

**BENCHMARKS:**  
 "□" Cut in middle of N headwall of RCBC on 21st St. North. 1004.3' W & 22.1' N of SE Cor., SE 1/4, Sec. 2, T-27-S, R-2-E. Elev. = 173.23 City Datum

RR spike in N. face of power pole 840.0' west of C.L. of Castle Rock and 48.7' south of C.L. of 21st St. N. Elev. = 182.03 City Datum

Valve Box Elev. = 173.50

Sta 0+60.00, Begin construction of 5" A.C. Pwmt. W/5" Reinf. Rock Base and 4' Sidewalk.

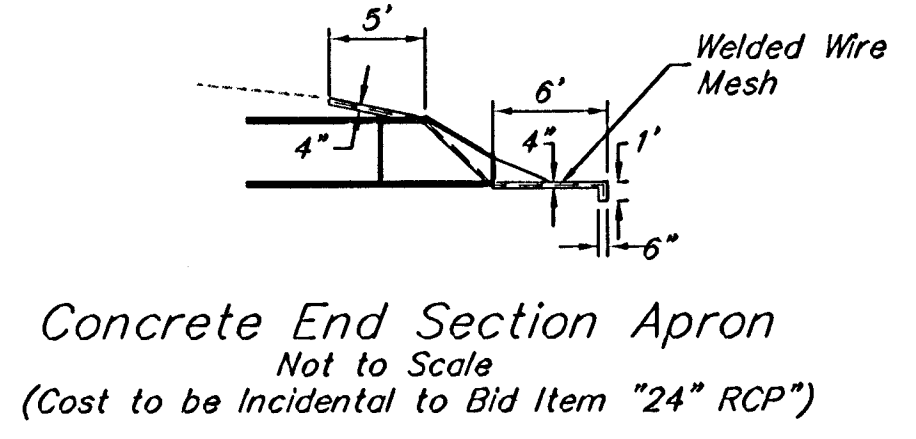
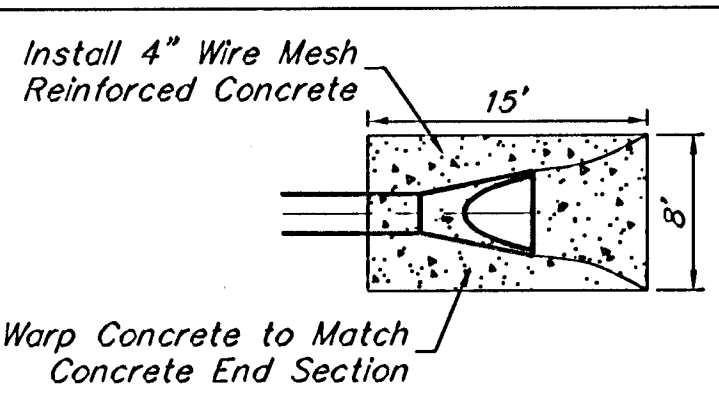
Saw, cut, remove and replace 2" existing pavement as shown. To be incidental to "Site Clearing & Restoration".

Install 100.0 L.F. 24" RCP W/ end sections. Install Concrete End Section Apron (Both Ends). (See Detail, This Sheet)

Construct 5" A.C. Mat Pavement W/ 5" Reinf. Rock Base.

Regrade ditch to ensure positive drainage in 70', both sides

Sta 0+62.00, 40' Rt. Install Metro D3 (SNS) Ass'y as per City specs. "21st St N (1400 E)" & "Castle Rock (2200 N)".



Curve #1A  
 Curve Data Based on Centerline  
 Rad. = 200' Delta = 10° 18' 17" Tangent = 18.03'  
 Arc = 35.97' L.C. = 35.92' Def/Ft. = 8.59443 Min.

Station	Arc	FACE CHORD LENGTHS	Def.	T. Def.
A	-	-	0'00"00"	0'00"00"
B	35.97'	37.36'	5'09"08"	5'09"08"

Curve #1B  
 Curve Data Based on Centerline  
 Rad. = 200' Delta = 10° 18' 17" Tangent = 18.03'  
 Arc = 35.97' L.C. = 35.92' Def/Ft. = 8.59443 Min.

Station	Arc	FACE CHORD LENGTHS	Def.	T. Def.
C	-	-	0'00"00"	0'00"00"
D	35.97'	37.36'	5'09"08"	5'09"08"

Curve #2A  
 Curve Data Based on Centerline  
 Rad. = 100' Delta = 12° 32' 40" Tangent = 10.55'  
 Arc = 21.02' L.C. = 20.98' Def/Ft. = 17.18998 Min.

Station	Arc	FACE CHORD LENGTHS	Def.	T. Def.
E	-	-	0'00"00"	0'00"00"
F	21.02'	19.30'	6'01"20"	6'01"20"

Curve #2B  
 Curve Data Based on Centerline  
 Rad. = 250' Delta = 8° 06' 15" Tangent = 17.71'  
 Arc = 35.36' L.C. = 35.33' Def/Ft. = 6.87571 Min.

Station	Arc	FACE CHORD LENGTHS	Def.	T. Def.
G	-	-	0'00"00"	0'00"00"
H	35.36'	34.20'	4'03"07"	4'03"07"

Curve #3  
 Curve Data Based on Centerline  
 Rad. = 350' Delta = 47° 33' 52" Tangent = 154.24'  
 Arc = 290.56' L.C. = 282.28' Def/Ft. = 4.91098 Min.

Station	Arc	FACE CHORD LENGTHS	Def.	T. Def.
1+75.00	-	-	0'00"00"	0'00"00"
2+00.00	25.00'	23.21'	26.78'	2'02"46"
2+05.83	5.83'	5.41'	6.25'	0'28"58"
2+47.30	41.47'	38.48'	44.41'	3'23"59"
2+88.77	41.47'	38.48'	44.41'	3'23"59"
3+00.00	11.23'	10.43'	12.03'	0'55"09"
3+25.00	25.00'	23.21'	26.78'	2'02"46"
3+50.00	25.00'	23.21'	26.78'	2'02"46"
3+75.00	25.00'	23.21'	26.78'	2'02"46"
4+00.00	25.00'	23.21'	26.78'	2'02"46"
4+25.00	25.00'	23.21'	26.78'	2'02"46"
4+50.00	25.00'	23.21'	26.78'	2'02"46"
4+65.56	15.56'	14.45'	16.67'	1'16"25"

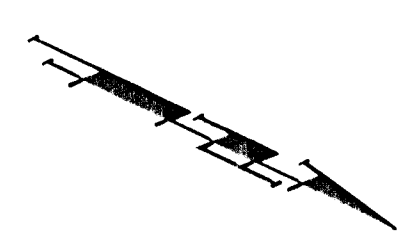
P.V.I. Elev. = 173.90  
 40.38' V.C.

P.V.I. Elev. = 175.40  
 47.58' V.C.

P.V.I. Elev. = 175.40  
 52.42' V.C.

P.V.I. Elev. = 173.90  
 73.38' V.C.

NOTE: ROLL TYPE CURB & GUTTER TO BE CONSTRUCTED ON THE PAVEMENT SHOWN ON THIS SHEET. TOP OF CURB ELEVATIONS ARE GIVEN FOR FULL HEIGHT CURB.



Scale: 1" = 20'  
 • = Iron

**Baughman** ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE

PROJECT NUMBER: 47283973

DESIGN: NBW  
 DRAWN: TMS  
 APPROVED: DATE: 05/04

SCALE: Noted  
 SHEET: 7 OF 30

Project: KRUG NORTH ADDITION - PHASE I  
 Castle Rock STA 0+00 TO STA 4+65.56

KrugNorth/Str1 0407-E848