

**KEY**

SOLID

PERFORATED

PERFORATED 6" DIA. DRAWDOWN C5

**STUB INFORMATION**

PIECE	STUB INVERT	SYSTEM INVERT
240 STUB B2	592.76	592.26
120 STUB C2	592.24	592.26

**RISER INFORMATION**

PIECE	RIM ELEV.	SYSTEM INVERT
360 RISER C4	603.00	592.26
360 RISER B3	601.00	592.26

**WEIR PLATE C3 DETAIL**

WEIR = 592.26'  
INVERT = 592.26'

**ASSEMBLY**

SCALE: 1" = 5'

PIPE STORAGE = 1,188 CF  
STRUCTURAL BACKFILL STORAGE: 233 CF  
TOTAL STORAGE PROVIDED: 1421 CF

LOADING: 100  
PIPE INV. = 592.26'

**CONTECH ENGINEERED SOLUTIONS LLC**  
11815 NE Shawnee Village Drive, Portland, OR 97220  
www.conteches.com

**CONTECH CMP DETENTION SYSTEMS**  
PROPOSAL

72"Ø UNDERGROUND DETENTION SYSTEM - 621186-020  
FRONTIER INTEGRATED HEALTH CENTER  
SAINT CHARLES, MO  
SITE DESIGNATION: CMP SYSTEM

DATE: 11/11/19  
BY: NUC  
CHECKED: NUC  
DATE: 11/11/19  
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**REINFORCING TABLE**

Ø CMP RISER	A	B	Ø REINFORCING	"BEARING PRESSURE (PSF)
24"	4" x 4"	20"	#5 @ 12" OC HW	2,500
30"	4" x 4"	30"	#5 @ 12" OC HW	1,875
36"	4" x 4"	30"	#5 @ 12" OC HW	2,500
42"	4" x 4"	44"	#5 @ 12" OC HW	1,875
48"	4" x 4"	50"	#5 @ 12" OC HW	1,375
54"	4" x 4"	50"	#5 @ 12" OC HW	1,375

**CONSTRUCTION LOADING DIAGRAM**

NOT TO SCALE

**ACCESS CASTING NOT SUPPLIED BY CONTECH**

**REINFORCING TABLE**

**MANHOLE CAP DETAIL**

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**TYPICAL SECTION VIEW**

NOT TO SCALE

**NOTE:**  
BEDDING MATERIAL TO BE 6" OF ASTM #67 STONE

**EXFILTRATION AREA**

STANDARD PERFORATION PATTERNS

PIPE	CORRUIGATION PATTERN	ULTRA FLO
24"Ø	3" x 1"	
30"Ø	5" x 1"	
36"Ø	7" x 1"	

**TYPICAL BACKFILL DETAIL**

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**STANDARD LADDER DETAIL**

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**RISER LADDER DETAIL**

NOT TO SCALE

**FOUNDATION BEDDING PREPARATION**

**BACKFILL**

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**PLAIN END CMP RISER PIPE**

**2 2/3" x 1/2" RE-ROLLED END HEL-COR PIPE**

**CONNECTION DETAIL**

**12" RISER BAND DETAIL**

NOT TO SCALE

**H-12 HUGGER BAND DETAIL**

NOT TO SCALE

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**KEY**

1) RIGID OR FLEXIBLE PAVEMENT

2) GRANULAR ROAD BASE

3) 1/2" MIN. FOR DIAMETERS THROUGH 96" 1/2" MIN. FOR DIAMETERS FROM 100" AND LARGER MEASURED TO TOP OF RIGID OR BOTTOM OF FLEXIBLE PAVEMENT.

4) FREE DRAINING ANGULAR WASHED STONE 3/4" - 2" MIN. PARTICLE SIZE.

5) GRANULAR BEDDING, ROUGHLY SHAPED TO FIT THE BOTTOM OF PIPE, 4" - 6" IN DEPTH.

6) CONTECH C-40 OR C-45 NON-WOVEN GEOTEXTILE REQUIRED, WRAPPING TRENCH ONLY.

**FOUNDATION BEDDING PREPARATION**

**BACKFILL**

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**PROJECT TITLE**

**SITE PLAN**

**FRONTIER INTEGRATED HEALTH CENTER, INC**

St. Peters  
22 Richmond Center Court  
St. Peters, MO 65276  
Phone (636) 397-1211  
Fax (636) 397-1104  
www.prs8.com

PRF No. 82129.FRN.02R  
TASK 002

**Pickett Ray & Silver**  
Civil Engineering & Land Surveying  
Beyond Standard

**ENGINEERS AUTHORIZATION**

WILLIAM SCHEDT  
PROFESSIONAL ENGINEER LICENSE 2018007869

**STATE OF MISSOURI**  
WILLIAM SCHEDT  
PROFESSIONAL ENGINEER LICENSE 2018007869

WILL SCHEDT, P.E.  
PROFESSIONAL ENGINEER LICENSE 2018007869

**Developer / Owner Information**

RJO Enterprises Inc.  
2011 Highway K  
O'Fallon, Missouri 63366

**P-Z No.** 19-000007

**City No.** 19-002258

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City of O'Fallon Standard Notes and Details - Nov. 2017

\*\*\* 11/12/2019 IMPROVEMENT PLAN SUBMITTAL - NOT APPROVED \*\*\*