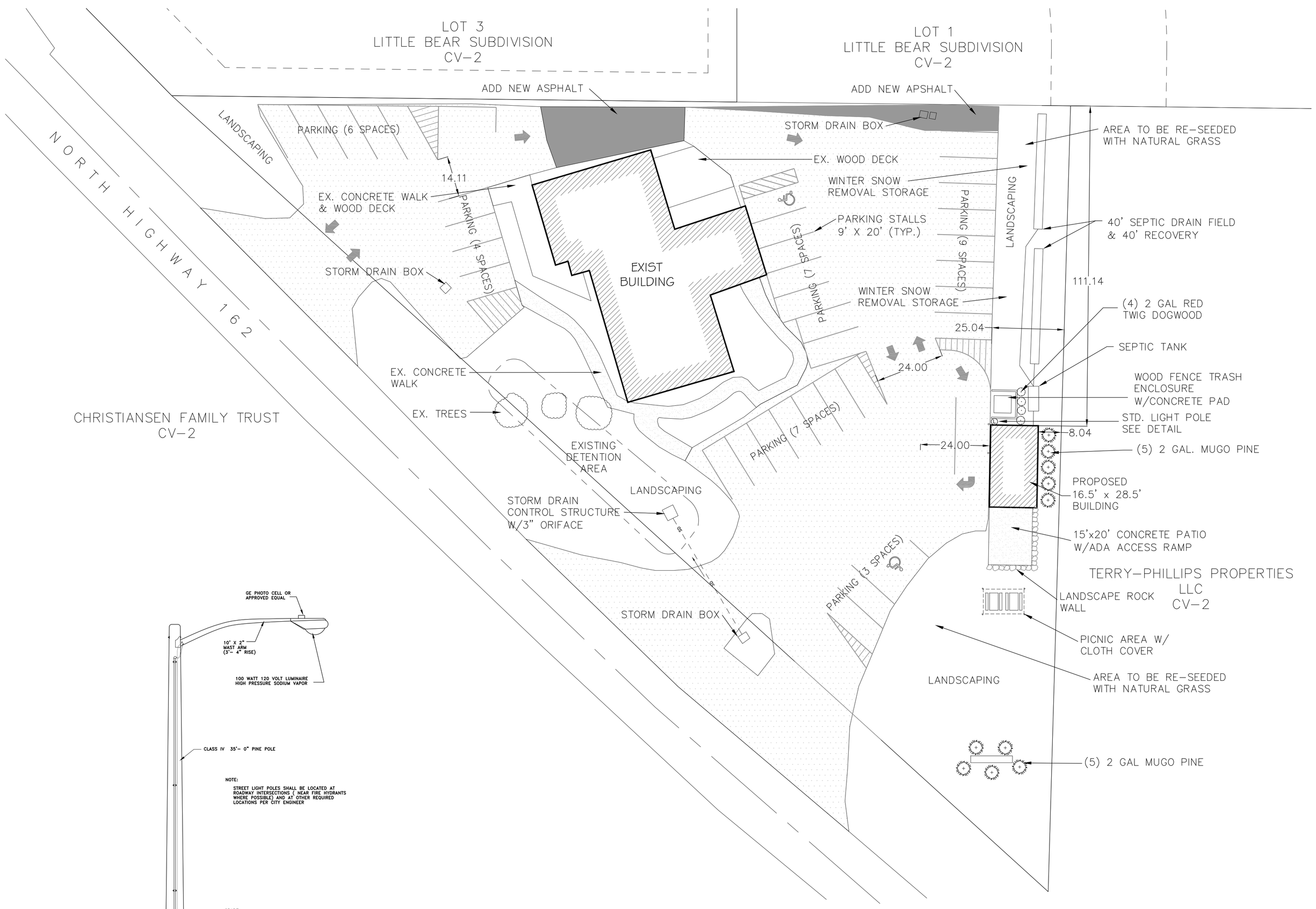
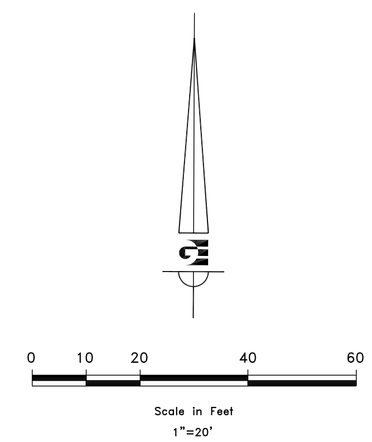
SITE PLAN

EDEN PROFESSIONAL CENTER

PART OF THE NORTHWEST 1 4 OF SECTION 34 T7N,
R1E, SLB & M, U.S. SURVEY
EDEN CITY, WEBER COUNTY, UTAH
DECEMBER 2011





DEVELOPMENT DATA

PARCEL NUMBER	22-046-0036
EXISTING ZONING	CV-2
PARCEL ACREAGE	.98 ACRES
HARD SURFACE AREA	2,104 SF (4.9%)
BUILDING AREA	4,280 SF (9.9%)
PARKING/ROAD AREA	21,728 SF (50.1%)
LANDSCAPE AREA	15,198 SF (35.1%)
PROPOSED PARKING	36 STALLS

Eden Center
Eden, Weber County, Utah
Lat= 41.3061 Losgi= 111.8281

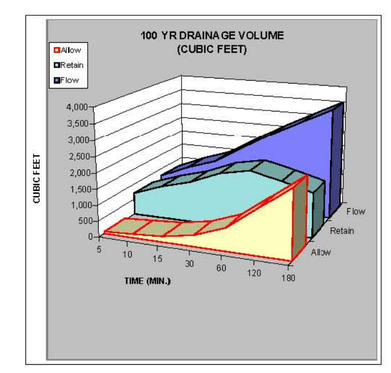
Gardner Engineering

Areas	Area Sq. Ft	Acre	C
Hard Surface	23,832	0.5471	0.85
Building	4,280	0.0983	0.90
Landscape	15,198	0.3489	0.0
Total/Weighted	43,310	0.9943	0.59

Allow Release Rate (cfs/acre)	0.2
Q Allowable (cfs)	0.20

100yr

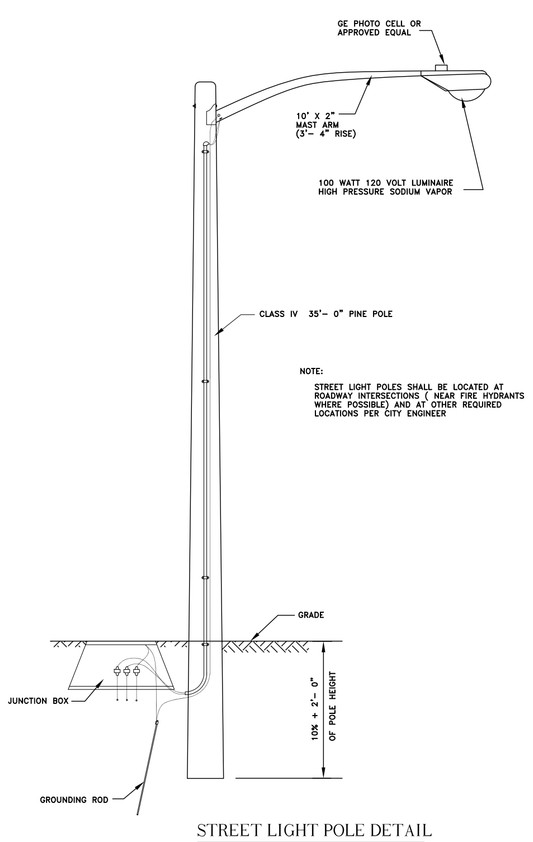
MIN	Release Vol (cf) Allowable	Inch / Hr i100	Total Vol (cf) 100 YEAR	Detain Vol (cf) Difference
5	60	4.32	763	703
10	119	3.3	1,165	1,046
15	179	2.6	1,483	1,304
30	358	1.94	2,055	1,697
60	716	1.20	2,605	1,889
120	1,432	0.73	3,062	1,631
180	2,148	0.56	3,559	1,411
360	4,295	0.37	4,702	407
720	5,848	0.23	5,848	0
1440	7,117	0.14	7,117	0



	CUBIC FEET	CUBIC YARDS
100 YEAR STORM RECOMMENDED MIN. VOLUME RETAINED	1,889	70

Orifice Calculation

H =	3	Maximum water height to center of orifice (ft)
Q =	0.20	Flowrate out of orifice (cfs)
Cc =	0.62	Coefficient of Contraction
Cv =	0.98	Coefficient of Velocity
Area =	0.024	Orifice Area (ft^2)
Π =	3.14	
g =	32.17	Gravitational Constant
d =	2	Orifice Diameter (in)



STREET LIGHT POLE DETAIL

DRAINAGE NOTES

1. DETENTION POND CAPACITY REQUIREMENT - 1,889 CF.
2. EXISTING DETENTION POND CAPACITY - APPROX. 2,277 CF.
3. ORIFACE IS CALCULATED TO BE 2" DIAMETER, TO REDUCE BLOCKAGE, SUGGESTED SIZE IS A 3" DIAMETER.

NOTE: ALL CONSTRUCTION TO CONFORM TO EDEN CITY STANDARDS AND SPECIFICATIONS.

NOTICE:

EXISTING UTILITIES ARE SHOWN ON PLANS FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES. THE ENGINEER BEARS NO RESPONSIBILITY FOR THE UTILITIES NOT SHOWN OR SHOWN INCORRECTLY.

AVOID CUTTING UNDERGROUND UTILITIES. IT'S COSTLY

Call BLUE STAKES BEFORE YOU Dig

1-800-662-4111
UNDERGROUND SERVICE (USA)

DEVELOPER

PAT BRENNAN
EDEN, UTAH

SCALE: 1" = 20'
DATE: DECEMBER 2011
DESIGN: TMN/SCC
DRAWN: SCC
CHECKED: TMN

REVISIONS

DATE	DESCRIPTION

DWG: SEE PLOT STAMP AT LEFT

REGISTERED PROFESSIONAL ENGINEER
No. 4859845
TYLER M. NIELSON
STATE OF UTAH

PAT BRENNAN
EDEN PROFESSIONAL CENTER
SITE PLAN
EDEN CITY, WEBER COUNTY, UTAH

Gardner Engineering
PLANNING
CIVIL ENGINEERING
LAND SURVEYING
ALTERNATIVE ENERGY
5875 South Adams Ave. Parkway, Suite 200 • Ogden, UT 84405
Phone (801) 476-0202 • Fax (801) 476-0065

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