

STANDARD LEGEND (PLAN VIEW)

EXISTING	PROPOSED	DESCRIPTION
---	---	Centerline
---C/TV---	---C/TV---	Cable TV
---	---	Easement
---UE---	---UE---	Electric/Fiber Optic Line Buried
---OHE---	---OHE---	Electric Line Overhead
---X---	---X---	Fence Line
---	---	Gas Line
---	---	Property Line
---	---	Sanitary Sewer
---	---	Storm Sewer
---	---	Storm Culvert
---	---	Roof Drain
---	---	Telephone
---	---	Water Line
---	---	Building Line
---	---	Rail Road
---	---	Guard Rail
---	---	Tap of Bank
---	---	Tree Line
---	---	Retaining Wall
---	---	Tree - Conifer
---	---	Tree - Deciduous
---	---	Bush
---	---	GPS/Control Monument
---	---	Bench Mark
---	---	Bore Hole
---	---	Emergency Phone/Booth
---	---	Mailbox
---	---	Post/Bollard
---	---	Sign
---	---	Accessible Symbol
---	---	Park Bench
---	---	Spot Elevation

STANDARD LEGEND (PLAN VIEW)

EXISTING	PROPOSED	DESCRIPTION
⊙	⊙	Sanitary Sewer Manhole
○	○	Sanitary Cleanout
⊙	⊙	Septic Tank
⊙	⊙	Storm Sewer Manhole
⊙	⊙	Storm SO Inlet/JBox
⊙	⊙	Area Inlet
⊙	⊙	Utility Pole
⊙	⊙	Utility Pole Anchor
⊙	⊙	Street Light
⊙	⊙	Yard Light
⊙	⊙	Transformer
⊙	⊙	Electric Manhole
⊙	⊙	Electric Meter
⊙	⊙	Buried Electric Box
⊙	⊙	AC Compressor
⊙	⊙	Water Manhole/Valve Pit
⊙	⊙	Water Meter
⊙	⊙	Water Valve
⊙	⊙	Fire Hydrant
⊙	⊙	Gas Meter
⊙	⊙	Gas Valve
⊙	⊙	Liquid Propane Tank
⊙	⊙	Telephone Manhole
⊙	⊙	Telephone Pedestal
⊙	⊙	Buried Telephone Box

BOUNDARY SYMBOLS

⊙	Stone Marker
F+	Non-Standard Property Marker
F*	1/2" Property Iron
F*	5/8" OR Larger Property Iron
F*	Type A Monument
△	Right-of-Way Marker
○	Corner Post

STANDARD ABBREVIATIONS

Note: See the National CAD Standard for Abbreviations not Included Below

AASHTO	American Society of State Highway & Transportation Officials	EL/Elev	Elevation	OD	Outside Dimension
AC	Asbestos Cement/Asphaltic Concrete	EP/ES	Edge of Pavement/Shoulder	OHE	Overhead Electric
Acc	Accessible	Egn Sta	Equation Station	PC	Point of Curvature
ACI	American Concrete Institute	ESI	Engineer Supplemental Instruction	PI	Point of Intersection
Aggr	Aggregate	EX	Existing	PL	Property Line
Ah	Ahead	FD	Floor Drain/Foundation Drain	PP	Power Pole
Alt	Alternate	FDC	Fire Department Connection	PT	Point of Tangency
ASTM	American Society of Testing and Materials	Fdn	Foundation	PVC	Polyvinyl Chloride (Plastic)
AWG	American Wire Gauge	FES	Flared End Section	PCC	Portland Concrete Cement
AWWA	American Water Works Association	FF	Finish Floor Elevation	R	Radius
ADA	Americans with Disabilities Act	FG	Finish Grade	RCB/RCP	Reinforced Concrete Box/Pipe
AI	Area Inlet	FH	Fire Hydrant	RD	Roof Drain
BC	Back of Curb	FHWA	Federal Highway Administration	RT	Right
Bdry	Boundary	FL	Flow Line	ROW	Right of Way
Bh	Behind	FM	Factory Mutual	San	Sanitary
BM	Benchmark	Fnc	Fence	SI	International System of Units
BOW	Base of Wall	GL/GM/GV	Gas Line/Meter/Valve	SO	Side Opening
Ctrs	Center to Center	GV&B	Gate Valve & Box	SW	Sidewalk
CFS	Cubic Feet per Second	HDPE	High Density Polyethylene Pipe	Sta	Station
CI	Curb Inlet	HB	Hose Bibb	Stm	Steam
CIP	Cast-in-Place/Cast Iron Pipe	IBC	International Building Code	TBM	Temporary Benchmark
CL	Centerline	ID	Inside Dimension	Tele	Telephone
CMP	Corrugated Metal Pipe	JBox	Junction Box	TCE	Temporary Construction Easement
CMU	Concrete Masonry Unit	LF	Linear Feet	TOC	Top of Curb
CO	Cleanout	LIP	Leave in Place	TOF	Top of Footing
CP	Control Point/Concrete Pipe	LP	Light Pole	TOW	Top of Wall
CWL/CWR/CWS	Chilled Water Line/Return/Supply	Lt	Left	Typ	Typical
D	Depth	MC	Moisture Content	UE	Underground Electric/Fiber
DA	Drainage Area	MEP	Mechanical/Electrical/Plumbing	UL	Underwriters Laboratories
Dia	Diameter	ML	Match Line	UNO	Unless Noted Otherwise
DIP	Ductile Iron Pipe	MH	Manhole	VC	Vertical Curve
DS	Downspout/Disconnect Switch	MUTCD	Manual of Uniform Traffic Control Devices	VCP	Vitrified Clay Pipe
EL	Easement Line	MODOT	Missouri Department of Transportation	VPC	Vertical Point of Curvature
EW	Each Way	N	Northing	VPI	Vertical Point of Intersection
E	Easting	NTS	Not to Scale	VPT	Vertical Point of Tangency
EG	Existing Grade	o.c.	On Center	WL/WM	Water Line/Meter
		OSHA	Occupational Safety and Health Administration	WS	Wheel Stop
				WWF	Welded Wire Fabric

GENERAL NOTES

GENERAL NOTES:

- SOIL BORINGS:** No soil boring information has been included in the specifications. If the Contractor deems soils investigation necessary for use in preparing his bid, he shall do so at his own expense, and he shall be responsible for any and all permits, rights of entry, and restoration in accordance with the specifications.
- DEVIATIONS FROM PLANS OR SPECIFICATIONS:** Any deviations in the location or number of facilities noted for installation on these plans, or extension or rerouting of the utilities constructed under these plans, requires the written authorization of the Owner's Representative before proceeding. Items installed in conflict with the plans and specifications and without such approval will not be approved for payment.
- SITE ACCESS:** The Contractor shall provide access to the work at any time for the Owner, Engineer, and state or local officials.
- SAFETY:** Safety on the job is the sole responsibility of the Contractor. The Contractor is responsible to replace and maintain proper barricades and/or fences to prevent injury to his and other personnel and the public. The Contractor shall leave such barricades and/or fences in place at any time he is absent from the job site.
- All pavements, sidewalks, abandoned sewers, pipelines, excess earthwork, or other obstructions to construction that are removed, shall become the property of the Contractor unless specifically noted, and shall be disposed of by the Contractor in accordance with state regulation 10 CSR 80-2.010 (9)(A)1.
- The Contractor shall maintain all construction operations within easements and right-of-ways.
- The Contractor shall be responsible for the replacement of any property monuments (irons) removed or destroyed by his construction. Monuments being reset shall be placed by a surveyor, licensed to practice in the State of Missouri.
- The Contractor will remove and reset all existing city/county signs and mailboxes in conflict with the work.
- All disturbed areas shall be fertilized, seeded, and mulched in accordance with the contract documents.
- Locations of existing utilities are shown for information only and are not guaranteed to be either accurate or complete. It is the Contractor's responsibility to contact all utilities and obtain utility staking prior to construction. No utilities on private property are shown.
- Power poles, telephone poles, guy wires, and other utilities shall be relocated by owner of the utility unless noted otherwise.
- Unless otherwise noted all dimensions, coordinates, and spot elevations are to the back of curb, where applicable.
- Base topographic survey prepared by Trabue Hansen & Hinshaw.

UTILITY NOTES:

- Fittings are called out on the plans for information only. Unless specifically listed on the bid form as a bid item, all fittings are incidental to the work, and their cost shall be included in the cost of the pipe. Any sections of line between fittings at connections and not specifically called by footage on the plans are also incidental. The Contractor shall be responsible for any additional fittings and pipe length required to maintain 42" minimum cover over the water main at ditch crossings.
- The Contractor may adjust the horizontal location of the effluent line 1'-2' throughout the project to avoid conflicts. When crossing culverts the Contractor shall use care to prevent damage to existing structures. If damaged, the Contractor shall replace the culvert with like material at the Contractor's expense.
- The Contractor shall maintain 10' horizontal and 18" vertical separation between water line and existing/proposed gas lines, and sanitary or storm sewers.

EROSION CONTROL:

- Erosion Control devices shown are schematic in nature. Actual Locations May Change as Portions of the Work are Undertaken and Completed.
- Contractor shall provide stabilized storage/lay down area for any onsite storage of materials or equipment. Areas to be updated on Erosion Control maintained on site.
- MDNR Land Disturbance Permit #
- In order to terminate a state operating permit the Missouri Department of Natural Resources (MDNR) requires that the permittee submit a completed Form H (included with the approved permit) to the MDNR. A permit is eligible for termination when either perennial vegetation, pavement, buildings, or structures using permanent materials cover all areas that have been disturbed. Vegetative cover shall be at least 70% of fully established plant density over 100% of the disturbed area. A copy of Form H should be submitted to the City.
- Land disturbance sites should be inspected on a regular schedule and within a reasonable time period (not to exceed 48 hours) following heavy rains. Regularly scheduled inspections shall be at a minimum of once per week. Any deficiencies shall be noted in a weekly report of the inspection and corrected with seven calendar days of the report. Contractors are required to submit to City inspection staff copies of their inspection reports required by the Stormwater Pollution Prevention Plan (SWPPP) on a monthly basis.

UTILITY CONTACT INFORMATION

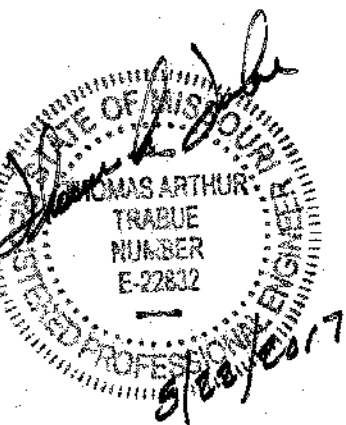
Locations:	Missouri One Call System Inc. 1022 B Northeast Drive Jefferson City, MO 65109 1-800-344-7483
Sewer:	City of Sweet Springs (660) 355-4564
Water:	City of Sweet Springs (660) 355-4564
Electric:	Kansas City Power & Light (660) 831-5254
Telephone:	AT&T (816) 519-1516

CONTROL INFORMATION

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	1145718.469	1377696.381	688.796	IRON ROD
101	1144837.252	1378157.053	688.909	IRON ROD
102	1145783.653	1378252.507	684.031	IRON ROD
104	1144983.661	1377676.066	688.665	60D NAIL
112	1145222.222	1377681.850	688.820	60D NAIL
113	1145863.295	1377568.863	662.058	PK NAIL
115	1146108.126	1378273.773	672.463	PK NAIL
285	1149824.977	1380413.834	707.590	MON B 285 BM

Note: Contractor shall verify the accuracy of horizontal and vertical control before beginning layout of the work. Elevations on Survey Control are provided for reference only except as noted as "BM".

Revision No.	Date	Description
1	11-15-17	ISSUE FOR PERMIT



Thomas A. Trabue
MO-E 22832
Expires: 12-31-2018

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MISSOURI CERTIFICATE OF
AUTHORITY NO. E-2006023253
EXPIRES: DECEMBER 31, 2018

City of Sweet Springs
Wastewater Treatment
Improvements
General Notes & Legend

Client Proj # 007380
THInc Proj # 007380
Engineer: TPW
Designer: TPW
Drafter: GRK
Plotted: 9-28-2015

DWG. C002
SHT. 2 OF 15