

Retention Lot 1

Dimple Dell Ridge Location Sandy, Utah 2/27/2018

Designer: Brandon Parr 100-Year Retention Sizing

Design Criteria

Per NOAA Atlas 14 Intensity Table: Return Period:

Allowable Discharge: **0.00 cfs/acre** Per Sandy City Standards

Allowable Discharges

Storm Drain Discharge Other Discharge: Total Discharge:

Weighted "C" Value

Surface Type	Area (sf)	"C" Value	C*A
Homes (rooftops)	2,000	0.90	1,800
Drives	720	0.90	648
Roadway and Sidewalk	0	0.90	0
Landscape	6,591	0.15	989
Totals	9,311		3,436.65
Weighted "C" Value		0.37	

Drainage Calculations

prainage	: Calcula	IIONS						
Duration	Intensity	Runoff C	Area	Rainfall	ccumulate	Allowable	Discharge	Required
					Flow	Discharge		Storage
min	in/hr		Ac	cfs	cf	cfs	cf	cf
15.0	4.28	0.37	0.21	0.34	304	0.00	0	304
30.0	2.88	0.37	0.21	0.23	409	0.00	0	409
60.0	1.79	0.37	0.21	0.14	508	0.00	0	508
120.0	0.97	0.37	0.21	0.08	553	0.00	0	553
180.0	0.66	0.37	0.21	0.05	562	0.00	0	562
360.0	0.37	0.37	0.21	0.03	622	0.00	0	622
720.0	0.22	0.37	0.21	0.02	746	0.00	0	746
1440.0	0.11	0.37	0.21	0.01	<i>77</i> 0	0.00	0	770

Maximum Storage Requirement: 0.02 Maximum Storage Requirement (ac-ft):

Retention Lot 2 Project: Dimple Dell Ridge Location Sandy, Utah Date: 2/27/2018

0.03

100-Year Retention Sizing

Designer: Brandon Parr

Design Criteria Intensity Table:

Per NOAA Atlas 14 100 year Return Period: 0.00 cfs/acre Per Sandy City Standards Allowable Discharge:

Allowable Discharges

0.00 cfs Storm Drain Discharge 0.00 cfs Other Discharge: Source: Total Discharge: 0 cfs

Weighted "C" Value

Surface Type	Area (sf)	"C" Value	C*A
Homes (rooftops)	2,000	0.90	1,800
Dri∨es	1,995	0.90	1,796
Roadway and Sidewalk	0	0.90	0
Landscape	14,522	0.15	2,178
Totals	18,517		5,773.80
Weighted "C" Value		0.31	

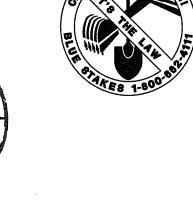
Drainage Calculations

Duration	Intensity "	Runoff C	Area	Rainfall	ccumulate	Allowable	Discharge	Required
					Flow	Discharge		Storage
min	in/hr		Ac	cfs	cf	cfs	cf	cf
15.0	4.28	0.31	0.43	0.57	511	0.00	0	511
30.0	2.88	0.31	0.43	0.38	687	0.00	0	687
60.0	1.79	0.31	0.43	0.24	854	0.00	0	854
120.0	0.97	0.31	0.43	0.13	930	0.00	0	930
180.0	0.66	0.31	0.43	0.09	945	0.00	0	945
360.0	0.37	0.31	0.43	0.05	1,045	0.00	0	1,045
720.0	0.22	0.31	0.43	0.03	1,254	0.00	0	1,254
1440.0	0.11	0.31	0.43	0.01	1,294	0.00	0	1,294

1,294 Maximum Storage Requirement: Maximum Storage Requirement (ac-ft):

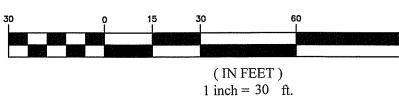








BOUNDARY



LEGEND

			ROW
			LOT LINE
			EASEMENT
***************************************	XXXX		CONTOUR MAJOR
	——xxxx—		CONTOUR MINOR
,			EXIST. STORM DRAIN
			EXIST. SANITARY SEWER
			EXIST. CULINARY WATER
		X	
	(XXXX)-		EXIST. CONTOUR MAJOR
**** ***** **** **** **** **** **** ****	(xxxx)-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	EXIST. CONTOUR MINOR
	-		SIGN
	\Rightarrow		STREET LIGHT
•	D Z	(•)	SD MH, INLET, AND COMBO
	89		SEWER MANHOLE
¢	⊲ ⊓	۲	VALVE, TEE & BEND
	•		WATER BLOW-OFF
	**		FIRE HYDRANT
	₩		STREET MONUMENT (TO BE SET)
	◉		EXIST. STREET MONUMENT
•	D 📉	∭ ∆	EXIST. SD INLET & MH
	69		EXIST. SEWER MH
ε	×4 □	Г	EXIST. VALVE, TEE, & BEND
	×		EXIST. FIRE HYDRANT
	[0]		EXIST. COMMUNICATIONS BOX
			EXIST. ELECTRICAL BOX & MANHOL
			EXIST. STREET LIGHT
	\Diamond		LOSIO I. OTRIBITE ENGLY



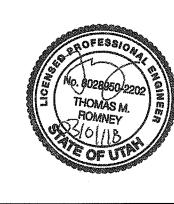
30% OR GREATER SLOPE AREAS. NO GRADING, CUTTING, FILLING, OR CONSTRUCTION OF ANY KIND IS ALLOWED EXCEPT AS APPROVED BY THE SANDY CITY ENGINEER.

EXIST. POWER POLE

DRAINAGE NARRATIVE

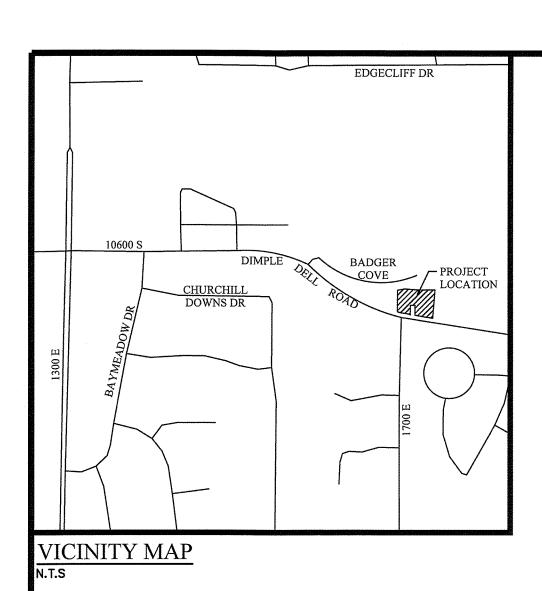
- DRAINAGE FOR THE DISTURBED AREAS OF LOTS 1 AND 2 WILL BE RETAINED ON SITE THROUGH THE USE OF SWALES, LANDSCAPING, AND PLANTING AREAS.
- RETENTION AREAS WILL BE DESIGNED WITH THE SITE PLANS, PRIOR
- TO OBTAINING A BUILDING PERMIT.
- RETENTION AREAS SHOWN ON THIS PLAN ARE FOR SCHEMATIC PURPOSES ONLY, AND DO NOT REFLECT THE ACTUAL SIZE OR LOCATION FOR STORM WATER RETENTION.



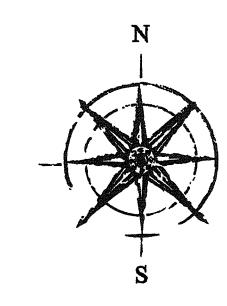


GRADING & DRAINAGE **PLAN**

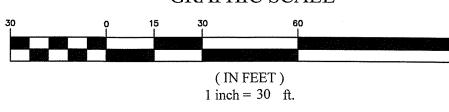
e: 1"=30' Drawn: AWS :: 3/1/2018 Job #: 17-103

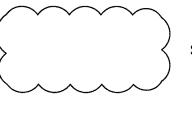




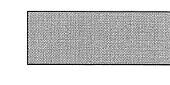




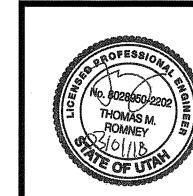




SCRUB OAK



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VEGITATION ANALYSIS PLAN

				Thomo
ale:	1"=30'	Drawn:	AWS	103 卫
te:	3/1/2018	Job #:	17-103	710
eet:	C	25		_2017\1

