

**CITY OF CANNON FALLS  
GOODHUE COUNTY, MINNESOTA**

**RESOLUTION NUMBER 2590**

**A RESOLUTION APPROVING MUNICIPAL CONSENT PROJECT  
NO. SAP 025-620-001, ALONG COUNTY STATE-AID HIGHWAY NO. 20**

WHEREAS, plans for Project No. SAP 025-620-001 showing proposed alignment, profiles grades and cross-sections for the construction, reconstruction or improvement of County State-Aid Highway No. 20 within the limits of the City of Cannon Falls as a State Aid Project have been prepared and presented to the City.

NOW, THEREFORE, BE IT RESOLVED: That said plans be in all things approved.

**ADOPTED BY THE CITY COUNCIL OF THE CITY OF CANNON FALLS ON THIS 16<sup>th</sup> DAY OF  
NOVEMBER, 2021.**

**SIGNED:**

\_\_\_\_\_  
John O. Althoff, Mayor

**ATTEST:**

\_\_\_\_\_  
Neil L. Jensen, City Administrator

**CERTIFICATION**

State of Minnesota  
County of Goodhue

I hereby certify that the foregoing Resolution is a true and correct copy of a resolution presented to and adopted by the City Council of Cannon Falls at a meeting therefor held in the City of Cannon Falls, Minnesota, on the 16<sup>th</sup> day of November, 2021, as disclosed by the records of said City in my possession.

\_\_\_\_\_  
Neil L. Jensen, City Administrator

(Seal)

MINNESOTA DEPARTMENT OF TRANSPORTATION  
**GOODHUE COUNTY**  
 C.S.A.H. 20

MN. PROJ NO.

**GOVERNING SPECIFICATIONS**

THE 2018 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS" FOR CONSTRUCTION SHALL GOVERN

CONSTRUCTION PLAN FOR BITUMINOUS MILLING, BITUMINOUS SURFACING & AGGREGATE SHOULDERING

LOCATED ON C.S.A.H. 20 BETWEEN 180ft North of Ash Court AND T.H. 19

STATE AID PROJECT NO. 025-620-001

|                   |      |      |       |       |
|-------------------|------|------|-------|-------|
| GROSS LENGTH      | 7065 | FEET | 1,338 | MILES |
| BRIDGES-LENGTH    | 18.3 | FEET | 0.004 | MILES |
| EXCEPTIONS-LENGTH | 0    | FEET | 0.000 | MILES |
| NET LENGTH        | 7065 | FEET | 1,338 | MILES |

Legal Description

FROM: A POINT 773ft NORTH AND 1510ft WEST OF THE NORTH QUARTER CORNER OF SECTION 30, T112N, R17W  
 TO: A POINT 3,480ft EAST OF THE EAST QUARTER CORNER OF SECTION 18, T112N, R18W

**INDEX**

1. TITLE SHEET
2. ESTIMATED QUANTITIES, STANDARD PLATES AND NOTES
3. TYPICAL SECTIONS
4. INTERMITTENT RUMBLE STRIP DETAIL
- 5 - 7. REMOVAL PLANS

THIS PLAN CONTAINS 7 SHEETS

DESIGN ENGINEER: 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.

SIGNATURE ..... JESS GREENWOOD - GOODHUE COUNTY DESIGN ENGINEER

DATE ..... LIC. NO. 49150

APPROVED GOODHUE COUNTY ENGINEER ..... DATE

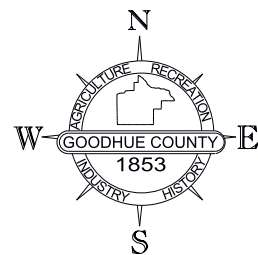
DISTRICT STATE AID ENGINEER: REVIEWED FOR COMPLIANCE WITH STATE-AID RULES/POLICIES ..... DATE

STATE AID ENGINEER: APPROVED FOR STATE AID AND FEDERAL AID FUNDING ..... DATE

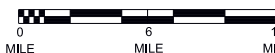
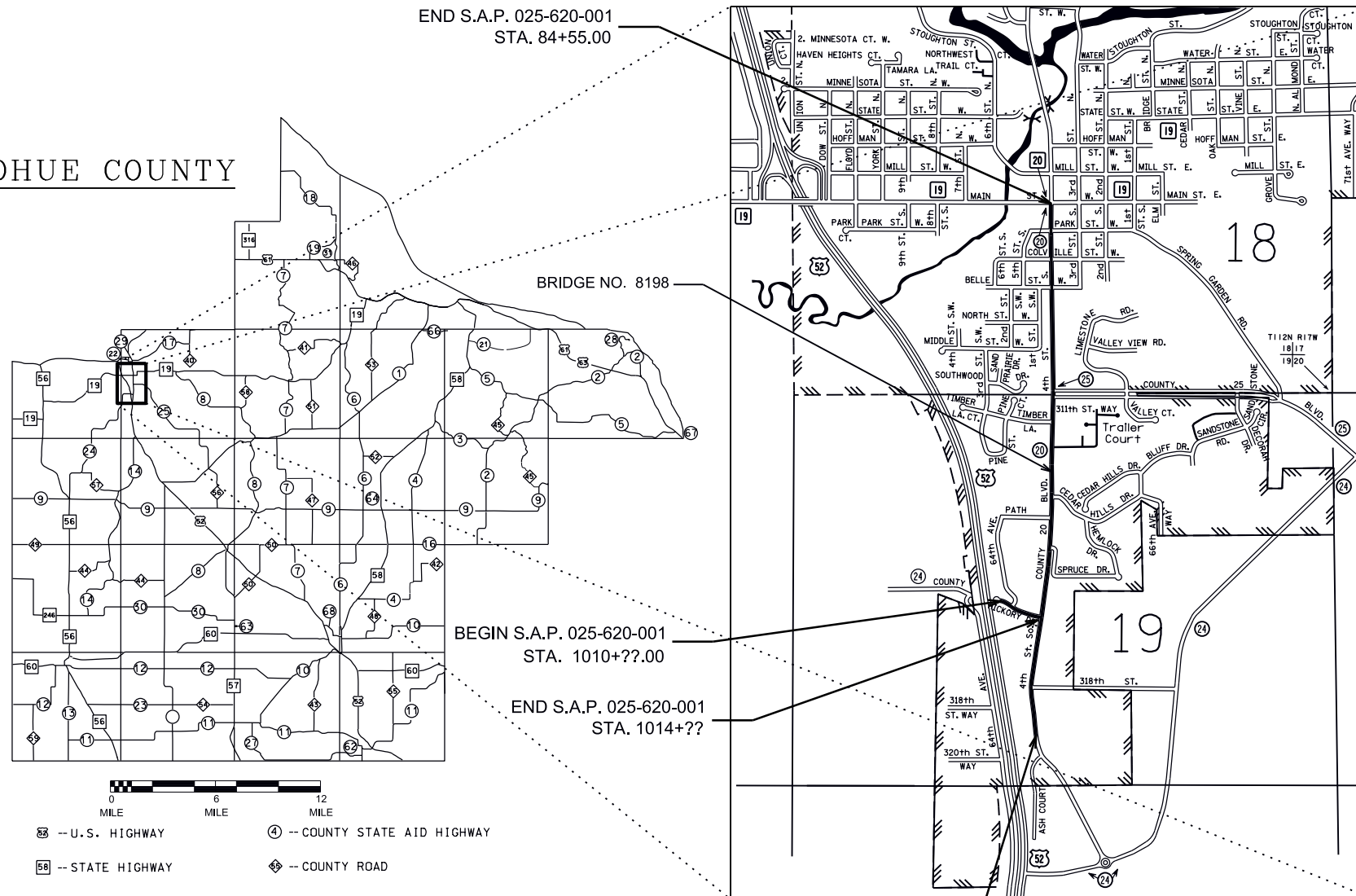
I HEREBY CERTIFY THAT THE FINAL FIELD REVISIONS, IF ANY, OF THIS PLAN WERE MADE BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE ..... LIC. NO. ....

S.A.P. NUMBER 025-620-001 (C.S.A.H. 20) SHEET NO. 1 OF 12 SHEETS



GOODHUE COUNTY



88 -- U.S. HIGHWAY      4 -- COUNTY STATE AID HIGHWAY  
 58 -- STATE HIGHWAY      4 -- COUNTY ROAD



| PLAN REVISIONS |           |             |
|----------------|-----------|-------------|
| DATE           | SHEET NO. | APPROVED BY |
|                |           |             |
|                |           |             |
|                |           |             |

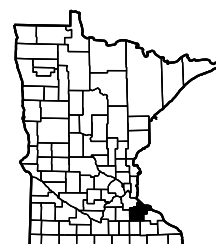
**DESIGN DESIGNATION**

**CSAH 20 STA. 13+90 - STA. 58+81**  
 B.O.P. TO CSAH 25

|                        |                                   |
|------------------------|-----------------------------------|
| FUNCTIONAL CLASS       | MAJOR COLLECTOR                   |
| SHOULDER WIDTH         | 6'                                |
| R-VALUE                | .17                               |
| ADT (CURRENT YEAR)     | 2022 = 6306                       |
| ADT (FUTURE YEAR)      | 2042 = 7063                       |
| D (DIRECTIONAL DISTR.) | = 50/50 %                         |
| T (HEAVY COMMERCIAL)   | = 5 %                             |
| TON DESIGN             | 10                                |
| Σ N18                  | 789,707 (20 YEAR FLEXIBLE DESIGN) |

**CSAH 20 STA. 58+81 - STA. 84+55**  
 CSAH 25 TO TH 19

|                        |                                   |
|------------------------|-----------------------------------|
| FUNCTIONAL CLASS       | MAJOR COLLECTOR                   |
| SHOULDER WIDTH         | 8'                                |
| R-VALUE                | .20                               |
| ADT (CURRENT YEAR)     | 2022 = 7222                       |
| ADT (FUTURE YEAR)      | 2042 = 8088                       |
| D (DIRECTIONAL DISTR.) | = 50/50 %                         |
| T (HEAVY COMMERCIAL)   | = 4 %                             |
| TON DESIGN             | 10                                |
| Σ N18                  | 904,342 (20 YEAR FLEXIBLE DESIGN) |



FOR PLANS AND UTILITIES SYMBOLS SEE TECHNICAL MANUAL

STATE PROJ. NO.      CHARGE IDENTIFIER

PROJECT LOCATION      SCALES

COUNTY : GOODHUE      PLAN      100'  
 DISTRICT : 6      PROFILE      100' HORIZ.      10' VERT.

BEGIN S.A.P. 025-620-001  
 STA. 13+90.00

10-NOV-2021 08:50

PLOTTED/REVISED:

P:\102-ROADS\20CSAH\2022 Paving\cover\_title.dgn MODEL sheet for pdf

PATH & FILENAME:

## ESTIMATED QUANTITIES

| NOTES | ITEM NO. | ITEM                                      | UNIT | MUNICIPAL STATE AID TOTAL QUANTITY |
|-------|----------|---|------|------------------------------------|
|       | 2021.501 | MOBILIZATION                              | LS   | 1                                  |
| 1     | 2221.502 | AGGREGATE SHOULDERING (LV)                | CY   | 543                                |
|       | 2232.501 | MILL BITUMINOUS SURFACE 2"                | SY   | 32857                              |
|       | 2357.502 | BITUMINOUS MATERIAL FOR TACK COAT         | GAL  | 3286                               |
| 2     | 2360.501 | TYPE SP 12.5 WEARING COURSE MIXTURE (4,C) | TON  | 3780                               |
|       | 2504.602 | ADJUST VALVE BOX                          | EA   | 8                                  |
|       | 2506.522 | ADJUST FRAME & RING CASTINGS              | EA   | 9                                  |
|       | 2563.601 | TRAFFIC CONTROL                           | LS   | 1                                  |
|       | 2582.502 | 6" SOLID LINE WHITE - PAINT               | LF   | 14678                              |
|       | 2582.502 | 4" SOLID LINE YELLOW - PAINT              | LF   | 6447                               |
|       |          |   |      |                                    |
|       |          |   |      |                                    |

## STANDARD PLATES

THE FOLLOWING STANDARD PLATES, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY

| PLATE NO. | DESCRIPTION                                 |
|-----------|---|
| 4108F     | ADJUSTING RINGS FOR CATCH BASINS & MANHOLES |
| 80001     | STANDARD BARRICADES                         |
| 9000D     | APPROACHES AND ENTRANCES                    |

### NOTES:

1. THIS QUANTITY ASSUMES EXISTING SHOULDERS ARE 2" LOW PRIOR TO THIS PROPOSED CONSTRUCTION. THE SPECIAL PROVISIONS AFFORDS THE CONTRACTOR THE OPTION OF PROVIDING EITHER CLASS 1 OR CLASS 5 AGGREGATE SHOULDERING MATERIAL. SEE SPECIAL PROVISIONS FOR DETAILS.
2. THIS QUANTITY INCLUDES 102 TONS FOR APPROACHES TO BE PLACED IN CONJUNCTION WITH MAINLINE PAVING.

### BASIS FOR ESTIMATED QUANTITIES:

BITUMINOUS MATERIAL FOR TACK COAT      .10 GAL / SQ. YD.  
 WEARING COURSE MIXTURE                      110LB / SQ.YD. / IN

I HEREBY CERTIFY THAT THIS PLAN SHEET 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.

DATE \_\_\_\_\_ LIC. NO. \_\_\_\_\_ ENGINEER 49150

GOODHUE COUNTY  
DEPARTMENT OF PUBLIC WORKS

ESTIMATED QUANTITIES

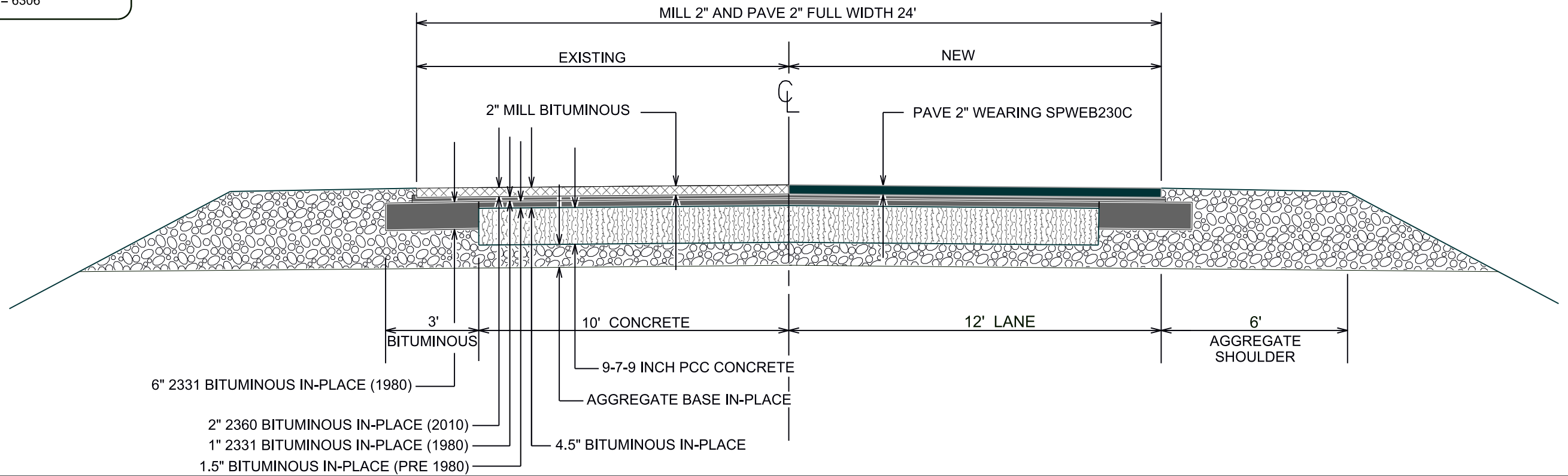
S.A.P. NUMBER 025-604-001

PLOTTED/REVISED: 10-NOV-2021 08:50

PATH & FILENAME: P:\CO\_ROADS\20CSAH\2022 Paving\Typ Section.dgn MODEL TYP\_SECTIONS

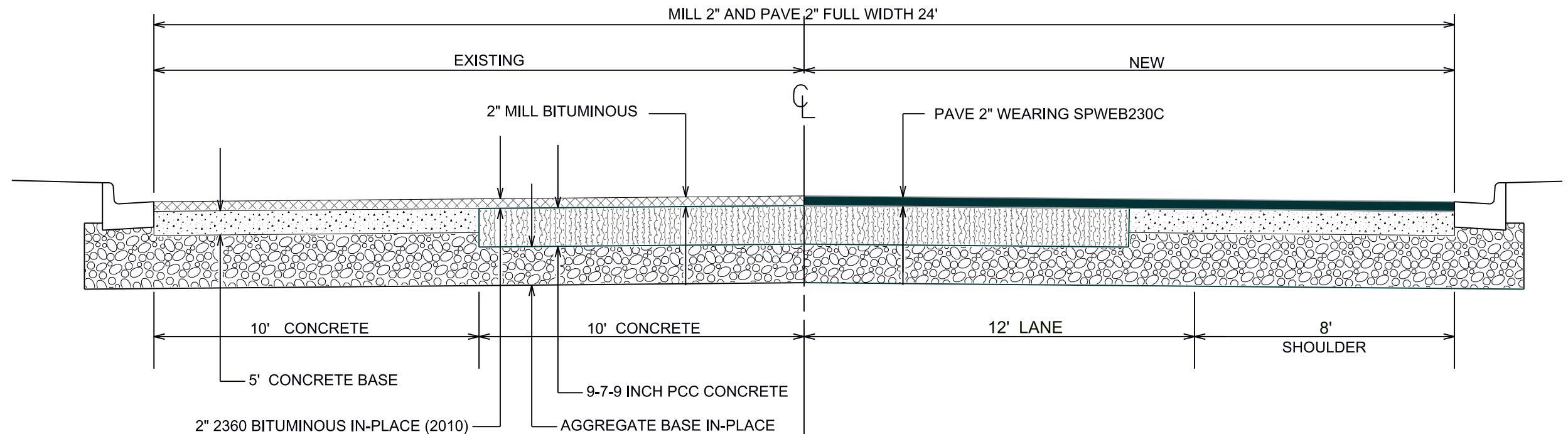
Sta. 13+90 to Sta 53+84  
No Gravel Equivalent Need Due To Existing Concrete Pavement  
Project year ADT = 6306

TYPICAL SECTION CSAH 20 Sta. 13+90 to Sta. 53+84  
(FROM 180' NORTH OF ASH COURT TO APPROXIMATELY 500' NORTH OF THE INTERSEICION WITH CSAH 25)



Sta. 53+84 to Sta 70+77  
No Gravel Equivalent Need Due To Existing Concrete Pavement  
Project year ADT = 7222

TYPICAL SECTION CSAH 20 Sta. 53+84 to Sta. 70+77  
(FROM APPROXIMATELY 500' NORTH OF THE INTERSEICION WITH CSAH 25 TO PARK STREET)



NO SCALE

I HEREBY CERTIFY THAT THIS PLAN SHEET 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.

DATE \_\_\_\_\_ LIC. NO. 49150 ENGINEER \_\_\_\_\_

GOODHUE COUNTY  
DEPARTMENT OF PUBLIC WORKS

TYPICAL SECTIONS

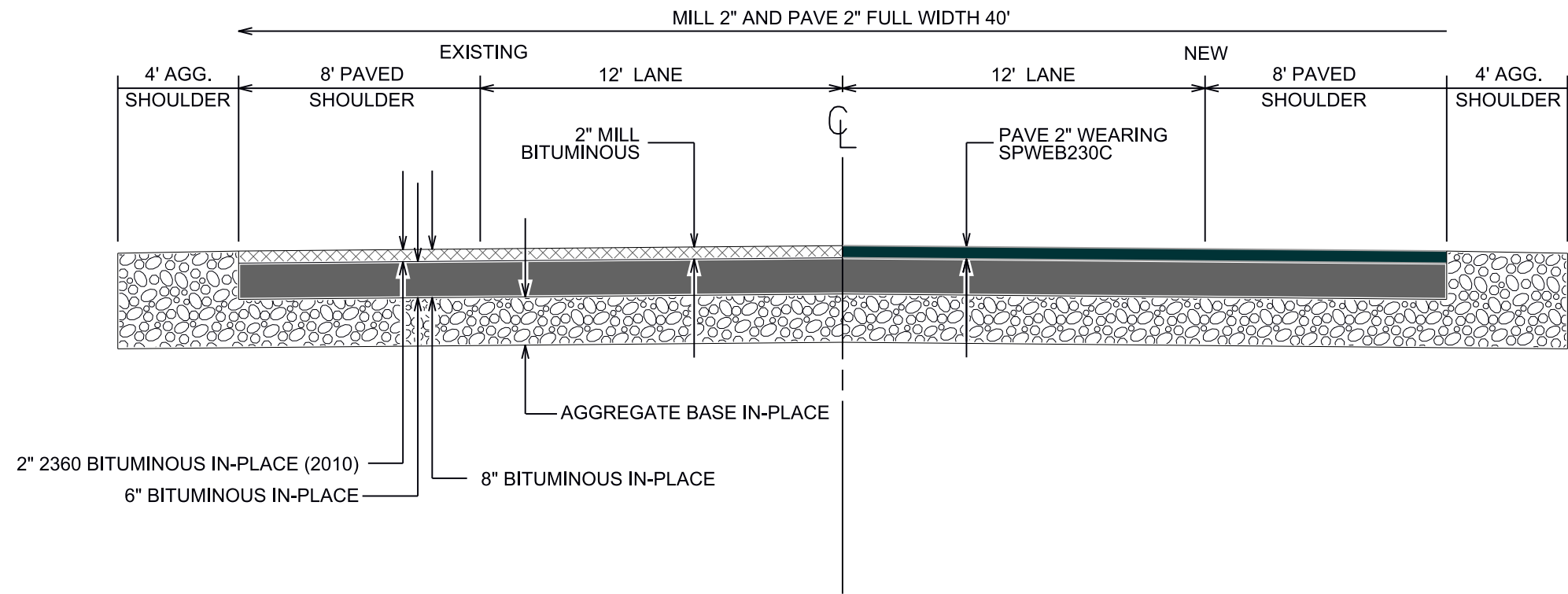
S.A.P. 025-629-002 (C.S.A.H 29)

SHEET NO. 3 OF 12 SHEETS

TYPICAL SECTION HICORY STREET (OLD CSAH 24) Sta. ?+00 to Sta. ?+00

(FROM CUL-DE-SAC TO CSAH 20 )

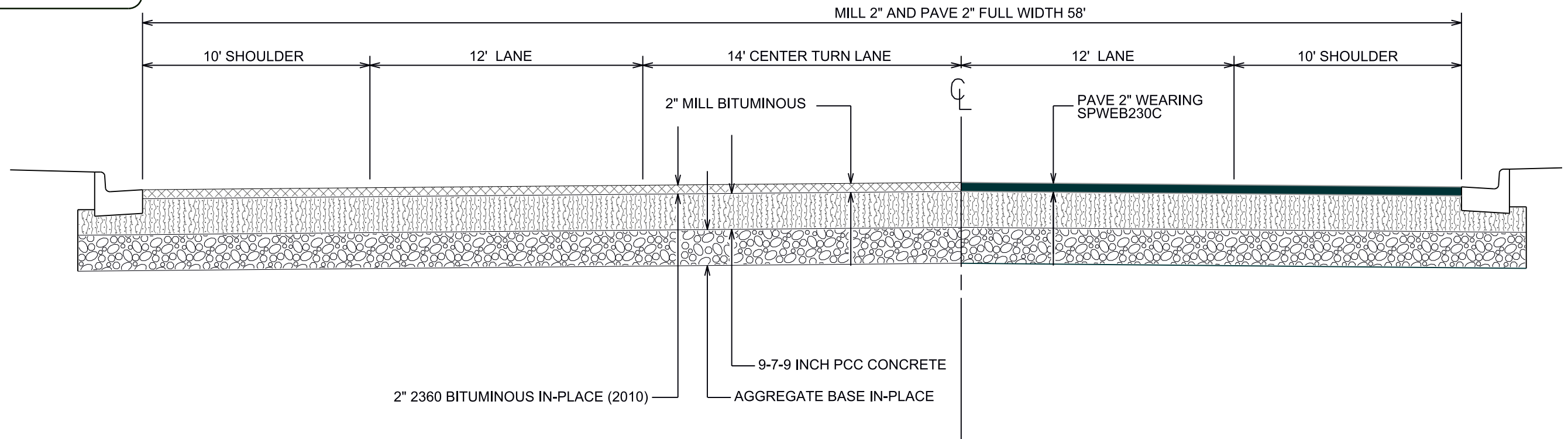
Sta. 70+77 to Sta 74+55  
 No Gravel Equivalent Need Due To Existing Concrete Pavement  
 Project year ADT = 7222



TYPICAL SECTION CSAH 20 Sta. 70+77 to Sta. 74+55

(FROM PARK STREET TO T.H. 19 )

Sta. 70+77 to Sta 74+55  
 No Gravel Equivalent Need Due To Existing Concrete Pavement  
 Project year ADT = 7222



PLOTTED/REVISED: 10-NOV-2021 08:50  
 PATH & FILENAME: P:\CO.ROADS\20CSAH\2022 Paving\Typ Section.dgn MODEL TYP2-SECTIONS

NO SCALE

I HEREBY CERTIFY THAT THIS PLAN SHEET 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.

DATE \_\_\_\_\_ 49150 ENGINEER \_\_\_\_\_

GOODHUE COUNTY  
 DEPARTMENT OF PUBLIC WORKS

TYPICAL SECTIONS

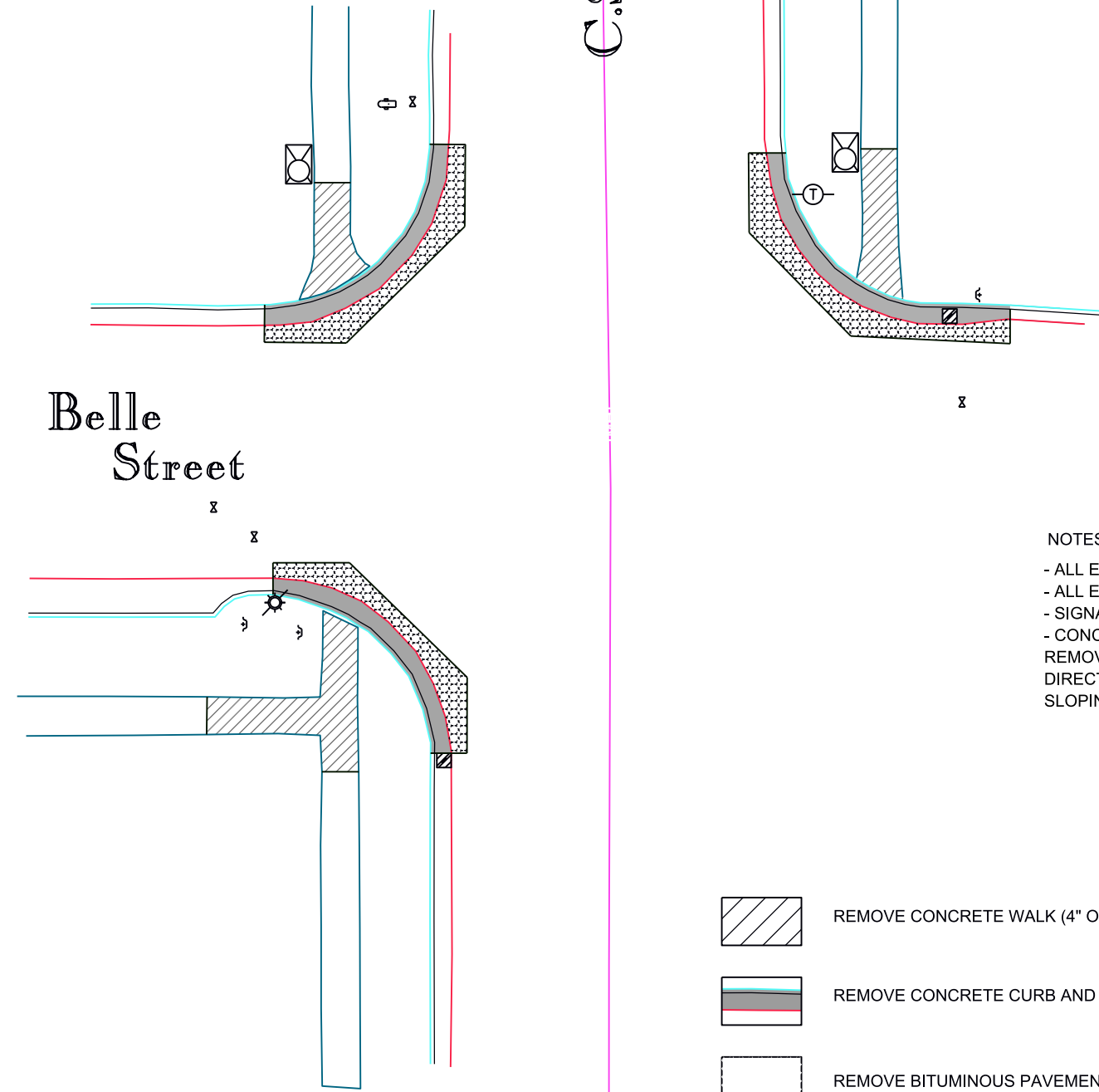
S.A.P. 025-629-002 (C.S.A.H 29)

SHEET NO. 4 OF 12 SHEETS



Removal Plan  
Intersection Belle Street and CSAH 20

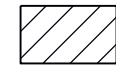
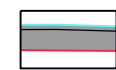

C.S.A.H. 20

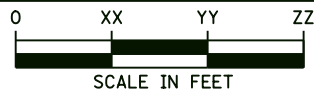


Belle Street

NOTES:

- ALL EXISTING SIGNING TO REMAIN INPLACE, UNLESS OTHERWISE NOTE.
- ALL EXISTING STRIPING TO REMAIN INPLACE EXCEPT AS OTHERWISE SHOWN.
- SIGNAL BASES AND POLES TO REMAIN INPLACE.
- CONCRETE/BITUMINOUS PAVEMENT, WALKS, AND CURB/GUTTER NOT SHOWN FOR REMOVAL SHALL BE PROTECTED FROM DAMAGE. EXTRA REMOVALS MAY BE DIRECTED BY THE ENGINEER IN THE FIELD AS NECESSARY TO PROVIDE ADEQUATE SLOPING FOR ADA REQUIREMENTS.

-  REMOVE CONCRETE WALK (4" OR 6" DEPTH)
-  REMOVE CONCRETE CURB AND GUTTER
-  REMOVE BITUMINOUS PAVEMENT



I HEREBY CERTIFY THAT THIS PLAN SHEET 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.

DATE \_\_\_\_\_ LIC. NO. 21765 ENGINEER \_\_\_\_\_

GOODHUE COUNTY  
DEPARTMENT OF PUBLIC WORKS

Removal Plan Intersection Belle Street and CSAH 20

S.A.P. NUMBER 025-620-001

SHEET NO. 5 OF 12 SHEETS

PLOTTED/REVISED: 10-NOV-2021 08:50

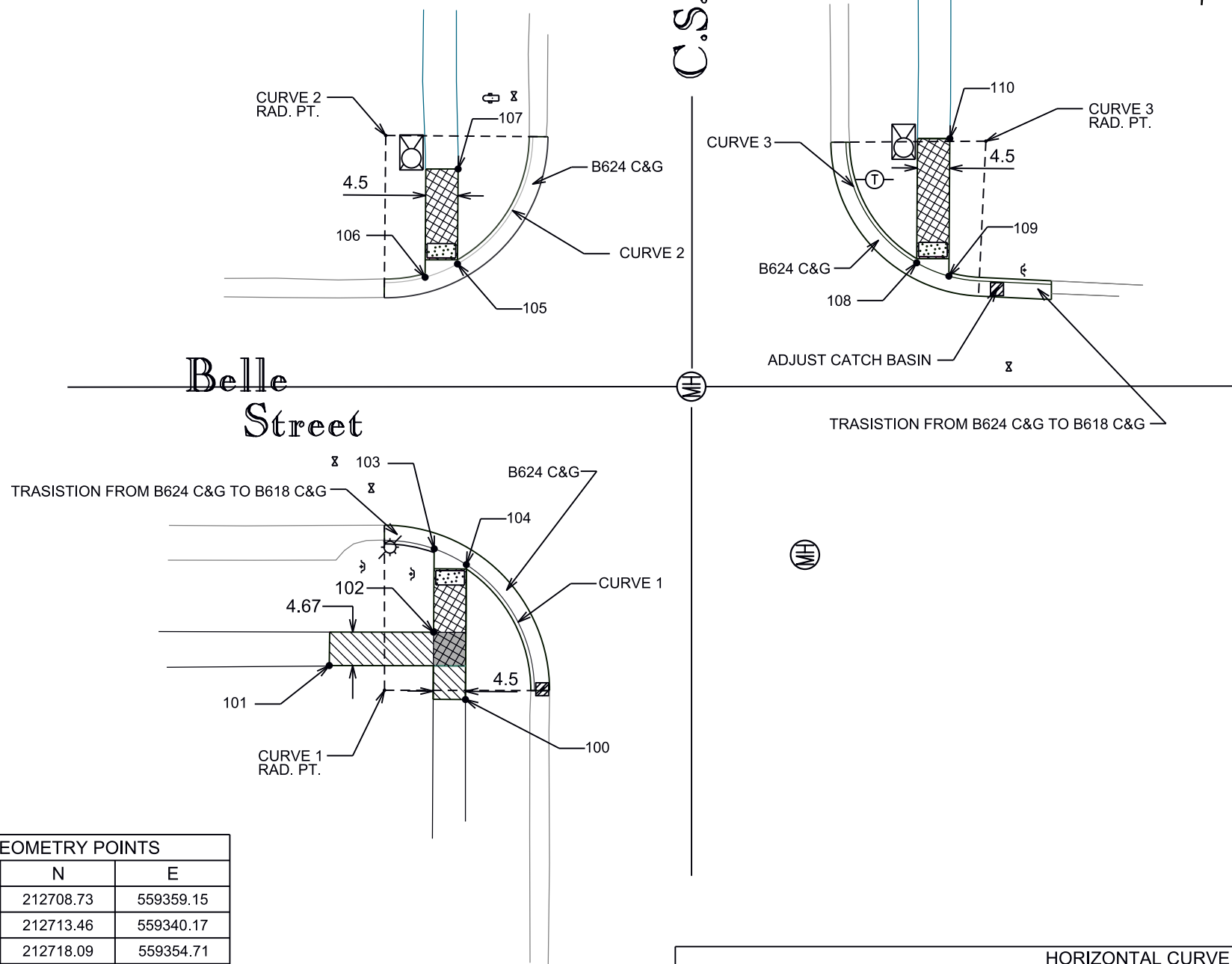
PATH & FILENAME: P:\CO\_ROADS\20CSAH\2022 Paving\Ped Ramp Layout.dgn MODEL Belle Street

| GEOMETRY POINTS |           |           |
|-----------------|-----------|-----------|
| POINT           | N         | E         |
| 105             | 212769.42 | 559358.05 |
| 106             | 212767.57 | 559353.53 |
| 107             | 212782.66 | 559358.13 |
|                 |           |           |
|                 |           |           |

\*ELEVATIONS TO BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION

| GEOMETRY POINTS |           |           |
|-----------------|-----------|-----------|
| POINT           | N         | E         |
| 108             | 212769.58 | 559422.05 |
| 109             | 212767.73 | 559426.53 |
| 110             | 212786.89 | 559426.67 |
|                 |           |           |
|                 |           |           |

\*ELEVATIONS TO BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION

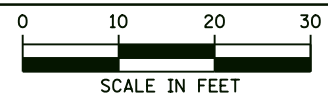


| LEGEND 4" CONCRETE WALK |   |
|-------------------------|---|
|                         | 4" CONCRETE WALK  |
|                         | 6" CONCRETE WALK  |
|                         | CONSTRUCT CONCRETE CURB & GUTTER  |
|                         | TRUNCATED DOMES (SEE STANDARD PLATE 7038)   |
|                         | CONTROL POINTS AT GUTTER FLOW LINE  |
|                         | CURB HEIGHT   |
|                         | LANDING AREA - 4' X 4' MIN. DIMENSIONS AND MAX 2.0% SLOPE IN ALL DIRECTIONS   |
|                         | INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0% |
|                         | INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE GREATER THAN 2.0% AND LESS THAN 5.0% IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%  |
|                         | DRAINAGE FLOW ARROW   |

| GEOMETRY POINTS |           |           |
|-----------------|-----------|-----------|
| POINT           | N         | E         |
| 100             | 212708.73 | 559359.15 |
| 101             | 212713.46 | 559340.17 |
| 102             | 212718.09 | 559354.71 |
| 103             | 212729.74 | 559354.79 |
| 104             | 212727.53 | 559359.28 |

\*ELEVATIONS TO BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION

| HORIZONTAL CURVE INFORMATION |           |           |        |           |           |        |                     |              |           |
|------------------------------|-----------|-----------|--------|-----------|-----------|--------|---------------------|--------------|-----------|
| CURVE                        | START     |           |        | END       |           |        | RADIUS TO CURB FACE | RADIUS POINT |           |
|                              | N         | E         | Elev.  | N         | E         | Elev.  |                     | N            | E         |
| 1                            | 212709.98 | 559368.76 | 861.35 | 212708.73 | 559347.86 | 861.33 | 20.89               | 212710.02    | 559347.87 |
| 2                            | 212713.46 | 212766.82 | 860.17 | 212787.16 | 559368.54 | 858.85 | 20.50               | 212787.32    | 559348.04 |
| 3                            | 212786.37 | 559412.19 | 859.88 | 212766.57 | 559440.82 | 861.32 | 19.50               | 212786.53    | 559431.69 |



I HEREBY CERTIFY THAT THIS PLAN SHEET 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.  
 DATE \_\_\_\_\_ LIC. NO. 21765 ENGINEER \_\_\_\_\_

GOODHUE COUNTY  
 DEPARTMENT OF PUBLIC WORKS

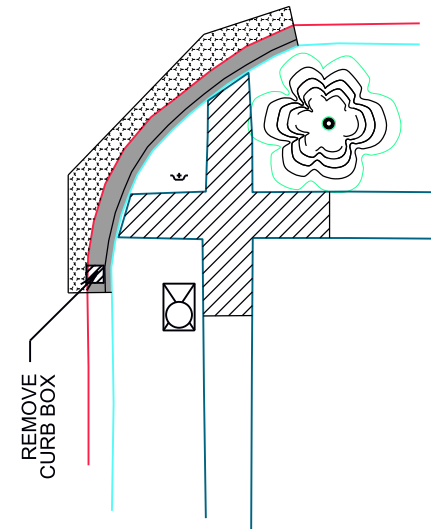
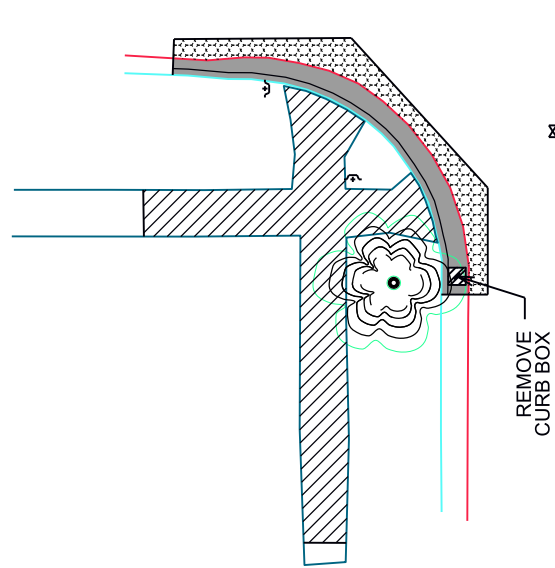
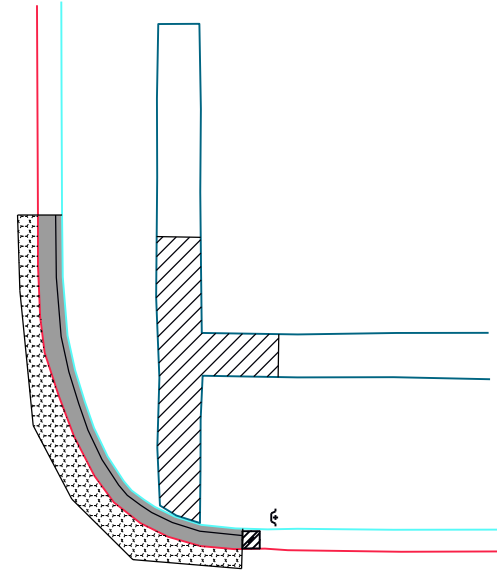
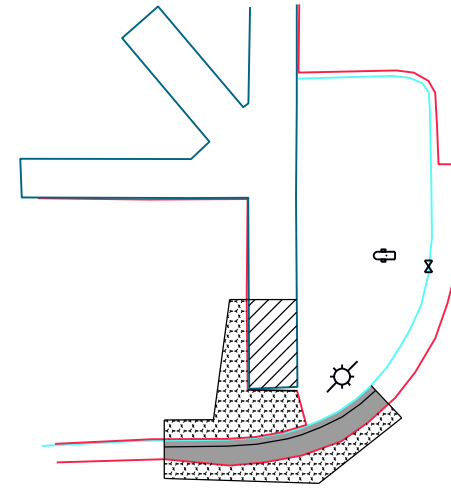
Construction Plan Intersection Belle Street and CSAH 20  
 S.A.P. NUMBER 025-620-001 SHEET NO. 6 OF 12 SHEETS

Removal Plan  
Intersection Covvill Street and CSAH 20

PATH & FILENAME: P:\CO\_ROADS\20CSAH\2022 Paving\Ped Ramp Layout.dgn MODEL Covvill Street West Removal PLOTTED/REVISED: 10-NOV-2021 08:50

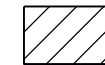
Covvill Street West

C.S.A.H. 20



NOTES:

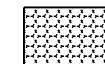
- ALL EXISTING SIGNING TO REMAIN INPLACE, UNLESS OTHERWISE NOTE.
- ALL EXISTING STRIPING TO REMAIN INPLACE EXCEPT AS OTHERWISE SHOWN.
- SIGNAL BASES AND POLES TO REMAIN INPLACE.
- CONCRETE/BITUMINOUS PAVEMENT, WALKS, AND CURB/GUTTER NOT SHOWN FOR REMOVAL SHALL BE PROTECTED FROM DAMAGE. EXTRA REMOVALS MAY BE DIRECTED BY THE ENGINEER IN THE FIELD AS NECESSARY TO PROVIDE ADEQUATE SLOPING FOR ADA REQUIREMENTS.



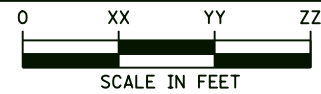
REMOVE CONCRETE WALK (4" OR 6" DEPTH)



REMOVE CONCRETE CURB AND GUTTER



REMOVE BITUMINOUS PAVEMENT



I HEREBY CERTIFY THAT THIS PLAN SHEET 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.  
DATE \_\_\_\_\_ LIC. NO. 21765 ENGINEER \_\_\_\_\_

GOODHUE COUNTY  
DEPARTMENT OF PUBLIC WORKS

Removal Plan Intersection Covvill Street and CSAH 20  
S.A.P. NUMBER 025-620-001

SHEET NO. 7 OF 12 SHEETS



Intersection Covvill Street and CSAH 20

213144.88 559425.46

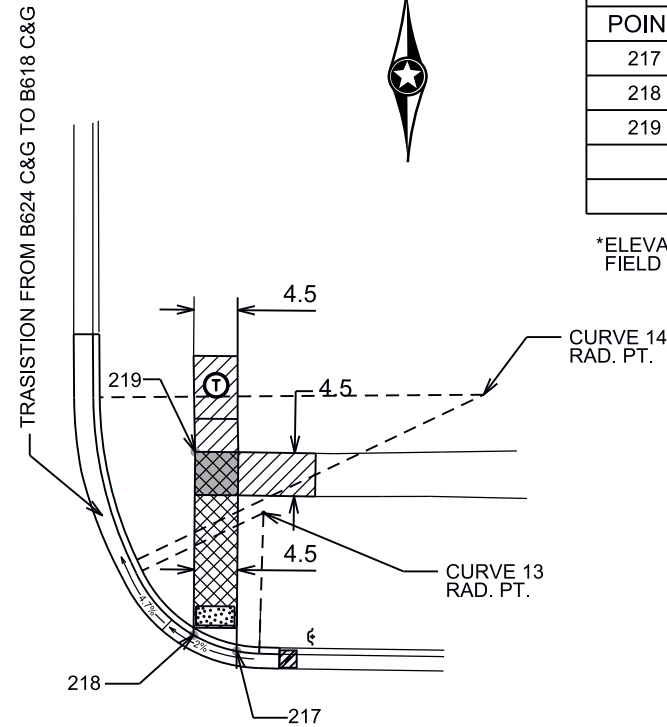
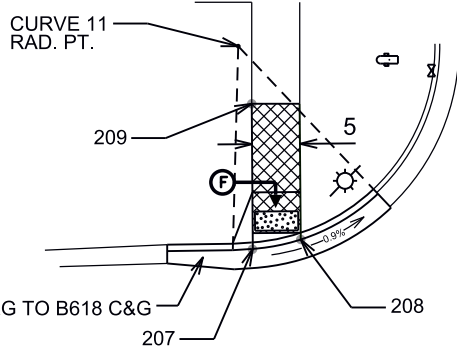
| GEOMETRY POINTS |           |           |
|-----------------|-----------|-----------|
| POINT           | N         | E         |
| 207             | 213148.45 | 559347.64 |
| 208             | 213149.43 | 559352.63 |
| 209             | 213163.57 | 559347.52 |
|                 |           |           |

\*ELEVATIONS TO BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION

| GEOMETRY POINTS |           |           |
|-----------------|-----------|-----------|
| POINT           | N         | E         |
| 217             | 213144.88 | 559425.46 |
| 218             | 213146.55 | 559420.97 |
| 219             | 213165.65 | 559421.14 |
|                 |           |           |

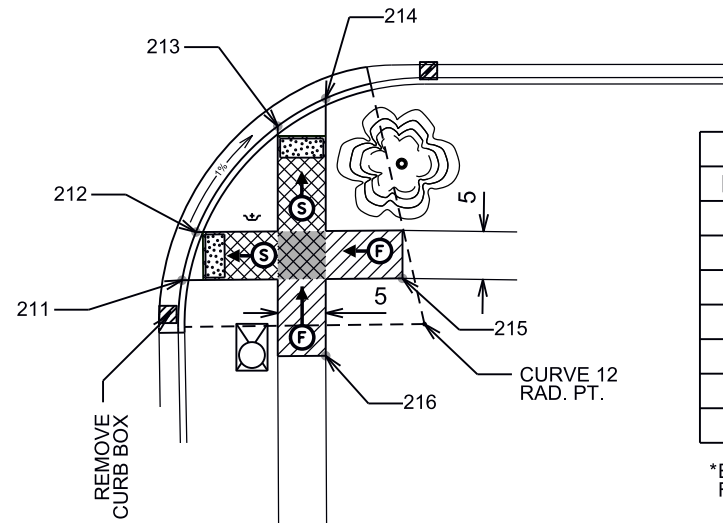
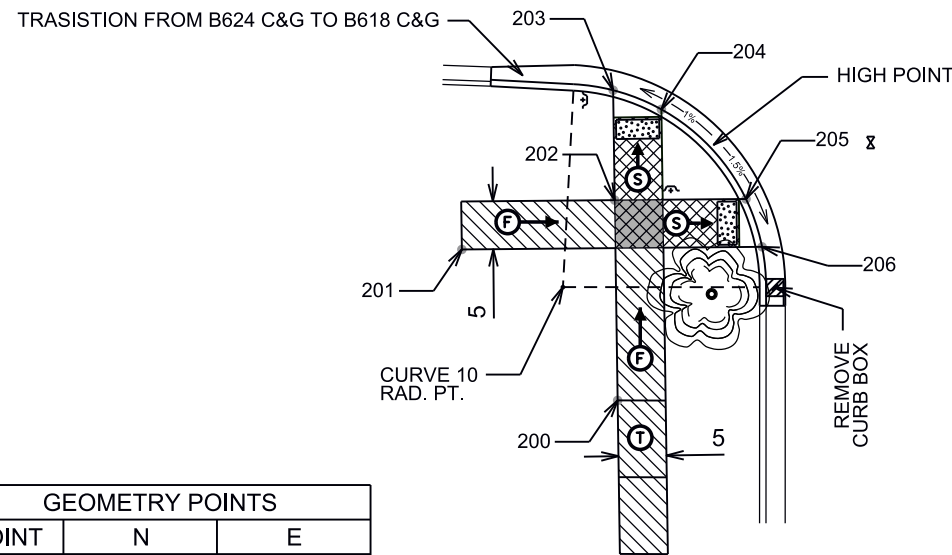
\*ELEVATIONS TO BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION

| LEGEND 4" CONCRETE WALK |   |
|-------------------------|---|
|                         | 4" CONCRETE WALK  |
|                         | 6" CONCRETE WALK  |
|                         | CONSTRUCT CONCRETE CURB & GUTTER  |
|                         | TRUNCATED DOMES (SEE STANDARD PLATE 7038)   |
|                         | CONTROL POINTS AT GUTTER FLOW LINE  |
|                         | CURB HEIGHT   |
|                         | LANDING AREA - 4' X 4' MIN. DIMENSIONS AND MAX 2.0% SLOPE IN ALL DIRECTIONS   |
|                         | INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0% |
|                         | INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE GREATER THAN 2.0% AND LESS THAN 5.0% IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%  |
|                         | DRAINAGE FLOW ARROW   |



Covvill Street West

C.S.A.H. 20



| GEOMETRY POINTS |           |           |
|-----------------|-----------|-----------|
| POINT           | N         | E         |
| 211             | 213091.74 | 559411.23 |
| 212             | 213096.75 | 559412.67 |
| 213             | 213107.79 | 559421.20 |
| 214             | 213110.68 | 559426.20 |
| 215             | 213091.92 | 559434.20 |
| 216             | 213083.86 | 559426.20 |
|                 |           |           |

\*ELEVATIONS TO BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION

| GEOMETRY POINTS |           |           |
|-----------------|-----------|-----------|
| POINT           | N         | E         |
| 200             | 213076.18 | 559352.21 |
| 201             | 213091.91 | 559335.98 |
| 202             | 213097.05 | 559351.90 |
| 203             | 213108.51 | 559351.74 |
| 204             | 213106.50 | 559356.77 |
| 205             | 213097.17 | 559365.58 |
| 206             | 213092.19 | 559367.26 |
|                 |           |           |

\*ELEVATIONS TO BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION

| HORIZONTAL CURVE INFORMATION |           |           |        |           |           |        |               |              |           |
|------------------------------|-----------|-----------|--------|-----------|-----------|--------|---------------|--------------|-----------|
| CURVE                        | START     |           |        | END       |           |        | RADIUS TO TBC | RADIUS POINT |           |
|                              | N         | E         | Elev.  | N         | E         | Elev.  |               | N            | E         |
| 10                           | 213108.46 | 559347.60 | 850.95 | 213087.98 | 559367.01 | 850.88 | 20.50         | 213087.99    | 559346.51 |
| 11                           | 213148.45 | 559347.53 | 850.40 | 213154.19 | 559360.67 | 850.21 | 20.50         | 213169.57    | 559346.12 |
| 12                           | 213086.86 | 559411.49 | 852.12 | 213111.56 | 559431.02 | 851.90 | 25.00         | 213087.17    | 559436.49 |
| 13                           | 213144.62 | 559427.81 | 851.73 | 213152.98 | 559415.01 | 851.22 | 14.00         | 213159.28    | 559428.26 |
| 14                           | 213154.11 | 559415.01 | 851.16 | 213171.28 | 559410.52 | 851.33 | 40.00         | 213171.60    | 559451.19 |

ELEVATIONS ARE TO FLOW LINE

PLOTTED/REVISED: 10-NOV-2021 08:50

PATH & FILENAME: P:\CO\_ROADS\20CSAH\2022 Paving\Ped Ramp Layout.dgn MODEL Covvill Street West



I HEREBY CERTIFY THAT THIS PLAN SHEET 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.  
 DATE \_\_\_\_\_ LIC. NO. 21765 ENGINEER \_\_\_\_\_

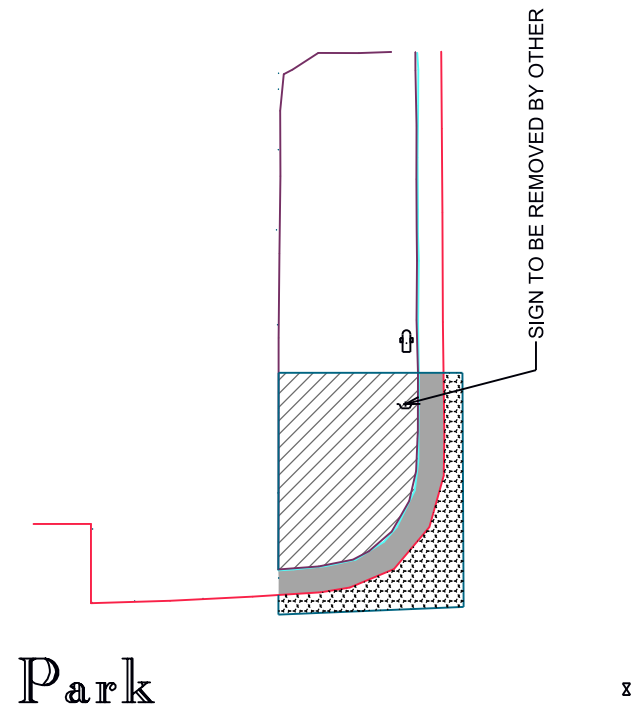
GOODHUE COUNTY  
 DEPARTMENT OF PUBLIC WORKS

ADA layout Intersection Belle Street and CSAH 20  
 S.A.P. NUMBER 025-620-001

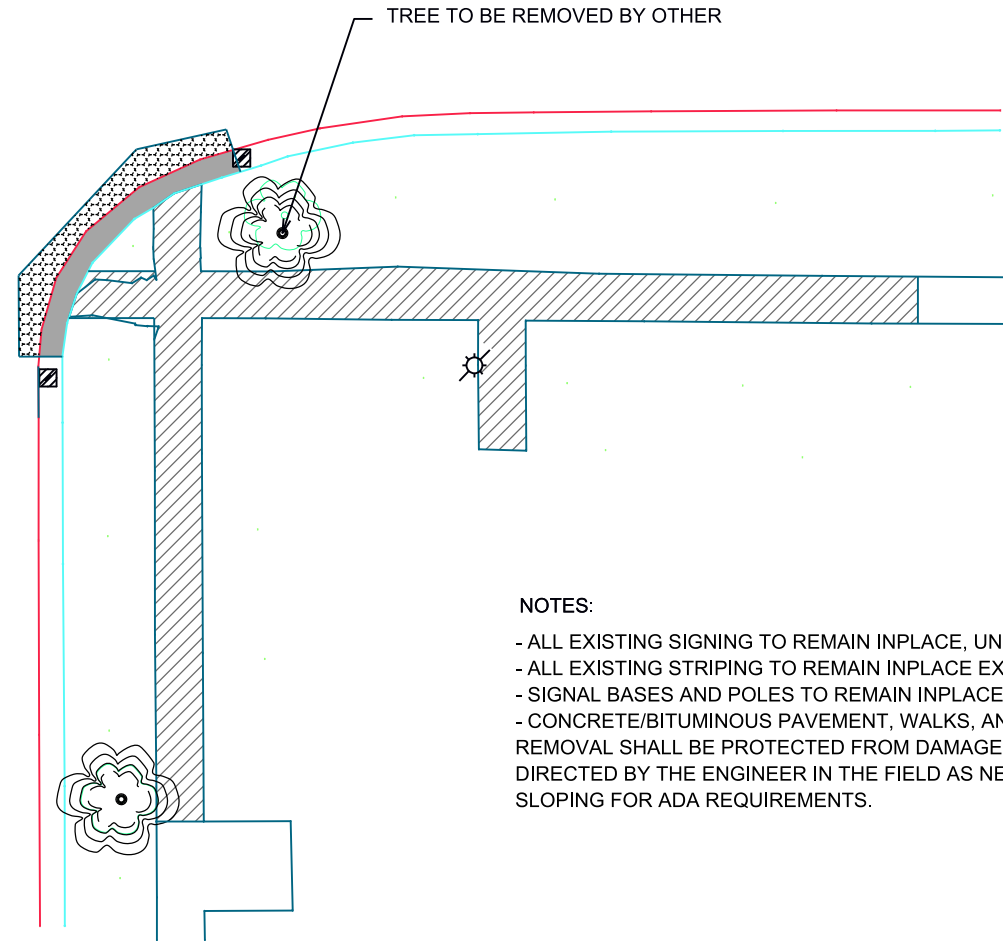
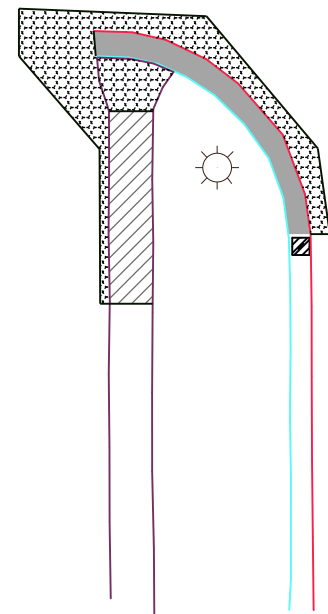
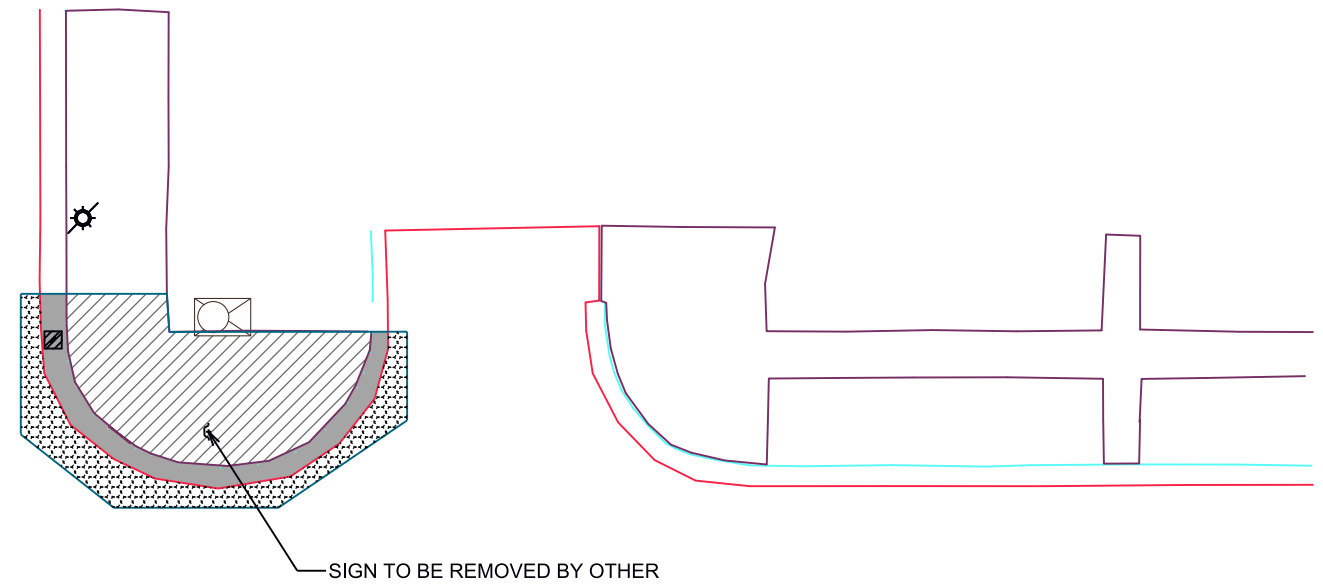
SHEET NO. 8 OF 12 SHEETS




Removal Plan  
Intersection Park Street and CSAH 20

C.S.A.H. 20  
4TH ST. SOUTH



Park  
Street



-  REMOVE CONCRETE WALK (4" OR 6" DEPTH)
-  REMOVE CONCRETE CURB AND GUTTER
-  REMOVE BITUMINOUS PAVEMENT

- NOTES:
- ALL EXISTING SIGNING TO REMAIN INPLACE, UNLESS OTHERWISE NOTE.
  - ALL EXISTING STRIPING TO REMAIN INPLACE EXCEPT AS OTHERWISE SHOWN.
  - SIGNAL BASES AND POLES TO REMAIN INPLACE.
  - CONCRETE/BITUMINOUS PAVEMENT, WALKS, AND CURB/GUTTER NOT SHOWN FOR REMOVAL SHALL BE PROTECTED FROM DAMAGE. EXTRA REMOVALS MAY BE DIRECTED BY THE ENGINEER IN THE FIELD AS NECESSARY TO PROVIDE ADEQUATE SLOPING FOR ADA REQUIREMENTS.



I HEREBY CERTIFY THAT THIS PLAN SHEET 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.

DATE \_\_\_\_\_ LIC. NO. 21765 ENGINEER \_\_\_\_\_

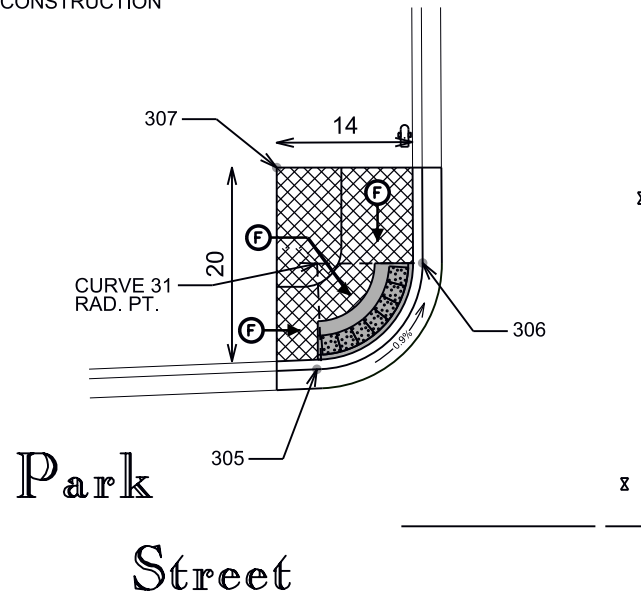
GOODHUE COUNTY  
DEPARTMENT OF PUBLIC WORKS

Removal Plan Intersection Park Street and CSAH 20  
S.A.P. NUMBER 025-620-001 OF 12 SHEETS

X=559342.9584  
Y=213529.6636

| GEOMETRY POINTS |           |           |
|-----------------|-----------|-----------|
| POINT           | N         | E         |
| 305             | 213529.66 | 559342.95 |
| 306             | 213540.72 | 559352.98 |
|                 |           |           |
|                 |           |           |

\*ELEVATIONS TO BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION



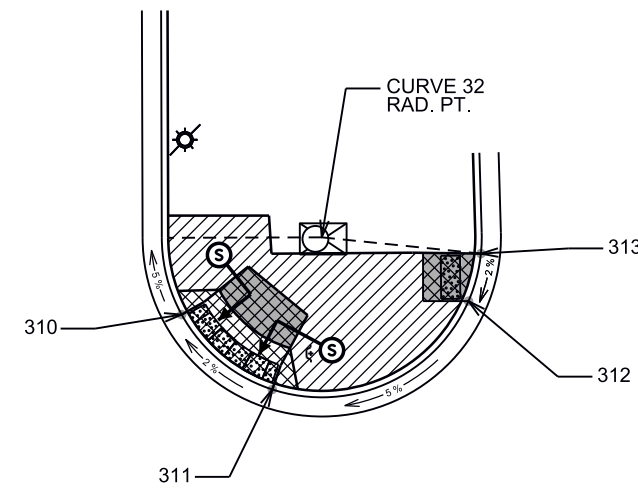
C.S.A.H. 20

| HORIZONTAL CURVE INFORMATION |           |           |       |           |           |       |               |              |           |
|------------------------------|-----------|-----------|-------|-----------|-----------|-------|---------------|--------------|-----------|
| CURVE                        | START     |           |       | END       |           |       | RADIUS TO TBC | RADIUS POINT |           |
|                              | N         | E         | Elev. | N         | E         | Elev. |               | N            | E         |
| 30                           | 213490.25 | 559346.73 | 0.00  | 213473.89 | 559365.55 | 0.00  | 18.33         | 213471.34    | 559346.54 |
| 31                           | 213530.68 | 559343.43 | 0.00  | 213540.73 | 559353.97 | 0.00  | 10.00         | 213540.67    | 559342.98 |
| 32                           | 213543.36 | 559415.57 | 0.00  | 213541.72 | 559448.83 | 0.00  | 16.00         | 213543.41    | 559432.24 |
| 33                           | 213490.04 | 559422.68 | 0.00  | 213492.18 | 559428.25 | 0.00  | 73.00         | 213422.58    | 559451.86 |
| 34                           | 213471.42 | 559408.69 | 0.00  | 213490.04 | 559422.68 | 0.00  | 23.00         | 213468.47    | 559432.01 |

ELEVATIONS ARE TO FLOW LINE

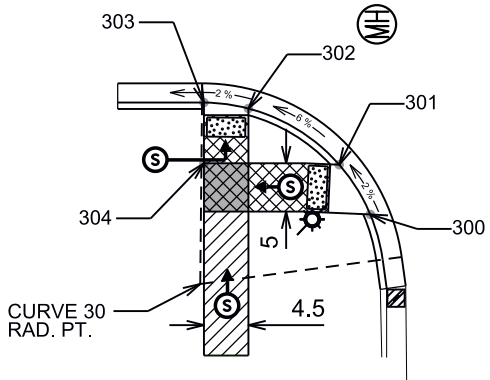
| GEOMETRY POINTS |           |           |
|-----------------|-----------|-----------|
| POINT           | N         | E         |
| 310             | 213535.36 | 559417.64 |
| 311             | 213527.55 | 559427.09 |
| 312             | 213536.76 | 559447.53 |
| 313             | 213541.72 | 559448.83 |
|                 |           |           |

\*ELEVATIONS TO BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION



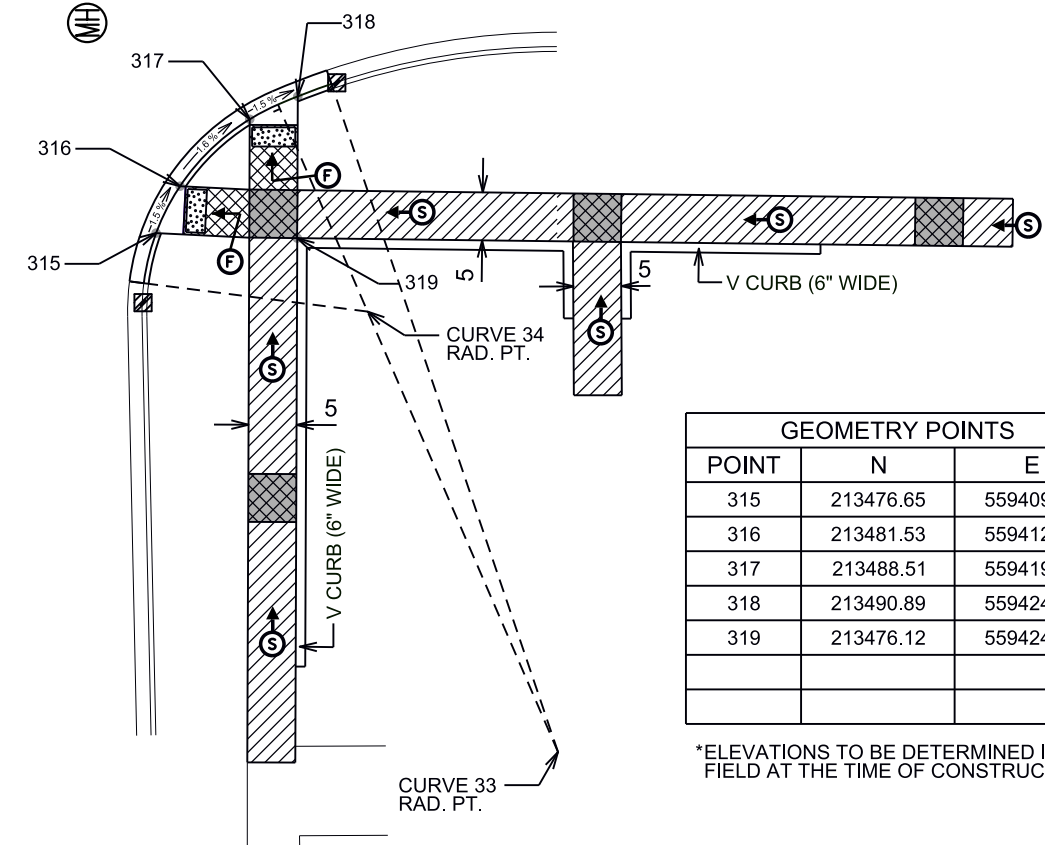
Park Street

| LEGEND 4" CONCRETE WALK |   |
|-------------------------|---|
|                         | 4" CONCRETE WALK  |
|                         | 6" CONCRETE WALK  |
|                         | CONSTRUCT CONCRETE CURB & GUTTER  |
|                         | TRUNCATED DOMES (SEE STANDARD PLATE 7038)   |
|                         | CONTROL POINTS AT GUTTER FLOW LINE  |
|                         | CURB HEIGHT   |
|                         | LANDING AREA - 4' X 4' MIN. DIMENSIONS AND MAX 2.0% SLOPE IN ALL DIRECTIONS   |
|                         | INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0% |
|                         | INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE GREATER THAN 2.0% AND LESS THAN 5.0% IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%  |
|                         | DRAINAGE FLOW ARROW   |



| GEOMETRY POINTS |           |           |
|-----------------|-----------|-----------|
| POINT           | N         | E         |
| 300             | 213478.59 | 559364.25 |
| 301             | 213483.76 | 559361.02 |
| 302             | 213489.63 | 559351.55 |
| 303             | 213490.25 | 559346.92 |
| 304             | 213483.92 | 559346.92 |
|                 |           |           |

\*ELEVATIONS TO BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION

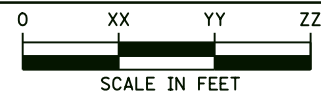


| GEOMETRY POINTS |           |           |
|-----------------|-----------|-----------|
| POINT           | N         | E         |
| 315             | 213476.65 | 559409.98 |
| 316             | 213481.53 | 559412.48 |
| 317             | 213488.51 | 559419.73 |
| 318             | 213490.89 | 559424.74 |
| 319             | 213476.12 | 559424.69 |
|                 |           |           |

\*ELEVATIONS TO BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION

PLOTTED/REVISED: 10-NOV-2021 08:51

PATH & FILENAME: P:\CO\_ROADS\20CSAH\2022 Paving\Ped Ramp Layout.dgn MODEL Park Street



I HEREBY CERTIFY THAT THIS PLAN SHEET 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.  
DATE \_\_\_\_\_ LIC. NO. 21765 ENGINEER \_\_\_\_\_

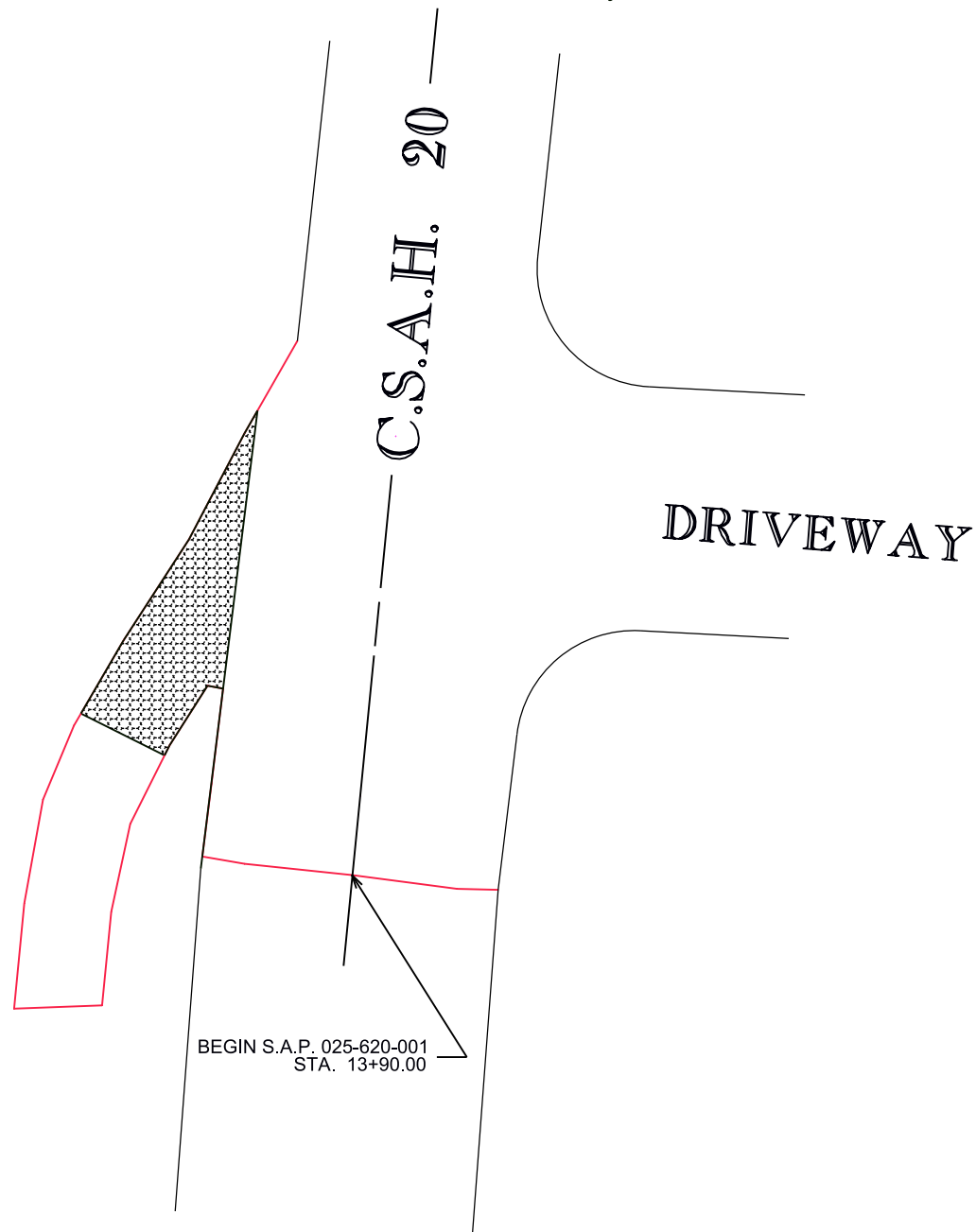
GOODHUE COUNTY  
DEPARTMENT OF PUBLIC WORKS

ADA Layout Intersection Park Street and CSAH 20  
S.A.P. NUMBER 025-620-001

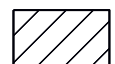

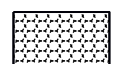
SHEET NO. 10 OF 12 SHEETS



Removal Plan  
Multi-Use Trail at Start of Project

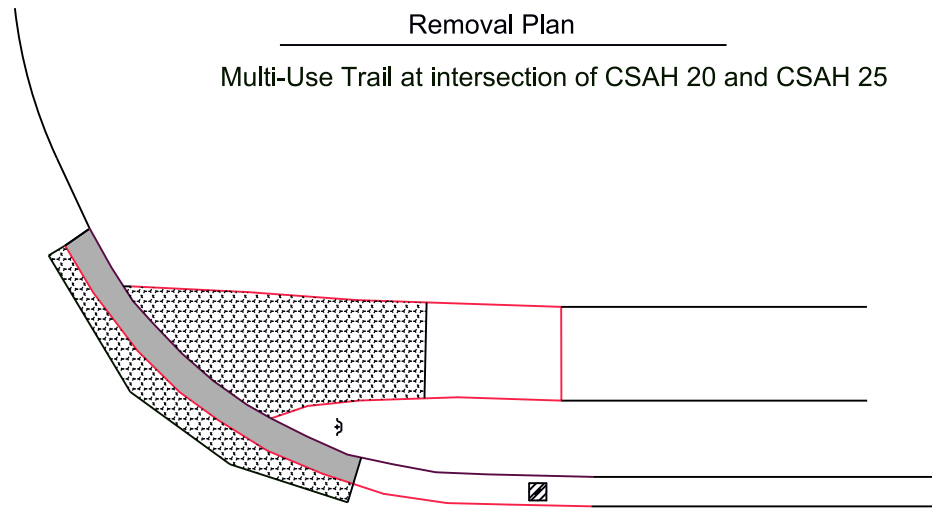


BEGIN S.A.P. 025-620-001  
STA. 13+90.00

-  REMOVE CONCRETE WALK (4" OR 6" DEPTH)
-  REMOVE CONCRETE CURB AND GUTTER
-  REMOVE BITUMINOUS PAVEMENT



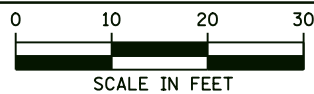
Removal Plan  
Multi-Use Trail at intersection of CSAH 20 and CSAH 25



C.S.A.H. 25

C.S.A.H. 20

- NOTES:
- ALL EXISTING SIGNING TO REMAIN INPLACE, UNLESS OTHERWISE NOTE.
  - ALL EXISTING STRIPING TO REMAIN INPLACE EXCEPT AS OTHERWISE SHOWN.
  - SIGNAL BASES AND POLES TO REMAIN INPLACE.
  - CONCRETE/BITUMINOUS PAVEMENT, WALKS, AND CURB/GUTTER NOT SHOWN FOR REMOVAL SHALL BE PROTECTED FROM DAMAGE. EXTRA REMOVALS MAY BE DIRECTED BY THE ENGINEER IN THE FIELD AS NECESSARY TO PROVIDE ADEQUATE SLOPING FOR ADA REQUIREMENTS.



I HEREBY CERTIFY THAT THIS PLAN SHEET 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.

DATE \_\_\_\_\_ LIC. NO. 21765 ENGINEER \_\_\_\_\_

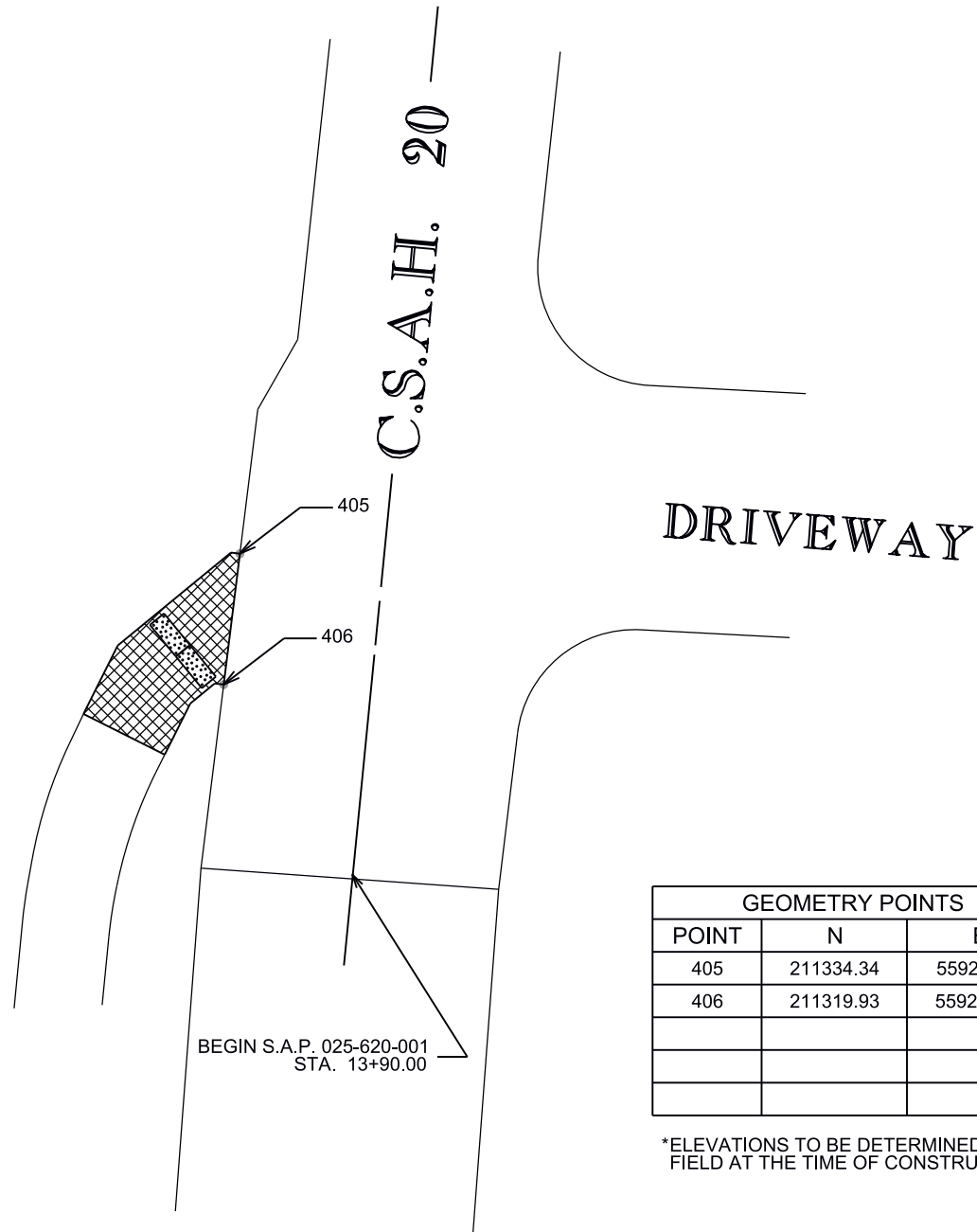
GOODHUE COUNTY  
DEPARTMENT OF PUBLIC WORKS

Removal Plan Multi-Use Trail Near Start of Project and at intersection of  
CSAH 20 and CSAH 25

S.A.P. NUMBER 025-620-001

OF 12 SHEETS

Multi-Use Trail Near Start of Project

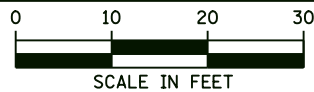


| GEOMETRY POINTS |           |           |
|-----------------|-----------|-----------|
| POINT           | N         | E         |
| 405             | 211334.34 | 559252.41 |
| 406             | 211319.93 | 559250.63 |
|                 |           |           |
|                 |           |           |

\*ELEVATIONS TO BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION

LEGEND

- 4" CONCRETE WALK
- 6" CONCRETE WALK
- CONSTRUCT CONCRETE CURB & GUTTER
- TRUNCATED DOMES (SEE STANDARD PLATE 7038)
- CONTROL POINTS AT GUTTER FLOW LINE
- LANDING AREA - 4' X 4' MIN. DIMENSIONS AND MAX 2.0% SLOPE IN ALL DIRECTIONS
- INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%
- INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE GREATER THAN 2.0% AND LESS THAN 5.0% IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%
- DRAINAGE FLOW ARROW

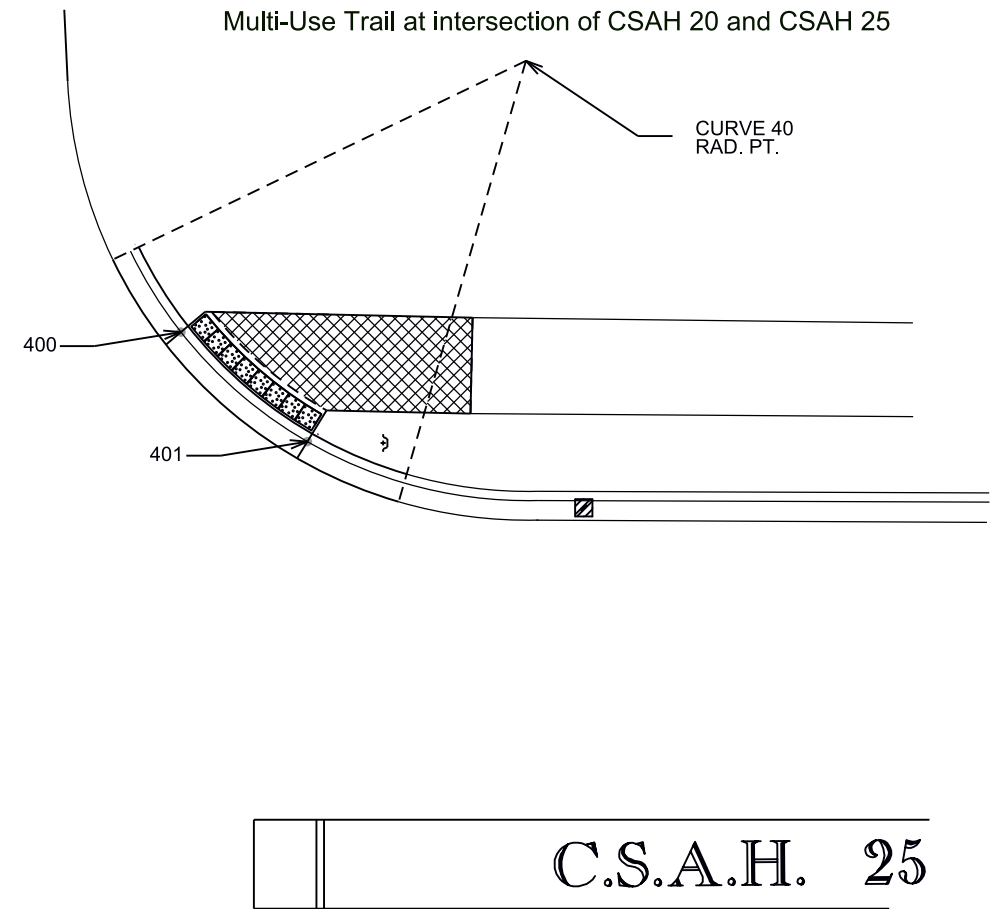


I HEREBY CERTIFY THAT THIS PLAN SHEET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE \_\_\_\_\_ LIC. NO. 21765 ENGINEER \_\_\_\_\_

GOODHUE COUNTY  
DEPARTMENT OF PUBLIC WORKS

Multi-Use Trail at intersection of CSAH 20 and CSAH 25



| GEOMETRY POINTS |           |           |
|-----------------|-----------|-----------|
| POINT           | N         | E         |
| 400             | 211368.16 | 559426.38 |
| 401             | 211356.75 | 559439.55 |
|                 |           |           |
|                 |           |           |

\*ELEVATIONS TO BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION

| HORIZONTAL CURVE INFORMATION |           |           |           |           |               |              |           |
|------------------------------|-----------|-----------|-----------|-----------|---------------|--------------|-----------|
| CURVE                        | START     |           | END       |           | RADIUS TO TBC | RADIUS POINT |           |
|                              | N         | E         | N         | E         |               | N            | E         |
| 30                           | 211376.60 | 559421.11 | 213473.89 | 559365.55 | 45.00         | 211396.42    | 559462.32 |

Removal Plan Multi-Use Trail Near Start of Project and at intersection of CSAH 20 and CSAH 25  
S.A.P. NUMBER 025-620-001 OF 12 SHEETS