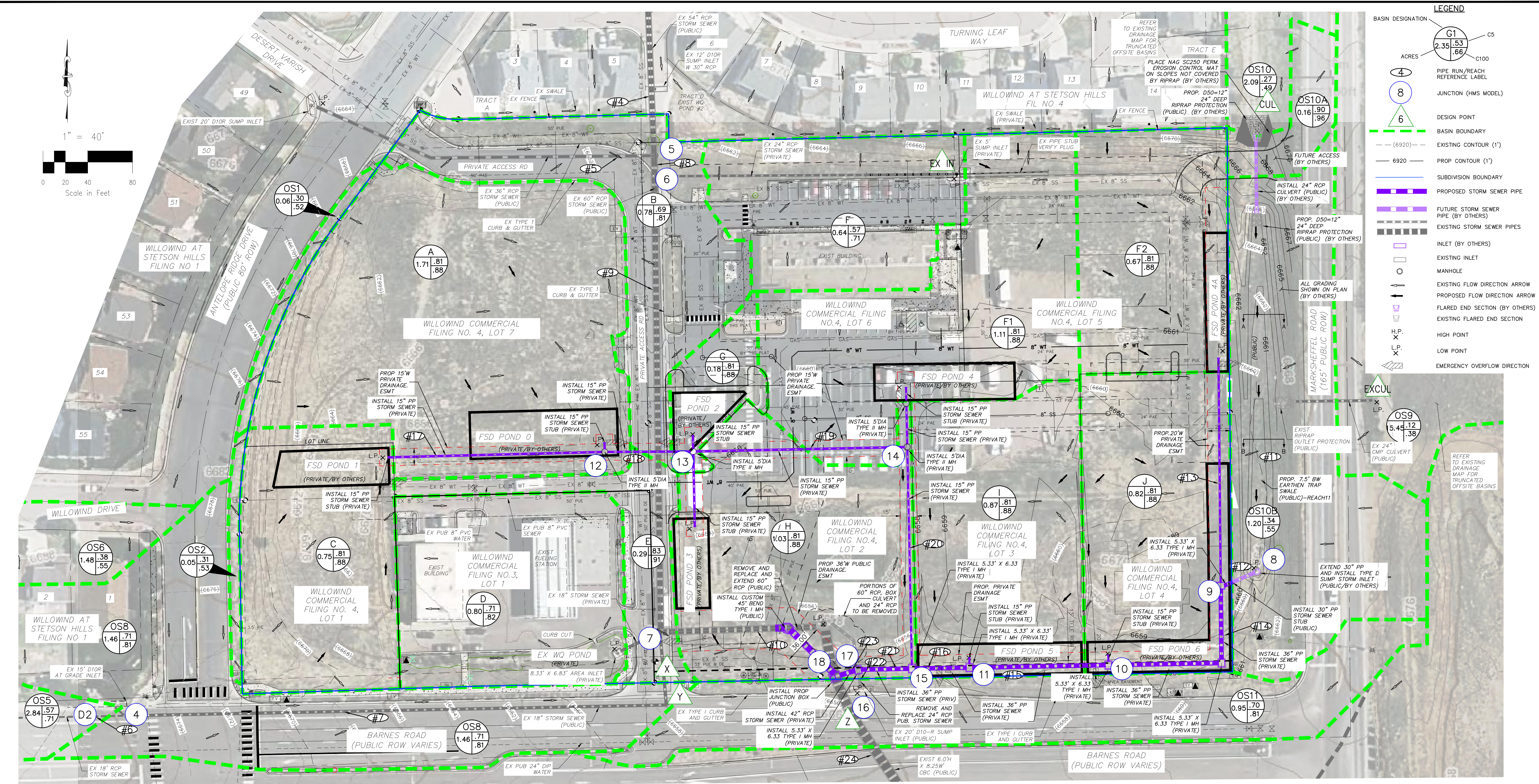


File: C:\100274-Willowind-Drainage\Drawings\Drainage Map\10-021 Proposed Condition Drainage Plan Map.dwg Plot Date: 11/27/2023 5:22 PM



### LEGEND

**BASIN DESIGNATION**

- G1: 2.35, .53 (ACRES)
- C5: C100
- 4: PIPE RUN/REACH REFERENCE LABEL
- 8: JUNCTION (HMS MODEL)
- 6: DESIGN POINT
- BASIN BOUNDARY
- (6920) ---: EXISTING CONTOUR (1')
- 6920 —: PROP CONTOUR (1')
- : SUBDIVISION BOUNDARY
- : PROPOSED STORM SEWER PIPE
- : FUTURE STORM SEWER PIPE (BY OTHERS)
- : EXISTING STORM SEWER PIPES
- : INLET (BY OTHERS)
- : EXISTING INLET
- : MANHOLE
- : EXISTING FLOW DIRECTION ARROW
- : PROPOSED FLOW DIRECTION ARROW
- : FLARED END SECTION (BY OTHERS)
- : EXISTING FLARED END SECTION
- H.P. X: HIGH POINT
- L.P. X: LOW POINT
- : EMERGENCY OVERFLOW DIRECTION

#### BASIN SUMMARY

BASIN	AREA (ACRES)	Qs	Q100
A	1.71	7.1	12.9
B	0.76	2.4	4.6
C	0.75	3.2	5.7
D	0.80	2.9	5.6
E	0.29	1.2	2.3
F	0.64	1.8	3.8
F1	1.11	4.7	8.5
F2	0.67	2.8	5.1
G	0.18	0.7	1.4
H	1.03	4.3	6.1
I	0.87	3.7	6.7

#### BASIN SUMMARY

BASIN	AREA (ACRES)	Qs	Q100
J	0.82	3.4	6.2
OS1	0.06	0.1	0.3
OS2	0.05	0.1	0.2
OS3	3.75	7.3	15.0
OS4	4.96	8.9	20.1
OS5	2.84	5.9	12.3
OS6	1.48	2.1	5.1
OS7	NOT USED		
OS8	1.46	4.6	8.9
OS9	15.45	7.0	36.1
OS10	2.09	2.3	6.9
OS10A	0.16	0.7	1.3
OS10B	1.20	1.8	3.3
OS11	0.95	3.2	6.3

#### JUNCTION SUMMARY

JUNCT	Qs	Q100	CONTRIB. BASIN/DP/REACH
1	106.7	233.3	A, R1
2	143.0	299.1	SHOWN
3	159.6	330.7	SHOWN
4	19.5	19.5	INLET 1/RS
5	187.2	387.5	R4, R5
6	188.0	387.5	R8, L
7	206.7	402.6	R7, R9, K
8	19.6	51.2	R11, P, Q, Q2
9	19.5	51.3	R12, R13
10	19.2	51.1	R14, POND 6
11	18.9	51.2	R15, POND 5
12	0.1	1.7	R17, POND 0
13	0.1	2.6	R18, PONDS 2&3
14	0.1	3.5	R19, POND 4
15	18.9	54.5	R16, R20
16	12.7	41.0	DIV2, H, M
17	31.5	95.2	R21, R22
18	236.8	495.5	R10, R23
19	10.6	23.1	DIV1, T
20	246.1	516.7	R24, J19

#### DESIGN POINT SUMMARY

DESIGN POINT	Qs	Q100	RATIONAL BASIN	STRUCTURE
POND 0	7.2	13.2	OS1, A	SF POND 0
POND 1	3.2	6.0	OS2, C	SF POND 1
EX POND	2.9	5.6	D	EX AREA DRAIN/WO POND
X	3.3	6.3	B, E	EX BARNES ROAD C&G
H	7.3	15.0	OS3	EX 10' DIOR AT-GRADE INLET
I	14.2	31.0	OS4, OS5	EX 15' DIOR AT-GRADE INLET
Y	10.2	28.8	OS2, OS6, OS8, OS9, FB DP12	EX BARNES ROAD C&G
EX IN	1.8	3.8	F	EXISTING TYPE R 5' SUMP INLET
POND 4	4.7	8.5	F1	SF POND 4
POND 4A	3.5	6.4	10A, F2	SF POND 4A
POND 2	0.7	1.4	G	SF POND 2
POND 3	4.3	7.9	H	SF POND 3
CUL	2.3	6.9	OS10	PROP. 24\"/>

#### STORM SEWER SUMMARY

PIPE RUN/REACH	Qs	Q100	PIPE SIZE
#1	NOT SHOWN	ON MAP	#15 18.9 50.6 PROP 36\"/>

#### STORM SEWER SUMMARY

PIPE RUN/REACH	Qs	Q100	PIPE SIZE
#16	18.8	51.0	PROP 36\"/>

#### SAND FILTER FSD POND SUMMARY

POND	CONTRIB. ACREAGE	CONTRIB. BASINS	IMPERVIOUS	FPC/URBAN DRAINAGE SAND FILTER BASIN-SEE STD. DET.	WOCV**	EURV**	100 YR**	TOTAL**	ASSUMED DISCHARGE***	
ID	(ACRES)	ID	%	SAND FILTER AREA	(AC-F)	(AC-F)	(AC-F)	(AC-F)	Q5 (CFS)	Q100 (CFS)
0	1.77	OS1, A	93.1	895	0.051	0.227	0.184	0.267	0.1	1.1
1	0.81	OS2, C	91.7	400	0.022	0.079	0.040	0.141	0.0	0.6
2	0.18	G	95.0	92	0.005	0.018	0.009	0.033	0.0	0.1
3	1.03	H	95.0	576	0.031	0.104	0.051	0.186	0.0	0.8
4	1.11	F1	95.0	312	0.033	0.112	0.055	0.201	0.0	0.9
4A	0.67	F2	95.0	348	0.020	0.068	0.033	0.121	0.0	0.3
5	0.87	J	95.0	452	0.026	0.088	0.043	0.157	0.0	0.6
6	0.82	J	95.0	423	0.024	0.083	0.041	0.148	0.0	0.5

FOR LOCATING & MARKING GAS, ELECTRIC, WATER & TELEPHONE LINES

FOR BURIED UTILITY INFORMATION 48 HRS BEFORE YOU DIG CALL 1-800-922-1987

BASIN SUMMARY VALUES SHOWN PER RATIONAL CALCULATION ANALYSIS

THE ABOVE DP VALUES WERE USED TO EVALUATE THE HEC-HMS MODEL AND ARE FOR INFORMATION PURPOSES ONLY.

#X VALUES PROVIDED PER HEC-HMS MODEL OUTPUT THESE VALUES WERE USED IN HYDRAULIC GRADE LINE MODELS

REFER TO WWC4 F HEC-HMS DEVELOPED CONDITION DRAINAGE MAP FOR REACHES AND JUNCTIONS NOT SHOWN ON MAP

POTENTIAL POND LOCATION (SYMBOL SHOWN DOES NOT REFLECT REQUIRED SIZE, DEPENDENT UPON ACTUAL DEVELOPMENT)

NOTES: 1) ITEMS REFERENCED AS "BY OTHERS" IS NOT A PART OF 'INITIAL INFRASTRUCTURE'

212 N. WAHSAATCH AVE., STE 305  
 COLORADO SPRINGS, CO 80903  
 PHONE: 719.955.5485

**CIVIL CONSULTANTS, INC.**

### WILLOWIND COMMERCIAL FILING NO. 4

#### PROPOSED CONDITIONS DRAINAGE MAP

PROJECT NO. 10-021

DESIGNED BY: DLM  
 DRAWN BY: DLM  
 CHECKED BY: VAS

SCALE: HORIZONTAL: 1"=40'  
 VERTICAL: N/A

DATE: 10-25-23

SHEET 1 OF 2

PDM1