5. Site Address: 1060&1072 Cool Springs Industrial Road 2-0051-9851-00-0012.0000000 6. Parcel ID: 2-0051-9851-00-0013.0000000

7. Project is Served By:

City of O'Fallon A. Water — Spire Gas Company C. Telephone – CenturyTel Telephone Company D. Sanitary - City of O'Fallon Sewers

O'Fallon Fire Protection District

6. All utilities shall be located underground. 7. Parking and building shall be in compliance with A.D.A. Accessibility

8. All dimensions taken from back of curb unless otherwise noted. 9. Building height, site lighting and signage shall be in accordance with City of

O'Fallon's Requirements.

10. Setback and yard requirements: G. Front Yard Setback:

H. Rear Yard Setback: 35 feet I. Side Yard Setback: 20 feet

11. Grading and drainage shall be per the requirements of the City of O'Fallon.

12. Architectural treatment to be provided on all sides of buildings. Architectural treatment shall remain consistent throughout the project. 13. All easements shall be provided for on the lot consolidation plat.

14. Exterior lighting details and photometric plan shall be submitted and approved prior to construction plan approval.

15. No slope shall be greater than 3:1 during construction and at final grade. 16. Per F.I.R.M. #29183C0241G January 20, 2016, portions of the site are

located within Zone "A" of the 100 year flood plain. 17. Signage locations and sizes to be reviewed separately through the Planning Division. Signage shall be permitted separately.

18. All new utilities under City streets shall be bored.

19. All handicap sidewalk ramps shall be concrete and shall meet the City of O'Fallon and ADA requirements.

20. All proposed fencing requires a separate permit through the Planning

Division. 21. Ground mounted HVAC and mechanical units shall be screened by fencing, vegetation or some other means (approved by the Planning and Zoning Commission) that has a minimum height that is at least as tall as the

22. Utility contractor shall coordinate utility connections with general contractor. 23. This site will be in compliance with Phase II Illicit Storm Water Discharge auidelines per Ordinance 5082.

24. No trash enclosures are proposed for this development.

BENCHMARKS

<u>USGS BENCHMARK</u> SC-06 - MISSOURI GEOGRAPHIC REFERENCE SYSTEM STANDARD MISSOURI DNR GRS ALUMINUM DISK STAMPED "SC-06A 1990' SET IN A 12 INCH DIAMETER CONCRETE MONUMENT ABOUT 30 INCHES LONG AND FLUSH WITH THE GROUND. NORTHING 1,083,358.9519 EASTING 777,759.1195

FIEVATION 529.13 GRID FACTOR 0.9999150

CROSS CUT IN THE CENTERLINE OF COOL SPRINGS INDUSTRIAL DRIVE AT THE PROJECTION OF LOTS 1-2 OF COOL SPRINGS INDUSTRIAL PARK PLAT 1 AS RECORDED IN PLAT BOOK 36, PAGE 44 ELEVATION 477.01

O'FALLON WORK HOURS

* City of O'Fallon Construction work hours per City Ordinance 3429 as shown in section 500.420 of the Municipal Code of the City of O'Fallon are as follows: CONSTRUCTION WORK SHALL ONLY BE ALLOWED DURING THE FOLLOWING HOURS: October 1 through May 31 7:00 A.M. To 7:00 P.M. Monday Through Sunday June 1 Through September 30 6:00 A.M. To 8:00 P.M. Monday Through Friday 7:00 A.M. to 8:00 P.M. Saturday and Sunday

Construction work to be done outside of these hours requires prior written approval from the City Administrator or City Engineer.

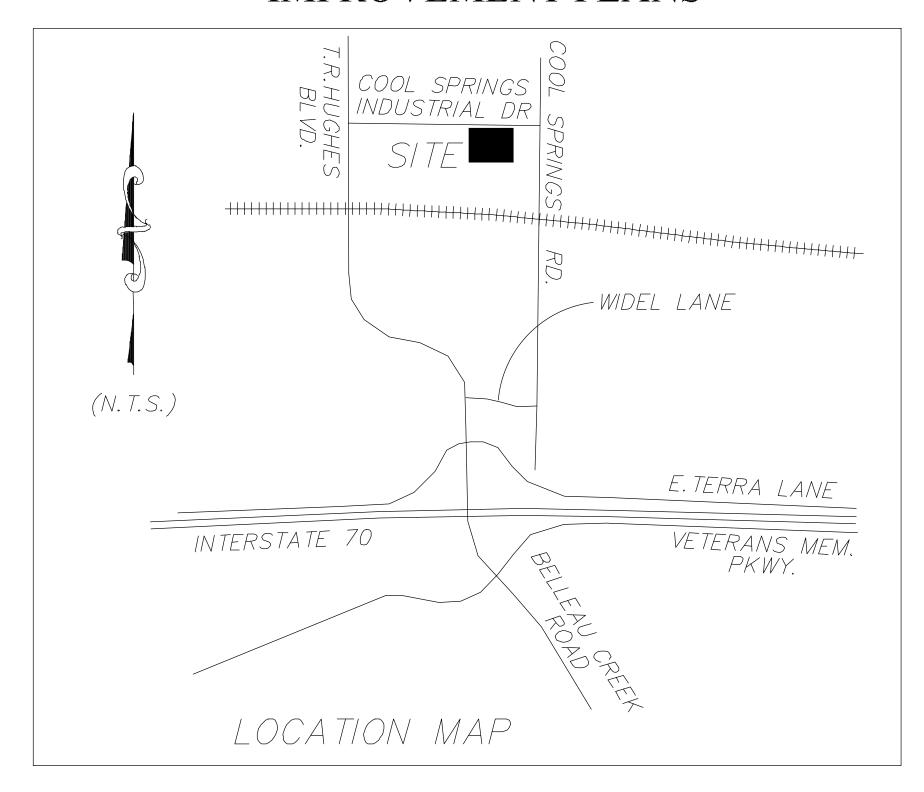


UNDERGROUND FACILITY STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDED INFORMATION AND, THEREFORE, THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. VERIFICATION OF LOCATION OF ALL UNDERGROUND STRUCTURES AND FACILITIES EITHER SHOWN OR NOT SHOWN ON THESE PLANS. SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

CHUCK IT IN STORAGE

CONSOLIDATED LOTS 12 AND 13 OF COOL SPRINGS INDUSTRIAL PARK PLAT TWO, BEING PART OF FRACTIONAL SECTION 22, AND PART OF US SURVEY 63, TOWNSHIP 47 NORTH, RANGE 3 EAST, CITY OF O'FALLON, ST. CHARLES COUNTY, MISSOURI

IMPROVEMENT PLANS



PROJECT DATA												
BUILDINGS	PAVED AREAS	LANDSCAPED AREAS	TOTAL SQ. FT.									
24,700 (26.7%)	31,782 (34.4%)	35,920 (38.9%)	92,402									

TREE PRESERVATION

EXISTING TREE MASS = 18,615 SQ FT TREE MASS REMAINING = 15,295 SQ FT PERCENT OF TREE MASS PRESERVED = 82%

PARKING CALCULATIONS

REQUIRED PARKING SPACES: INDOOR STORAGE FACILITY ONE (1) SPACE PER EMPLOYEE ON THE MAXIMUM WORK SHIFT + ONE (1) SPACE FOR EACH VEHICLE UTILIZED BY THE BUSINESS

NUMBER OF VEHICLES USED = 0 0 + 0 = 0 SPACES REQUIRED

ALL PARKING WILL BE ALONG THE BUILDINGS AT THE RENTERS UNIT.

SANITARY CALCULATIONS

ESTIMATED SANITARY FLOW STORAGE FACILITY: THERE ARE NO PROPOSED CONNECTIONS TO THE SANITARY SEWERS FOR THIS DEVELOPMENT.

DIFFERENTIAL RUNOFF **CALCULATIONS**

PRE DEVELOPED BUILDINGS: 0..0 Ac * 3.54 = 0.00 CFSPAVEMENT: 0.0 Ac * 3.54 = 0.00 CFS2.12 Ac * 1.70 = 3.69 CFSTOTAL PRE-DEVELOPED RUNOFF = 3.69 CFS POST DEVELOPED BUILDINGS: 0.57 Ac * 3.54 = 2.02 CFSPAVEMENT: 0.73 Ac * 3.54 = 2.58 CFSTOTAL POST-DEVELOPED RUNOFF = 5.99 CFS DIFFERENTIAL RUNOFF:

5.99 CFS - 3.69 CFS = 2.30 CFS** DETENTION PROVIDED IN EXISTING BASIN TO THE WEST **

INDEX OF SHEETS:

O1	COVER SHEET
-02	NOTES
-02	NOTES
-03	EXISTING CONDITIONS
04	SITE PLAN
-05	GRADING PLANS
06	PROFILES AND ENTRANCE PLAN
-07	PRE DEVELOPMENT DRAINAGE AREA MAP
-08	POST-DEVELOPMENT DRAINAGE AREA MA
00	
-09	EROSION CONTROL PLAN / SWPPP
-10	DETAIL Q
70	DE l'AILO
-11	DETAILS

AS-BUILTS

<u>Utility Contacts</u>

Sanitary Sewers City of O'Fallon 10Ó N. Main St.

O'Fallon, MO. 63366 Contact: 636-240-2000

O'Fallon, MO. 63366 Contact: 636-240-2000 Storm Sewer

City of O'Fallon 100 N. Main St. O'Fallon, MO. 63366 636-240-2000

Ameren Missouri 200 Callahan Road Wentzville, MO. 63385 636-639-8312

Spire Gas 6400 Graham Road St. Louis, MO. 63134 314-522-2297

<u>Telephone</u>

CenturyLink 1151 Century Tel Dr. Wentzville, MO. 63385 636-332-7261 Fire District

O'Fallon Fire Protection District 111 Laura K Dr. O'Fallon, MO. 63366 636-272-3493

These "AS-BUILT" plans are based on actual field observations conducted during SEPTEMBER 2022, and the results are shown hereon. Pickett, Ray & Silver/CEC is responsible only for the As Built measurements shown hereon.



DOUGLAS SCOTT TIEMANN P.L.S., #2378 STATE OF MISSOURI

PICKETT, RAY & SILVER, part of CIVIL & ENVIRONMENTAL CONSULTANTS, INC. CORPORATE REGISTRATION NO. 2007031293 3000 LITTLE HILLS EXPRESSWAY, SUITE 102 ST. CHARLES, MO 63301 *314-656-4566*

P and Z Approval

Site Plan Case Number 21-008101 was approved on November 4th 2021.

Conditions for Approval

1. Vacate the easement that runs through the area where the proposed building is shown.

2. There could be issues with the alignment of the sidewalk based on curb inlets, existing sidewalk, etc. Work with staff to determine an appropriate sidewalk location. 3. Add additional lighting at the entrance.

CITY OF O'FALLON

COMMUNITY DEVELOPMENT DEPARTMENT ACCEPTED FOR CONSTRUCTION As Built Plan Approval

BY: Karl Ebert DATE 01/31/2023

PROFESSIONAL ENGINEER'S SEAL INDICATES RESPONSIBILITY FOR DESIGN

> NOTE: ALL PROPER SAFETY ATTIRE SHALL BE WORN WHILE WORKING WITHIN MODOT RIGHT OF WAY LIMITS.

date hereunder attached. Responsibility is disclair for all other engineering plans involved in this project and specifically excludes revisions after this PICKETT, RAY & SILVER, INC

AS

KARL ANTHONY SCHOENIKE, P.E. PE—2003015039

Propert 16172 Juis, MO 6 % % % P

Owner Cool 16923 Chesi P+Z No.

City No.

Page No. COVER SHEET

Approval Date

01 of 11

UTILITIES NOTE

UNDERGROUND FACILITIES, UTILITIES AND STRUCTURES HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THEREFORE, THEIR LOCATION MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL UTILITIES LOCATED IN THE FIELD PRIOR TO EXCAVATION OR CONSTRUCTION.



SITE PLAN NOTES

- 1. IT IS THE RESPONSIBILITY OF ALL CONTRACTORS CONTACT UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION ON OR RELATING TO THIS PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE OR ARRANGE FOR THE RELOCATION OF ANY UTILITIES AFFECTED BY THE PROJECT CONSTRUCTION.
- 2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF O'FALLON STANDARD SPECIFICATIONS, UNLESS OTHERWISE NOTED.
- 3. ALL DIMENSIONS SHOWN HEREON ARE AT FACE OF CURB, UNLESS NOTED OTHERWISE. 4. WORK NOT SPECIFICALLY DETAILED OR CALLED OUT HEREON REQUIRED TO COMPLETE THE SITE CONSTRUCTION SHALL BE CONSIDERED INCIDENTAL TO THE WORK WHICH IS CALLED
- 5. REFER TO ARCHITECTURAL PLANS FOR EXTERIOR SITE LIGHTING, INTERIOR BUILDING
- 6. THE CITY OF O'FALLON SHALL BE CONTACTED FOR UTILITY LOCATES UNDER ITS MAINTENANCE RESPONSIBILITY. FOR WATER MAIN, SANITARY SEWER AND STORM SEWER LOCATES, CONTACT 636-2858, FOR TRAFFIC LOCATES, CONTACT 636-379-5602. CONTACT THE ENGINEERING DIVISION AT 636-379-5556 AND THE CONSTRUCTION INSPECTION DIVISION AT 636-379-7631.
- 7. ALL STORM SEWER INLETS MUST BE CLEARLY MARKED WITH A NOTATION SIMILAR TO "DUMP NO WASTE DRAINS TO STREAM" CLEARLY VISIBLE ON THE STRUCTURE TOP. SELF ADHESIVE (PEAL AND STICK) VINYL STICKERS ARE NOT SUFFICIENT.
- 8. DURING CONSTRUCTION THE STORM WATER FLOW FROM EXISTING CURB INLET CI 1.6 SHALL NOT BE IMPEDED IN ANY WAY THAT WILL CAUSE STANDING WATER ON COOL SPRINGS INDUSTRIAL DRIVE.

SITE PLAN KEYED NOTES

- PROPOSED CONCRETE PAVEMENT (8" PCC OVER 4" TYPE 5 BASE)
- PROPOSED 6" VERTICAL CURB
- PROPOSED BUILDING
- PROPOSED SIDEWALK (5' WIDE WITH A 1.5% CROSS SLOPE)
- MATCH EXISTING PAVEMENT
- PROPOSED HYDRODYNAMIC SEPARATOR (CONTECH CASCADE SEPARATOR, SEE DETAIL)
- PROPOSED LIGHT STANDARD
- PROPOSED WALL PACK LIGHT
- PROPOSED 6' ANODIZED ALUMINUM FENCE
- PROPOSED 6' TALL GATE
- PROPOSED ELECTRIC METER
- PROPOSED GATE CONTROLER

LANDSCAPE CALCULATIONS

1 TREE PER EVERY 40.00' OF PUBLIC/PRIVATE STREET FRONTAGE.

317' * 1 TREE/EVERY 40.00' = <u>8 REQUIRED</u> TREES REQUIRED: SITE TREES: 1 PER 3,000 SQ. FT. OF OPEN SPACE

TREES REQUIRED: 35,920 SQ FT * 1 TREE PER 3000 SF = <u>12 REQUIRED</u> TREES PROVIDED: 8 STREET TREES + 12 SITE TREES = 20 TREES plus existing forested area to remain

	SYMBOL	QUANTITY	COMMON NAME	BOTANTICAL NAME	HEIGHT				
		8	PIN OAK	QUERCUS PALUSTRIS	<45'				
	**************************************	12	PLUM PURPLE-LEAF	PRUNUS CERASIFERA	15'				
**CONIFER TREES MUST BE A MINIMUM OF 6' IN HEIGHT. FINAL TREE SELECTIONS AND									



LOCATIONS TO BE SHOWN

ON CONSTRUCTION PLANS

Chuck IMPROTED LOTS 12 A

date hereunder attached. Responsibility is disclaimed for all other engineering plans involved in this project and specifically excludes revisions after this date unless reauthenticated.

PICKETT, RAY & SILVER, INC

KARL ANTHONY SCHOENIKE, P.E. PE—2003015039

Fallon

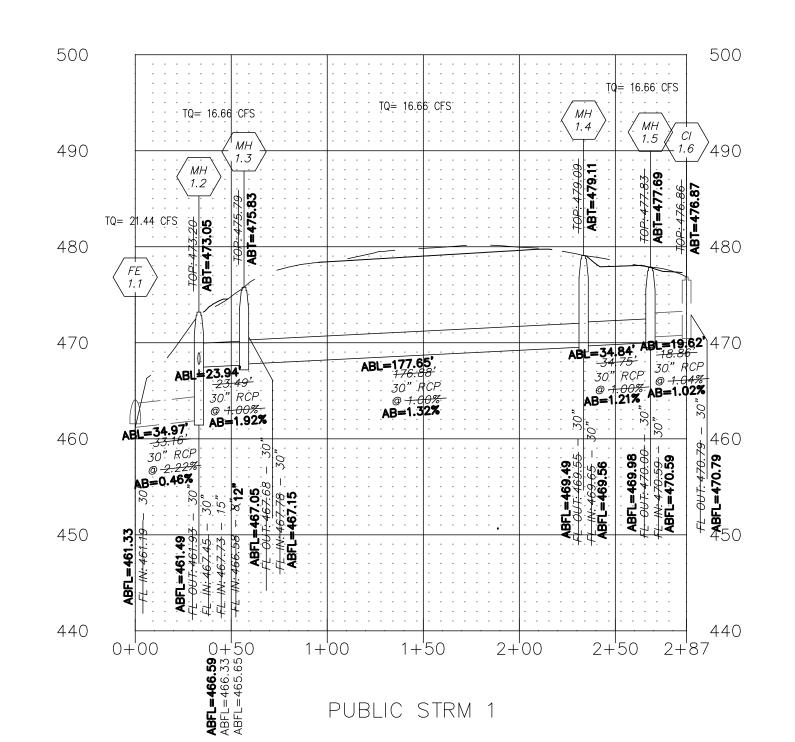
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Page No.

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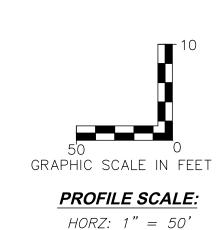
ENTRANCE WARPING

•	St Charles County Government R:\JOB NUMBERS\2021\21044.PACO.000\Calculations\as builts.txt Hydraulic Review Output Data 1/27/2023 Calculations Under Full Flow																								
									Hydr Grade	FR Head	VEL	VEL Head	Junc Loss	500000000	Curve Loss	STR Grade	Inl Cap	DR Area	P.I.	Q		Pipe Cap	Remarks		
1 2.5 2 2.4 3 2.3 4 2.2 5 2.1	2.4 2.3 2.2 2.1 1.2	46 81 68 47 22	12 12 15 15	473.28 472.58 469.32 468.56 468.12	472.69 469.45 468.57 468.14 466.33	1.28 3.88 1.11 0.90 8.06	477.22 476.49 473.75 475.66 475.73	3.55 3.77	473.72 472.94* 469.98 469.57 468.54*		0.00290 0.00230 0.00380	0.23 0.16 0.18	0.90 2.43 2.51 3.26 3.90	0.01 0.09 0.10 0.17 0.24	0.01 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0 0 0 0	4.00 4.00 4.00 4.00 4.00	0.20 0.34 0.33 0.26 0.22	3.54 3.54 3.54	0.71 1.20 1.17 0.92 0.78	1.91 3.08 4.00	4.03 7.02 6.81 6.13 18.34	as built as built as built as built as built
6 1.6 7 1.5 8 1.4 9 1.3	1.5 1.4 1.3 1.2	20 35 178 24	30 30 30 30	470.79 469.98 469.49 467.05	470.59 469.56 467.15 466.59	1.02 1.21 1.32 1.92	476.87 477.69 479.11 475.83		473.30 472.20 470.52* 469.21	473.09 472.06 469.65 469.09	0.00160 0.00160	0.06 0.28	3.39 3.39 3.39 3.39	0.18	0.18 0.00 0.00 0.00	0.00 0.08 0.08 0.08	0.00 0.00 0.00 0.00	0 0 0	4.00 0.00 0.00 0.00	0.49 0.00 0.00 0.00	3.54 3.54	0.00	16.66 16.66 16.66 16.66	41.43 45.12 47.13 56.84	as built as built as built as built
10 1.2	1.1	35	30	461.49	461.33	0.46	473.05	8.96	464.09	463.83	0.00270	0.09	4.37	0.30	0.17	0.00	0.00	0	0.00	0.00	3.54	0.00	21.44	27.82	T.o.P = 463.83 as built



ABL=14.35' 2+'520+'65

PRIVATE STRM 2



CASCADE SEPARATOR DESIGN NOTES

THE STANDARD CS-5 CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS

CONFIGURATION DESCRIPTION

GRATED INLET ONLY (NO INLET PIPE) GRATED INLET WITH INLET PIPE OR PIPES

CURB INLET ONLY (NO INLET PIPE) CURB INLET WITH INLET PIPE OR PIPES

TOP SLAB ACCESS

ABFL=462.37

PLAN VIEW B-B

ELEVATION A-A

NOT TO SCALE

CASCADE

CONTRACTOR TO GROUT

TOP OF CENTER CHAMBER (EXTENSIONS AVAILABLE —

(MULTIPLE INLET PIPES -

FIBERGLASS INTERNAL

SOLIDS STORAGE SUMP

ABFL=466.57

FRAME AND COVER

DATA REQUIREMENTS STRUCTURE ID
WATER QUALITY FLOW RATE (cfs [L/s]) PEAK FLOW RATE (cfs [L/s]) RETURN PERIOD OF PEAK FLOW (yrs)

NOT TO SCALE

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.conteches.com
3. CASCADE SEPARATOR WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN

THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.

4. CASCADE SEPARATOR STRUCTURE SHALL MEET AASHTO HS20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2' [610], AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.

5. CASCADE SEPARATOR STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C478 AND AASHTO LOAD FACTOR DESIGN

METHOD.
6. ALTERNATE UNITS ARE SHOWN IN MILLIMETERS [mm].
7. CS-5 SEPARATOR IS 5' IN DIAMETER

MANIFOLE STRUCTURE.

CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.

CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE

CENTRACTOR TO MATCH PIPE OPENING CENTERLINES.

CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS

CINTECH

CASCADE SEPARATOR STANDARD DETAIL

WATER QUALITY CALCULATIONS

AREA DRAINING TO THE CASCADE SEPARATOR = 1.35 ACRES WATER QUALITY RAINFALL DEPTH = 1.14 INCHES CURVE NUMBER = TIME OF CONCENTRATION = 5 MINUTES WATER QUALITY RUNOFF =

ORIFICE EQUATION = $C*A*SQRT (2*g*\Delta H)$

C = 0.66A = 0.785 SQ FT

PRIVATE STRM 3

g = 32.2 FT/SEC/SEC $1.32 \text{ CFS} = 0.66 * 0.785 * SQRT(2*32.2*\DeltaH)$ $\Delta H = 0.51 FT$

AS-BUILTS

VERT: 1" = 10'

City No. Page No.

Approval Date

P+Z No.

ENTRANCE AND STORM PROFILES 06 of 11

date hereunder attached. Responsibility is disclaime for all other engineering plans involved in this project and specifically excludes revisions after this date unless reauthenticated.

PICKETT, RAY & SILVER, INC

UTILITIES NOTE UNDERGROUND FACILITIES, UTILITIES AND STRUCTURES

HAVE BEEN PLOTTED FROM AVAILABLE INFORMATION AND THEREFORE, THEIR LOCATION MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE

OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL UTILITIES LOCATED IN THE FIELD PRIOR TO EXCAVATION OR CONSTRUCTION.

BEFORE YOU DIG!