BENCHMARKS:

BM #1: Benchmark on top of north 48" headwall in Reserve "B" between Lots 18–19, Block B, Falcon Falls 3rd Addition.
Elev. = 1349.35 NGVD29

BM #2: Benchmark on top of north 48" headwall in Reserve "C" north of the NE corner of Lots 30, Block C, Falcon Falls 3rd Addition.
Elev. = 1343.63 NGVD29

Baseline = Peregrine

Manhole Top
Elev. = 1351.32

Sta 0+42.27, 4' Lt.&Rt. Relocate type 1 barricade w/ E.O.R. marker to Sta. 10+70.20.

Construct Concrete C & G, Comb. Type 2 (3–5/8")

Construct AC Pavement 5" (3" Bit Base) W/ Crushed Rock Base 5".

Manhole Top
Elev. = 1350.70

Install 40' Long Pipe, PVC 6" under pavement (for future irrigation purposes). Cap each end. Mark End of Pipes with Wooden Stake Painted Pink. Cost subsidiary to Pavement Cost.

Construct Inlet Hookups & Curb Inlet Protection, both sides (See detail, sheet 14) Adjust inlet top to match proposed grade, both sides. To be bid as "Inlet Adjusted".

Valve Box
Elev. = 1350.20

Sta 0+40.27, Begin construction of AC Pavement 5" (3" Bit Base) W/ Crushed Rock Base 5" and 5' Wide Concrete Sidewalk 4". Saw cut, remove and replace 2' existing pavement as shown. To be incidental to "Site Restoration".

Construct 5' Wide Concrete Sidewalk 4"

Sta 3+93.92, 17.25' Rt. Install subdivision benchmark (Flat survey marker No. 8134–08 3" top diameter) in top of curb. Cost shall be incidental to L.F. Concrete C & G, Comb. Type 2 (3–5/8")

Valve Box
Elev. = 1350.70

P.V.I.
Elev. = 1350.05
No V.C.

P.V.I.
Elev. = 1350.50
No V.C.

P.V.I.
Elev. = 1351.40
40' V.C.

P.V.I.
Elev. = 1350.40
No V.C.

P.V.I.
Elev. = 1349.60
No V.C.

P.V.I.
Elev. = 1349.20
88.92' V.C.

P.V.I.
Elev. = 1350.10
No V.C.

P.V.I.
Elev. = 1350.50
No V.C.

P.V.I.
Elev. = 1351.40
40' V.C.

P.V.I.
Elev. = 1350.40
No V.C.

P.V.I.
Elev. = 1349.60
No V.C.

P.V.I.
Elev. = 1349.20
63.08' V.C.

P.V.I.
Elev. = 1349.70
No V.C.

P.V.I.
Elev. = 1349.70
No V.C.

20 0 20
• = Iron
Sta. 0+40.27
Sta. 1+20.00
Sta. 2+66.00
Sta. 3+93.92–PC
Sta. 4+47.00
Sta. 4+85.00
Sta. 5+51.95–PT
+0.745%
+0.564%
+0.616%
–0.782%
–1.288%
–0.899%
+0.638%
+0.502%
–1.816%
25
24
23
22
21
20
19
18
35
36
37
38
39
B
C
Res. "B"
Res. "C"
PEREGRINE
FALCON FALLS
3RD ADDITION
Existing 8" Sewer
15' Util. Esmt.
Proposed 8" Sewer
10' Util. Esmt.
Existing 8" Water
Proposed 8" Water
Existing 5' Walk
Proposed 5' Walk
Existing Pvm't
Proposed Pvm't
34' Fc–Fc
64' R/W
Curve #1
R=132'
R=117'
R=100'
R=83'
R=68'
HP
LP
V1
V2
Existing 48" SWS
Match Line
Walk
0
1
2
3
4
5
1340
1345

Subdivision Bench Marks		
Street & Station	Location Description	Elevation
Peregrine 3+93.92, 17.25' Rt.	Adjacent to Fire Hydrant near common lot corner of Lot 39, Block C and Res. "C".	

WATER VALVE LOCATION TABLE

VALVE NUMBER	STREET	BASELINE STATION	OFFSET DISTANCE	OFFSET DIRECTION
V1	Peregrine	0+40.27	25.00'	Rt.
V2	Peregrine	3+93.92	25.00'	Rt.

Paving contractor will be responsible to operate all water valves on the project, in the presence of the inspector, to ensure accessibility to the valves, and that all valves (except blowoffs) are left in the "ON" position when the project is completed.

Curve #1
Curve Data Based on Centerline
Rad. = 100' Delta = 90°32'54" Tangent = 100.96'
Arc = 158.03' L.C. = 142.10' Def./Ft. = 17.18946 Min.

		Face Chord Lengths			
Station	**Arc**	**8' Left**	**8' Right**	**Defl.**	**Total Defl.**
3+93.92	–	–	–	0°00'00"	0°00'00"
4+00.00	6.08'	7.60'	4.56'	1°44'31"	1°44'31"
4+25.00	25.00'	31.17'	18.70'	7°09'44"	8°54'15"
4+50.00	25.00'	31.17'	18.70'	7°09'44"	16°03'59"
4+75.00	25.00'	31.17'	18.70'	7°09'44"	23°13'43"
5+00.00	25.00'	31.17'	18.70'	7°09'44"	30°23'27"
5+25.00	25.00'	31.17'	18.70'	7°09'45"	37°33'12"
5+50.00	25.00'	31.17'	18.70'	7°09'44"	44°42'56"
5+51.95	1.95'	2.44'	1.46'	0°33'31"	45°16'27"

NOTE: ROLL TYPE CURB & GUTTER (TYPE 2) TO BE CONSTRUCTED ON THE PAVEMENT SHOWN ON THIS SHEET. TOP OF CURB ELEVATIONS ARE GIVEN FOR FULL HEIGHT CURB (TYPE 4).

Baughman
Baughman Company, P.A.
315 Ellis St. Wichita, KS 67211 P 316-262-7271 F 316-262-0149
ENGINEERING | SURVEYING | PLANNING | LANDSCAPE ARCHITECTURE
Design: AEG Drawn: TMS Approved: Date: 05/19
File: StrSWS.dwg

FALCON FALLS 3RD ADD. PH. 3B
PEREGRINE
STREET IMPROVEMENTS

REVISIONS:

SHEET 2 OF 22