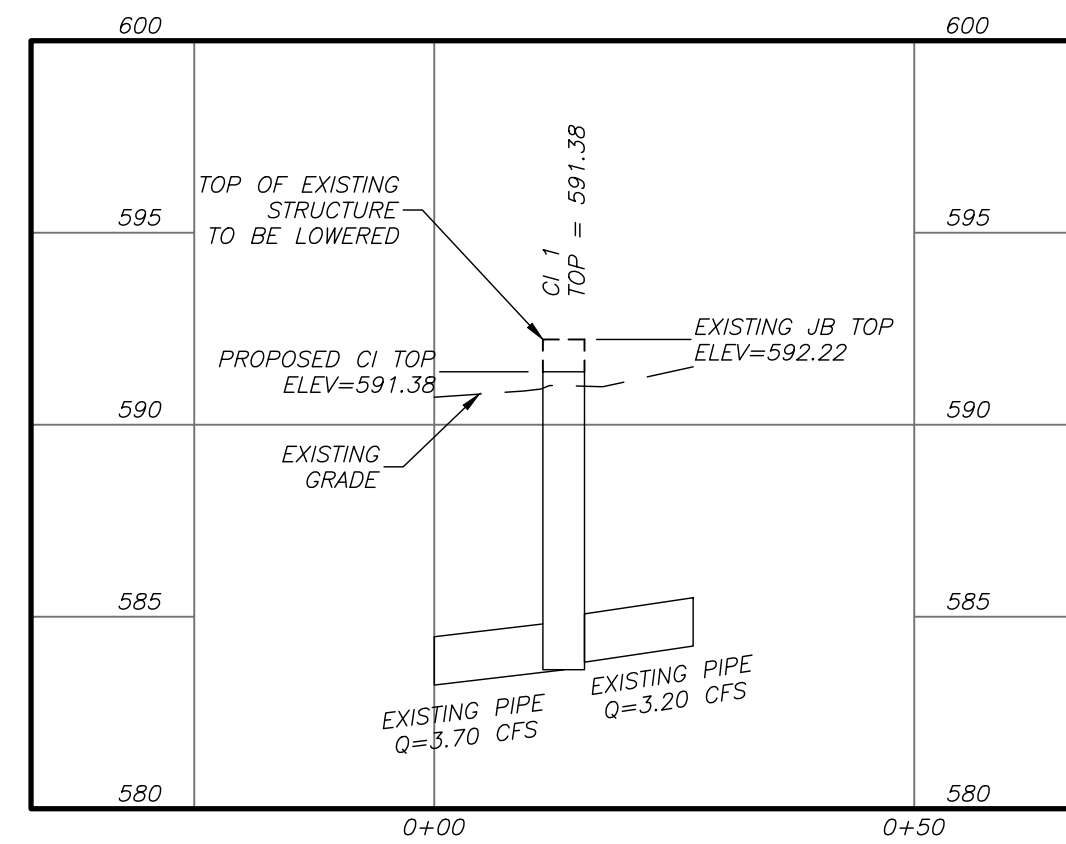
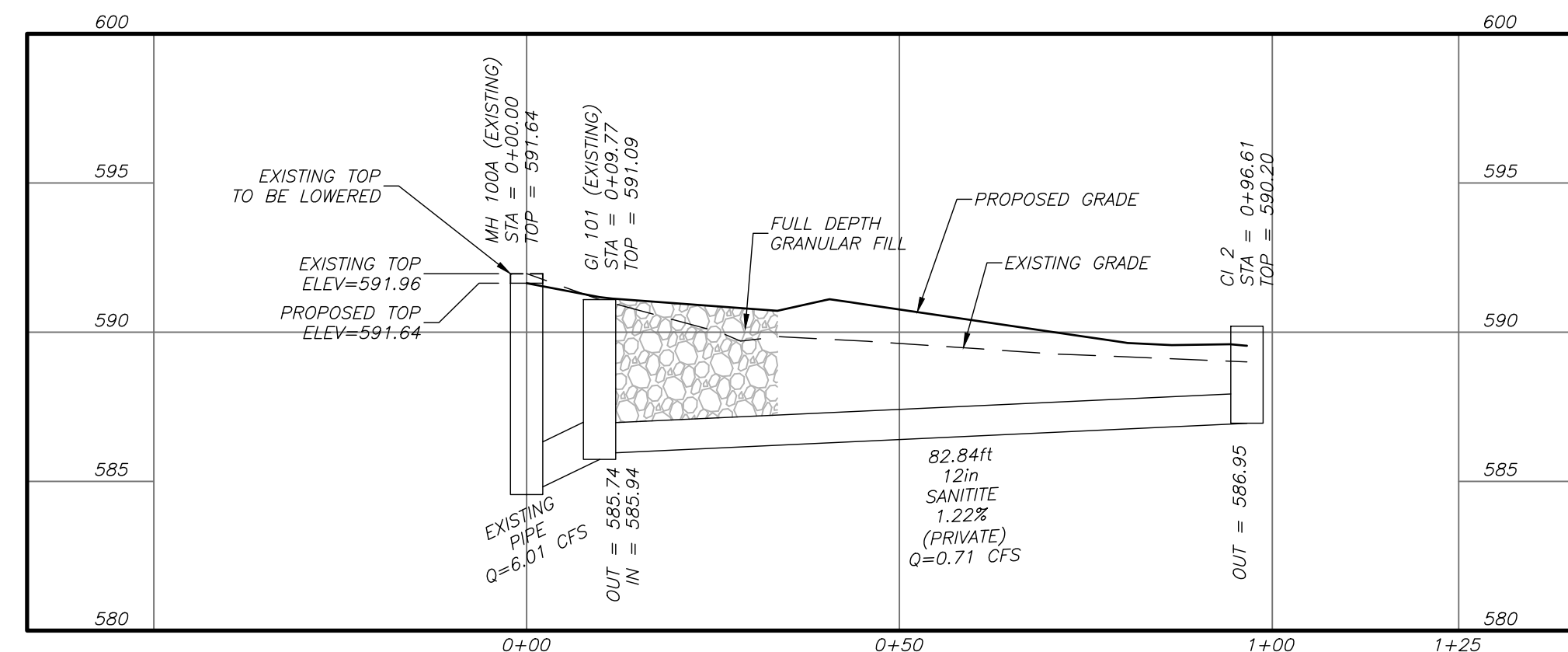


BLUE SKY HEALTH - 15 YEAR, 20 MINUTE HYDRAULICS

RUN	PIPE SIZE	FLOW RATE	INVERT UP	INVERT DN	PIPE LENGTH	PIPE SLOPE	VELOCITY	TOP/SILL ELEV UP	TOP/SILL ELEV DN	HGL UP	HGL DN	FREEBOARD UP	CAPACITY FULL	n - VALUE
STR UP STR DN	(in.)	(cfs)	(ft)	(ft)	(ft)	(%)	(ft/s)	(ft)	(ft)	(ft)	(ft)	(ft)	(cfs)	
AI 106 TO CI 1	15	3.20	588.89	583.60	149.68	3.53	8.83	594.83	591.38	589.32	584.18	5.51	13.15	0.012
CI 1 TO EX AI	15	3.70	583.40	580.51	96.00	3.01	9.02	591.38	587.16	584.18		7.20	12.79	0.012
CI 2 TO GI 101	12	0.71	586.95	585.94	82.84	1.22	4.01	590.20	591.09	587.23	586.56	2.97	4.26	0.012
GI 101 TO MH 100A	18	6.01	584.74	585.59	11.00	1.00	10.00	591.09	591.40	586.56	586.15	4.53	11.38	0.012



CI 1 PROFILE
 1"=20.00' Horiz.
 1"=5.00' Vert.



MH 100A TO CI 2 PROFILE
 1"=20.00' Horiz.
 1"=5.00' Vert.

15 YEAR POST-DEVELOPED FLOWRATE TO EACH INLET

INLET	TYPE	DRAINAGE AREA	PI	TIME OF CONC.	FLOWRATE Q-15	FLOWRATE BYPASSED	FLOWRATE INTERCEPTED	PIPE FLOW		PIPE SIZE
								IN	OUT	
ROOF	DOWNSPOUT	0.19	3.54	20	0.66	0.00	0.66	0.00	0.66	
GI 101	EXISTING									
GI 102	EXISTING				4.24	0.00	4.24	0.00	4.24	12 INCH
GI 101	EXISTING									
CI 2	CURB INLET	0.20	3.54	20	0.70	0.00	0.70	0.00	0.70	12 INCH
GI 101	EXISTING									
GI 101	EXISTING	0.12	3.42	20	0.42	0.00	0.42	5.60	6.01	18 INCH
MH 100A	EXISTING									
CI 1	CURB INLET	0.15	3.38	20	0.50	0.00	0.50	3.20	3.70	15 INCH
AI	EXISTING									

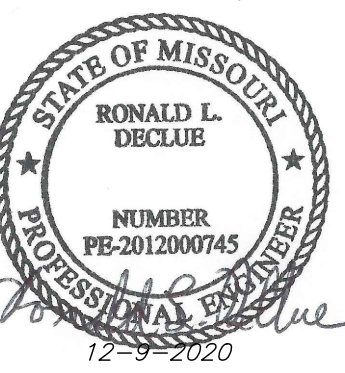
RUNOFF COEFFICIENT CALCULATIONS

	PI FACTOR		PI FACTOR		WEIGHTED PI FACTOR
CI 2	100 % IS PVMT / BLDG	3.54	0 % IS YARD/TREES	1.70	1.00(3.54)+0.00(1.70) = 3.54
CI 1	91 % IS PVMT / BLDG	3.54	9 % IS YARD/TREES	1.70	0.91(3.54)+0.09(1.70) = 3.38
ROOF	100 % IS PVMT / BLDG	3.54	0 % IS YARD/TREES	1.70	1.00(3.54)+0.00(1.70) = 3.54
GI 101	93 % IS PVMT / BLDG	3.54	7 % IS YARD/TREES	1.70	0.93(3.54)+0.07(1.70) = 3.42

Blue Sky Health
and Wellness



WUNDERLICH SURVEYING & ENGINEERING INC.
 512 EAST MAIN STREET
 UNION, MO 63084 (636) 583-8400
 WSETEAM.COM



Ronald L. DeClue,
 P.E. -2012000745
 for Wunderlich Surveying
 & Engineering, Inc.

THIS SEAL IS FOR DESIGN
 ONLY AND NOT CONSTRUCTION
 INSPECTION OR STAKING OUT
 OF IMPROVEMENTS

Developer / Owner Information
 STLMO Property, LLC c/o Jay Patel
 9911 Grandview Forest Ct.
 Sunset Hills, MO 63127
 618-210-1577
 Storm Sewer Profiles

P+Z No. 20-007711

City No.

SCALE:
 JOB: 32323
 DATE: 12-2020
 DWN. BY: RD
 SC: AS
 REV:
 REV:

SHEET

C2.1