.

SHEET 36 OF 45

DESIGN FILE No. 14-8611



NOTE:
ADD 0.65 FEET TO ALL ELEVATIONS.

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the State of Minn. Statutes Sections 326.02 to 326.16.

John C. Kuhl

Date 3/19/87 Minn. Reg. No. 14960

BRW
Bennett Ringrose Wolsfeld Jarvis Gardner
612 370 0700
Minneapolis Minnesota

ORIGINAL DATE 3-3-87
REVISIONS
5/11/87 Add Note

DESIGN BY: MJM
DRAWN BY: JAS

SURVEY BK. NO. 8163 / 8222

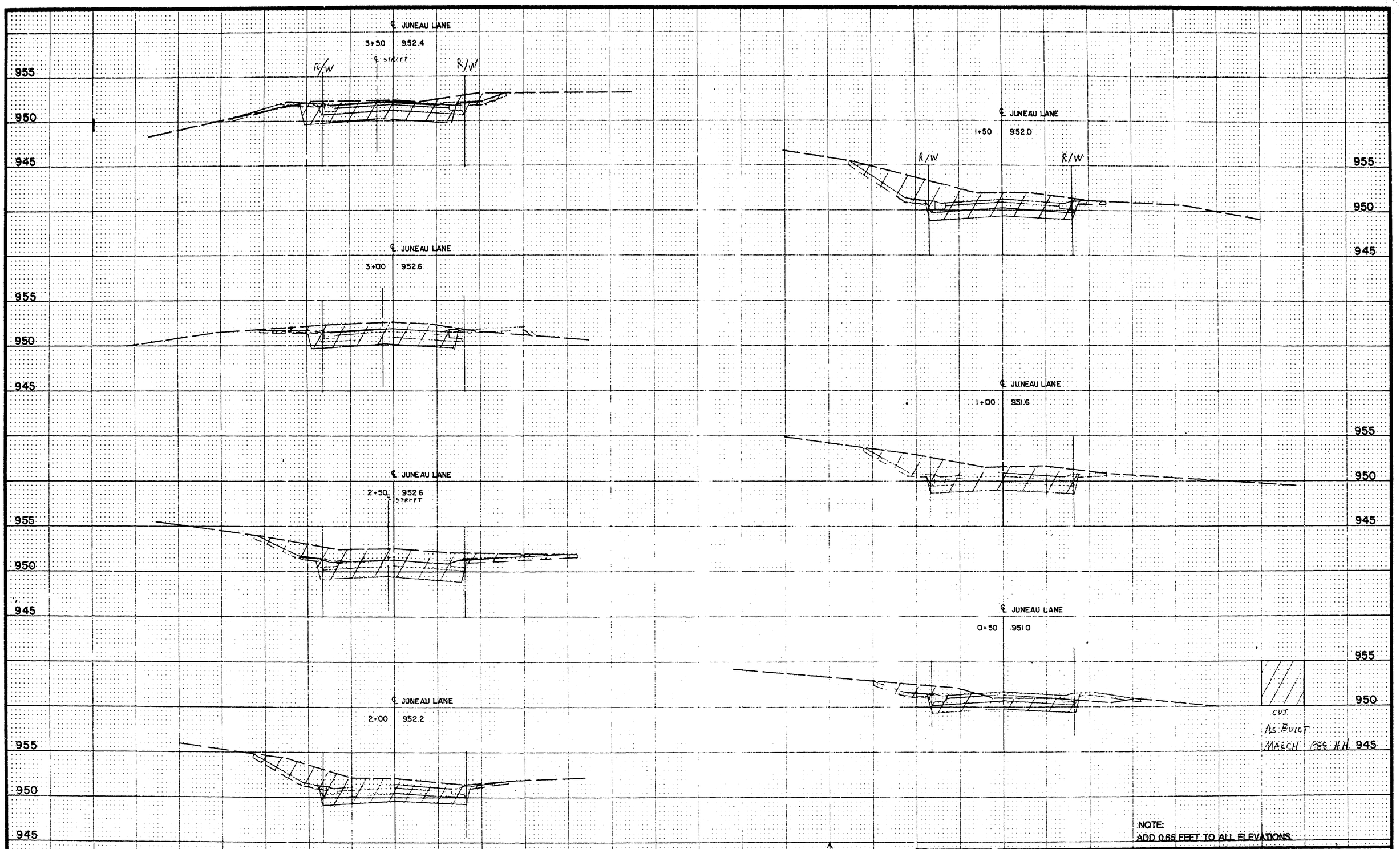
CITY OF MAPLE GROVE
PROJECT NO. 86-29

BASS LAKE RD.
CROSS SECTIONS
29+50 - 30+00

S.A.P. NO.

SHEET 37 OF 45

DESIGN FILE No. 14-8611



NOTE:
ADD 0.65 FEET TO ALL ELEVATIONS.

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the State of Minn. Statutes Sections 326.02 to 326.16.

John C. Bartel

Date 3/19/87 Minn. Reg. No. 14960

BRW
Bennett Ringrose Wolsfeld Jervis Gardner
612 370 9700
Minneapolis Minnesota

DESIGN BY: MJM
DRAWN BY: MJM

ORIGINAL DATE: 2-24-87
REVISIONS:
5/11/87 Add Note

SURVEY BK. NO. 8222

CITY OF MAPLE GROVE
PROJECT NO. 86-29

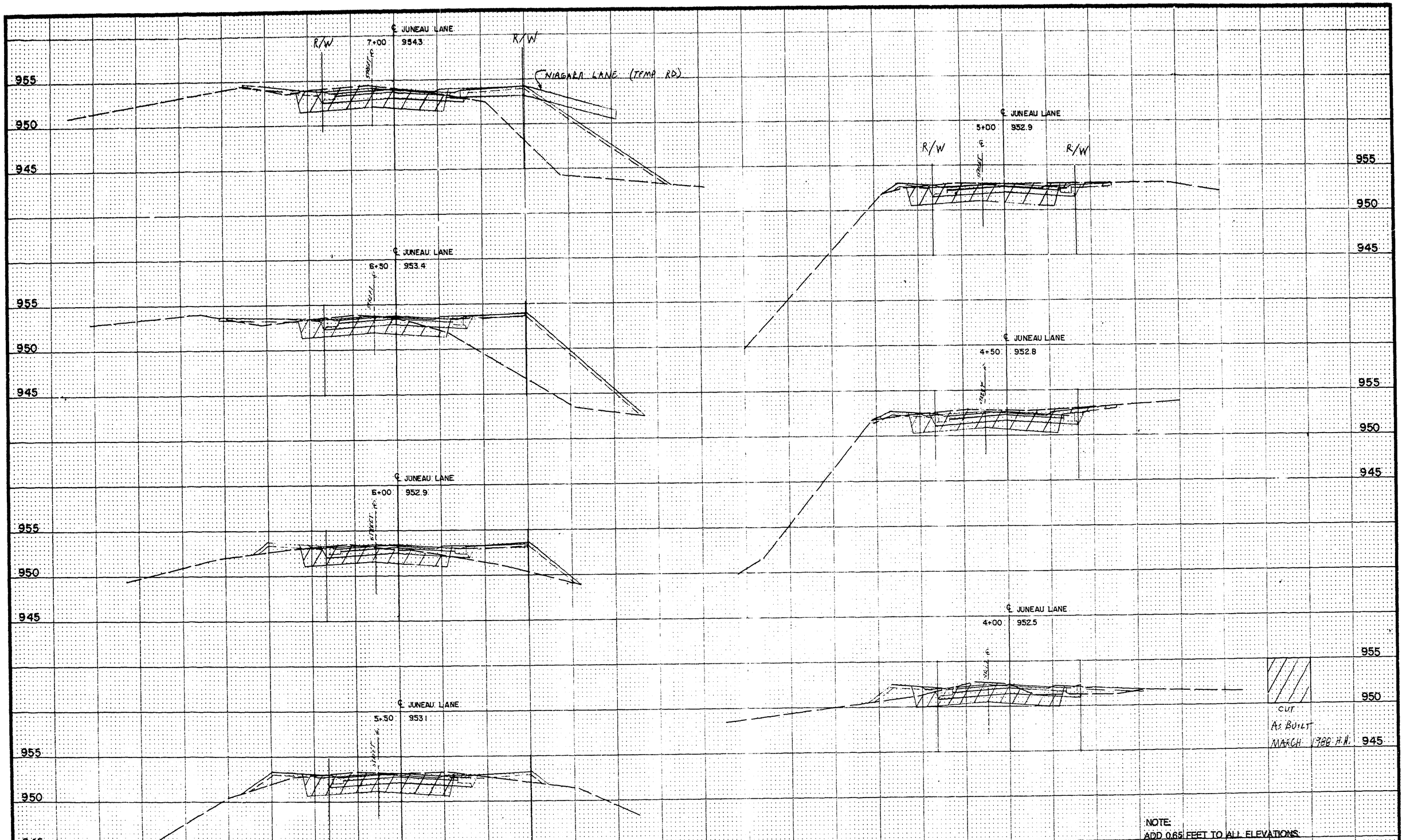
JUNEAU LANE

CROSS SECTIONS
0+50 - 3+50

S.A.P. NO.

SHEET 38 OF 45

DESIGN FILE No. 14-8611



NOTE:
ADD 0.65 FEET TO ALL ELEVATIONS.

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the State of Minn. Statutes Sections 326.02 to 326.16.

John C. Bartel

Date 3/19/87 Minn. Reg. No. 19960

BRW
Bennett, Bergfors, Worstell, Jarvis, Gardner
612 370 0700
Minneapolis, Minnesota

DESIGN BY: MJM
DRAWN BY: MJM

ORIGINAL DATE 2-24-87
REVISIONS
5/11/87 Add Note

SURVEY BK. NO. 8222

CITY OF MAPLE GROVE
PROJECT NO. 86-29

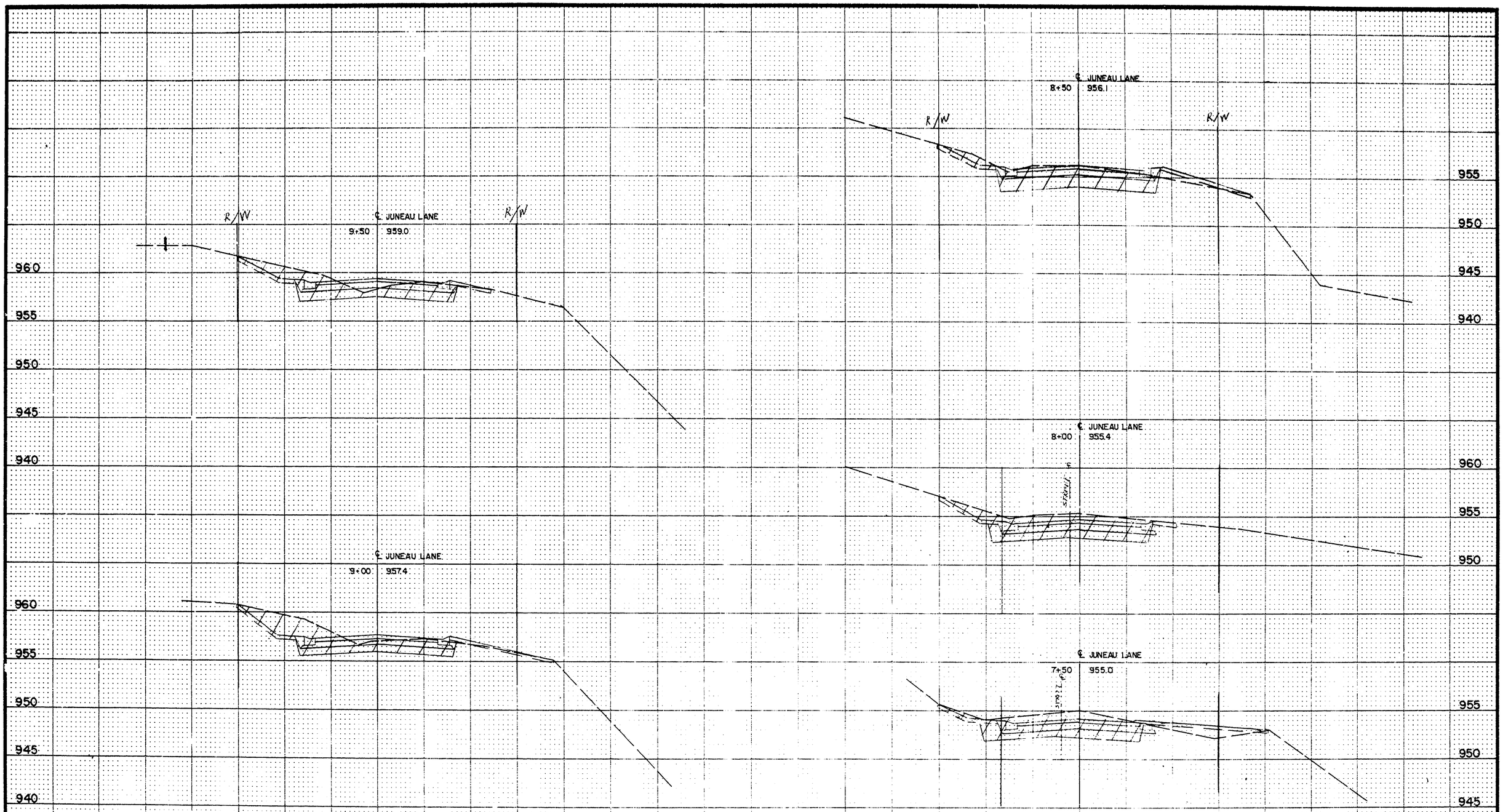
JUNEAU LANE

CROSS SECTIONS
4+00 - 7+00

S.A.P. NO.

SHEET 39 OF 45

DESIGN FILE No. 14-8611



NOTE:
ADD 0.65 FEET TO ALL ELEVATIONS.

5'
10'

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the State of Minn. Statutes Sections 326.02 to 326.16.

John C. Bartel

Date 3/19/87 Minn. Reg. No. 14960

BRW
Barnett Ringrose Wolstenholme Jarvis Gardner
612 370 0760
Minneapolis Minnesota

ORIGINAL DATE 2-26-87
REVISIONS
5/11/87 Add Note

DESIGN BY MJM
DRAWN BY MJM

SURVEY BK. NO. 8222

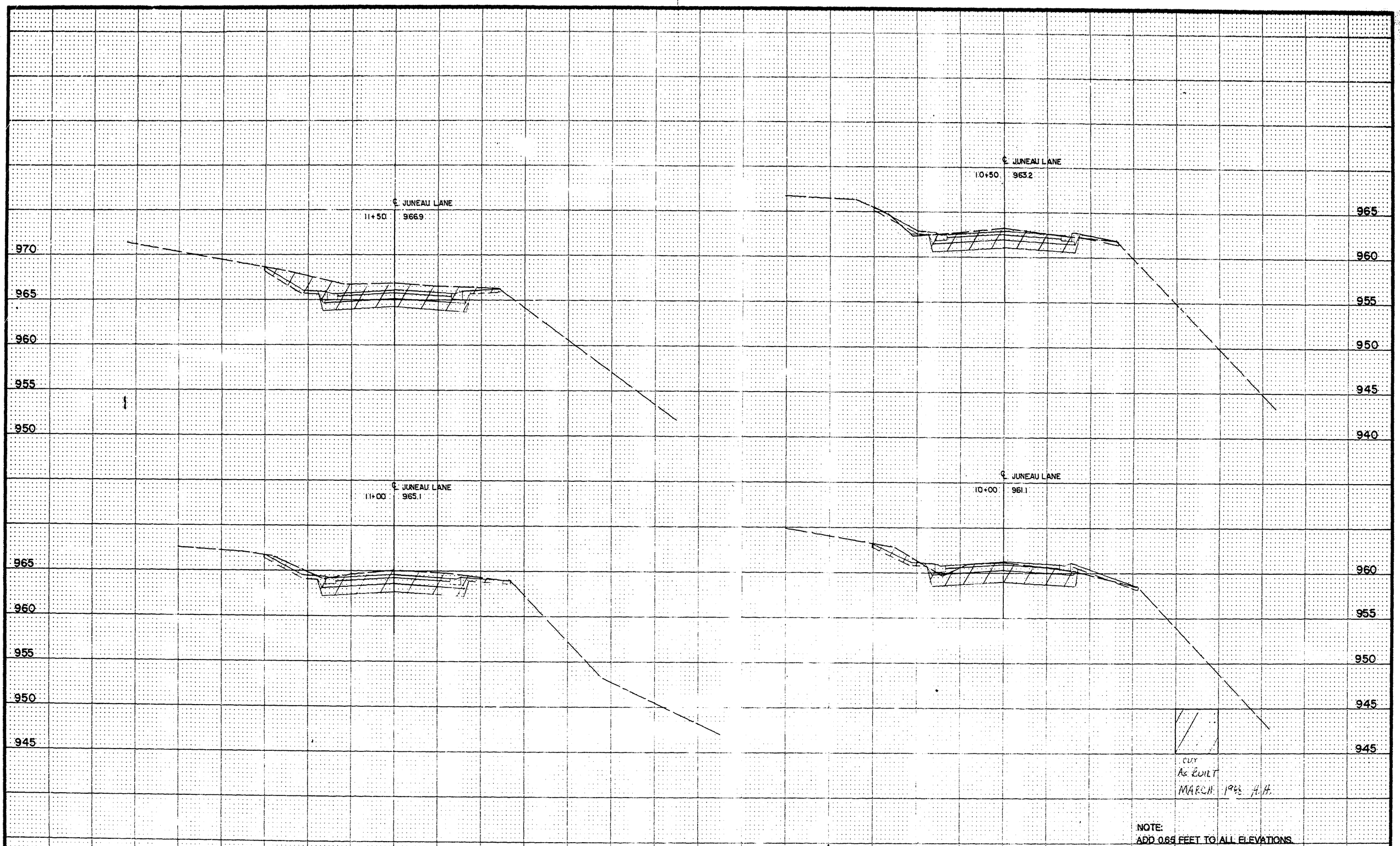
CITY OF MAPLE GROVE
PROJECT NO. 86-29

JUNEAU LANE
CROSS SECTIONS
7+50 - 9+50

S.A.P. NO.

SHEET 40 OF 45

DESIGN FILE No. 14-8611



NOTE:
ADD 0.65 FEET TO ALL ELEVATIONS.

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John C. Bartl

Date 3/19/87 Minn. Reg. No. 14960

BRW
Bennett, Ringrose, Woofield, Jervis, Gardner
612 370 0700
Minneapolis, Minnesota

DESIGN BY: MJM
DRAWN BY: MJM

ORIGINAL DATE: 2-26-87
REVISIONS:
5/11/87 Add Note

SURVEY BK. NO. 8222

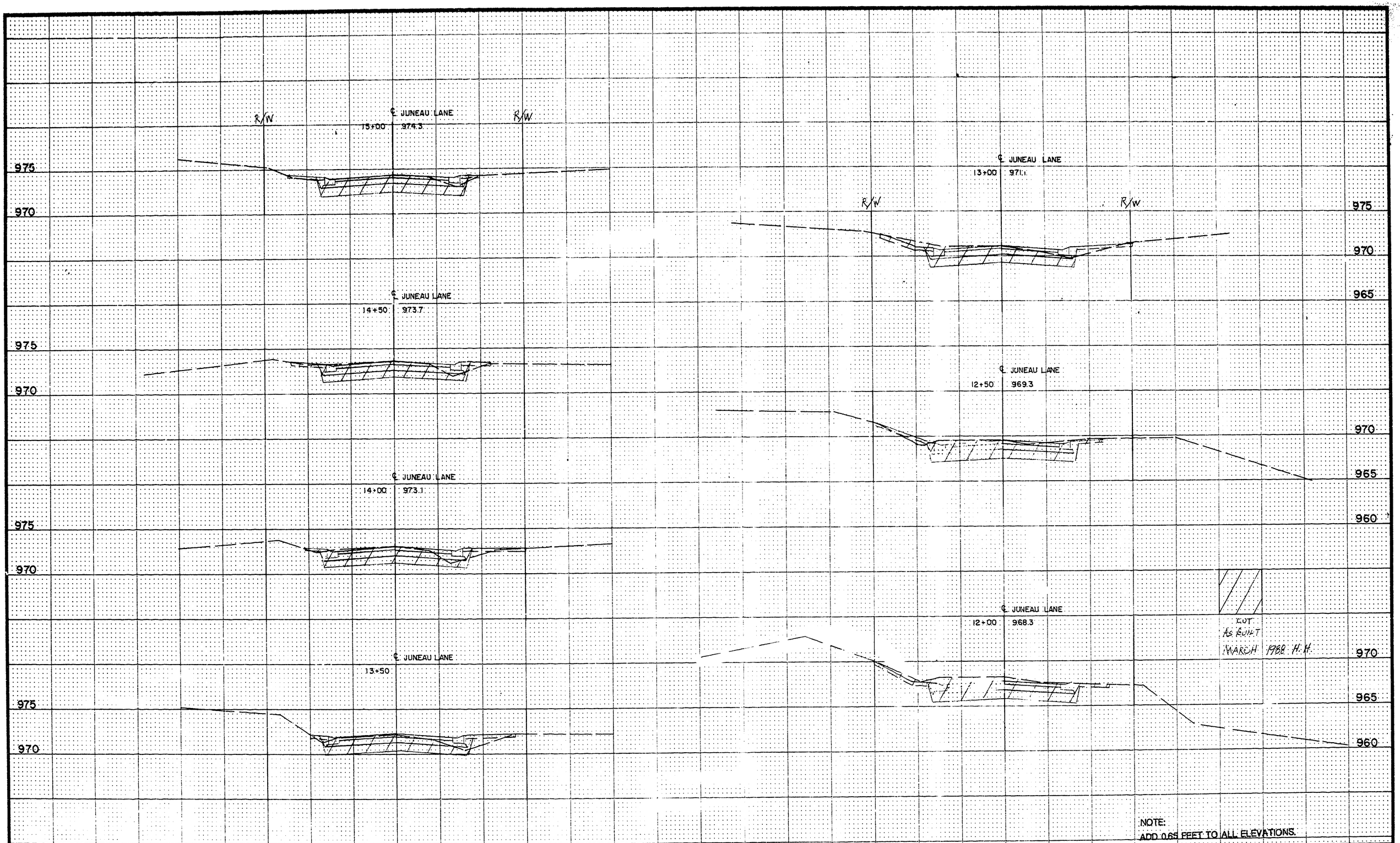
CITY OF MAPLE GROVE
PROJECT NO. 86-29

JUNEAU LANE
CROSS SECTIONS
10+00 - 11+50

S.A.P. NO.

SHEET 41 OF 45

DESIGN FILE No. 14-8611



NOTE:
ADD 0.65 FEET TO ALL ELEVATIONS.

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the State of Minn. Statutes Sections 326.02 to 326.16.

John C. Bateh

Date 3/9/87 Minn. Reg. No. 14960

BRW
Bennett, Ringrose, Wolstad, Jarns, Gardner
612 370 0700
Minneapolis, Minnesota

DESIGN BY: MJM
DRAWN BY: MJM

ORIGINAL DATE: 2-26-87
REVISIONS:
5/11/87 Add Note

SURVEY BK. NO. 8222

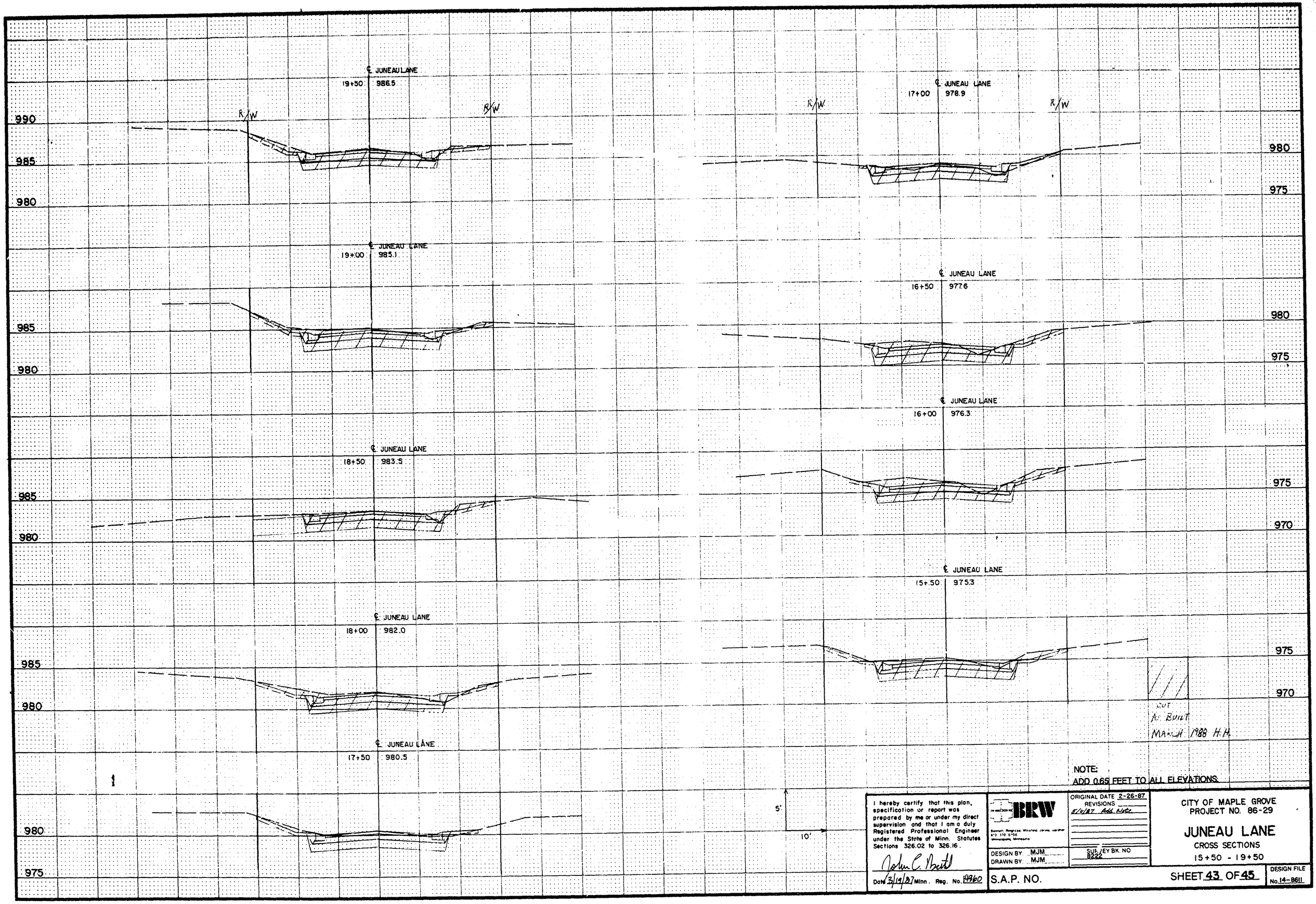
CITY OF MAPLE GROVE
PROJECT NO. 86-29

JUNEAU LANE
CROSS SECTIONS
12+00 - 15+00

S.A.P. NO.

SHEET 42 OF 45

DESIGN FILE No. 14-881L



NOTE:
ADD 0.65 FEET TO ALL ELEVATIONS.

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the State of Minn. Statutes Sections 326.02 to 326.16.

John C. Bartl

Date 3/19/87 Minn. Reg. No. 14960

BRW
Bennett, Ringrose, Wolstein, Jarvis, Gardner
612 370 0700
Minneapolis, Minnesota

DESIGN BY: MJM
DRAWN BY: MJM

ORIGINAL DATE 2-26-87
REVISIONS
5/4/87 Add Note

SURVEY BK. NO. 8222

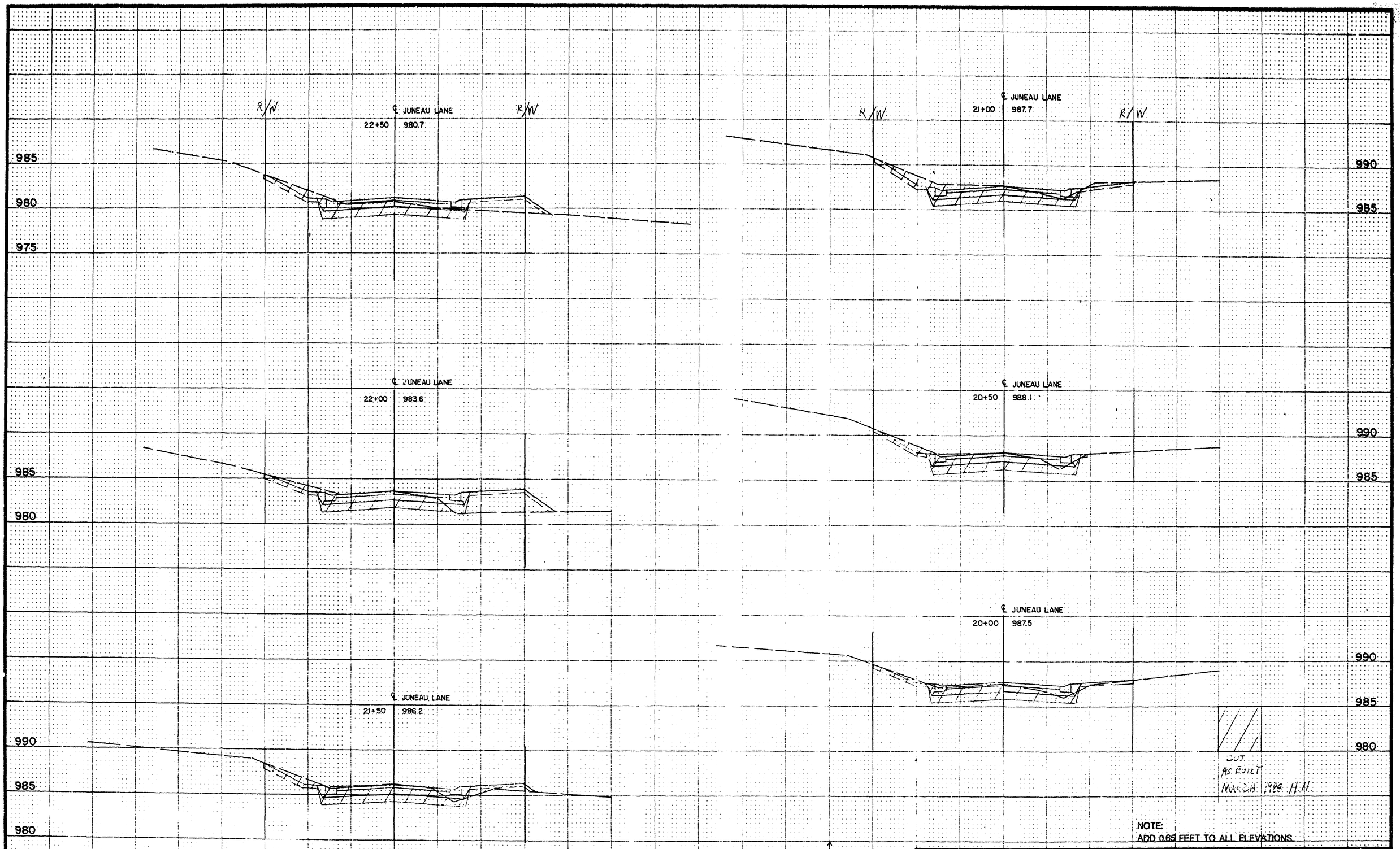
CITY OF MAPLE GROVE
PROJECT NO. 86-29

JUNEAU LANE
CROSS SECTIONS
15+50 - 19+50

S.A.P. NO.

SHEET 43 OF 45

DESIGN FILE No. 14-8611



NOTE:
ADD 0.65 FEET TO ALL ELEVATIONS

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the State of Minn. Statutes Sections 326.02 to 326.16.

John C. Batel

Date 3/19/87 Minn. Reg. No. 14960

BRW
Bennett Ringrose Wolstein Jensen Gardner
612 370 0700
Minneapolis, Minnesota

ORIGINAL DATE 2-26-87
REVISIONS
5/11/87 Add Note

DESIGN BY MJM
DRAWN BY MJM

SURVEY BK. NO 8222

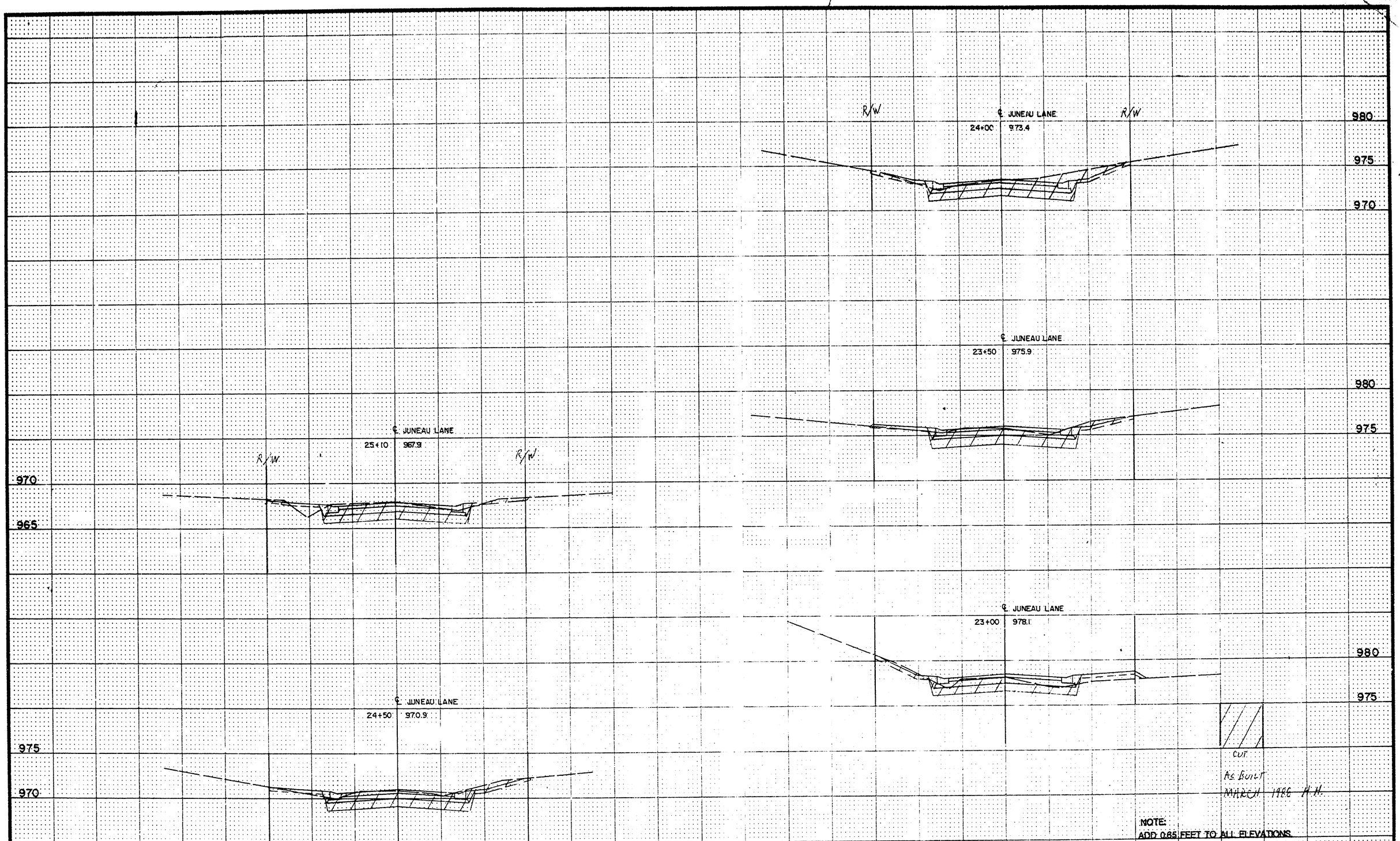
CITY OF MAPLE GROVE
PROJECT NO. 86-29

JUNEAU LANE
CROSS SECTIONS
20+00 - 22+50

S.A.P. NO.

SHEET 44 OF 45

DESIGN FILE No. 14-8611



NOTE:
ADD 0.65 FEET TO ALL ELEVATIONS.

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the State of Minn. Statutes Sections 326.02 to 326.16.

John C. Beatl

Date 3/19/87 Minn. Reg. No. 14960

BRW
Bennett, Ringrose, Wolstad, Jarvis, Gardner
612 370 0700
Minneapolis, Minnesota

DESIGN BY: MJM
DRAWN BY: MJM

ORIGINAL DATE 2-26-87
REVISIONS:
5/11/87 Add Note

SURVEY BK. NO. 8222

CITY OF MAPLE GROVE
PROJECT NO. 86-29

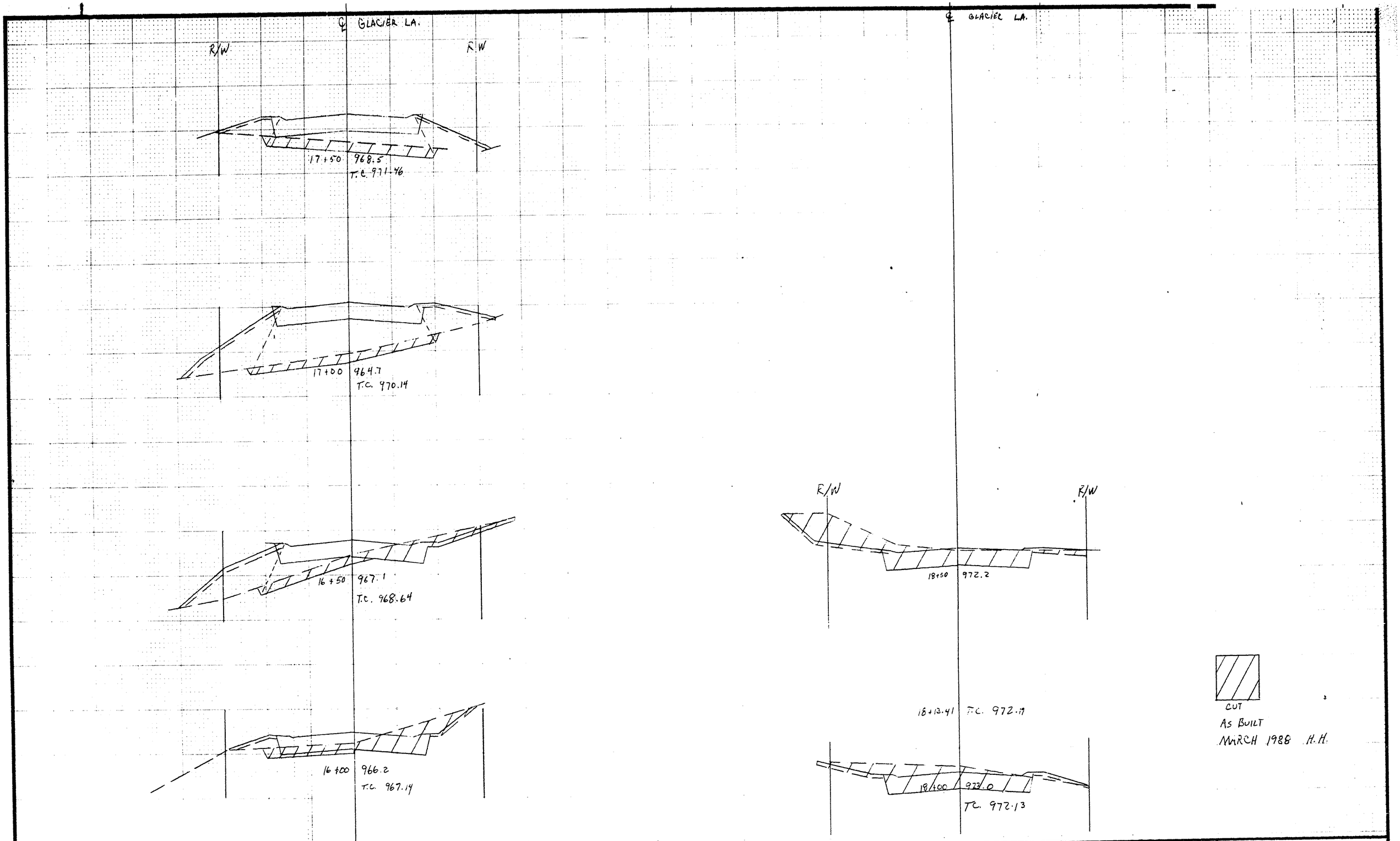
JUNEAU LANE

CROSS SECTIONS
23+00 - 25+10

S.A.P. NO.

SHEET 45 OF 45

DESIGN FILE No. 14-8611



I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the State of Minn Statutes Sections 326.02 to 326.16.

Date _____ Minn. Reg. No. _____

BRW

DESIGN BY
DRAWN BY

ORIGINAL DATE
REVISIONS

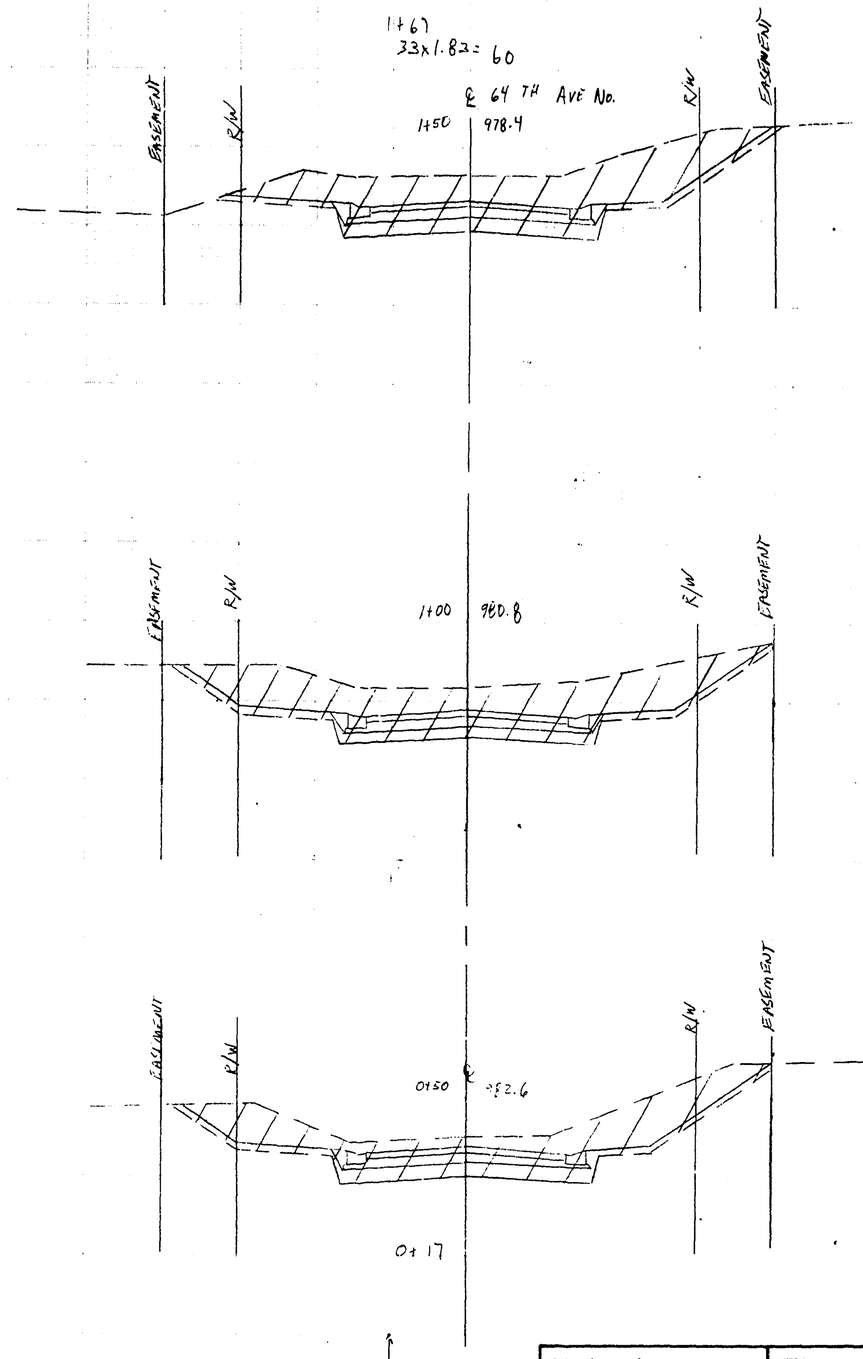
SURVEY BK NO

CITY OF MAPLE GROVE
TIMBER BAY ESTATES
CP 86-20
GLACIER LANE N.
16+00 - 18+50
(SO. OF 64TH AVE N)

S.A.P. NO.

SHEET 45A OF 45

DESIGN FILE No.



CUT

AS BUILT
MARCH 1988 H.H.

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Registered Professional Engineer under the State of Minn. Statutes Sections 326.02 to 326.16.

Date _____ Minn. Reg. No. _____

BRW

ORIGINAL DATE
REVISIONS

DESIGN BY
DRAWN BY

SURVEY BK NO

CITY OF MAPLE GROVE
PROJECT NO 86-29
64TH AVE N.
0+00 TO 1+50

S.A.P. NO.

SHEET 45 B OF 45

DESIGN FILE No. 14-8611