

SV-3-6 TO SV-3-7
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-3-7
 X: 478868.740
 Y: 141482.155

SV-3-7 TO SV-3-9
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-3-7 TO SV-3-8
 1-1 1/4" NMC (HDPE)
 1-48 SM FIBER OPTIC CABLE
 1-1/C #12

SV-3-8
 X: 478915.873
 Y: 141423.468

CAC-3-D TO SV-3-8
 1-1 1/4" NMC HDPE (CORE DRILL)
 1-48 SM FIBER OPTIC CABLE
 1-1/C #12

SV-3-7 TO SV-3-9
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

C.S.A.H. NO. 3

C.S.A.H. NO. 3

BECAN HILL RD.

WOODHILL RD.

GLENVIEW DR.

EDEN PRAIRIE RD.

KINSEL RD.

STEWART LN.



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Ryan T. Allers
 RYAN T. ALLERS, LICENSED PROFESSIONAL ENGINEER

45896 06/01/2020
 LICENSE NO. DATE

DESIGN BY: J WANNER
 CAD BY: J WANNER
 CHECKED BY: R ALLERS
 LAST REVISION: / /

CSAH 3 PLAN

2020 ATMS / HENNEPIN COUNTY PROJECT 164402

S.P. 027-030-047

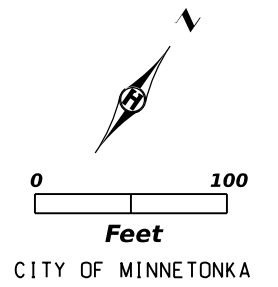
SHEET

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SEE SHEET 3 FOR GENERAL NOTES.

SV-3-7 TO SV-3-9
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-3-9
 X: 480752.712
 Y: 142954.558

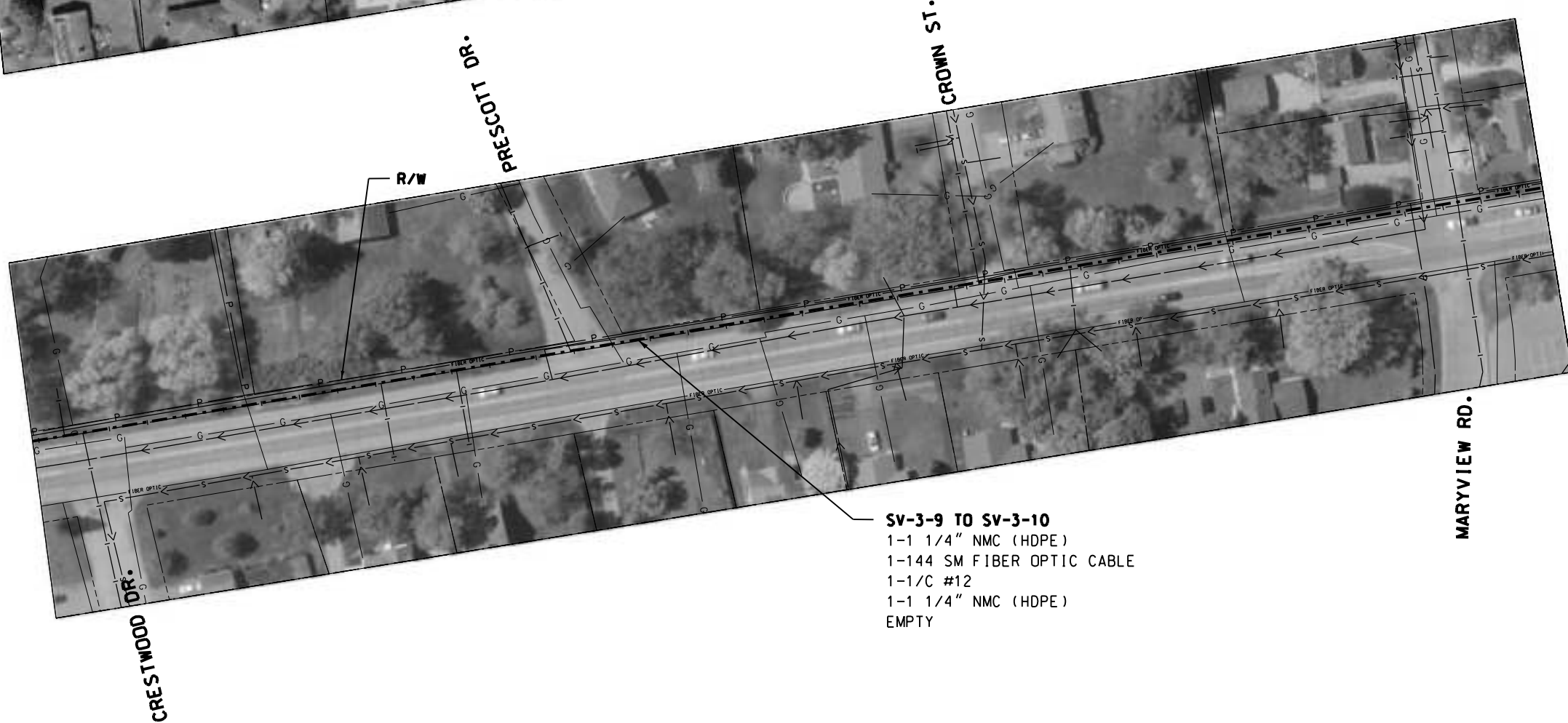


C.S.A.H. NO. 3



SV-3-9 TO SV-3-10
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

C.S.A.H. NO. 3



SV-3-9 TO SV-3-10
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SEE SHEET 3 FOR
 GENERAL NOTES.



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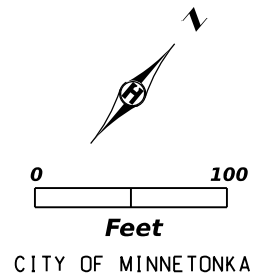
CSAH 3 PLAN

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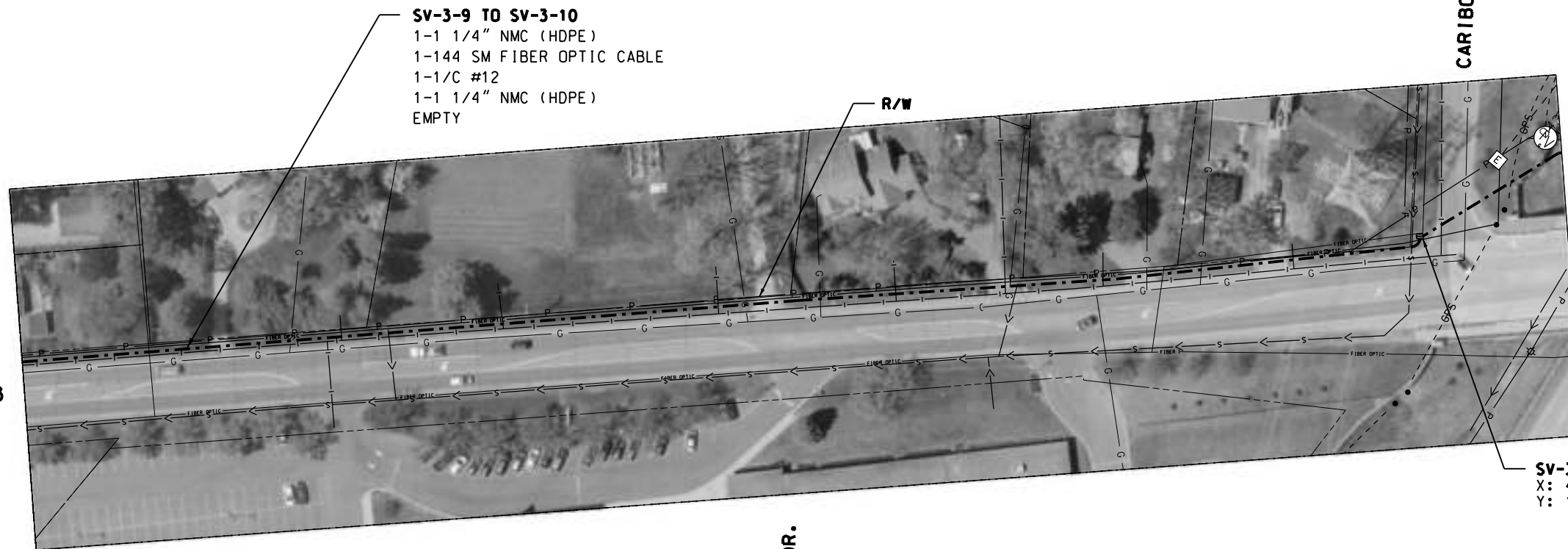
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SHEET

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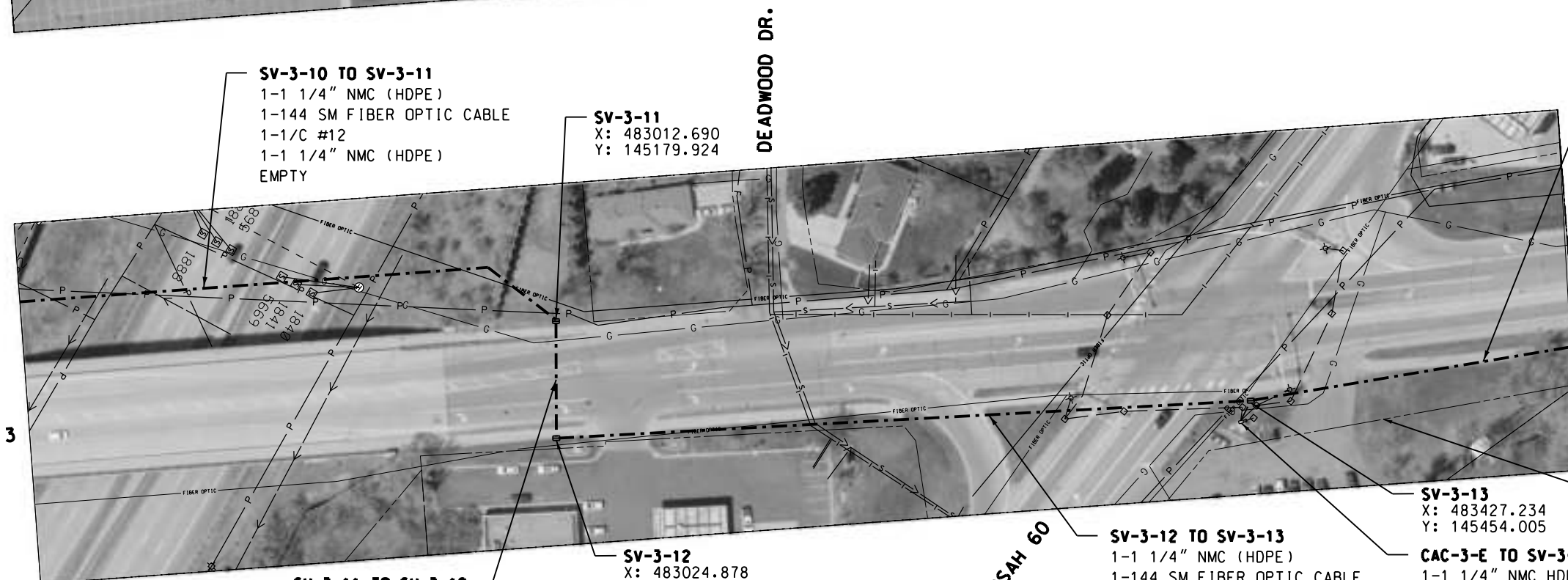
C.S.A.H. NO. 3



SV-3-9 TO SV-3-10
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-3-10
 X: 482673.047
 Y: 144835.693

C.S.A.H. NO. 3



SV-3-10 TO SV-3-11
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-3-11
 X: 483012.690
 Y: 145179.924

SV-3-12
 X: 483024.878
 Y: 145072.269

SV-3-11 TO SV-3-12
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-3-13 TO SV-3-14
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-3-13
 X: 483427.234
 Y: 145454.005

SV-3-12 TO SV-3-13
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

CAC-3-E TO SV-3-13
 1-1 1/4" NMC HDPE (CORE DRILL)
 1-48 SM FIBER OPTIC CABLE
 1-1/C #12

SEE SHEET 3 FOR GENERAL NOTES.



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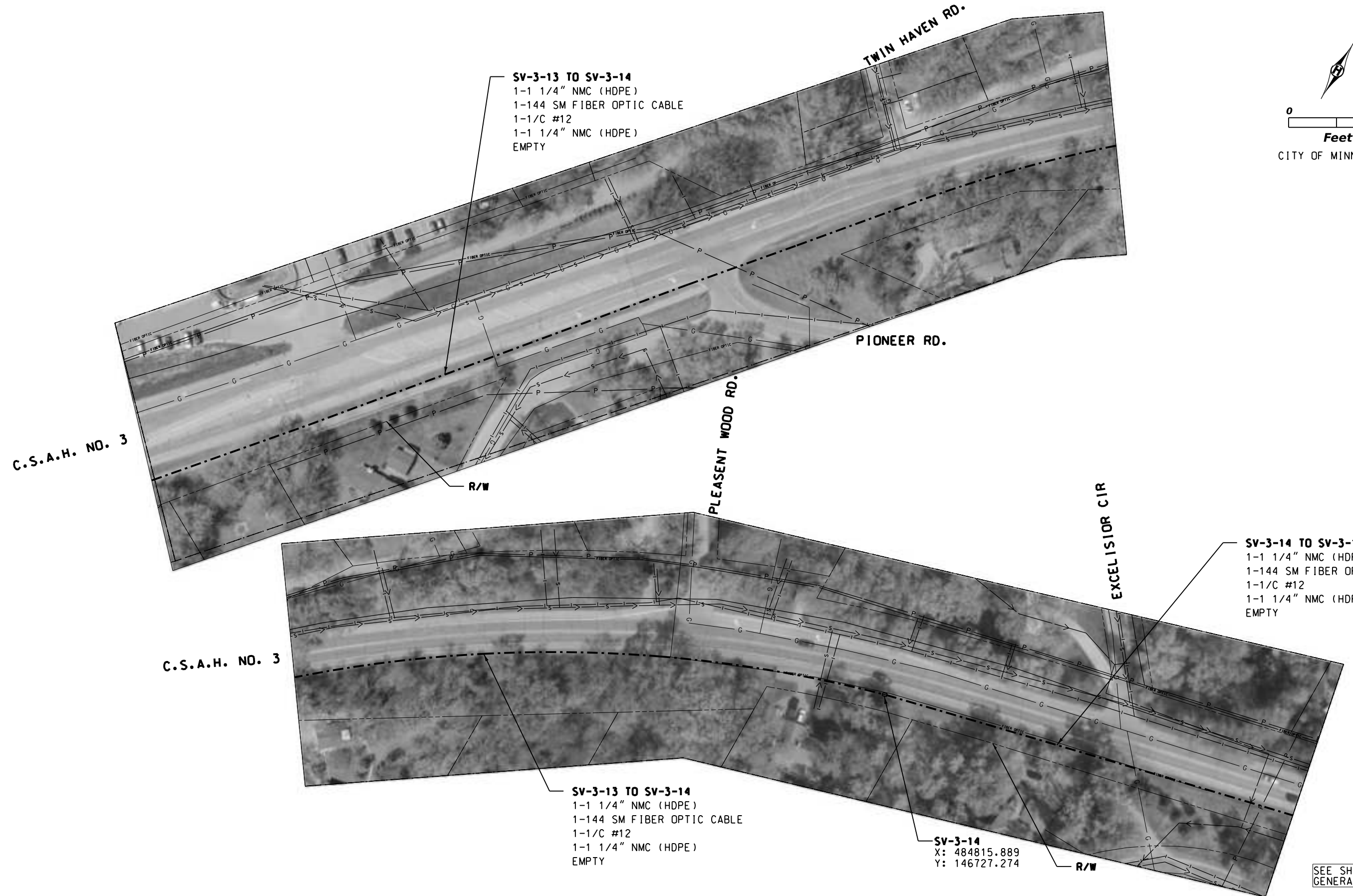
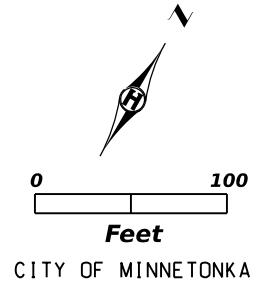
2020 ATMS / HENNEPIN COUNTY PROJECT 164402

S.P. 027-030-047

SHEET

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SV-3-13 TO SV-3-14
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-3-14 TO SV-3-15
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-3-13 TO SV-3-14
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-3-14
 X: 484815.889
 Y: 146727.274

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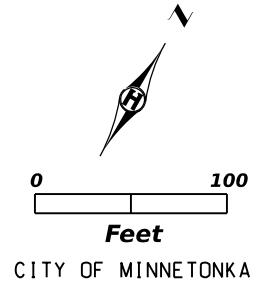
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CSAH 3 PLAN

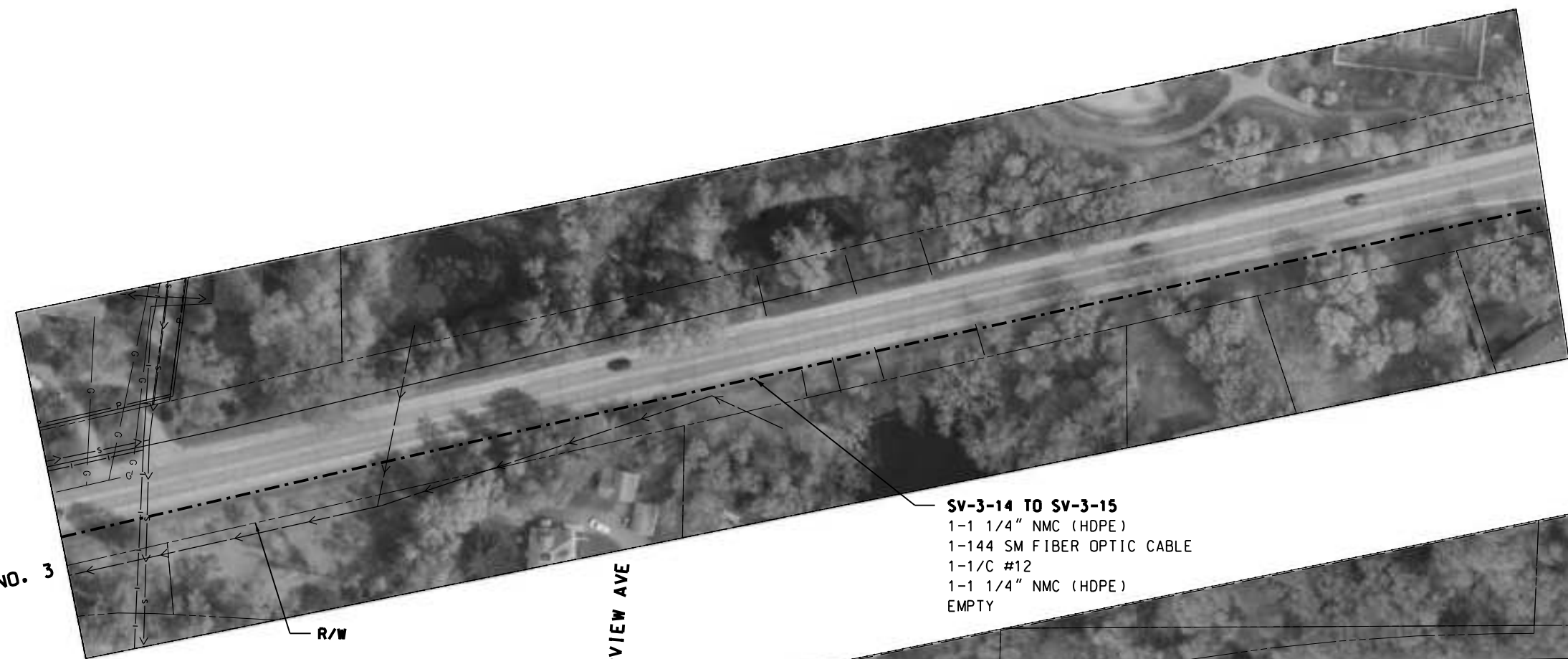
2020 ATMS / HENNEPIN COUNTY PROJECT 164402
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SHEET

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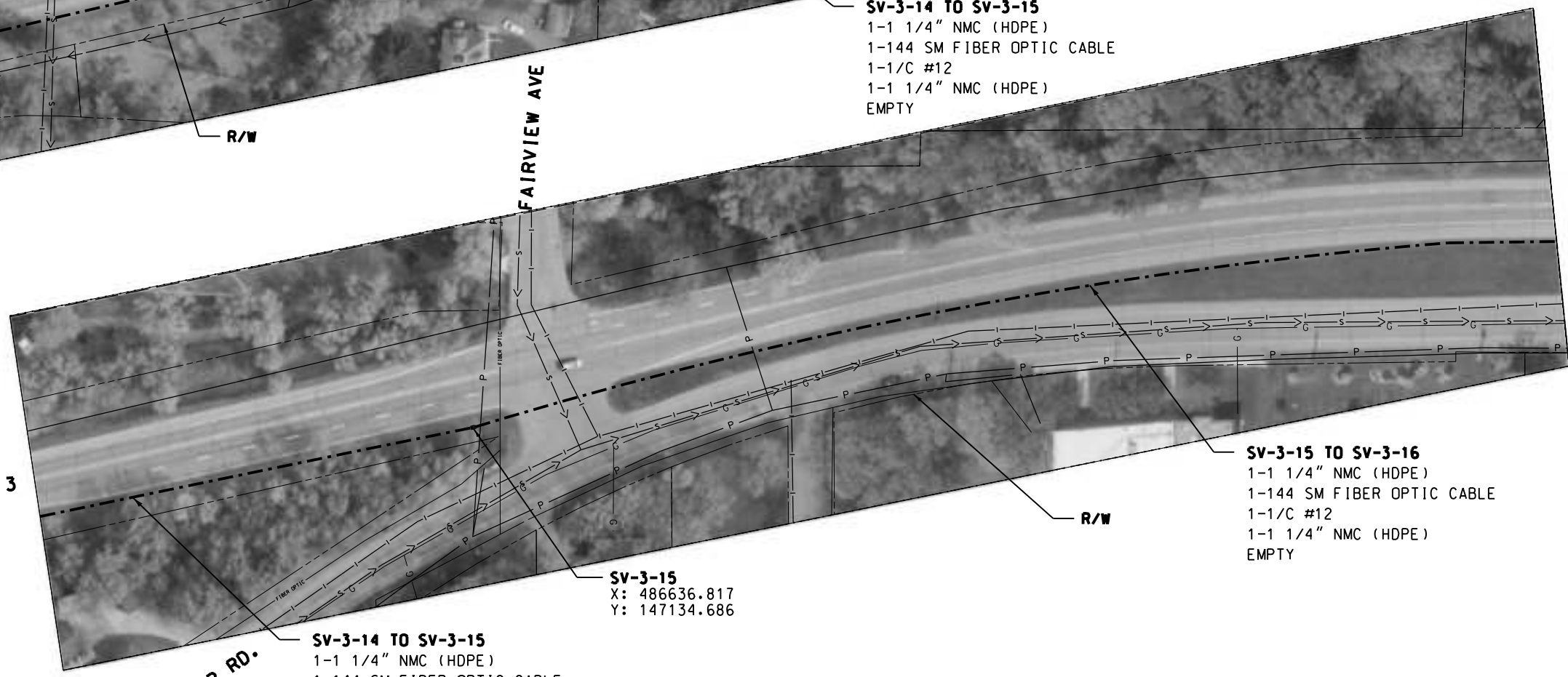


C.S.A.H. NO. 3



SV-3-14 TO SV-3-15
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

C.S.A.H. NO. 3



SV-3-15 TO SV-3-16
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-3-15
 X: 486636.817
 Y: 147134.686

SV-3-14 TO SV-3-15
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

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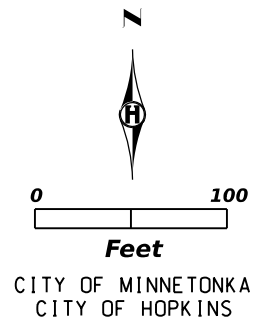
CSAH 3 PLAN

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S.P. 027-030-047

SHEET

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SV-3-15 TO SV-3-16
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

CAC-3-F TO SV-3-16 (INPLACE)
 NO FIBER TERMINATION BOX
 REQUIRED AT CSAH 3 / CSAH 61

R/W

CSAH 61

20TH AVE



SV-3-16 (INPLACE)
 CONNECT TO INPLACE FIBER
 CONNECT TO INPLACE SPLICE VAULT

SV-3-16 TO SV-3-17
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

R/W

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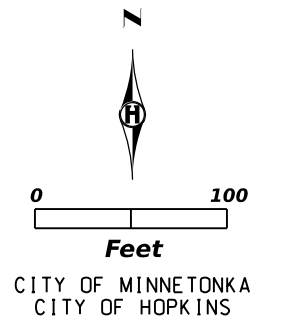
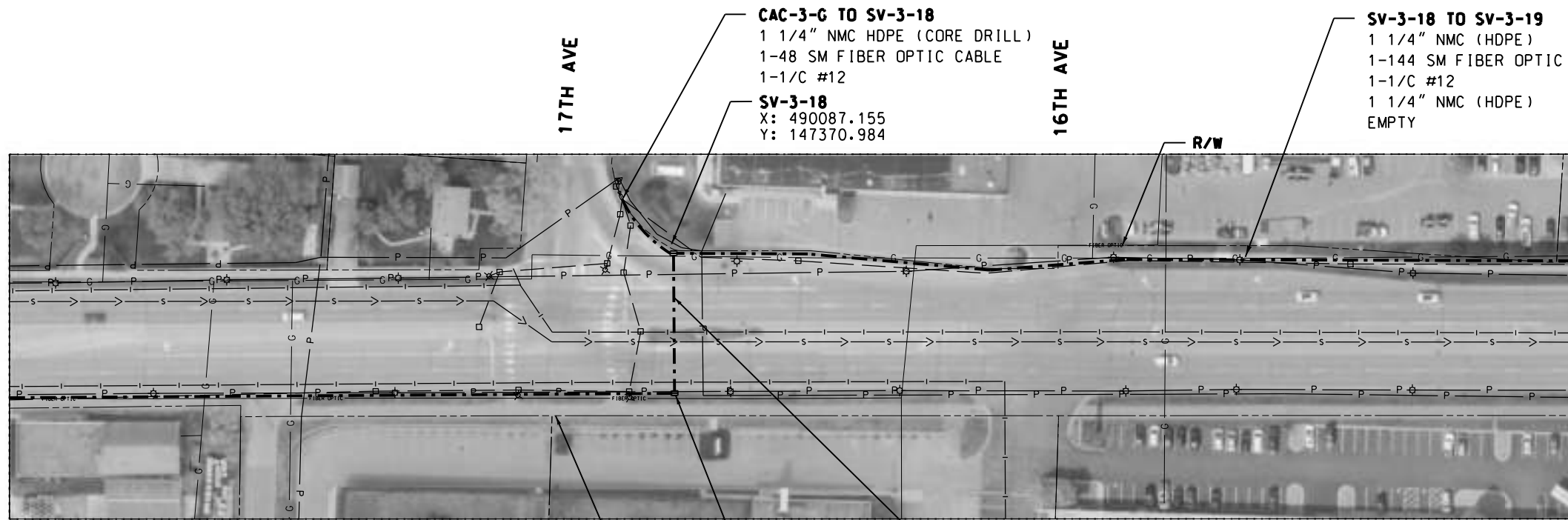
CSAH 3 PLAN

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 S.P. 027-030-047

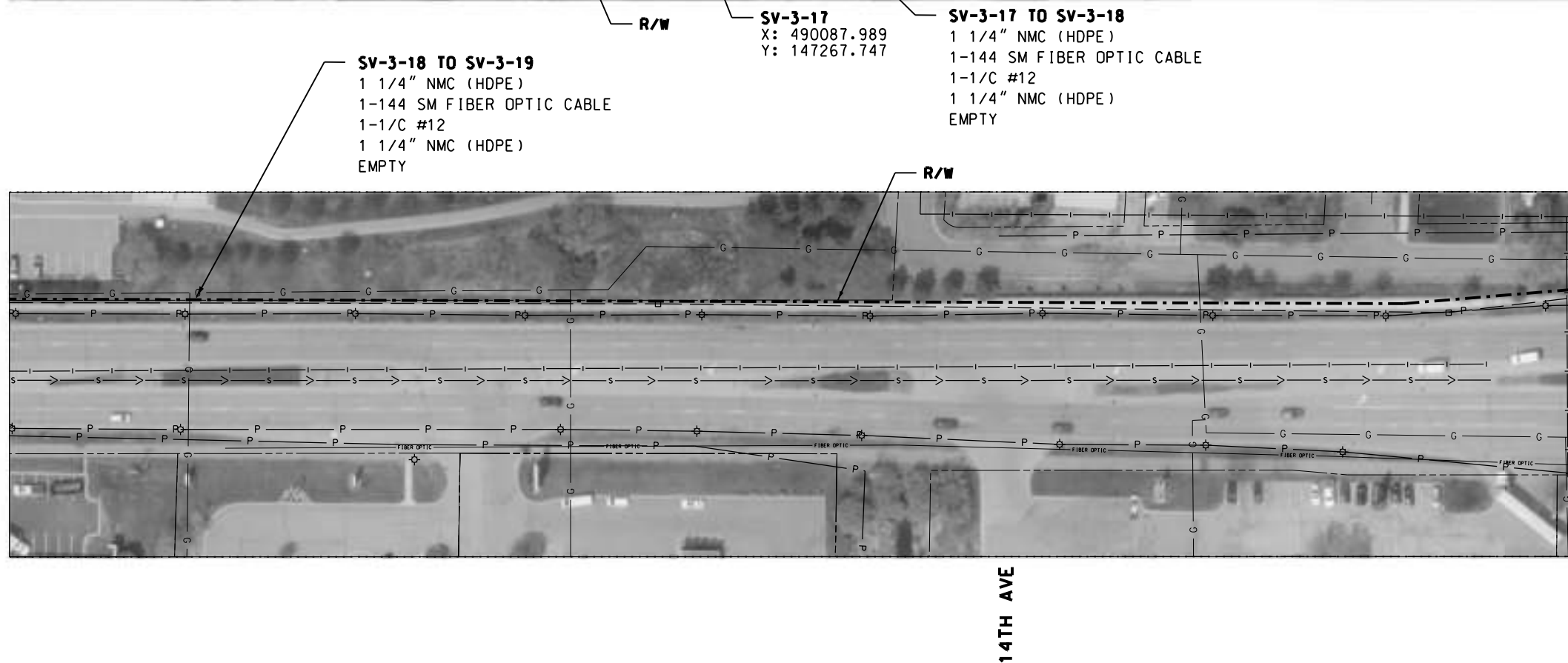
SHEET

58
104

C.S.A.H. NO. 3



C.S.A.H. NO. 3



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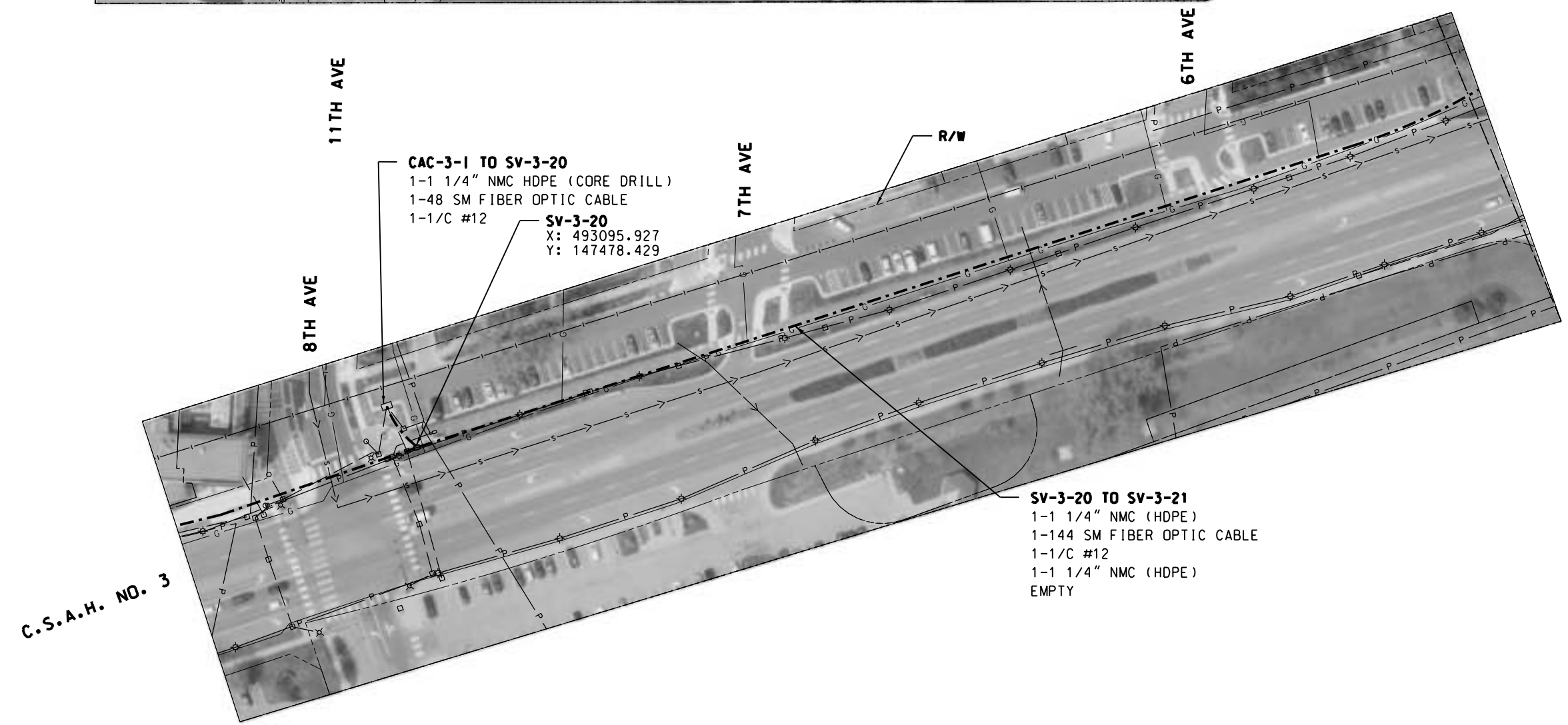
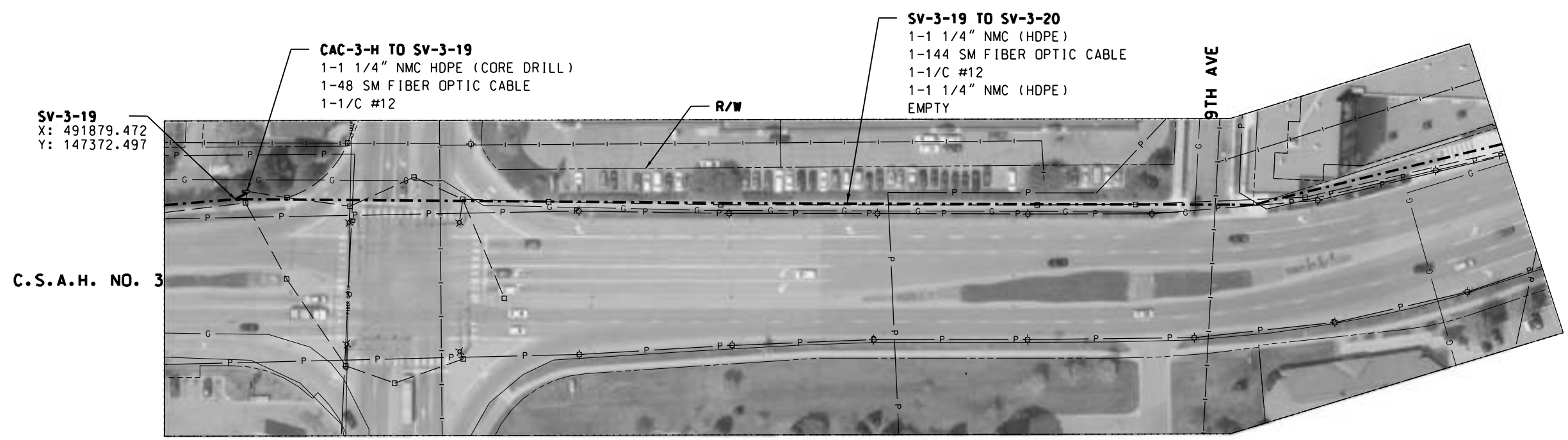
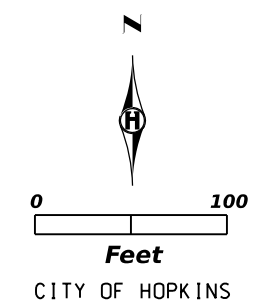
Ryan T. Allers
 RYAN T. ALLERS, LICENSED PROFESSIONAL ENGINEER

45896 06/01/2020
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CSAH 3 PLAN
 2020 ATMS / HENNEPIN COUNTY PROJECT 164402
 S.P. 027-030-047

SHEET
 59
 104



SEE SHEET 3 FOR GENERAL NOTES.



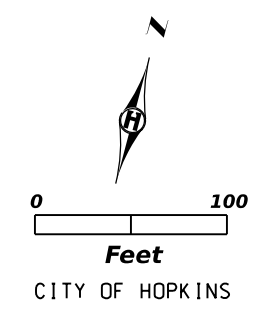
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CSAH 3 PLAN
 2020 ATMS / HENNEPIN COUNTY PROJECT 164402
 S.P. 027-030-047

SHEET
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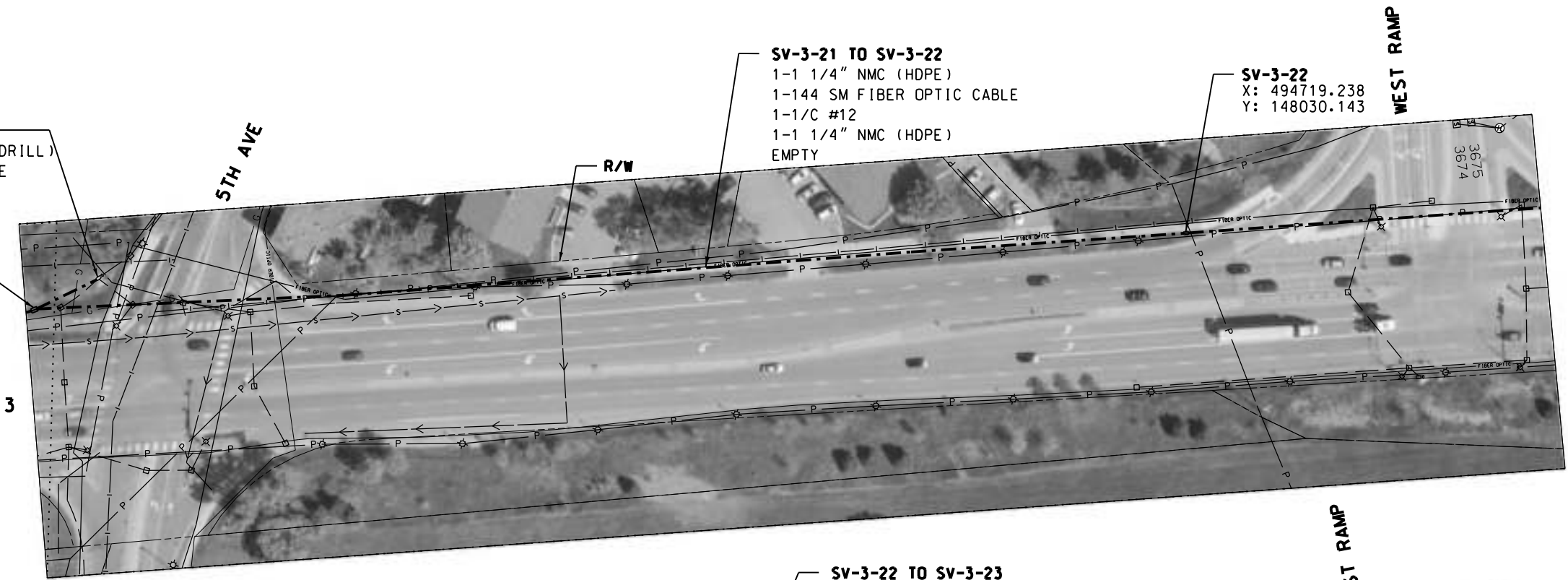


CAC-3-J TO SV-3-21
 1-1 1/4" NMC HDPE (CORE DRILL)
 1-48 SM FIBER OPTIC CABLE
 1-1/C #12
SV-3-21
 X: 493930.850
 Y: 147761.571

SV-3-21 TO SV-3-22
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

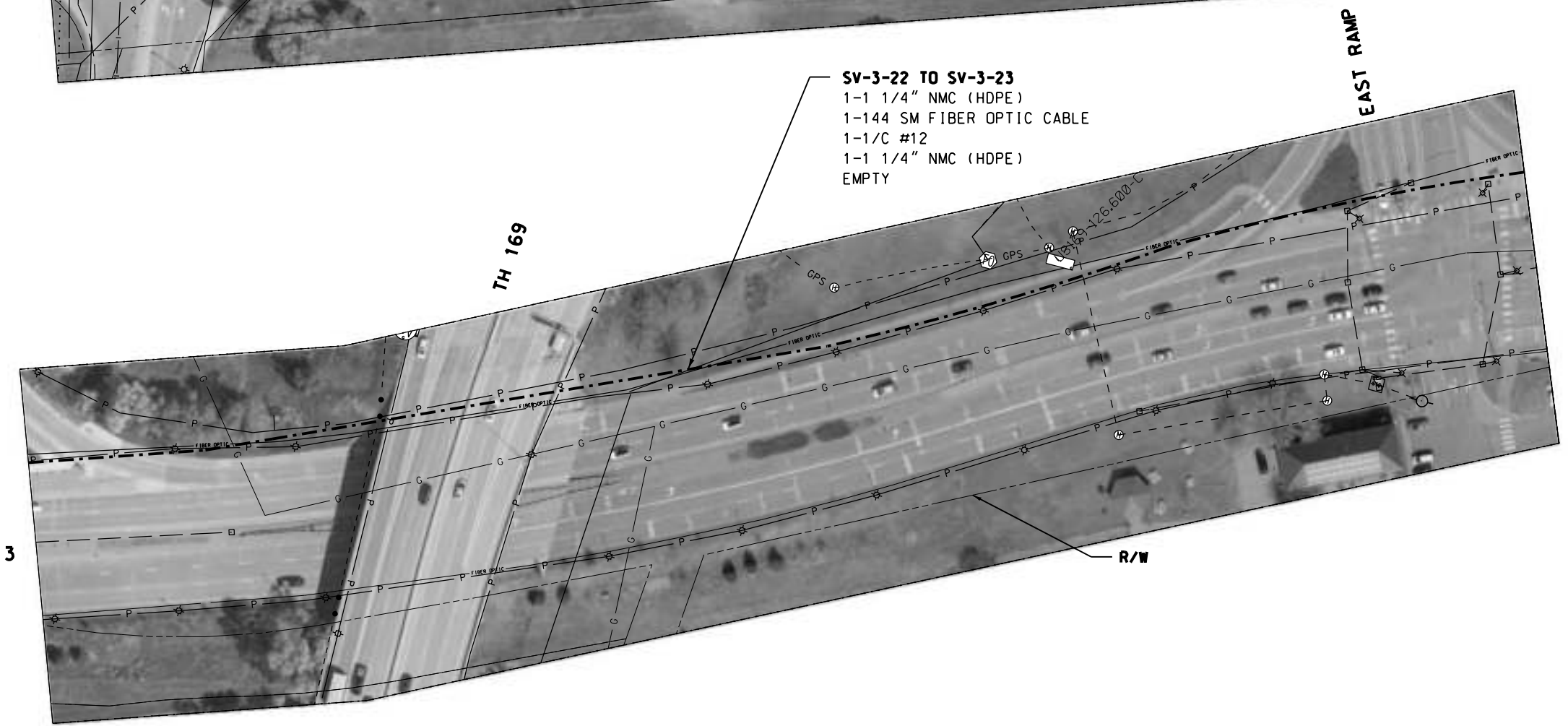
SV-3-22
 X: 494719.238
 Y: 148030.143

C.S.A.H. NO. 3



SV-3-22 TO SV-3-23
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

C.S.A.H. NO. 3



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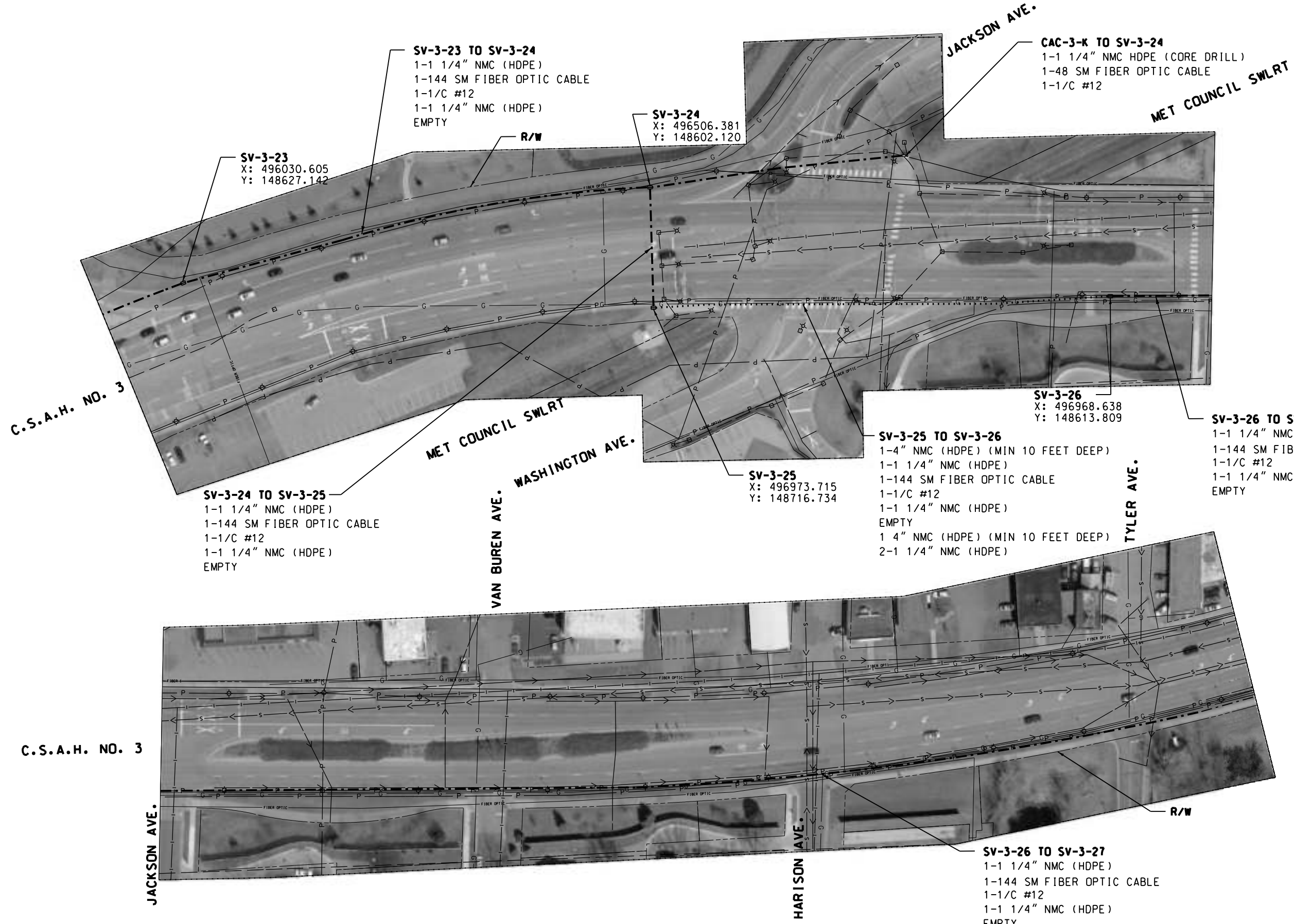
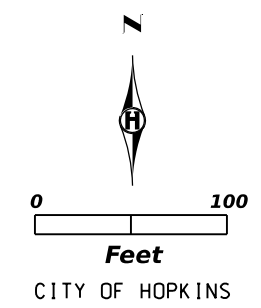
CSAH 3 PLAN

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SHEET

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SV-3-23
X: 496030.605
Y: 148627.142

SV-3-23 TO SV-3-24
1-1 1/4" NMC (HDPE)
1-144 SM FIBER OPTIC CABLE
1-1/C #12
1-1 1/4" NMC (HDPE)
EMPTY

SV-3-24
X: 496506.381
Y: 148602.120

CAC-3-K TO SV-3-24
1-1 1/4" NMC HDPE (CORE DRILL)
1-48 SM FIBER OPTIC CABLE
1-1/C #12

SV-3-24 TO SV-3-25
1-1 1/4" NMC (HDPE)
1-144 SM FIBER OPTIC CABLE
1-1/C #12
1-1 1/4" NMC (HDPE)
EMPTY

SV-3-25
X: 496973.715
Y: 148716.734

SV-3-25 TO SV-3-26
1-4" NMC (HDPE) (MIN 10 FEET DEEP)
1-1 1/4" NMC (HDPE)
1-144 SM FIBER OPTIC CABLE
1-1/C #12
1-1 1/4" NMC (HDPE)
EMPTY
1 4" NMC (HDPE) (MIN 10 FEET DEEP)
2-1 1/4" NMC (HDPE)

SV-3-26
X: 496968.638
Y: 148613.809

SV-3-26 TO SV-3-27
1-1 1/4" NMC (HDPE)
1-144 SM FIBER OPTIC CABLE
1-1/C #12
1-1 1/4" NMC (HDPE)
EMPTY

SV-3-26 TO SV-3-27
1-1 1/4" NMC (HDPE)
1-144 SM FIBER OPTIC CABLE
1-1/C #12
1-1 1/4" NMC (HDPE)
EMPTY

SEE SHEET 3 FOR GENERAL NOTES.



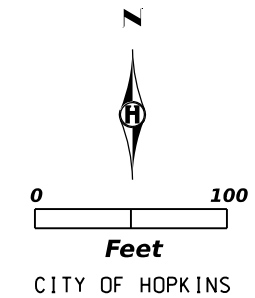
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CSAH 3 PLAN
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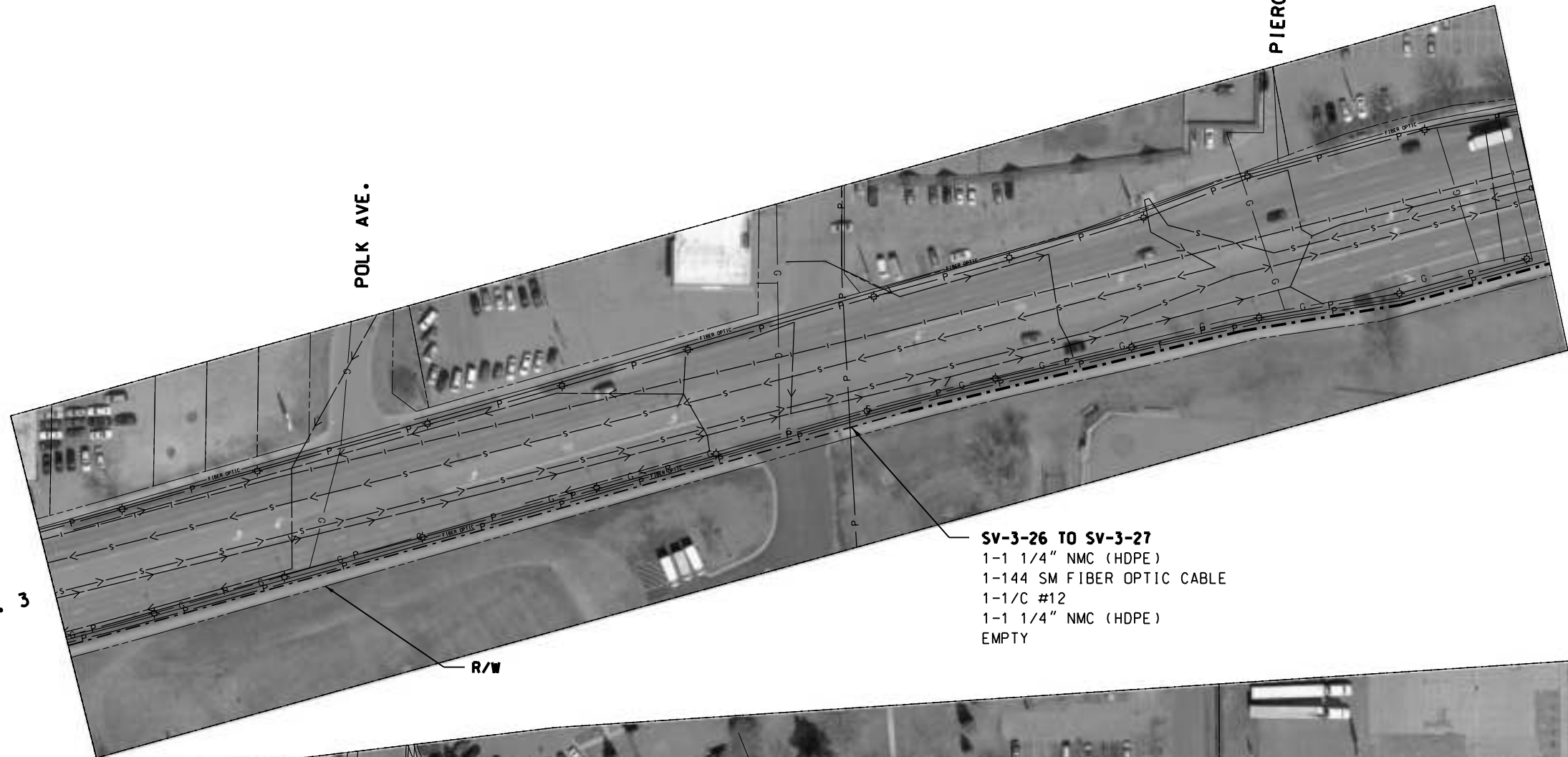
SHEET
 62 / 104



C.S.A.H. NO. 3

POLK AVE.

PIERCE AVE



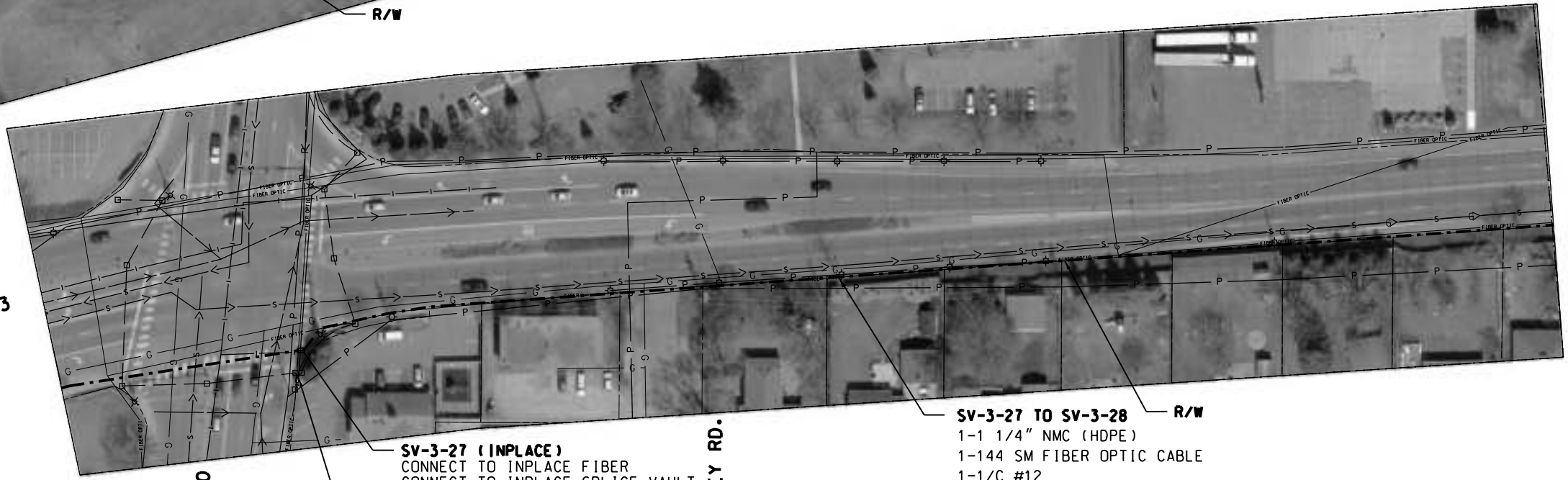
R/W

SV-3-26 TO SV-3-27
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

C.S.A.H. NO. 3

CSAH 20

ASHLEY RD.



R/W

SV-3-27 (INPLACE)
 CONNECT TO INPLACE FIBER
 CONNECT TO INPLACE SPLICE VAULT
CAC-3-L TO SV-3-27 (INPLACE)
 NO FIBER TERMINATION BOX
 REQUIRED AT CSAH 3 / CSAH 20

SV-3-27 TO SV-3-28
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

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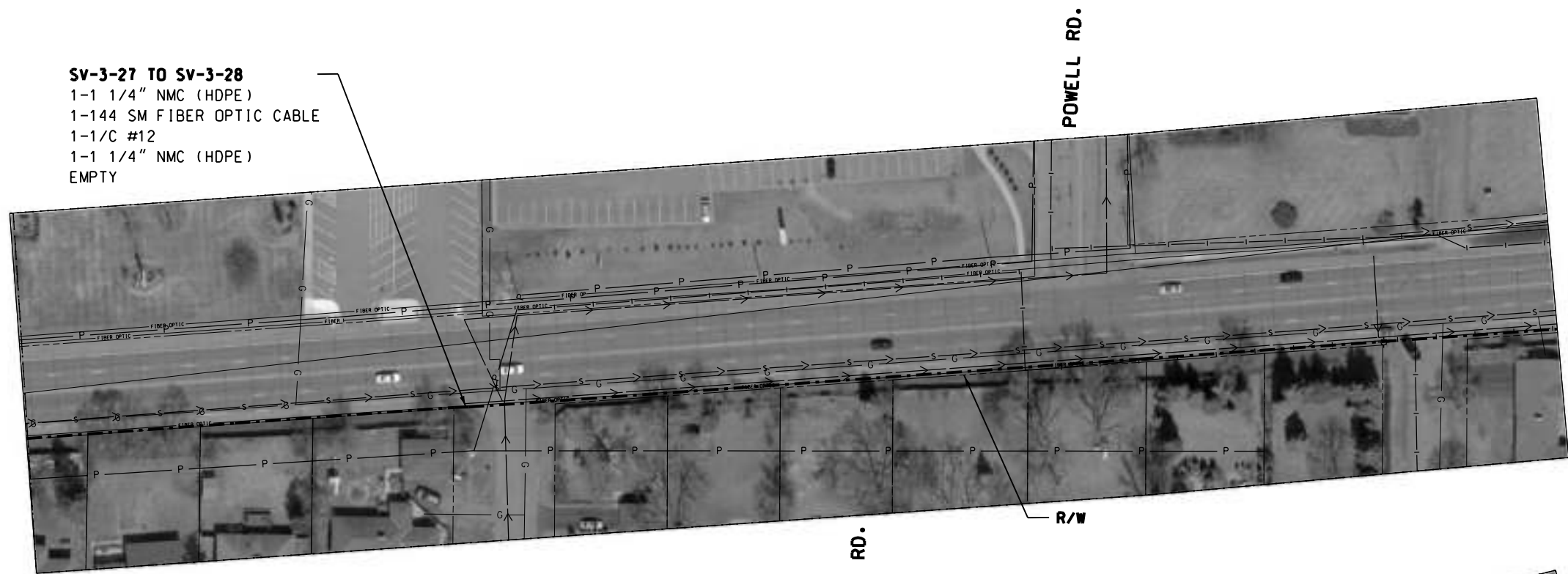
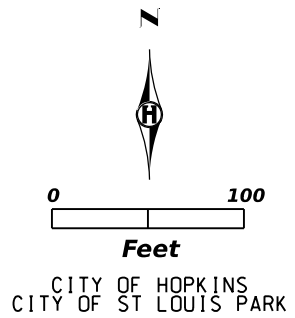
CSAH 3 PLAN

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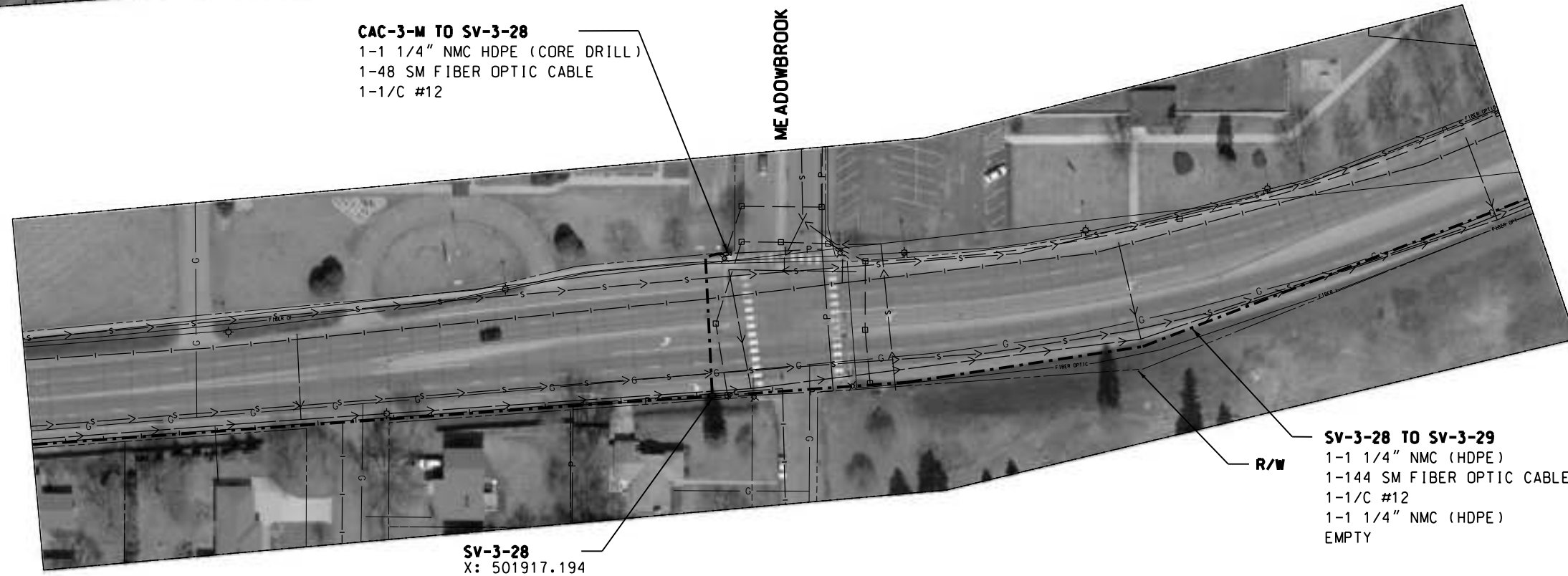
SHEET

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SV-3-27 TO SV-3-28
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

C.S.A.H. NO. 3



CAC-3-M TO SV-3-28
 1-1 1/4" NMC HDPE (CORE DRILL)
 1-48 SM FIBER OPTIC CABLE
 1-1/C #12

C.S.A.H. NO. 3

SV-3-28 TO SV-3-29
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-3-28
 X: 501917.194
 Y: 149219.215

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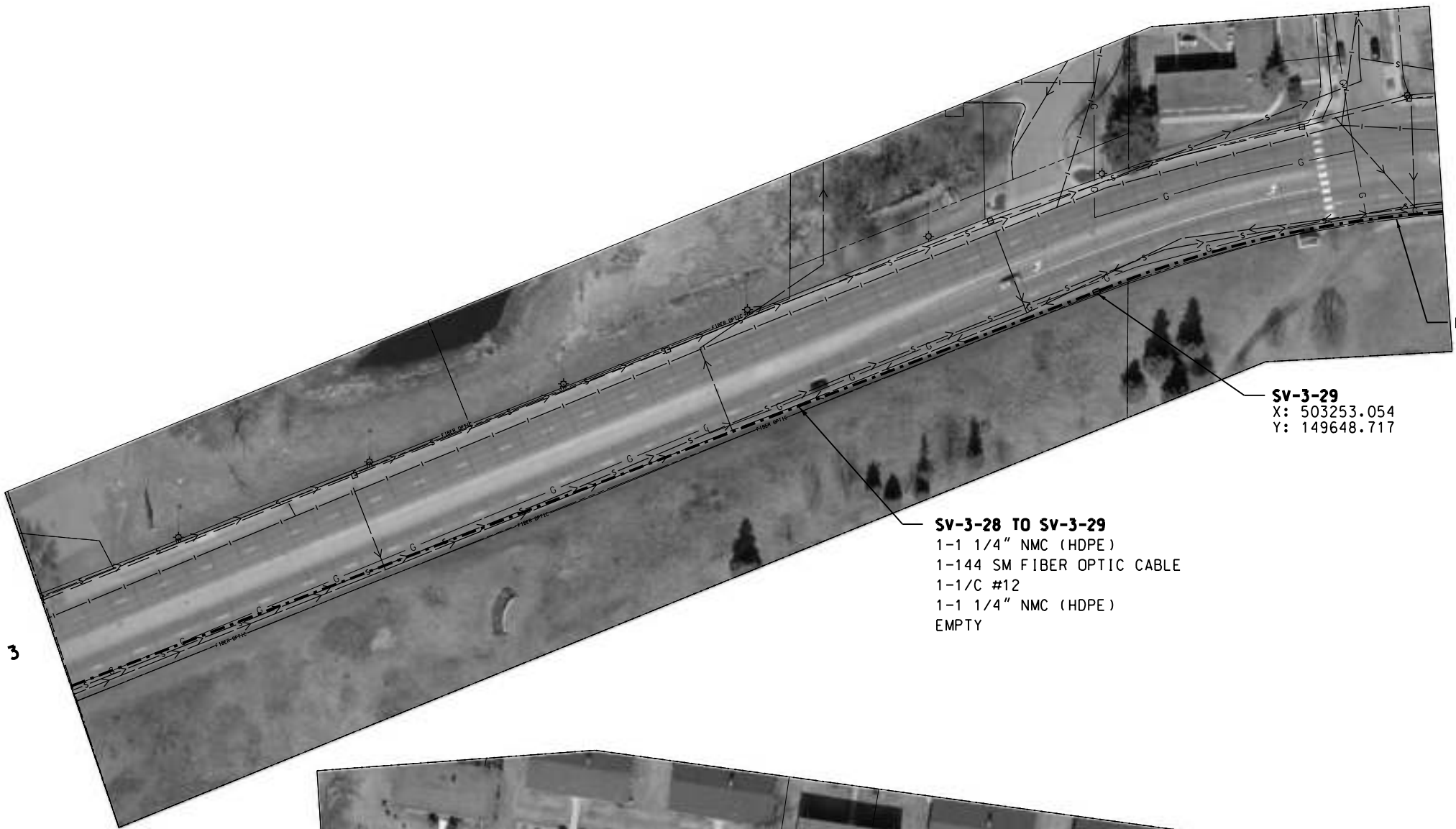
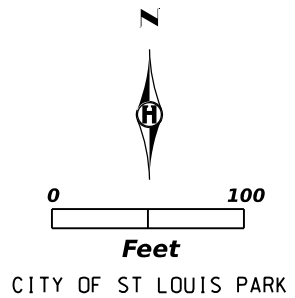
CSAH 3 PLAN

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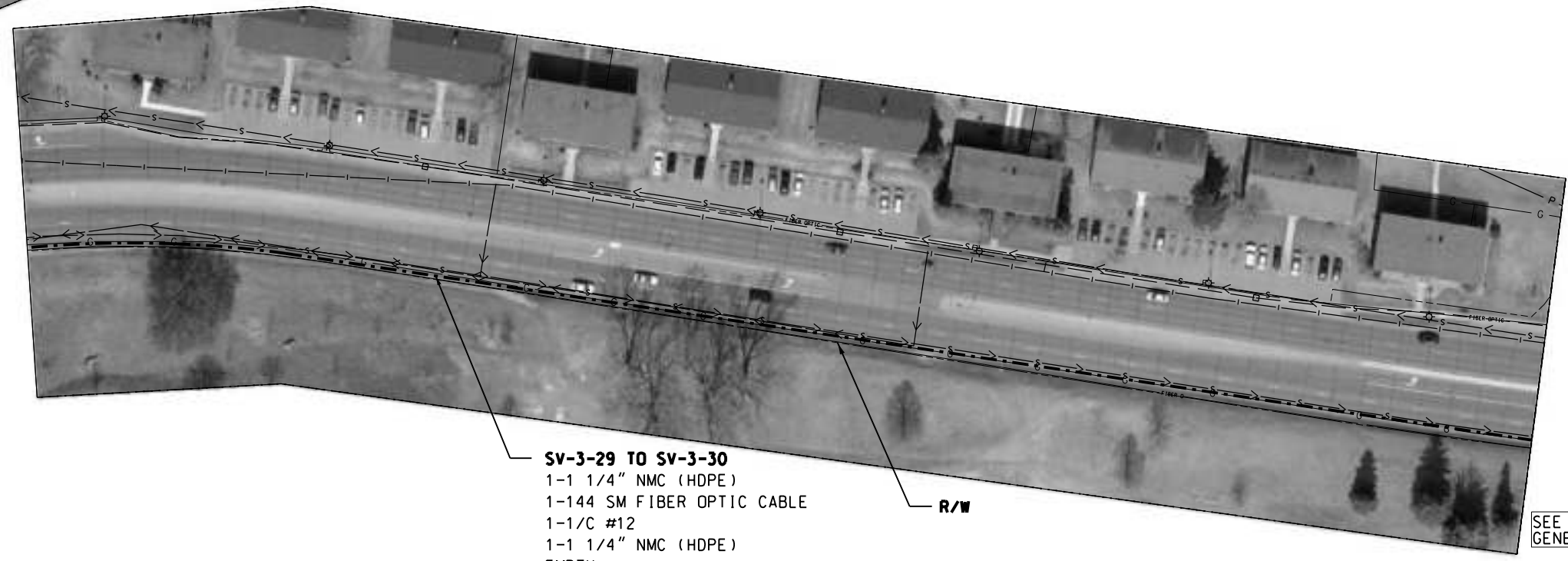
S.P. 027-030-047

SHEET

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SV-3-28 TO SV-3-29
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY



SV-3-29 TO SV-3-30
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SEE SHEET 3 FOR GENERAL NOTES.



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Ryan T. Allers
 RYAN T. ALLERS, LICENSED PROFESSIONAL ENGINEER

45896 06 / 01 / 2020
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 CAD BY: J WANNER
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S.P. 027-030-047

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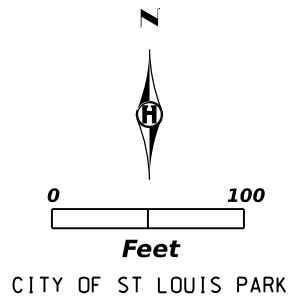
CAC-3-N TO SV-3-30
 1-1 1/4" NMC HDPE (CORE DRILL)
 1-48 SM FIBER OPTIC CABLE
 1-1/C #12

C.S.A.H. NO. 3

SV-3-30
 X: 504644.037
 Y: 149558.434

SV-3-30 TO SV-3-31
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

R/W



CAC-3-O TO SV-3-31
 1-1 1/4" NMC HDPE (CORE DRILL)
 1-48 SM FIBER OPTIC CABLE
 1-1/C #12

C.S.A.H. NO. 3

SV-3-31
 X: 505753.518
 Y: 149482.179

SV-3-31 TO SV-3-32
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

R/W

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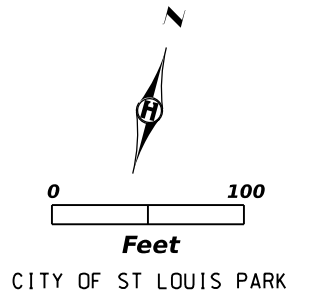
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C.S.A.H. NO. 3

SV-3-32 TO SV-3-33
 1-1 1/4" NMC (HDPE)
 1-48 SM FIBER OPTIC CABLE
 1-1/C #12

CAC-3-P TO SV-3-33
 1-1 1/4" NMC HDPE (CORE DRILL)
 1-48 SM FIBER OPTIC CABLE
 1-1/C #12

SV-3-33
 X: 507081.700
 Y: 150077.836

SV-3-34 TO SV-3-35
 1-4" RSC (MIN 10 FEET DEEP)
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY
 1-4" RSC (MIN 10 FEET DEEP)
 2-1-1 1/4" NMC (HDPE)

SV-3-34
 X: 507372.793
 Y: 150125.706

SV-3-35
 X: 507454.185
 Y: 150164.479

SV-3-32 TO SV-3-34
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-3-32
 X: 507119.727
 Y: 150006.794

SV-3-31 TO SV-3-32
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

C.S.A.H. NO. 3

SV-3-36
 X: 508399.266
 Y: 150558.419

SV-3-35 TO SV-3-36
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-3-36 TO SV-3-37
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SEE SHEET 3 FOR GENERAL NOTES.



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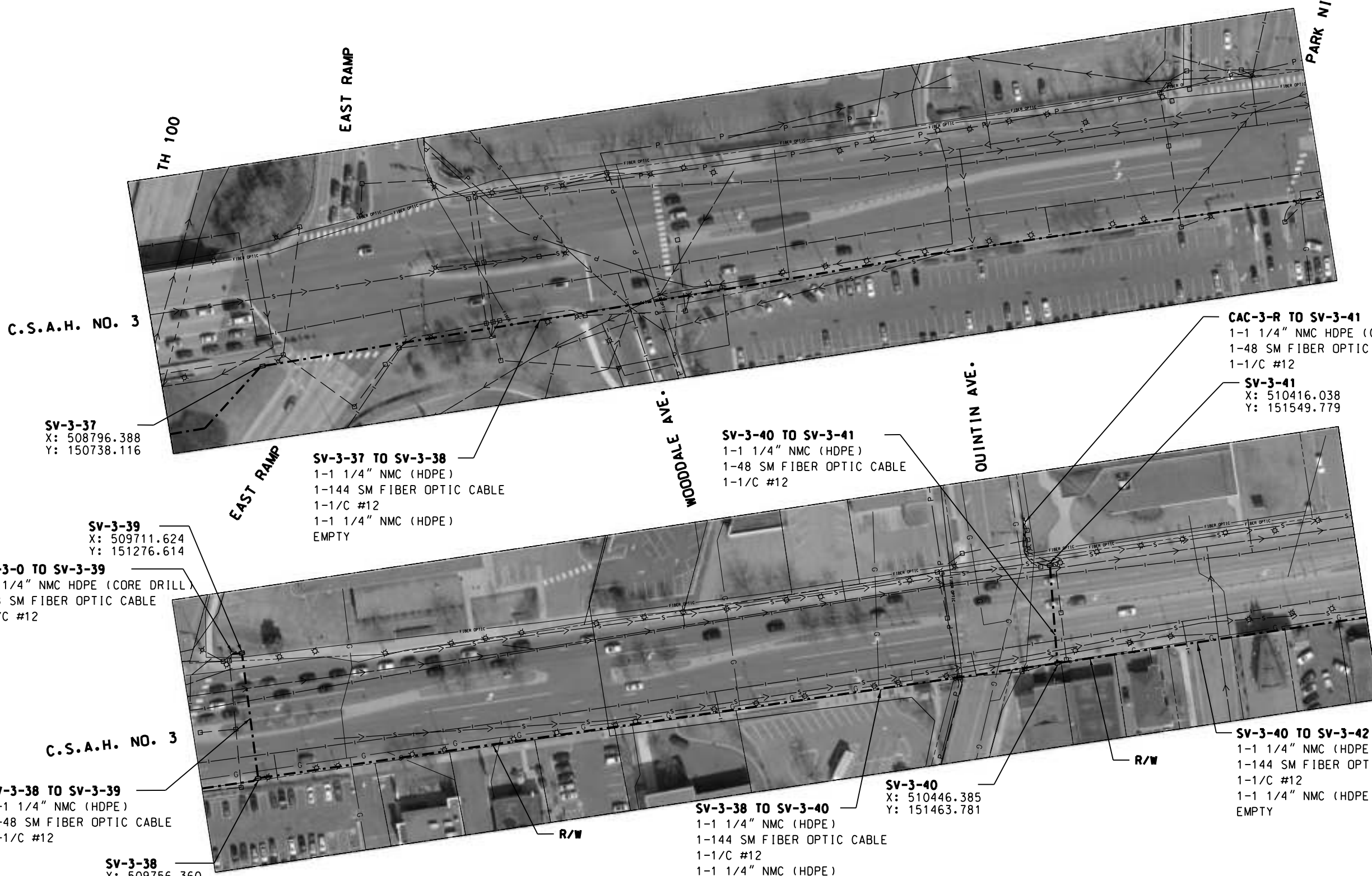
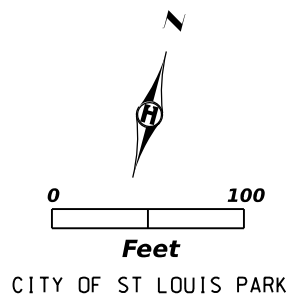
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SV-3-37
X: 508796.388
Y: 150738.116

SV-3-37 TO SV-3-38
1-1 1/4" NMC (HDPE)
1-144 SM FIBER OPTIC CABLE
1-1/C #12
1-1 1/4" NMC (HDPE)
EMPTY

SV-3-39
X: 509711.624
Y: 151276.614

CAC-3-0 TO SV-3-39
1-1 1/4" NMC HDPE (CORE DRILL)
1-48 SM FIBER OPTIC CABLE
1-1/C #12

SV-3-40 TO SV-3-41
1-1 1/4" NMC (HDPE)
1-48 SM FIBER OPTIC CABLE
1-1/C #12

CAC-3-R TO SV-3-41
1-1 1/4" NMC HDPE (CORE DRILL)
1-48 SM FIBER OPTIC CABLE
1-1/C #12

SV-3-41
X: 510416.038
Y: 151549.779

C.S.A.H. NO. 3

SV-3-38 TO SV-3-39
1-1 1/4" NMC (HDPE)
1-48 SM FIBER OPTIC CABLE
1-1/C #12

SV-3-38
X: 509756.360
Y: 151168.017

SV-3-38 TO SV-3-40
1-1 1/4" NMC (HDPE)
1-144 SM FIBER OPTIC CABLE
1-1/C #12
1-1 1/4" NMC (HDPE)
EMPTY

SV-3-40
X: 510446.385
Y: 151463.781

SV-3-40 TO SV-3-42
1-1 1/4" NMC (HDPE)
1-144 SM FIBER OPTIC CABLE
1-1/C #12
1-1 1/4" NMC (HDPE)
EMPTY

SEE SHEET 3 FOR GENERAL NOTES.



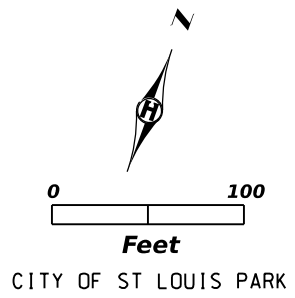
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 LICENSE NO. 45896 DATE 06/01/2020

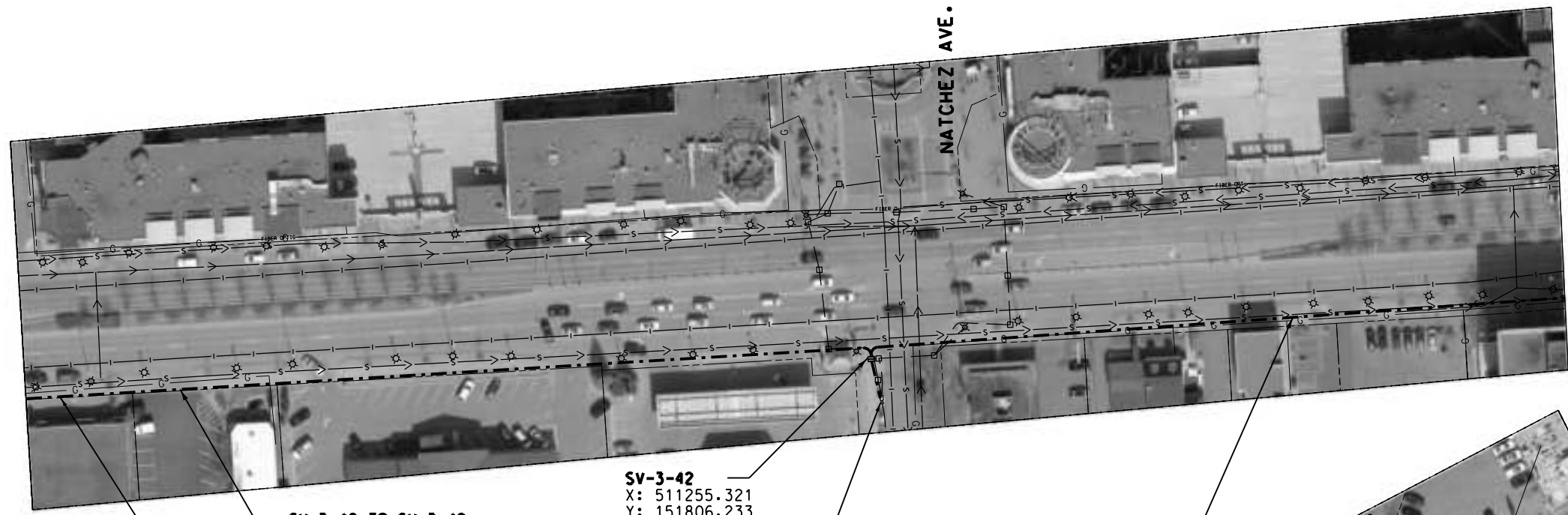
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 104



C.S.A.H. NO. 3



R/W

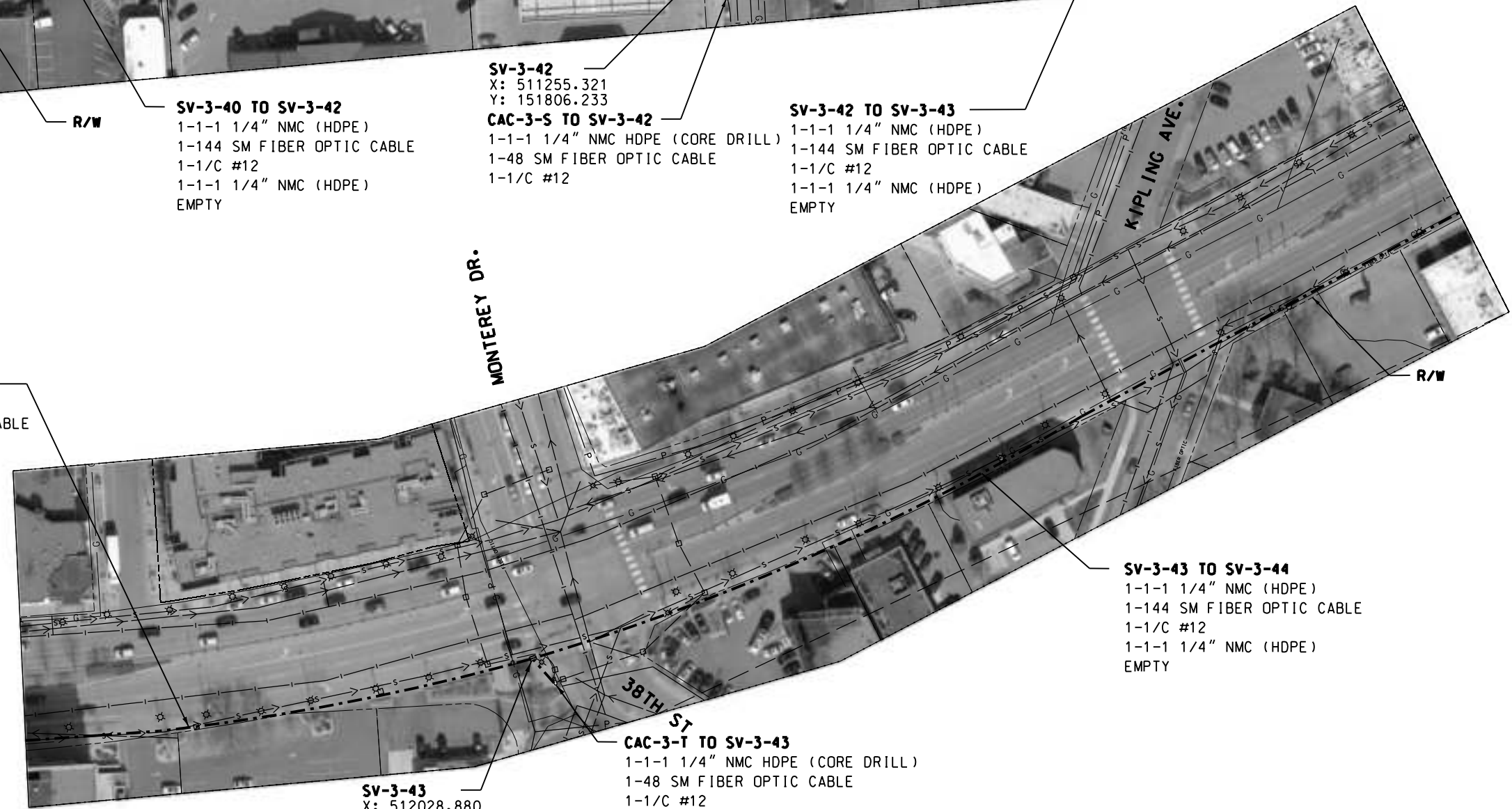
SV-3-40 TO SV-3-42
 1-1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1-1 1/4" NMC (HDPE)
 EMPTY

SV-3-42
 X: 511255.321
 Y: 151806.233
CAC-3-S TO SV-3-42
 1-1-1 1/4" NMC HDPE (CORE DRILL)
 1-48 SM FIBER OPTIC CABLE
 1-1/C #12

SV-3-42 TO SV-3-43
 1-1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1-1 1/4" NMC (HDPE)
 EMPTY

SV-3-42 TO SV-3-43
 1-1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1-1 1/4" NMC (HDPE)
 EMPTY

MONTEREY DR.



R/W

SV-3-43 TO SV-3-44
 1-1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1-1 1/4" NMC (HDPE)
 EMPTY

C.S.A.H. NO. 3

SV-3-43
 X: 512028.880
 Y: 152198.585

CAC-3-T TO SV-3-43
 1-1-1 1/4" NMC HDPE (CORE DRILL)
 1-48 SM FIBER OPTIC CABLE
 1-1/C #12

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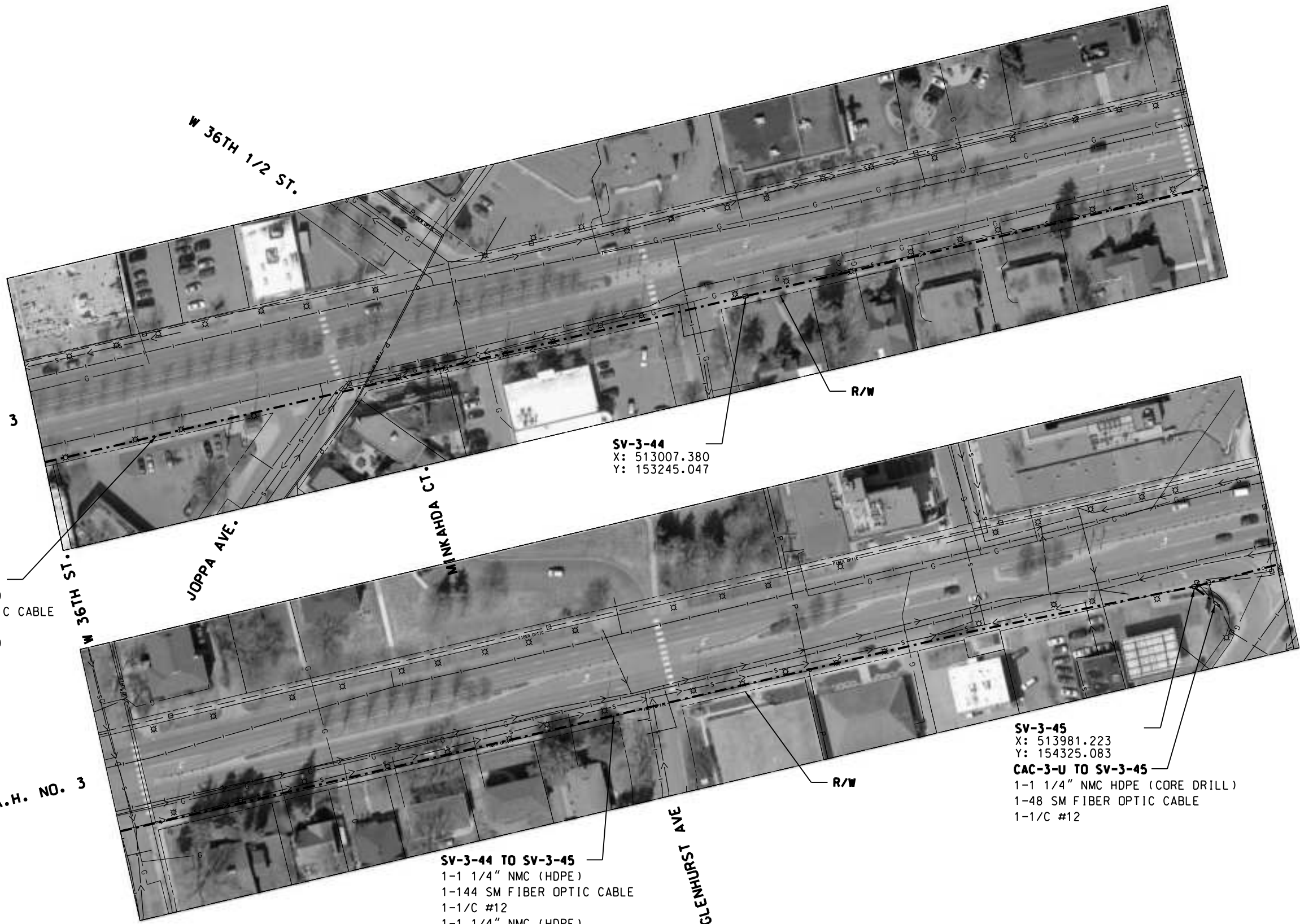
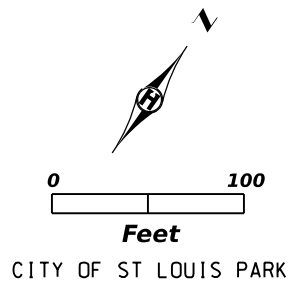
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SV-3-43 TO SV-3-44
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-3-44
 X: 513007.380
 Y: 153245.047

SV-3-45
 X: 513981.223
 Y: 154325.083
CAC-3-U TO SV-3-45
 1-1 1/4" NMC HDPE (CORE DRILL)
 1-48 SM FIBER OPTIC CABLE
 1-1/C #12

SV-3-44 TO SV-3-45
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

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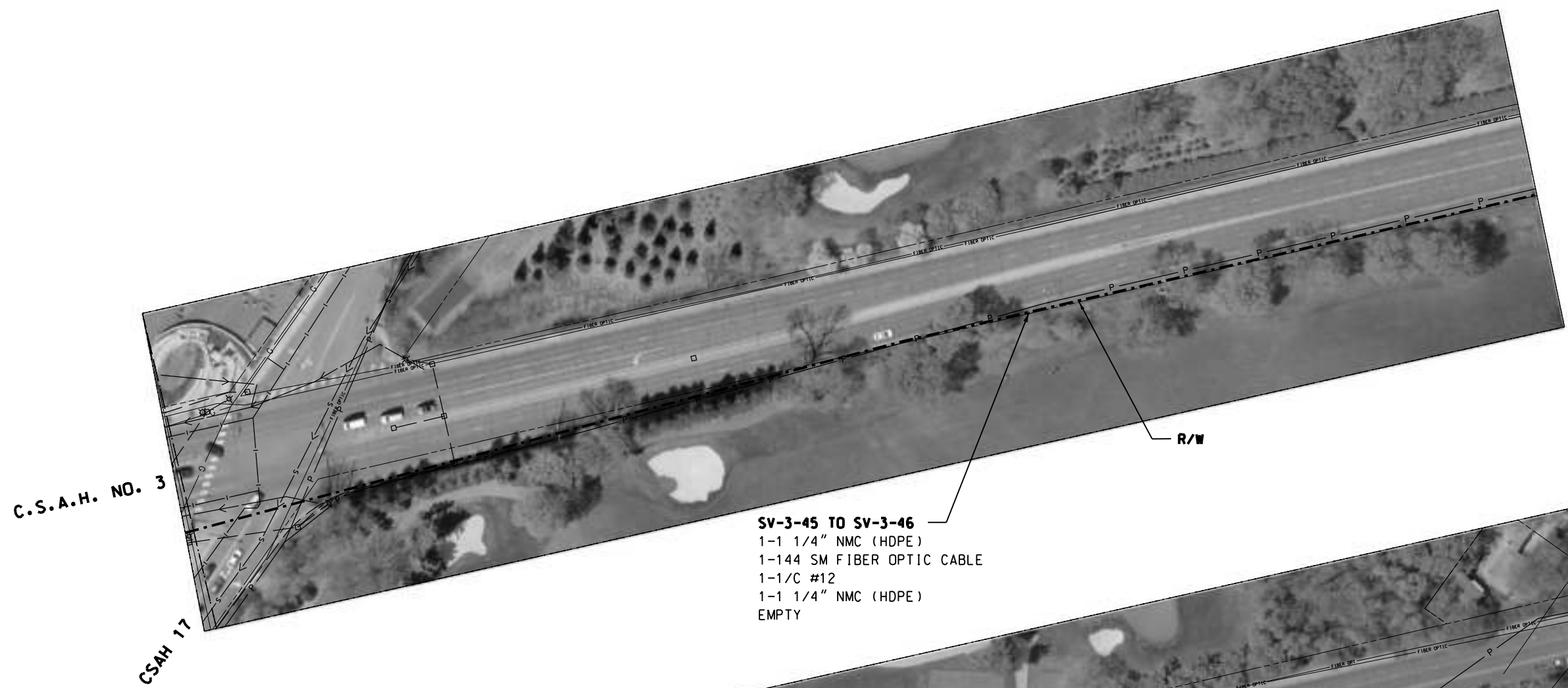
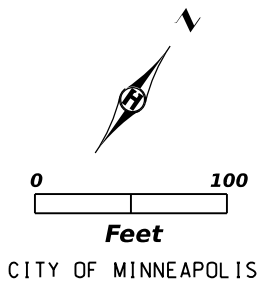
Ryan T. Allers
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SV-3-45 TO SV-3-46
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY



SV-3-46
 X: 515288.852
 Y: 155812.480

SV-3-46 TO SV-3-47
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

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 GENERAL NOTES.



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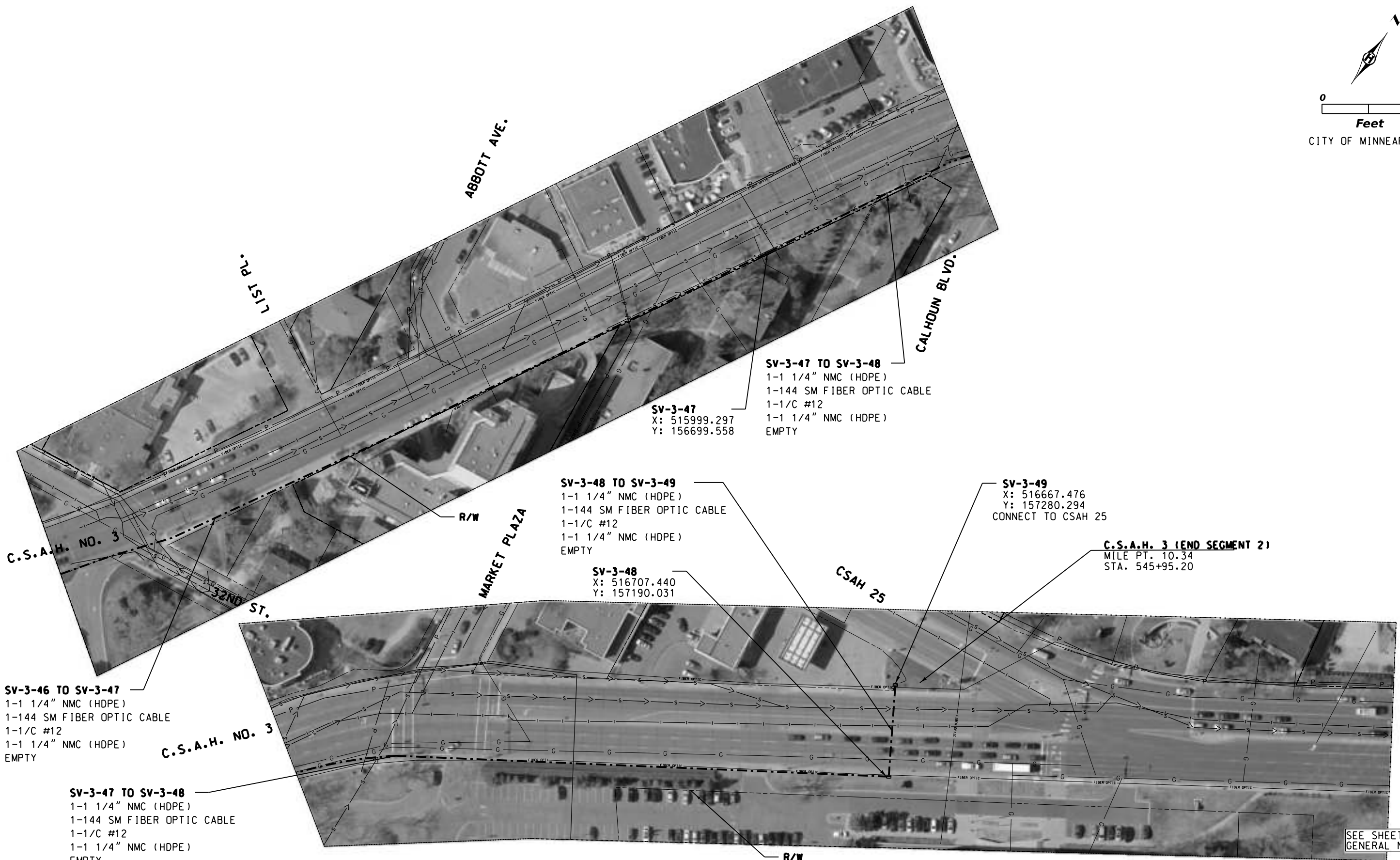
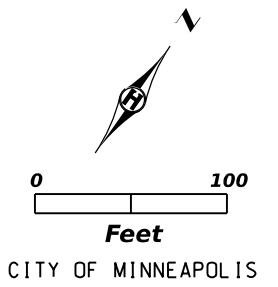
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SV-3-47 TO SV-3-48
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-3-47
 X: 515999.297
 Y: 156699.558

SV-3-48 TO SV-3-49
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-3-48
 X: 516707.440
 Y: 157190.031

SV-3-49
 X: 516667.476
 Y: 157280.294
 CONNECT TO CSAH 25

C.S.A.H. 3 (END SEGMENT 2)
 MILE PT. 10.34
 STA. 545+95.20

SV-3-46 TO SV-3-47
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-3-47 TO SV-3-48
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

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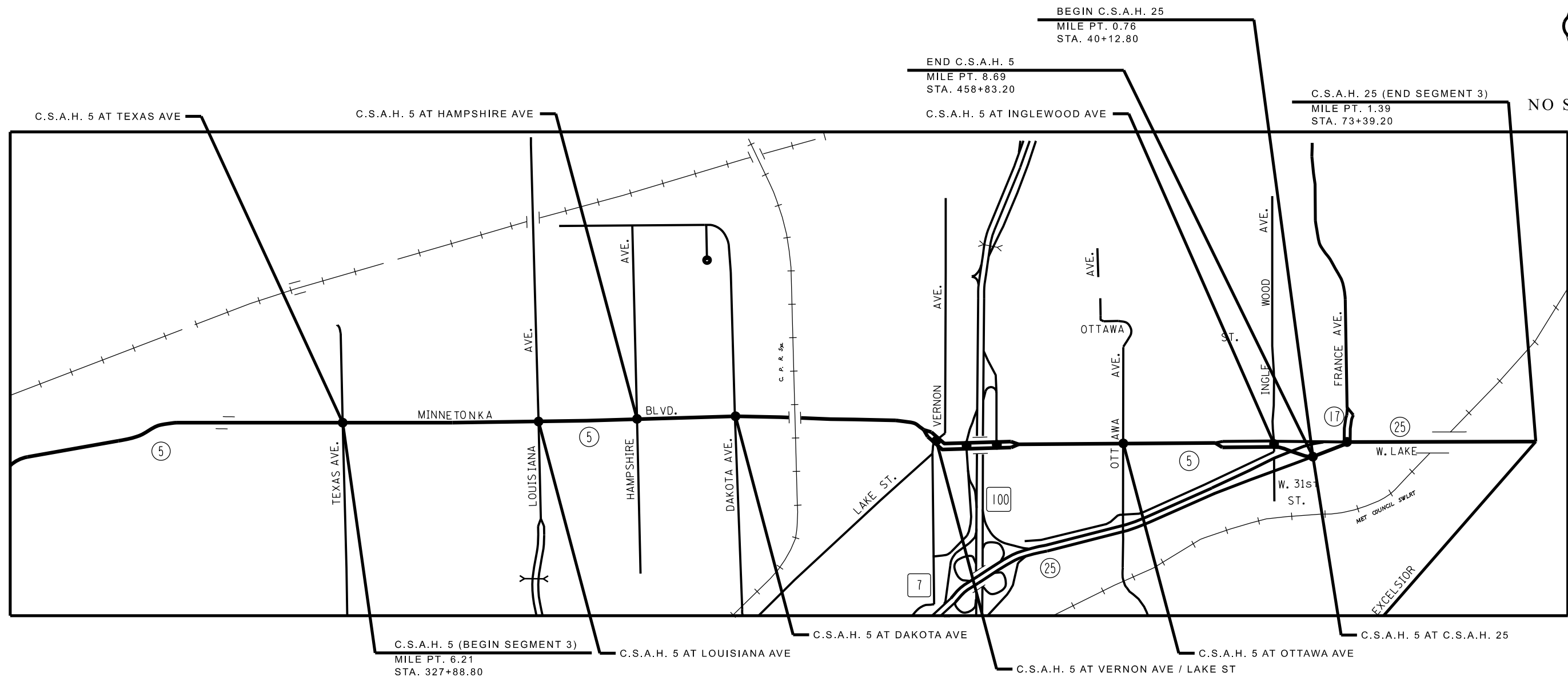
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72 / 104



NO SCALE



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CSAH 5 LOCATION MAP

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COMPANY	CONTACT	EMAIL	PHONE	UTILITIES
ARVIG	CURT OLSON	curtis.olson@arvig.com	218-346-5500	FIBER OPTICS
AT&T TRANSMISSION	DAVID ROBBERT	dr2945@att.com	612-804-1797	PHONE/CABLE/INT
CITY OF ST LOUIS PARK WATER	NICK BUSTROM	nbustrom@stlouispark.org	952-928-1323	STORM, SANITARY, AND WATER
CITY OF MINNETONKA	SCOTT ORNAT	sornat@eminnetonka.com	952-988-8400	STORM, SANITARY, AND WATER
CITY OF MINNEAPOLIS TRAFFIC	JESSE HERNANDEZ	jesse.hernandez@minneapolismn.gov	612-403-6240	
CITY OF MINNEAPOLIS SEWER	JOHN STUDTMANN	John.Studtmann@minneapolismn.gov	612-673-5600	
COMCAST	LYNNE	usicprintrequests@gmail.com	612-919-0760	PHONE/CABLE/INT
CENTURYLINK - CTLQL	SUSAN BLUE	Susan.Blue@CenturyLink.com	800-667-9963	PHONE/CABLE/INT
HENNEPIN COUNTY PUBLIC WORKS	BRANT KOUGH	brant.kough@hennepin.us	612-596-0339	TRAFFIC SIGNALS/FIBER
METROPOLITAN COUNCIL	MANKING LEE	Manking.Lee@metc.state.mn.us	651-602-4313	SEWER
CENTER POINT ENERGY	CATHY FRAUTSCHI	Cathy.Frautschi@centerpointenergy.com	763-559-5185	GAS
MNDOT	TYLER MONSON	tyler.monson@state.mn.us	651-366-5750	LIGHTING/SIGNALS/FIBER
NEUTRAL PATH COMMUNICATIONS	DARYL RENAUD	daryl.renaud@vannguardup.com	515-250-6998	FIBER OPTICS
ST LOUIS PARK SCHOOL DISTRICT			218-346-5500	FIBER OPTICS
US INTERNET CORP	DYLAN OSBORN	dosborn@usinternet.com	612-417-1266	FIBER OPTICS
XCEL ENERGY	SAM RICHERT	Samuel.L.Richert@xcelenergy.com	612-499-1303	POWER



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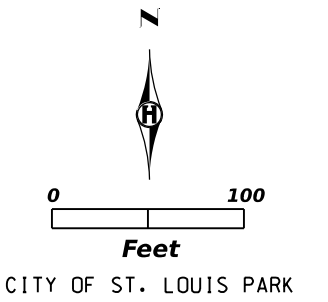
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CSAH 5 UTILITY CONTACT INFORMATION

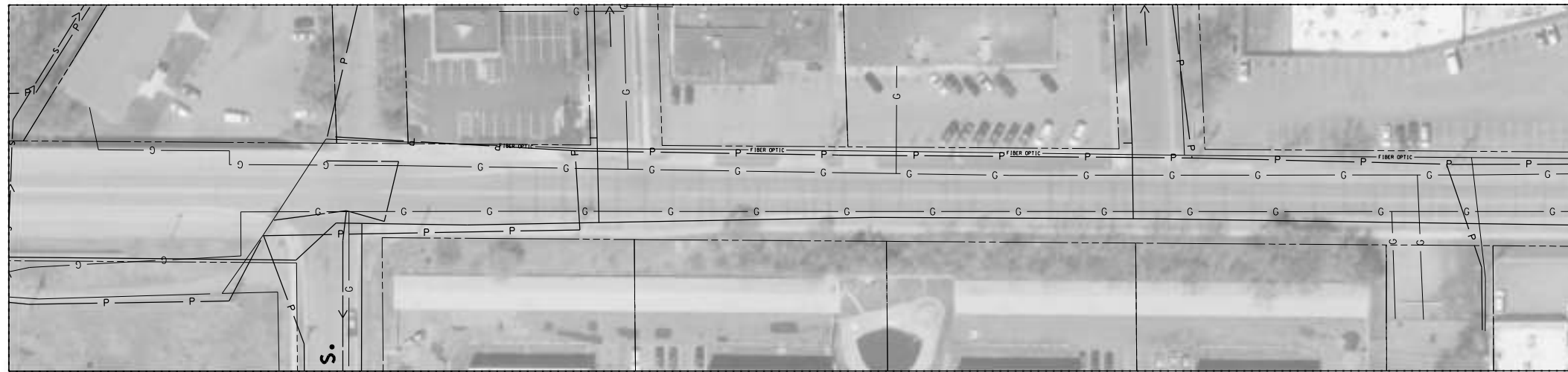
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 S.P. 027-030-047

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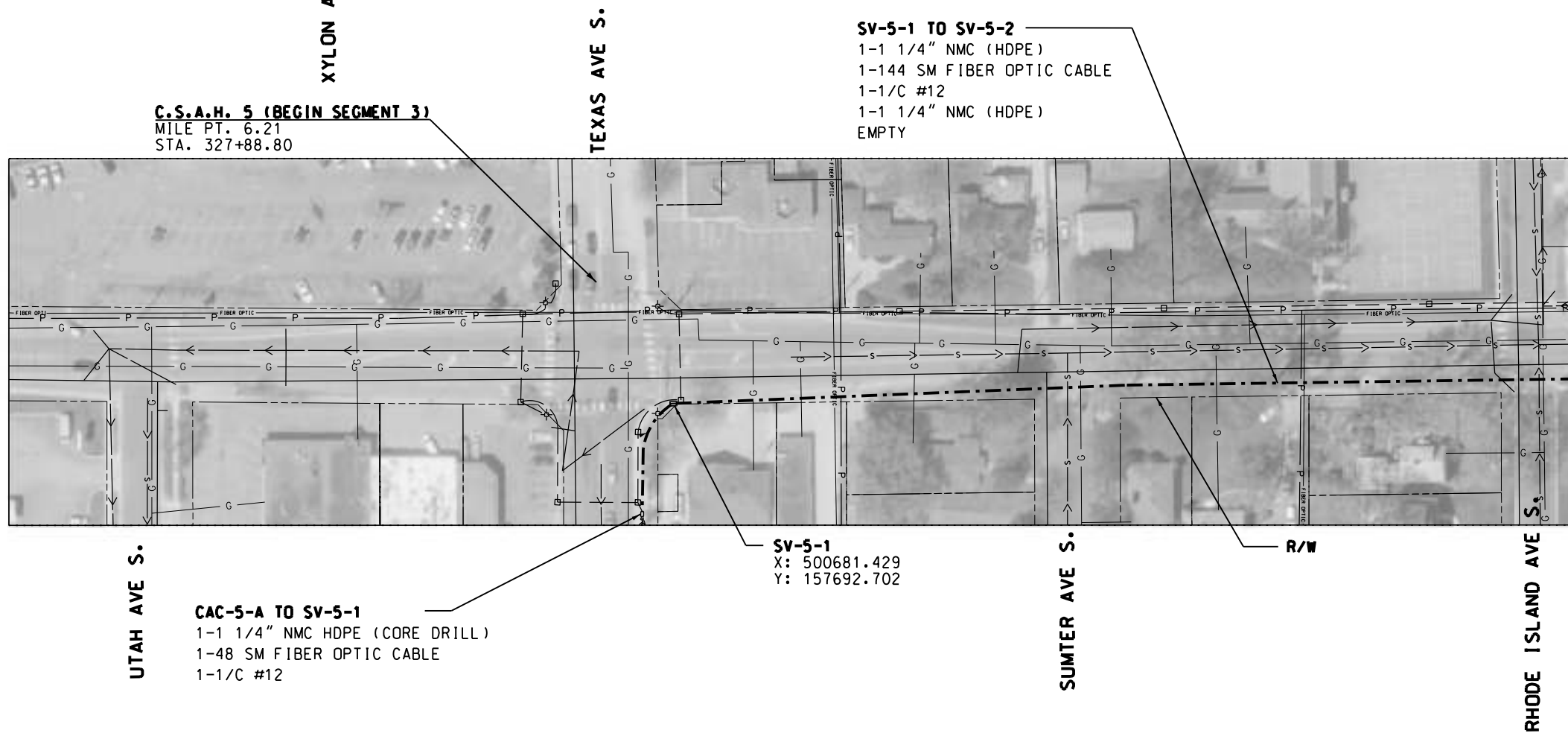
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C.S.A.H. NO. 5



C.S.A.H. NO. 5



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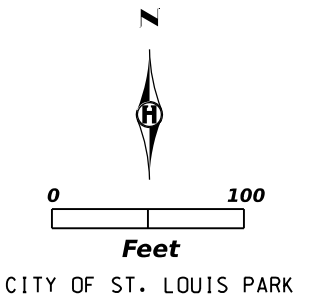
RYAN T. ALLERS, LICENSED PROFESSIONAL ENGINEER

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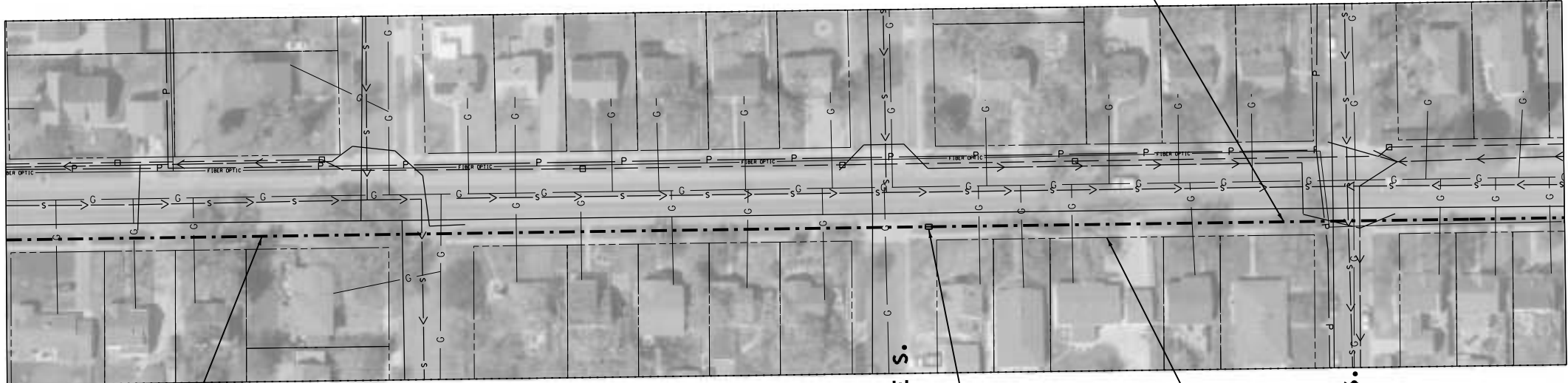
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SHEET
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SV-5-2 TO SV-5-3
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY



C.S.A.H. NO. 5

SV-5-1 TO SV-5-2
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

QUEBEC AVE S.

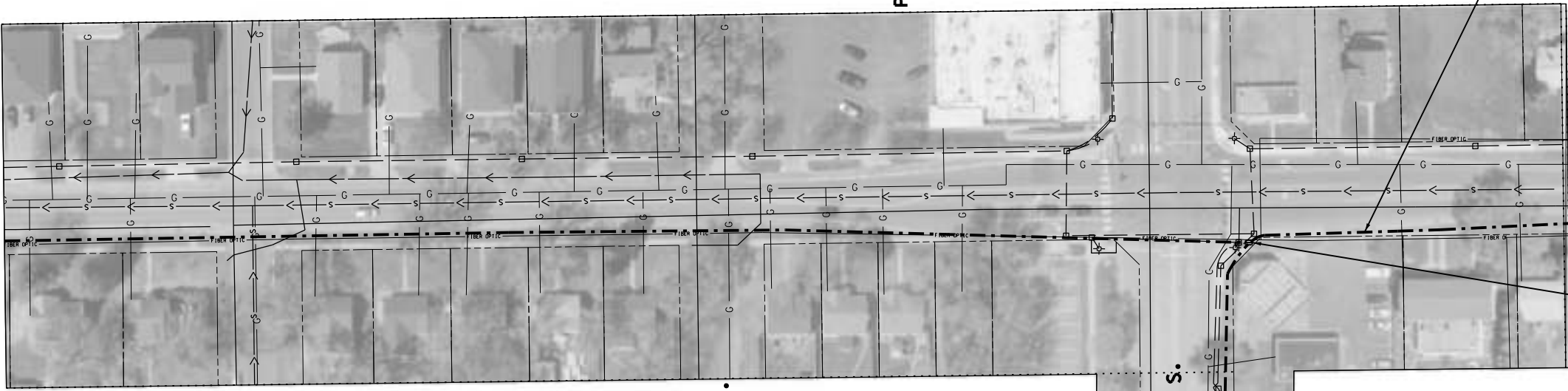
SV-5-2
 X: 501967.628
 Y: 157719.357

R/W

PENNSYLVANIA AVE S.

OREGON AVE S.

SV-5-3 TO SV-5-4
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY



C.S.A.H. NO. 5

SV-5-3
 X: 503293.399
 Y: 157724.679

NEVADA AVE S.

MARYLAND AVE S.

LOUISIANA AVE S.

CAC-5-B TO SV-5-3
 1-1 1/4" NMC HDPE (CORE DRILL)
 1-48 SM FIBER OPTIC CABLE
 1-1/C #12

SEE SHEET 3 FOR GENERAL NOTES.



I HEREBY CERTIFY THAT THIS PLAN 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.

Ryan T. Allers
 RYAN T. ALLERS, LICENSED PROFESSIONAL ENGINEER

45896 LICENSE NO. 06/01/2020 DATE

DESIGN BY: J WANNER
 CAD BY: J WANNER
 CHECKED BY: R ALLERS
 LAST REVISION: / /

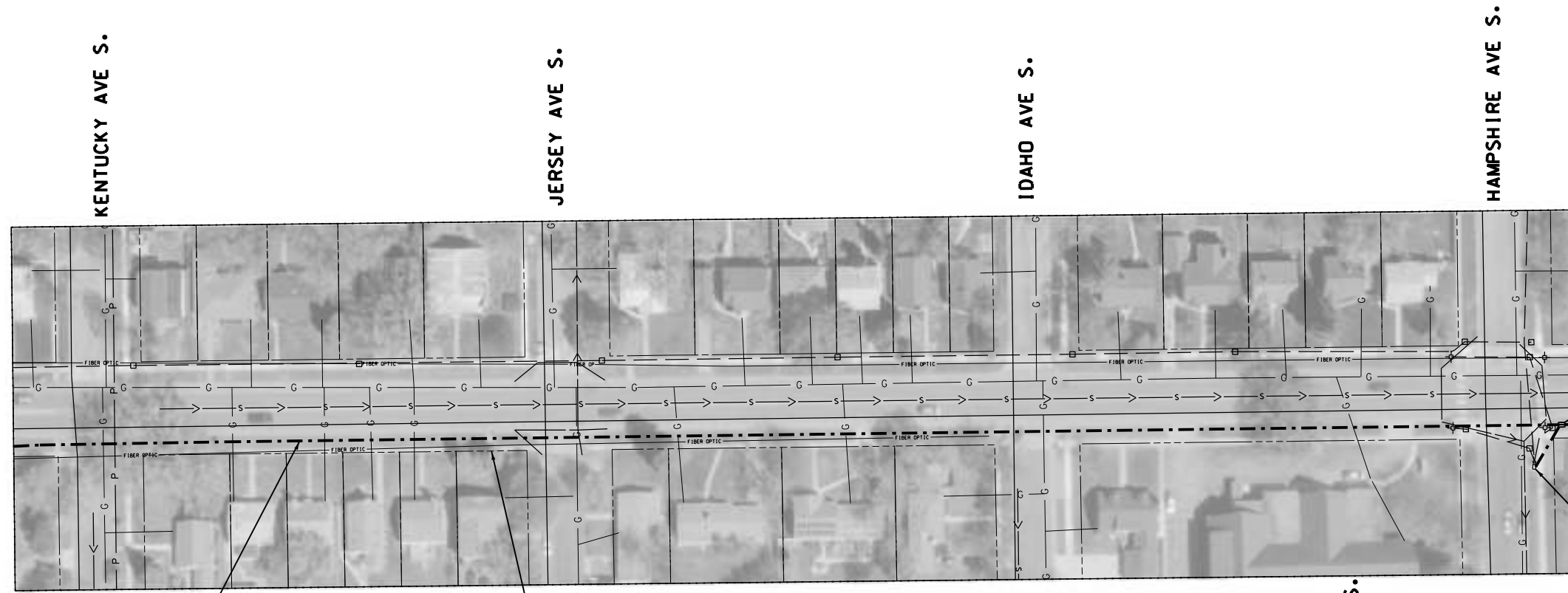
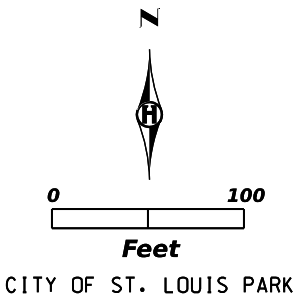
CSAH 5 PLAN

2020 ATMS / HENNEPIN COUNTY PROJECT 164402

S.P. 027-030-047

SHEET

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C.S.A.H. NO. 5

SV-5-4
X: 504610.056
Y: 157753.522

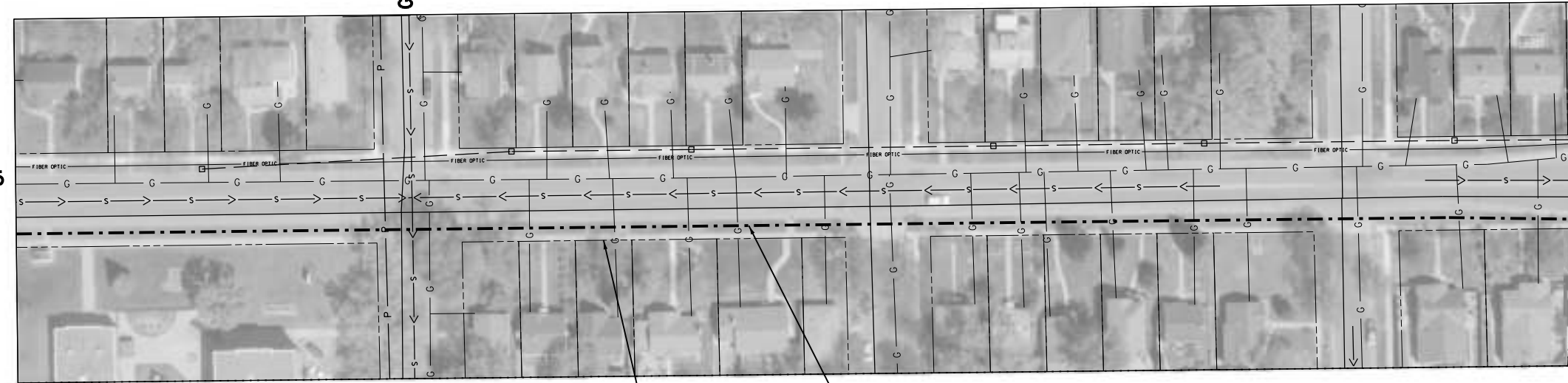
SV-5-3 TO SV-5-4
1-1 1/4" NMC (HDPE)
1-144 SM FIBER OPTIC CABLE
1-1/C #12
1-1 1/4" NMC (HDPE)
EMPTY

CAC-5-C TO SV-5-4
1-1 1/4" NMC HDPE (CORE DRILL)
1-48 SM FIBER OPTIC CABLE
1-1/C #12

GEORGIA AVE S.
R/W

FLORIDA AVE S.

EDGEWOOD AVE S.



C.S.A.H. NO. 5

SV-5-4 TO SV-5-5
1-1 1/4" NMC (HDPE)
1-144 SM FIBER OPTIC CABLE
1-1/C #12
1-1 1/4" NMC (HDPE)
EMPTY

R/W

SEE SHEET 3 FOR GENERAL NOTES.



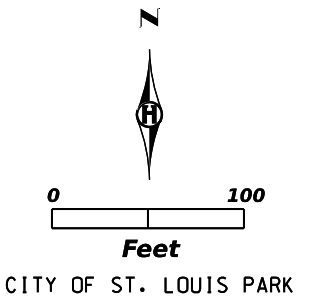
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CSAH 5 PLAN
 2020 ATMS / HENNEPIN COUNTY PROJECT 164402
 S.P. 027-030-047

SHEET
 77 / 104



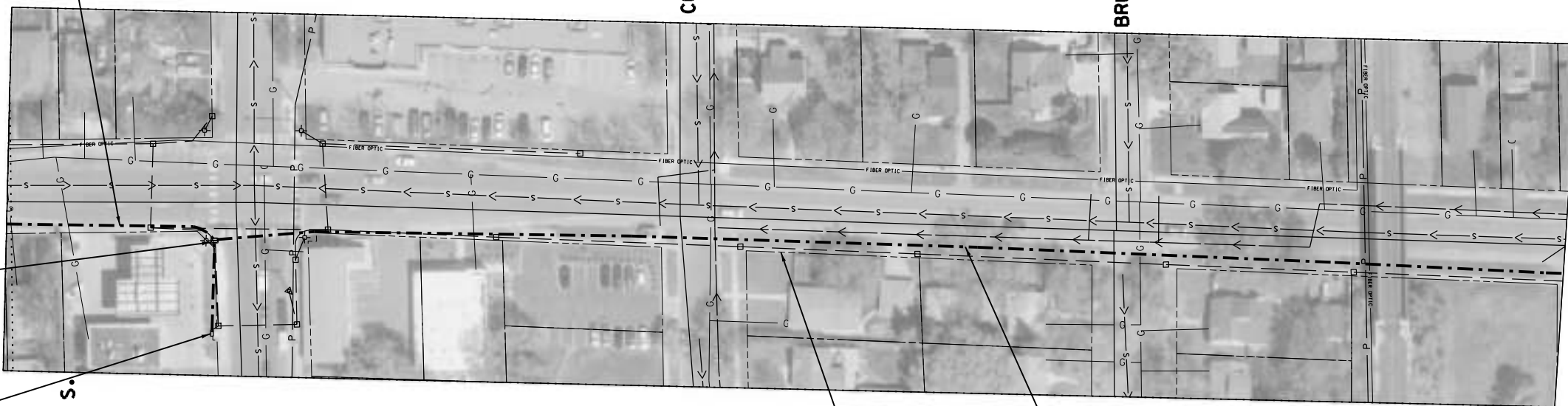
SV-5-4 TO SV-5-5
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

DAKOTA AVE S.

COLORADO AVE S.

BRUNSWICK AVE S.

CP RAILROAD



C.S.A.H. NO. 5

SV-5-5
 X: 505861.275
 Y: 157752.480

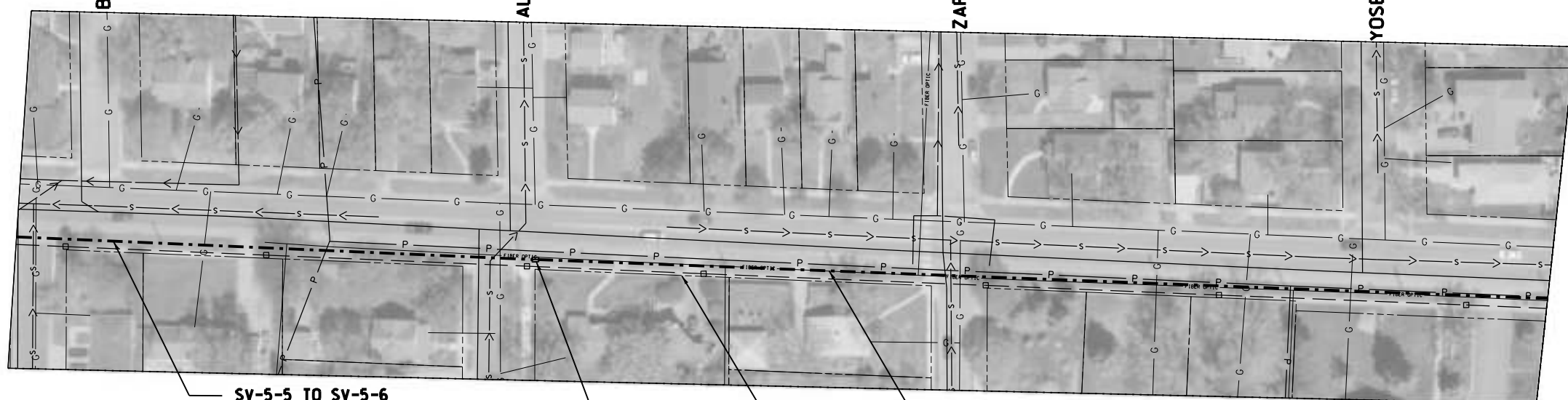
CAC-5-D TO SV-5-5
 1-1 1/4" NMC HDPE (CORE DRILL)
 1-48 SM FIBER OPTIC CABLE
 1-1/C #12

BLACKSTONE AVE S.

ALABAMA AVE S.

ZARTHAN AVE S.

YOSEMITE AVE S.



C.S.A.H. NO. 5

SV-5-5 TO SV-5-6
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-5-6
 X: 507183.793
 Y: 157713.016

SV-5-6 TO SV-5-7
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

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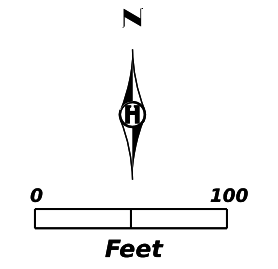
CSAH 5 PLAN

2020 ATMS / HENNEPIN COUNTY PROJECT 164402

S.P. 027-030-047

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CITY OF ST. LOUIS PARK

SV-5-7 TO SV-5-8
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-5-8
 X: 508273.362
 Y: 157684.533

SV-5-8 TO SV-5-9
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

CAC-5-E TO SV-5-9
 1-1 1/4" NMC HDPE (CORE DRILL)
 1-48 SM FIBER OPTIC CABLE
 1-1/C #12

SV-5-9 TO SV-5-10
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-5-9
 X: 508719.928
 Y: 157475.941

SV-5-6 TO SV-5-7
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-5-7
 X: 508254.745
 Y: 157635.019

SV-5-9 TO SV-5-10
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-5-10
 X: 509394.050
 Y: 157479.946

SV-5-10 TO SV-5-11
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

C.S.A.H. NO. 5

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 2020 ATMS / HENNEPIN COUNTY PROJECT 164402
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RALEIGH AVE S.

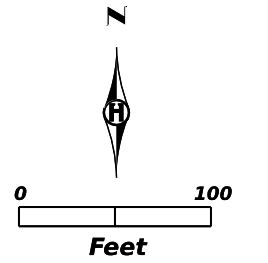
SV-5-10 TO SV-5-11
1-1 1/4" NMC (HDPE)
1-144 SM FIBER OPTIC CABLE
1-1/C #12
1-1 1/4" NMC (HDPE)
EMPTY

QUENTIN AVE

R/W

PRINCETON AVE

OTTAWA AVE S.



CITY OF ST. LOUIS PARK

C.S.A.H. NO. 5



SV-5-11
X: 511176.791
Y: 157413.033

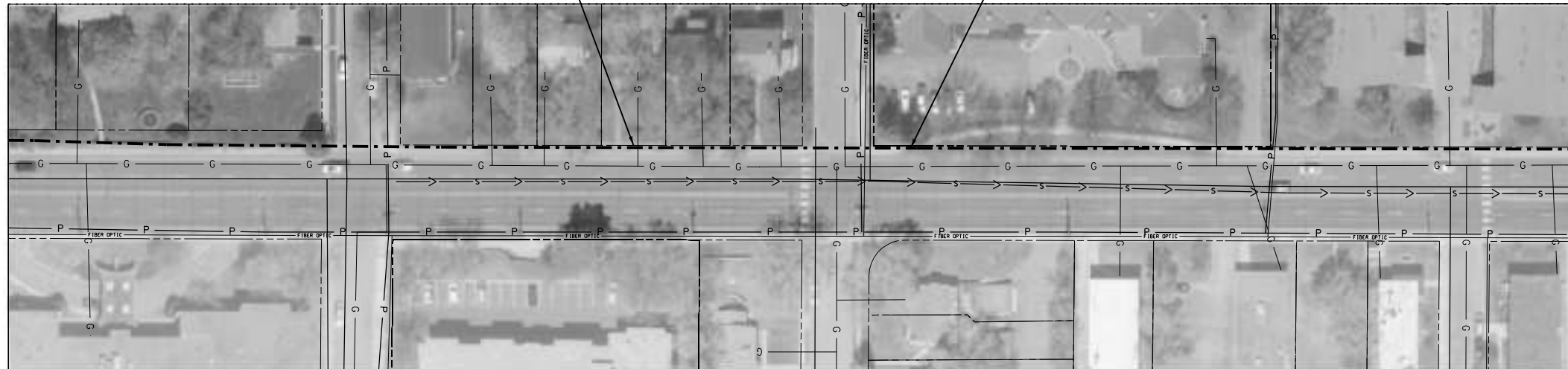
CAC-5-F TO SV-5-11
1-1 1/4" NMC HDPE (CORE DRILL)
1-48 SM FIBER OPTIC CABLE
1-1/C #12

NATCHEZ AVE S.

MONTEREY AVE

SV-5-11 TO SV-5-12
1-1 1/4" NMC (HDPE)
1-144 SM FIBER OPTIC CABLE
1-1/C #12
1-1 1/4" NMC (HDPE)
EMPTY

C.S.A.H. NO. 5



LYNN AVE

SEE SHEET 3 FOR GENERAL NOTES.



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45896

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CAD BY:

J WANNER

CHECKED BY:

R ALLERS

LAST REVISION:

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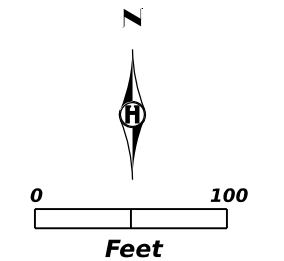
SHEET

80

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SV-5-11 TO SV-5-12
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-5-12
 X: 513153.298
 Y: 157407.928



CITY OF ST. LOUIS PARK
 CITY OF MINNEAPOLIS

SV-5-12 TO SV-5-13
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY
SV-5-13
 X: 513156.604
 Y: 157324.276
CAC-5-G TO SV-5-13
 1-1 1/4" NMC HDPE (CORE DRILL)
 1-48 SM FIBER OPTIC CABLE
 1-1/C #12

SV-5-13 TO SV-5-14
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-5-14 TO SV-5-15
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-5-14
 X: 513442.816
 Y: 157232.905

SV-5-13 TO SV-5-14
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

CAC-5-H TO SV-5-14
 1-1 1/4" NMC HDPE (CORE DRILL)
 1-48 SM FIBER OPTIC CABLE
 1-1/C #12

SV-5-15
 X: 513535.050
 Y: 157140.762

SV-5-15 TO SV-5-16
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

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 GENERAL NOTES.



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45896 06/01/2020
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CSAH 5 PLAN

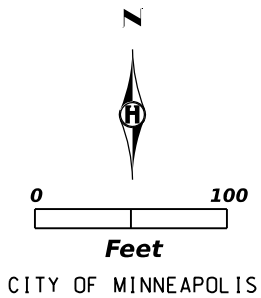
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81

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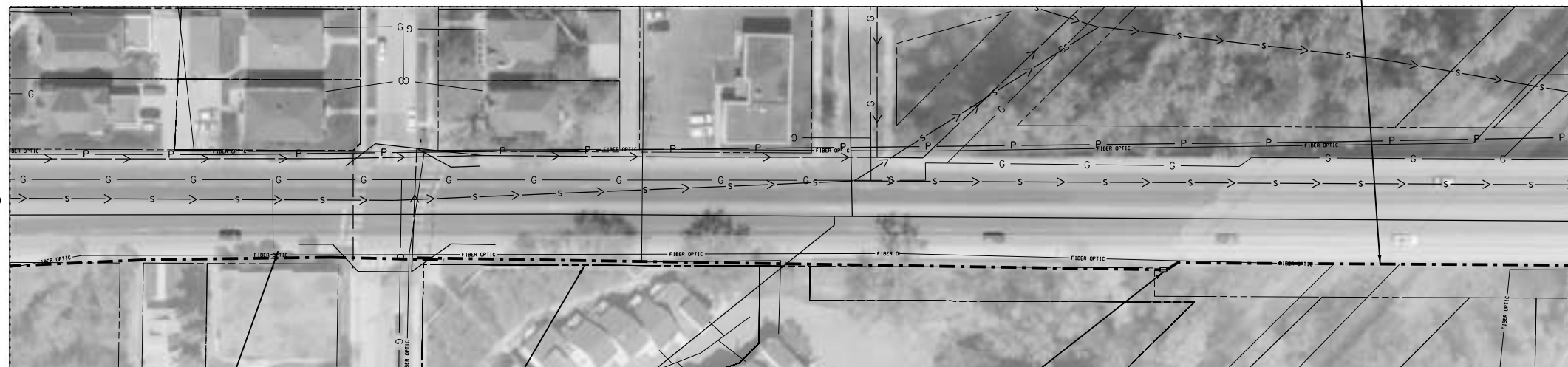


TWIN CITIES AND
MET COUNCIL SWLRT

CHOWEN AVE S.

DREW AVE S.

SV-5-16 TO SV-5-17
* 3" RSC CONDUIT ON BRIDGE
1-144 SM FIBER OPTIC CABLE

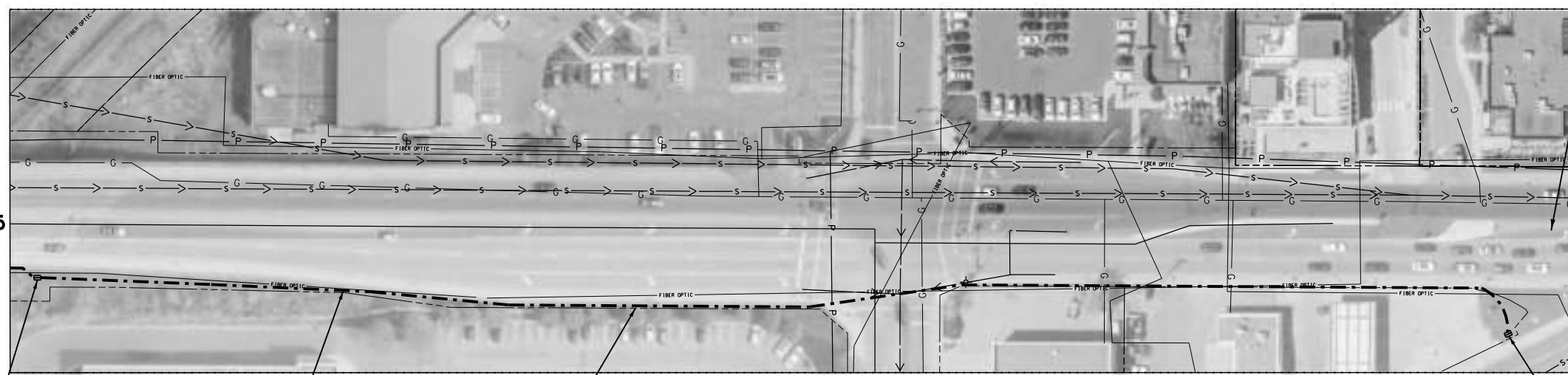


C.S.A.H. NO. 25

SV-5-15 TO SV-5-16
1-1 1/4" NMC (HDPE)
1-144 SM FIBER OPTIC CABLE
1-1/C #12
1-1 1/4" NMC (HDPE)
EMPTY

SV-5-16
X: 515324.867
Y: 157323.687

* MOUNT THE CONDUIT TO THE EXTERIOR SOUTH FASIA OF THE BRIDGE DECK.
(SEE DETAIL SHEET 20)



C.S.A.H. NO. 25

SV-5-17
X: 515630.779
Y: 157319.997

SV-5-17 TO SV-3-49
1-1 1/4" NMC (HDPE)
1-144 SM FIBER OPTIC CABLE
1-1/C #12
1-1 1/4" NMC (HDPE)
EMPTY

MARKET PLAZA

C.S.A.H. 25 (END SEGMENT 3)
MILE PT. 1.39
STA. 73+39.20

SV-3-49
X: 516667.476
Y: 157280.294
CONNECT TO CSAH 3

C.S.A.H. NO. 3

SEE SHEET 3 FOR
GENERAL NOTES.



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CSAH 5 PLAN

2020 ATMS / HENNEPIN COUNTY PROJECT 164402

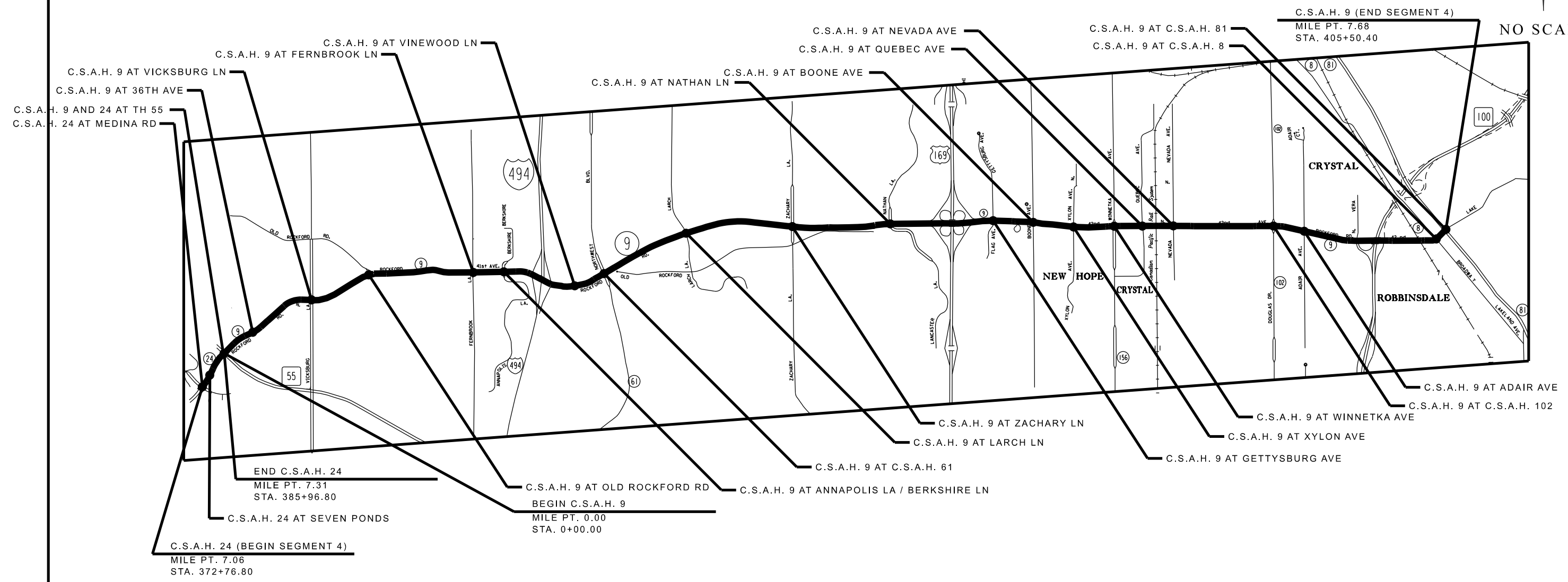
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NO SCALE



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CSAH 9 LOCATION MAP

2020 ATMS / HENNEPIN COUNTY PROJECT 164402

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CSAH 9				
COMPANY	CONTACT	EMAIL	PHONE	UTILITIES
ARVIG	CURT OLSON	curtis.olson@arvig.com	218-346-5500	PHONE/CABLE/INT
AT&T TRANSMISSION	DAVID ROBERT	dr2945@att.com	612-804-1797	PHONE/CABLE/INT
CITY OF CRYSTAL	DAVE FRITZKE	Dave.Fritzke@crystalmn.gov	763-531-1163	ELECTRIC, TRAFFIC SIGNAL, WATER, AND SEWER
ROGERS COMMUNICATIONS	VICKIE MORAN	vmoran@gabes.com	920-395-7125	FIBER OPTICS
CITY OF NEW HOPE	MEGAN HEDSTROM	mhedstrom@newhopemn.gov	763-592-6765	STORM, SEWER, AND WATER
CITY OF PLYMOUTH	JOE PAUMEN	jpaumen@plymouthmn.gov	763-509-5993	STORM, SEWER, AND WATER
CITY OF ROBBINSDALE	ROBIN VERKINNES	rverkinnes@CI.ROBBINSDALE.MN.US	763-531-1263	STORM, SEWER, AND WATER
COMCAST	LYNNE	usicprintrequests@gmail.com	612-919-0760	PHONE/CABLE/INT
CENTURYLINK - CTLQL	SUSAN BLUE	Susan.Blue@CenturyLink.com	800-667-9963	PHONE/CABLE/INT
CONSOLIDATED COMMUNICATIONS I	TRUDY BOELTER	Trudy.Boelter@consolidated.com	701-356-6003	FIBER OPTICS
HENNEPIN COUNTY PUBLIC WORKS	BRANT KOUGH	brant.kough@hennepin.us	612-596-0339	TRAFFIC SIGNALS/FIBER
CENTER POINT ENERGY	CATHY FRAUTSCHI	Cathy.Frautschi@centerpointenergy.com	800-778-9140	GAS
MNDOT	TYLER MONSON	tyler.monson@state.mn.us	651-366-5750	LIGHTING/SIGNALS/FIBER
WAYZATA PUBLIC SCHOOLS	LOCATOR		218-346-5500	FIBER OPTICS
NORTH MEMORIAL HOSPITAL	BARB	privloc@yahoo.com	763-581-2396	ELECTRICAL
ROBBINSDALE AREA SCHOOLS	LOCATOR		218-346-5500	FIBER OPTICS
TDS METROCOM	MIKE DOOMER		612-715-3589	FIBER OPTICS
THREE RIVERS PARK DISTRICT	ADAM BURNS	Adam.Burns@threeriversparks.org	763-559-6762	ELECTRIC, FIBER OPTICS, GAS, WATER, AND SEWER
SPRINT/LONG DISTANCE	BRETT GIEMSE	Brett.D.Giemse@sprint.com	800-521-0579	FIBER OPTICS
WINDSTREAM COMMUNICATIONS	JOANNA BELL	Joanna.Bell@windstream.com	800-289-1901	PHONE
WRIGHT HENNEPIN COOP	JULIE KISNER	jkisner@whe.org	763-477-3100	POWER
XCEL ENERGY	SAM RICHERT	Samuel.L.Richert@xcelenergy.com	612-499-1303	POWER
ZAYO BANDWIDTH	JASON OVERKAMP	jason.overkamp@zayo.com	651-788-5890	FIBER OPTICS



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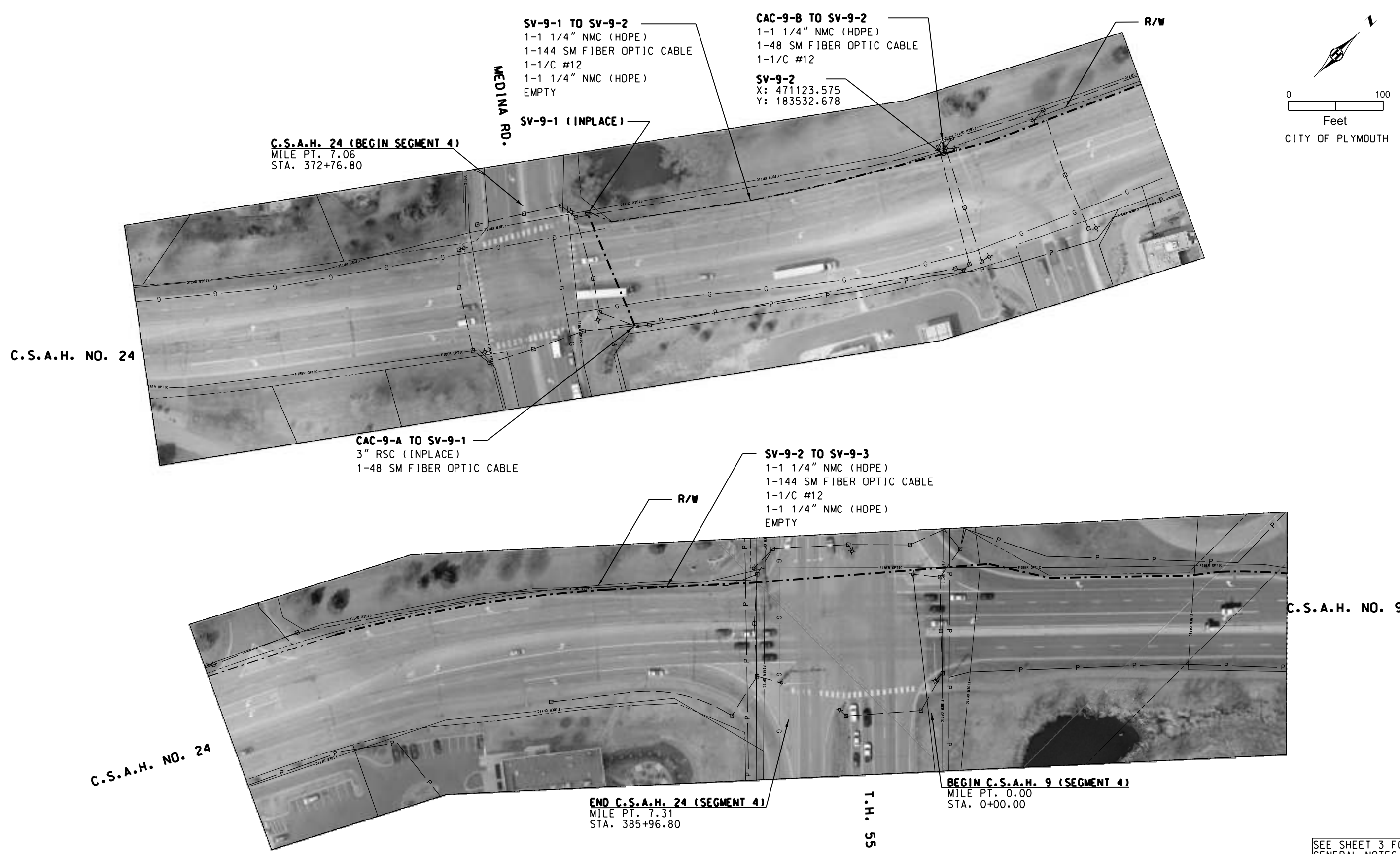
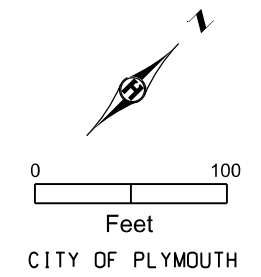
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CSAH 9 UTILITY CONTACT INFORMATION

2020 ATMS / HENNEPIN COUNTY PROJECT 164402
 S.P. 027-030-047

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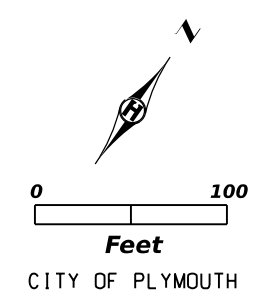
CSAH 9 PLAN

2020 ATMS / HENNEPIN COUNTY PROJECT 164402

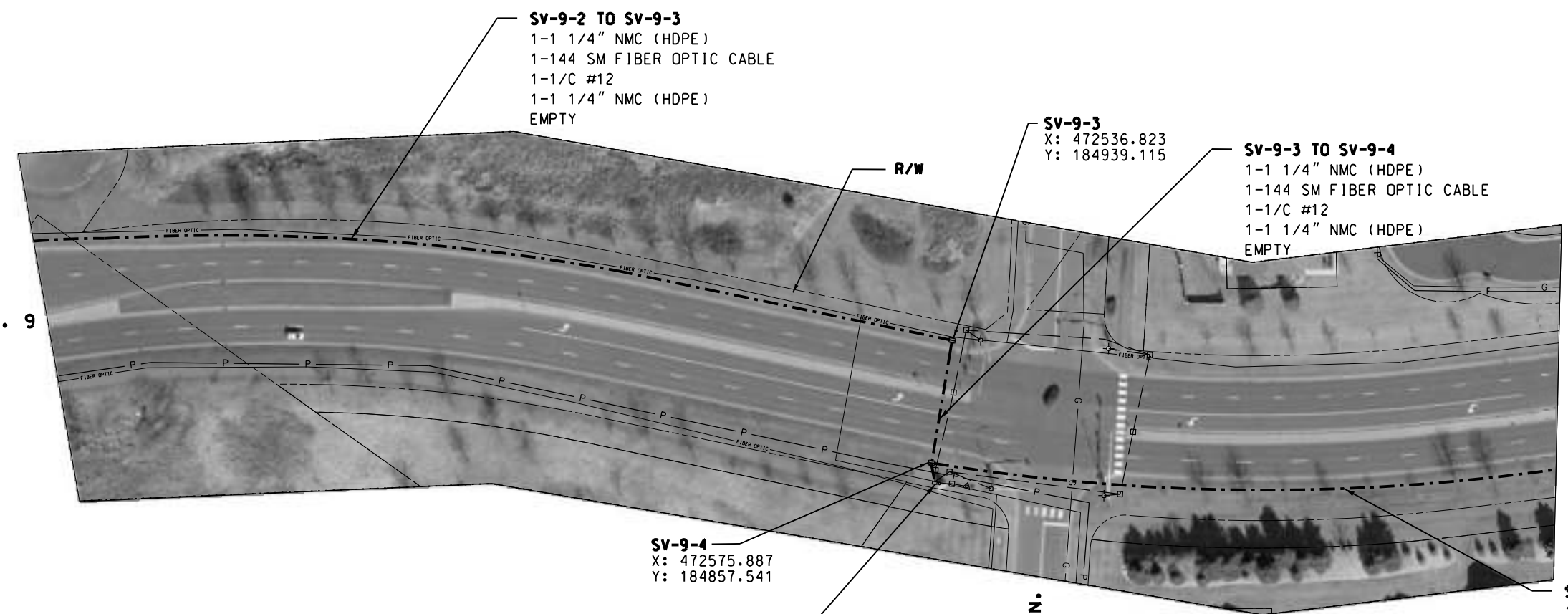
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SHEET

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C.S.A.H. NO. 9



SV-9-2 TO SV-9-3
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-9-3
 X: 472536.823
 Y: 184939.115

SV-9-3 TO SV-9-4
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

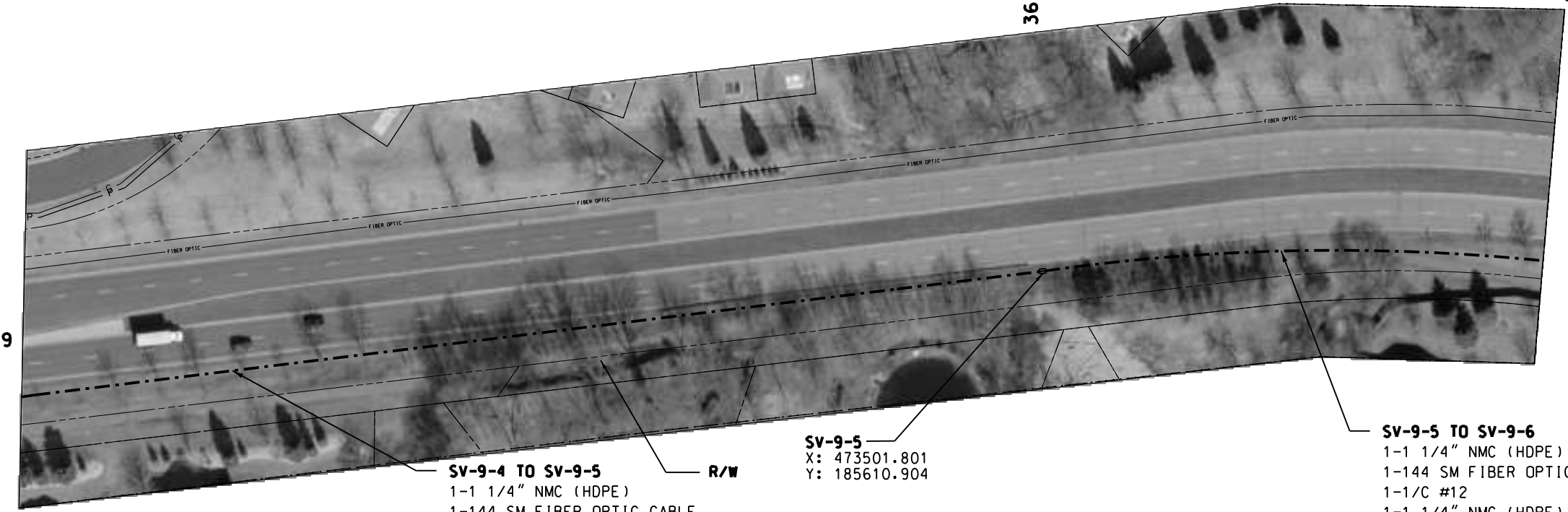
SV-9-4
 X: 472575.887
 Y: 184857.541

CAC-9-C TO SV-9-4
 1-1 1/4" NMC HDPE (CORE DRILL)
 1-48 SM FIBER OPTIC CABLE
 1-1/C #12

SV-9-4 TO SV-9-5
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

36TH AVE N.

C.S.A.H. NO. 9



SV-9-4 TO SV-9-5
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-9-5
 X: 473501.801
 Y: 185610.904

SV-9-5 TO SV-9-6
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

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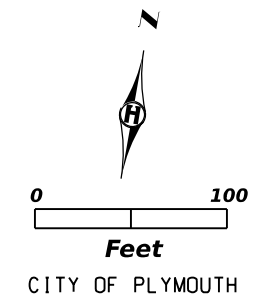
CSAH 9 PLAN

2020 ATMS / HENNEPIN COUNTY PROJECT 164402

S.P. 027-030-047

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C.S.A.H. NO. 9

SV-9-5 TO SV-9-6
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

CAC-9-0 TO SV-9-6
 1-1 1/4" NMC HDPE (CORE DRILL)
 1-48 SM FIBER OPTIC CABLE
 1-1/C #12

SV-9-6
 X: 474634.860
 Y: 185935.995

SV-9-6 TO SV-9-7
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

VICKSBURG LA W.

SV-9-6 TO SV-9-7
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

C.S.A.H. NO. 9

SV-9-7 TO SV-9-8
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-9-7
 X: 475388.667
 Y: 186116.669

PLYMOUTH BLVD

SEE SHEET 3 FOR GENERAL NOTES.

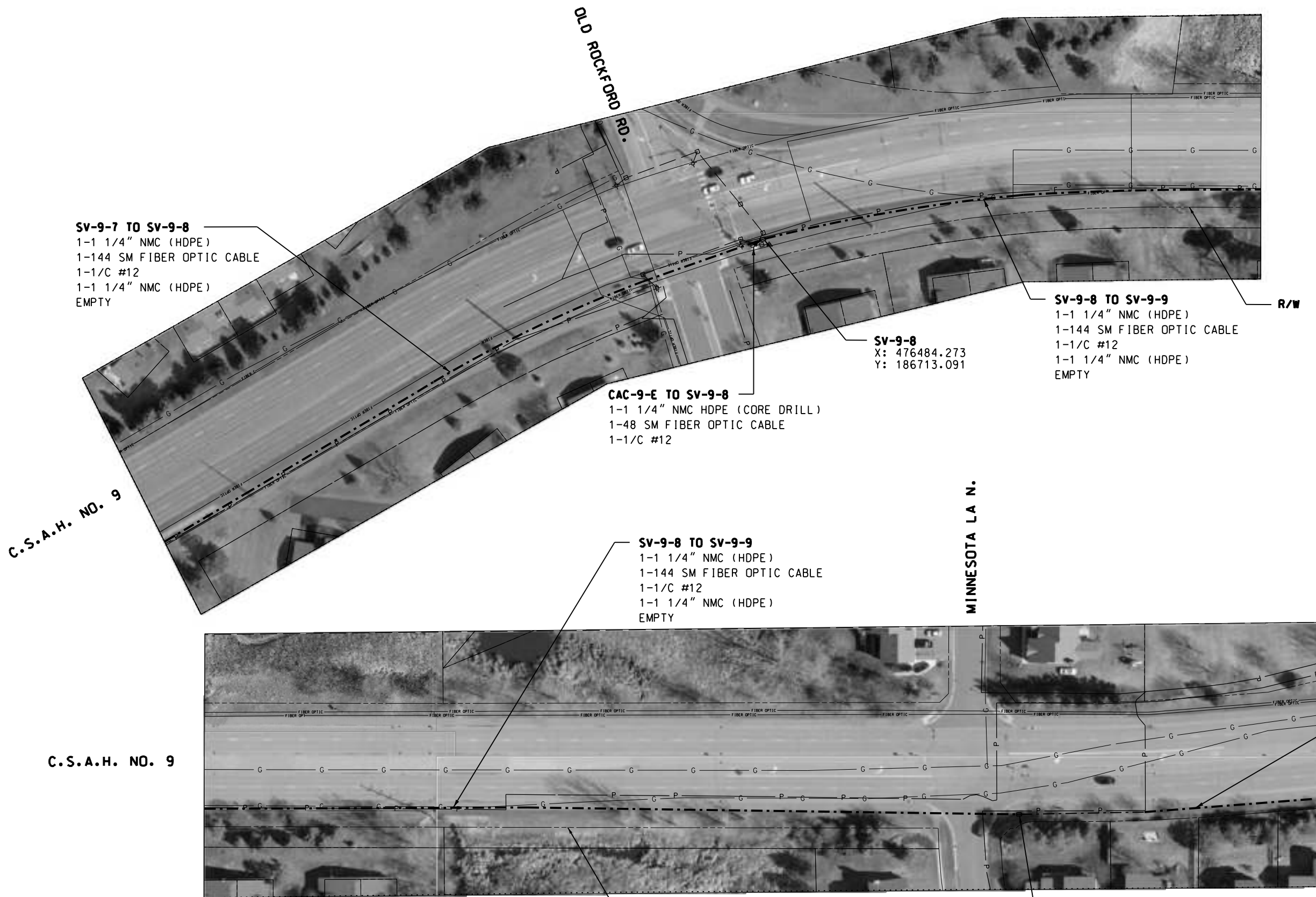
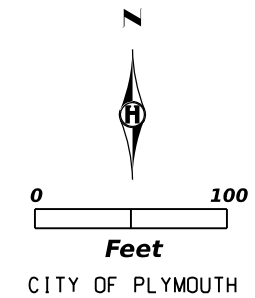


I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
 Ryan T. Allers
 RYAN T. ALLERS, LICENSED PROFESSIONAL ENGINEER
 45896 LICENSE NO. 06/01/2020 DATE

DESIGN BY: J WANNER
 CAD BY: J WANNER
 CHECKED BY: R ALLERS
 LAST REVISION: / /

CSAH 9 PLAN
 2020 ATMS / HENNEPIN COUNTY PROJECT 164402
 S.P. 027-030-047

SHEET
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SV-9-7 TO SV-9-8
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-9-8
 X: 476484.273
 Y: 186713.091

CAC-9-E TO SV-9-8
 1-1 1/4" NMC HDPE (CORE DRILL)
 1-48 SM FIBER OPTIC CABLE
 1-1/C #12

SV-9-8 TO SV-9-9
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-9-8 TO SV-9-9
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-9-9 TO SV-9-10
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-9-9
 X: 477756.413
 Y: 186755.974

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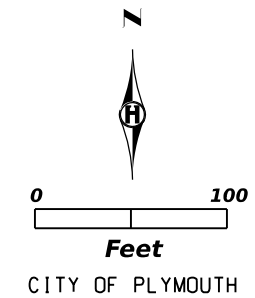
CSAH 9 PLAN

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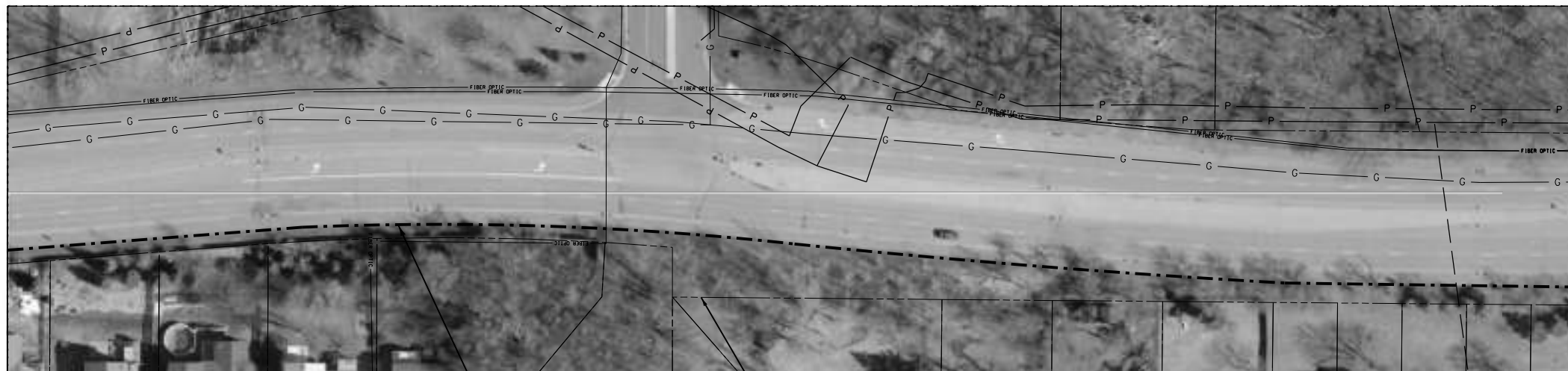
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C.S.A.H. NO. 9



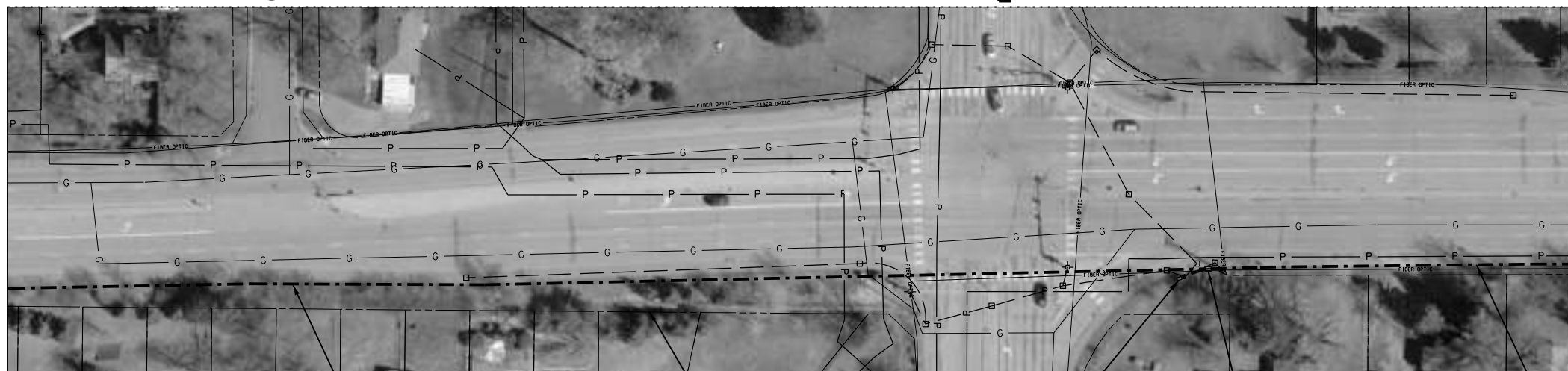
GLACIER LA N.

JUNEAU LA N.

FERNBROOK LA N.

SV-9-9 TO SV-9-10
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

C.S.A.H. NO. 9



SV-9-9 TO SV-9-10
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

CAC-9-F TO SV-9-10
 1-1 1/4" NMC HDPE (CORE DRILL)
 1-48 SM FIBER OPTIC CABLE
 1-1/C #12

SV-9-10
 X: 479990.725
 Y: 186759.546

SV-9-10 TO SV-9-11
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

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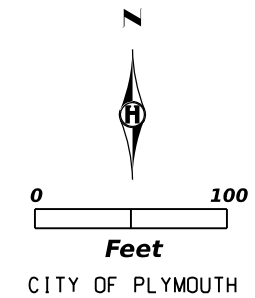
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C.S.A.H. NO. 9

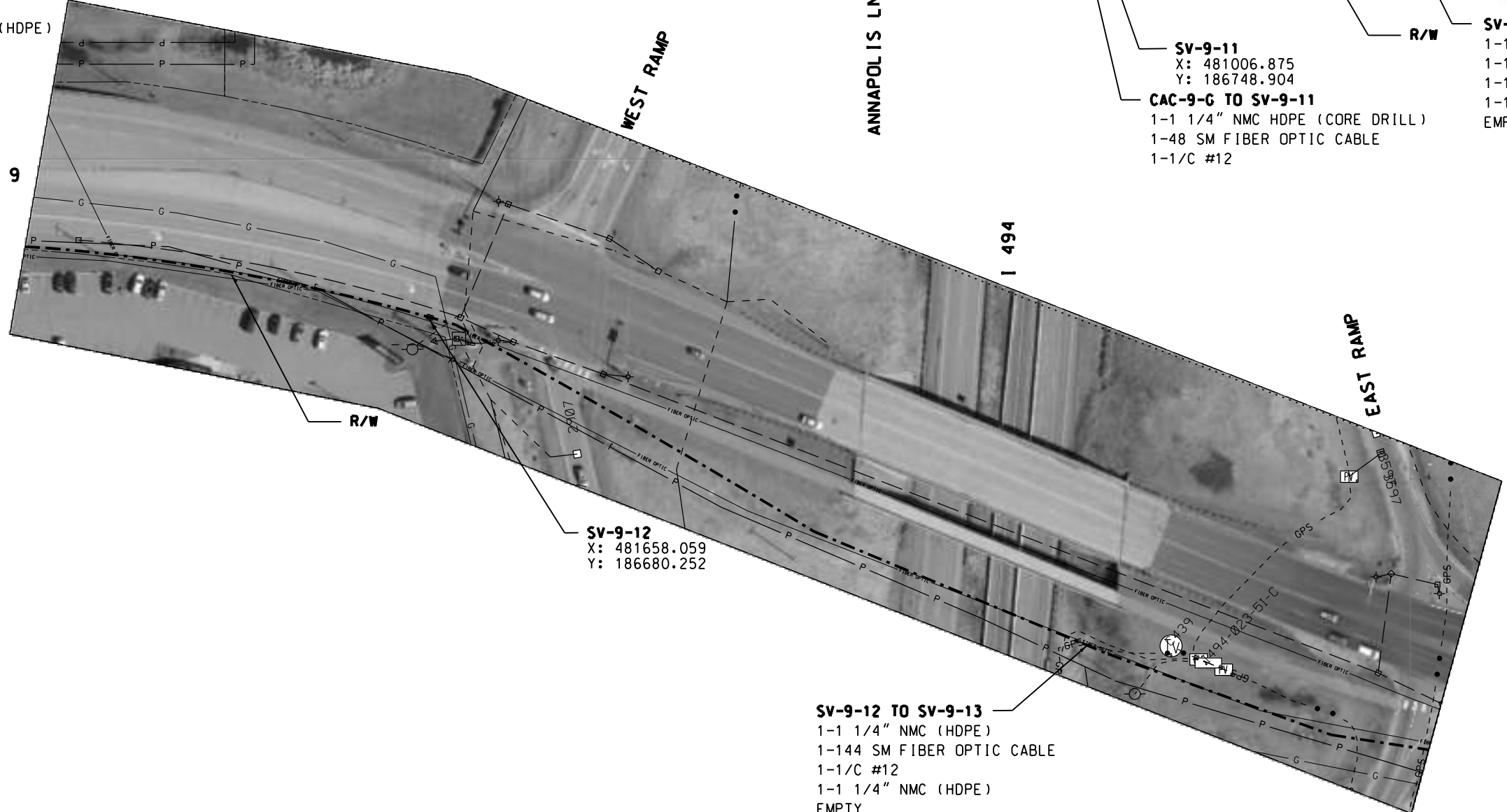
BERKSHIRE LA

ANNAPOLIS LN

SV-9-10 TO SV-9-11
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-9-11
 X: 481006.875
 Y: 186748.904
CAC-9-G TO SV-9-11
 1-1 1/4" NMC HDPE (CORE DRILL)
 1-48 SM FIBER OPTIC CABLE
 1-1/C #12

SV-9-11 TO SV-9-12
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY



C.S.A.H. NO. 9

I 494

WEST RAMP

EAST RAMP

R/W

SV-9-12
 X: 481658.059
 Y: 186680.252

SV-9-12 TO SV-9-13
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

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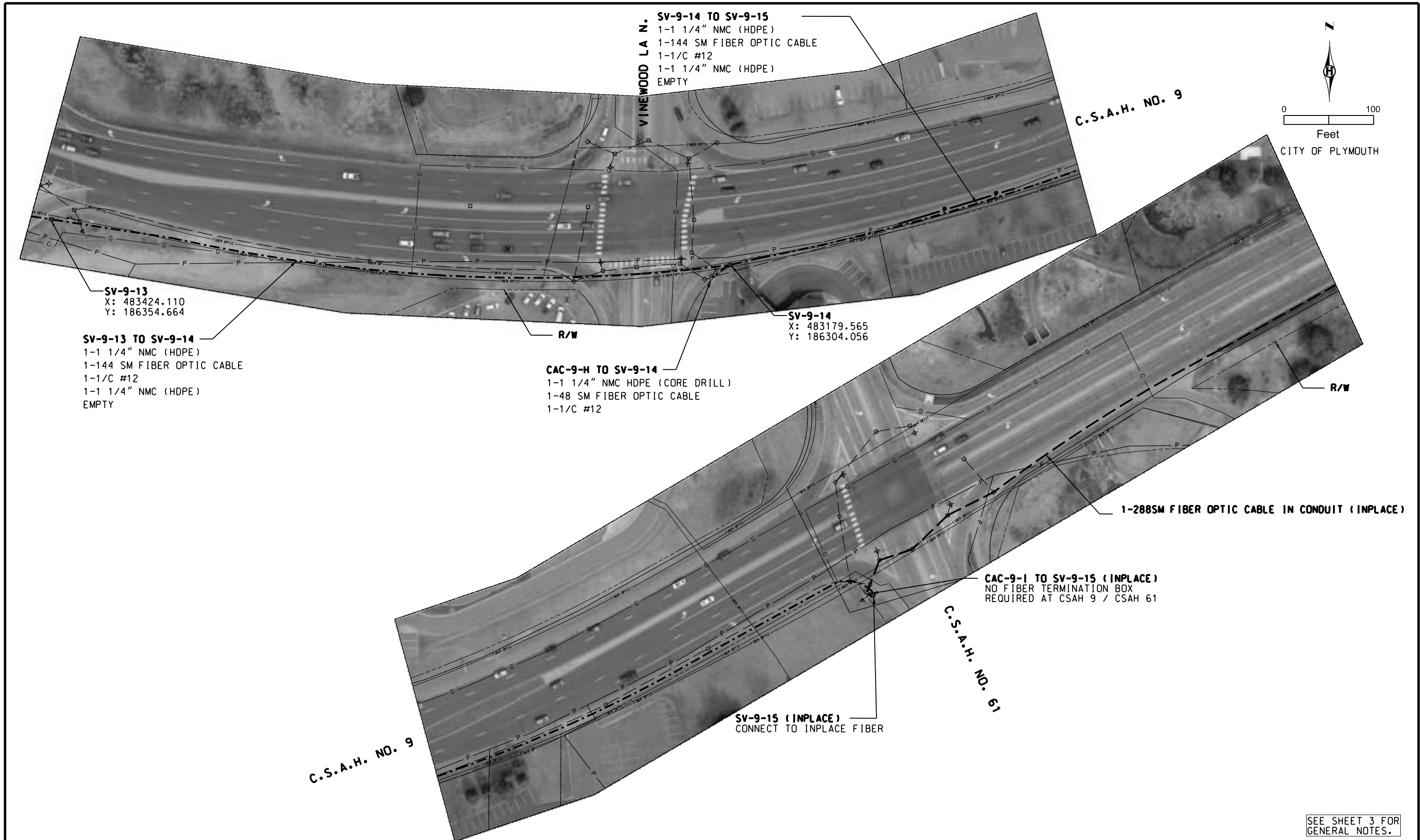
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SHEET

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SV-9-14 TO SV-9-15
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-9-13
 X: 483424.110
 Y: 186354.664

SV-9-13 TO SV-9-14
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-9-14
 X: 483179.565
 Y: 186304.056

CAC-9-H TO SV-9-14
 1-1 1/4" NMC HDPE (CORE DRILL)
 1-48 SM FIBER OPTIC CABLE
 1-1/C #12

CAC-9-I TO SV-9-15 (INPLACE)
 NO FIBER TERMINATION BOX
 REQUIRED AT CSAH 9 / CSAH 61

SV-9-15 (INPLACE)
 CONNECT TO INPLACE FIBER

1-288SM FIBER OPTIC CABLE IN CONDUIT (INPLACE)

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 GENERAL NOTES.



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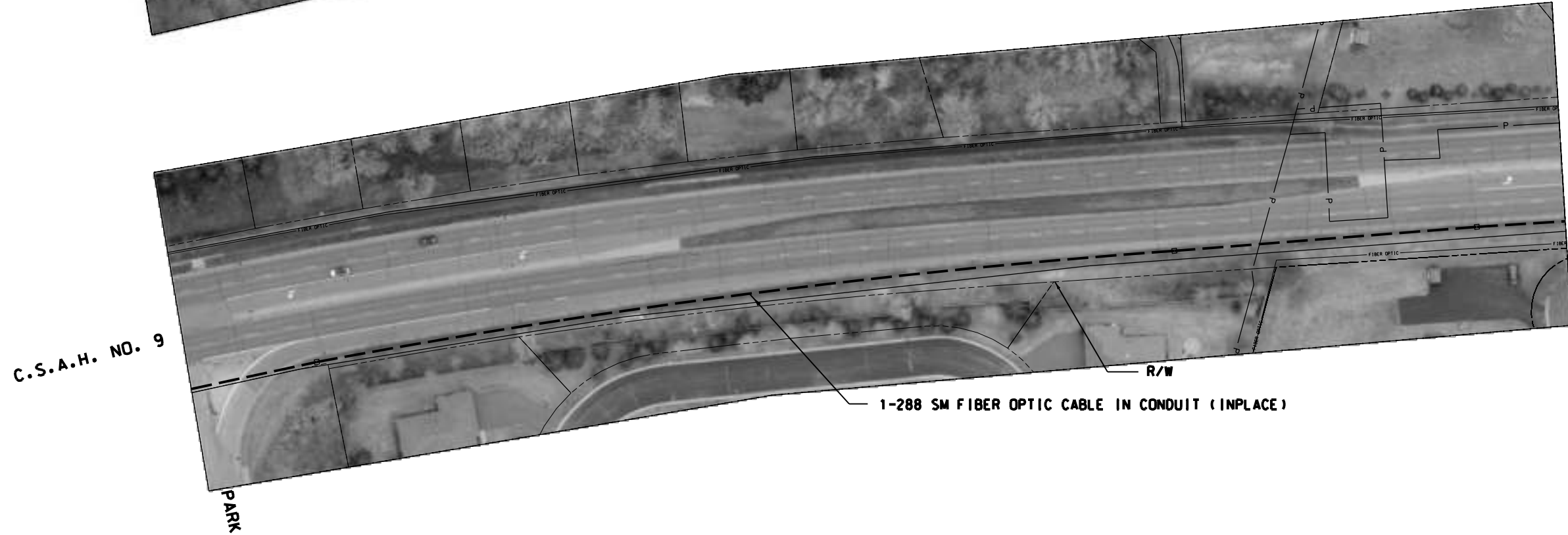
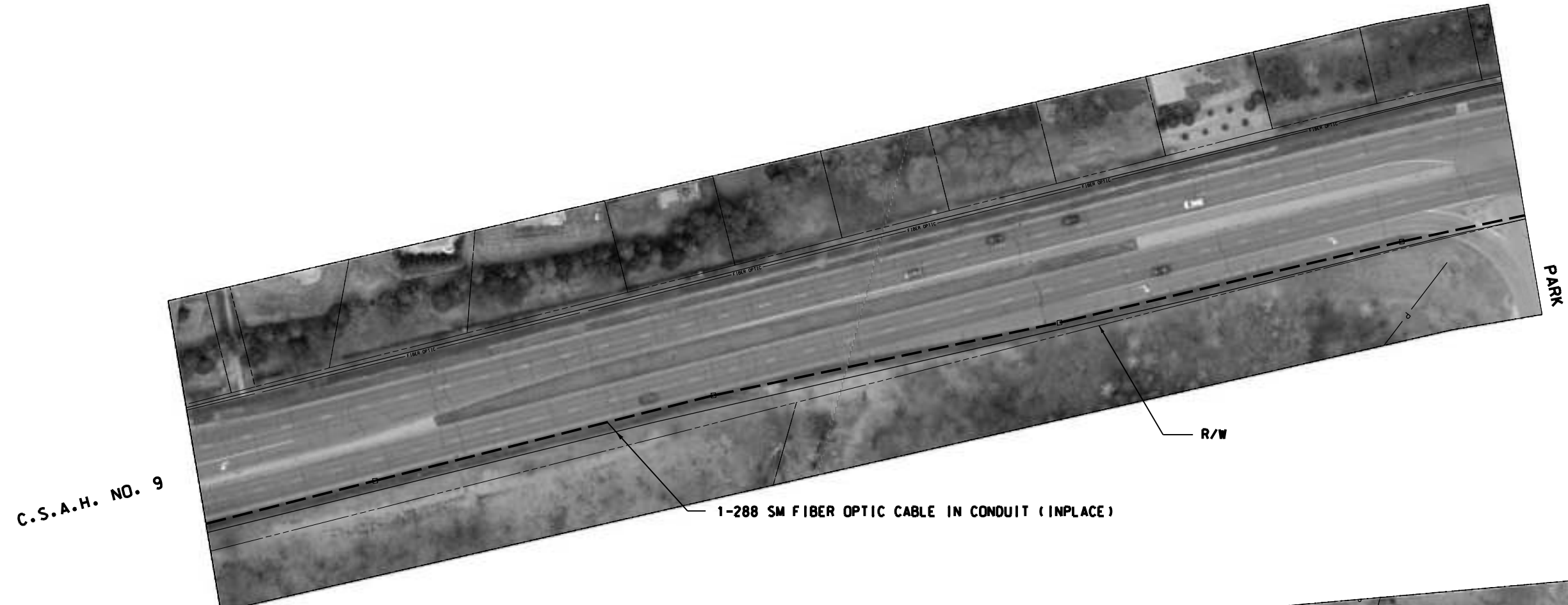
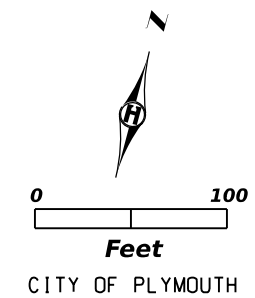
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2020 ATMS / HENNEPIN COUNTY PROJECT 164402
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SHEET
 91
 104



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GENERAL NOTES.



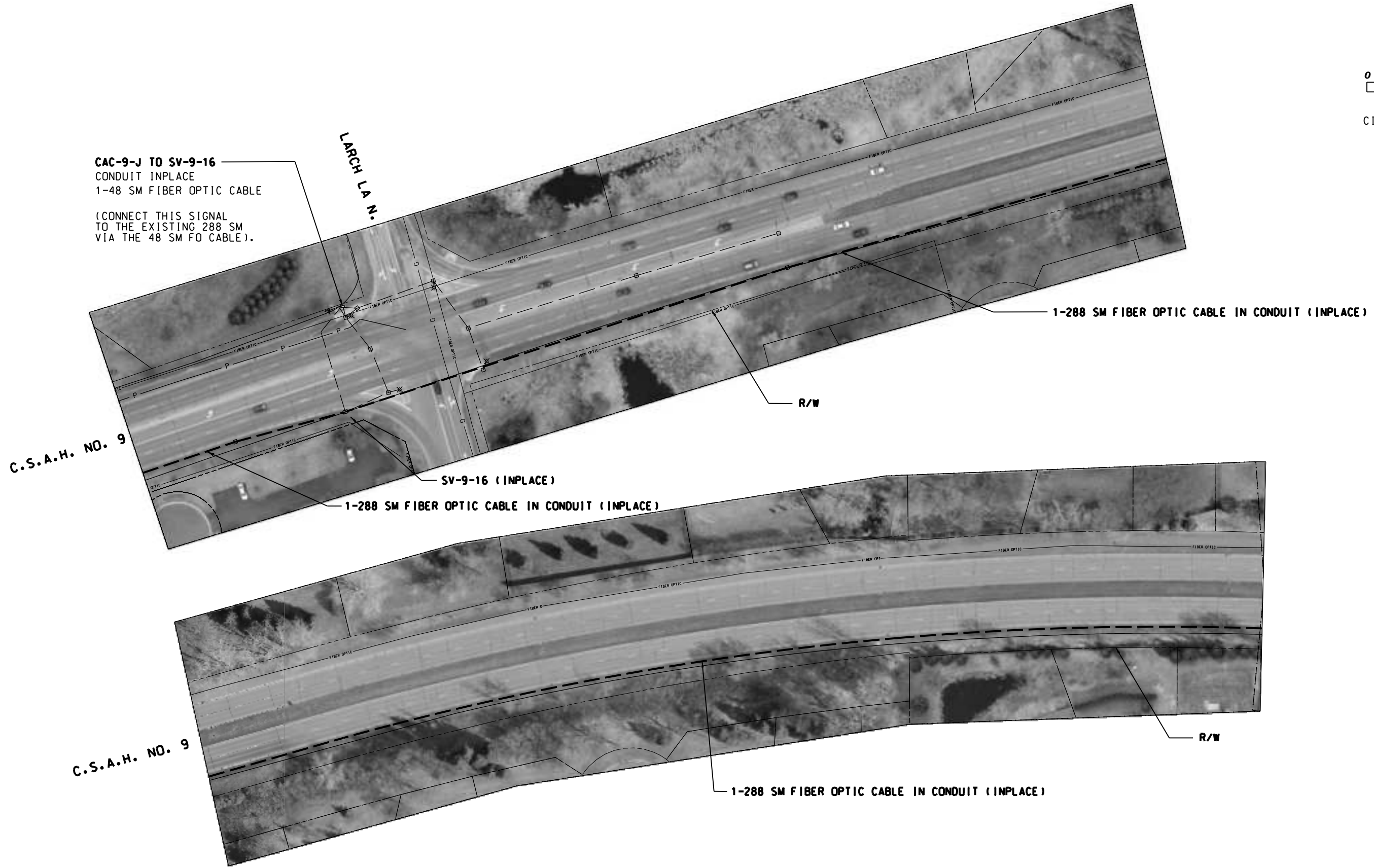
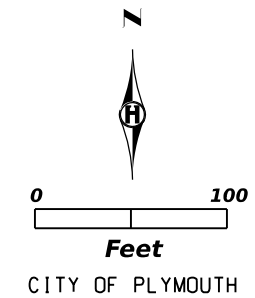
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 2020 ATMS / HENNEPIN COUNTY PROJECT 164402
 S.P. 027-030-047

SHEET
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CAC-9-J TO SV-9-16
 CONDUIT INPLACE
 1-48 SM FIBER OPTIC CABLE
 (CONNECT THIS SIGNAL
 TO THE EXISTING 288 SM
 VIA THE 48 SM FO CABLE).

1-288 SM FIBER OPTIC CABLE IN CONDUIT (INPLACE)

SV-9-16 (INPLACE)
 1-288 SM FIBER OPTIC CABLE IN CONDUIT (INPLACE)

1-288 SM FIBER OPTIC CABLE IN CONDUIT (INPLACE)

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 GENERAL NOTES.



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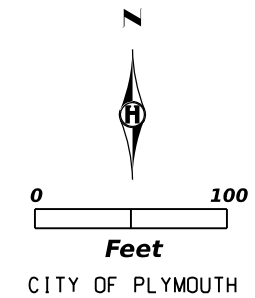
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 CAD BY: J WANNER
 CHECKED BY: R ALLERS
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CSAH 9 PLAN

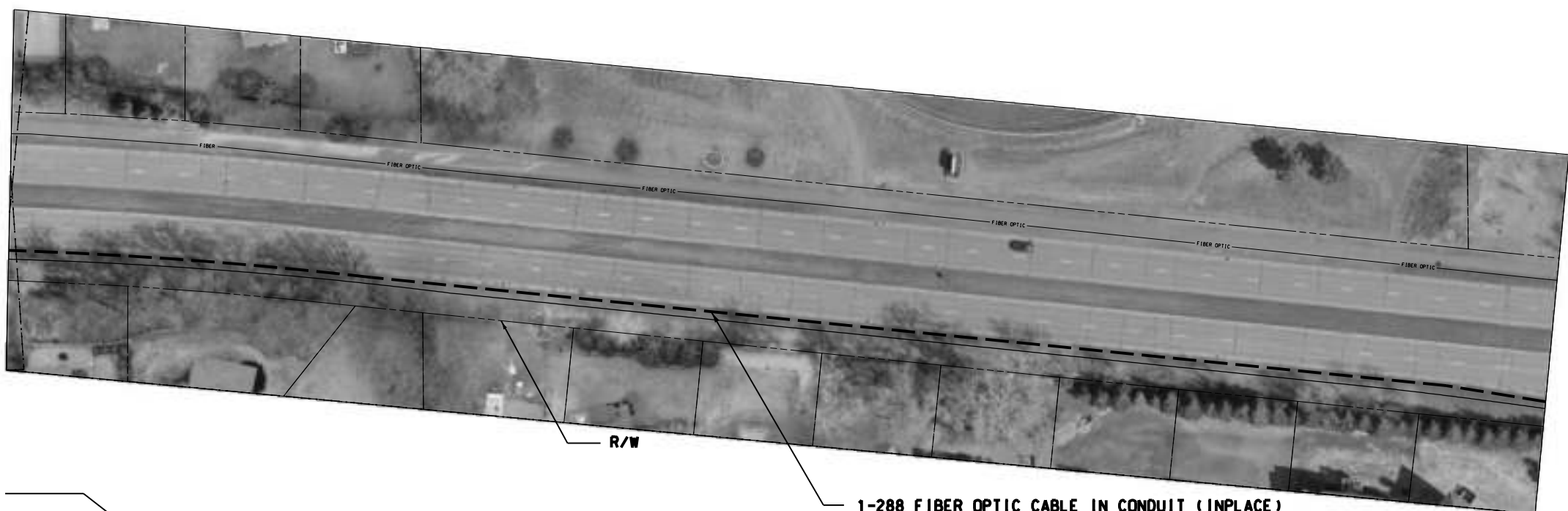
2020 ATMS / HENNEPIN COUNTY PROJECT 164402
 S.P. 027-030-047

SHEET

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C.S.A.H. NO. 9



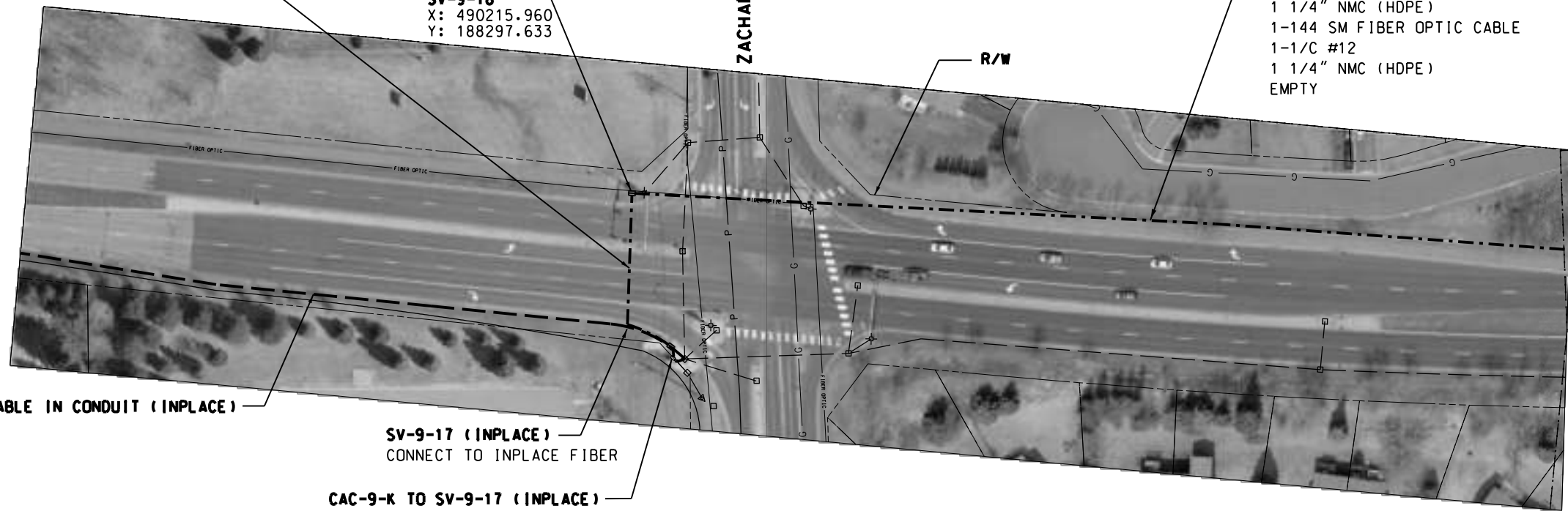
SV-9-17 TO SV-9-18
 1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1 1/4" NMC (HDPE)
 EMPTY

SV-9-18
 X: 490215.960
 Y: 188297.633

ZACHARY LA N.

SV-9-18 TO SV-9-19
 1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1 1/4" NMC (HDPE)
 EMPTY

C.S.A.H. NO. 9



1-288 FIBER OPTIC CABLE IN CONDUIT (INPLACE)

SV-9-17 (INPLACE)
 CONNECT TO INPLACE FIBER

CAC-9-K TO SV-9-17 (INPLACE)
 1 1/4" NMC HDPE (INPLACE)
 1-48 SM FIBER OPTIC CABLE
 (CONNECT THIS SIGNAL
 TO THE EXISTING 288 SM
 VIA THE 48 SM FO CABLE).

SEE SHEET 3 FOR
 GENERAL NOTES.



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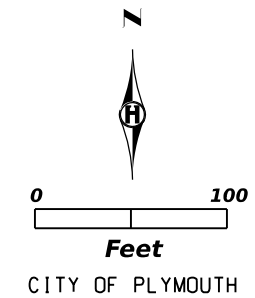
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 CAD BY: J WANNER
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2020 ATMS / HENNEPIN COUNTY PROJECT 164402
 S.P. 027-030-047

SHEET

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SV-9-18 TO SV-9-19
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-9-19
 X: 491873.105
 Y: 188283.411

C.S.A.H. NO. 9

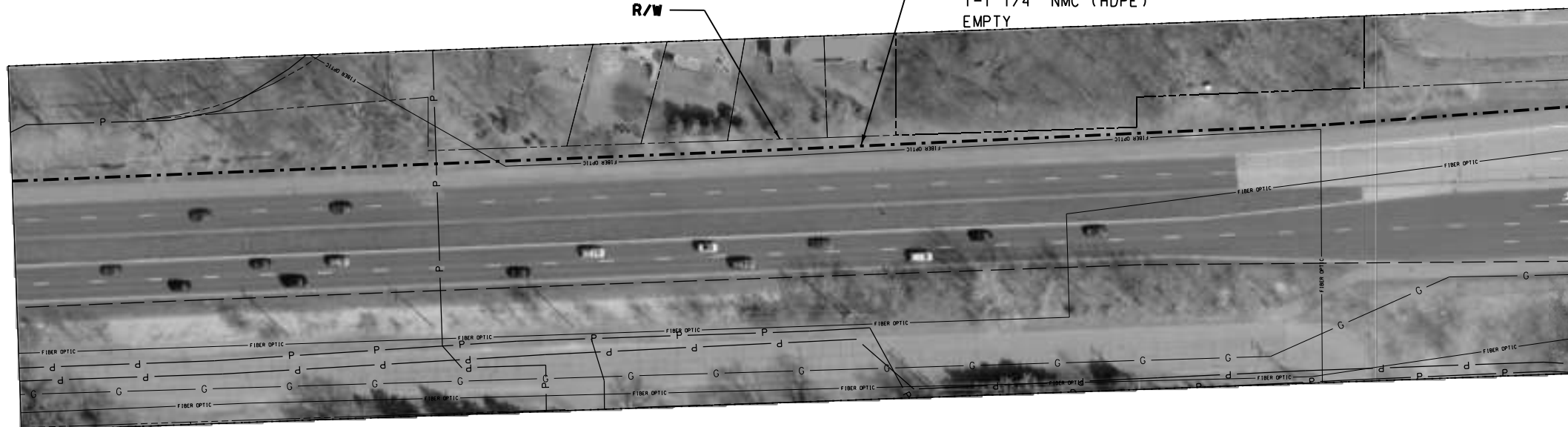
R/W



SV-9-19 TO SV-9-20
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

C.S.A.H. NO. 9

R/W



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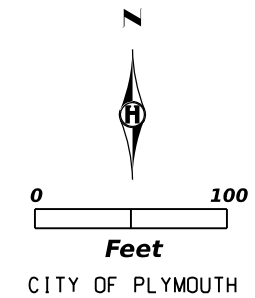
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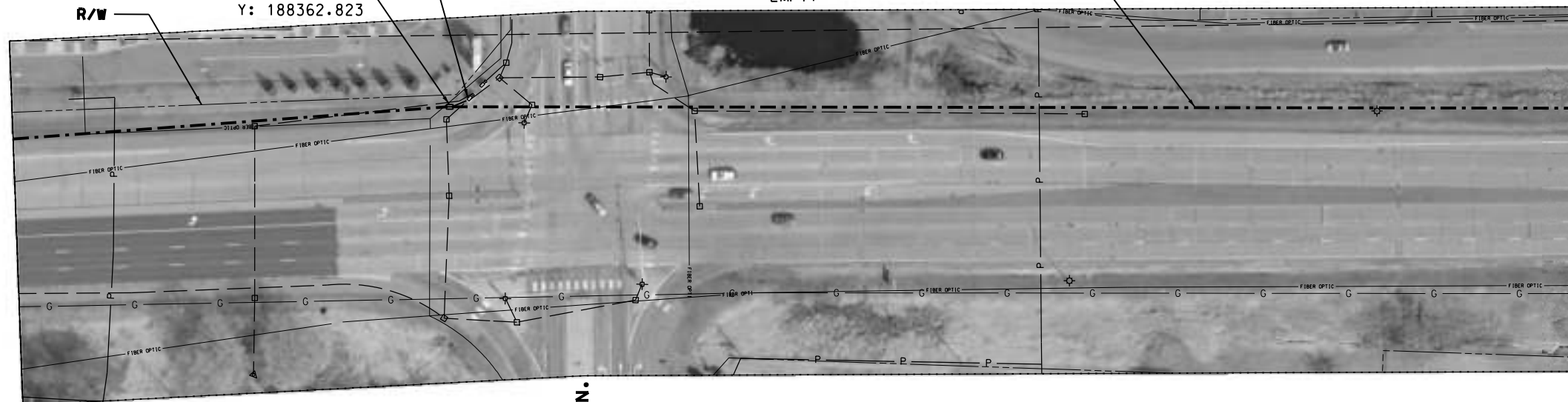
95
 104



CAC-9-L TO SV-9-20
 1-1 1/4" NMC HDPE (CORE DRILL)
 1-48 SM FIBER OPTIC CABLE
 1-1/C #12

SV-9-20
 X: 493383.016
 Y: 188362.823

SV-9-20 TO SV-9-21
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

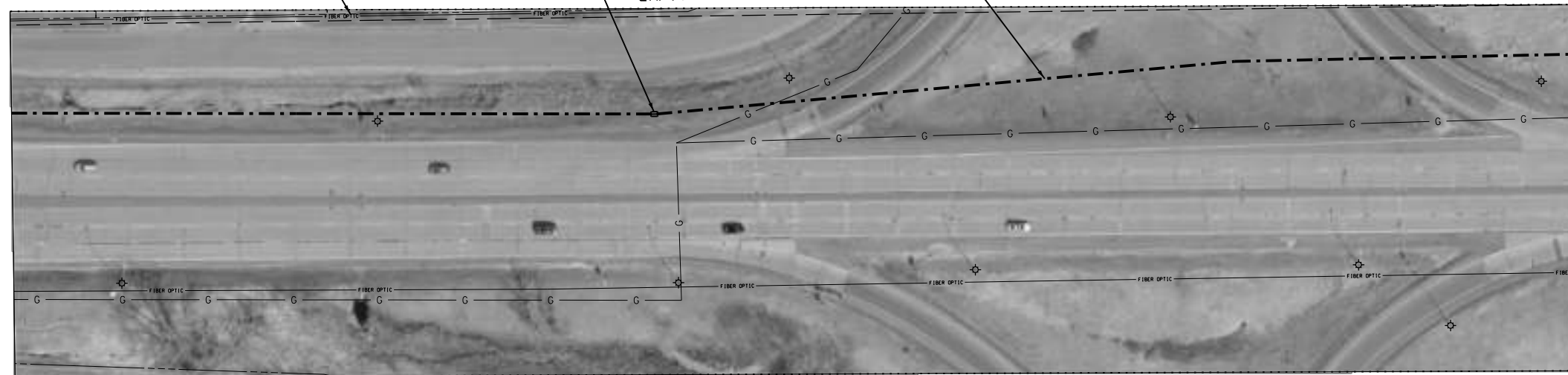


C.S.A.H. NO. 9

NATHAN LA N.

SV-9-21 TO SV-9-22
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-9-21
 X: 494627.465
 Y: 188361.228



C.S.A.H. NO. 9

T.H. 169 W. RAMP

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Ryan T. Allers

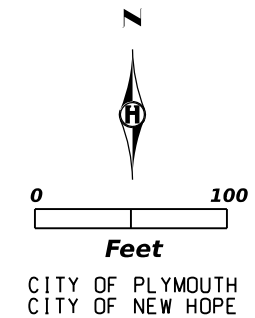
RYAN T. ALLERS, LICENSED PROFESSIONAL ENGINEER

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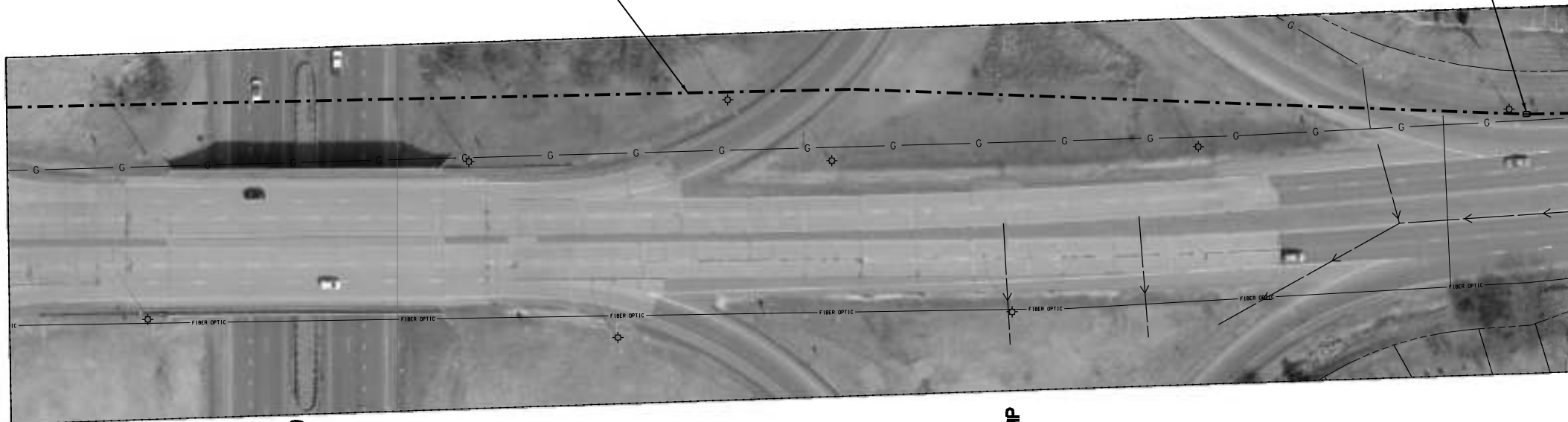
SHEET
 96
 104



SV-9-21 TO SV-9-22
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-9-22
 X: 496339.723
 Y: 188398.559

C.S.A.H. NO. 9



T.H. 169

GETTYSBURG AVE N.

T.H. 169 E. RAMP

CAC-9-M TO SV-9-23
 1-1 1/4" NMC HDPE (CORE DRILL)
 1-48 SM FIBER OPTIC CABLE
 1-1/C #12

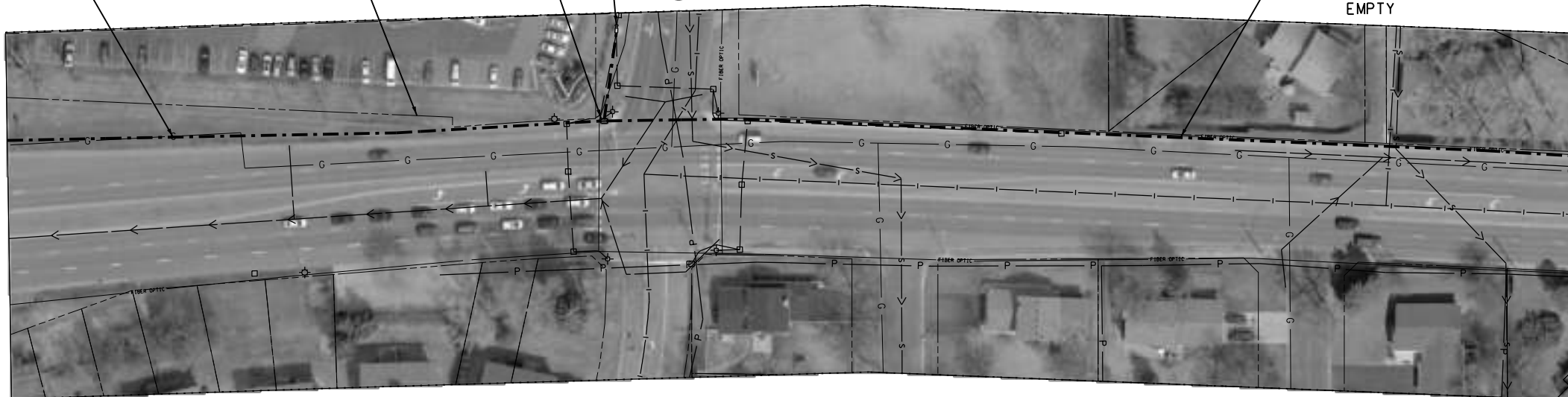
SV-9-23
 X: 496792.696
 Y: 188412.810

SV-9-23 TO SV-9-24
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-9-22 TO SV-9-23
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

R/W

C.S.A.H. NO. 9



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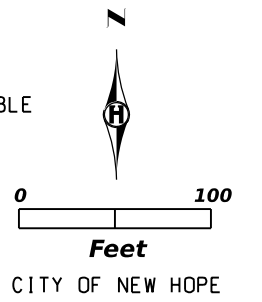
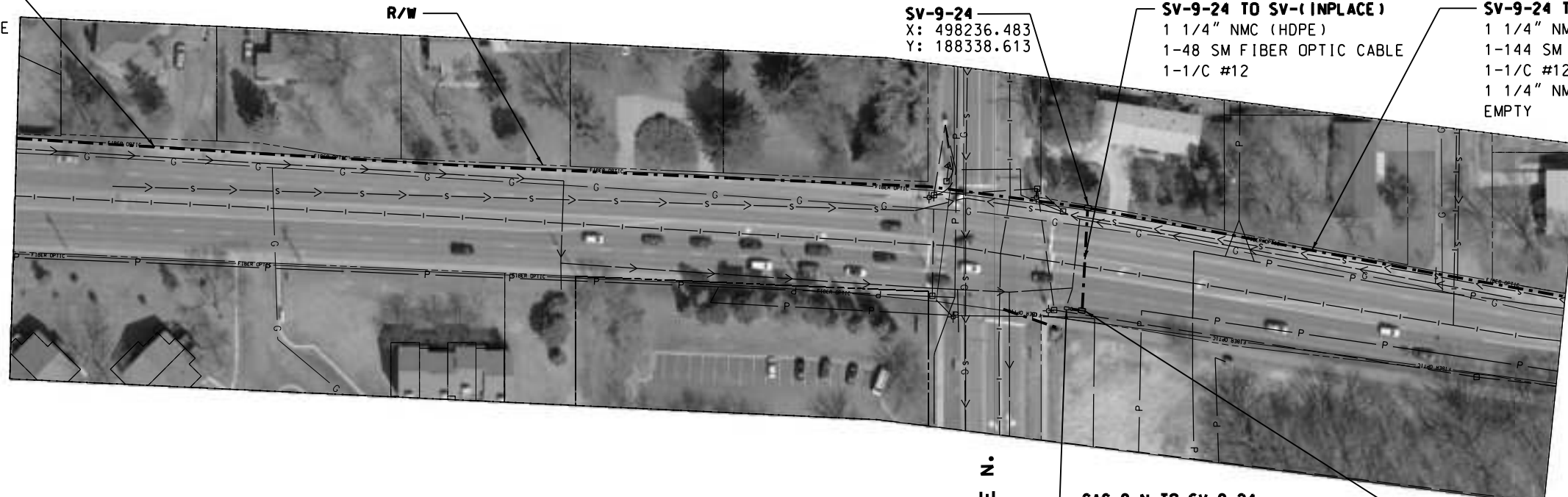
97
 104

SV-9-23 TO SV-9-24
 1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1 1/4" NMC (HDPE)
 EMPTY

SV-9-24
 X: 498236.483
 Y: 188338.613

SV-9-24 TO SV-(INPLACE)
 1 1/4" NMC (HDPE)
 1-48 SM FIBER OPTIC CABLE
 1-1/C #12

SV-9-24 TO SV-9-25
 1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1 1/4" NMC (HDPE)
 EMPTY



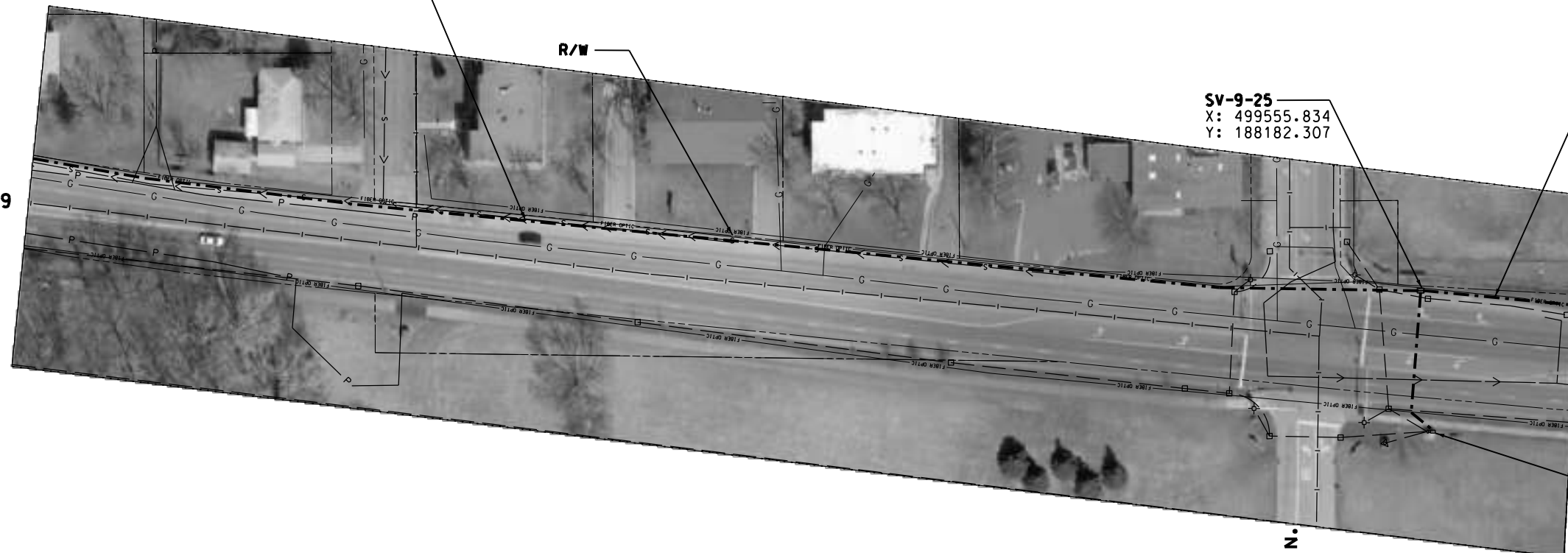
SV-9-24 TO SV-9-25
 1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1 1/4" NMC (HDPE)
 EMPTY

CAC-9-N TO SV-9-24
 1 1/4" NMC HDPE (BY OTHERS)
 1-48 SM FIBER OPTIC CABLE
 1-1/C #12

SV-(INPLACE)
 BY OTHERS

BOONE AVE N.

C.S.A.H. NO. 9



SV-9-25
 X: 499555.834
 Y: 188182.307

SV-9-25 TO SV-9-26
 1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1 1/4" NMC (HDPE)
 EMPTY

CAC-9-0 TO SV-9-25
 1 1/4" NMC HDPE (CORE DRILL)
 1-48 SM FIBER OPTIC CABLE
 1-1/C #12

XYLON AVE N.

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 GENERAL NOTES.



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2020 ATMS / HENNEPIN COUNTY PROJECT 164402

S.P. 027-030-047

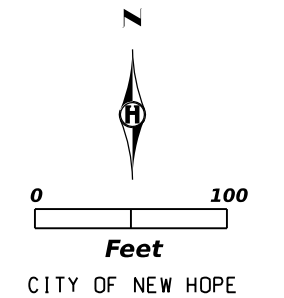
SHEET

98

104

SV-9-25 TO SV-9-26
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

CAC-9-P TO SV-9-26 (INPLACE)
 NO FIBER TERMINATION BOX
 REQUIRED AT CSAH 9 / CSAH 156



C.S.A.H. NO. 9



C.S.A.H. NO. 156

SV-9-26 (INPLACE)
 CONNECT TO INPLACE FIBER

SV-9-26 TO SV-9-27
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-9-27
 X: 501779.091
 Y: 188186.195

QUEBEC AVE N.

SV-9-27 TO SV-9-29
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

C.S.A.H. NO. 9



SV-9-27 TO SV-9-28
 1-1 1/4" NMC (HDPE)
 1-48 SM FIBER OPTIC CABLE
 1-1/C #12

SV-9-28
 X: 501777.475
 Y: 188087.911

C.S.A.H. NO. 156

CAC-9-0 TO SV-9-28
 1-1 1/4" NMC HDPE (CORE DRILL)
 1-48 SM FIBER OPTIC CABLE
 1-1/C #12

SEE SHEET 3 FOR
 GENERAL NOTES.



I HEREBY CERTIFY THAT THIS PLAN 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.

Ryan T. Allers

RYAN T. ALLERS, LICENSED PROFESSIONAL ENGINEER

45896 06/01/2020
 LICENSE NO. DATE

DESIGN BY: J WANNER
 CAD BY: J WANNER
 CHECKED BY: R ALLERS
 LAST REVISION: / /

CSAH 9 PLAN

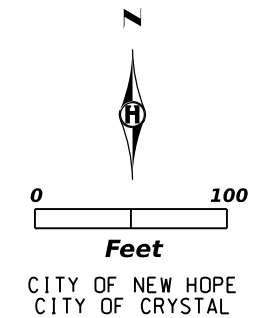
SHEET

2020 ATMS / HENNEPIN COUNTY PROJECT 164402

99

S.P. 027-030-047

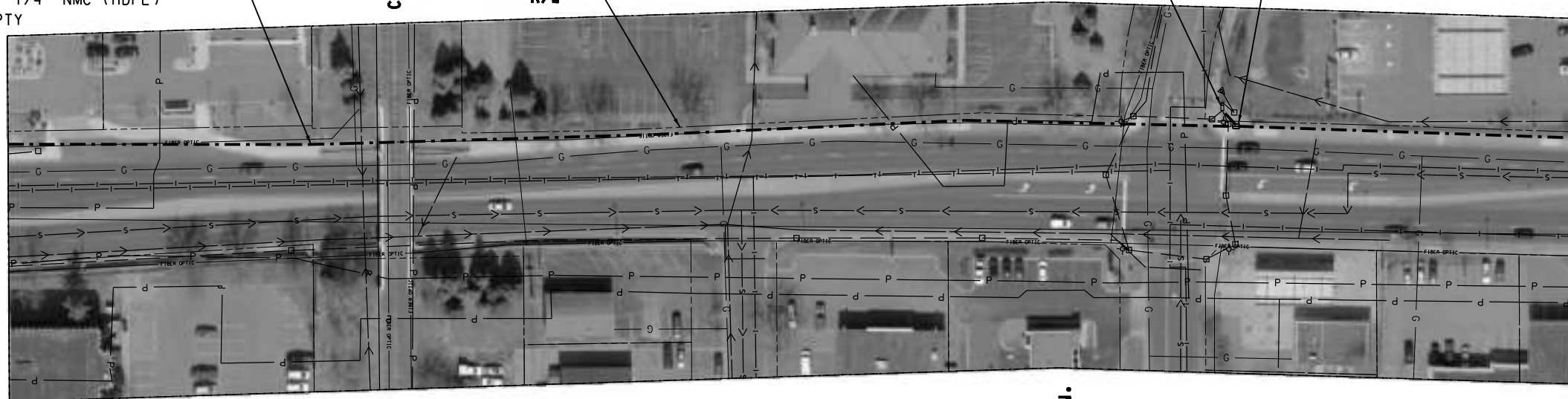
104



SV-9-27 TO SV-9-29
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

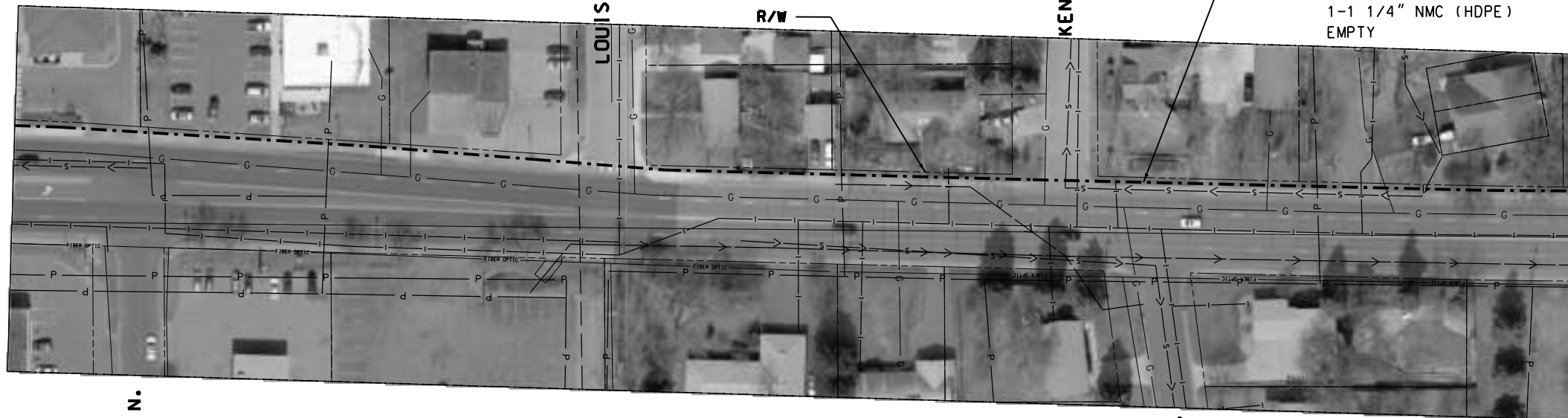
CAC-9-R TO SV-9-29
 1-1 1/4" NMC HDPE (CORE DRILL)
 1-48 SM FIBER OPTIC CABLE
 1-1/C #12

SV-9-29
 X: 502723.384
 Y: 188198.628



C.S.A.H. NO. 9

SV-9-29 TO SV-9-30
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY



C.S.A.H. NO. 9

SEE SHEET 3 FOR GENERAL NOTES.



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Ryan T. Allers
 RYAN T. ALLERS, LICENSED PROFESSIONAL ENGINEER

45896 06/01/2020
 LICENSE NO. DATE

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 CAD BY: J WANNER
 CHECKED BY: R ALLERS
 LAST REVISION: / /

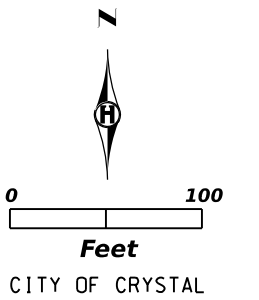
CSAH 9 PLAN
 2020 ATMS / HENNEPIN COUNTY PROJECT 164402
 S.P. 027-030-047

SHEET
 100
 104

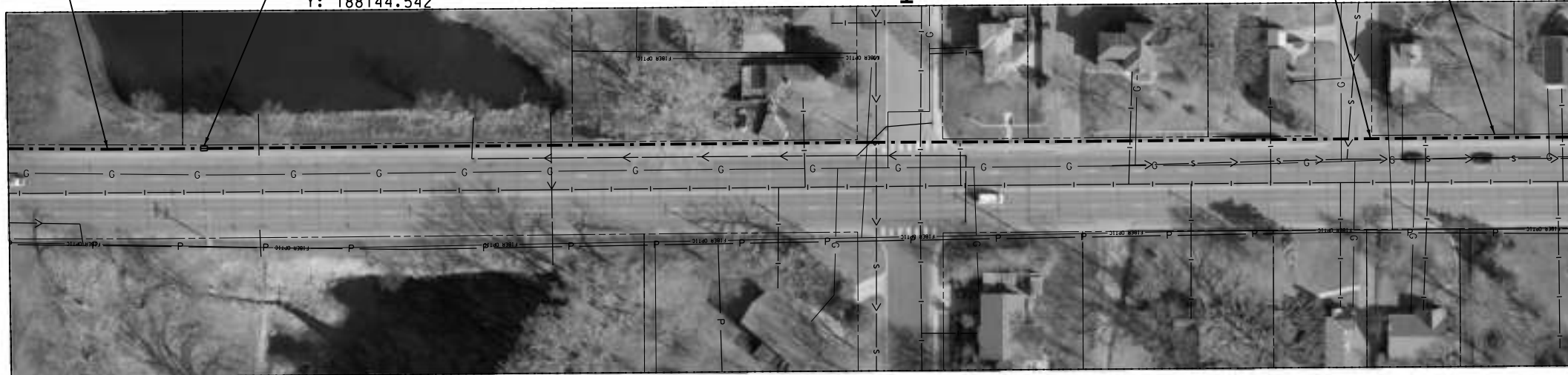
SV-9-29 TO SV-9-30
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-9-30
 X: 504200.116
 Y: 188144.542

SV-9-30 TO SV-9-31
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY



C.S.A.H. NO. 9



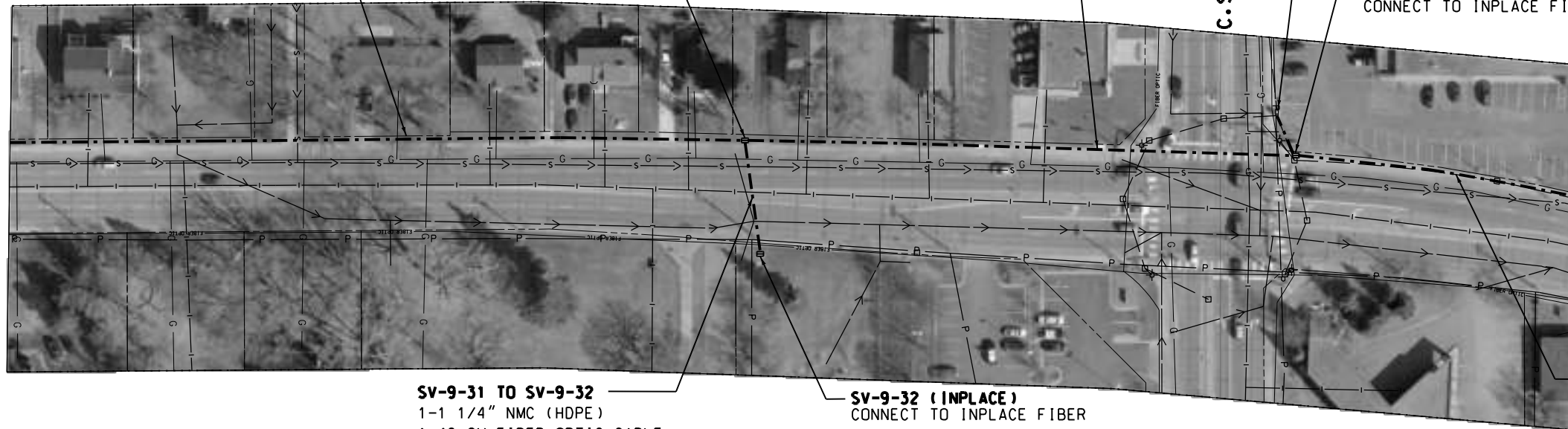
C.S.A.H. NO. 9

SV-9-31
 X: 504200.116
 Y: 188144.542

SV-9-31 TO SV-9-33
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

CAC-9-S TO SV-9-33 (INPLACE)
 NO FIBER TERMINATION BOX
 REQUIRED AT CSAH 9 / CSAH 102

SV-9-33 (INPLACE)
 CONNECT TO INPLACE FIBER



SV-9-31 TO SV-9-32
 1-1 1/4" NMC (HDPE)
 1-48 SM FIBER OPTIC CABLE
 1-1/C #12

SV-9-32 (INPLACE)
 CONNECT TO INPLACE FIBER

SV-9-33 TO SV-9-34
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SEE SHEET 3 FOR
 GENERAL NOTES.



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Ryan T. Allers
 RYAN T. ALLERS, LICENSED PROFESSIONAL ENGINEER

45896 06/01/2020
 LICENSE NO. DATE

DESIGN BY: J WANNER
 CAD BY: J WANNER
 CHECKED BY: R ALLERS
 LAST REVISION: / /

CSAH 9 PLAN		SHEET
2020 ATMS / HENNEPIN COUNTY PROJECT 164402		101
S.P. 027-030-047		104

SV-9-33 TO SV-9-34
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

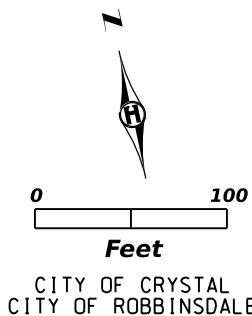
SV-9-34
 X: 507062.496
 Y: 187925.364

SV-9-34 TO SV-9-35
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-9-35
 X: 507048.706
 Y: 187866.855

CAC-9-T TO SV-9-35
 1-1 1/4" NMC HDPE (CORE DRILL)
 1-48 SM FIBER OPTIC CABLE
 1-1/C #12

SV-9-35 TO SV-9-36
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY



C.S.A.H. NO. 9

C.S.A.H. NO. 9

COLORADO AVE N.

BRUNSWICK AVE N.

ADAIR AVE N.

WELCOME AVE N.

ZANE AVE N.

R/W

YATES AVE N.

XENIA AVE N.

SEE SHEET 3 FOR
 GENERAL NOTES.



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Ryan T. Allers
 RYAN T. ALLERS, LICENSED PROFESSIONAL ENGINEER

45896 06/01/2020
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CSAH 9 PLAN

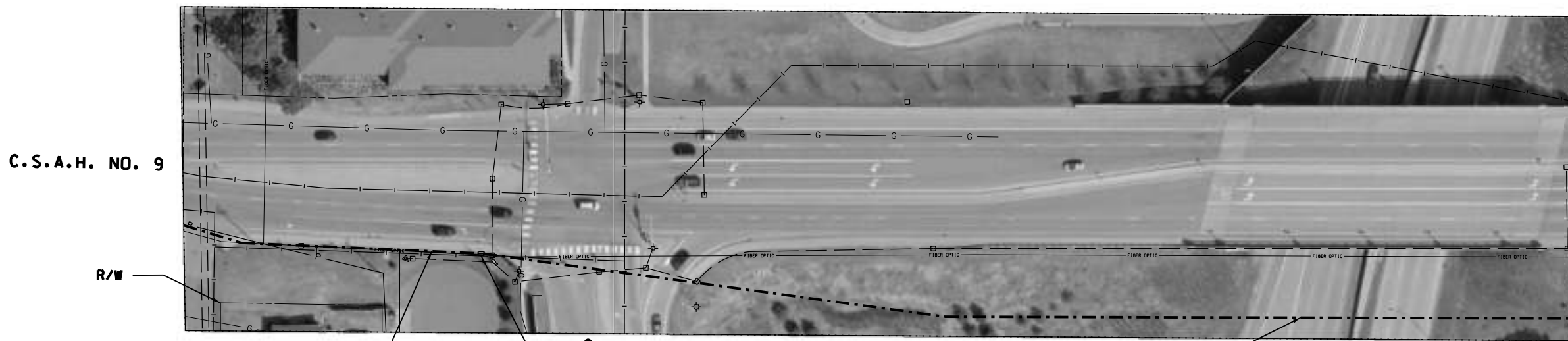
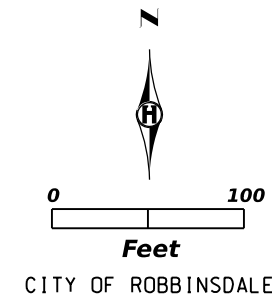
2020 ATMS / HENNEPIN COUNTY PROJECT 164402

S.P. 027-030-047

SHEET

102

104



SV-9-35 TO SV-9-36
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-9-36
 X: 508648.934
 Y: 187551.910

SV-9-36 TO SV-9-37
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-9-39 TO SV-9-40
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-9-39
 X: 510047.388
 Y: 187642.989



SV-9-37
 X: 509634.222
 Y: 187534.494

SV-9-37 TO SV-9-38
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

SV-9-38
 X: 510048.065
 Y: 187570.861

SV-9-38 TO SV-9-39
 1-1 1/4" NMC (HDPE)
 1-144 SM FIBER OPTIC CABLE
 1-1/C #12
 1-1 1/4" NMC (HDPE)
 EMPTY

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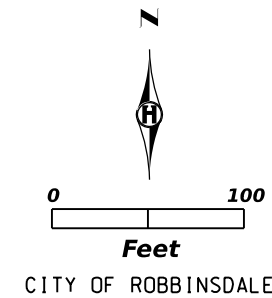
CSAH 9 PLAN

2020 ATMS / HENNEPIN COUNTY PROJECT 164402

S.P. 027-030-047

SHEET

103 / 104



SV-9-40
X: 510658.994
Y: 187640.066

SV-9-41
X: 510828.075
Y: 187637.325

CAC-9-U TO SV-9-42
1-1 1/4" NMC HDPE (CORE DRILL)
1-48 SM FIBER OPTIC CABLE
1-1/C #12

SV-9-42
X: 511236.181
Y: 187646.338

SV-9-43 TO SV-9-44 (INPLACE)
1-1 1/4" NMC (HDPE)
1-48 SM FIBER OPTIC CABLE
1-1/C #12

SV-9-43 (INPLACE)
(USE SAME SV THAT IS BEING USED FOR CSAH 81 CORRIDOR).

C.S.A.H. NO. 9

SV-9-40 TO SV-9-41
1-4" NMC (HDPE) (MIN 10 FEET DEEP)
1-1 1/4" NMC (HDPE)
1-144 SM FIBER OPTIC CABLE
1-1/C #12
1-1 1/4" NMC (HDPE)
EMPTY
1-4" NMC (HDPE) (MIN 10 FEET DEEP)
2-1 1/4" NMC (HDPE)
EMPTY

RAILROAD AVE N.

BNSF RAILROAD

SV-9-41 TO SV-9-42
1-1 1/4" NMC (HDPE)
1-144 SM FIBER OPTIC CABLE
1-1/C #12
1-1 1/4" NMC (HDPE)
EMPTY

HUBBARD AVE N.

SV-9-42 TO SV-9-43
1-1 1/4" NMC (HDPE)
1-144 SM FIBER OPTIC CABLE
1-1/C #12
1-1 1/4" NMC (HDPE)
EMPTY

CAC-9-V TO SV-9-44 (INPLACE)
NO FIBER TERMINATION BOX REQUIRED AT CSAH 9 / CSAH 81

SV-9-44 (INPLACE)
CONNECT TO INPLACE FIBER

R/W

C.S.A.H. NO. 9

LAKELAND AVE N.

LAKE AVE N.

C.S.A.H. 9 (END SEGMENT 4)
MILE PT. 7.68
STA. 405+50.40

SEE SHEET 3 FOR GENERAL NOTES.



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Ryan T. Allers
RYAN T. ALLERS, LICENSED PROFESSIONAL ENGINEER

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SHEET

104 / 104