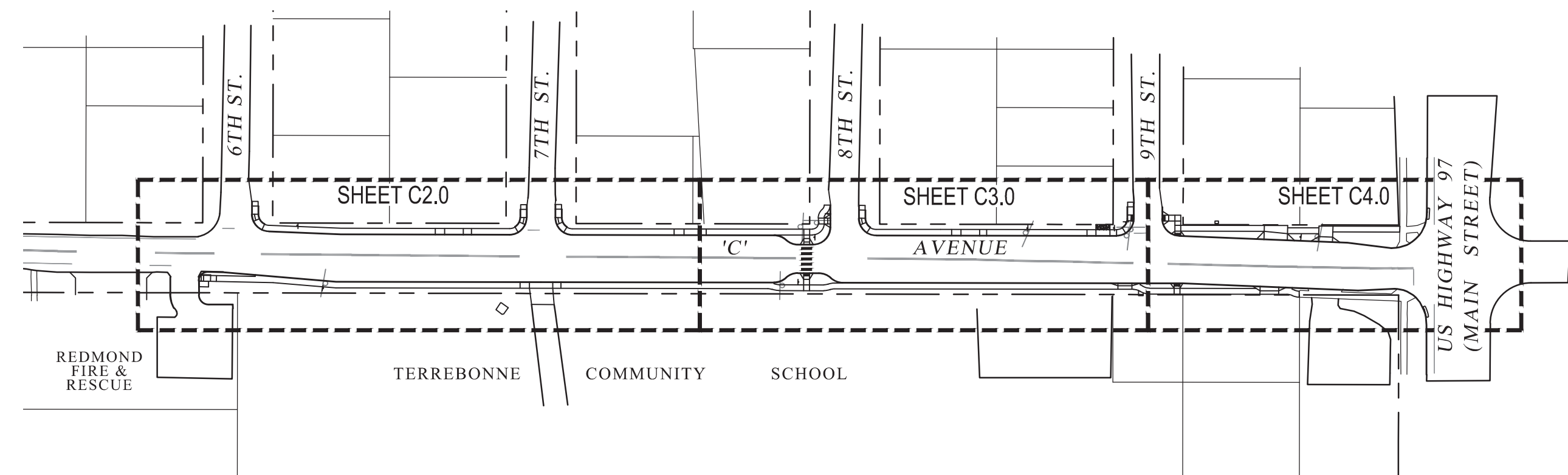


VICINITY MAP  
SCALE: 1"=500'



SITE MAP  
SCALE: 1"=100'

# ROAD IMPROVEMENT PLANS FOR C AVENUE: 6<sup>TH</sup> ST TO US 97

## TERREBONNE, DESCHUTES COUNTY, OREGON

LOCATED IN THE SW QUARTER OF SECTION 16  
TOWNSHIP 14 SOUTH, RANGE 13 EAST, W.M.

MARCH 2019

### GENERAL CONSTRUCTION NOTES

- ALL ROADWAY CONSTRUCTION SHALL BE IN ACCORDANCE WITH DESCHUTES COUNTY STANDARDS (DCC TITLE 17, CHAPTER 48), AND THE CURRENT EDITION OF THE OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION.

### DESCHUTES COUNTY STANDARD DRAWINGS

- |         |   |
|---------|---|
| DWG 1-1 | UTILITY TRENCH IN EXISTING PAVEMENT     |
| DWG 2-2 | CONCRETE CURB                           |
| DWG 2-3 | CONCRETE DRIVEWAY APRON OPTION 'A'      |
| DWG 2-4 | CONCRETE DRIVEWAY APRON OPTION 'B'      |
| DWG 2-6 | TYPICAL CONCRETE CURB & SIDEWALK DETAIL |
| DWG 3-1 | STANDARD CATCH BASIN DOUBLE & SINGLE    |

### OREGON STANDARD DRAWINGS & DETAILS

- |         |                                  |
|---------|----------------------------------|
| RD750   | CURB LINE SIDEWALK DRIVEWAYS     |
| RD755   | CURB RAMP DETAILS                |
| RD757   | CURB RAMP PLACEMENT OPTIONS      |
| RD815   | CHAIN LINK FENCE                 |
| TM503   | PAVEMENT MARKINGS                |
| DET1750 | MODIFIED CURB OPENING - OPTION 1 |

### SHEET INDEX

- |      |                                     |
|------|-------------------------------------|
| C1.0 | COVER SHEET                         |
| C1.1 | TYPICAL SECTIONS AND DETAILS        |
| C2.0 | CONSTRUCTION PLAN STA. 1+00 - 5+00  |
| C3.0 | CONSTRUCTION PLAN STA. 5+00 - 9+00  |
| C4.0 | CONSTRUCTION PLAN STA. 9+00 - 1100  |
| C5.0 | GRADING DETAILS - RAMP AND DRIVEWAY |
| C5.1 | GRADING DETAILS - RAMP AND DRIVEWAY |
| C6.0 | STORMWATER BASIN MAP                |
| C7.0 | PROFILE STA. 1+00 - 6+00            |
| C8.0 | PROFILE STA. 6+00 - 11+00           |

### APPROVALS

DESCHUTES COUNTY ROAD DEPT: \_\_\_\_\_

TERREBONNE WATER DISTRICT: \_\_\_\_\_



DESCHUTES COUNTY  
C AVENUE: 6<sup>TH</sup> ST TO US 97  
COVER SHEET  
TERREBONNE, OREGON

REVISIONS:

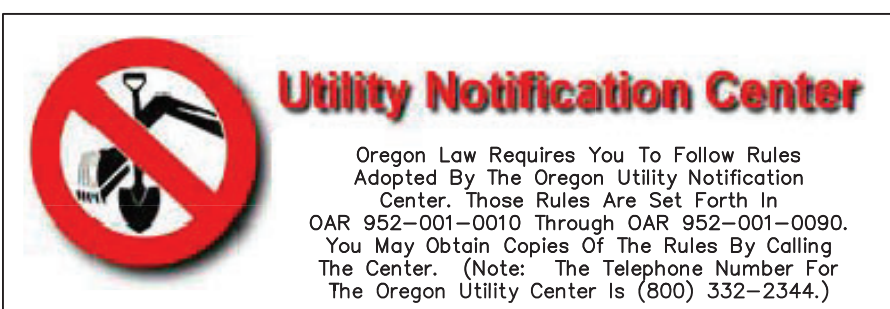


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DATE: 3/18/2019

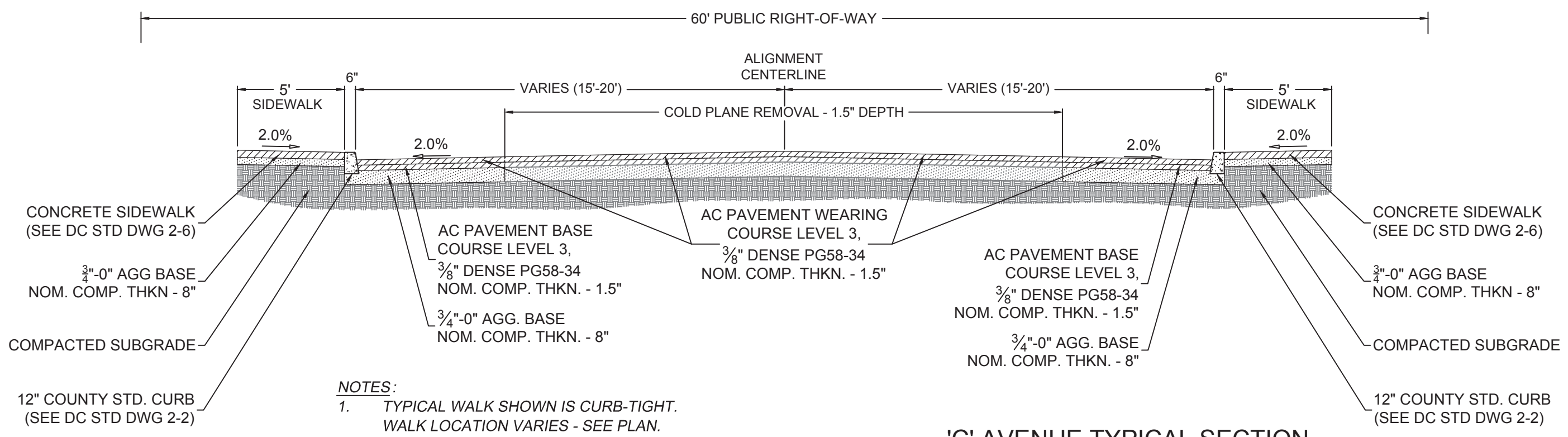
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BAR EQUALS ONE INCH  
ON ORIGINAL DRAWING

SHEET:  
**C1.0**

HWA # 180703

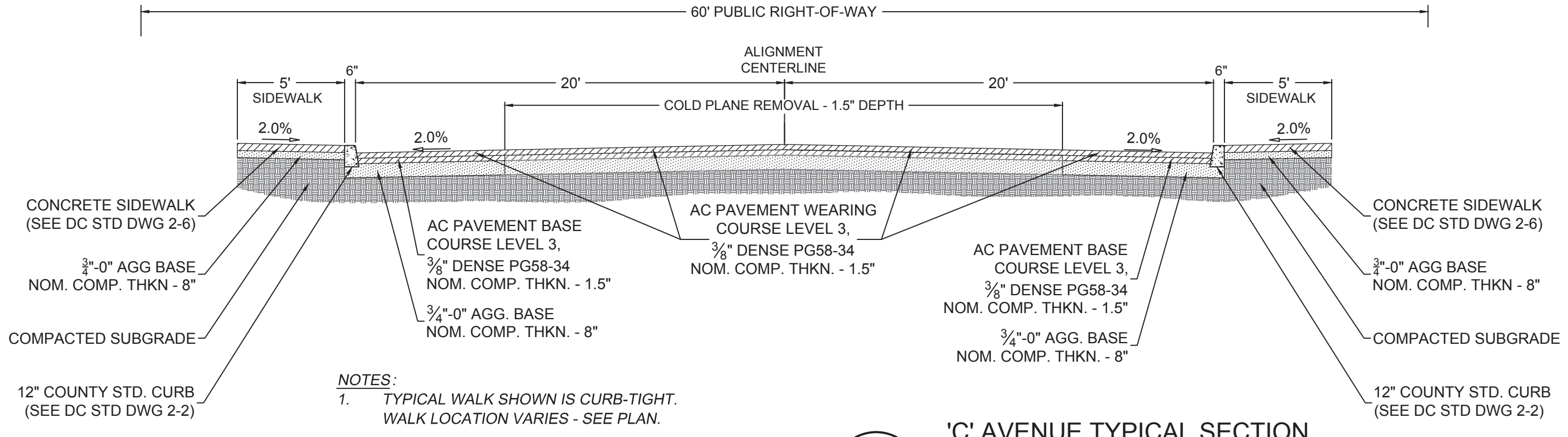


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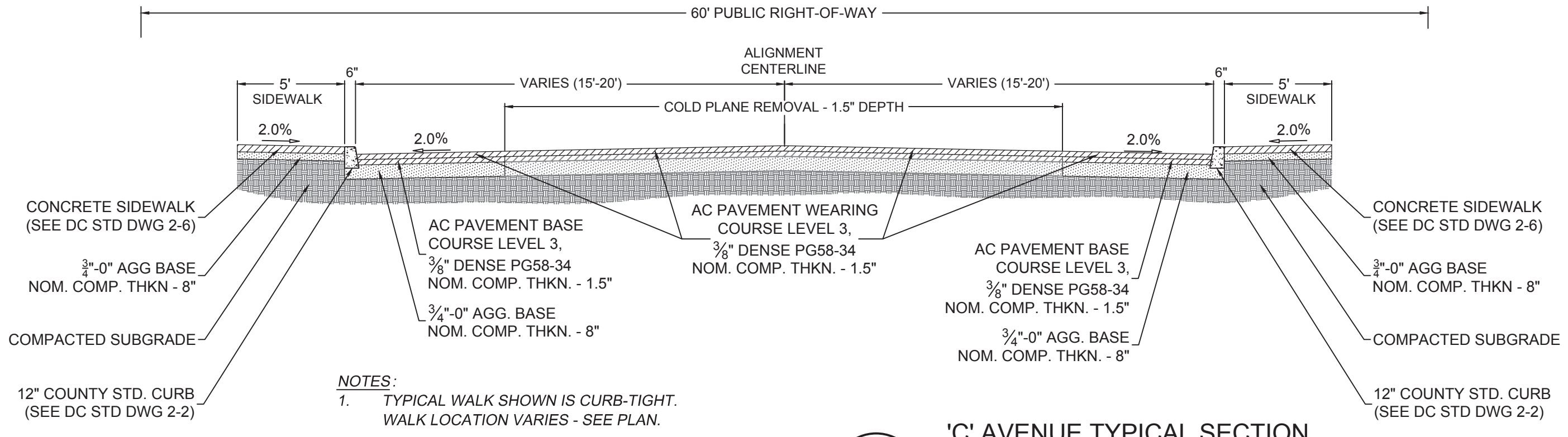
- NOTES:**
1. TYPICAL WALK SHOWN IS CURB-TIGHT. WALK LOCATION VARIES - SEE PLAN.
  2. RELATIONSHIP BETWEEN ALIGNMENT  $\epsilon$ , ROW  $\epsilon$ , AND STRIPING  $\epsilon$  VARIES - SEE PLAN.
  3. SAWCUT MIN. 2' FROM EXISTING EDGE OF PAVEMENT OR FUTURE FACE OF CURB. SAWCUT LOCATION VARIES - SEE PLAN.

**1**  
C1.1  
**'C' AVENUE TYPICAL SECTION**  
STA. 0+60 - 1+80  
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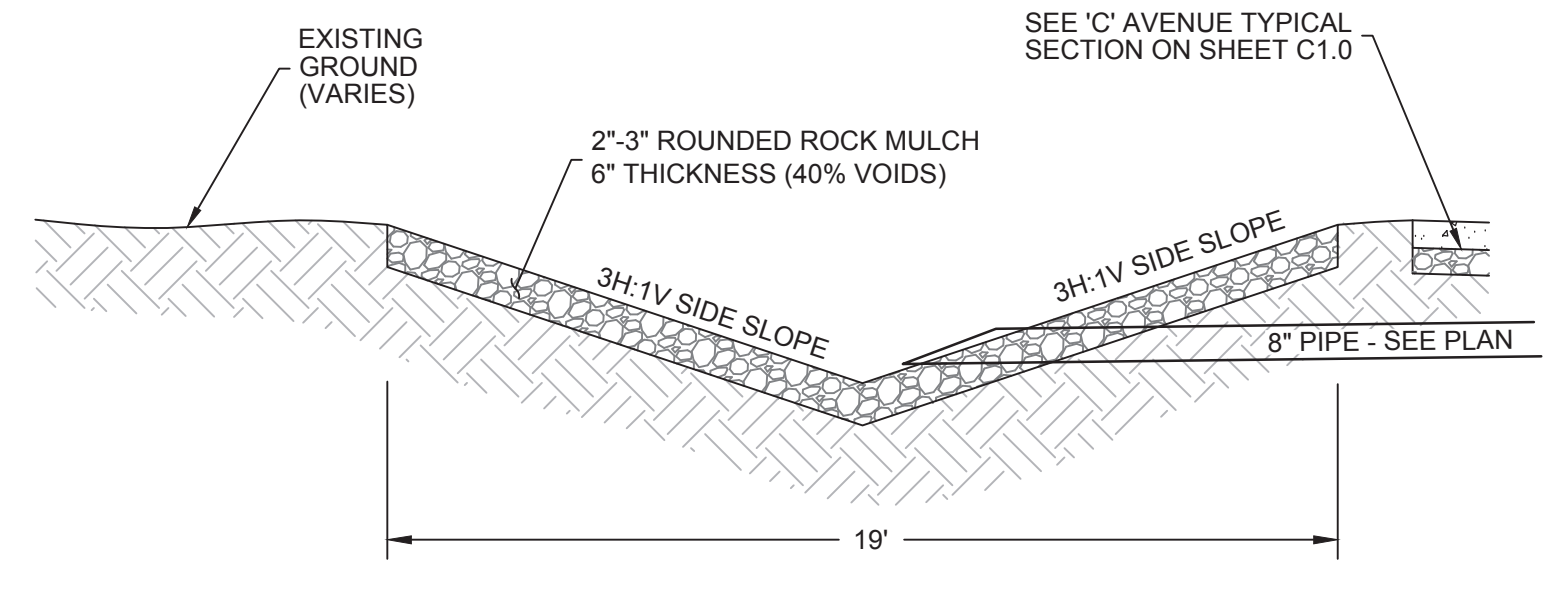
- NOTES:**
1. TYPICAL WALK SHOWN IS CURB-TIGHT. WALK LOCATION VARIES - SEE PLAN.
  2. RELATIONSHIP BETWEEN ALIGNMENT  $\epsilon$ , ROW  $\epsilon$ , AND STRIPING  $\epsilon$  VARIES - SEE PLAN.
  3. SAWCUT MIN. 2' FROM EXISTING EDGE OF PAVEMENT OR FUTURE FACE OF CURB. SAWCUT LOCATION VARIES - SEE PLAN.

**2**  
C1.1  
**'C' AVENUE TYPICAL SECTION**  
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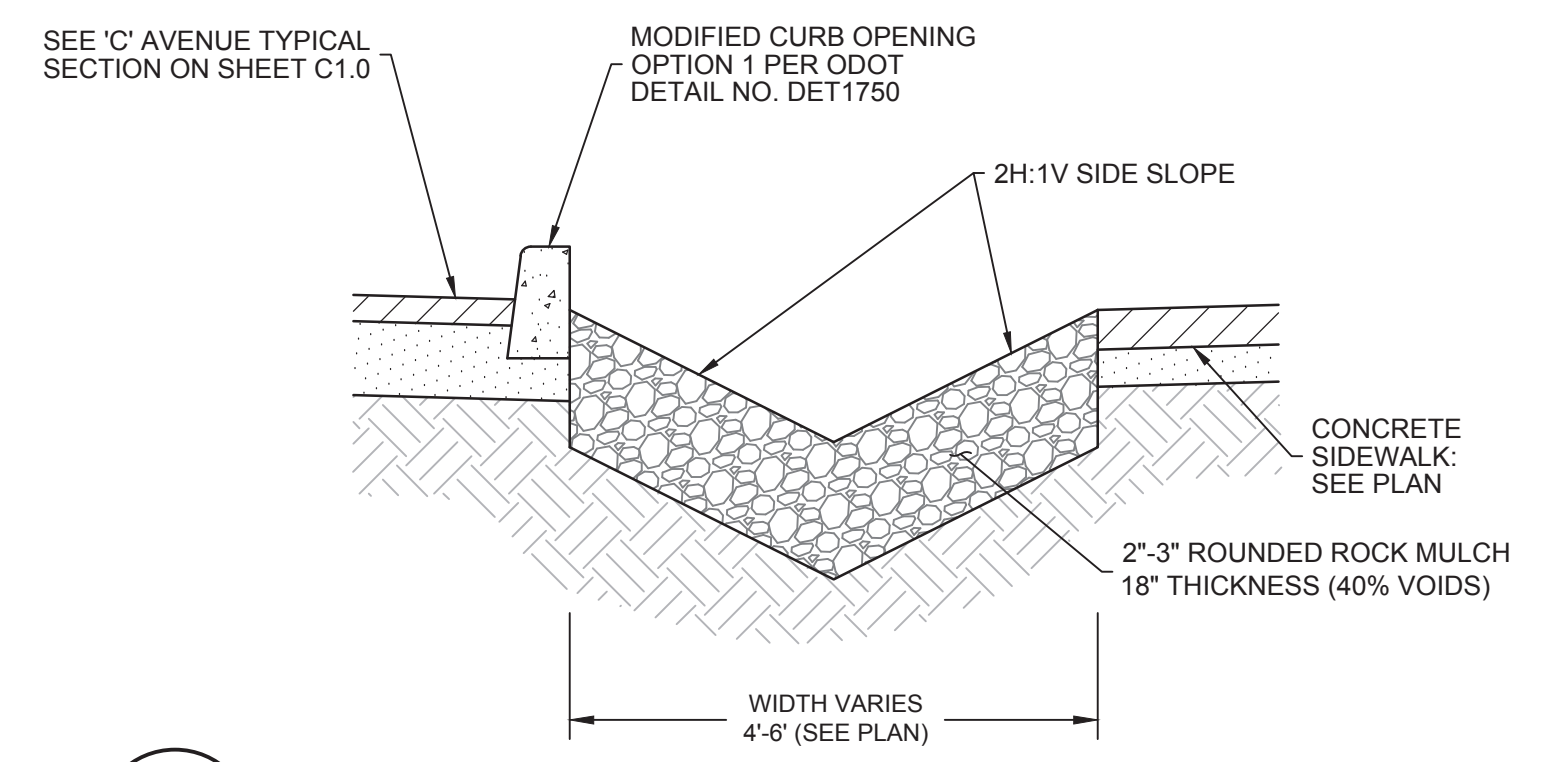


- NOTES:**
1. TYPICAL WALK SHOWN IS CURB-TIGHT. WALK LOCATION VARIES - SEE PLAN.
  2. RELATIONSHIP BETWEEN ALIGNMENT  $\epsilon$ , ROW  $\epsilon$ , AND STRIPING  $\epsilon$  VARIES - SEE PLAN.
  3. SAWCUT MIN. 2' FROM EXISTING EDGE OF PAVEMENT OR FUTURE FACE OF CURB. SAWCUT LOCATION VARIES - SEE PLAN.

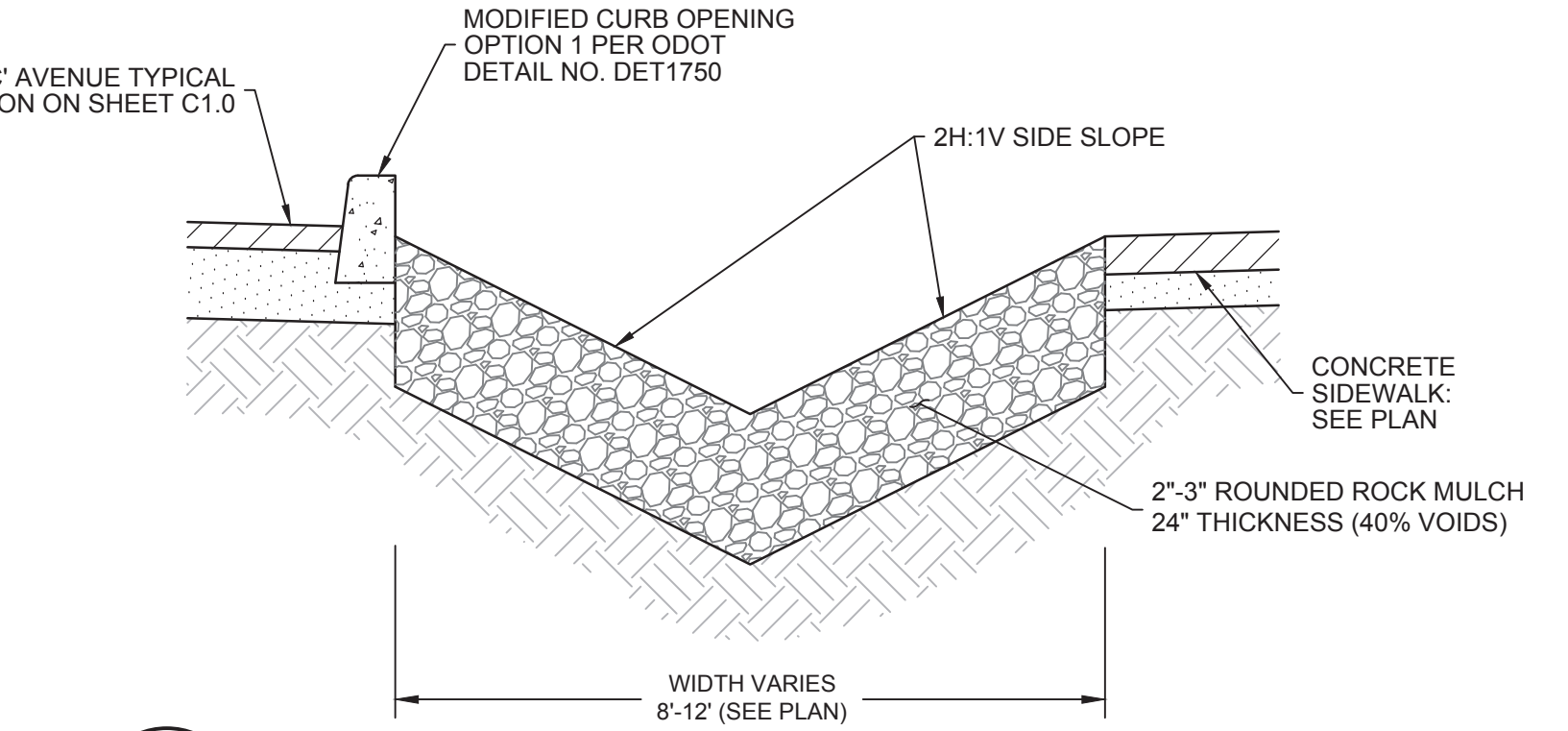
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**4**  
C1.1  
**ROCK-LINED DRAINAGE BASIN DETAIL**  
SCALE: NOT TO SCALE



**5**  
C1.1  
**ROCK-LINED DRAINAGE BASIN DETAIL**  
SCALE: NOT TO SCALE



**6**  
C1.1  
**ROCK-LINED DRAINAGE BASIN DETAIL**  
SCALE: NOT TO SCALE



Renewal Date: 12/31/2020

DESCHUTES COUNTY  
**C AVENUE: 6TH ST TO US 97**  
TYPICAL SECTIONS AND DETAILS  
TERREBONNE, OREGON

NO.	REVISIONS

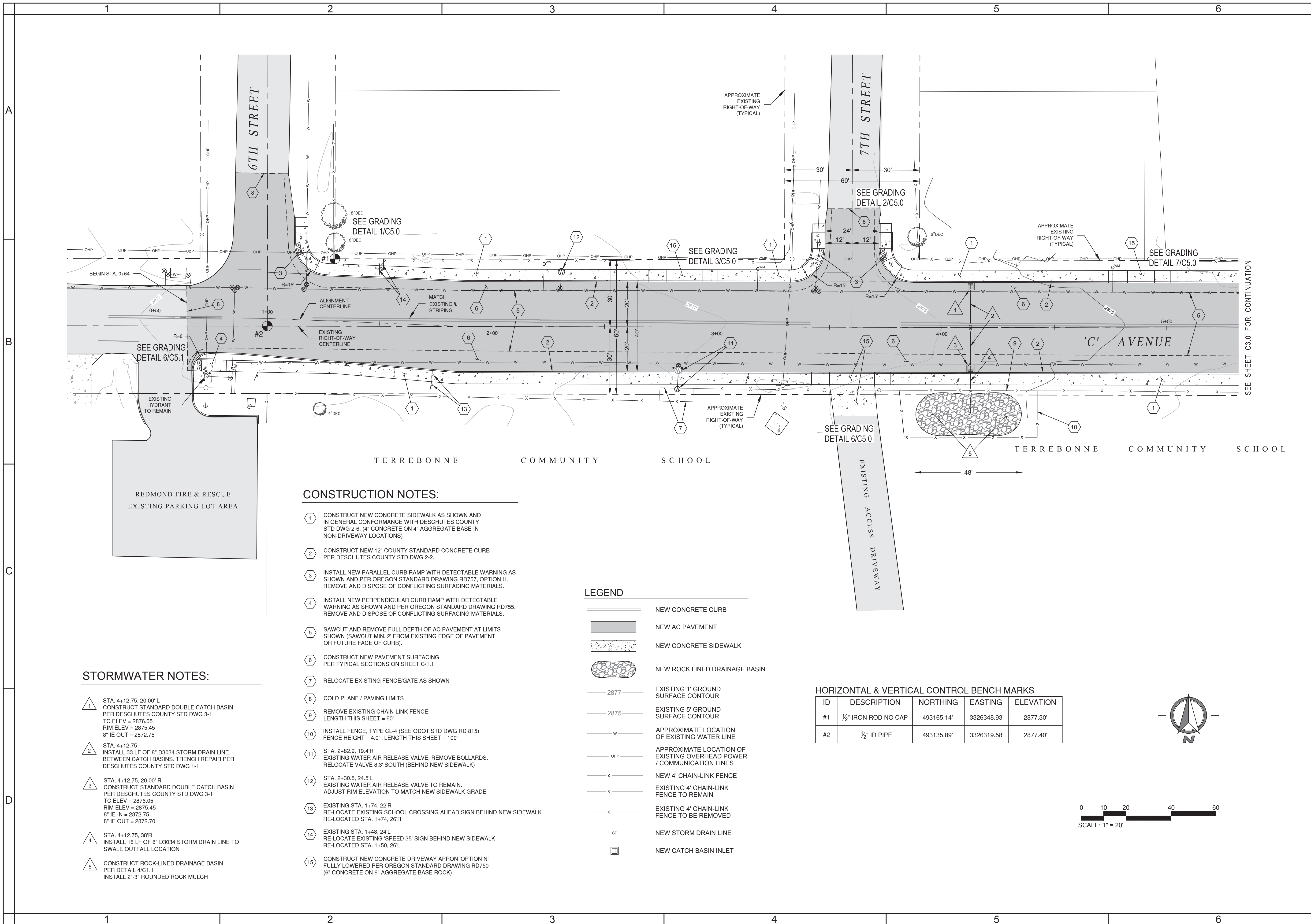


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BAR EQUALS ONE INCH ON ORIGINAL DRAWING

SHEET:  
**C1.1**  
HWA # 180703

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REGISTERED PROFESSIONAL  
ENGINEER  
75055PE  
OREGON  
SEPT. 14, 2004  
BRETT A. PARKER  
Renewal Date: 12/31/2020

DESCHUTES COUNTY  
**C AVENUE: 6TH ST TO US 97**  
CONSTRUCTION PLAN STA. 1+00 - 5+00  
TERREBONNE, OREGON

REVISIONS:


**HWA**  
CIVIL ENGINEERING | SURVEYING | PLANNING  
6230 O.B. REEY ROAD, STE. 100, BEND, OR 97703  
PHONE: (503) 338-5416  
WEB: WWW.HWA-INC.COM

DESIGNED BY: BAP  
DRAWN BY: CAB  
CHECKED BY: BAP  
SCALE: 1" = 20'  
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DATE: **3/18/2019**

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BAR EQUALS ONE INCH ON ORIGINAL DRAWING

SHEET:  
**C2.0**  
HWA # 180703

**CONSTRUCTION NOTES:**

- 1 CONSTRUCT NEW CONCRETE SIDEWALK AS SHOWN AND IN GENERAL CONFORMANCE WITH DESCHUTES COUNTY STD DWG 2-6. (4" CONCRETE ON 4" AGGREGATE BASE IN NON-DRIVEWAY LOCATIONS)
- 2 CONSTRUCT NEW 12" COUNTY STANDARD CONCRETE CURB PER DESCHUTES COUNTY STD DWG 2-2.
- 3 INSTALL NEW PARALLEL CURB RAMP WITH DETECTABLE WARNING AS SHOWN AND PER OREGON STANDARD DRAWING RD757. OPTION H. REMOVE AND DISPOSE OF CONFLICTING SURFACING MATERIALS.
- 4 INSTALL NEW PERPENDICULAR CURB RAMP WITH DETECTABLE WARNING AS SHOWN AND PER OREGON STANDARD DRAWING RD755. REMOVE AND DISPOSE OF CONFLICTING SURFACING MATERIALS.
- 5 SAWCUT AND REMOVE FULL DEPTH OF AC PAVEMENT AT LIMITS SHOWN (SAWCUT MIN. 2" FROM EXISTING EDGE OF PAVEMENT OR FUTURE FACE OF CURB).
- 6 CONSTRUCT NEW PAVEMENT SURFACING PER TYPICAL SECTIONS ON SHEET C/1.1
- 7 RELOCATE EXISTING FENCE/GATE AS SHOWN
- 8 COLD PLANE / PAVING LIMITS
- 9 REMOVE EXISTING CHAIN-LINK FENCE LENGTH THIS SHEET = 60'
- 10 INSTALL FENCE, TYPE CL-4 (SEE ODOT STD DWG RD 815) FENCE HEIGHT = 4.0'; LENGTH THIS SHEET = 100'
- 11 STA. 2+82.9, 19.4'R EXISTING WATER AIR RELEASE VALVE. REMOVE BOLLARDS, RELOCATE VALVE 8.3' SOUTH (BEHIND NEW SIDEWALK)
- 12 STA. 2+30.8, 24.5'L EXISTING WATER AIR RELEASE VALVE TO REMAIN. ADJUST RIM ELEVATION TO MATCH NEW SIDEWALK GRADE
- 13 EXISTING STA. 1+74, 22'R RE-LOCATE EXISTING SCHOOL CROSSING AHEAD SIGN BEHIND NEW SIDEWALK RE-LOCATED STA. 1+74, 26'R
- 14 EXISTING STA. 1+48, 24'L RE-LOCATE EXISTING 'SPEED 35' SIGN BEHIND NEW SIDEWALK RE-LOCATED STA. 1+50, 26'L
- 15 CONSTRUCT NEW CONCRETE DRIVEWAY APRON 'OPTION N' FULLY LOWERED PER OREGON STANDARD DRAWING RD750 (6" CONCRETE ON 6" AGGREGATE BASE ROCK)

**STORMWATER NOTES:**

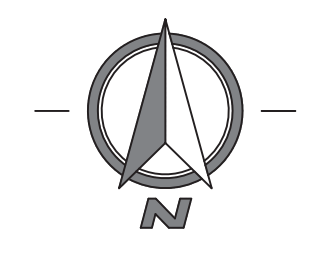
- 1 STA. 4+12.75, 20.00' L CONSTRUCT STANDARD DOUBLE CATCH BASIN PER DESCHUTES COUNTY STD DWG 3-1 TC ELEV = 2876.05 RIM ELEV = 2875.45 8" IE OUT = 2872.75
- 2 STA. 4+12.75 INSTALL 33 LF OF 8" D3034 STORM DRAIN LINE BETWEEN CATCH BASINS. TRENCH REPAIR PER DESCHUTES COUNTY STD DWG 1-1
- 3 STA. 4+12.75, 20.00' R CONSTRUCT STANDARD DOUBLE CATCH BASIN PER DESCHUTES COUNTY STD DWG 3-1 TC ELEV = 2876.05 RIM ELEV = 2875.45 8" IE IN = 2872.75 8" IE OUT = 2872.70
- 4 STA. 4+12.75, 38'R INSTALL 18 LF OF 8" D3034 STORM DRAIN LINE TO SWALE OUTFALL LOCATION
- 5 CONSTRUCT ROCK-LINED DRAINAGE BASIN PER DETAIL 4/C1.1 INSTALL 2'-3" ROUNDED ROCK MULCH

**LEGEND**

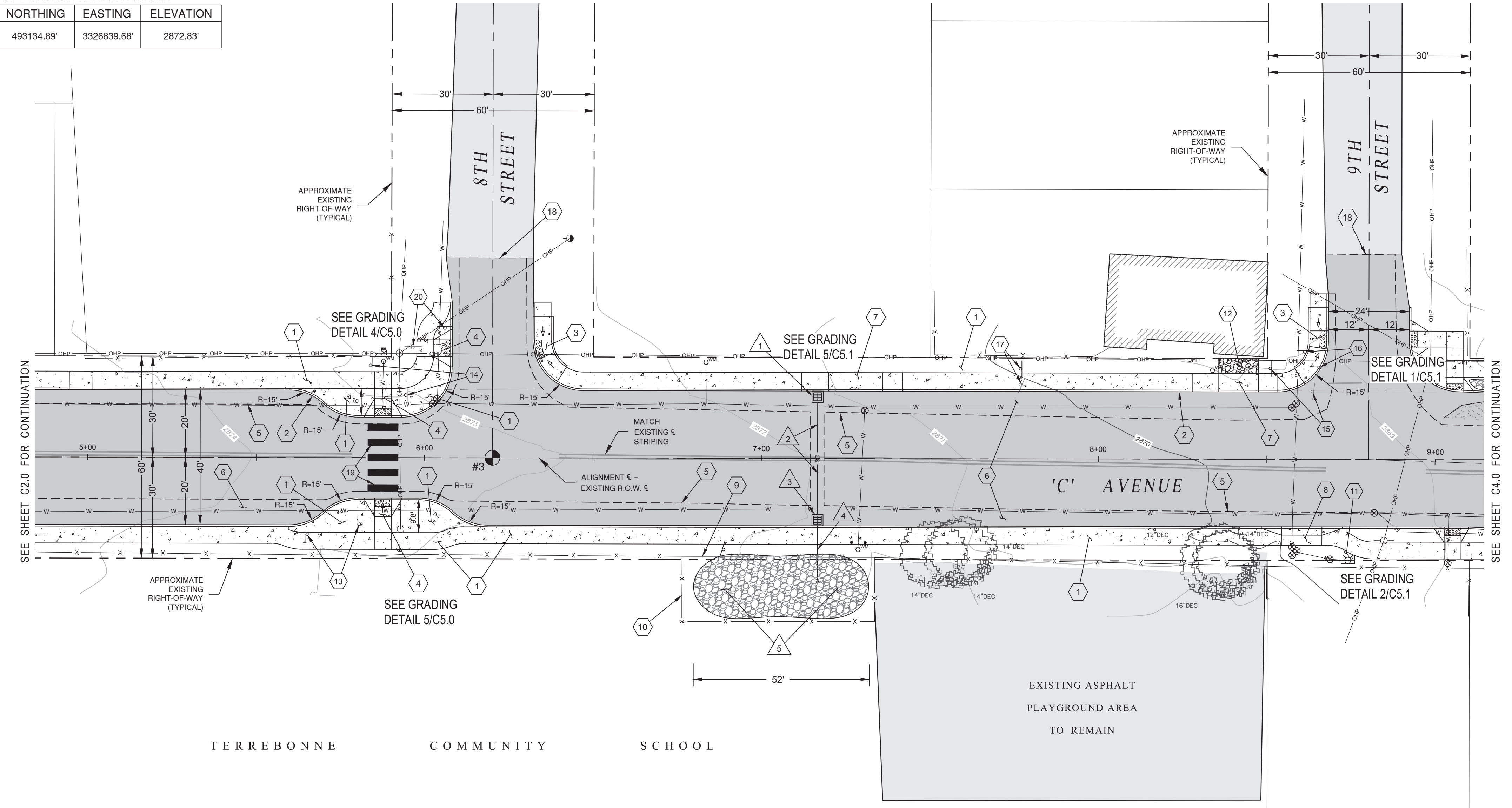
- NEW CONCRETE CURB
- NEW AC PAVEMENT
- NEW CONCRETE SIDEWALK
- NEW ROCK LINED DRAINAGE BASIN
- EXISTING 1' GROUND SURFACE CONTOUR
- EXISTING 5' GROUND SURFACE CONTOUR
- APPROXIMATE LOCATION OF EXISTING WATER LINE
- APPROXIMATE LOCATION OF EXISTING OVERHEAD POWER / COMMUNICATION LINES
- NEW 4' CHAIN-LINK FENCE
- EXISTING 4' CHAIN-LINK FENCE TO REMAIN
- EXISTING 4' CHAIN-LINK FENCE TO BE REMOVED
- NEW STORM DRAIN LINE
- NEW CATCH BASIN INLET

**HORIZONTAL & VERTICAL CONTROL BENCHMARKS**

ID	DESCRIPTION	NORTHING	EASTING	ELEVATION
#1	1/2" IRON ROD NO CAP	493165.14'	3326348.93'	2877.30'
#2	1/2" ID PIPE	493135.89'	3326319.58'	2877.40'



HORIZONTAL & VERTICAL CONTROL BENCH MARK				
ID	DESCRIPTION	NORTHING	EASTING	ELEVATION
#3	1/2" ID PIPE	493134.89'	3326839.68'	2872.83'



**LEGEND**

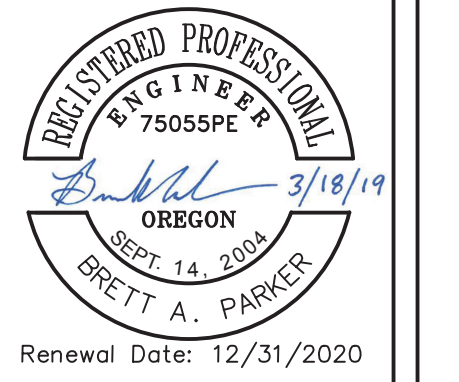
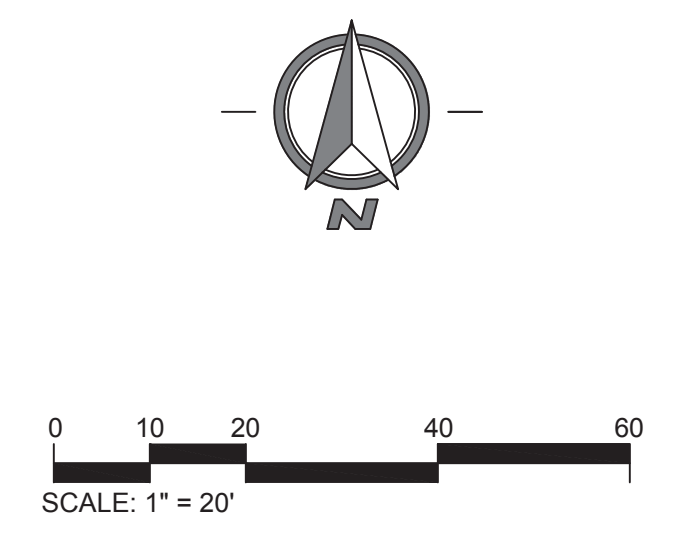
	NEW CONCRETE CURB
	NEW AC PAVEMENT
	NEW CONCRETE SIDEWALK
	NEW ROCK LINED DRAINAGE BASIN
	EXISTING 1' GROUND SURFACE CONTOUR
	EXISTING 5' GROUND SURFACE CONTOUR
	APPROXIMATE LOCATION OF EXISTING WATER LINE
	APPROXIMATE LOCATION OF EXISTING OVERHEAD POWER / COMMUNICATION LINES
	NEW 4' CHAIN-LINK FENCE
	EXISTING 4' CHAIN-LINK FENCE TO REMAIN
	EXISTING 4' CHAIN-LINK FENCE TO BE REMOVED
	NEW STORM DRAIN LINE
	NEW CATCH BASIN INLET

**CONSTRUCTION NOTES:**

- 1 CONSTRUCT NEW CONCRETE SIDEWALK AS SHOWN AND IN GENERAL CONFORMANCE WITH DESCHUTES COUNTY STD DWG 2-6. (4" CONCRETE ON 4" AGGREGATE BASE IN NON-DRIVEWAY LOCATIONS)
- 2 CONSTRUCT NEW 12" COUNTY STANDARD CONCRETE CURB PER DESCHUTES COUNTY STD DWG 2-2.
- 3 INSTALL NEW PARALLEL CURB RAMP WITH DETECTABLE WARNING AS SHOWN AND PER OREGON STANDARD DRAWING RD757. OPTION H. REMOVE AND DISPOSE OF CONFLICTING SURFACING MATERIALS.
- 4 INSTALL NEW PERPENDICULAR CURB RAMP WITH DETECTABLE WARNING AS SHOWN AND PER OREGON STANDARD DRAWING RD755. REMOVE AND DISPOSE OF CONFLICTING SURFACING MATERIALS.
- 5 SAWCUT AND REMOVE FULL DEPTH OF AC PAVEMENT AT LIMITS SHOWN (SAWCUT MIN. 2" FROM EXISTING EDGE OF PAVEMENT OR FUTURE FACE OF CURB).
- 6 CONSTRUCT NEW PAVEMENT SURFACING PER TYPICAL SECTIONS ON SHEET C1.1
- 7 CONSTRUCT NEW CONCRETE DRIVEWAY APRON 'OPTION N' FULLY LOWERED PER OREGON STANDARD DRAWING RD759 (6" CONCRETE ON 6" AGGREGATE BASE ROCK)
- 8 CONSTRUCT NEW CONCRETE DRIVEWAY APRON 'OPTION B' PER DESCHUTES COUNTY STD DWG 2-4 (6" CONCRETE ON 6" AGGREGATE BASE ROCK)
- 9 REMOVE EXISTING CHAIN-LINK FENCE LENGTH THIS SHEET = 60'
- 10 INSTALL FENCE, TYPE CL-4 (SEE ODOT STD DWG RD 815) FENCE HEIGHT = 4.0'; LENGTH THIS SHEET = 95'
- 11 STA. 8+75, 30'R CONSTRUCT NEW HYDRANT PAD 4" CONC. ON 4" AGG. BASE
- 12 CONSTRUCT 3/4"-0" AGG. BASE ROCK (NOM. COMP. THKN. 6") FOR DRIVEWAY APPROACH
- 13 EXISTING STA. 5+65, 23'R RE-LOCATE EXISTING SCHOOL CROSSING SIGN RE-LOCATED STA. 5+80, 20'R
- 14 EXISTING STA. 5+84, 27'L RE-LOCATE EXISTING SCHOOL CROSSING SIGN RE-LOCATED STA. 5+95, 19'L
- 15 EXISTING STA. 8+64, 20'L RE-LOCATE EXISTING SCHOOL CROSSING AHEAD SIGN BEHIND SIDEWALK RE-LOCATED STA. 8+51, 27'L
- 16 EXISTING STA. 8+65, 28'L RE-LOCATE EXISTING STOP AND ROAD NAME SIGN BEHIND SIDEWALK RE-LOCATED STA. 8+61, 32'L
- 17 EXISTING STA. 7+77, 22'L RE-LOCATE EXISTING 'SCHOOL SPEED 20' SIGN BEHIND SIDEWALK RE-LOCATED STA. 7+77, 27'L
- 18 COLD PLANE / PAVING LIMITS
- 19 INSTALL NEW PAVEMENT MARKINGS (CW-SC) STAGGERED CONTINENTAL CROSSWALK 2' WHITE BARS PER OREGON STANDARD DRAWING TM503
- 20 EXISTING STA. 5+96, 32'L RE-LOCATE EXISTING STOP AND ROAD NAME SIGN RE-LOCATED STA. 6+06, 39'L

**STORMWATER NOTES:**

- 1 STA. 7+16.60, 20.00' L CONSTRUCT STANDARD DOUBLE CATCH BASIN PER DESCHUTES COUNTY STD DWG 3-1 TC ELEV = 2871.70 RIM ELEV = 2871.10 8" IE OUT = 2868.40
- 2 STA. 7-16.60 INSTALL 33 LF OF 8" D3034 STORM DRAIN LINE BETWEEN CATCH BASINS. TRENCH REPAIR PER DESCHUTES COUNTY STD DWG 1-1
- 3 STA. 7+16.60, 20.00' R CONSTRUCT STANDARD DOUBLE CATCH BASIN PER DESCHUTES COUNTY STD DWG 3-1 TC ELEV = 2871.70 RIM ELEV = 2871.70 8" IE IN = 2868.40 8" IE OUT = 2868.30
- 4 STA. 7+16.60, 36'R INSTALL 16 LF OF 8" D3034 STORM DRAIN LINE TO SWALE OUTFALL LOCATION
- 5 CONSTRUCT ROCK-LINED DRAINAGE BASIN PER DETAIL 4/C1.1 INSTALL 2'-3" ROUNDED ROCK MULCH



DESCHUTES COUNTY  
**C AVENUE: 6TH ST TO US 97**  
 CONSTRUCTION PLAN STA. 5+00 - 9+00  
 TERREBONNE, OREGON

REVISIONS:

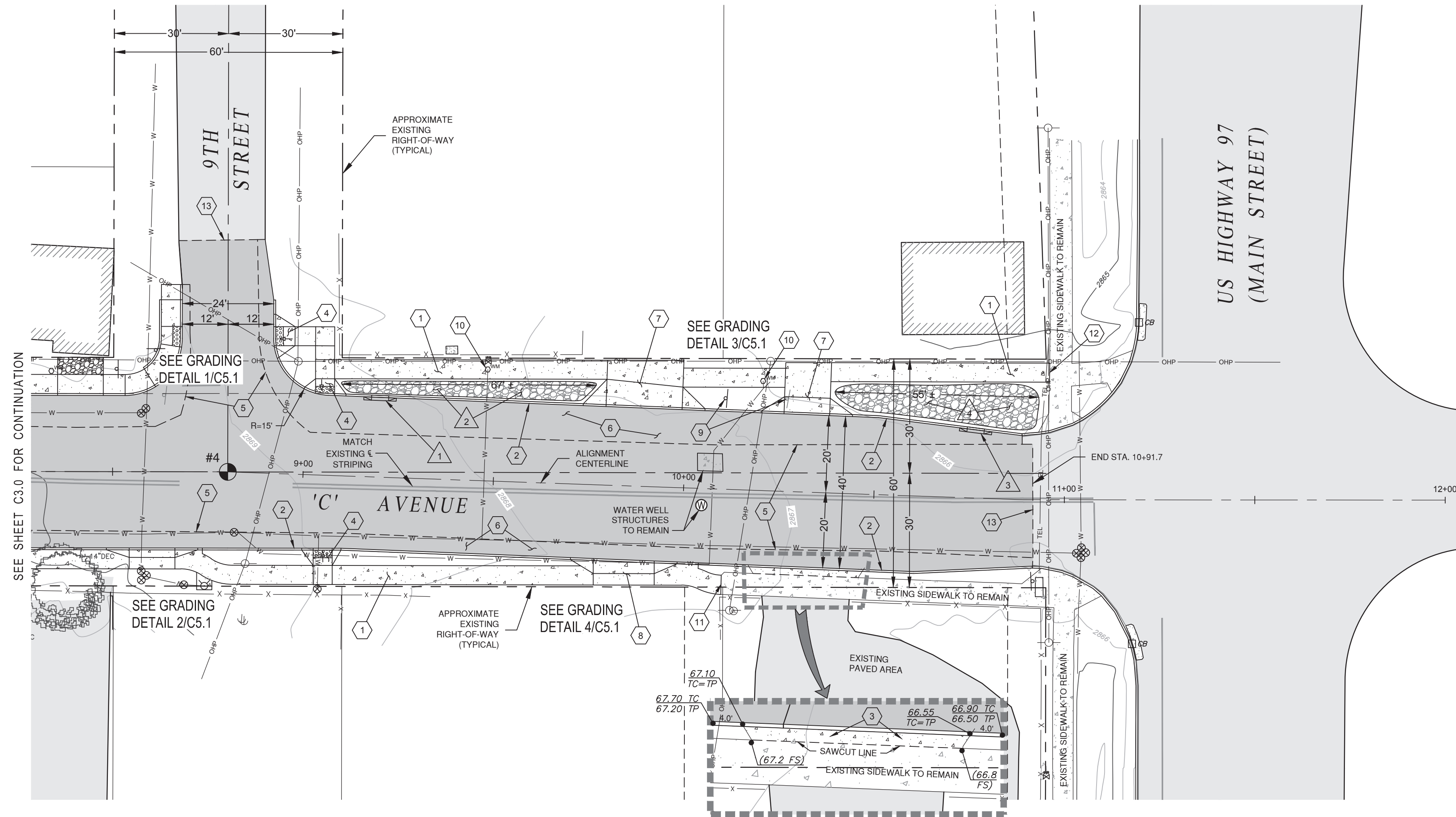



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 DATE: 3/18/2019

VERIFY SCALES  
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SHEET:  
**C3.0**  
 HWA # 180703

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**STORMWATER NOTES:**

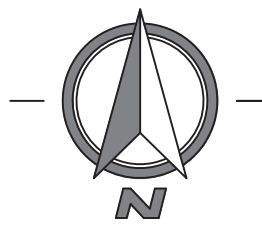
- 1 STA. 9+20.00, 20.94' L  
CONSTRUCT CURB INLET PER ODOT DETAIL DET1750  
TC ELEV = 2868.70  
GUTTER LINE ELEV = 2868.10
- 2 CONSTRUCT ROCK-LINED SWALE  
PER DETAIL 5/C1.1
- 3 STA. 9+20.00, 20.94' L  
CONSTRUCT CURB INLET PER ODOT DETAIL DET1750  
TC ELEV = 2866.30  
GUTTER LINE ELEV = 2865.70
- 4 CONSTRUCT ROCK-LINED DRAINAGE BASIN PER DETAIL 6/C1.1  
INSTALL 2'-3" ROUNDED ROCK MULCH

**CONSTRUCTION NOTES:**

- 1 CONSTRUCT NEW CONCRETE SIDEWALK AS SHOWN AND IN GENERAL CONFORMANCE WITH DESCHUTES COUNTY STD DWG 2-6. (4" CONCRETE ON 4" AGGREGATE BASE IN NON-DRIVEWAY LOCATIONS)
- 2 CONSTRUCT NEW 12" COUNTY STANDARD CONCRETE CURB PER DESCHUTES COUNTY STD DWG 2-2.
- 3 0" CURB REVEAL AT EXISTING DRIVEWAY - GRADES AS SHOWN ON PLAN. 4.0' TRANSITION TO FULL REVEAL CURB ON EITHER SIDE OF DRIVEWAY. SAWCUT CONCRETE APRON AT LOCATION SHOWN. MATCH GRADES AT EXISTING WALK. NEW CONCRETE 6" THKN.
- 4 INSTALL NEW PERPENDICULAR CURB RAMP WITH DETECTABLE WARNING AS SHOWN AND PER OREGON STANDARD DRAWING RD755. REMOVE AND DISPOSE OF CONFLICTING SURFACING MATERIALS.
- 5 SAWCUT AND REMOVE FULL DEPTH OF AC PAVEMENT AT LIMITS SHOWN (SAWCUT MIN. 2' FROM EXISTING EDGE OF PAVEMENT OR FUTURE FACE OF CURB).
- 6 CONSTRUCT NEW PAVEMENT SURFACING PER TYPICAL SECTIONS ON SHEET C1.1
- 7 CONSTRUCT NEW CONCRETE DRIVEWAY APRON 'OPTION A' PER DESCHUTES COUNTY STD DWG 2-3 (6" CONCRETE ON 6" AGGREGATE BASE ROCK)
- 8 CONSTRUCT NEW CONCRETE DRIVEWAY APRON 'OPTION B' PER DESCHUTES COUNTY STD DWG 2-4 (6" CONCRETE ON 6" AGGREGATE BASE ROCK)
- 9 EXISTING STA. 10+27, 24'L  
RE-LOCATE EXISTING 'SPEED 35' SIGN  
RE-LOCATED STA. 10+10, 24'L
- 10 ADJUST EXISTING WATER METER BOX TO FINISH GRADES
- 11 STA. 10+11, 25'R  
CONNECT TO EXISTING WALK - MATCH GRADES
- 12 STA. 10+96, 33'L  
CONNECT TO EXISTING WALK - MATCH GRADES
- 13 COLD PLANE / PAVING LIMITS

**LEGEND**

- NEW CONCRETE CURB
- NEW AC PAVEMENT
- NEW CONCRETE SIDEWALK
- NEW ROCK LINED DRAINAGE BASIN
- 2877 EXISTING 1' GROUND SURFACE CONTOUR
- 2875 EXISTING 5' GROUND SURFACE CONTOUR
- W APPROXIMATE LOCATION OF EXISTING WATER LINE
- OHP APPROXIMATE LOCATION OF EXISTING OVERHEAD POWER / COMMUNICATION LINES
- X NEW 4' CHAIN-LINK FENCE
- X EXISTING 4' CHAIN-LINK FENCE TO REMAIN
- X EXISTING 4' CHAIN-LINK FENCE TO BE REMOVED
- SD NEW STORM DRAIN LINE
- NEW CATCH BASIN INLET



**HORIZONTAL & VERTICAL CONTROL BENCH MARK**

ID	DESCRIPTION	NORTHING	EASTING	ELEVATION
#4	3/4" ID PIPE	493134.39'	3327099.76'	2869.20'



DESCHUTES COUNTY  
**C AVENUE: 6TH ST TO US 97**  
 CONSTRUCTION PLAN STA. 9+00 - 11+00  
 TERREBONNE, OREGON

REVISIONS:

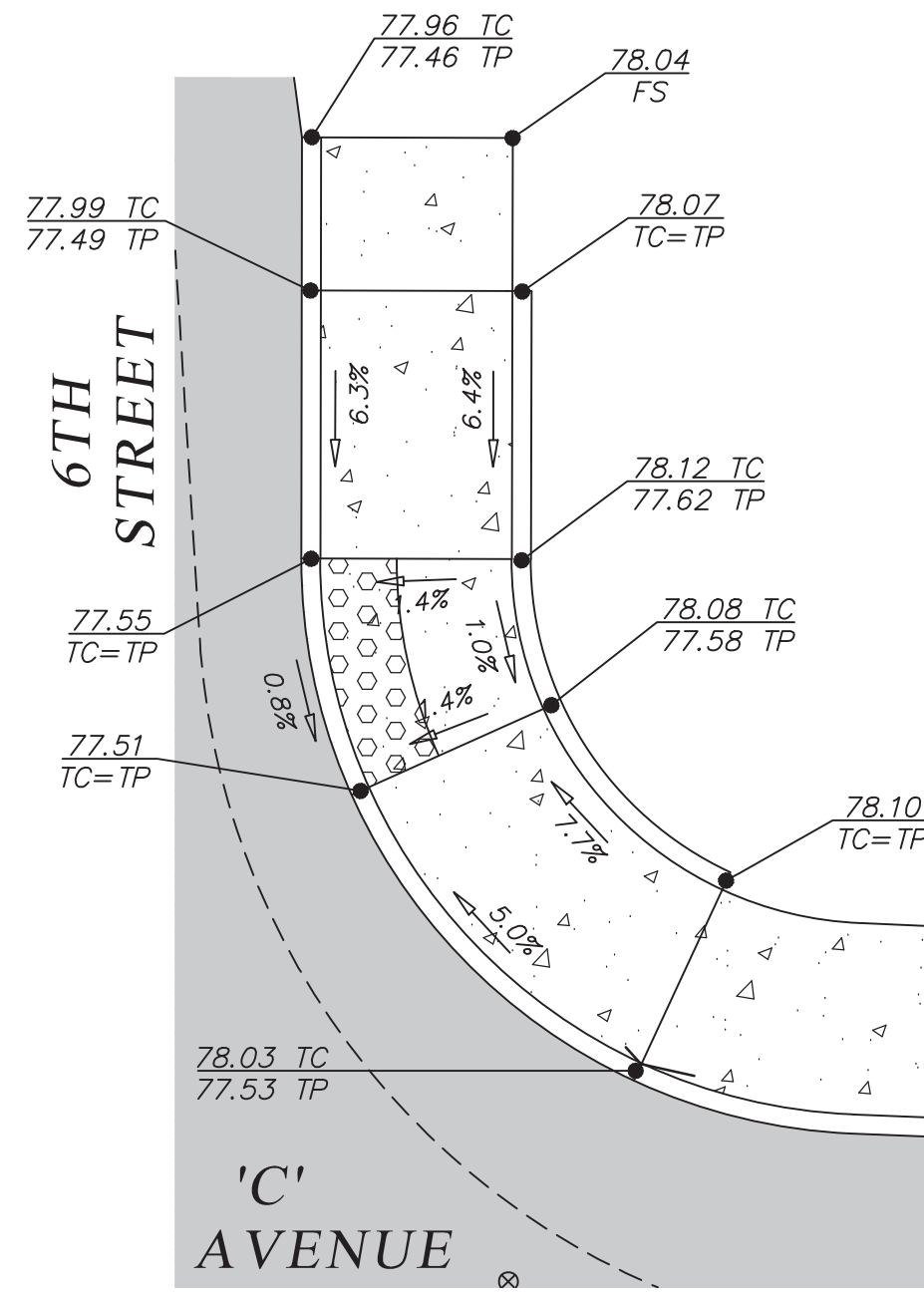


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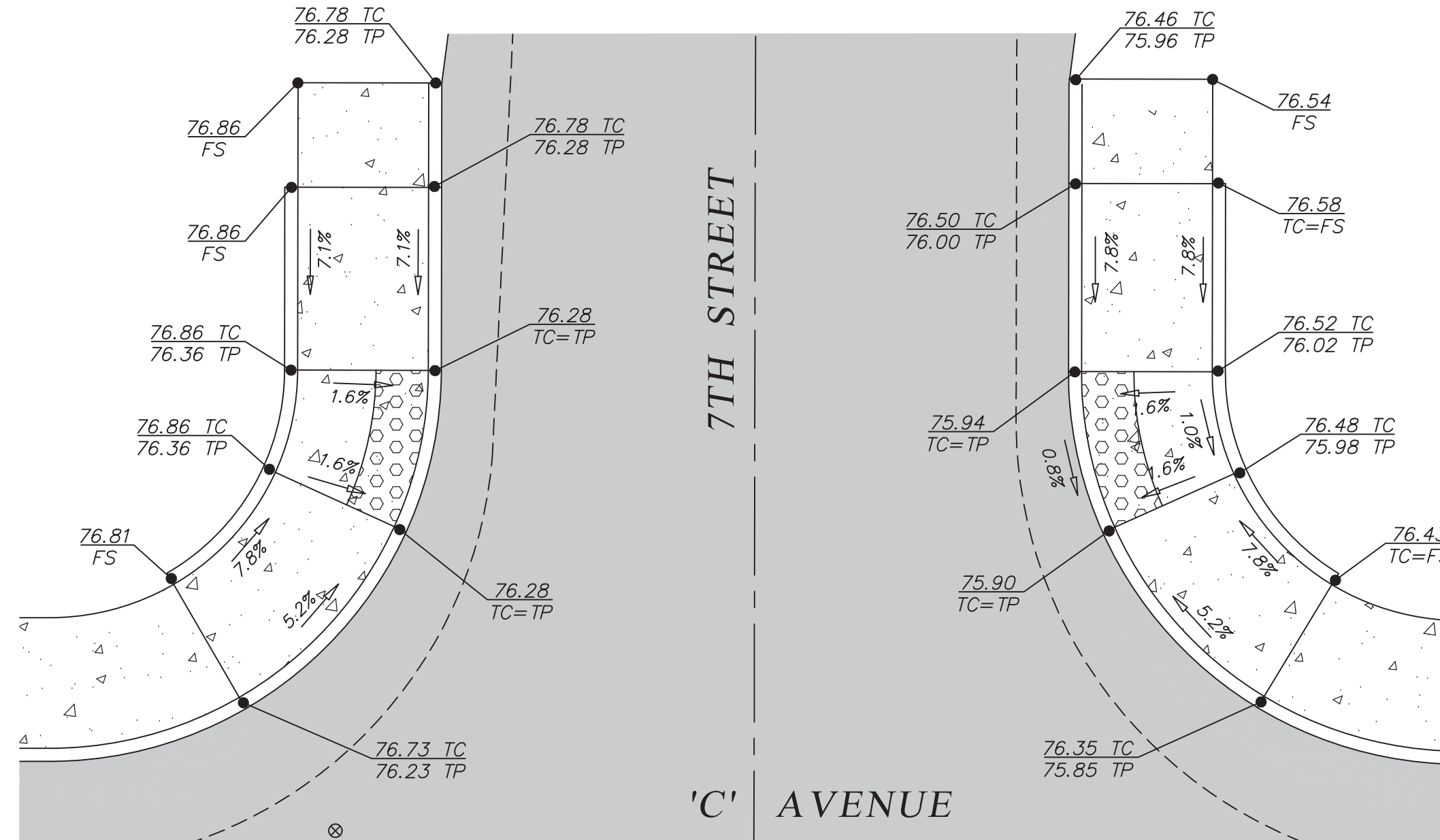
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 BAR EQUALS ONE INCH ON ORIGINAL DRAWING

SHEET:  
**C4.0**  
 HWA # 180703

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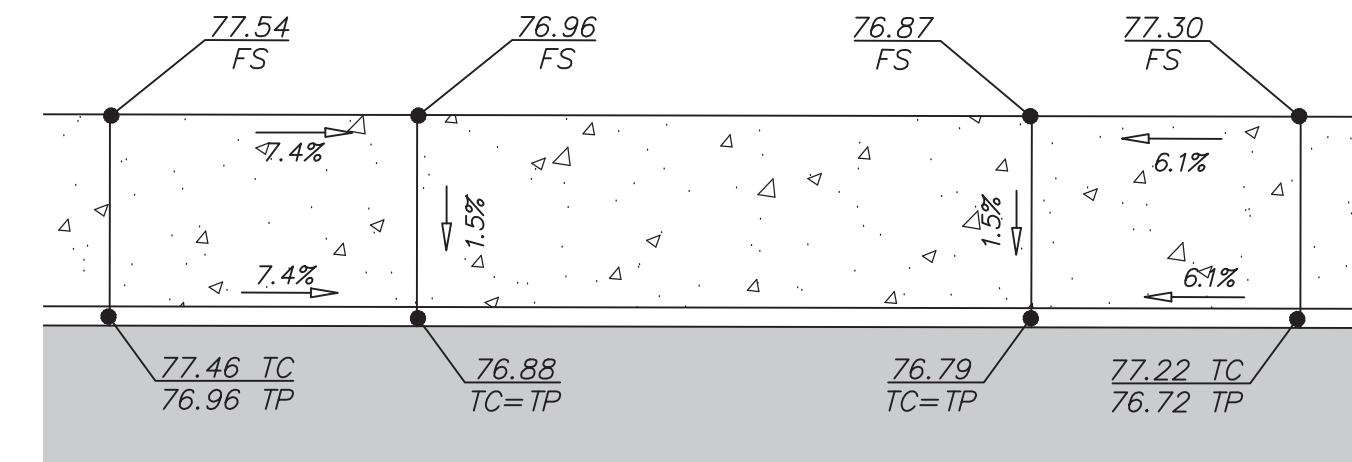
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C5.0 SCALE: 1" = 5'



2 RAMP GRADING DETAIL  
C5.0 SCALE: 1" = 5'

GRADING LEGEND

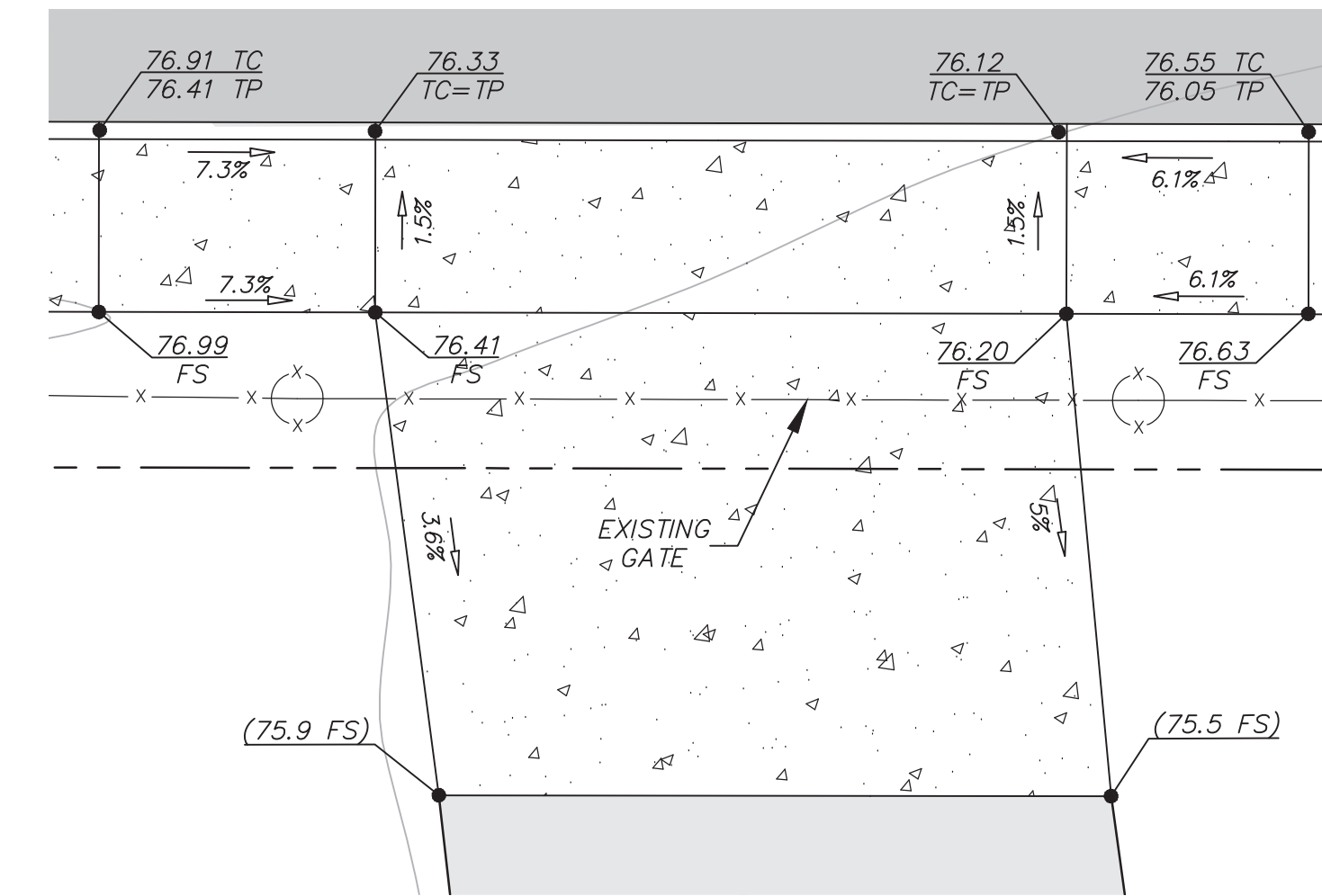
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07.75 TP PROPOSED SPOT ELEVATION (ADD 2800)
- (08.3 TC)  
(08.0 TP) APPROXIMATE EXISTING SPOT ELEVATION (ADD 2800)
- ← 1.0% APPROXIMATE GRADE
- TC TOP OF CURB
- TP TOP OF PAVEMENT
- FS FINISH SURFACE
- MATCH MATCH EXISTING ELEVATIONS AT JOIN LOCATIONS



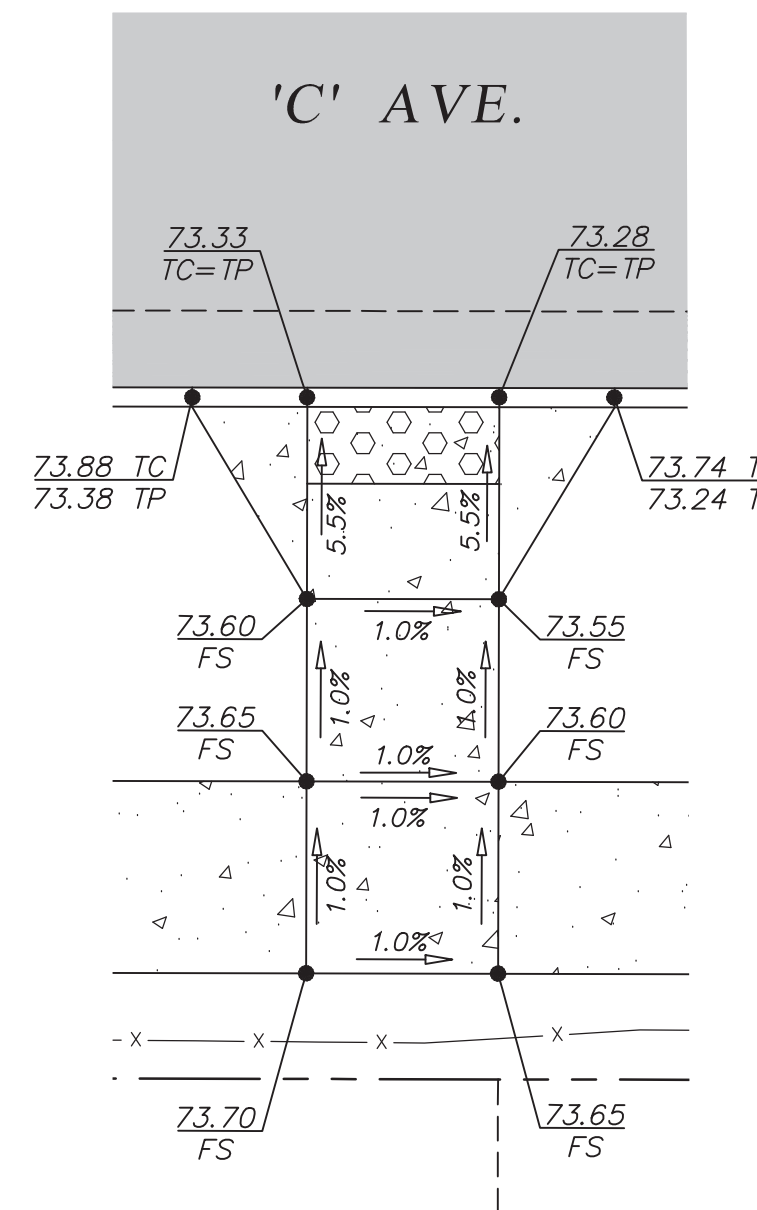
3 DRIVEWAY GRADING DETAIL  
C5.0 SCALE: 1" = 5'



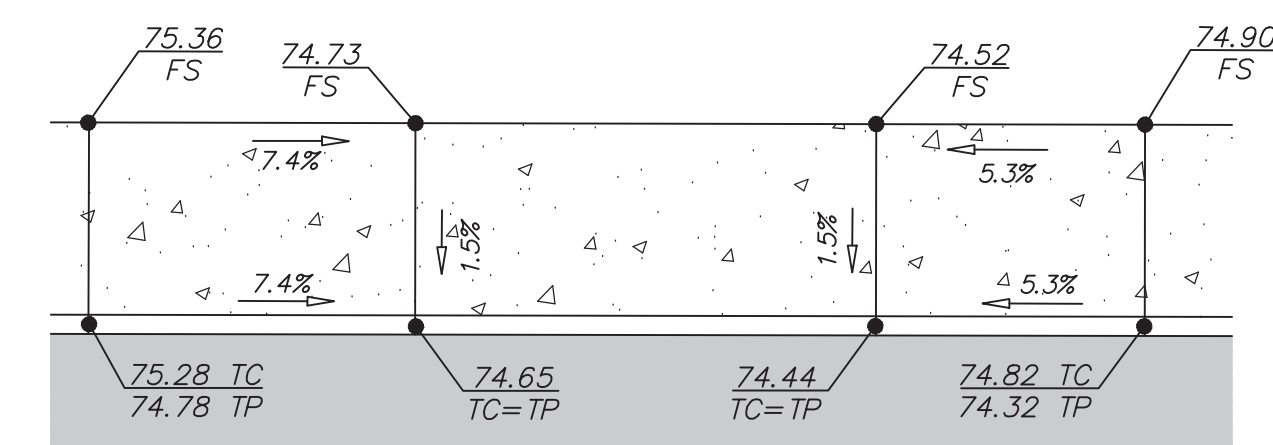
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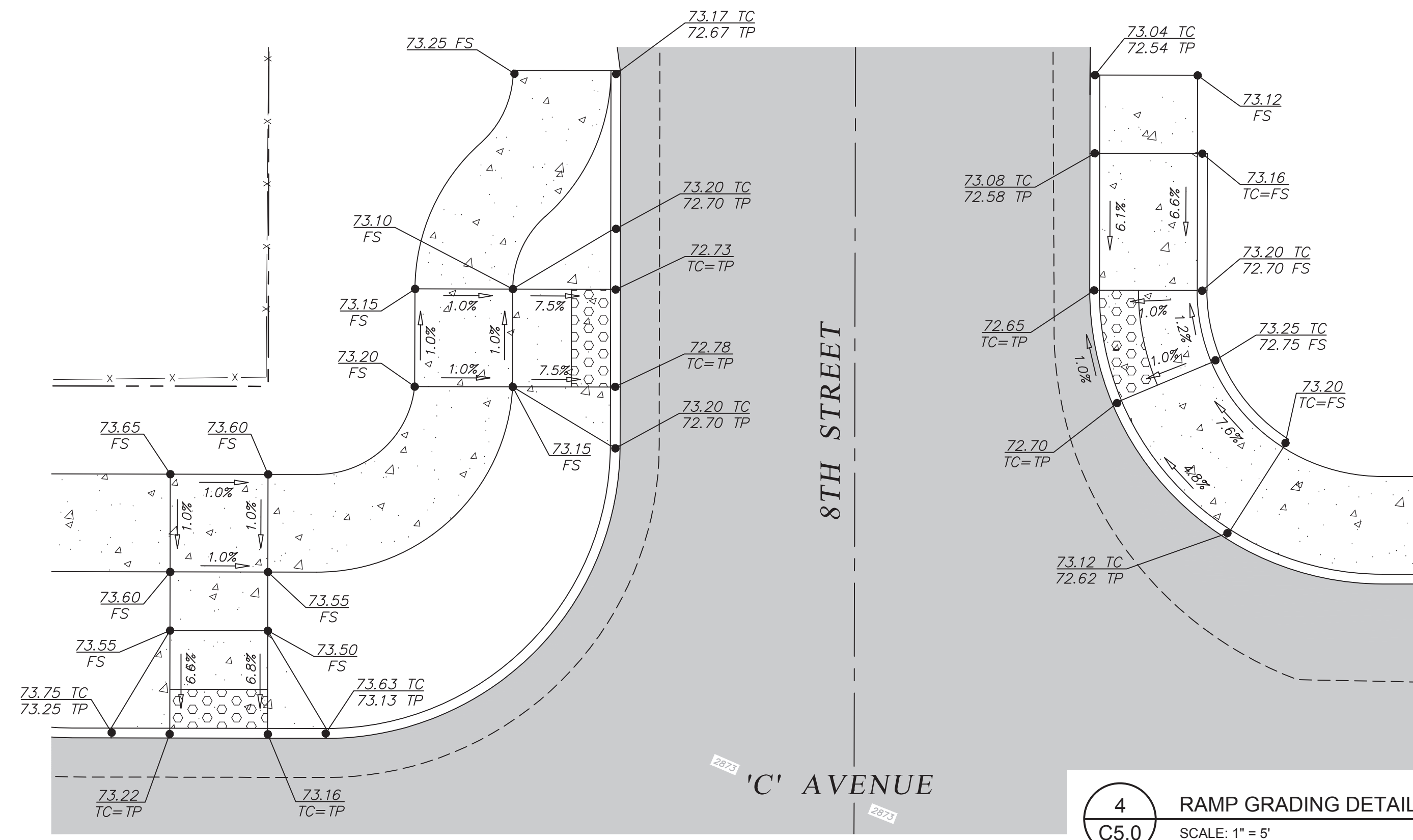
6 DRIVEWAY GRADING DETAIL  
C5.0 SCALE: 1" = 5'



5 RAMP GRADING DETAIL  
C5.0 SCALE: 1" = 5'



7 DRIVEWAY GRADING DETAIL  
C5.0 SCALE: 1" = 5'



4 RAMP GRADING DETAIL  
C5.0 SCALE: 1" = 5'



Renewal Date: 12/31/2020

DESCHUTES COUNTY  
C AVENUE: 6TH ST TO US 97  
GRADING DETAILS  
TERREBONNE, OREGON

REVISIONS:



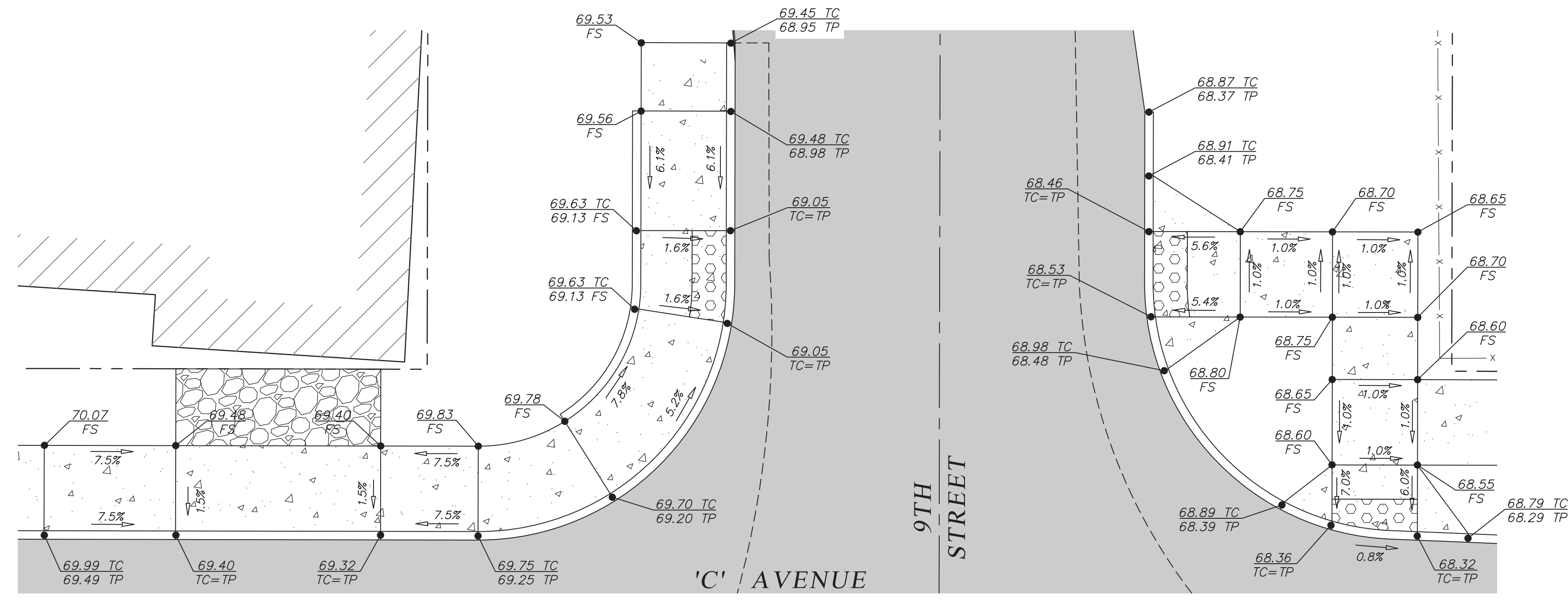
DESIGNED BY: BAP  
DRAWN BY: CAB  
CHECKED BY: BAP  
SCALE: 1" = 5'  
FILE: 180703-CD-00.dwg  
DATE: 3/18/2019

VERIFY SCALES  
0 1" BAR EQUALS ONE INCH ON ORIGINAL DRAWING

SHEET: C5.0

HWA # 180703

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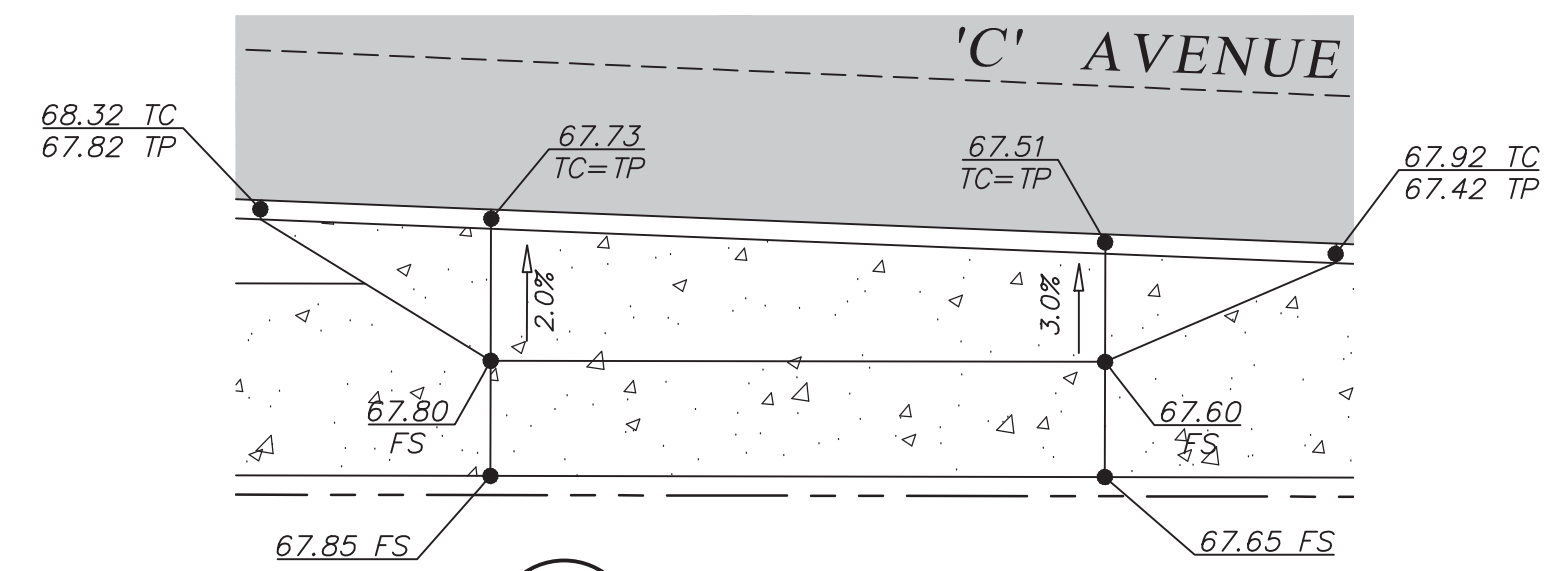


GRADING LEGEND

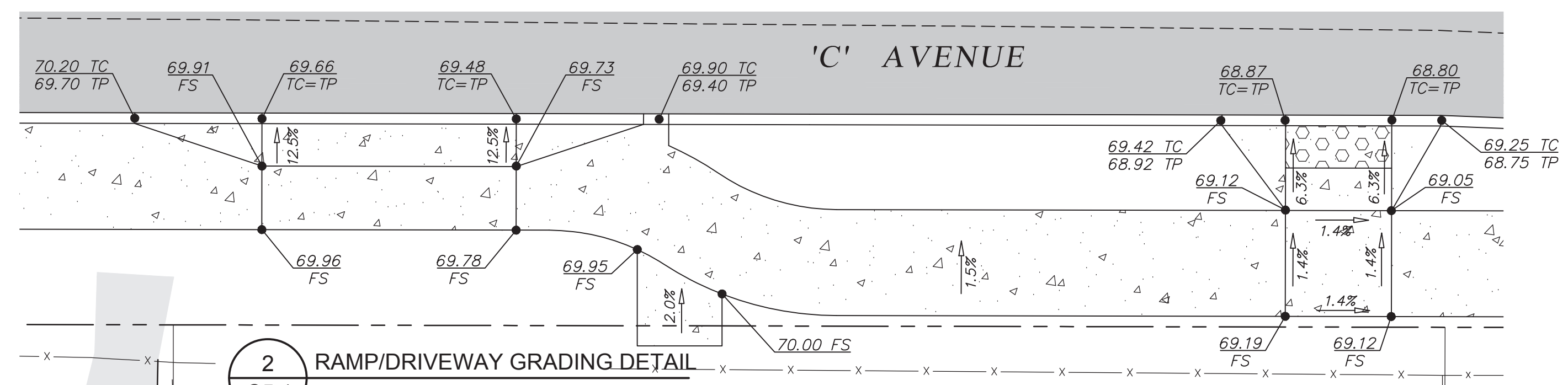
- 08.25 TC  
07.75 TP
  - (08.3 TC)  
(08.0 TP)
  - 1.0%
  - TC
  - TP
  - FS
  - MATCH
- PROPOSED SPOT ELEVATION (ADD 2800)  
APPROXIMATE EXISTING SPOT ELEVATION (ADD 2800)  
APPROXIMATE GRADE  
TOP OF CURB  
TOP OF PAVEMENT  
FINISH SURFACE  
MATCH EXISTING ELEVATIONS AT JOIN LOCATIONS



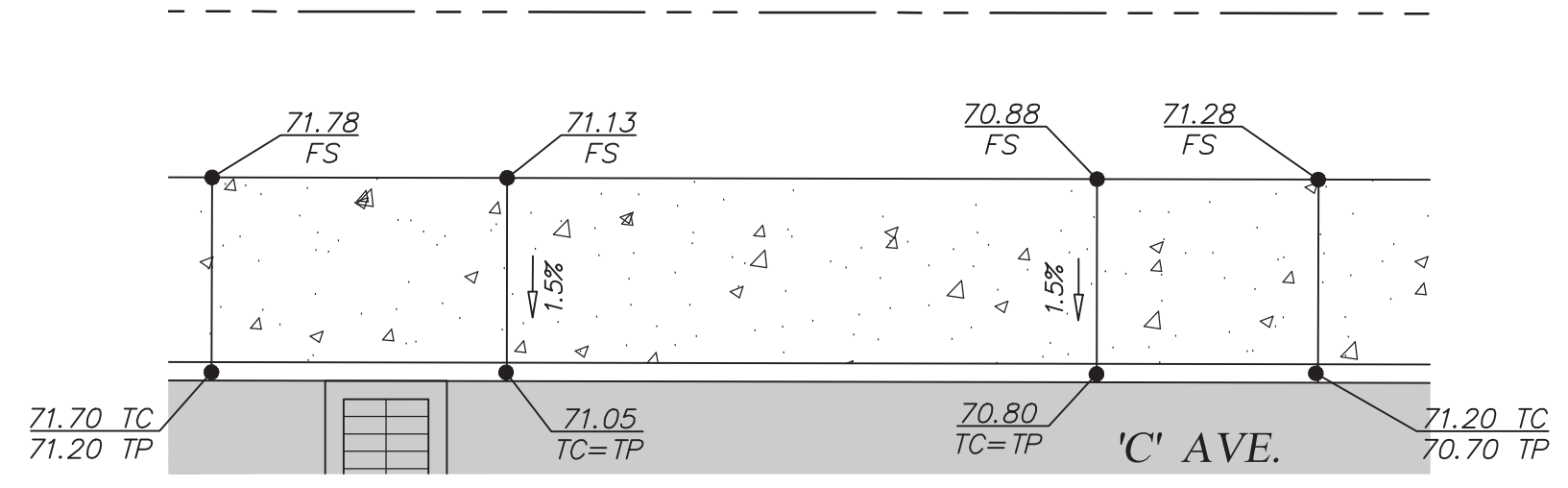
1 RAMP/DRIVEWAY GRADING DETAIL  
C5.1 SCALE: 1" = 5"



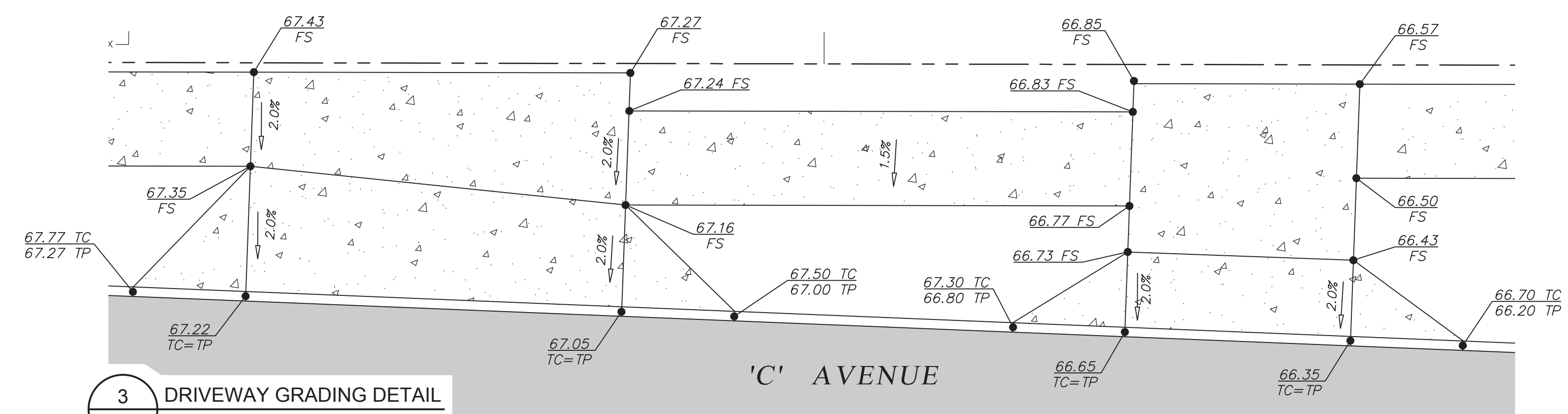
4 DRIVEWAY GRADING DETAIL  
C5.1 SCALE: 1" = 5"



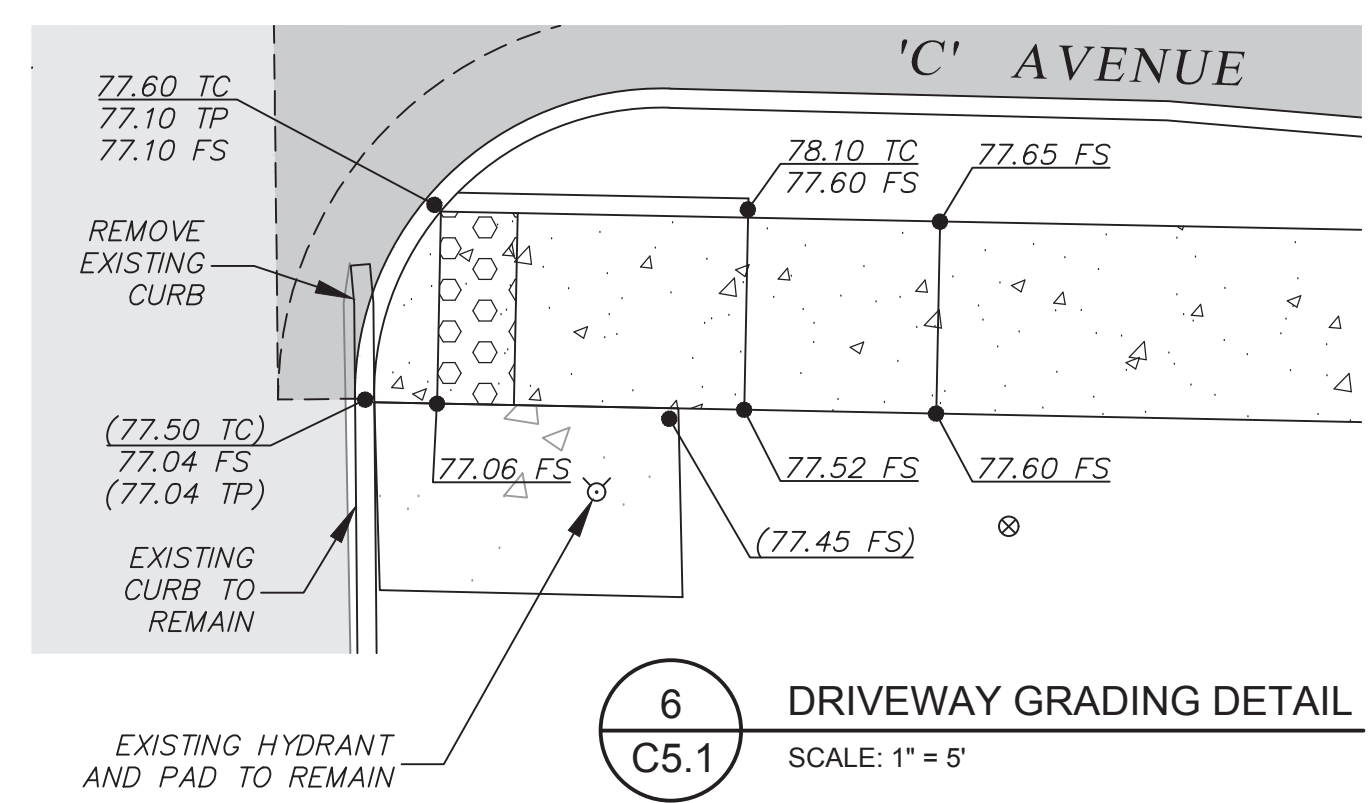
2 RAMP/DRIVEWAY GRADING DETAIL  
C5.1 SCALE: 1" = 5"



5 DRIVEWAY GRADING DETAIL  
C5.1 SCALE: 1" = 5"



3 DRIVEWAY GRADING DETAIL  
C5.1 SCALE: 1" = 5"



6 DRIVEWAY GRADING DETAIL  
C5.1 SCALE: 1" = 5"



Renewal Date: 12/31/2020

DESCHUTES COUNTY  
C AVENUE: 6TH ST TO US 97  
GRADING DETAILS  
TERREBONNE, OREGON

REVISIONS:



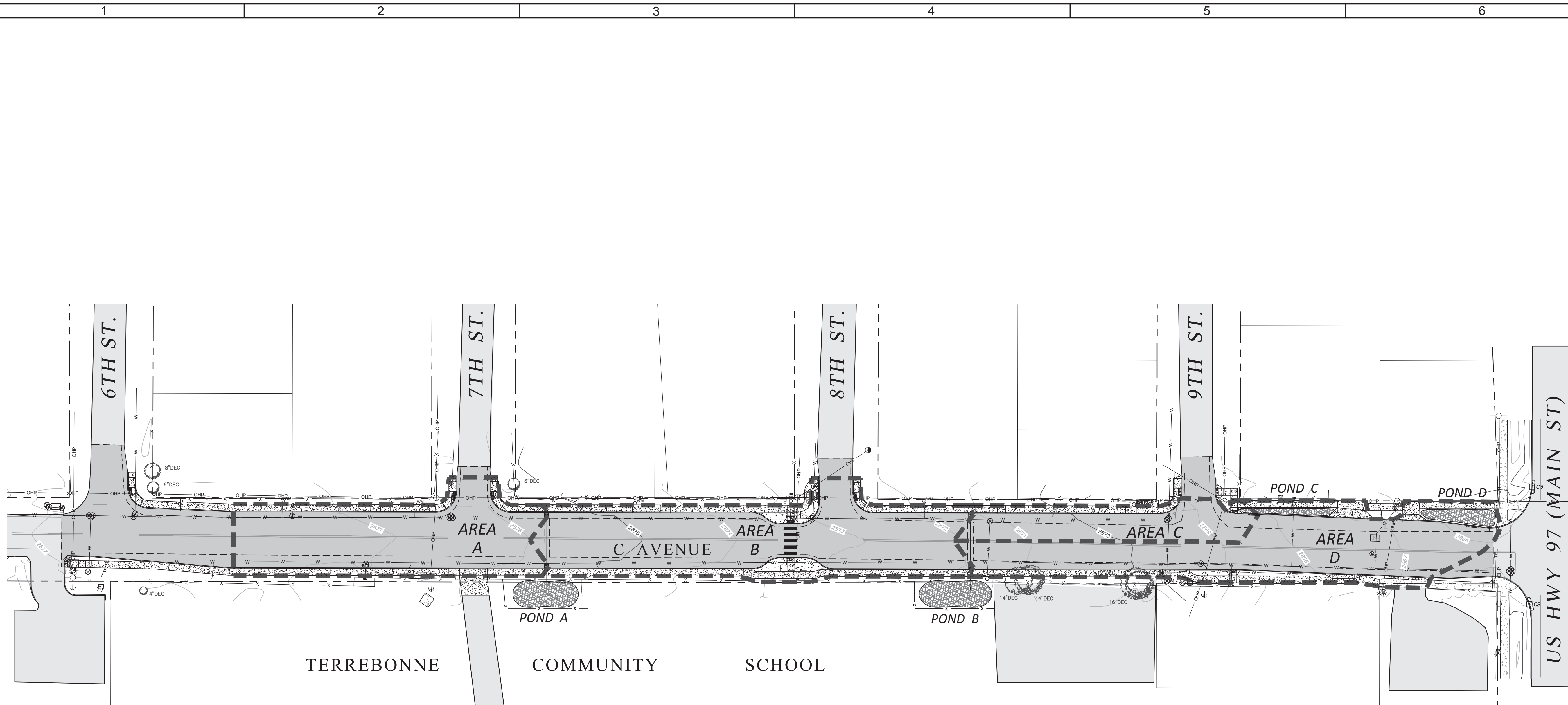
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DRAWN BY: CAB  
CHECKED BY: BAP  
FILE: 180703-CD-00.dwg  
DATE: 3/18/2019

VERIFY SCALES  
0 1" BAR EQUALS ONE INCH ON ORIGINAL DRAWING  
SHEET:

C5.1

HWA # 180703

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**DRAINAGE BASIN DESIGN DATA**

TRIBUTARY AREA	TRIBUTARY AREA SIZE (SQ. FT.)	25-YR STORM PEAK RUNOFF RATE (CFS)	25-YR STORM TOTAL RUNOFF VOLUME (CU. FT.)	REQUIRED INFILTRATION SWALE CAPACITY (CU. FT. VOIDS)	PROVIDED INFILTRATION SWALE CAPACITY (CU. FT. VOIDS)
A	12,000	0.33	1480	590	1010
B	15,500	0.43	1910	790	1150
C	5200	0.15	650	220	300
D	14,900	0.41	1840	820	990

**ASSUMPTIONS AND METHODOLOGY:**  
 25-YR, 24-HR PRECIPITATION INTENSITY = 1.8 INCHES  
 TAKEN FROM NOAA ATLAS 2 - VOLUME X (FIGURE 28)  
 STORM TYPE = TYPE I  
 TIME OF CONCENTRATION T<sub>c</sub> = 5 MIN  
 CURVE NUMBER = 98  
 DESIGN EXFILTRATION RATE = 2"/HOUR  
 SWALE ROCK GALLERY VOID SPACE = 40%

PROGRAM USED FOR PEAK RUNOFF RATES AND VOLUMES:  
 HYDRAFLOW HYDROGRAPHS EXTENSION FOR AUTOCAD CIVIL 3D 2015

**TESTING REQUIREMENTS:**  
 CONTRACTOR SHALL CONDUCT PERFORMANCE TESTING, PER COSM STANDARDS AND SPECIFICATIONS APPENDIX 4B, TO DETERMINE AND VERIFY AN ACTUAL EXFILTRATION RATE OF AT LEAST 2 INCHES PER HOUR

ENGINEER SHALL SUBMIT A GRADING AND DRAINAGE CERTIFICATION PRIOR TO FINAL ACCEPTANCE THAT ALL DRAINAGE INFRASTRUCTURE WAS CONSTRUCTED AND TESTED IN CONFORMANCE WITH THE PLANS.



Renewal Date: 12/31/2020

DESCHUTES COUNTY  
**C AVENUE: 6TH ST TO US 97**  
 STORMWATER  
 TERREBONNE, OREGON

REVISIONS:



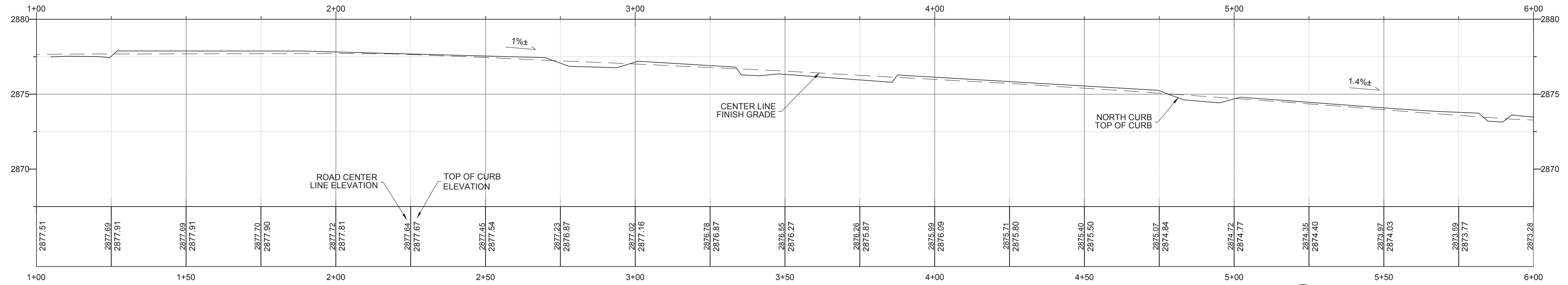
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 CHECKED BY: BAP  
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 DATE: 3/18/2019

VERIFY SCALES  
 0 1" BAR EQUALS ONE INCH ON ORIGINAL DRAWING

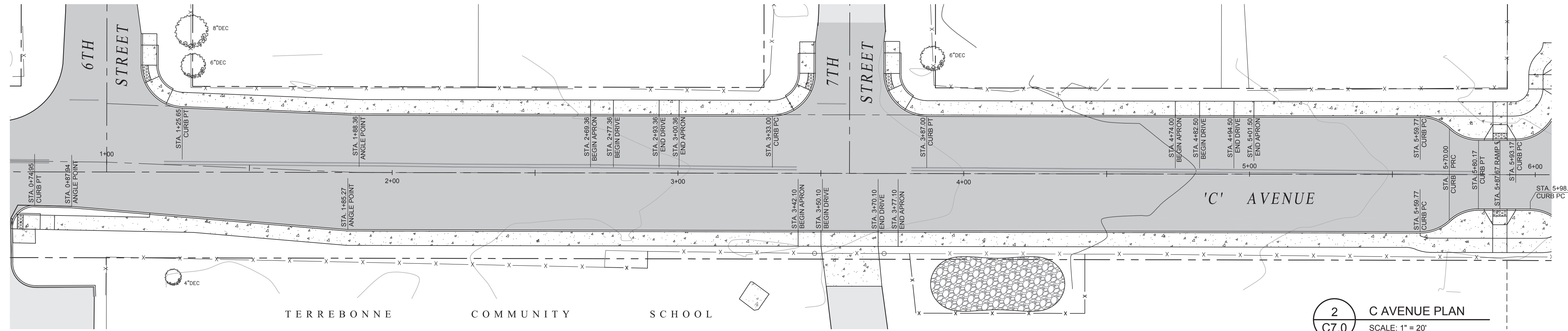
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 HWA # 180703



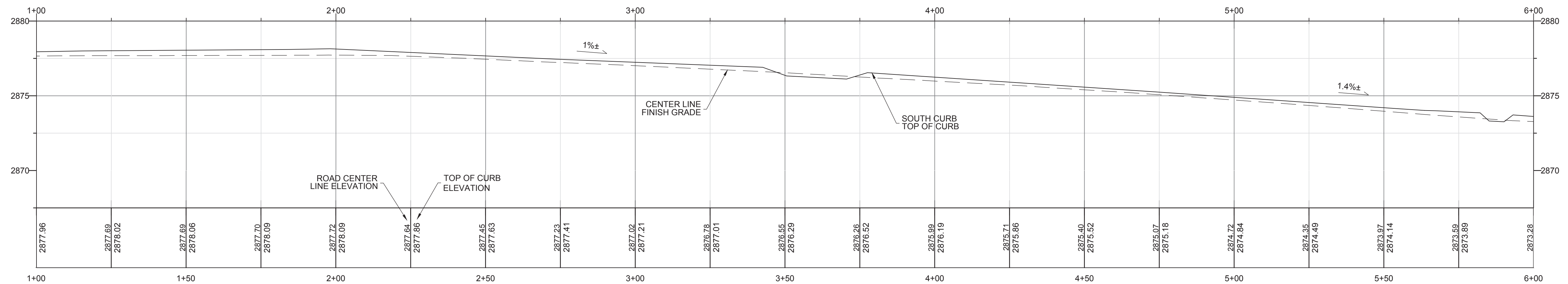
Carla S:\Land Projects\180703 Terrebonne Sidewalk\DWG\180703 - CD-00.dwg Mon Mar 18, 2019 - 4:03pm



**1**  
C7.0 C AVENUE PROFILE - NORTH CURB  
SCALE: H: 1" = 20' V: 1" = 4'



**2**  
C7.0 C AVENUE PLAN  
SCALE: 1" = 20'



**3**  
C7.0 C AVENUE PROFILE - SOUTH CURB  
SCALE: H: 1" = 20' V: 1" = 4'



Renewal Date: 12/31/2020

DESCHUTES COUNTY  
**C AVENUE: 6TH ST TO US 97**  
CURB PROFILES STA. 1+00 - 6+00  
TERREBONNE, OREGON

REVISIONS:




DESIGNED BY: BAP  
DRAWN BY: CAB  
CHECKED BY: BAP  
SCALE: VARIES  
FILE: 180703\_CD-00.dwg  
DATE: 3/18/2019

VERIFY SCALES  
0 1" = 1"  
BAR EQUALS ONE INCH ON ORIGINAL DRAWING

SHEET:  
**C7.0**  
HWA # 180703

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Renewal Date: 12/31/2020

DESCHUTES COUNTY  
**C AVENUE: 6TH ST TO US 97**  
 CURB PROFILES STA. 6+00 - 11+00  
 TERREBONNE, OREGON

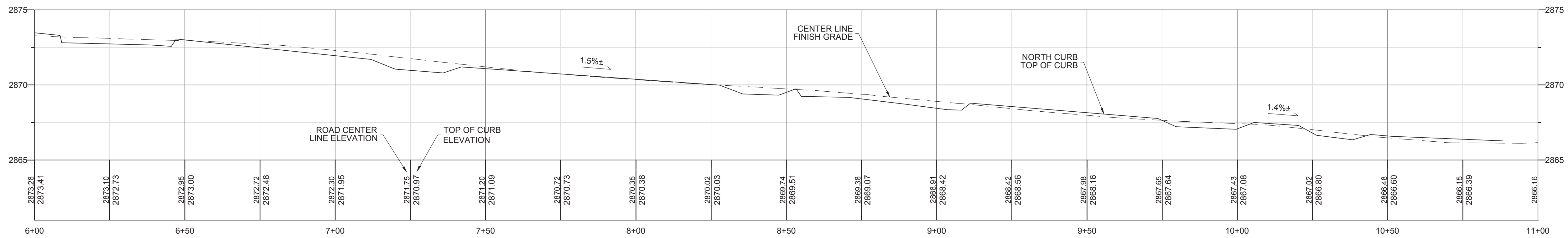
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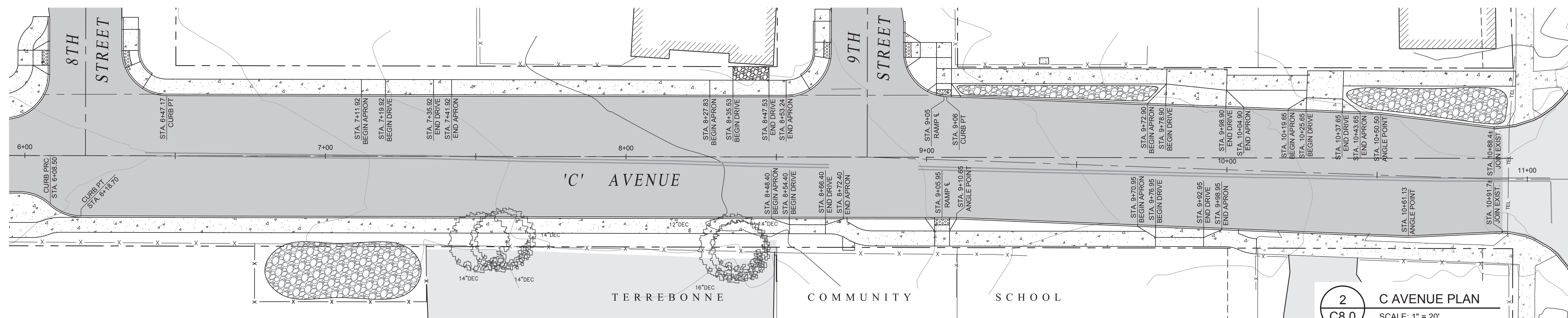
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 DATE: 3/18/2019

VERIFY SCALES  
 0 1" = 1"  
 BAR EQUALS ONE INCH ON ORIGINAL DRAWING

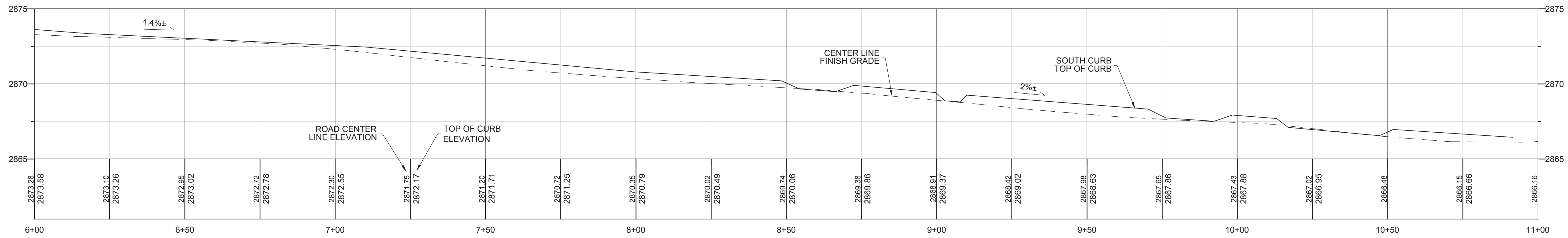
SHEET:  
**C8.0**  
 HWA # 180703



**1** C AVENUE PROFILE - NORTH CURB  
 C8.0 SCALE: H: 1" = 20' V: 1" = 4'



**2** C AVENUE PLAN  
 C8.0 SCALE: 1" = 20'



**3** C AVENUE PROFILE - SOUTH CURB  
 C8.0 SCALE: H: 1" = 20' V: 1" = 4'