

SKYLINE, MINNESOTA

WASTEWATER COLLECTION AND TREATMENT

CITY PROJECT NUMBER 2003-001
 CITY OF MANKATO IMPROVEMENT NO. 02034
 2003

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- C1.02 TYPICAL SECTIONS AND STORM SEWER SCHEDULE
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- C8.01-C8.03 STANDARD DETAILS
- T1.01 PAVEMENT MARKINGS

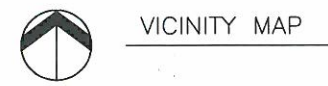
THIS PLAN SET CONTAINS 28 SHEETS

KENNETH WHITE
 ALAN HONERMAN
 HAL JOHNSON
 JOHN KRENZ
 BRIAN POWERS
 CAROLINE KAPOUN
 TREASURER
 WALLACE GATES

MAYOR
 COUNCIL MEMBER
 COUNCIL MEMBER
 COUNCIL MEMBER
 COUNCIL MEMBER
 CLERK
 LON WHITEHEAD
 ATTORNEY

RECORD PLAN
 CONTRACTOR: SOUTHERN
 MINNESOTA CONSTRUCTION
 CO., INC.

*Jessica/ISG
 507-327-5758*



VICINITY MAP

BHA SURVEY
 DRAWN
 DESIGNED
 APPROVED
 DATE
 PROJECT NO. 1365-02-101

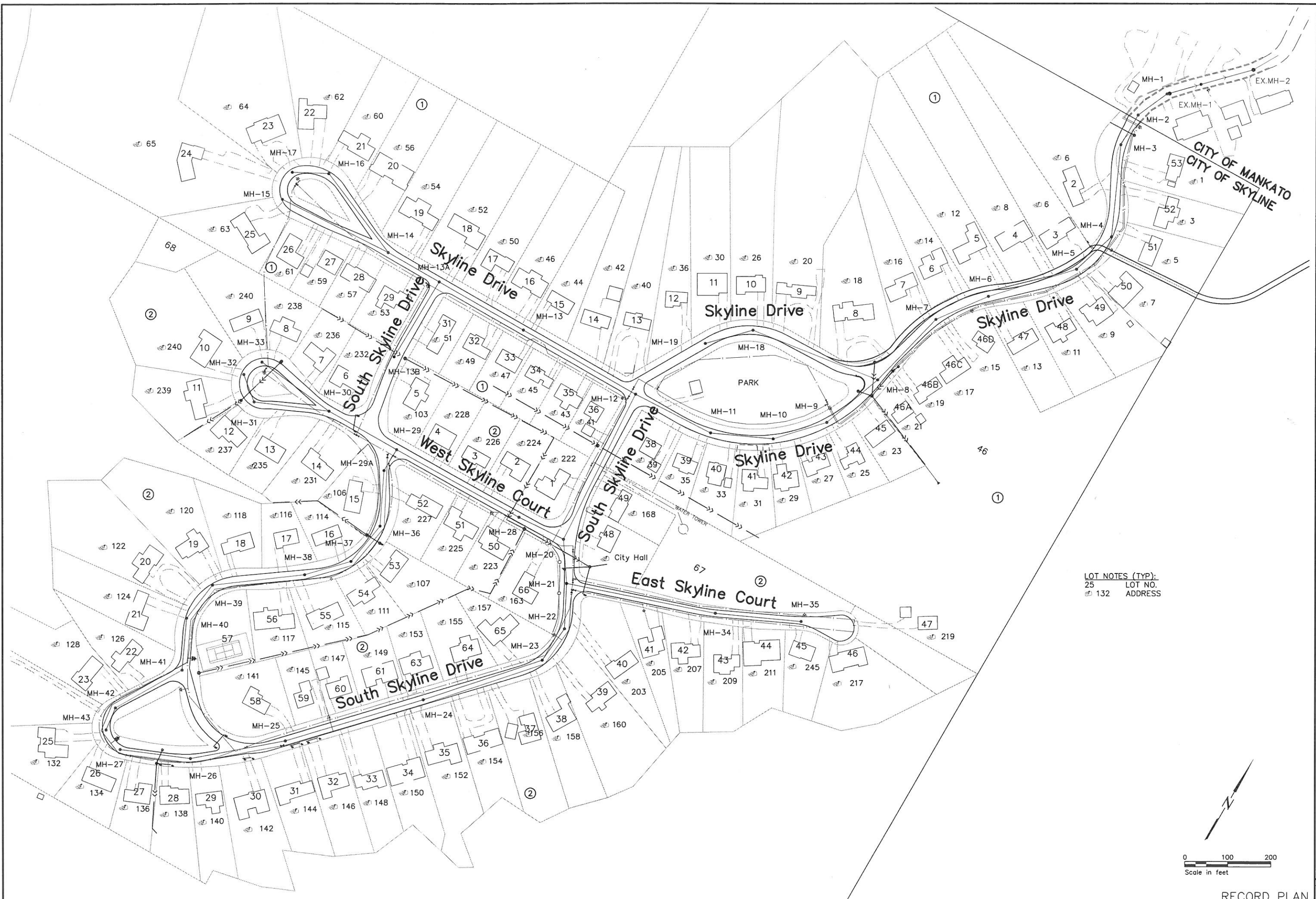
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: MICHAEL S. NILL
 SIGNATURE: *[Signature]*
 DATE: 12/19/2003
 LIC. NO.: 28914

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Rosenie
Anderlik &
Associates
 Engineers & Architects
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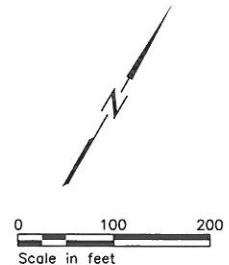
St. Paul Office
 2335 West Highway 36
 St. Paul, MN 55113
 Phone: 651-636-4600
 Fax: 651-636-1311

SKYLINE, MINNESOTA
 WASTEWATER COLLECTION AND TREATMENT
 TITLE SHEET

R:136502101G101
 SHEET NUMBER
G1.01



LOT NOTES (TYP):
 25 LOT NO.
 132 ADDRESS



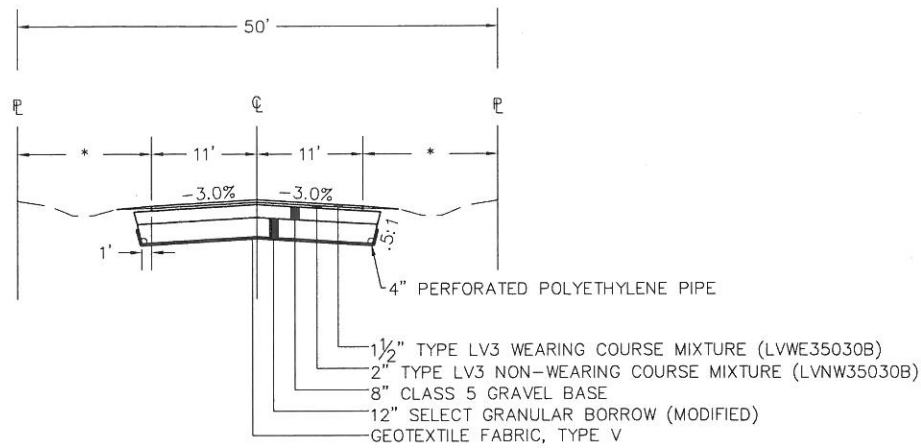
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 PRINT NAME: Michel S. Nil
 SIGNATURE: _____
 DATE: 12/19/2007 LIC. NO.: 26914

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 Fax: 651-636-1311

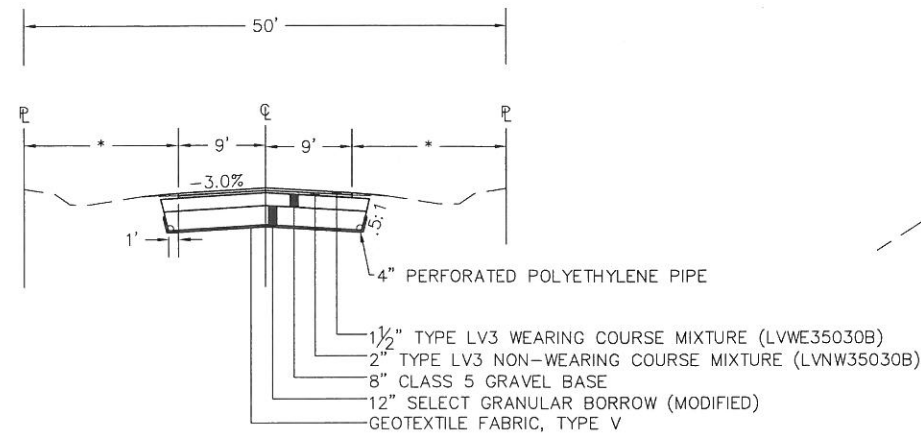


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 Associates**
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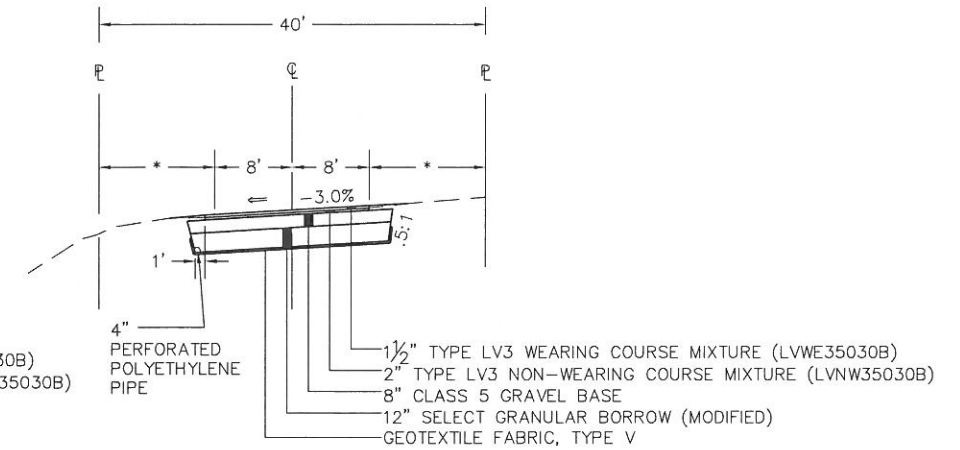
SKYLINE, MINNESOTA
 WASTEWATER COLLECTION AND TREATMENT
 IMPROVEMENTS
 LOCATION PLAN



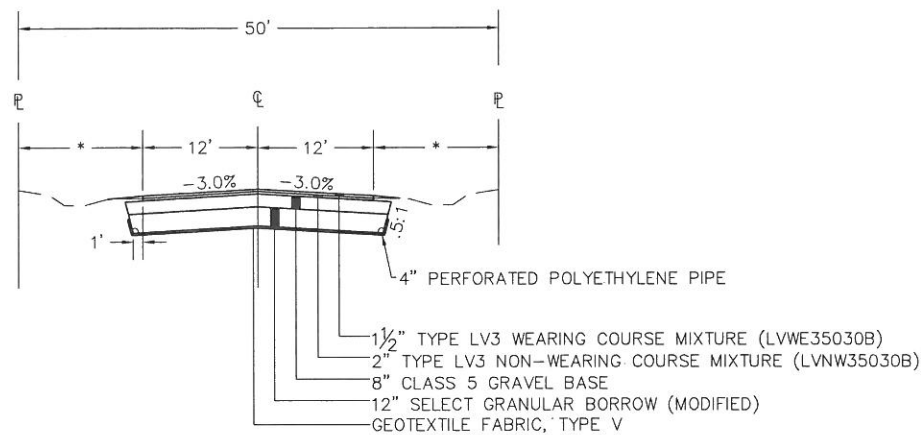
TYPICAL SECTION



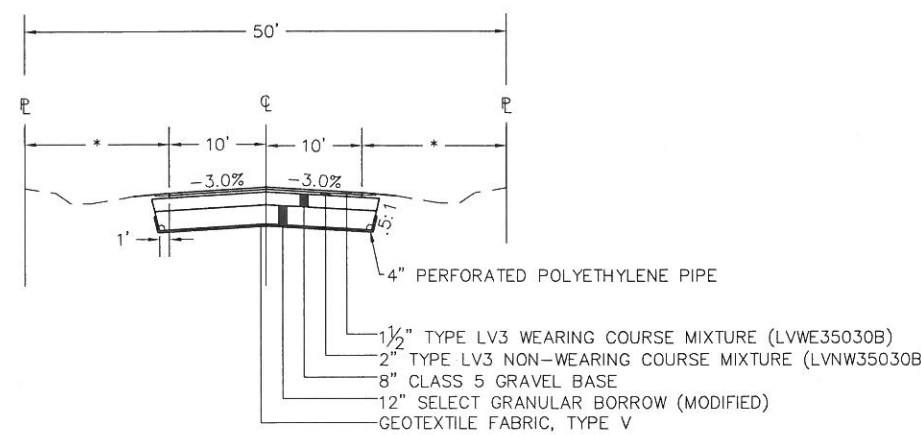
TYPICAL SECTION
CUL-DE-SACS



TYPICAL SECTION
EAST SKYLINE COURT



TYPICAL SECTION
SKYLINE DRIVE
(NORTH OF PARK)



TYPICAL SECTION
SKYLINE DRIVE
(AROUND PARK)

* NOTE:
CENTERLINE SHOWN IS THE DESIGN STREET CENTERLINE.
NEW STREET CENTERLINES ARE TO MATCH THE EXISTING STREET CENTERLINE MORE OR LESS.
EXISTING STREETS ARE NOT NECESSARILY CENTERED IN THE RIGHT-OF-WAY

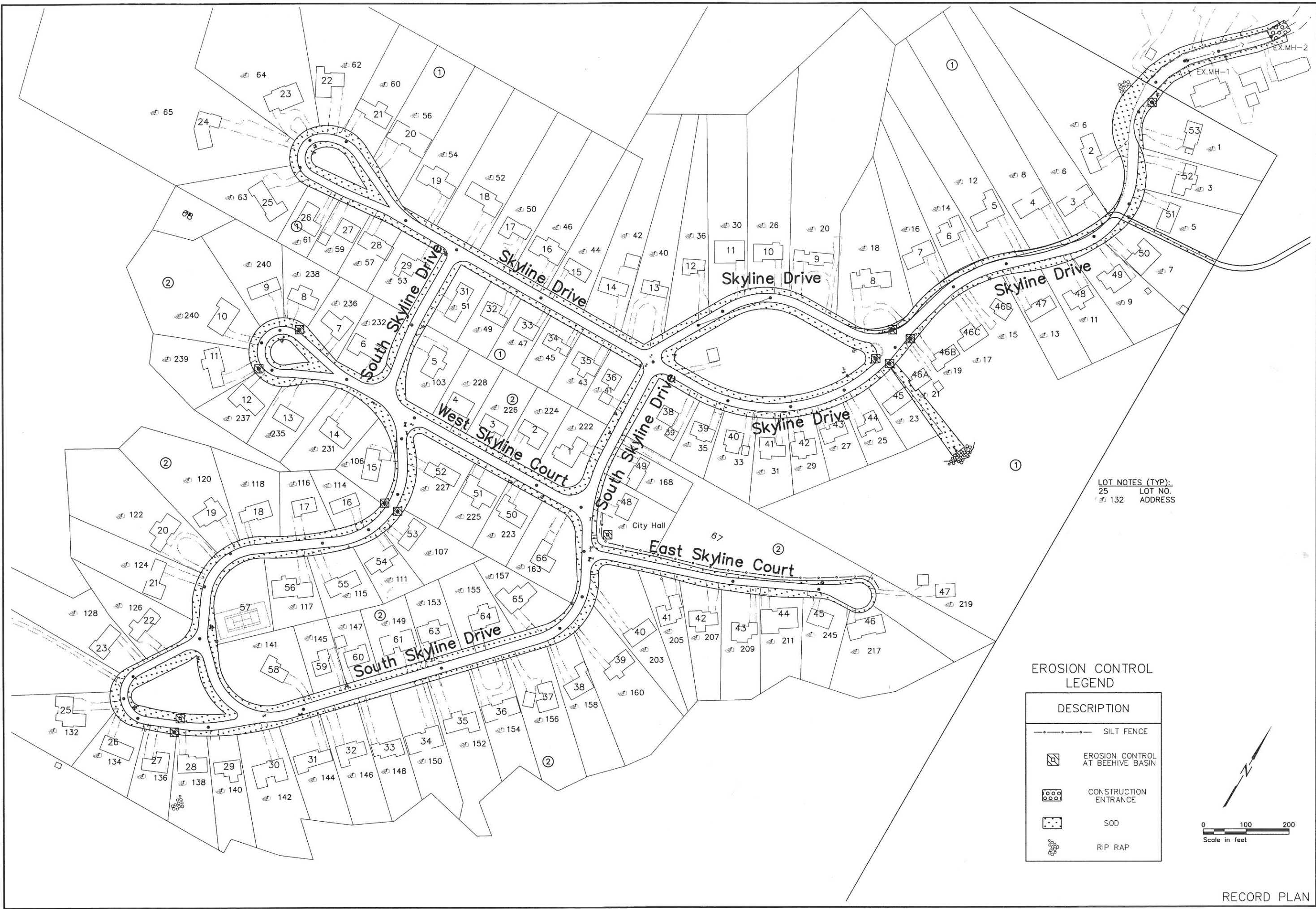
STORM SEWER SCHEDULE				
STRUCTURE	TYPE	CASTING	DIA.	SPECIAL COMMENTS
SS-1	CBMH	R1642 R2682	4'	BUILD OVER EXISTING PIPE, TYPE C GRATE
SS-2	CB	R4342 R4340	27"	BUILD OVER EXISTING PIPE
SS-3	CB	R4342 R4340	27"	BUILD OVER EXISTING PIPE
SS-4	CB	R4342 R4340	27"	BUILD OVER EXISTING PIPE
SS-5	CBMH	R4342 R4340	4'	
SS-6	CBMH	R4342 R4340	4'	BUILD OVER EXISTING PIPE
SS-7	CB	R4342 R4340	27"	
SS-8	CB	R4342 R4340	27"	
SS-9	CB	R4342 R4340	27"	
SS-10	CB	R4342 R4340	27"	

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
PRINT NAME: MICHAEL S. NIEL
SIGNATURE: [Signature]
DATE: 12/19/2006
L.C. NO.: 26914

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2335 West Highway 36
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Phone: 651-636-4600
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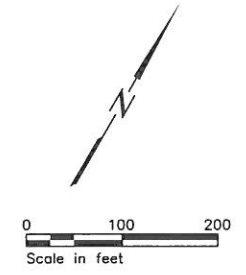
SKYLINE, MINNESOTA
WASTEWATER COLLECTION AND TREATMENT
IMPROVEMENTS
TYPICAL SECTIONS AND STORM SEWER SCHEDULE



LOT NOTES (TYP):
 25 LOT NO.
 132 ADDRESS

EROSION CONTROL LEGEND

DESCRIPTION	
	SILT FENCE
	EROSION CONTROL AT BEEHIVE BASIN
	CONSTRUCTION ENTRANCE
	SOD
	RIP RAP



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 PRINT NAME: Michael S. Nill
 SIGNATURE:
 DATE: 12/19/2009 LIC. NO. 26914

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 2335 West Highway 36
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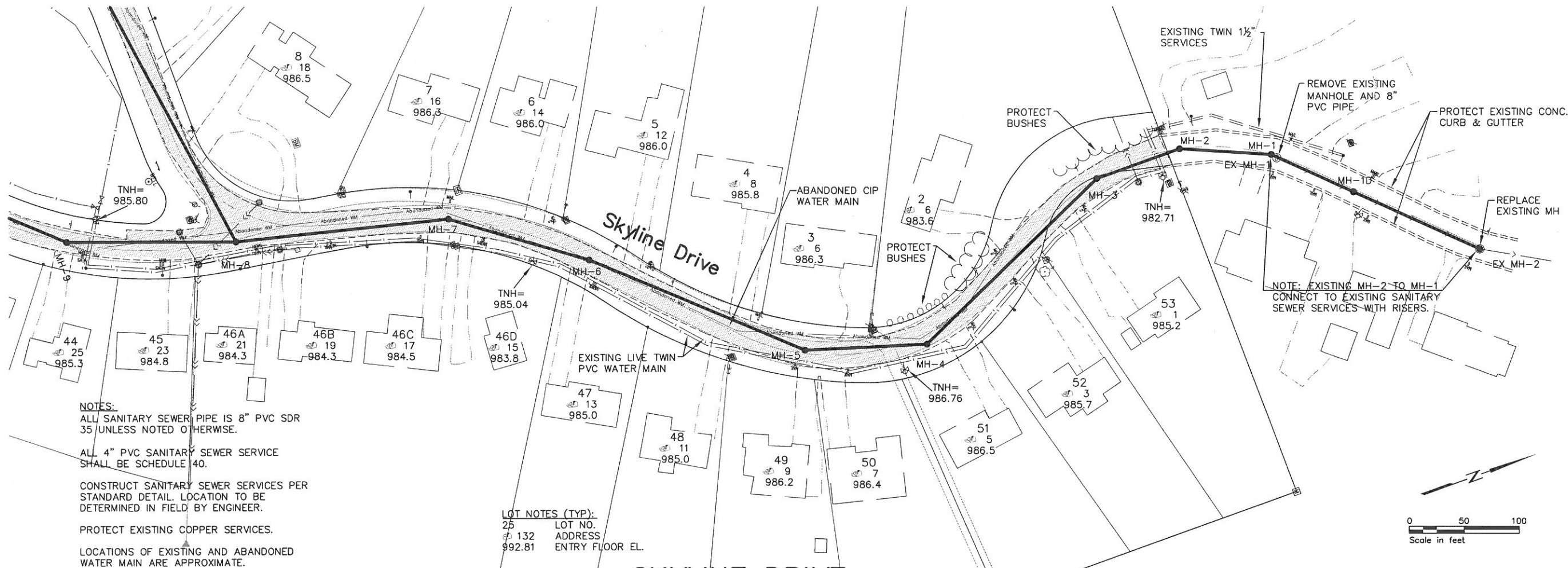


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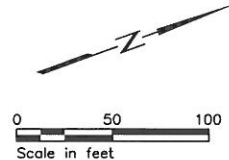
SKYLINE, MINNESOTA
 WASTEWATER COLLECTION AND TREATMENT
 IMPROVEMENTS
 EROSION CONTROL PLAN

SEE SHEET C4.03

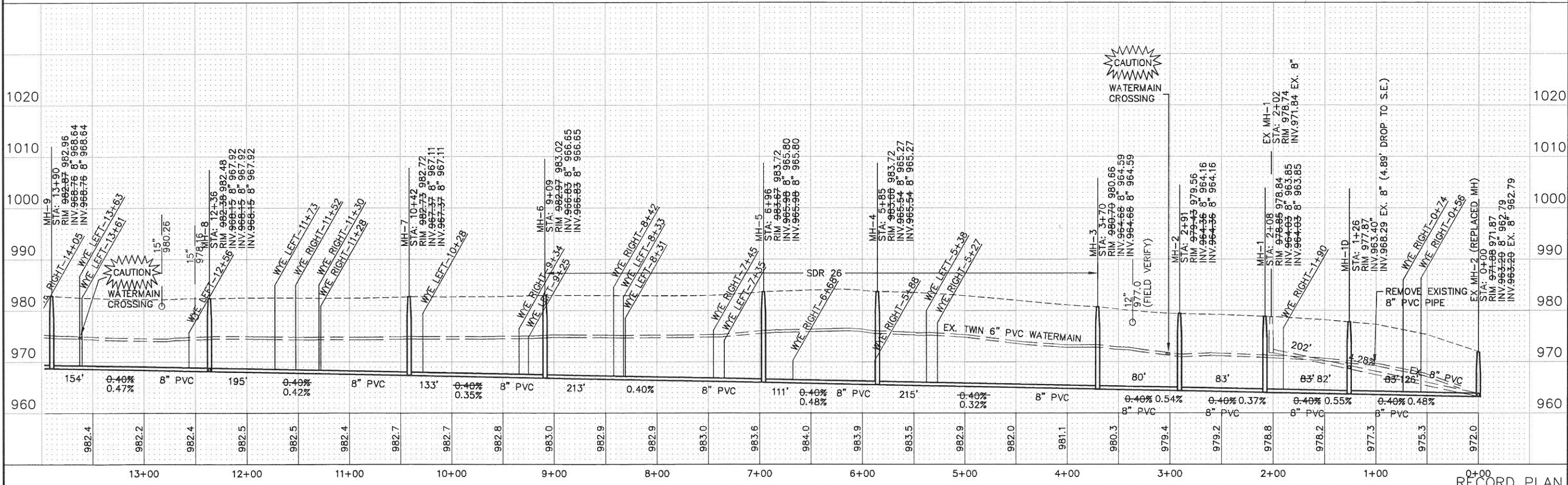
SEE SHEET C4.02



NOTES:
 ALL SANITARY SEWER PIPE IS 8" PVC SDR 35 UNLESS NOTED OTHERWISE.
 ALL 4" PVC SANITARY SEWER SERVICE SHALL BE SCHEDULE 40.
 CONSTRUCT SANITARY SEWER SERVICES PER STANDARD DETAIL. LOCATION TO BE DETERMINED IN FIELD BY ENGINEER.
 PROTECT EXISTING COPPER SERVICES.
 LOCATIONS OF EXISTING AND ABANDONED WATER MAIN ARE APPROXIMATE.



SKYLINE DRIVE



HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: MICHAEL S. NILL
 SIGNATURE: [Signature]
 DATE: 12/19/2006
 LIC. NO.: 26914

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SKYLINE, MINNESOTA
 WASTEWATER COLLECTION AND TREATMENT
 IMPROVEMENTS
 SANITARY SEWER

R:136502101C401
 SHEET NUMBER
C4.01

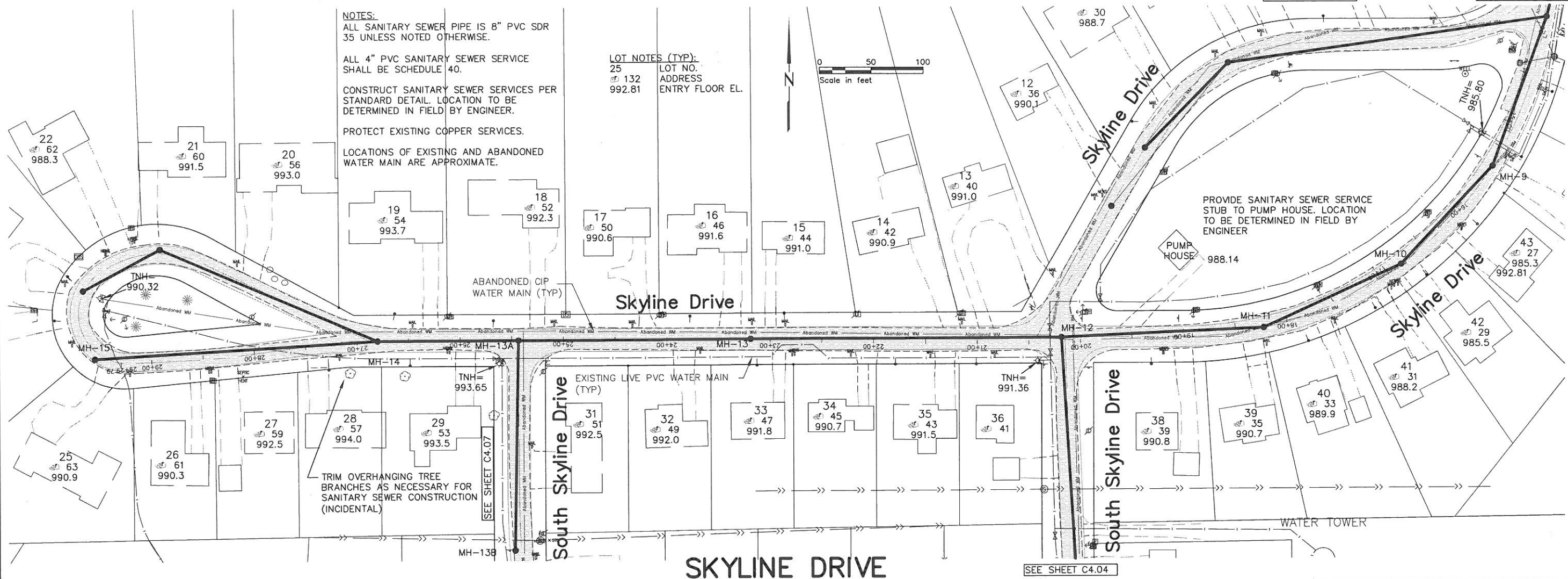
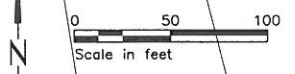
RECORD PLAN

SEE SHEET C4.03

SEE SHEET C4.01

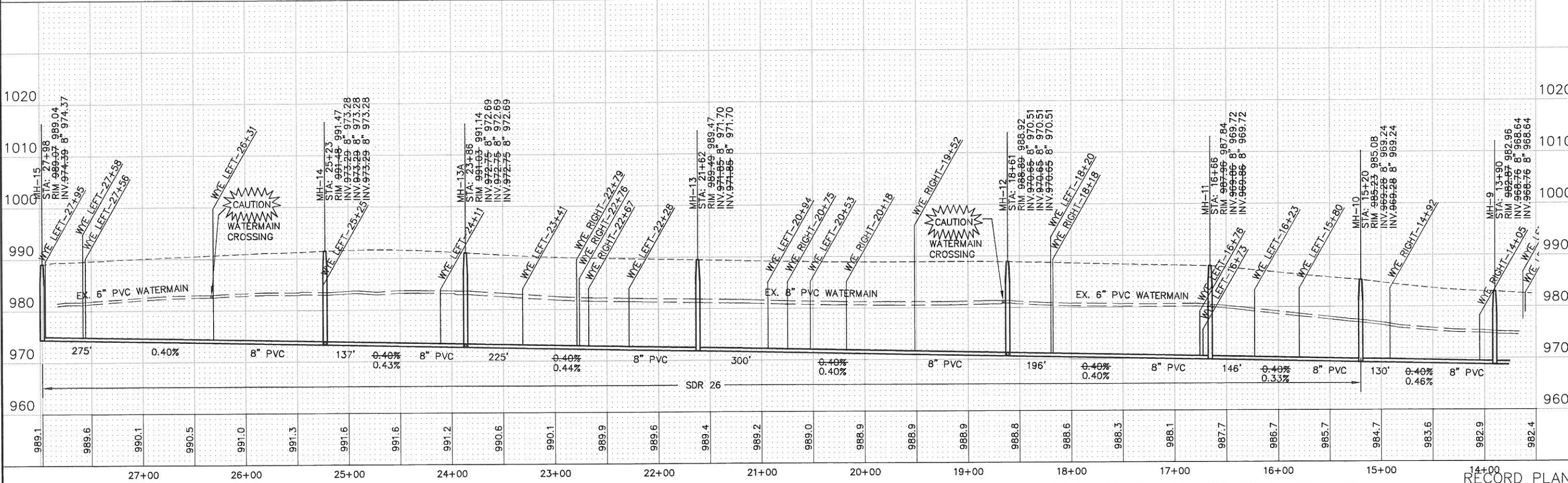
NOTES:
 ALL SANITARY SEWER PIPE IS 8" PVC SDR 35 UNLESS NOTED OTHERWISE.
 ALL 4" PVC SANITARY SEWER SERVICE SHALL BE SCHEDULE 40.
 CONSTRUCT SANITARY SEWER SERVICES PER STANDARD DETAIL. LOCATION TO BE DETERMINED IN FIELD BY ENGINEER.
 PROTECT EXISTING COPPER SERVICES.
 LOCATIONS OF EXISTING AND ABANDONED WATER MAIN ARE APPROXIMATE.

LOT NOTES (TYP):
 LOT NO.
 ADDRESS
 ENTRY FLOOR EL.



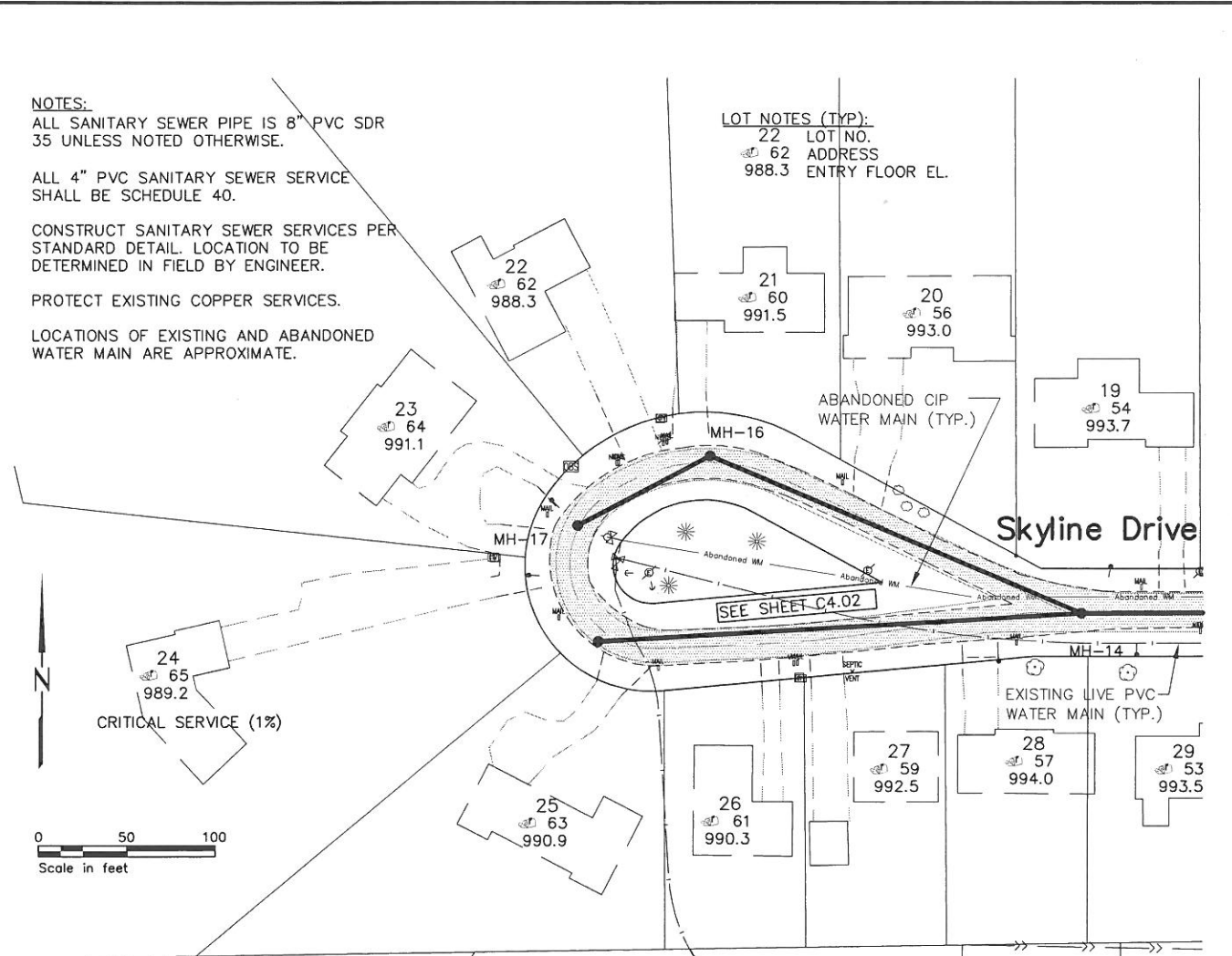
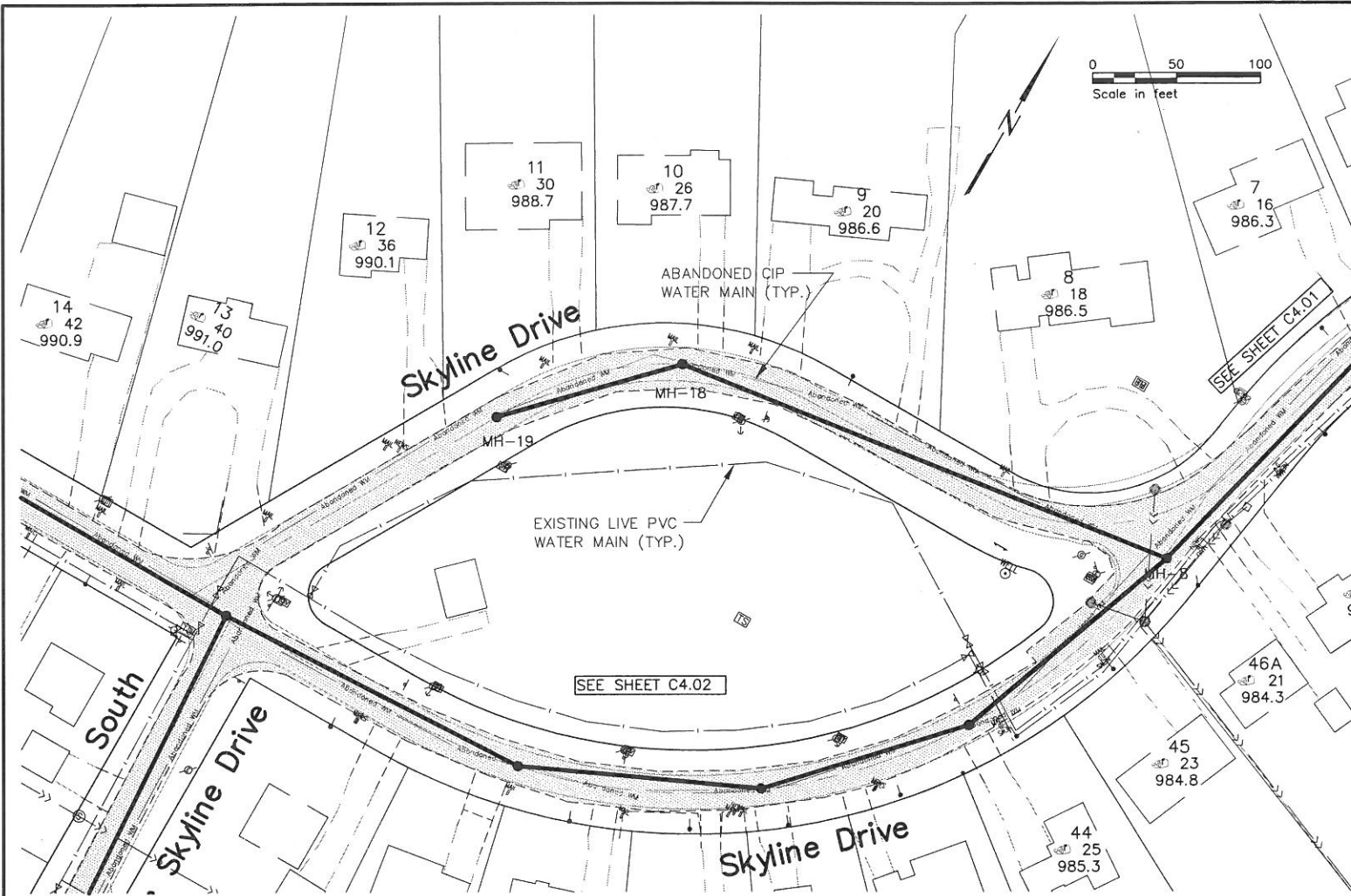
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 PRINT NAME: Michael S. Hill
 SIGNATURE: [Signature]
 DATE: 12/19/2006
 LIC. NO.: 26914
 PROJ. NO.: 1385-02-101

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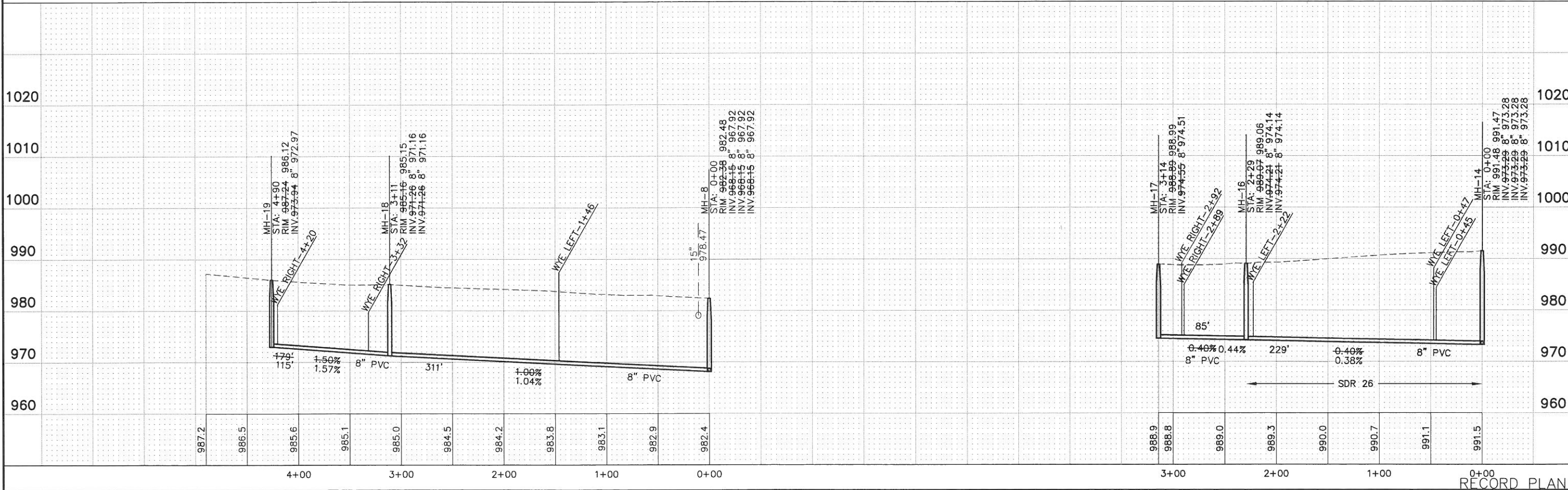


SKYLINE, MINNESOTA
 WASTEWATER COLLECTION AND TREATMENT
 IMPROVEMENTS
 SANITARY SEWER

R:136502101C401
 SHEET NUMBER
C4.02



SKYLINE DRIVE



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 PRINT NAME: Michael S. Hill
 SIGNATURE: [Signature]
 DATE: 12/18/2009
 LIC. NO.: 26914

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SKYLINE, MINNESOTA
 WASTEWATER COLLECTION AND TREATMENT
 IMPROVEMENTS
 SANITARY SEWER

R:136502101C402
 SHEET NUMBER
C4.03

RECORD PLAN

NOTES:
 ALL WATER MAIN IS PVC, DR 18 AND SHALL HAVE 7.5 FOOT MINIMUM COVER UNLESS NOTED OTHERWISE.

ALL SANITARY SEWER PIPE IS 8" PVC SDR 35 UNLESS NOTED OTHERWISE.

ALL 4" PVC SANITARY SEWER SERVICE SHALL BE SCHEDULE 40.

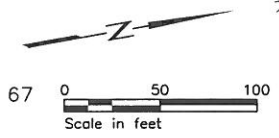
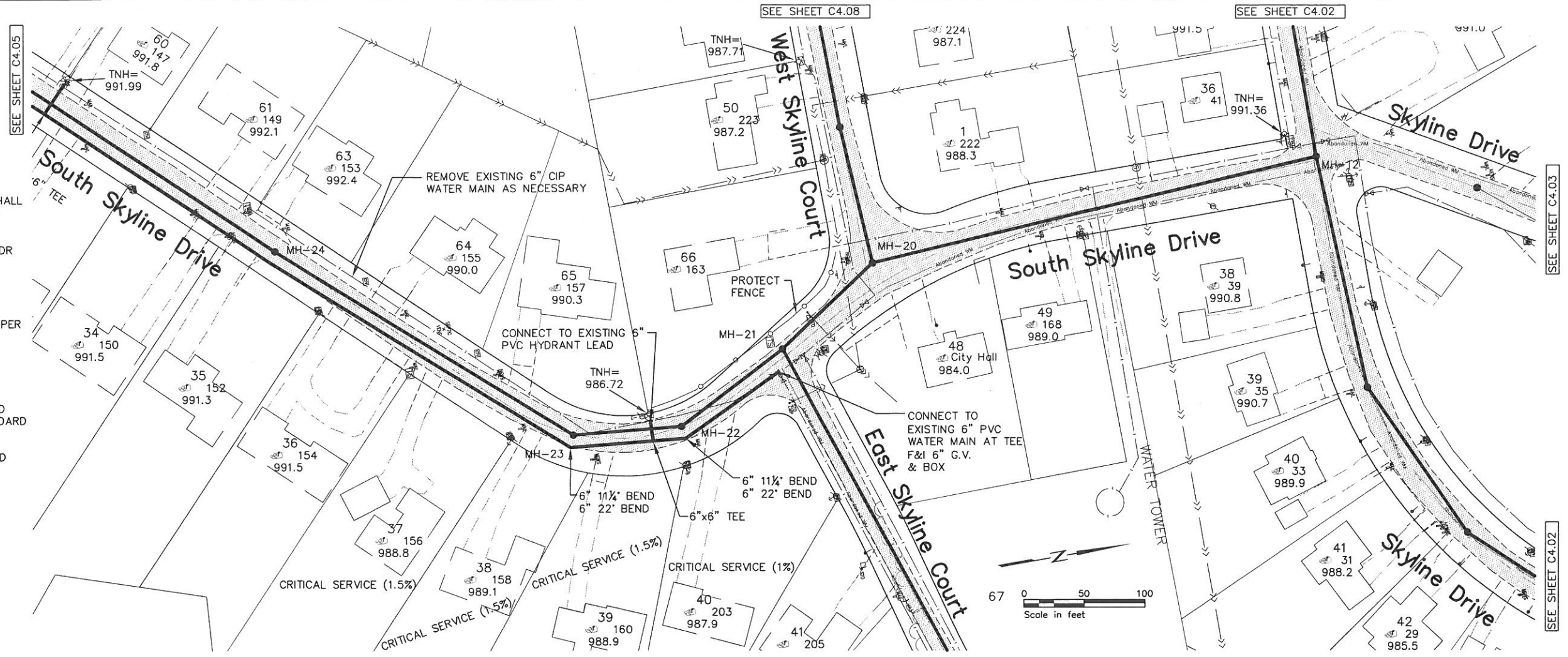
CONSTRUCT SANITARY SEWER SERVICES PER STANDARD DETAIL. LOCATION TO BE DETERMINED IN FIELD BY ENGINEER.

PROTECT EXISTING COPPER SERVICES.

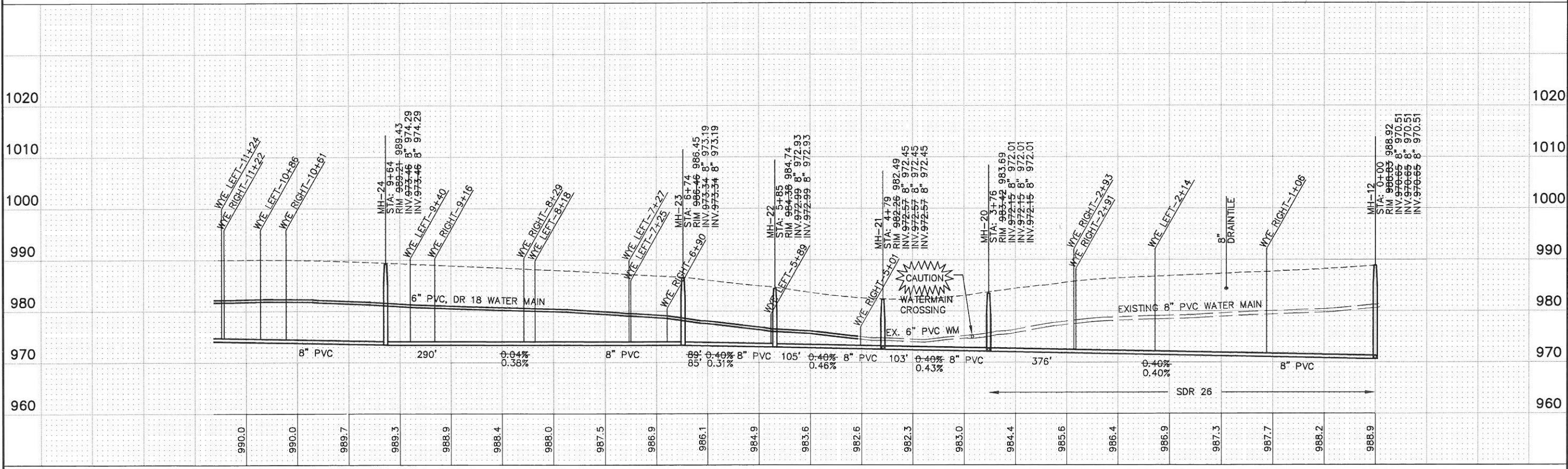
WHERE NEW WATER MAIN IS INSTALLED, ABANDON EXISTING CIP WATER MAIN AND CONSTRUCT WATER SERVICES PER STANDARD DETAIL.

LOCATIONS OF EXISTING AND ABANDONED WATER MAIN ARE APPROXIMATE.

LOT NOTES (TYP):
 34 LOT NO.
 150 ADDRESS
 991.5 ENTRY FLOOR EL.



SOUTH SKYLINE DRIVE



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT SURVEY WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: Michael S. Hill
 SIGNATURE: [Signature]
 DATE: 12/19/2006
 LIC. NO.: 26814
 PROJ. NO. 1385-02-101

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SKYLINE, MINNESOTA
 WASTEWATER COLLECTION AND TREATMENT
 IMPROVEMENTS
 SANITARY SEWER & WATER MAIN

NOTES:
 ALL WATER MAIN IS PVC, DR 18 AND SHALL HAVE 7.5 FOOT MINIMUM COVER UNLESS NOTED OTHERWISE.

ALL SANITARY SEWER PIPE IS 8" PVC SDR 35 UNLESS NOTED OTHERWISE.

ALL 4" PVC SANITARY SEWER SERVICE SHALL BE SCHEDULE 40.

CONSTRUCT SANITARY SEWER SERVICES PER STANDARD DETAIL. LOCATION TO BE DETERMINED IN FIELD BY ENGINEER.

PROTECT EXISTING COPPER SERVICES.

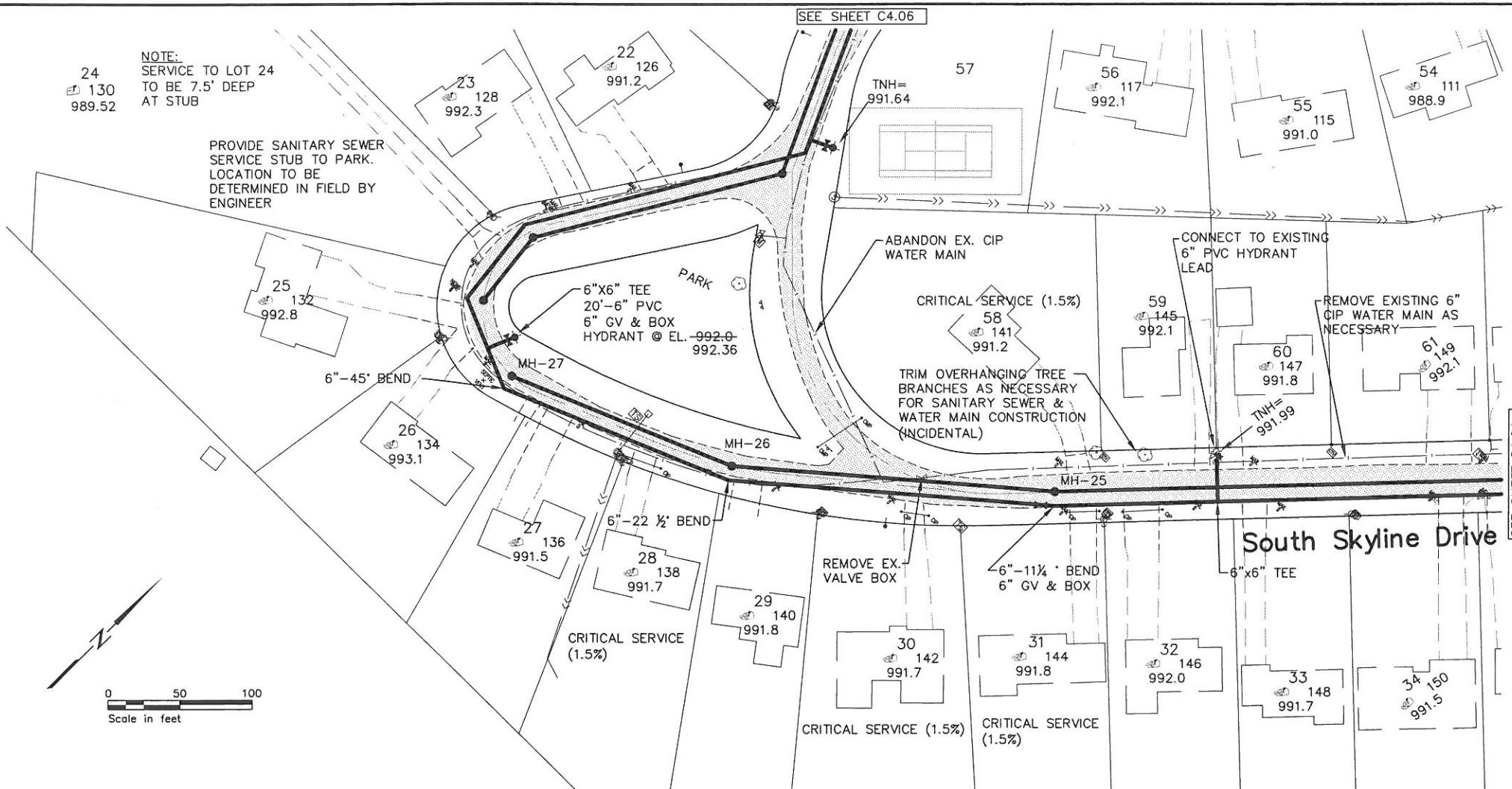
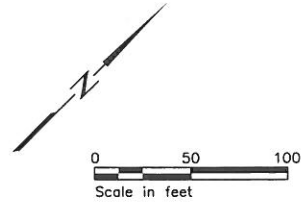
WHERE NEW WATER MAIN IS INSTALLED, ABANDON EX. CIP WATER MAIN AND CONSTRUCT WATER SERVICES PER STANDARD DETAIL.

LOCATIONS OF EXISTING AND ABANDONED WATER MAIN ARE APPROXIMATE.

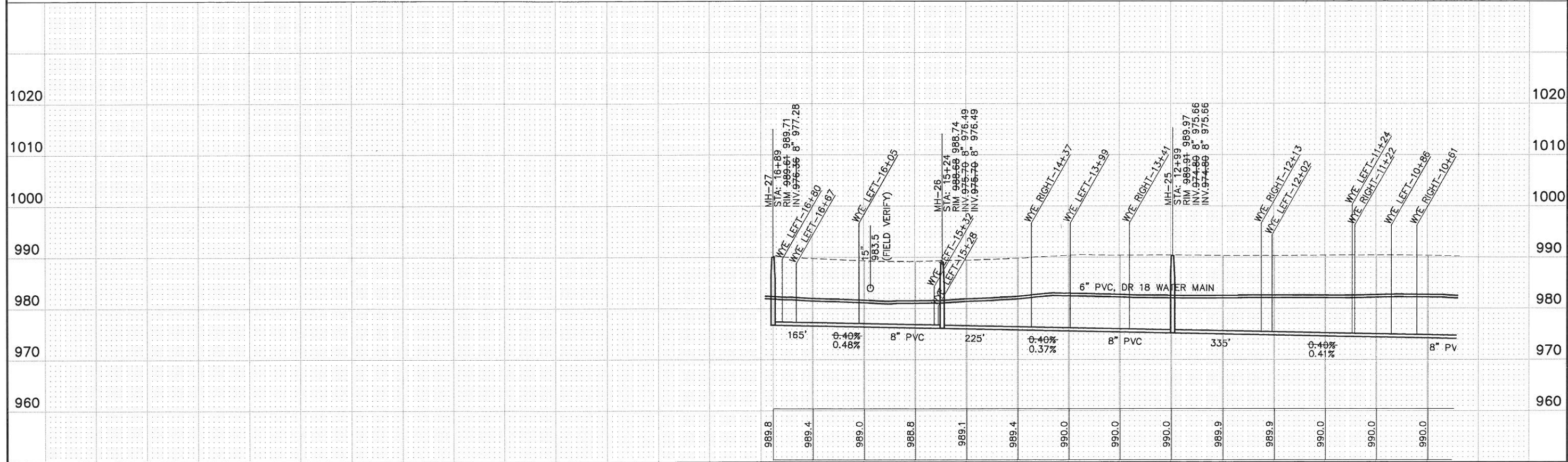
LOT NOTES (TYP):
 34 LOT NO.
 150 ADDRESS
 991.5 ENTRY FLOOR EL.

NOTE:
 SERVICE TO LOT 24 TO BE 7.5' DEEP AT STUB

PROVIDE SANITARY SEWER SERVICE STUB TO PARK. LOCATION TO BE DETERMINED IN FIELD BY ENGINEER



SOUTH SKYLINE DRIVE



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 PRINT NAME: Michael S. Nill
 SIGNATURE: [Signature]
 DATE: 12/19/2005
 LIC. NO.: 28914

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SKYLINE, MINNESOTA
 WASTEWATER COLLECTION AND TREATMENT IMPROVEMENTS
 SANITARY SEWER AND WATER MAIN

NOTES:
 ALL WATER MAIN IS PVC, DR 18 AND SHALL HAVE 7.5 FOOT MINIMUM COVER UNLESS NOTED OTHERWISE.

ALL SANITARY SEWER PIPE IS 8" PVC SDR 35 UNLESS NOTED OTHERWISE.

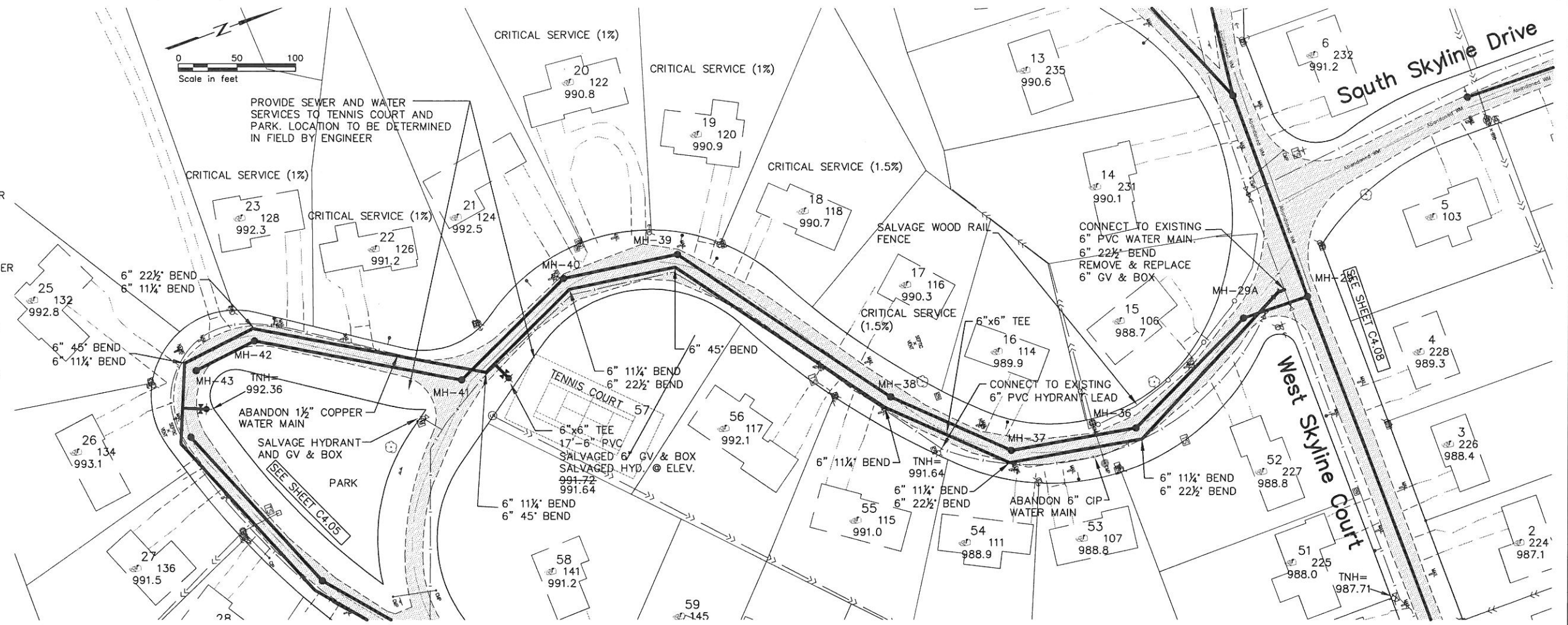
ALL 4" PVC SANITARY SEWER SERVICE SHALL BE SCHEDULE 40.

CONSTRUCT SANITARY SEWER SERVICES PER STANDARD DETAIL. LOCATION TO BE DETERMINED IN FIELD BY ENGINEER.

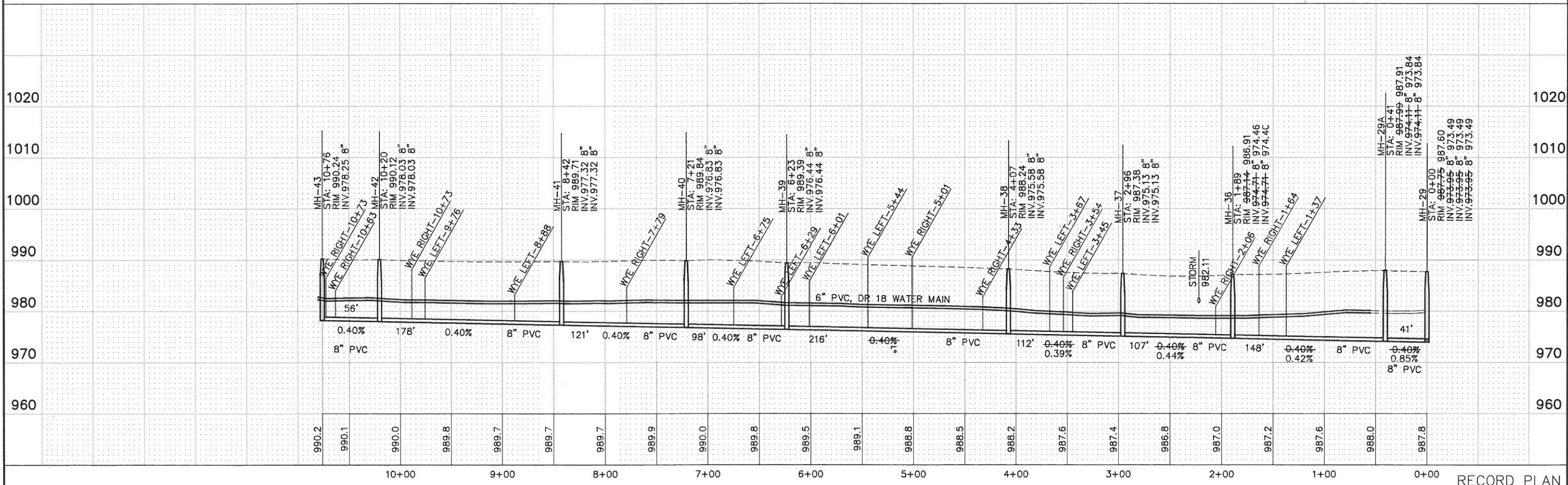
WHERE NEW WATER MAIN IS INSTALLED, ABANDON EXISTING CIP WATER MAIN AND CONSTRUCT WATER SERVICES PER STANDARD DETAIL.

LOCATIONS OF EXISTING AND ABANDONED WATER MAIN ARE APPROXIMATE.

LOT NOTES (TYP):
 34 LOT NO.
 150 ADDRESS
 991.5 ENTRY FLOOR EL.



SOUTH SKYLINE DRIVE



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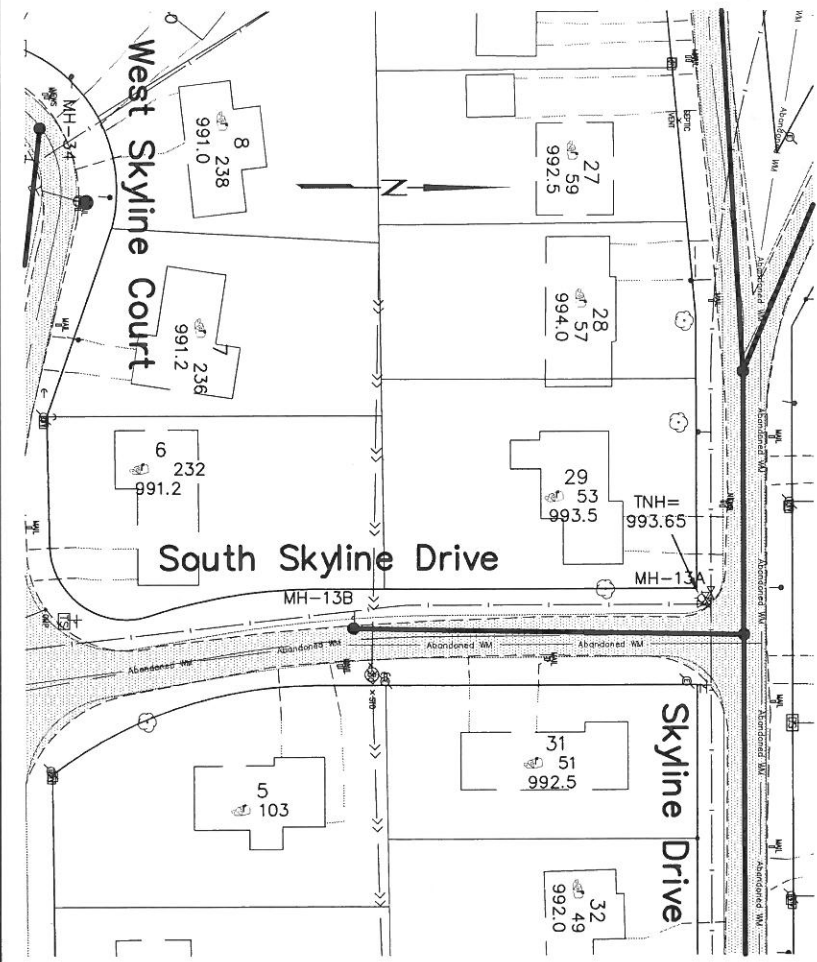
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 Fax: 651-636-1311

SKYLINE, MINNESOTA
 WASTEWATER COLLECTION AND TREATMENT IMPROVEMENTS
 SANITARY SEWER & WATER MAIN

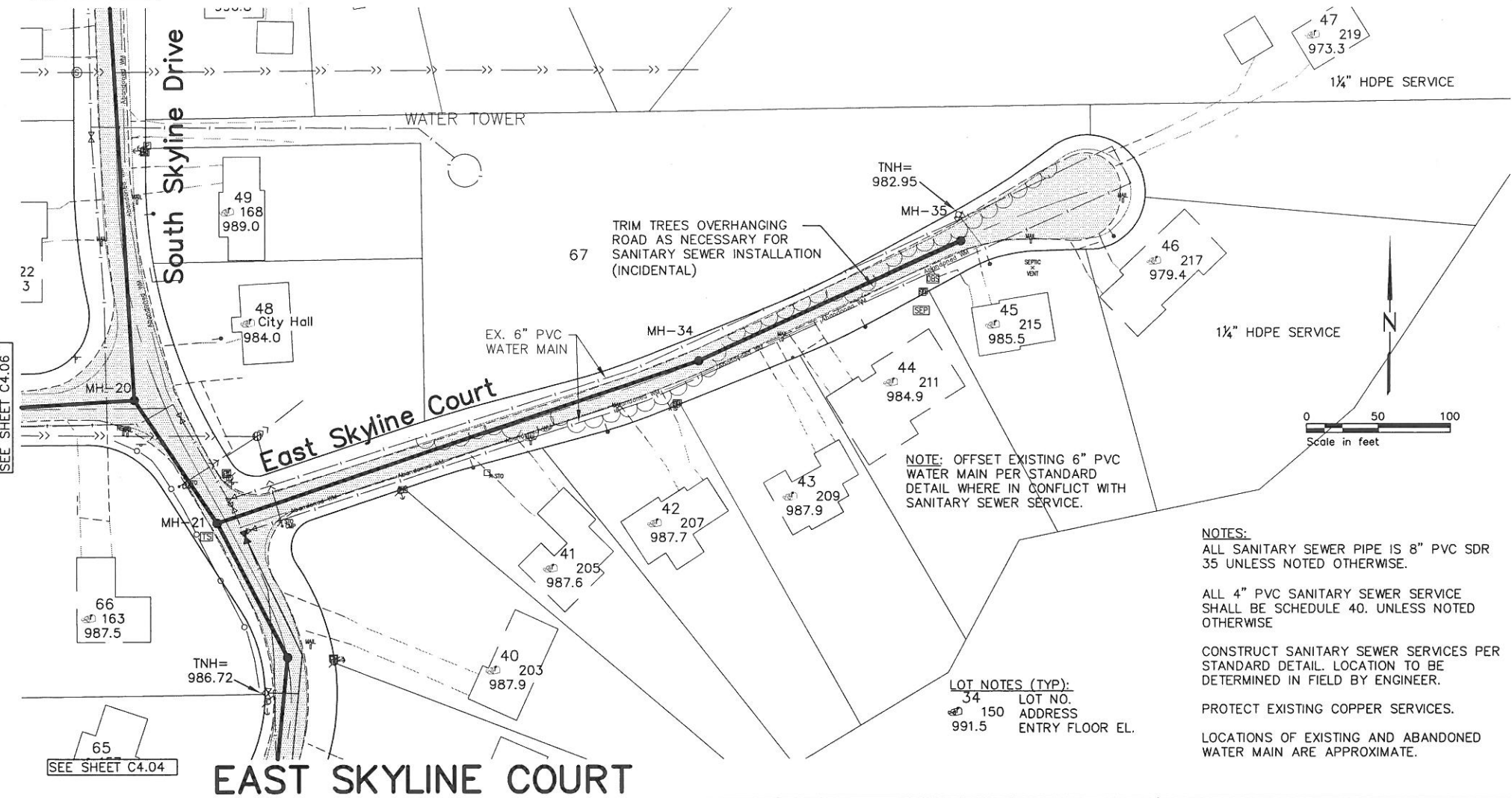
DATE: 12/19/2005
 LIC. NO.: 26914
 PRINT NAME: Michael S. Nil
 SIGNATURE: [Signature]
 DATE: [Blank]
 LIC. NO.: [Blank]

R:136502101C406
 SHEET NUMBER
C4.06

SEE SHEET C4.04



SEE SHEET C4.06



NOTE: OFFSET EXISTING 6" PVC WATER MAIN PER STANDARD DETAIL WHERE IN CONFLICT WITH SANITARY SEWER SERVICE.

NOTES:
 ALL SANITARY SEWER PIPE IS 8" PVC SDR 35 UNLESS NOTED OTHERWISE.
 ALL 4" PVC SANITARY SEWER SERVICE SHALL BE SCHEDULE 40. UNLESS NOTED OTHERWISE

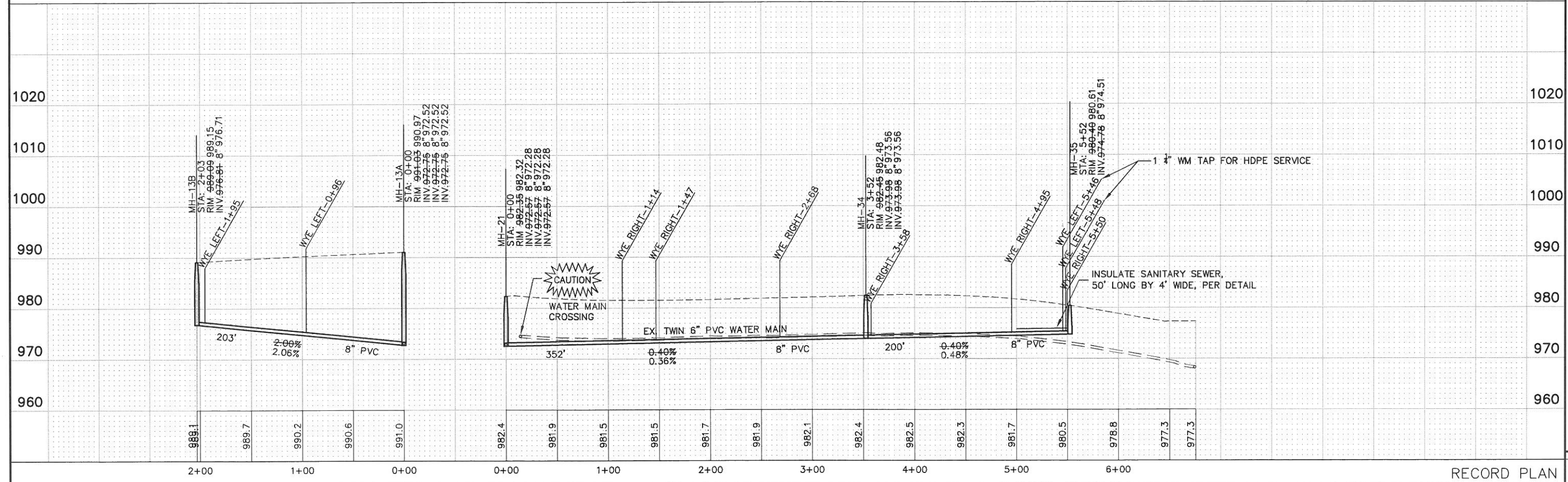
CONSTRUCT SANITARY SEWER SERVICES PER STANDARD DETAIL. LOCATION TO BE DETERMINED IN FIELD BY ENGINEER.

PROTECT EXISTING COPPER SERVICES.

LOCATIONS OF EXISTING AND ABANDONED WATER MAIN ARE APPROXIMATE.

LOT NOTES (TYP):
 34 LOT NO.
 150 ADDRESS
 991.5 ENTRY FLOOR EL.

EAST SKYLINE COURT



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: JEROME S. NII
 SIGNATURE: [Signature]
 DATE: 12/19/2005
 U.C. NO.: 26914
 PROJ. NO.: 1365-02-101

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SKYLINE, MINNESOTA
 WASTEWATER COLLECTION AND TREATMENT
 IMPROVEMENTS
 SANITARY SEWER

R:136502101C405
 SHEET NUMBER
C4.07

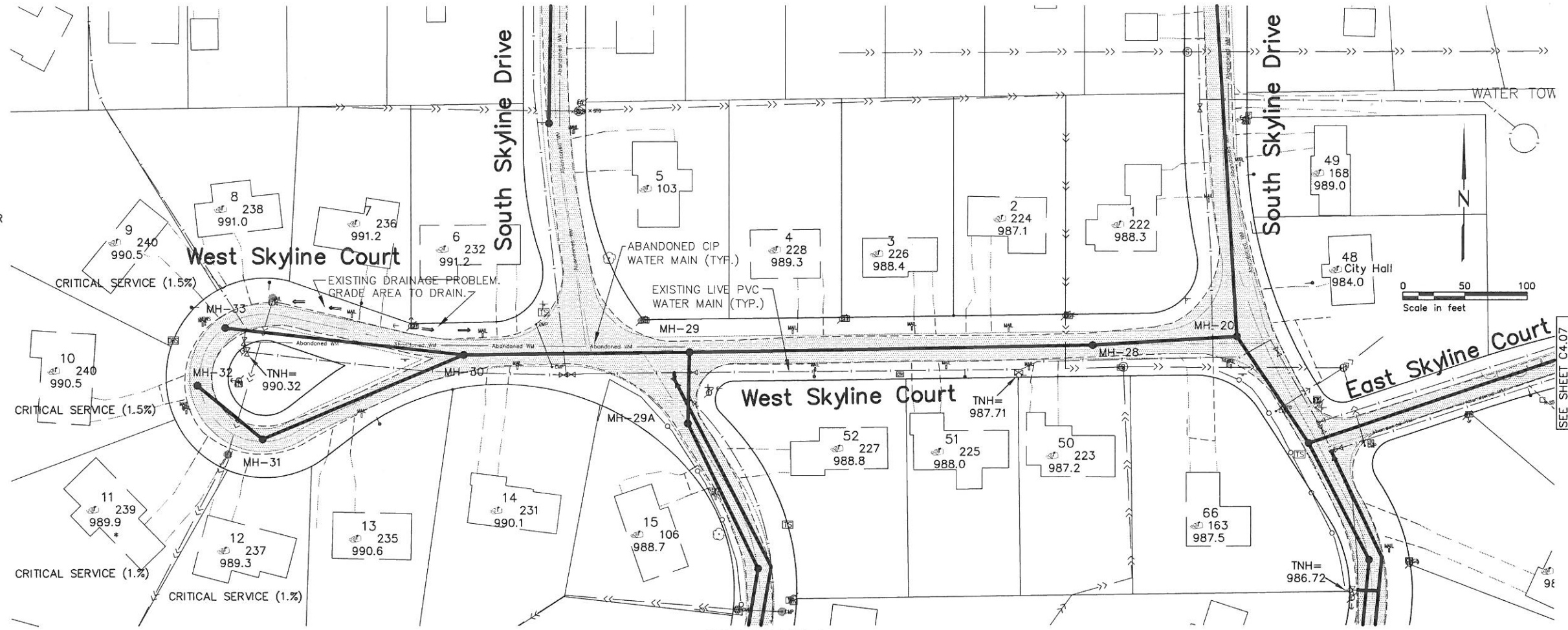
RECORD PLAN

SEE SHEET C4.07

SEE SHEET C4.04

NOTES:
 ALL SANITARY SEWER PIPE IS 8" PVC SDR 35 UNLESS NOTED OTHERWISE.
 ALL 4" PVC SANITARY SEWER SERVICE SHALL BE SCHEDULE 40.
 CONSTRUCT SANITARY SEWER SERVICES PER STANDARD DETAIL. LOCATION TO BE DETERMINED IN FIELD BY ENGINEER.
 PROTECT EXISTING COPPER SERVICES.
 LOCATIONS OF EXISTING AND ABANDONED WATER MAIN ARE APPROXIMATE.

LOT NOTES (TYP.):
 34 LOT NO.
 150 ADDRESS
 991.5 ENTRY FLOOR EL.

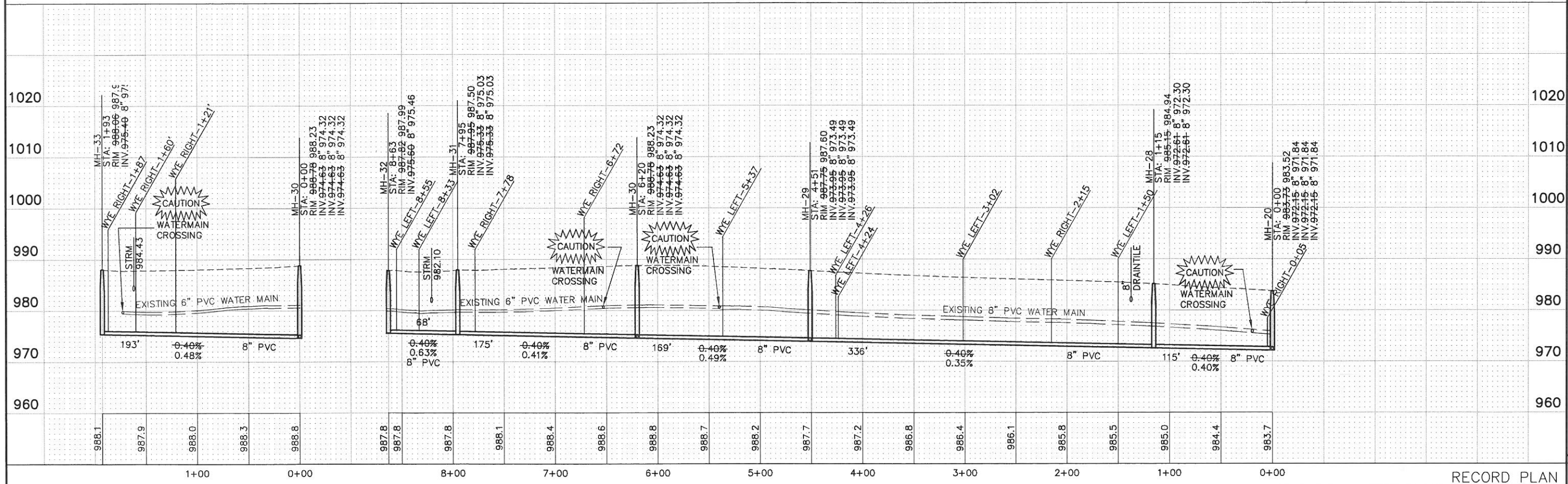


SEE SHEET C4.07

SEE SHEET C4.06

SEE SHEET C4.04

WEST SKYLINE COURT



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT SURVEY WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: MICHAEL S. NIEL
 APPROVED: [Signature]
 DATE: 12/19/2006
 LIC. NO.: 26914

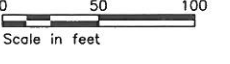
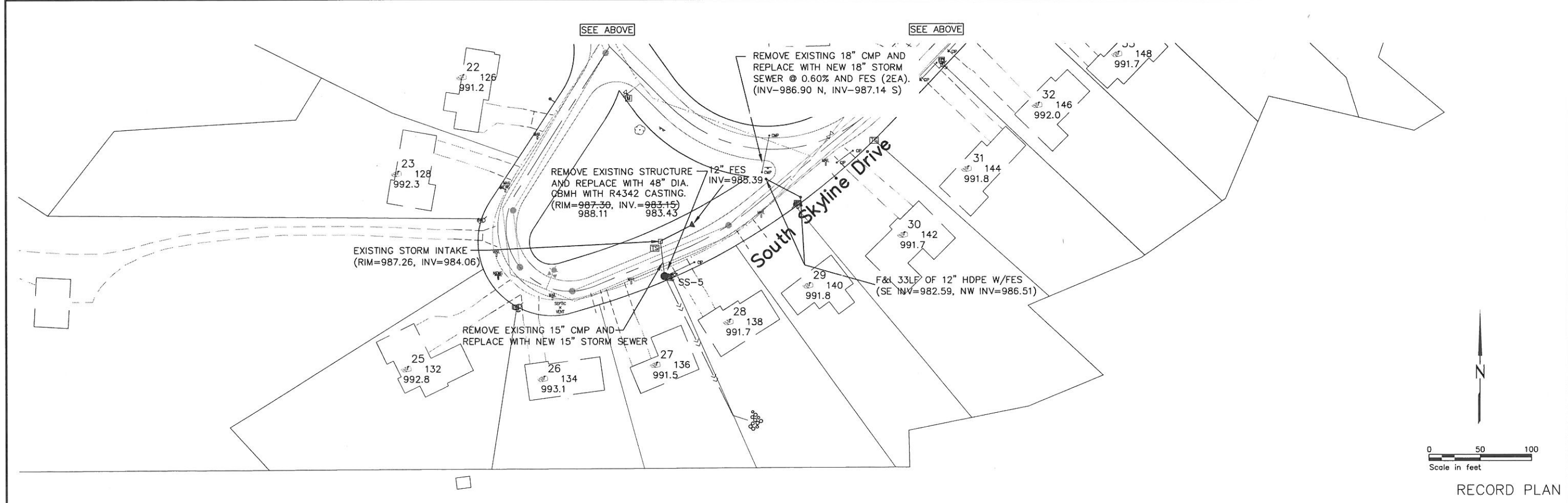
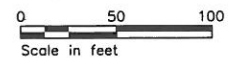
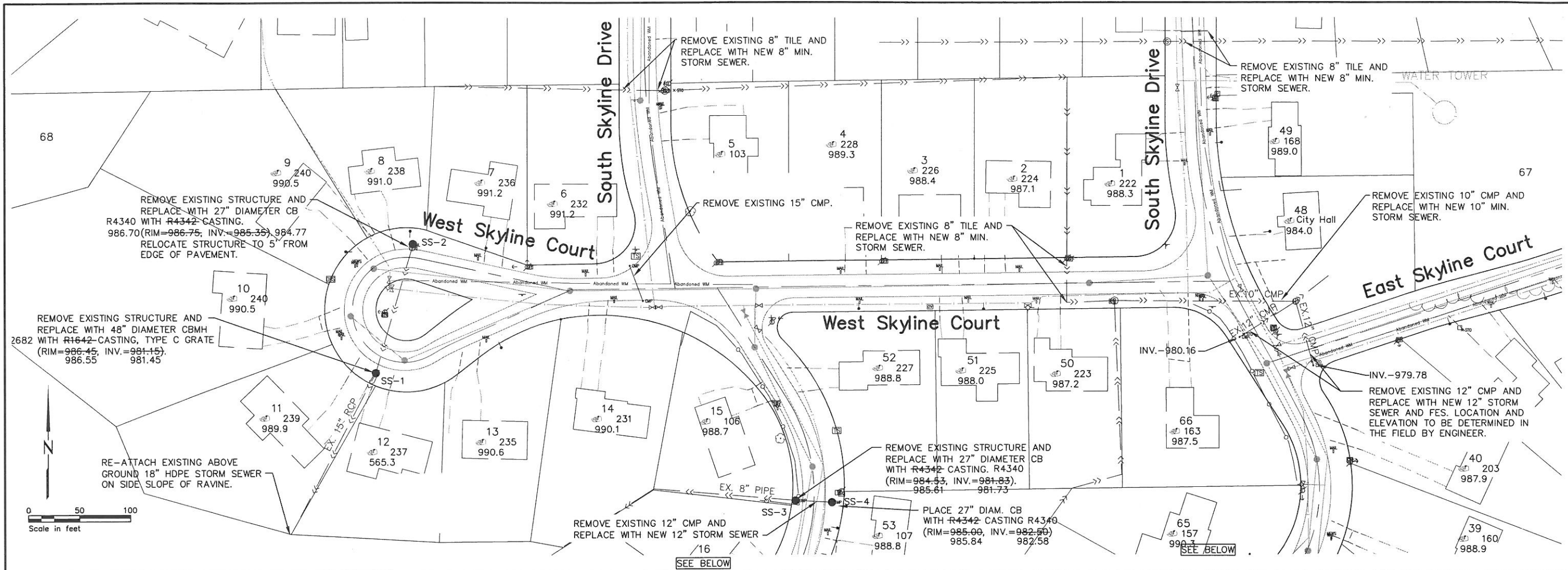
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SKYLINE, MINNESOTA
 WASTEWATER COLLECTION AND TREATMENT IMPROVEMENTS
 SANITARY SEWER

R:136502101C404
 SHEET NUMBER
C4.08

RECORD PLAN



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: MICHAEL S. NILL
 SIGNATURE: [Signature]
 DATE: 12/19/2005
 LIC. NO.: 26914
 PROJ. NO. 1365-02-101

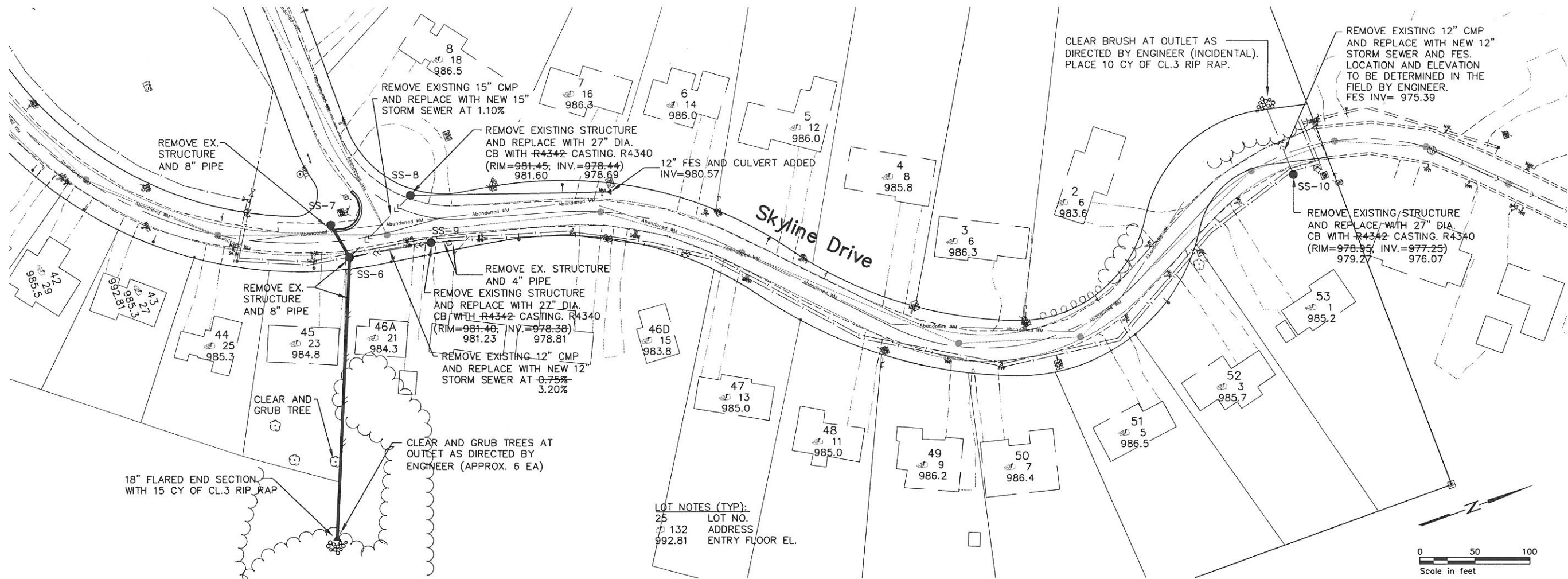
St. Paul Office
 2335 West Highway 36
 St. Paul, MN 55113
 Phone: 651-636-4600
 Fax: 651-636-1311



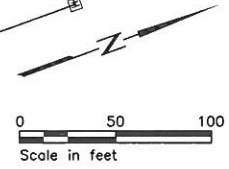
SKYLINE, MINNESOTA
 WASTEWATER COLLECTION AND TREATMENT
 IMPROVEMENTS
 STORM SEWER

R:136502101C501
 SHEET NUMBER
C5.01

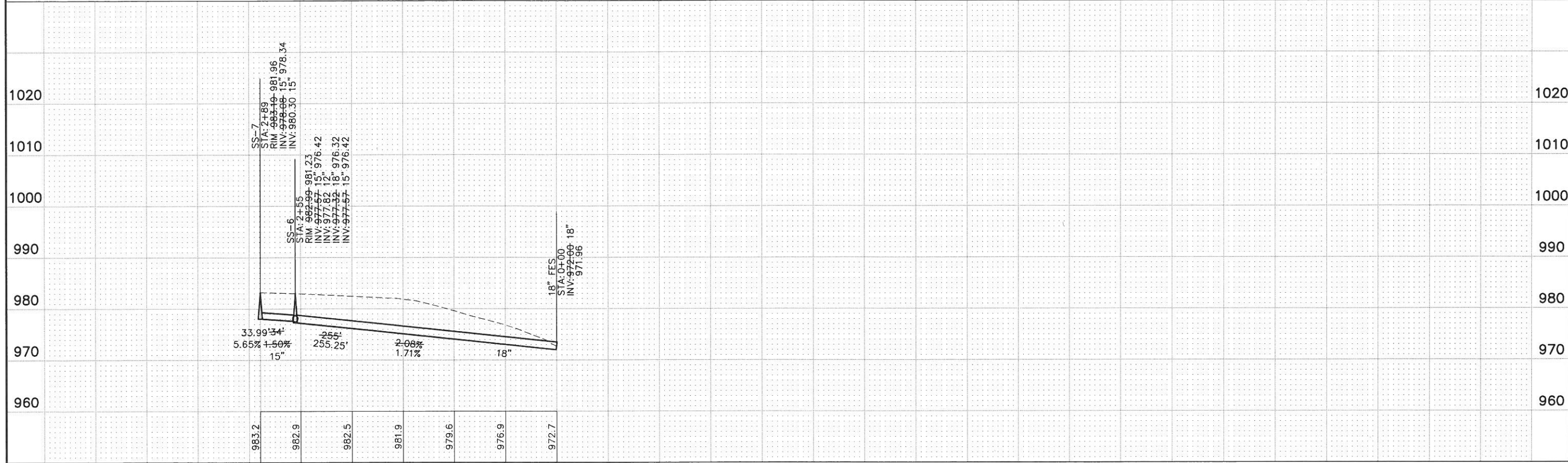
RECORD PLAN



LOT NOTES (TYP):
 25 LOT NO.
 132 ADDRESS
 992.81 ENTRY FLOOR EL.



SKYLINE DRIVE



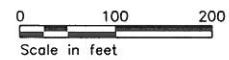
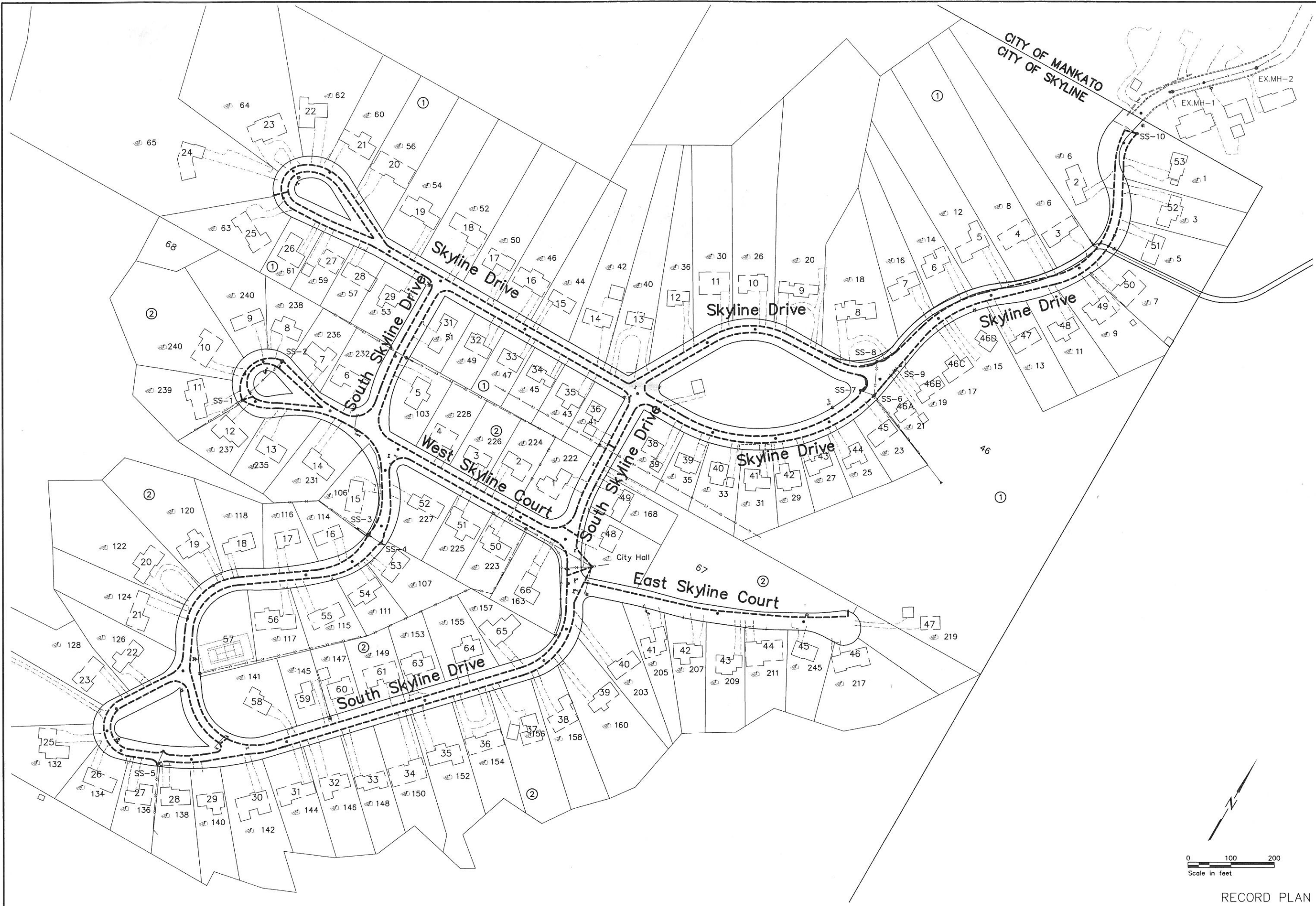
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: Michael S. Nill
 SIGNATURE: [Signature]
 DATE: 12/19/2016
 LIC. NO.: 28914

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 Phone: 651-636-4600
 Fax: 651-636-1311



SKYLINE, MINNESOTA
 WASTEWATER COLLECTION AND TREATMENT IMPROVEMENTS
 STORM SEWER

R:136502101C502
 SHEET NUMBER



RECORD PLAN

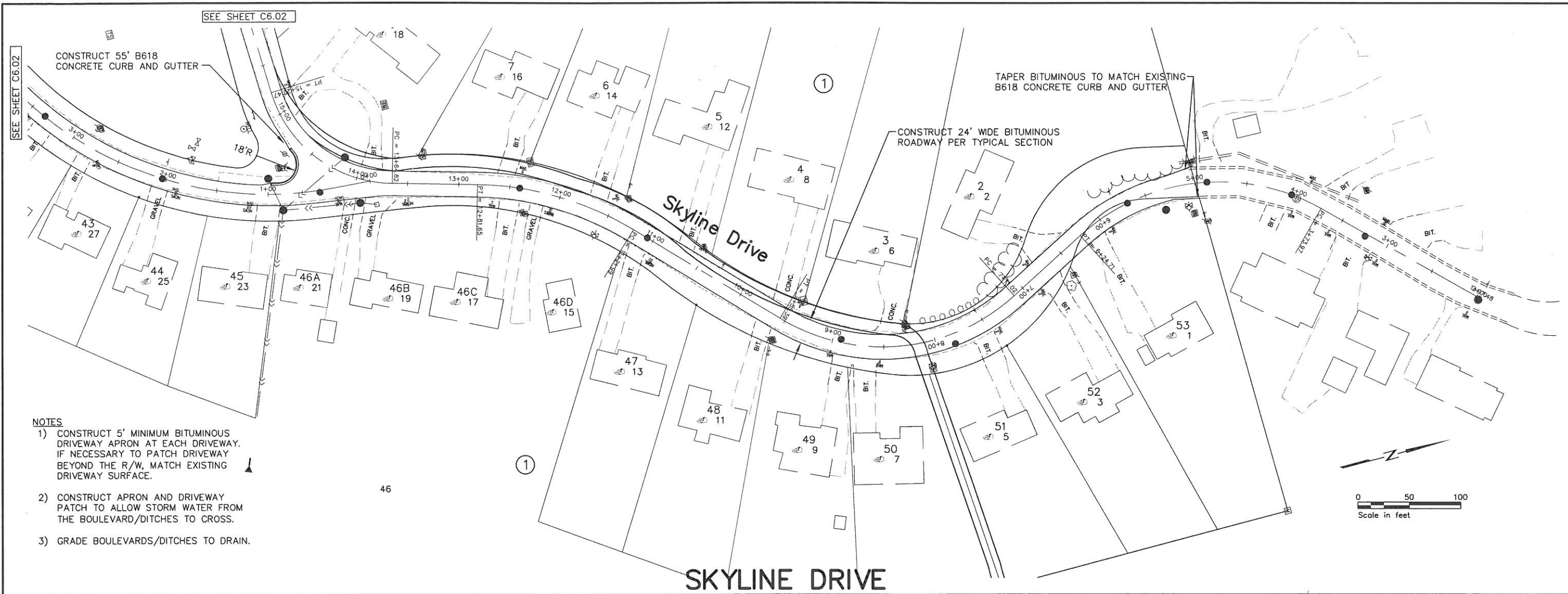
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: MICHAEL S. NILL
 SIGNATURE: *[Signature]*
 DATE: 12/19/2005 LIC. NO.: 26914
 SURVEY DRAWN DESIGNED MSN APPROVED MSN DATE

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 2335 West Highway 36
 St. Paul, MN 55113
 Phone: 651-636-4600
 Fax: 651-636-1311

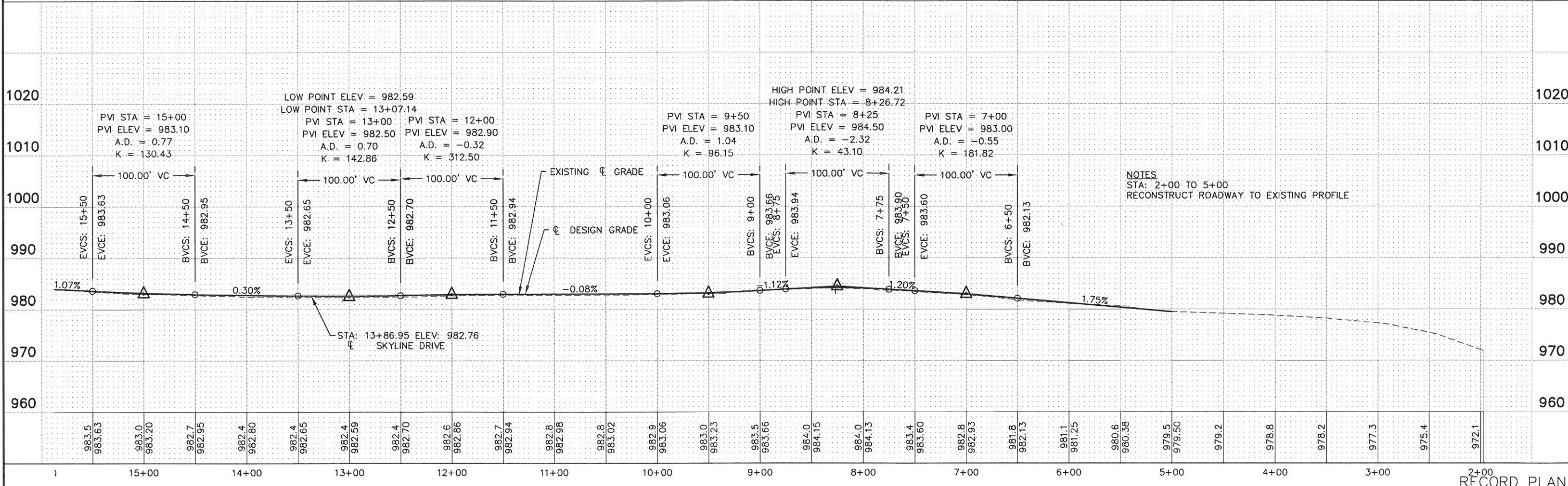


SKYLINE, MINNESOTA
 WASTEWATER COLLECTION AND TREATMENT
 IMPROVEMENTS
 DRAIN TILE PLAN

R:136502101C503
 SHEET NUMBER
C5.03



- NOTES**
- 1) CONSTRUCT 5' MINIMUM BITUMINOUS DRIVEWAY APRON AT EACH DRIVEWAY. IF NECESSARY TO PATCH DRIVEWAY BEYOND THE R/W, MATCH EXISTING DRIVEWAY SURFACE.
 - 2) CONSTRUCT APRON AND DRIVEWAY PATCH TO ALLOW STORM WATER FROM THE BOULEVARD/DITCHES TO CROSS.
 - 3) GRADE BOULEVARDS/DITCHES TO DRAIN.



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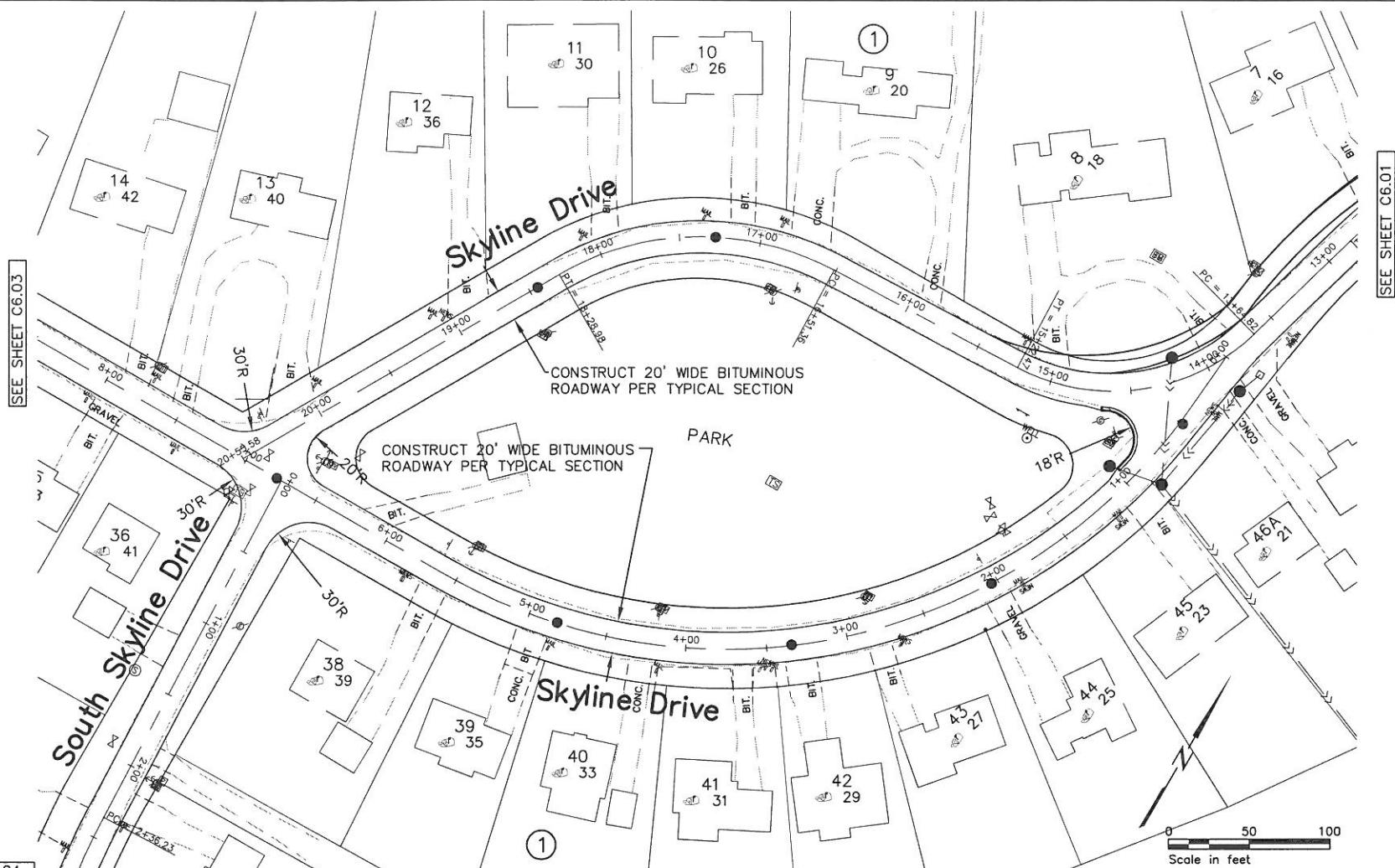
SKYLINE, MINNESOTA
 WASTEWATER COLLECTION AND TREATMENT
 STREET IMPROVEMENTS
 SKYLINE DRIVE

C6.01

DATE: 12/19/2005
 LIC. NO.: 26914

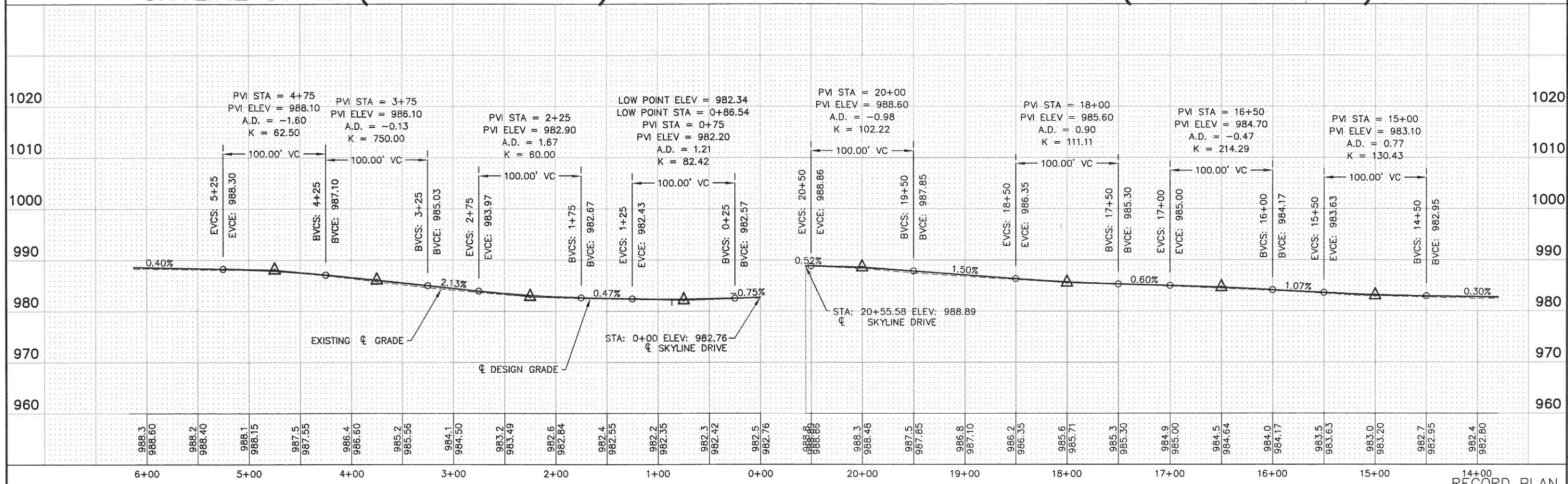
NOTES

- 1) CONSTRUCT 5' MINIMUM BITUMINOUS DRIVEWAY APRON AT EACH DRIVEWAY. IF NECESSARY TO PATCH DRIVEWAY BEYOND THE R/W, MATCH EXISTING DRIVEWAY SURFACE.
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- 3) GRADE BOULEVARDS/DITCHES TO DRAIN.



SKYLINE DRIVE (SOUTH OF PARK)

SKYLINE DRIVE (NORTH OF PARK)



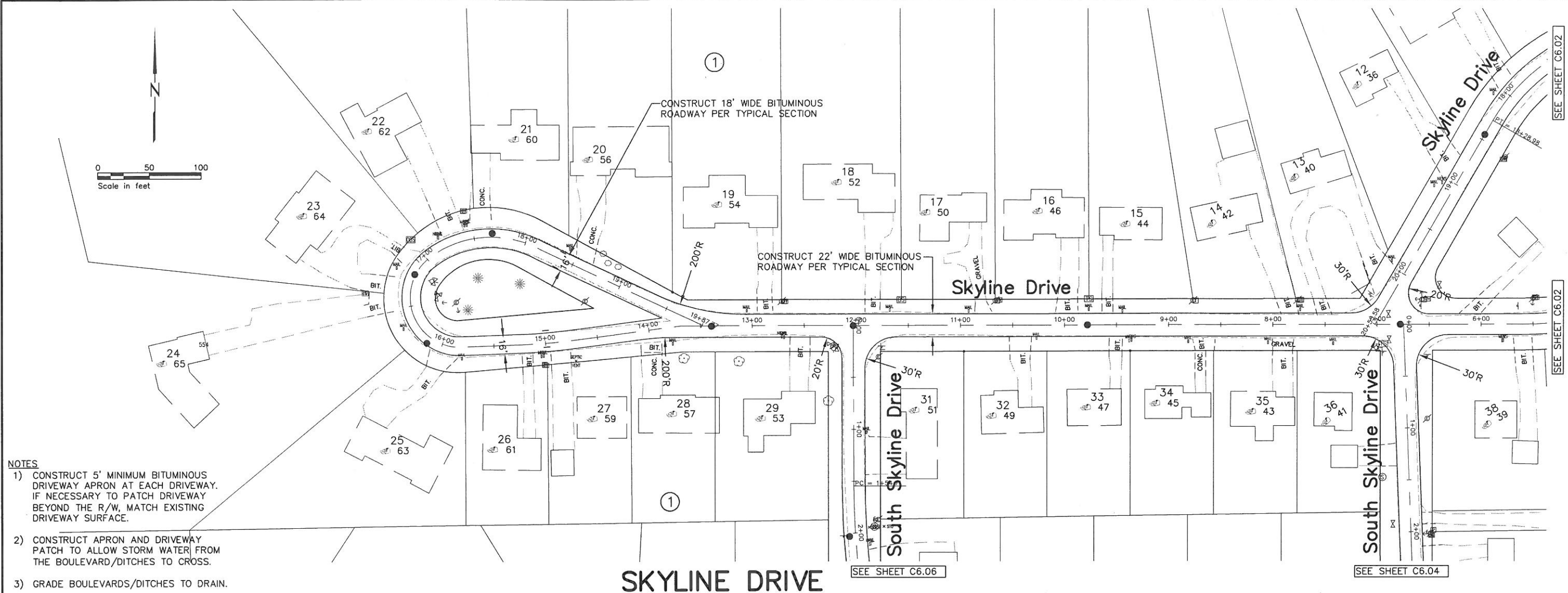
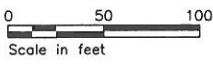
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 PRINT NAME: Michael S. Nil
 SIGNATURE: *[Signature]*
 DATE: 12/19/2005
 LIC. NO.: 26914
 PROJ. NO. 1365-02-101

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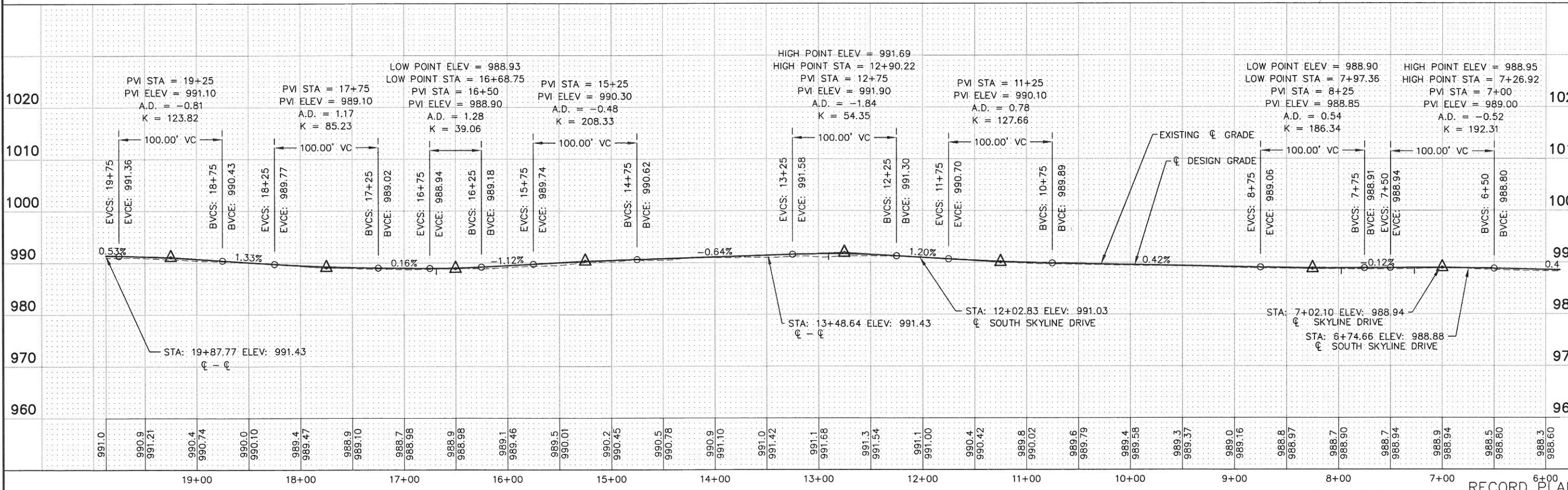
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 Engineers & Architects
 www.bonestroo.com

SKYLINE, MINNESOTA
 WASTEWATER COLLECTION AND TREATMENT
 STREET IMPROVEMENTS
 SKYLINE DRIVE

R-136502101C601
 SHEET NUMBER
C6.02



- NOTES**
- 1) CONSTRUCT 5' MINIMUM BITUMINOUS DRIVEWAY APRON AT EACH DRIVEWAY. IF NECESSARY TO PATCH DRIVEWAY BEYOND THE R/W, MATCH EXISTING DRIVEWAY SURFACE.
 - 2) CONSTRUCT APRON AND DRIVEWAY PATCH TO ALLOW STORM WATER FROM THE BOULEVARD/DITCHES TO CROSS.
 - 3) GRADE BOULEVARDS/DITCHES TO DRAIN.



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 PRINT NAME: MICHAEL S. NIEL
 SIGNATURE: *[Signature]*
 DATE: 12/19/2005 LIC. NO.: 26914
 PROJ. NO. 1365-02-101

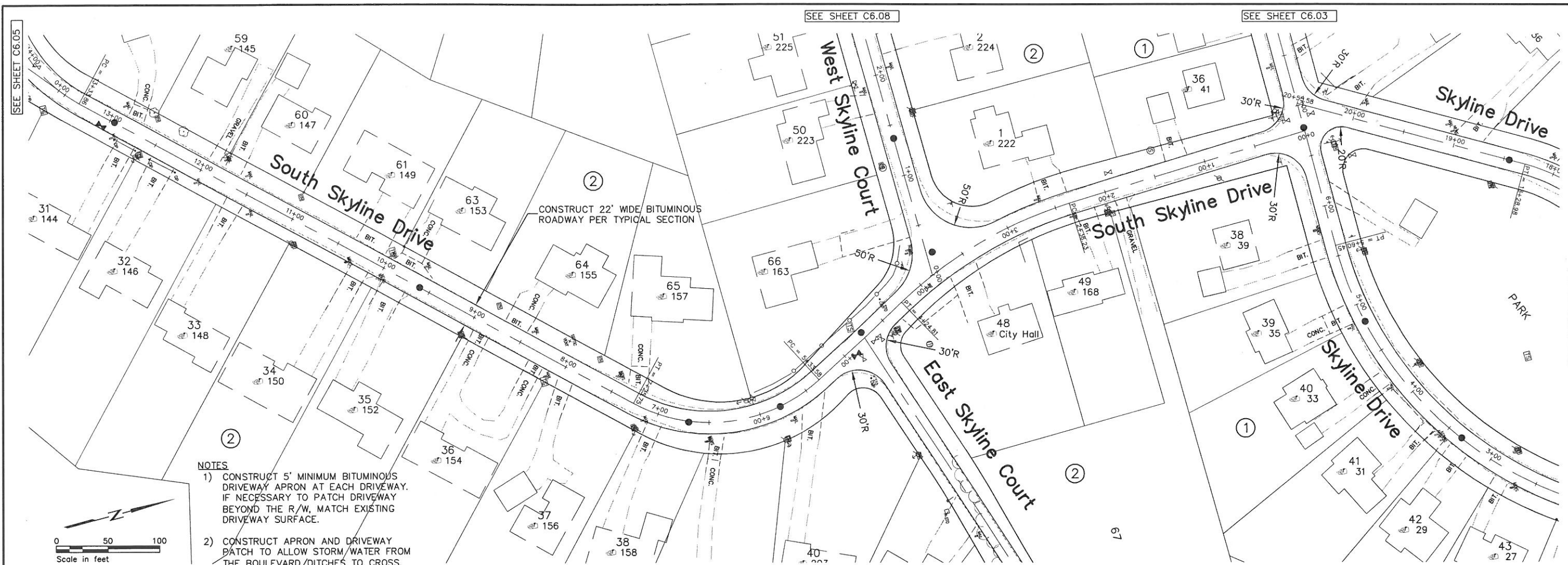
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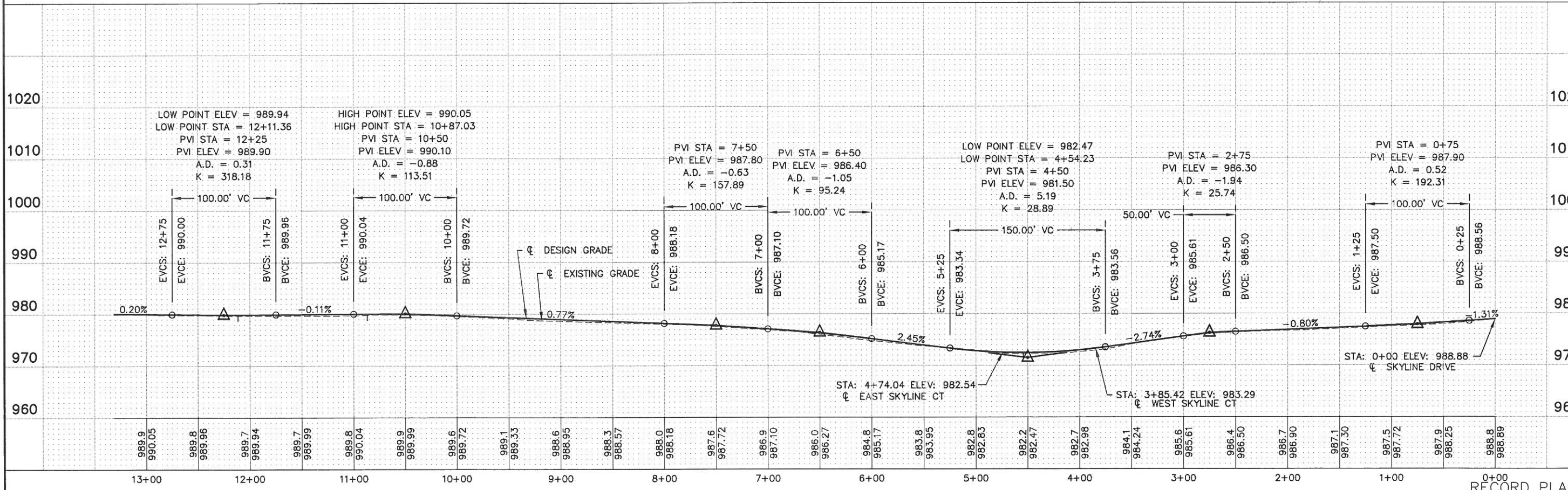
SKYLINE, MINNESOTA
 WASTEWATER COLLECTION AND TREATMENT
 STREET IMPROVEMENTS
 SKYLINE DRIVE

R:136502101C601
 SHEET NUMBER
C6.03

RECORD PLAN



SOUTH SKYLINE DRIVE



RECORD PLAN C6.04

SEE SHEET C6.05 | SEE SHEET C6.08 | SEE SHEET C6.03 | SEE SHEET C6.07 | SEE SHEET C6.02

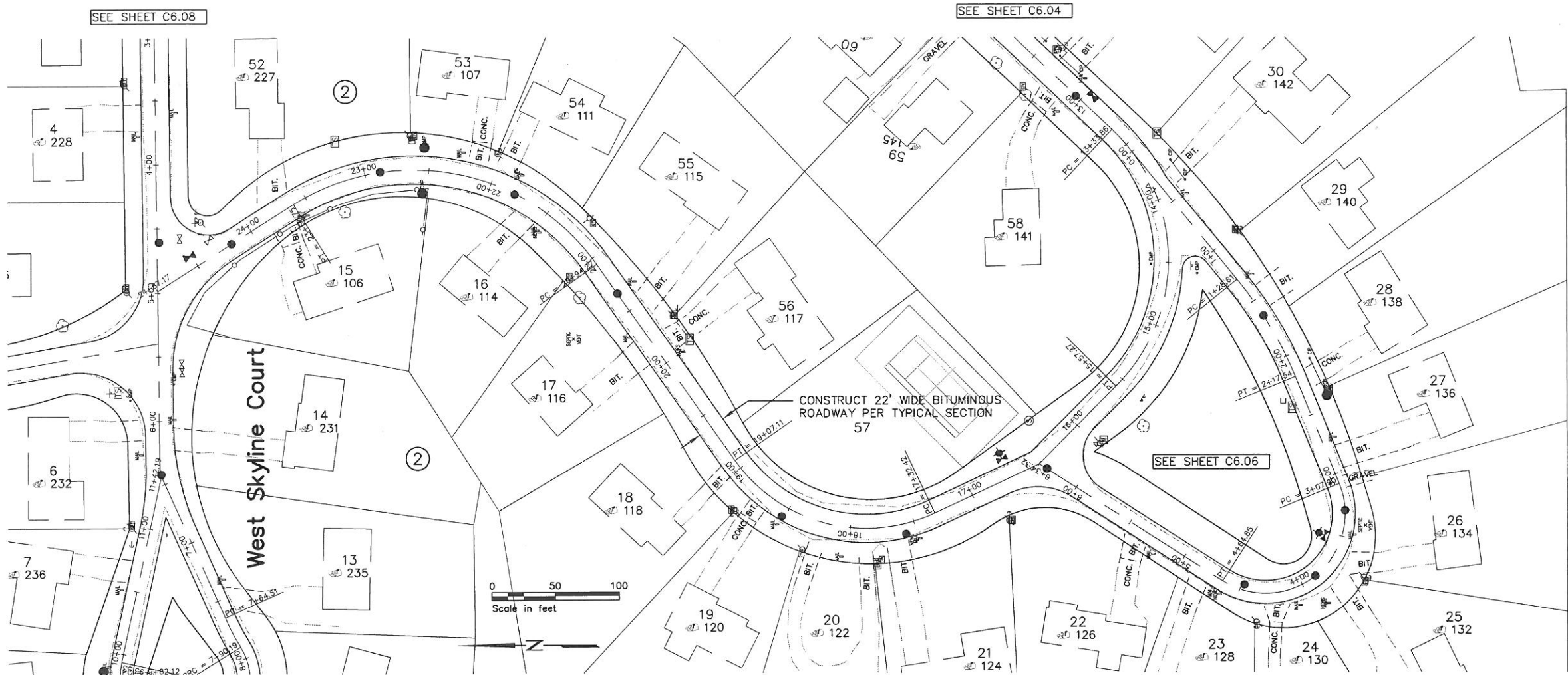
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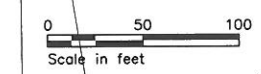
SKYLINE, MINNESOTA
 WASTEWATER COLLECTION AND TREATMENT
 STREET IMPROVEMENTS
 SOUTH SKYLINE DRIVE

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 SHEET NUMBER

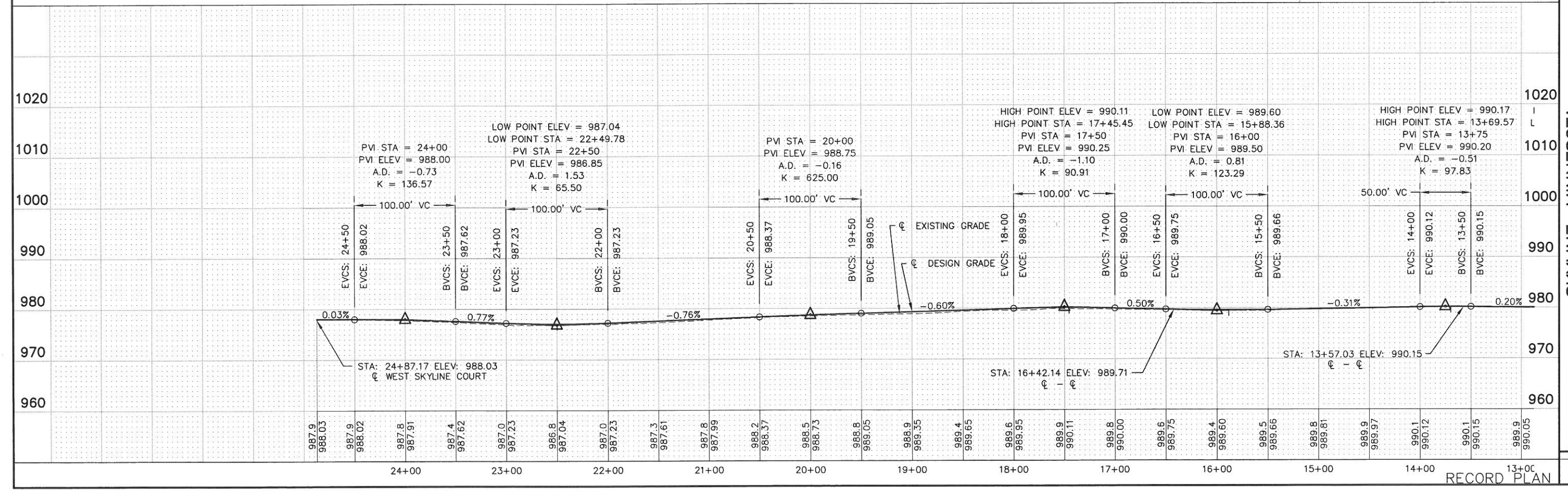
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 PRINT NAME: Michael S. Hill
 SIGNATURE: [Signature]
 DATE: 12/19/2006
 LIC. NO.: 26914
 PROJ. NO.: 1385-02-101



- NOTES**
- 1) CONSTRUCT 5' MINIMUM BITUMINOUS DRIVEWAY APRON AT EACH DRIVEWAY. IF NECESSARY TO PATCH DRIVEWAY BEYOND THE R/W, MATCH EXISTING DRIVEWAY SURFACE.
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 - 3) GRADE BOULEVARDS/DITCHES TO DRAIN.



SOUTH SKYLINE DRIVE



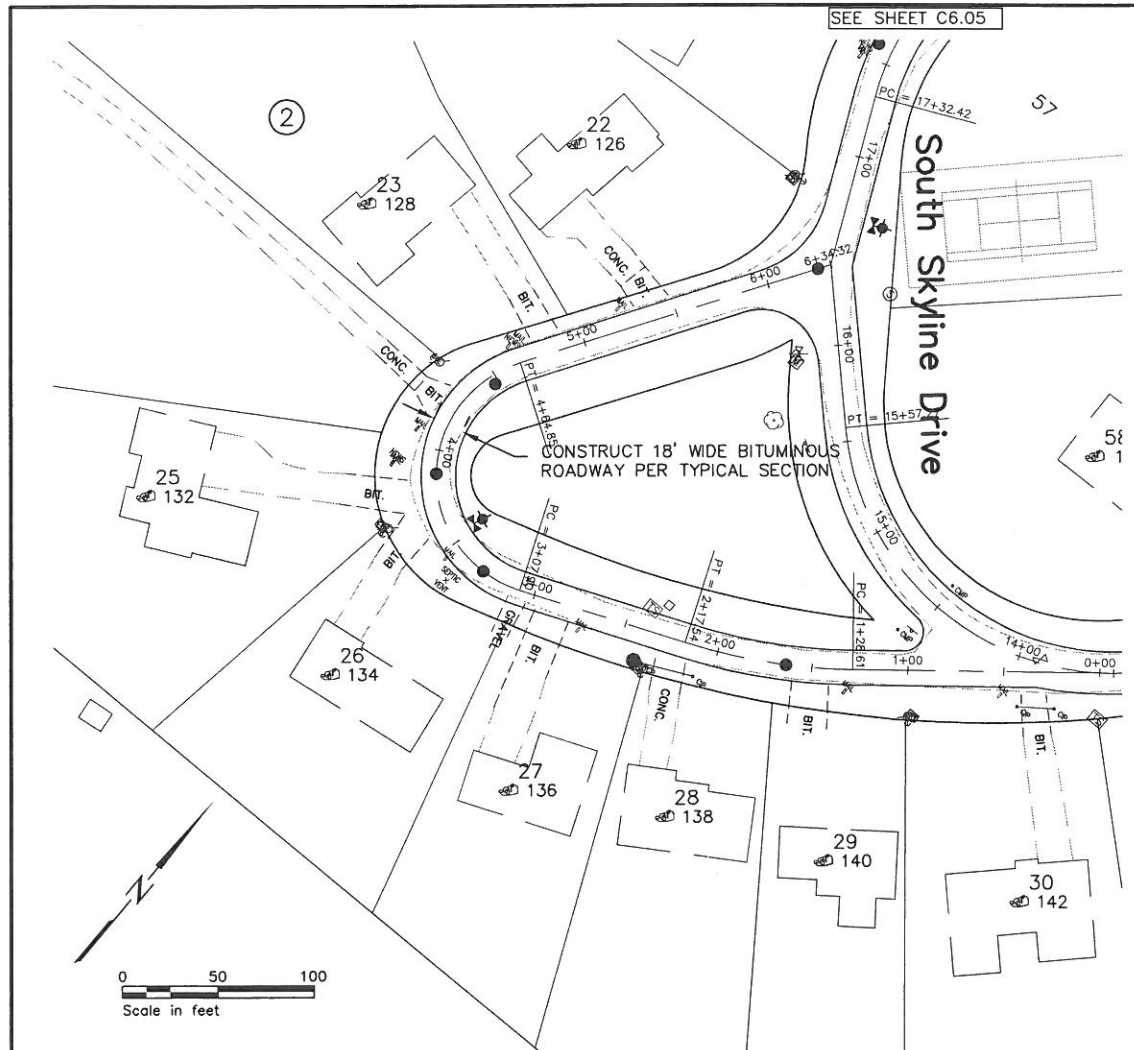
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 PRINT NAME: Michael S. Nil
 SIGNATURE: *[Signature]*
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SKYLINE, MINNESOTA
 WASTEWATER COLLECTION AND TREATMENT
 STREET IMPROVEMENTS
 SOUTH SKYLINE DRIVE

R: 136502101C602
 SHEET NUMBER
C6.05



SEE SHEET C6.05

SEE SHEET C6.04

SEE SHEET C6.05

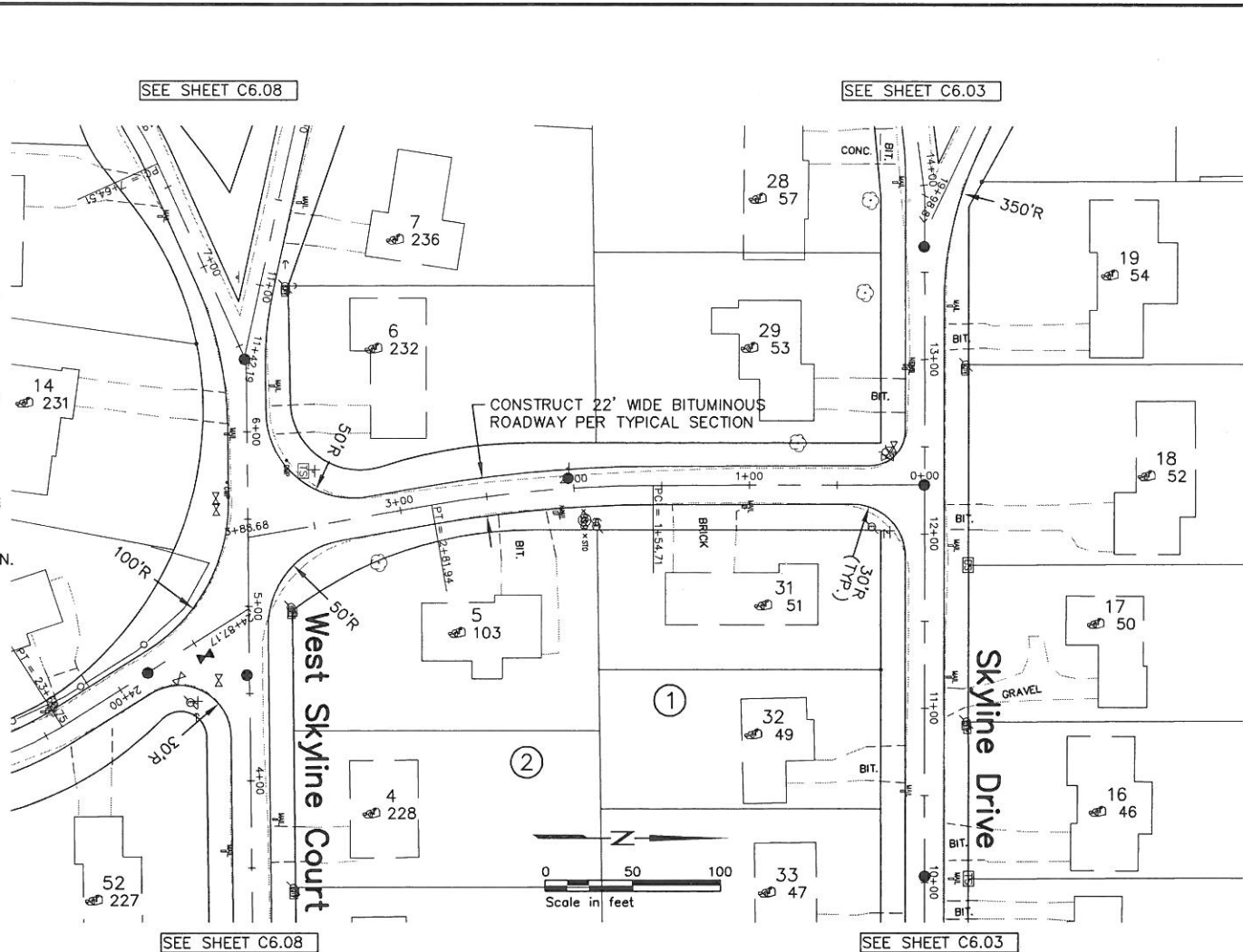
SEE SHEET C6.08

SEE SHEET C6.03

SEE SHEET C6.08

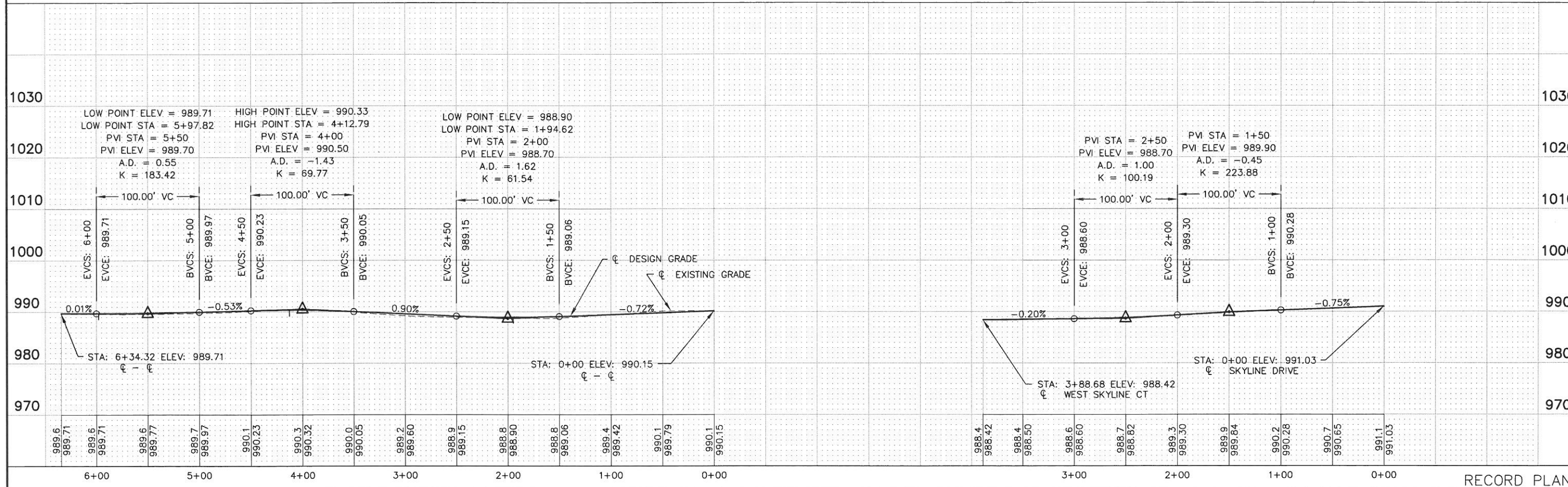
SEE SHEET C6.03

- NOTES**
- 1) CONSTRUCT 5' MINIMUM BITUMINOUS DRIVEWAY APRON AT EACH DRIVEWAY. IF NECESSARY TO PATCH DRIVEWAY BEYOND THE R/W, MATCH EXISTING DRIVEWAY SURFACE.
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SOUTH SKYLINE DRIVE

SOUTH SKYLINE DRIVE



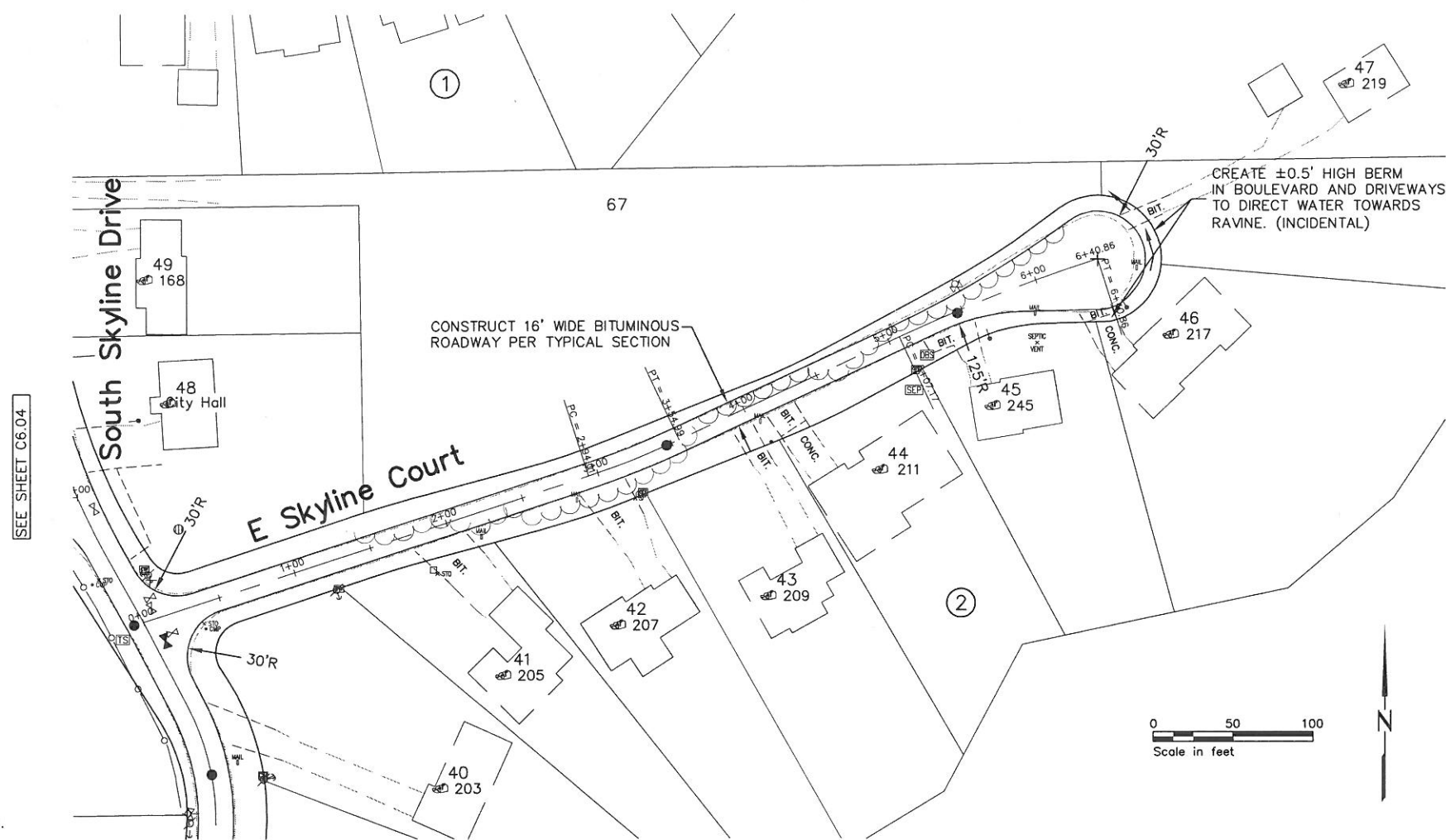
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SKYLINE, MINNESOTA
WASTEWATER COLLECTION AND TREATMENT
STREET IMPROVEMENTS
SOUTH SKYLINE DRIVE

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PRINT NAME: Michael S. Hill
SIGNATURE: [Signature]
DATE: 12/19/2005
LIC. NO.: 26914
PROJ. NO. 1385-02-101

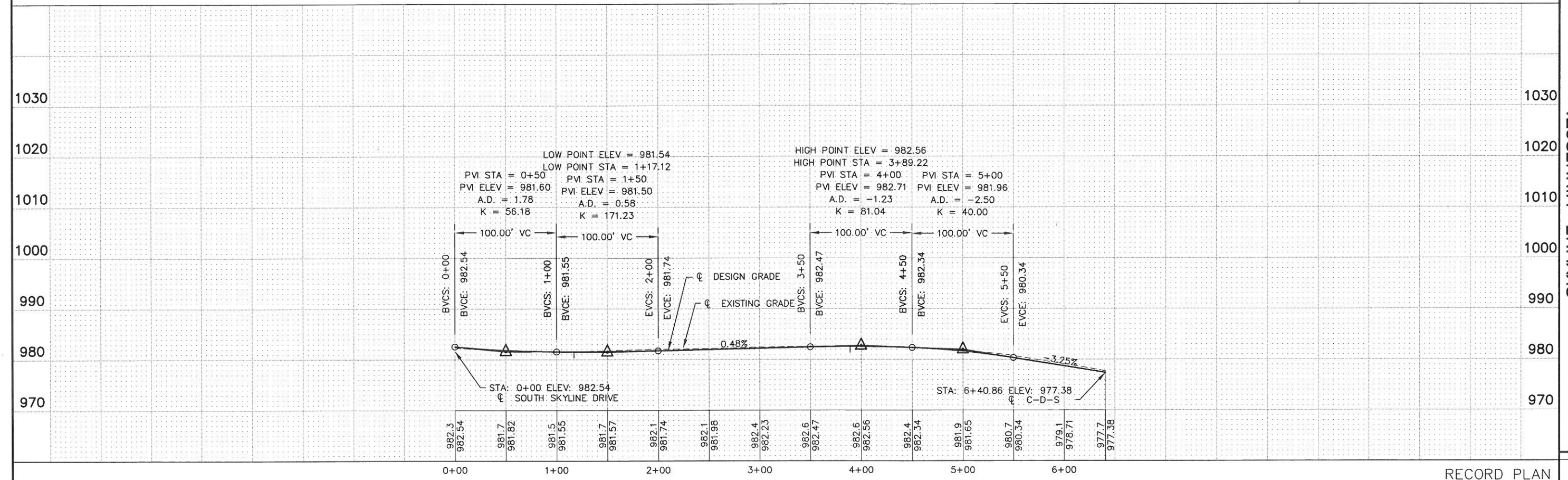
R:138502101C604
SHEET NUMBER
C6.06



- NOTES**
- 1) CONSTRUCT 5' MINIMUM BITUMINOUS DRIVEWAY APRON AT EACH DRIVEWAY. IF NECESSARY TO PATCH DRIVEWAY BEYOND THE R/W, MATCH EXISTING DRIVEWAY SURFACE.
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 - 3) GRADE BOULEVARDS/DITCHES TO DRAIN.

SEE SHEET C6.04

EAST SKYLINE COURT



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 PRINT NAME: MICHAEL S. NEIL
 SIGNATURE: *[Signature]*
 DATE: 12/19/2005 LIC. NO. 26914

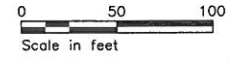
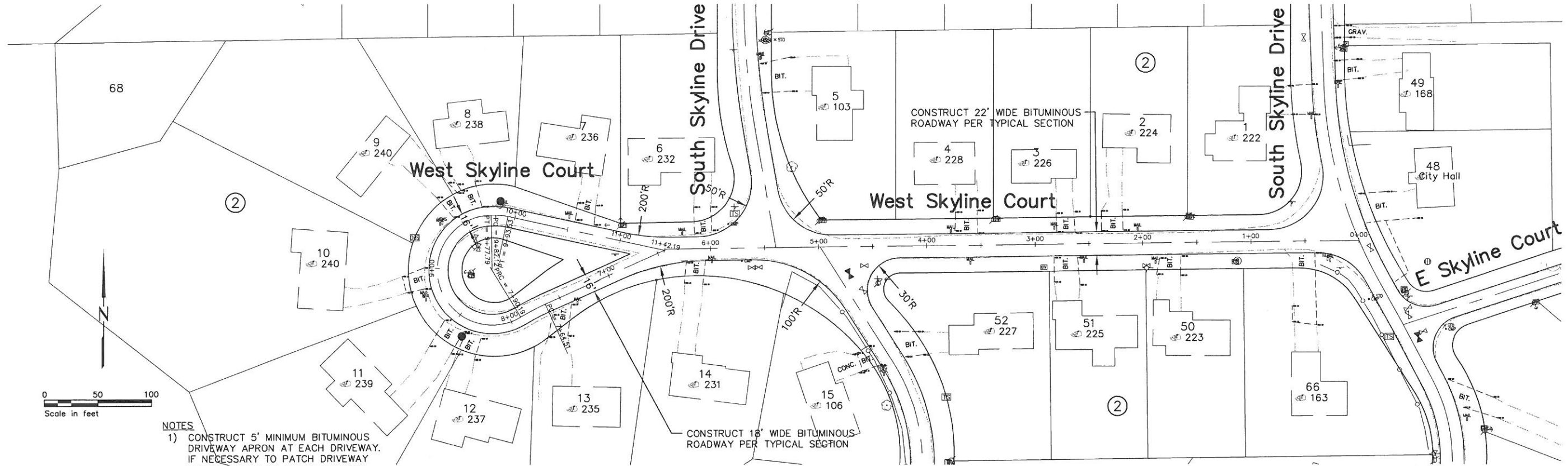
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SKYLINE, MINNESOTA
 WASTEWATER COLLECTION AND TREATMENT
 STREET IMPROVEMENTS
 EAST SKYLINE COURT

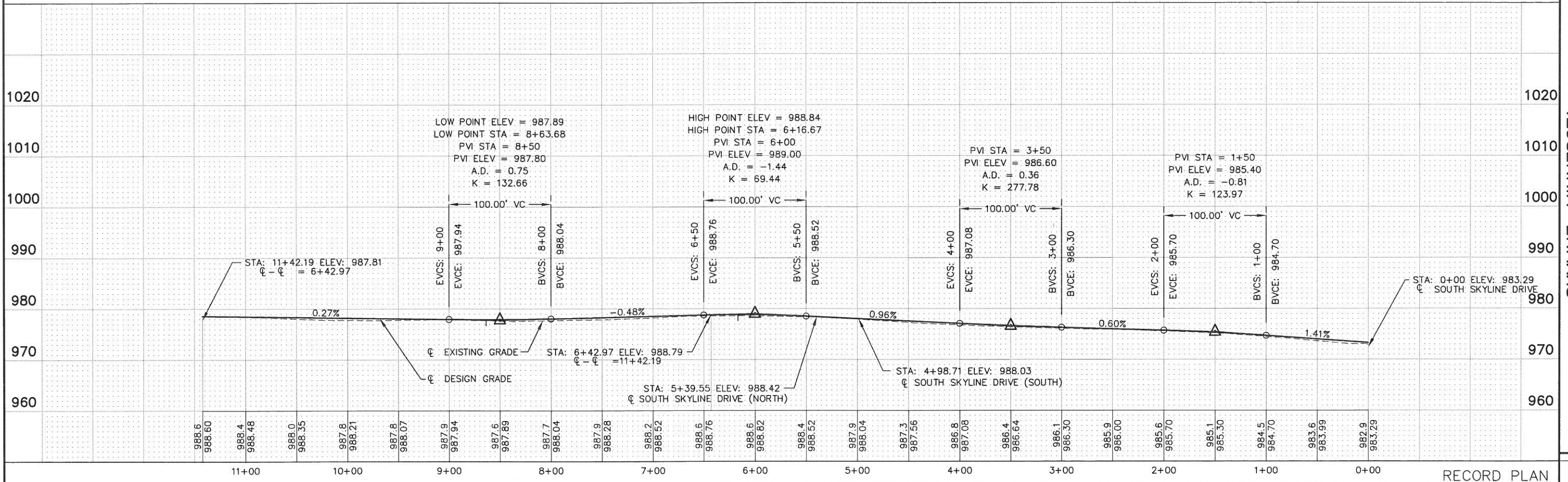
SEE SHEET C6.06

SEE SHEET C6.04



- NOTES**
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WEST SKYLINE COURT



SEE SHEET C6.07

SEE SHEET C6.05

SEE SHEET C6.04

SKYLINE, MINNESOTA
WASTEWATER COLLECTION AND TREATMENT
STREET IMPROVEMENTS
WEST SKYLINE COURT

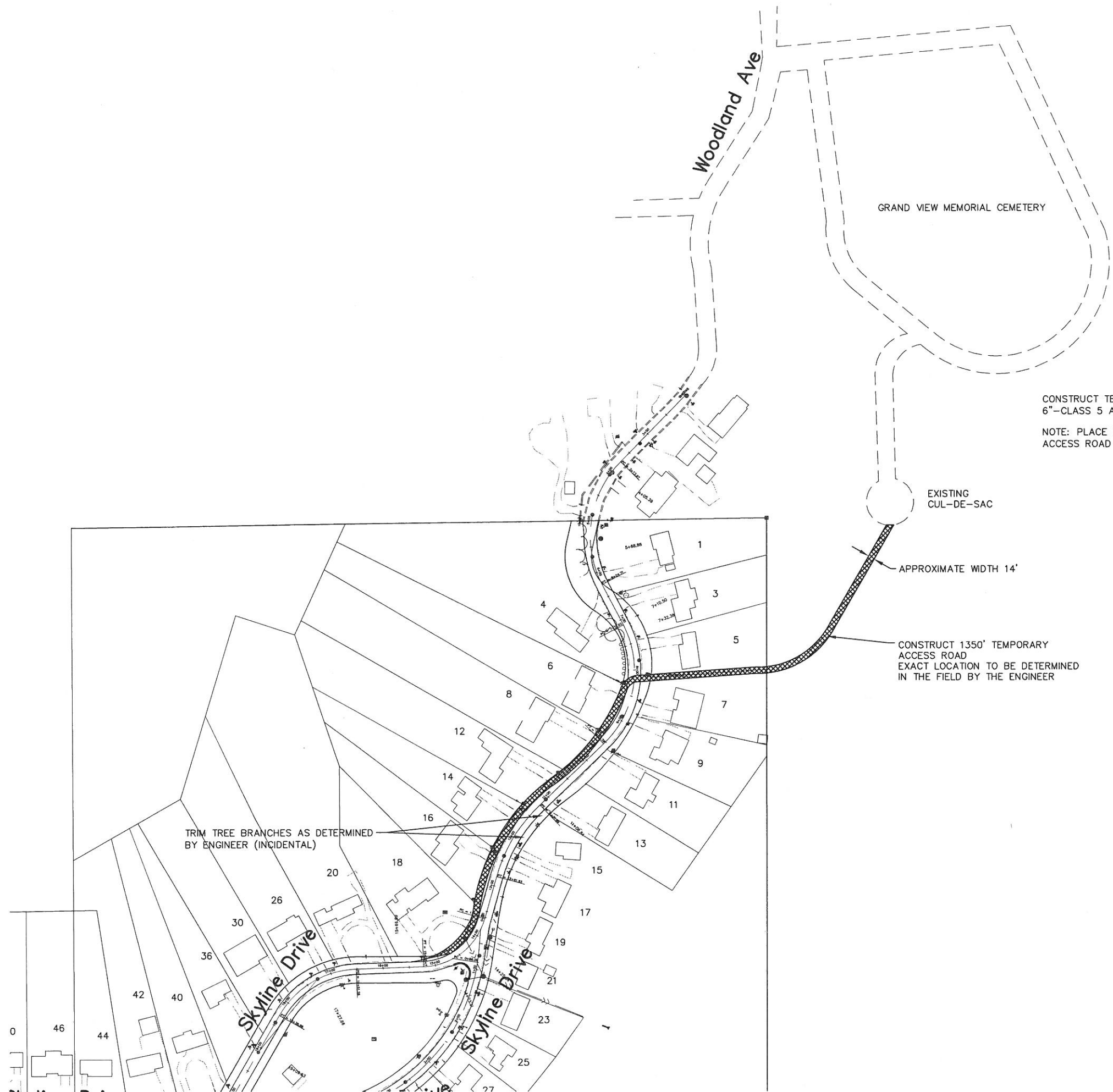
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PRINT NAME: Michael S. Hill
SIGNATURE: *[Signature]*
DATE: 12/19/2004
LIC. NO.: 26914
PROJ. NO. 1365-02-101

R:136502101C603
SHEET NUMBER
C6.08

RECORD PLAN



CONSTRUCT TEMPORARY ACCESS ROAD WITH:
6"-CLASS 5 AGGREGATE BASE

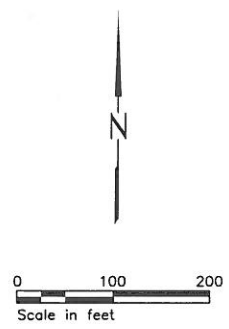
NOTE: PLACE BARRICADES AT EACH END OF TEMPORARY
ACCESS ROAD AT NIGHT. (INCIDENTAL)

EXISTING
CUL-DE-SAC

APPROXIMATE WIDTH 14'

CONSTRUCT 1350' TEMPORARY
ACCESS ROAD
EXACT LOCATION TO BE DETERMINED
IN THE FIELD BY THE ENGINEER

TRIM TREE BRANCHES AS DETERMINED
BY ENGINEER (INCIDENTAL)



REVISION	DATE	BY	DESCRIPTION
ADD TEMPORARY ACCESS ROAD	4/27/04		

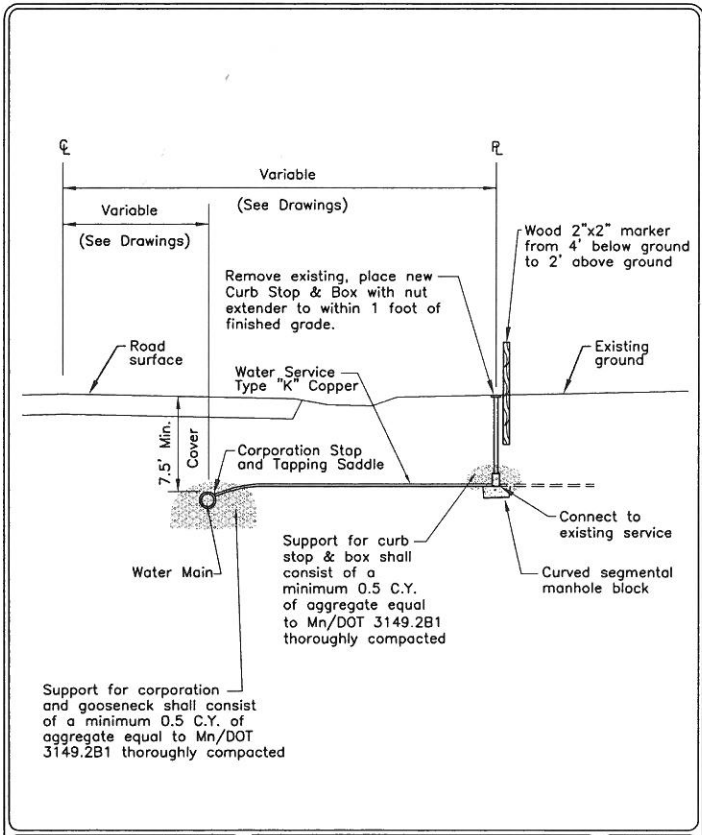
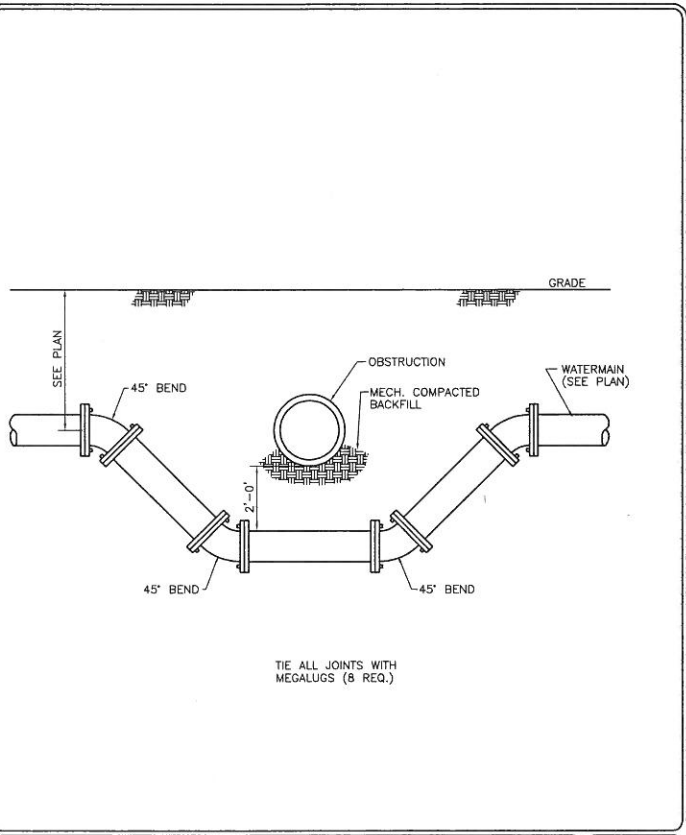
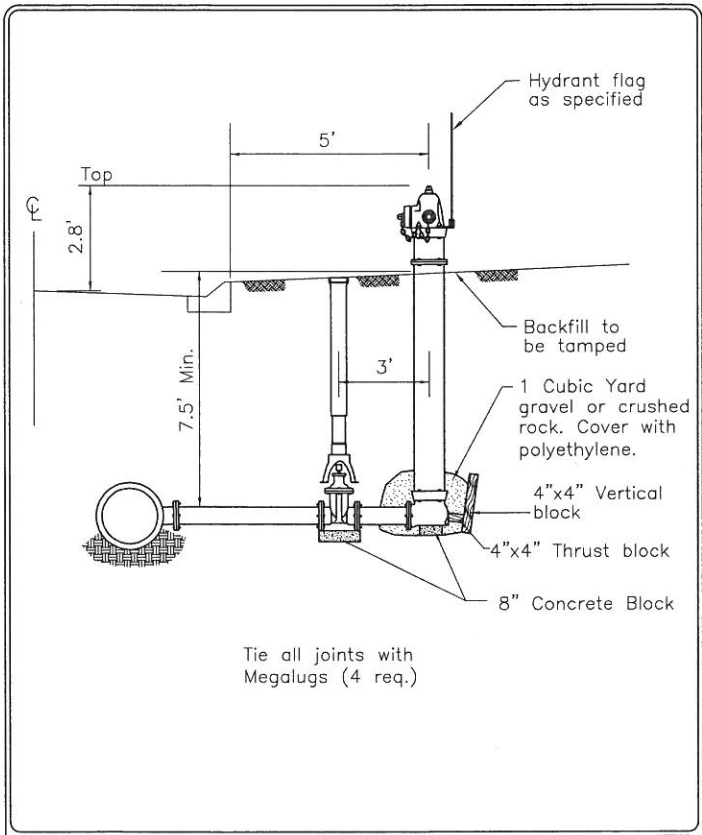
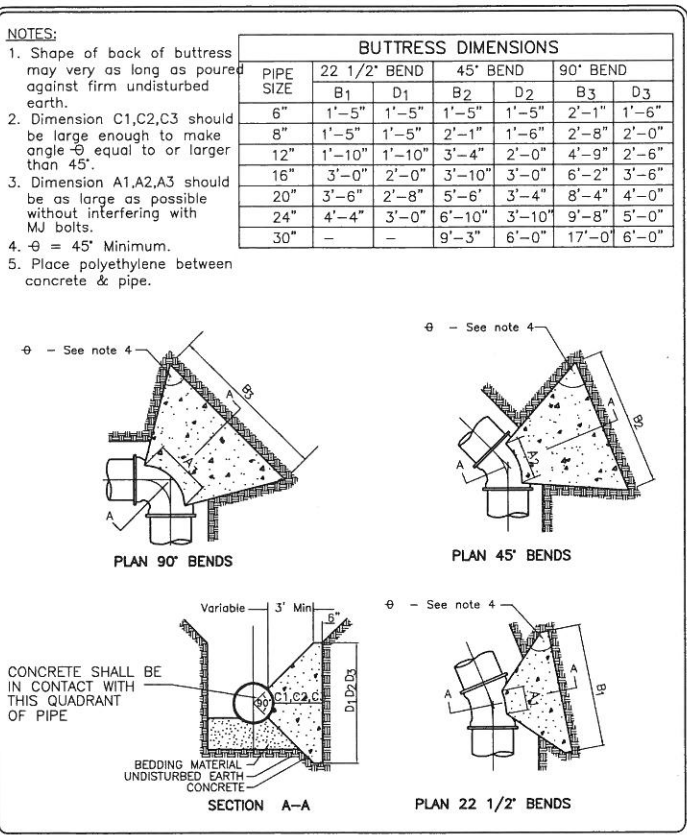
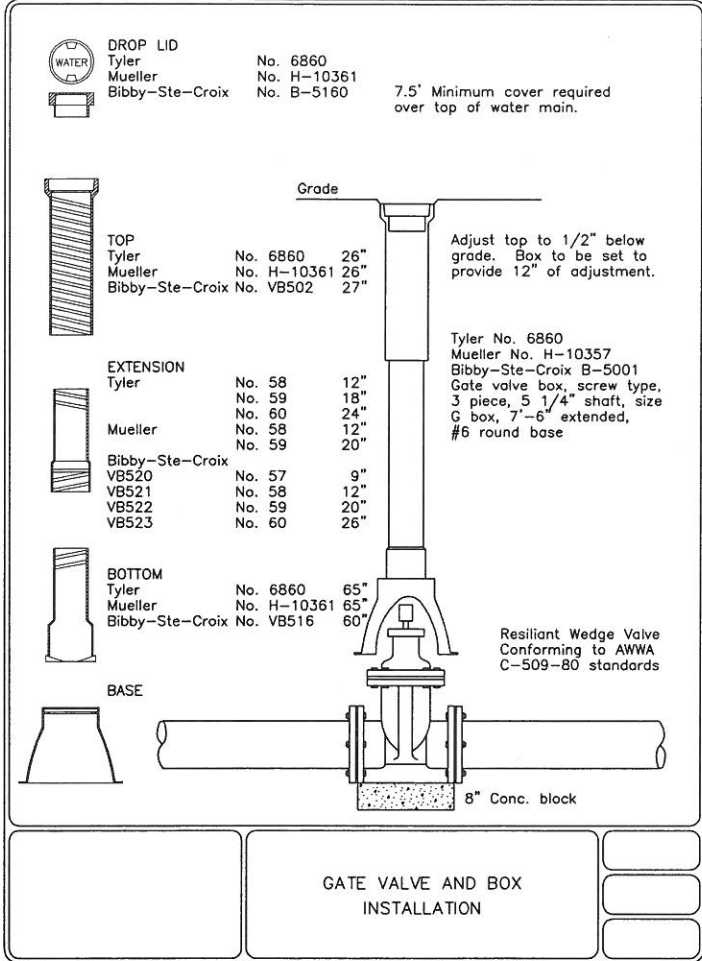
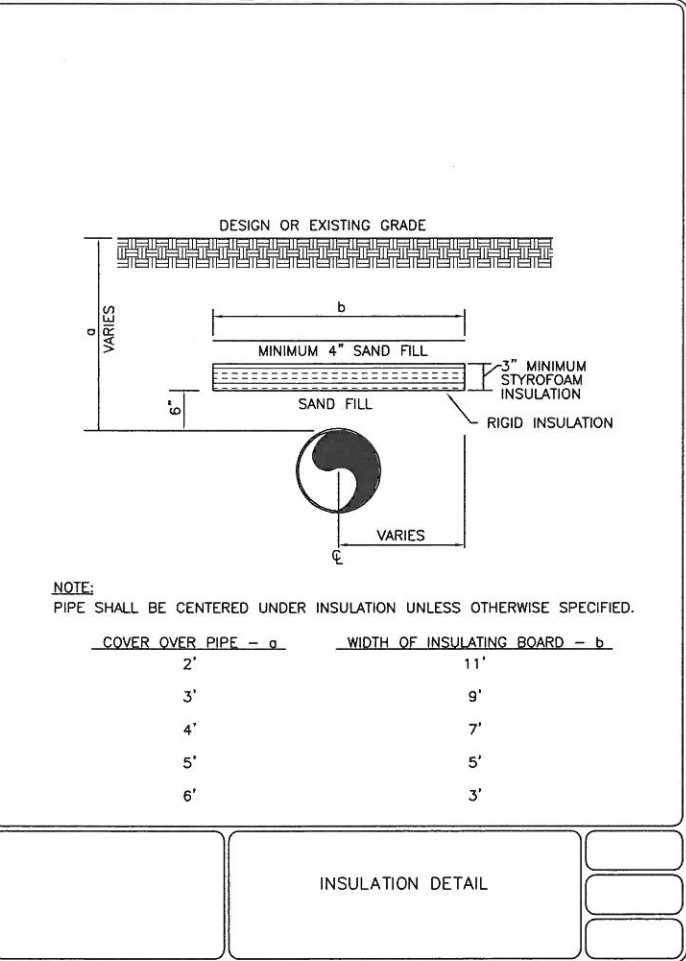
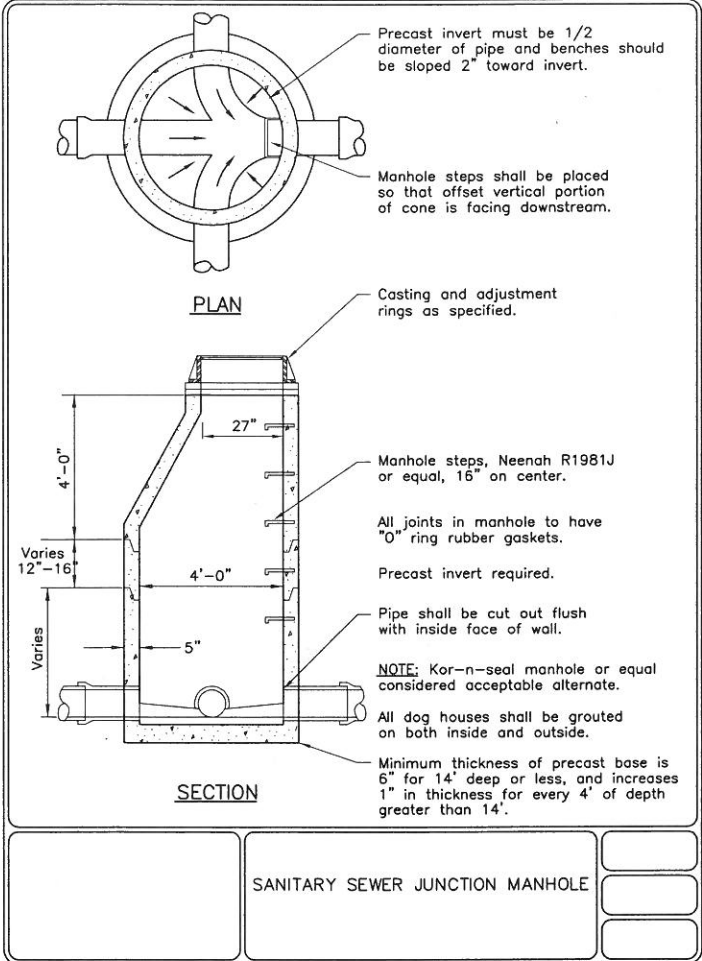
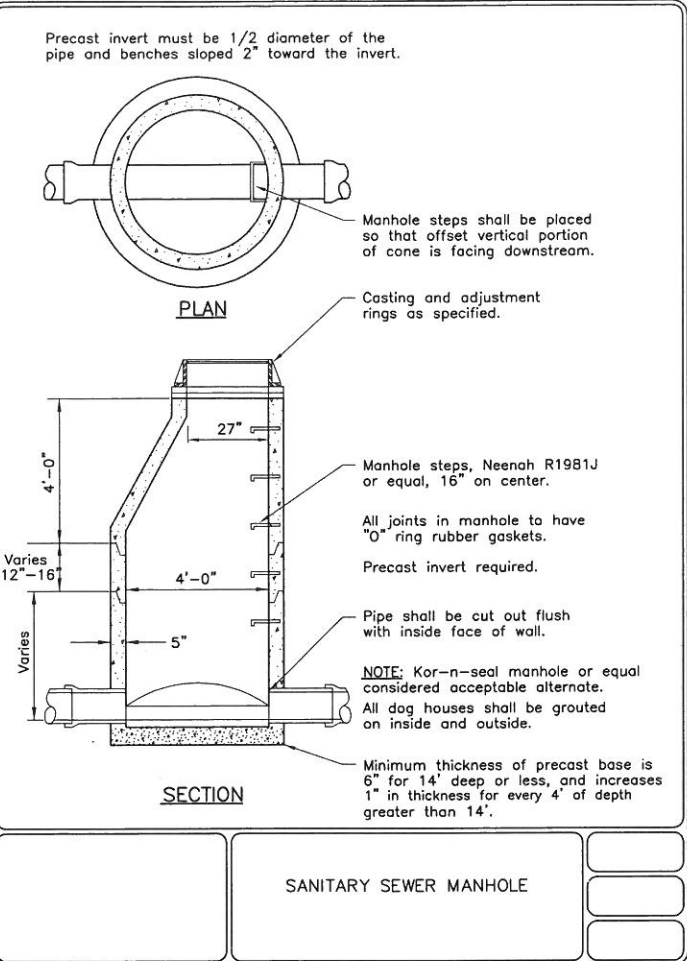
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Roseme
Andersik &
Associates**
Engineers & Architects
www.bonestroo.com

SKYLINE, MINNESOTA
WASTEWATER COLLECTION AND TREATMENT
STREET IMPROVEMENTS
TEMPORARY ACCESS ROAD

R:136502101C606
SHEET NUMBER
C6.09

RECORD PLAN

HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT
WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION
AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER
UNDER THE LAWS OF THE STATE OF MINNESOTA.
PRINT NAME: Michael S. Nil
SIGNATURE: *[Signature]*
DATE: 12/19/2004 LIC. NO. 26914
PROJ. NO. 1365-02-101



SKYLINE, MINNESOTA
WASTEWATER COLLECTION AND TREATMENT IMPROVEMENTS
STANDARD DETAILS

BONESTROO, ROSENE, ANDERLIK & ASSOCIATES, INC. 2003
St. Paul Office
2335 West Highway 36
St. Paul, MN 55113
Phone: 651-636-4600
Fax: 651-636-1311
www.bonestroo.com

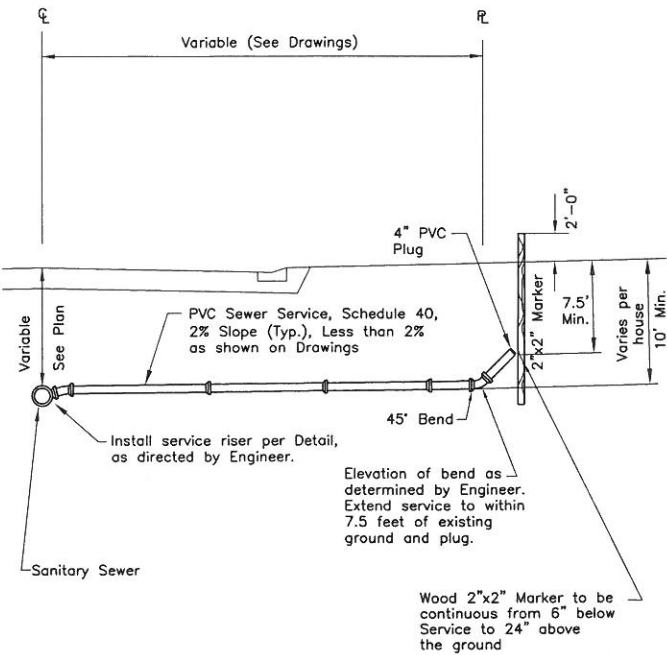
Engineers & Architects

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PRINT NAME: MICHAEL S. NILL
SIGNATURE: [Signature]
DATE: 12/19/2005
LIC. NO.: 26914

PROJ. NO. 136502-02-101

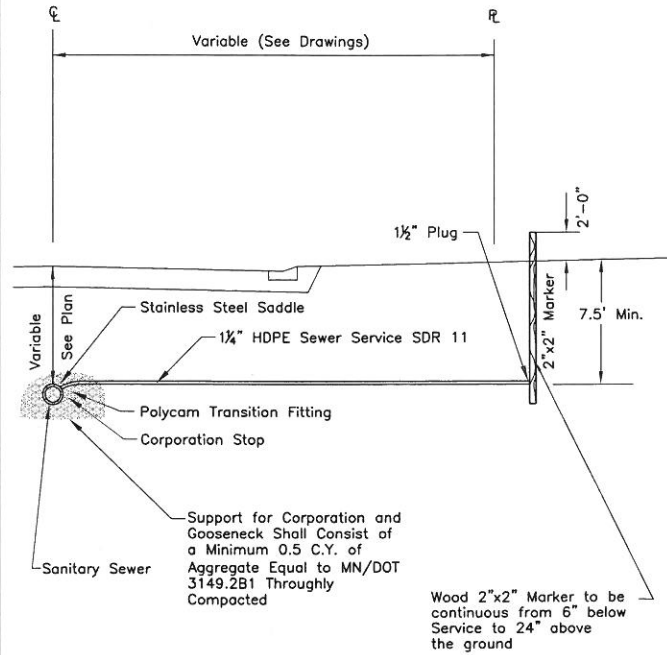
R:136502101C801
SHEET NUMBER
C8.01

NOTE: ALL FITTINGS AND APPURTENANCES FROM SANITARY SEWER MAIN TO 4" PVC PLUG IS INCIDENTAL.

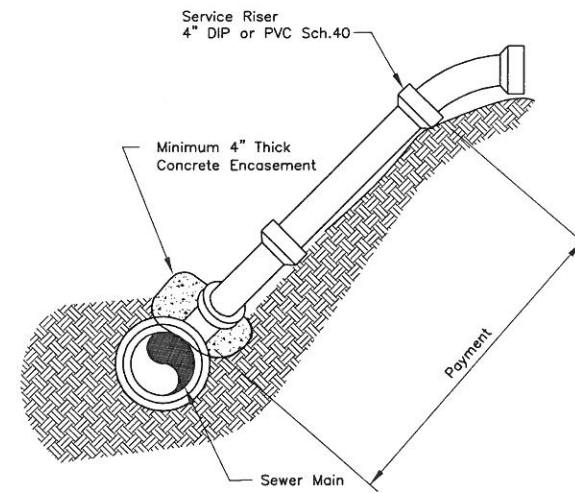


4" PVC SEWER SERVICE CONNECTION

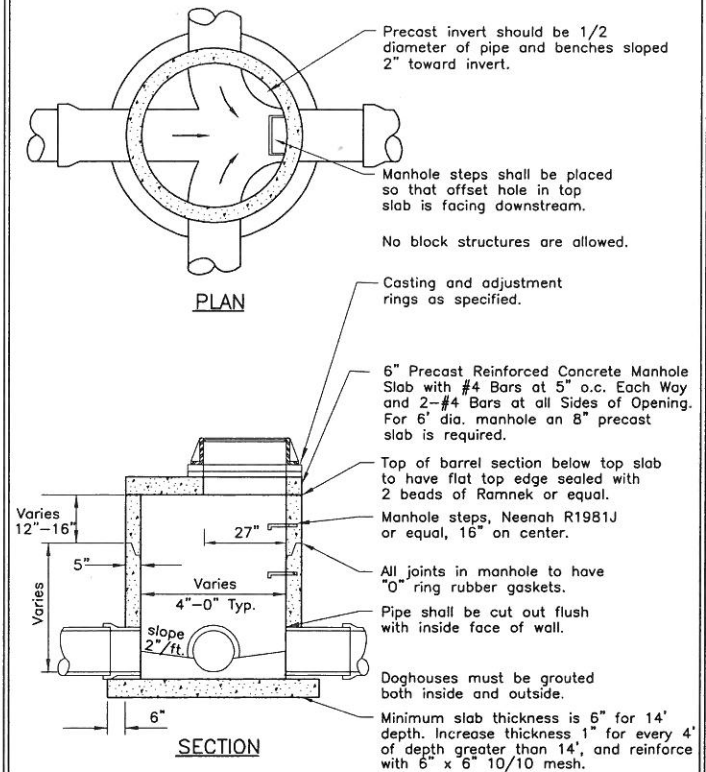
NOTE: ALL FITTINGS AND APPURTENANCES FROM SANITARY SEWER MAIN TO PLUG IS INCIDENTAL.



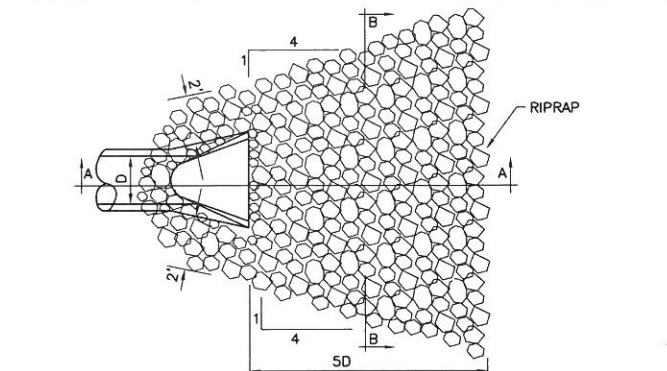
1 1/4" HDPE SEWER SERVICE CONNECTION



SERVICE RISER



STORM SEWER JUNCTION MANHOLE WITH REINFORCED TOP SLAB

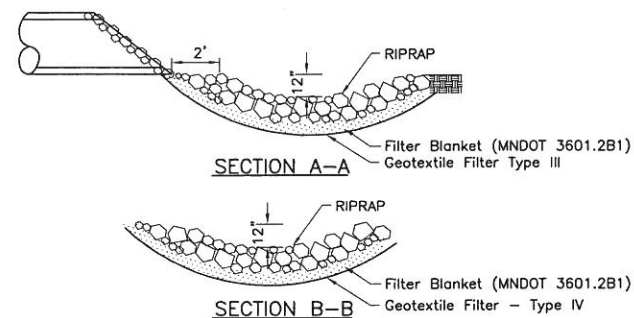


RIPRAP REQUIREMENTS

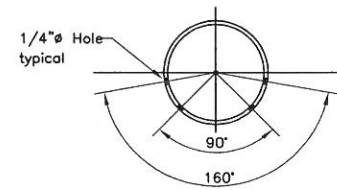
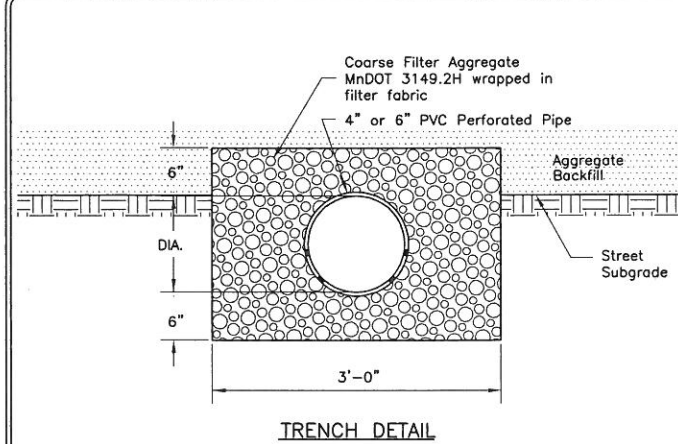
12" TO 24"	8 to 12 CY	CL.3
27" TO 33"	14 to 20 CY	CL.3
36" TO 48"	23 to 38 CY	CL.3
54" AND UP	62 CY and up	CL.4

(One cubic yard is approximately 2,800 lbs.)

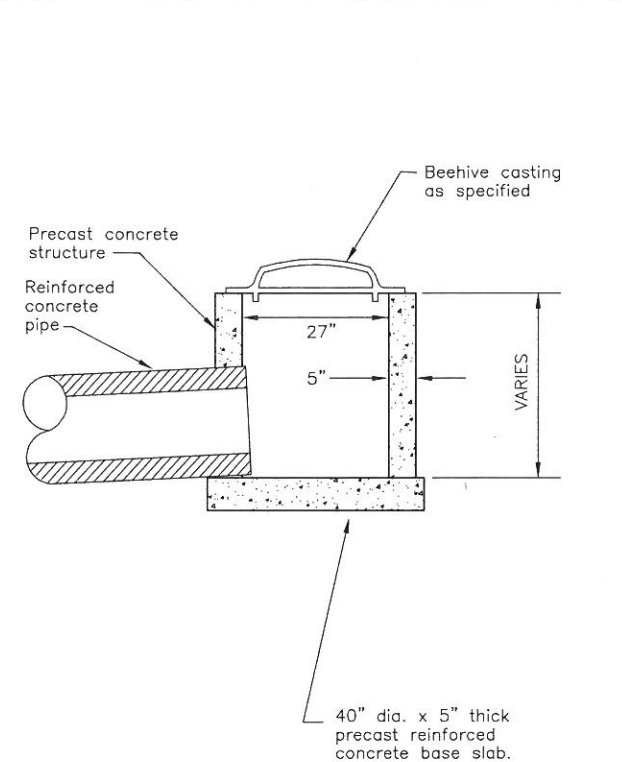
NOTE: FILTER BLANKET REQUIRED UNDER RIP RAP OR 2 LAYERS OF 500X MIRAFI FABRIC OR EQUAL



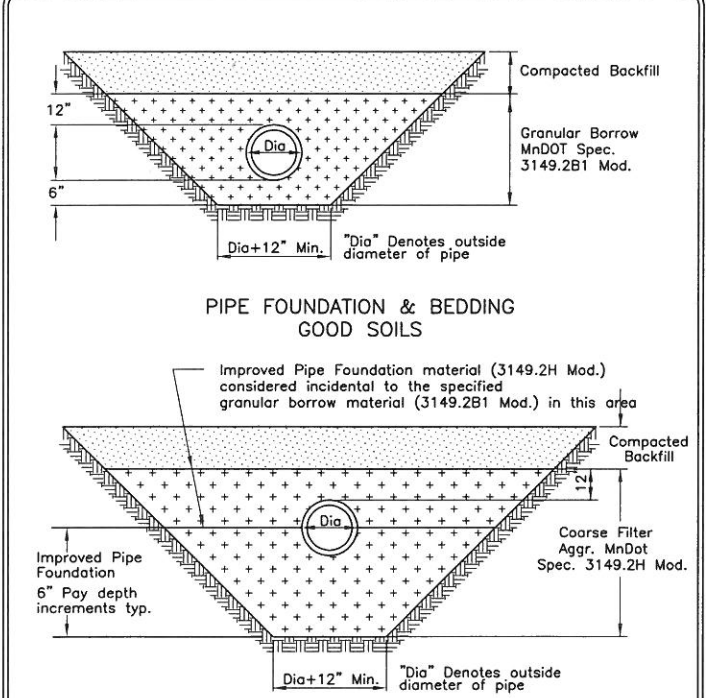
RIPRAP AT OUTLETS



PVC PERFORATED PIPE



PRECAST 27" SHALLOW DEPTH BEEHIVE



PIPE FOUNDATION & BEDDING METHODS FOR PVC AND HDPE

HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

PRINT NAME: MICHAEL S. NILL

SIGNATURE: [Signature]

DATE: 12/19/2006

LIC. NO.: 26914

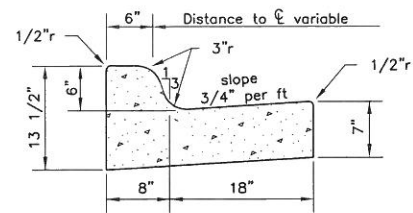
St. Paul Office
2335 West Highway 36
St. Paul, MN 55113
Phone: 651-636-4600
Fax: 651-636-1311

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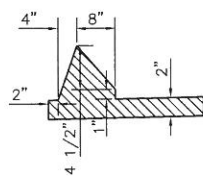
SKYLINE, MINNESOTA
WASTEWATER COLLECTION AND TREATMENT IMPROVEMENTS STANDARD DETAILS

R:136502101C801
SHEET NUMBER
C8.02

RECORD PLAN



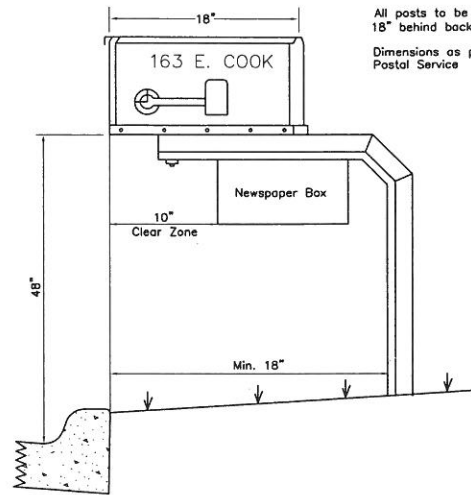
MnDOT B618



6" SHOE FORMED
BITUMINOUS CURB
INTERGAL W/ MAT

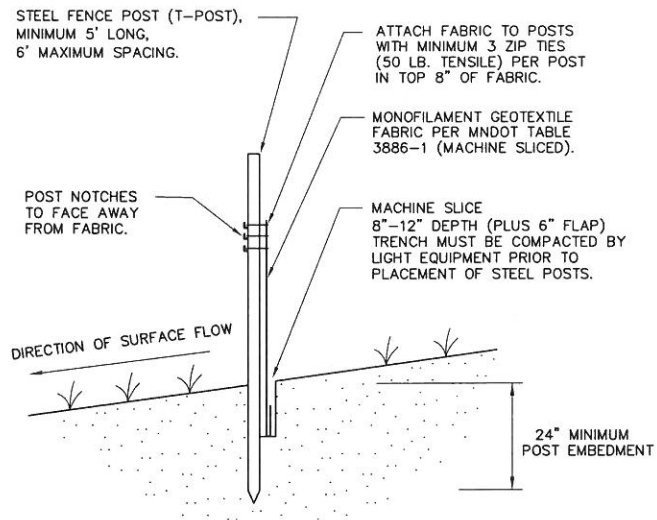
CURB AND GUTTER

Height - 48 Inches above street level
Have Box extend as far in front of support post as possible. (This prevents possible snow plow damage).
Address must be on side of box from which carrier approaches in letters about one inch high. (Or on front where boxes are grouped).
Box must be located so carrier can serve without leaving vehicle.



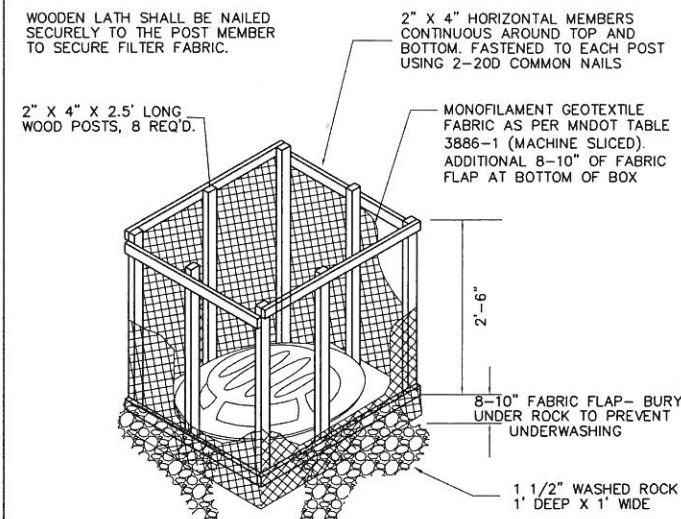
NOTES:
Mailbox should not extend beyond back of curb.
All posts to be a minimum of 18" behind back of curb.
Dimensions as per U.S. Postal Service

MAIL BOX INSTALLATION



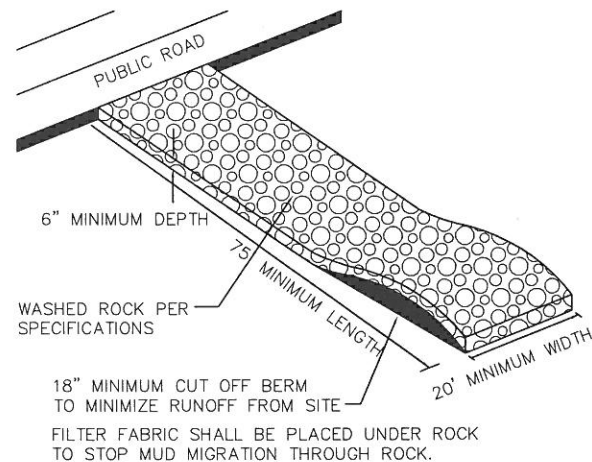
NOTE:
THE MACHINE SLICED METHOD (THIS DETAIL) IS THE STANDARD SILT FENCE INSTALLATION METHOD. HEAVY-DUTY (ERO-1B) OR STANDARD (ERO-1C) SILT FENCE INSTALLATION METHODS SHOULD ONLY BE USED WHEN APPROVED OR DIRECTED BY THE CITY.

SILT FENCE
MACHINE SLICED



NOTES:
CONTRACTOR SHALL CONSTRUCT SILT BOX TO FIT AROUND THE INLET STRUCTURE WITH 6" MINIMUM CLEARANCE TO EDGES OF STRUCTURE. SILT BOX TO BE PLACED ON AN EVEN SURFACE 6" BELOW STRUCTURE OPENING. TOP OF SILT BOX TO EXTEND 18" MINIMUM ABOVE EXISTING GRADE.

INLET PROTECTION
SILT BOX FOR
BEEHIVE CASTING



ROCK CONSTRUCTION ENTRANCE

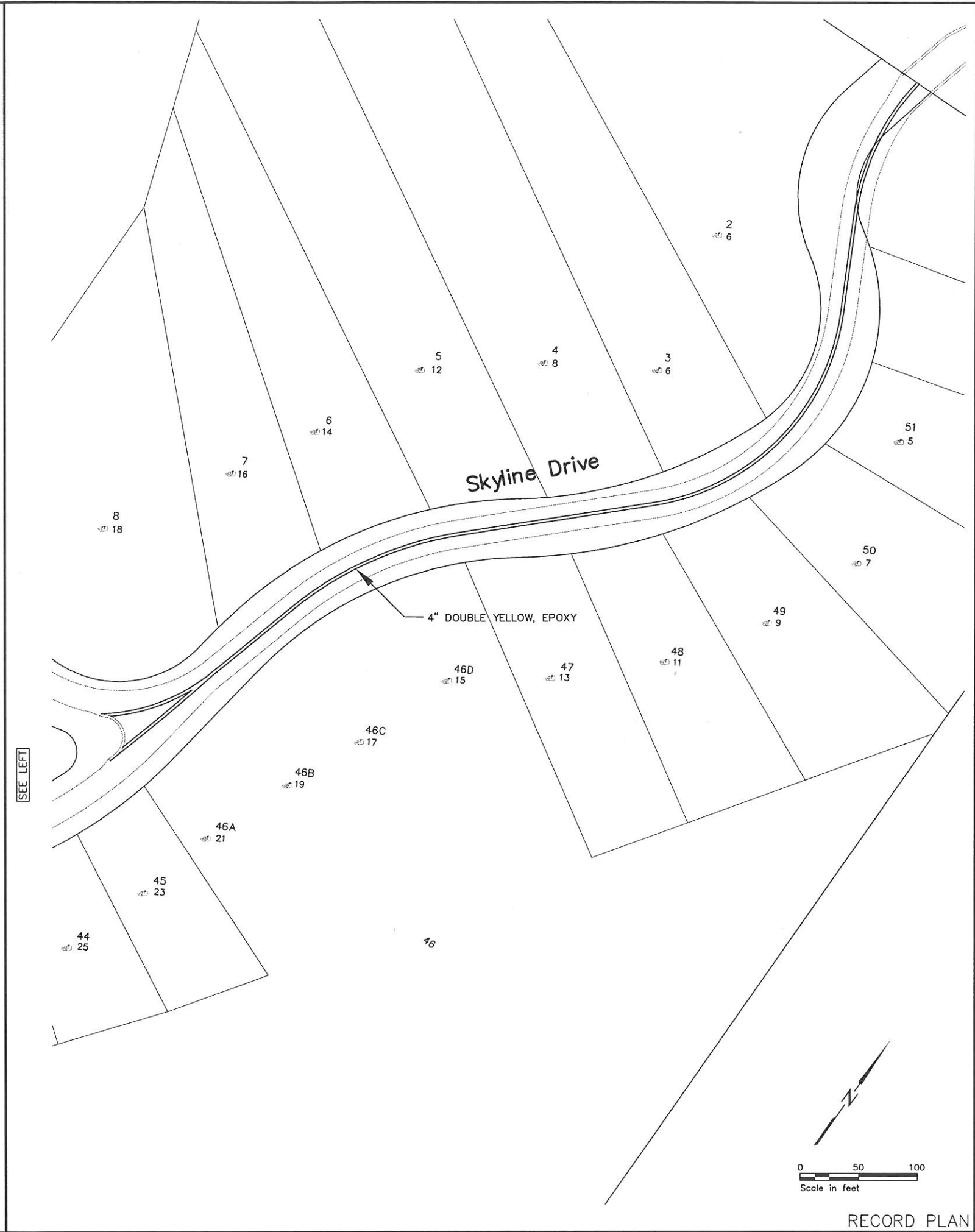
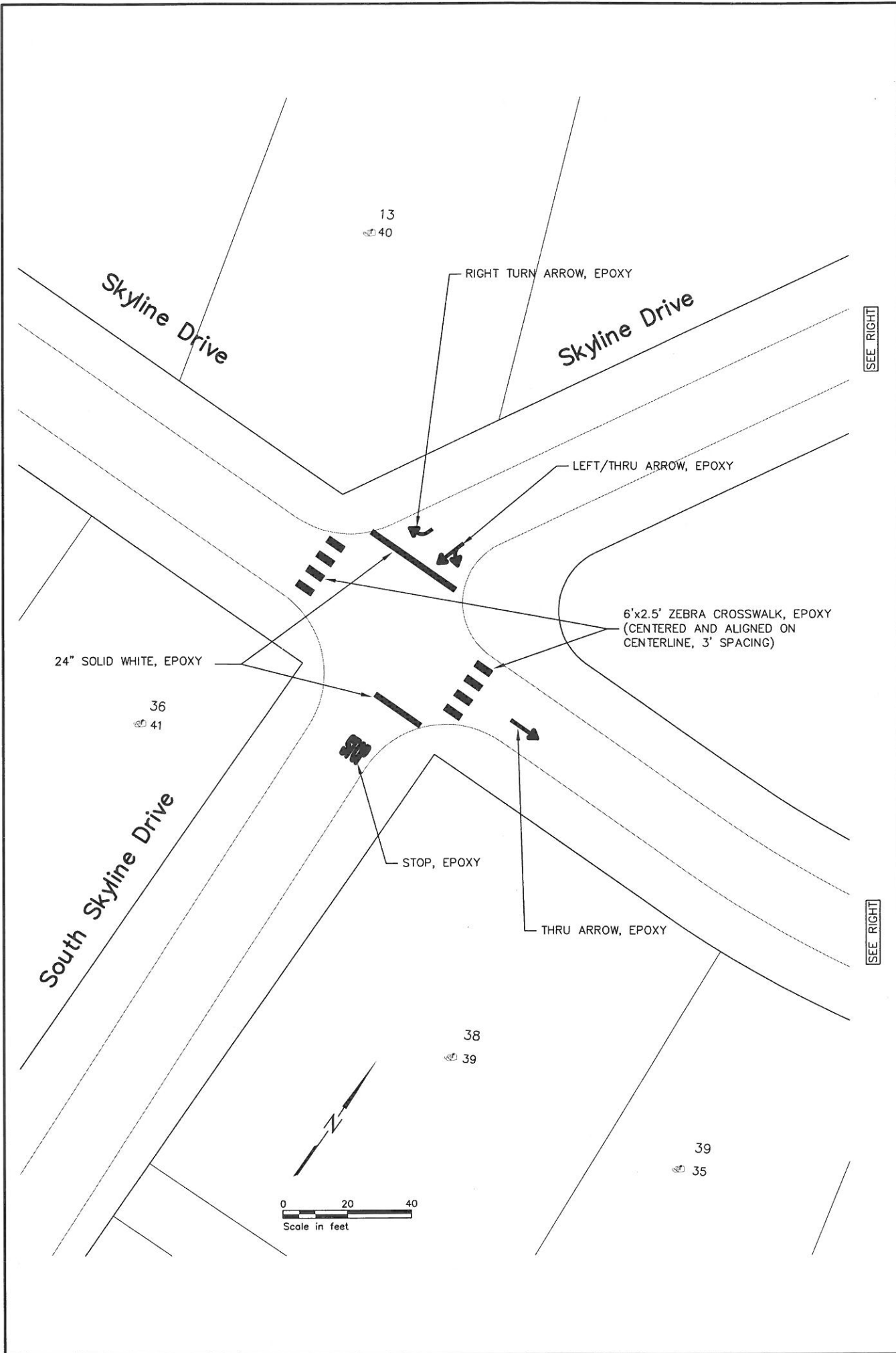
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
PRINT NAME: MICHAEL S. NELL
SIGNATURE:
DATE: 12/19/2014
LIC. NO.: 26914
PROJ. NO. 1365-02-101

St. Paul Office
2335 West Highway 36
St. Paul, MN 55113
Phone: 651-636-4600
Fax: 651-636-1311

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SKYLINE, MINNESOTA
WASTEWATER COLLECTION AND TREATMENT
IMPROVEMENTS
STANDARD DETAILS

R:136502101C801
SHEET NUMBER
C8.03



I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. PRINT NAME: MICHAEL S. NELL SIGNATURE: <i>[Signature]</i> DATE: 12/19/2006 LIC. NO. 26914	
St. Paul Office 2335 West Highway 36 St. Paul, MN 55113 Phone: 651-636-4600 Fax: 651-636-1311	
Bonestro Rosene Anderslik & Associates Engineers & Architects www.bonestro.com	
SKYLINE, MINNESOTA WASTEWATER COLLECTION AND TREATMENT IMPROVEMENTS PAVEMENT MARKINGS	
R:136502101T101 SHEET NUMBER T1.01	

RECORD PLAN