

**Project Narrative/Notes/Revisions**

1. 06/28/21 CK - COMPLETED DESIGN FOR CLIENT & CITY REVIEW.
2. 07/07/21 CK - UPDATED DRAINAGE DESIGN.
3. 07/08/21 CK - UTILITY DESIGN UPDATES.
4. 07/20/21 CK - GRADING DESIGN & UTILITY UPDATES.
5. 11/03/21 CK - UPDATED PER NEW SITE LAYOUT.
6. 11/09/21 CK - UPDATED NOTATION OF COMMERCIAL LOT.

# The Basin Improvement Plans

WEBER COUNTY, UTAH  
MAY 2021



**Vicinity Map**  
NOT TO SCALE



SITE DATA	
PARKING:	26 GARAGE STALLS 13 PARKING STALLS 13 BOAT/TRAILER STALLS 26 DRIVEWAY STALLS 26 TANDEM PARKING STALLS 109 TOTAL STALLS
PARCEL AREA:	144,146 S.F. (3.31 ACRES)
BUILDING AREA:	33,677 S.F.
ASPHALT AREA:	43,420 S.F (0.99 ACRES)
LANDSCAPE AREA:	67,049 S.F. (1.54 ACRES)
LS RATIO:	46.5%

**Sheet Index**

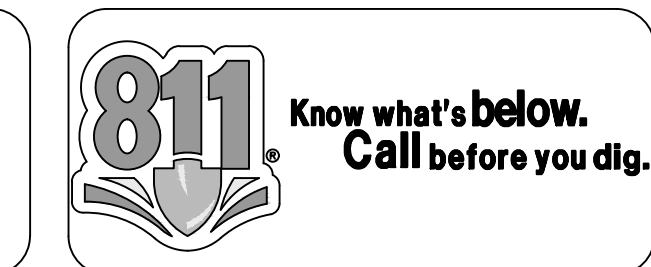
- Sheet 1 - Cover/Index Sheet
- Sheet 2 - Notes/Legend
- Sheet 3 - Existing Site & Demolition Plan
- Sheet 4 - Site Plan
- Sheet 5 - Grading & Drainage Plan
- Sheet 6 - Utility Plan
- Sheet 7 - Civil Details
- Sheet 8 - Storm Water Pollution Prevention Plan Exhibit
- Sheet 9 - Storm Water Pollution Prevention Plan Details
- Sheet 10 - Landscape Plan
- Sheet 11 - Details

**Engineer's Notice To Contractors**

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED FROM AVAILABLE INFORMATION PROVIDED BY OTHERS. THE LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR, SO THAT ANY NECESSARY ADJUSTMENT CAN BE MADE IN ALIGNMENT AND/OR GRADE OF THE PROPOSED IMPROVEMENT. THE CONTRACTOR IS REQUIRED TO CONTACT THE UTILITY COMPANIES AND TAKE DUE PRECAUTIONARY MEASURE TO PROTECT ANY UTILITY LINES SHOWN, AND ANY OTHER LINES OBTAINED BY THE CONTRACTOR'S RESEARCH, AND OTHERS NOT OF RECORD OR NOT SHOWN ON THESE PLANS.

**Elevation Datum:**

Site Benchmark:  
Northeast Section Corner  
Section 23, T6N, R1E  
State Plane, Utah North Zone,  
NAD83 Feet



**Architect:**

Reeve & Associates, Inc.  
5160 South 1500 West  
Riverdale, Utah, 84405  
PH: (801) 621-3100

**Geotechnical Report:**

Dated: May 4, 2021  
CMT Engineering  
Project No. 900131  
West Valley City, Utah, 84119  
PH: (801) 908-5859

**Surveyor:**

Trevor Hatch  
Reeve & Associates, Inc.  
5160 South 1500 West  
Riverdale, Utah, 84405  
PH: (801) 621-3100

**Landscape Architect:**

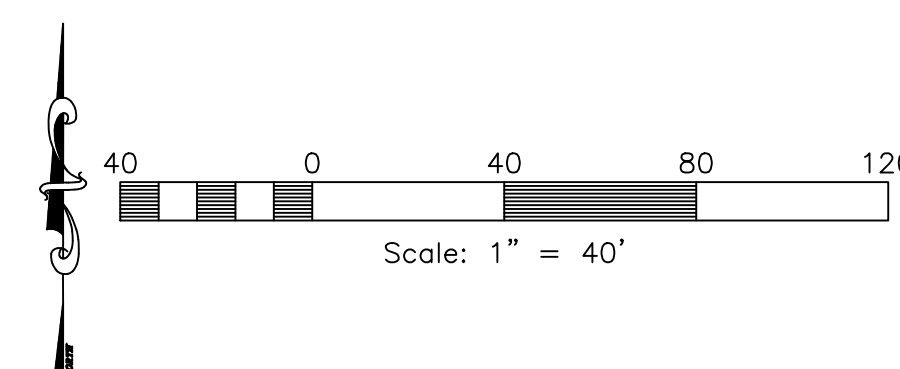
Nathan Peterson  
Reeve & Associates, Inc.  
5160 South 1500 West  
Riverdale, Utah, 84405  
PH: (801) 621-3100

**Developer Contact:**

Colin Wright - CW Land  
122 West Legacy Crossing Blvd  
Ste. 6 Centerville, Utah 84014  
PH: (801) 725-9079

**Project Contact:**

Jeremy Draper  
Reeve & Associates, Inc.  
5160 South 1500 West  
Riverdale, Utah, 84405  
PH: (801) 621-3100



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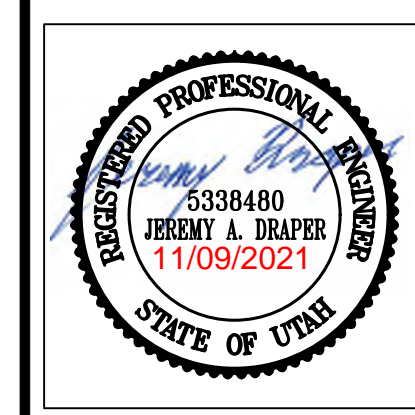
**Reeve & Associates, Inc.**  
5160 SOUTH 1500 WEST, RIVERDALE, UTAH 84405  
TEL: (801) 621-3100 www.reeve-assoc.com  
LAND PLANNERS • CIVIL ENGINEERS • LAND SURVEYORS  
TRAFFIC ENGINEERS • STRUCTURAL ENGINEERS • LANDSCAPE ARCHITECTS

DATE	DESCRIPTION
07-06-21	CK Drainage Design
07-20-21	CK Drainage Design
11-03-21	CK Site Layout
11-09-21	CK Commercial Lot

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**The Basin**  
WEBER COUNTY, UTAH

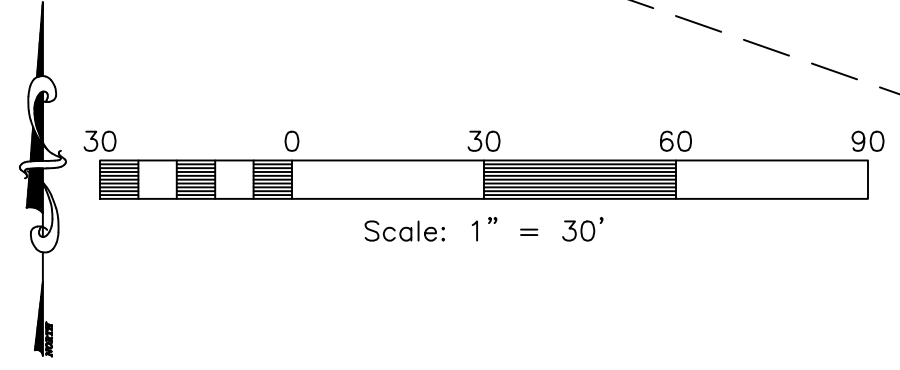
**Cover/Index Sheet**



**Project Info.**

Engineer: JEREMY A. DRAPER, P.E.  
 Drafter: C. KINGSLEY  
 Begin Date: MAY 2021  
 Name: THE BASIN  
 Number: 7562-03



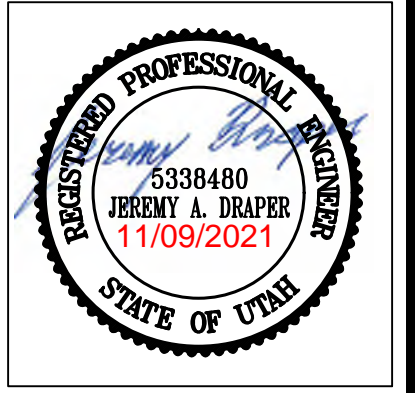


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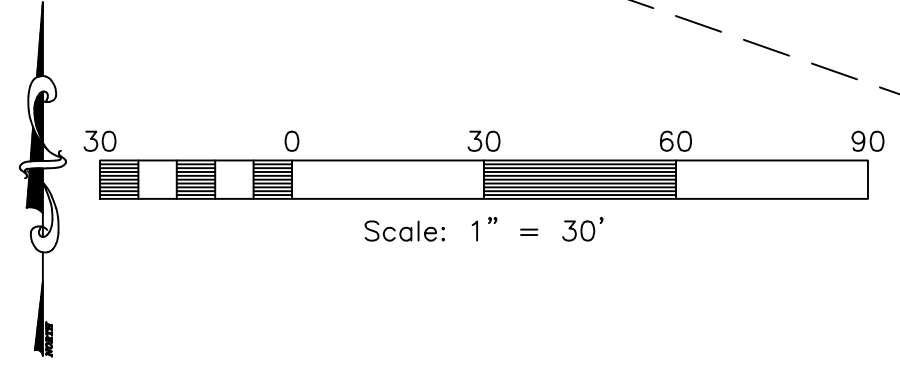
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REVISIONS	DATE	DESCRIPTION
07-06-21	CK	Drainage Design
07-20-21	CK	Drainage Design
11-03-21	CK	Site Layout
11-09-21	CK	Commercial Lot

**The Basin**  
 WEBER COUNTY, UTAH  
**Existing Site & Demolition Plan**



**Project Info.**  
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 Drafter: C. KINGSLEY  
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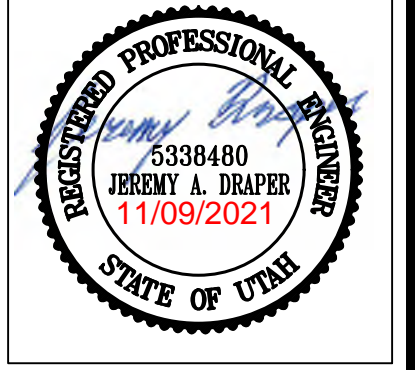


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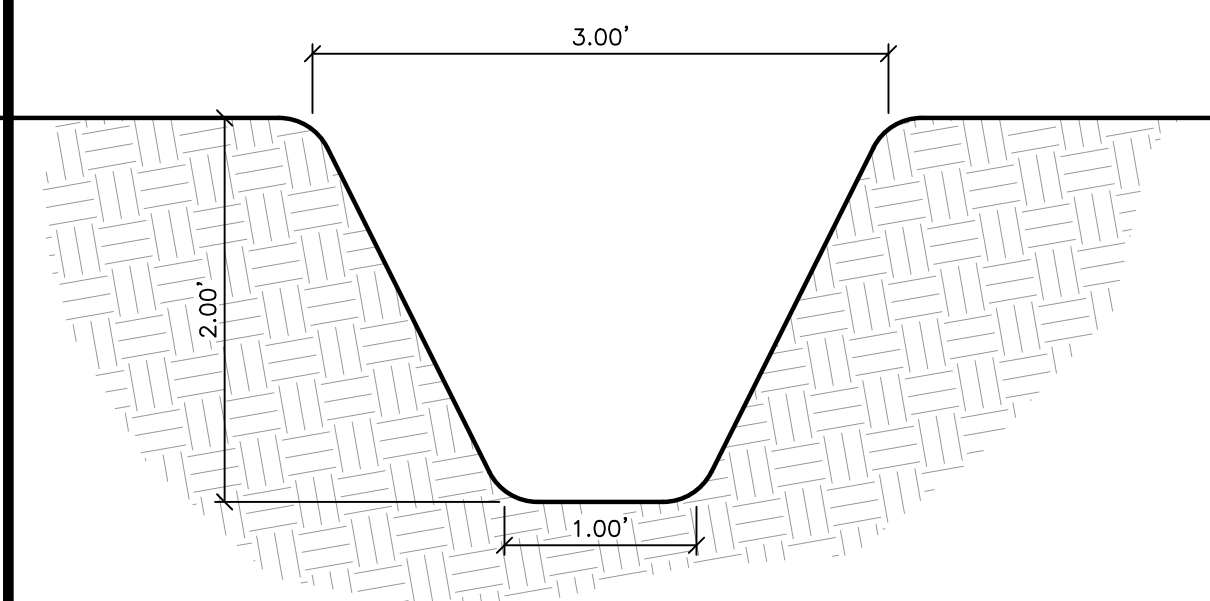
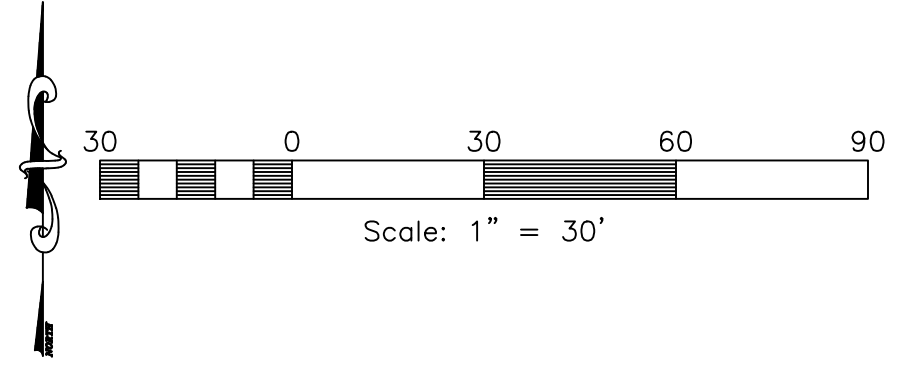
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**The Basin**  
WEBER COUNTY, UTAH

**Proposed Site Plan**



**Project Info.**  
Engineer: JEREMY A. DRAPER, P.E.  
Drafted: C. KINGSLEY  
Begin Date: MAY 2021  
Name: THE BASIN  
Number: 7562-03



**Drainage Swale Detail**  
NTS

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**NORTH BASIN**  
4976.50 HIGH WATER  
4973.00 TOP LID (300 CF)  
4972.75 BOTTOM

9833 CF-300 CF=  
9533 CF (DETENTION VOLUME)

**SOUTHEAST BASIN**  
4984.00 HIGH WATER  
4982.30 TOP LID (2065 CF)  
4980.00 BOTTOM

5621 CF-2065 CF=  
3556 CF (DETENTION VOLUME)

**Storm Runoff Calculations**  
THE BASIN  
7562-03 6/16/2021

The following runoff calculations are based on the Rainfall - Intensity - Duration Frequency Curve for the Huntsville, UT area taken from the NOAA Atlas 14 database. Calculations have been completed for the 100-yr 24-hr storm event. Storm water runoff has been calculated for a fully developed site and limited to a release rate of 0.2 cfs/acre.

**SUMMARY:**

Drainage Area =	3.30 acre or	143,822 ft <sup>2</sup>	
Total Area =		43,776	C = 0.9
Runoff Coefficients		37,563	C = 0.8
30% Paved Area		62,483	C = 0.2
26% Roof			C = 0.60
43% Landscaped Area			
Weighted Runoff Coefficient			

**The required 100-yr storage volume is** **11,621** cubic feet

**The required LID Retention volume is** **2,363** cubic feet

<b>NORTH BASIN</b>	9533 CF DETENTION	
	300 CF LID	
<b>SOUTHEAST BASIN</b>	3556 CF DETENTION	
	2065 CF LID	
<b>TOTAL VOLUMES</b>	13089 CF DETENTION	
	2365 CF LID	

NORTH BASIN					
ELEV	AREA (sq. ft.)	DEPT H (ft)	CONIC INC. VOL. (cu. ft.)	CONIC TOTAL VOL. (cu. ft.)	
4,972.75	1,308.66	0.00	0.00	0.00	
4,973.00	1,094.19	0.25	299.96	299.96	LID
4,974.00	2,015.51	1.00	1531.58	1831.54	
4,975.00	2,964.70	1.00	2474.89	4306.43	
4,976.00	3,934.64	1.00	3438.25	7744.68	
4,976.50	4,425.53	0.50	2088.84	9833.52	HIGH WATER
4,977.00	4,920.86	0.50	2335.50	12169.03	
4,977.50	5,428.83	0.50	2586.38	14755.41	FREEBOARD

SOUTHEAST BASIN					
ELEV	AREA (sq. ft.)	DEPT H (ft)	CONIC INC. VOL. (cu. ft.)	CONIC TOTAL VOL. (cu. ft.)	
4,980.00	335.45	N/A	N/A	0.00	
4,981.00	808.81	1.00	555.05	555.05	
4,982.00	1,364.07	1.00	1074.42	1629.46	
4,982.30	1,543.86	0.30	435.91	2065.37	LID
4,983.00	1,986.83	0.70	1232.49	3297.86	
4,984.00	2,676.90	1.00	2323.31	5621.17	HIGH WATER
4,985.00	3,441.43	1.00	3051.17	8672.34	FREEBOARD

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RA

REVISIONS	DATE	DESCRIPTION
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07-20-21	CK	Drainage Design
11-03-21	CK	Site Layout
11-09-21	CK	Commercial Lot

**The Basin**

WEBER COUNTY, UTAH

Grading & Drainage Plan

REGISTERED PROFESSIONAL ENGINEER

5338480

JEREMY A. DRAPER

11/09/2021

STATE OF UTAH

**Project Info.**

Engineer: JEREMY A. DRAPER, P.E.

Drafter: C. KINGSLEY

Begin Date: MAY 2021

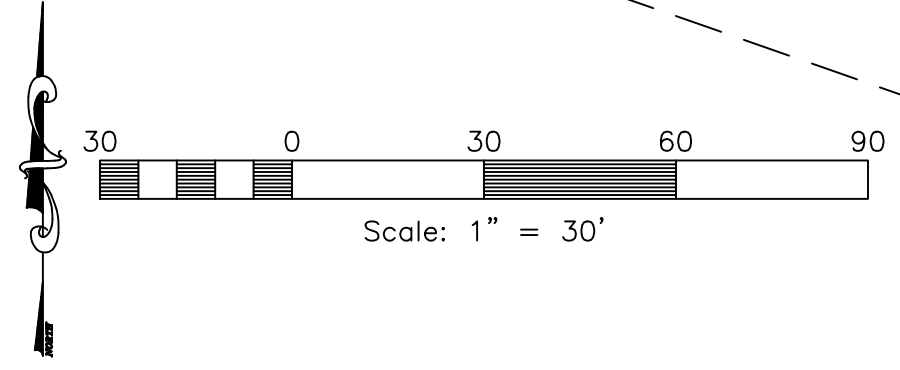
Name: THE BASIN

Number: 7562-03

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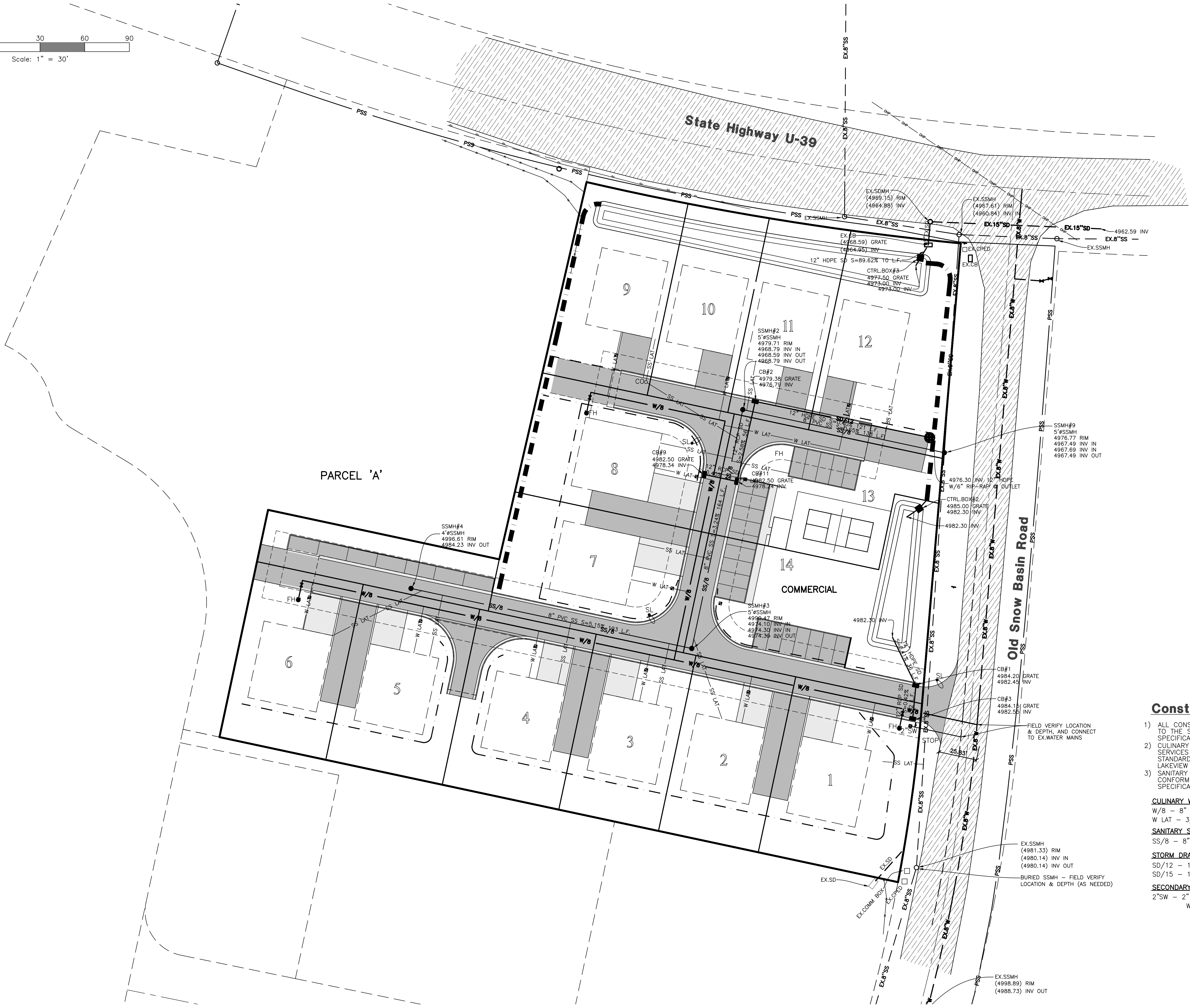
11

Total Sheets



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**Construction Notes:**

- 1) ALL CONSTRUCTION IS TO CONFORM TO THE STANDARD DRAWINGS AND SPECIFICATIONS OF WEBER COUNTY.
- 2) CULINARY & SECONDARY WATER SERVICES TO CONFORM TO THE STANDARDS & SPECIFICATIONS OF LAKEVIEW WATER.
- 3) SANITARY SEWER SERVICES TO CONFORM TO THE STANDARDS & SPECIFICATIONS OF MOUNTAIN SEWER.

**CULINARY WATER**  
 W/8 - 8" PVC DR14 C-900 WATER LINE  
 W/LAT - 3/4" POLY WATER LATERAL

**SANITARY SEWER**  
 SS/8 - 8" PVC SDR-35 SEWER LINE

**STORM DRAIN**  
 SD/12 - 12" RCP STORM DRAIN  
 SD/15 - 15" RCP STORM DRAIN

**SECONDARY WATER**  
 2"SW - 2" PVC C-900 SECONDARY WATER LINE

Old Snow Basin Road

State Highway U-39

PARCEL 'A'

COMMERCIAL

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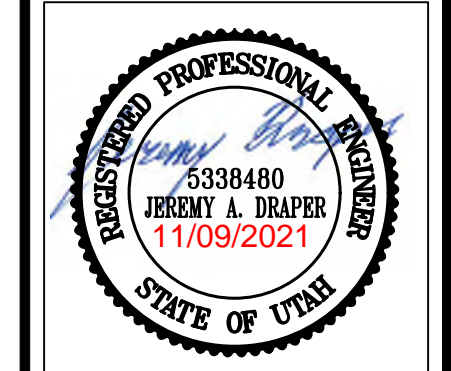
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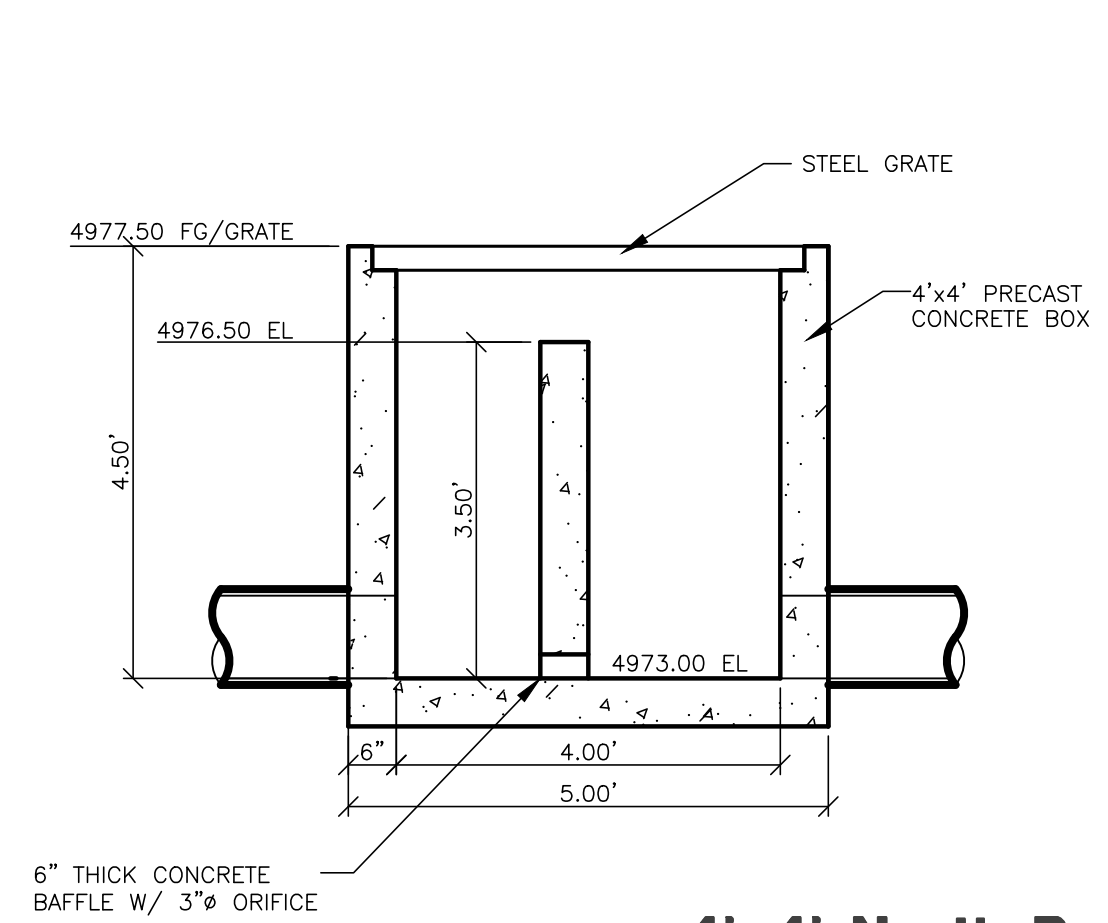
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**The Basin**  
 WEBER COUNTY, UTAH

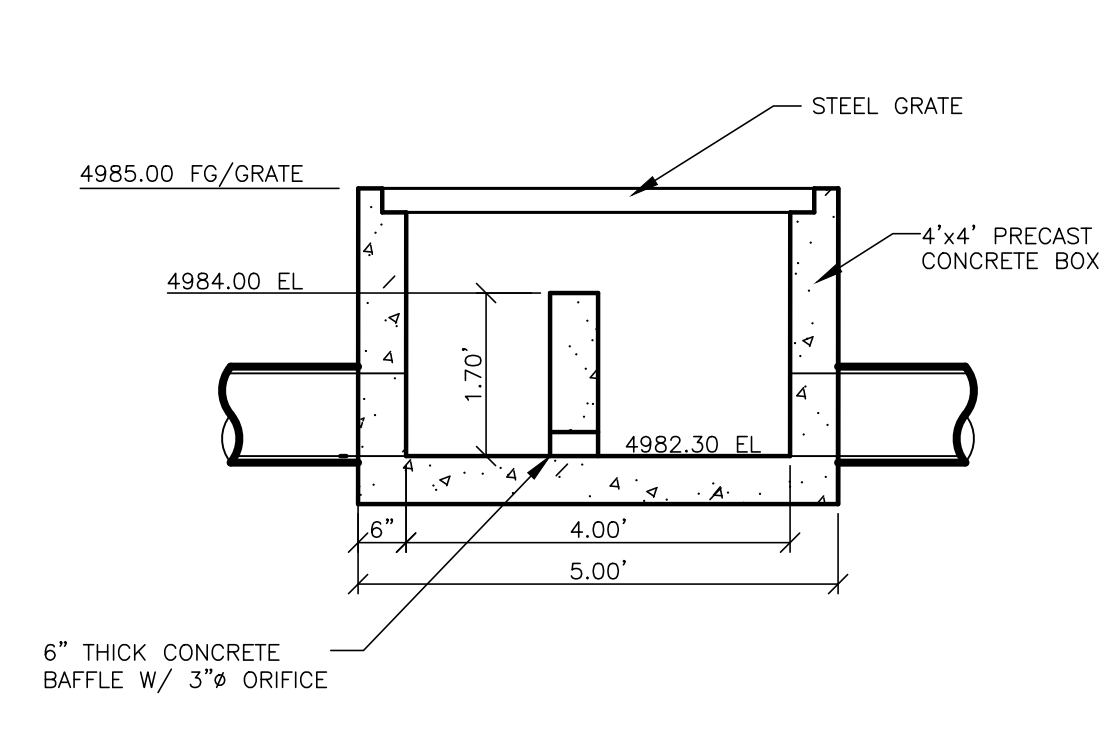
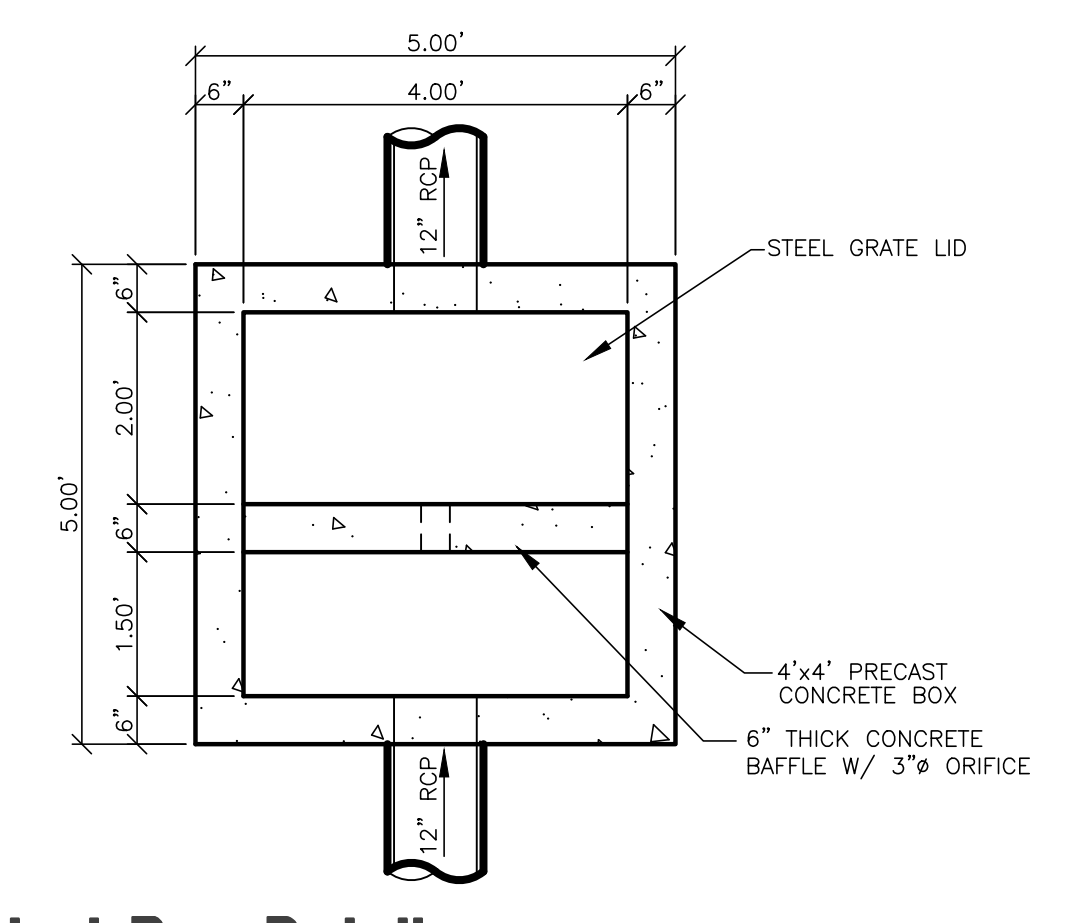
**Utility Plan**



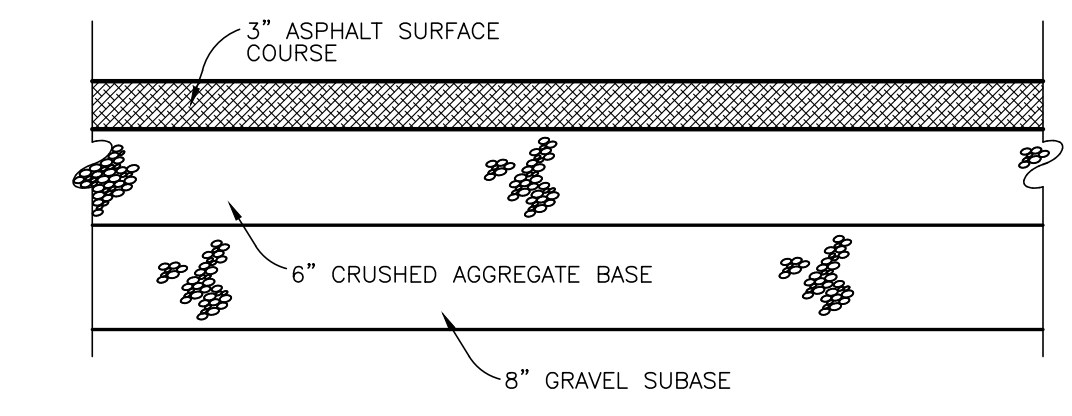
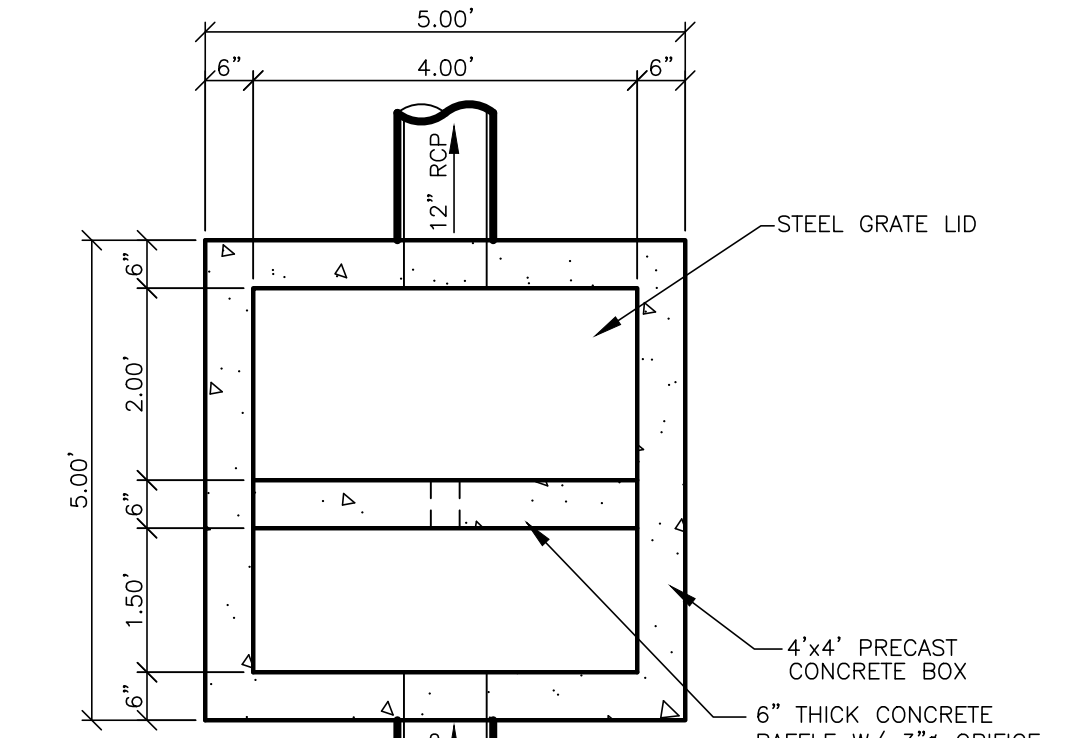
**Project Info.**  
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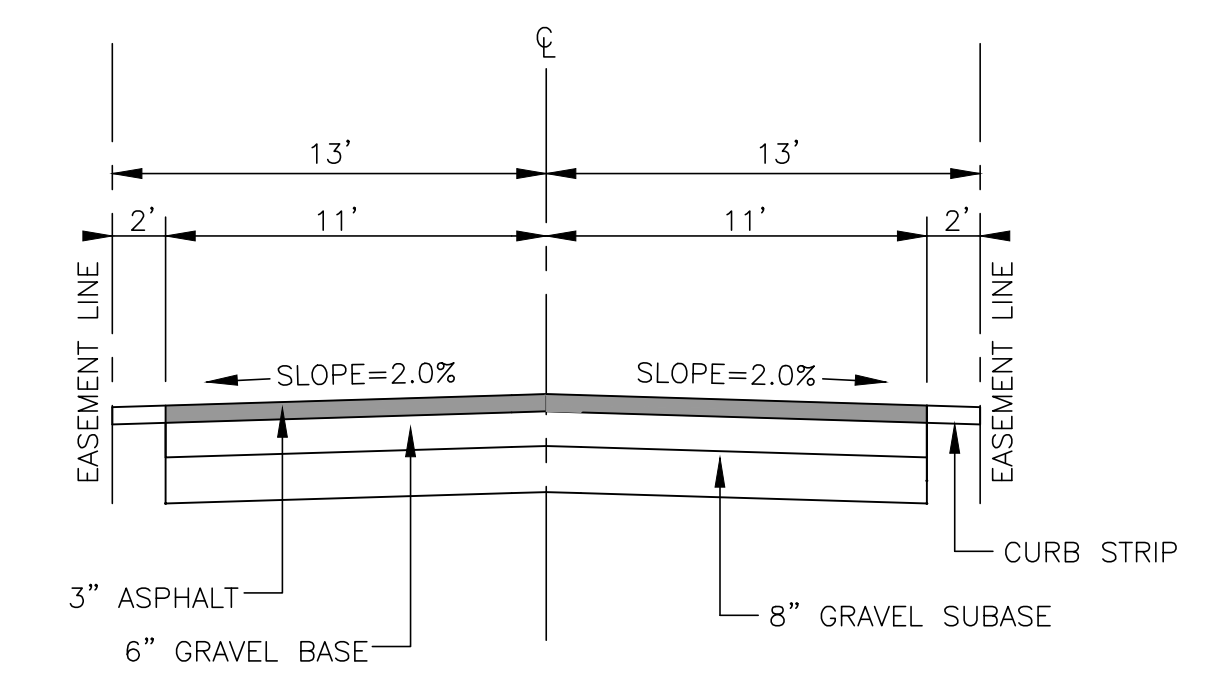
**4'x4' North Basin Control Box Detail**  
SCALE: 1"=2'



**4'x4' Southeast Basin Control Box Detail**  
SCALE: 1"=2'



(REFER TO THE SITE SPECIFIC GEOTECHNICAL REPORT; GEOTECHNICAL REPORT TO GOVERN & CONTROL.)  
**Typical On-Site Asphalt Paving**  
SCALE: NONE



**26' Private Roadway**  
SCALE: NONE



**Storm Runoff Calculations**  
THE BASIN  
7562-03 6/16/2021

The following runoff calculations are based on the Rainfall - Intensity - Duration Frequency Curve for the Huntsville, UT area taken from the NOAA Atlas 14 database. Calculations have been completed for the 100-yr 24-hr storm event. Storm water runoff has been calculated for a fully developed site and limited to a release rate of 0.2 cfs/acre.

**Southeast Basin**  
The calculations are as follows:

<b>Drainage Area:</b>			
Total Area =	0.92 acre or	39,899 ft <sup>2</sup>	
<b>Runoff Coefficients</b>			
21% Paved Area	8,250	C = 0.9	
27% Roof	10,800	C = 0.9	
52% Landscaped Area	20,849	C = 0.2	
Weighted Runoff Coefficient		C = 0.53	

**LID Retention**

80 <sup>th</sup> Percentile Rainfall Event	0.45	in
Is the site Feasible for LID?	Yes	
Site Imperviousness	0.48	
NRCS Soil Group	C/D	
Rv Equation	0.83*(1.122)	
R <sub>v</sub>	0.36	
V <sub>pond</sub>	542	c.f.

**Volume of Run-off for 100-year Storm Event:**

C =	0.53
I =	See Below in/hr
A =	39896.61 ft <sup>2</sup>
Q(ave) =	0.18 ft <sup>3</sup> /s

time (min)	time (sec)	i (in./hr.)	Q (cfs)	Vol. in (cf)	Vol. out (cf)	Difference (cf)
0	0	0.00	0.00	0	0	0
5	300	7.48	3.69	1107	55	1052
10	600	5.68	2.90	1681	110	1572
15	900	4.7	2.32	2087	165	1922
30	1800	3.16	1.56	2806	330	2477
60	3600	1.96	0.97	3481	659	2822
120	7200	1.13	0.56	4014	1319	2695
180	10800	0.777	0.38	4140	1978	2162
360	21600	0.437	0.22	4657	3957	700
720	43200	0.275	0.14	5861	7914	-2052
1440	86400	0.158	0.08	6735	15828	-9092

**Orifice Sizing**

Given:	Q = 0.18 cfs
	Zg = 64.4 ft/s <sup>2</sup>
	H = 3.00 ft
	Cd = 0.62 (Estimate)
	R = SQRT(Q/pi*(0.7*(64.4*H)^0.5))
	R = 0.08 feet
	D = 0.99 inches
	A = 1.97 inches
	A = 3.06 inches *2
	0.0213 ft *2

**SUMMARY:**

The required 100-yr storage volume is	2,822	cubic feet
The required LID Retention volume is	542	cubic feet
Orifice size is	3	inches



**Storm Runoff Calculations**  
THE BASIN  
7562-03 6/16/2021

The following runoff calculations are based on the Rainfall - Intensity - Duration Frequency Curve for the Huntsville, UT area taken from the NOAA Atlas 14 database. Calculations have been completed for the 100-yr 24-hr storm event. Storm water runoff has been calculated for a fully developed site and limited to a release rate of 0.2 cfs/acre.

**North Basin**  
The calculations are as follows:

<b>Drainage Area:</b>			
Total Area =	2.39 acre or	103,923 ft <sup>2</sup>	
<b>Runoff Coefficients</b>			
34% Paved Area	35,527	C = 0.9	
26% Roof	26,763	C = 0.9	
40% Landscaped Area	41,634	C = 0.2	
Weighted Runoff Coefficient		C = 0.62	

**LID Retention**

80 <sup>th</sup> Percentile Rainfall Event	0.45	in
Is the site Feasible for LID?	Yes	
Site Imperviousness	0.60	
NRCS Soil Group	C/D	
Rv Equation	0.83*(1.122)	
R <sub>v</sub>	0.47	
V <sub>pond</sub>	1821	c.f.

**Volume of Run-off for 100-year Storm Event:**

C =	0.62
I =	See Below in/hr
A =	103923.34 ft <sup>2</sup>
Q(ave) =	0.48 ft <sup>3</sup> /s

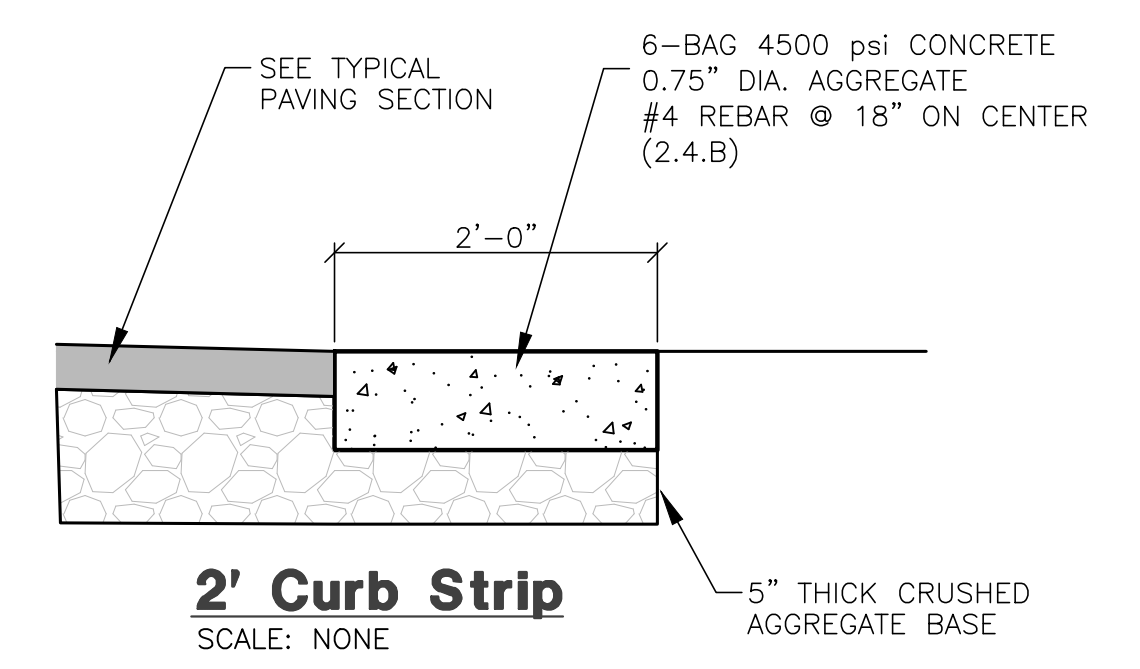
time (min)	time (sec)	i (in./hr.)	Q (cfs)	Vol. in (cf)	Vol. out (cf)	Difference (cf)
0	0	0.00	0.00	0	0	0
5	300	7.48	11.15	3345	143	3201
10	600	5.68	8.47	5079	286	4793
15	900	4.7	7.01	6305	429	5875
30	1800	3.16	4.71	8478	859	7619
60	3600	1.96	2.92	10517	1718	8799
120	7200	1.13	1.68	12126	3435	8691
180	10800	0.777	1.16	12507	5153	7354
360	21600	0.437	0.65	14059	10306	3762
720	43200	0.275	0.41	17706	20613	-2906
1440	86400	0.158	0.24	20346	41226	-20879

**Orifice Sizing**

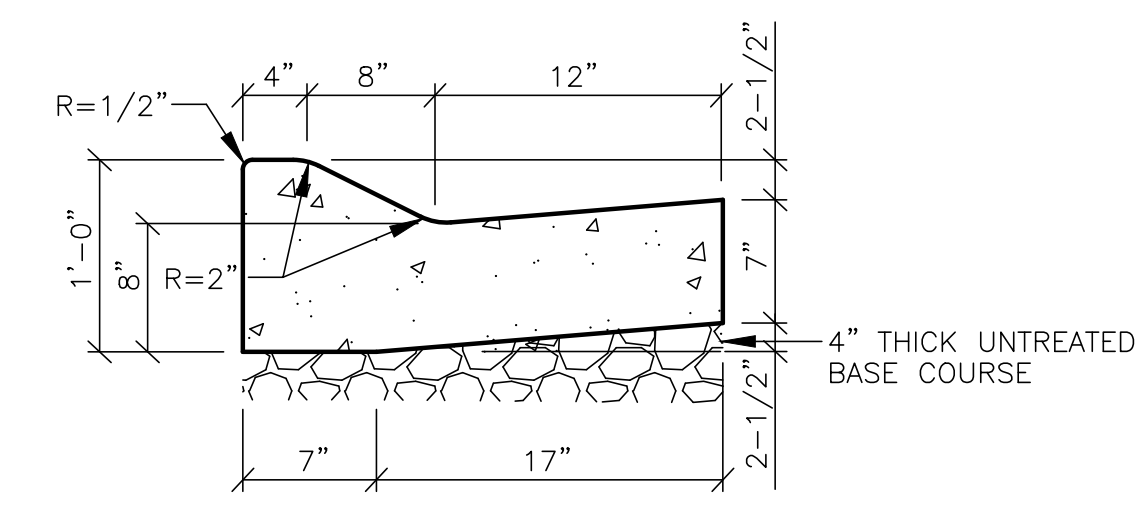
Given:	Q = 0.48 cfs
	Zg = 64.4 ft/s <sup>2</sup>
	H = 3.00 ft
	Cd = 0.62 (Estimate)
	R = SQRT(Q/pi*(0.7*(64.4*H)^0.5))
	R = 0.13 feet
	D = 1.59 inches
	A = 3.19 inches
	A = 7.98 inches *2
	0.0554 ft *2

**SUMMARY:**

The required 100-yr storage volume is	8,799	cubic feet
The required LID Retention volume is	1,821	cubic feet
Orifice size is	3	inches



**2' Curb Strip**  
SCALE: NONE



**24' Mountable Curb & Gutter**  
SCALE: NONE

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**RA**

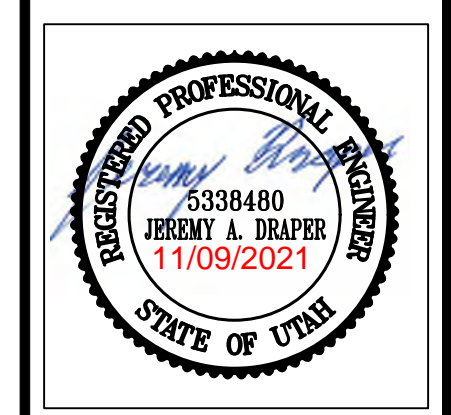
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**The Basin**  
WEBER COUNTY, UTAH

**Civil Details**



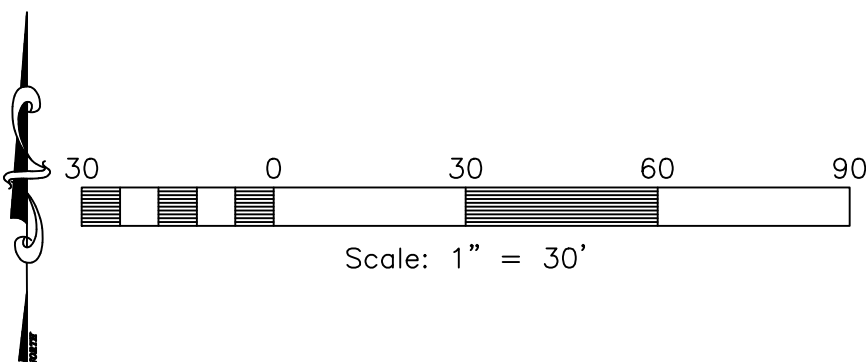
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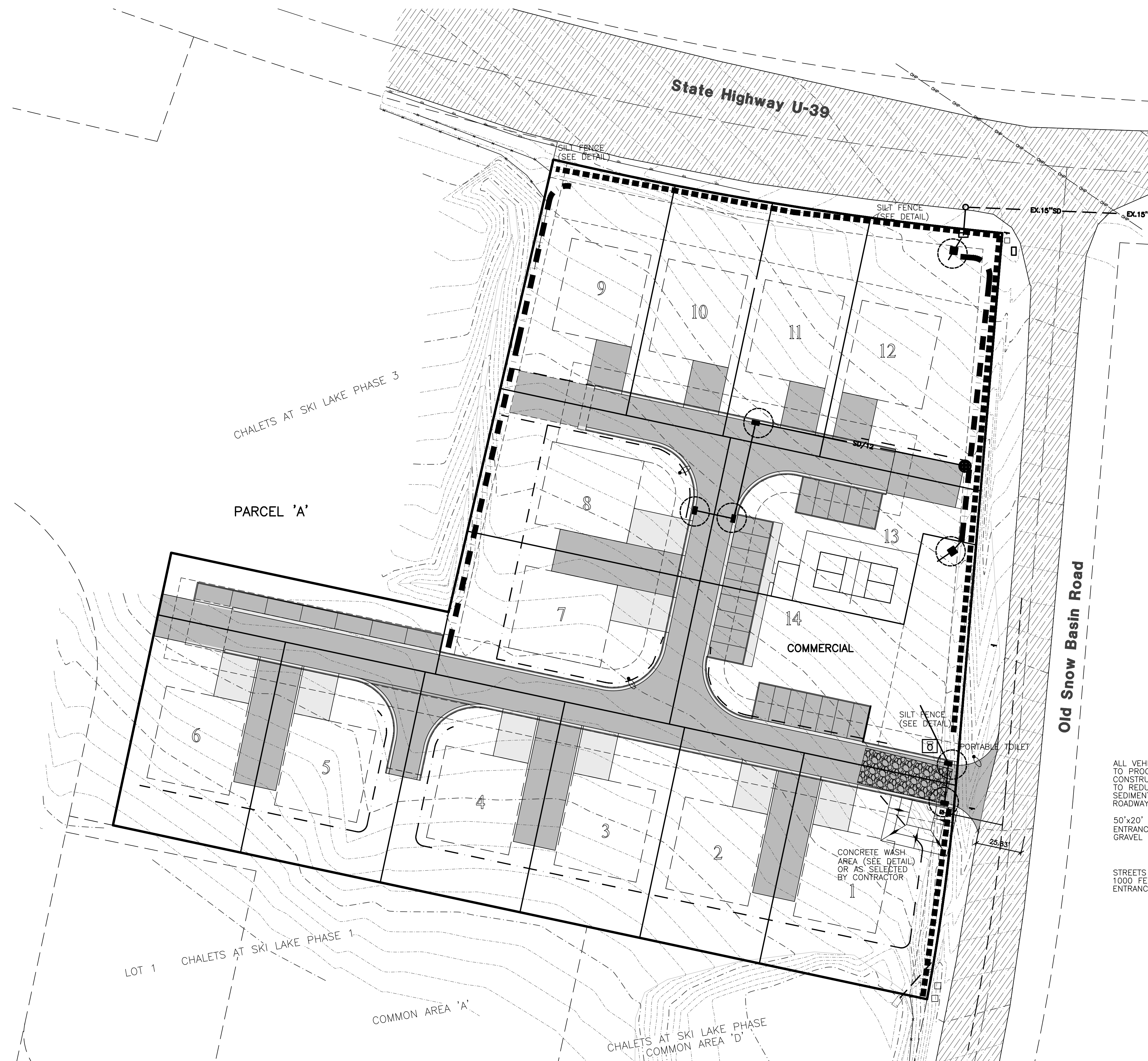
# The Basin

## Storm Water Pollution Prevention Plan Exhibit

WEBER COUNTY, UTAH  
MAY 2021



Vicinity Map  
NOT TO SCALE



- PORTABLE TOILET
- INLET PROTECTION TYP. (SEE DETAIL)
- SILT FENCE (SEE DETAIL)

ALL VEHICLES EXITING SITE TO PROCEED THROUGH CONSTRUCTION ENTRANCE TO REDUCE AMOUNTS OF SEDIMENT TRACKED ONTO ROADWAYS.

50'x20' CONSTRUCTION ENTRANCE W/8" CLEAN GRAVEL

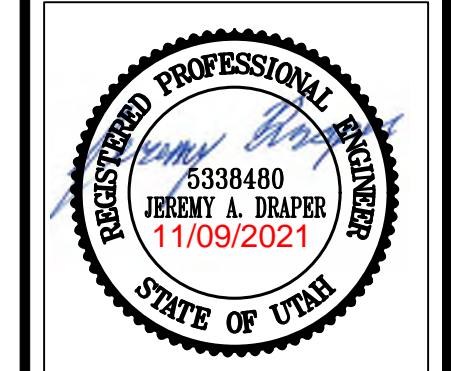
STREETS TO BE SWEEP WITHIN 1000 FEET OF CONSTRUCTION ENTRANCE DAILY IF NECESSARY

Construction Activity Schedule	
- PROJECT LOCATION.....	WEBER COUNTY, UTAH
- PROJECT BEGINNING DATE.....	JUNE 2021
- BMP'S DEPLOYMENT DATE.....	JUNE 2021
- STORM WATER MANAGEMENT CONTACT / INSPECTOR.....	COLIN WRIGHT (801) 725-9079
- SPECIFIC CONSTRUCTION SCHEDULE INCLUDING BMP CONSTRUCTION SCHEDULE TO BE INCLUDED WITH SWPPP BY OWNER/DEVELOPER	

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 5160 SOUTH 1500 WEST, RIVERDALE, UTAH 84405  
 TEL: (801) 621-3100 www.reeve-assoc.com  
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 TRAFFIC ENGINEERS • STRUCTURAL ENGINEERS • LANDSCAPE ARCHITECTS

DATE	DESCRIPTION
07-06-21	CK Drainage Design
07-20-21	CK Drainage Design
11-03-21	CK Site Layout
11-09-21	CK Commercial Lot

**The Basin**  
 WEBER COUNTY, UTAH  
**Storm Water Pollution Prevention Plan Exhibit**

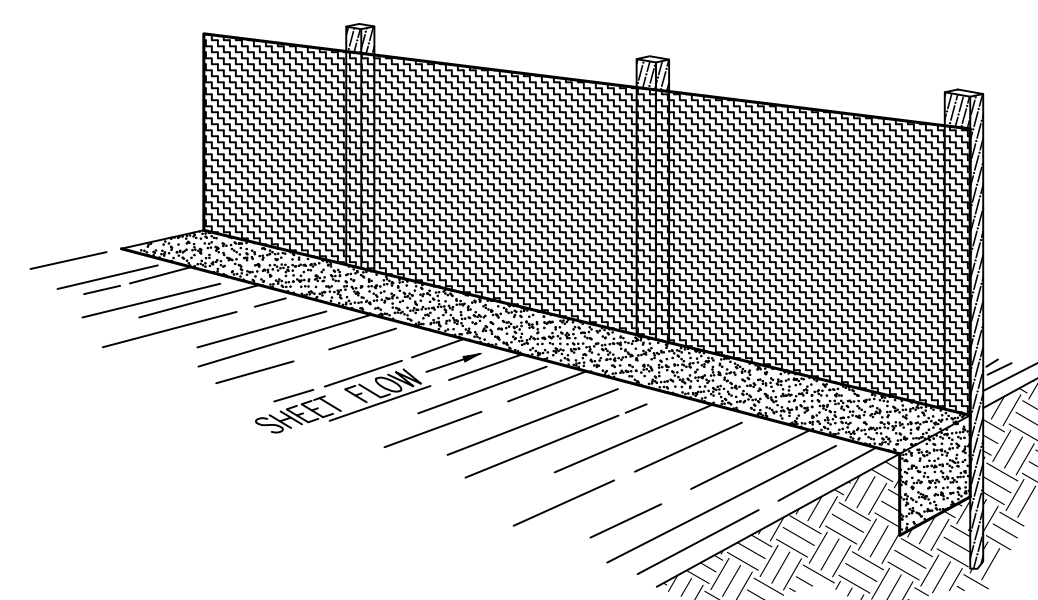


<b>Project Info.</b>	
Engineer:	JEREMY A. DRAPER, P.E.
Drafter:	C. KINGSLEY
Begin Date:	MAY 2021
Name:	THE BASIN
Number:	7562-03



**Notes:**

- Describe all BMP's to protect storm water inlets:  
All storm water inlets to be protected by straw wattle barriers, or gravel bags (see detail).
- Describe BMP's to eliminate/reduce contamination of storm water from:
  - Equipment / building / concrete wash areas:  
To be performed in designated areas only and surrounded with silt fence barriers.
  - Soil contaminated by soil amendments:  
If any contaminants are found or generated, contact environmental engineer and contacts listed.
  - Areas of contaminated soil:  
If any contaminants are found or generated, contact environmental engineer and contacts listed.
  - Fueling area:  
To be performed in designated areas only and surrounded with silt fence.
  - Vehicle maintenance areas:  
To be performed in designated areas only and surrounded with silt fence.
  - Vehicle parking areas:  
To be performed in designated areas only and surrounded with silt fence.
  - Equipment storage areas:  
To be performed in designated areas only and surrounded with silt fence.
  - Materials storage areas:  
To be performed in designated areas only and surrounded with silt fence.
  - Waste containment areas:  
To be performed in designated areas only and surrounded with silt fence.
  - Service areas:  
To be performed in designated areas only and surrounded with silt fence.
- BMP's for wind erosion:  
Stockpiles and site as needed to be watered regularly to eliminate / control wind erosion
- Construction Vehicles and Equipment:
  - Maintenance
    - Maintain all construction equipment to prevent oil or other fluid leaks.
    - Keep vehicles and equipment clean; prevent excessive build-up of oil and grease.
    - Regularly inspect on-site vehicles and equipment for leaks, and repair immediately.
    - Check incoming vehicles and equipment (including delivery trucks, and employee and subcontractor vehicles) for leaking oil and fluids. Do not allow leaking vehicles or equipment on-site.
    - Segregate and recycle wastes, such as greases, used oil or oil filters, antifreeze, cleaning solutions, automotive batteries, hydraulic, and transmission fluids.
  - Fueling
    - If fueling must occur on-site, use designated areas away from drainage.
    - Locate on-site fuel storage tanks within a bermed area designed to hold the tank volume.
    - Cover retention area with an impervious material and install in a manner to ensure that any spills will be contained in the retention area. To catch spills or leaks when removing or changing fluids.
    - Use drip pans for any oil or fluid changes.
  - Washing
    - Use as little water as possible to avoid installing erosion and sediment controls for the wash area.
    - If washing must occur on-site, use designated, bermed wash areas to prevent waste water discharge into storm water, creeks, rivers, and other water bodies.
    - Use phosphate-free, biodegradable soaps.
    - Do not permit steam cleaning on-site.
- Spill Prevention and Control
  - Minor Spills:  
Minor spills are those which are likely to be controlled by on-site personnel. After contacting local emergency response agencies, the following actions should occur upon discovery of a minor spill:
    - Contain the spread of the spill.
    - If the spill occurs on paved or impermeable surfaces, clean up using "dry" methods (i.e. absorbent materials, cat litter, and / or rags).
    - If the spill occurs in dirt areas, immediately contain the spill by constructing an earth dike. Dig up and properly dispose of contaminated soil.
    - If the spill occurs during rain, cover the impacted area to avoid runoff.
    - Record all steps taken to report and contain spill.
  - Major Spills:  
On-site personnel should not attempt to control major spills until the appropriate and qualified emergency response staff have arrived at the site. For spills of federal reportable quantities, also notify the National Response Center at (800) 424-8802. A written report should be sent to all notified authorities. Failure to report major spills can result in significant fines and penalties.
- Post Roadway / Utility Construction
  - Maintain good housekeeping practices.
  - Enclose or cover building material storage areas.
  - Properly store materials such as paints and solvents.
  - Store dry and wet materials under cover, away from drainage areas.
  - Avoid mixing excess amounts of fresh concrete or cement on-site.
  - Perform washout of concrete trucks offsite or in designated areas only.
  - Do not wash out concrete trucks into storm drains, open ditches, streets or streams.
  - Do not place material or debris into streams, gutters or catch basins that stop or reduce the flow of runoff water.
  - All public streets and storm drain facilities shall be maintained free of building materials, mud and debris caused by grading or construction operations. Roads will be swept within 1000' of construction entrance daily, if necessary.
  - Install straw wattle around all inlets contained within the development and all others that receive runoff from the development.
- Erosion Control Plan Notes
  - The contractor will designate an emergency contact that can be reached 24 hours a day 7 days a week. A stand-by crew for emergency work shall be available at all times during potential rain or snow runoff events. Necessary materials shall be available on site and stockpiled at convenient locations to facilitate rapid construction of emergency devices when rain or runoff is eminent.
  - Erosion control devices shown on the plans and approved for the project may not be removed without approval of the engineer of record. If devices are removed, no work may continue that have the potential of erosion without consulting the engineer of record. If deemed necessary erosion control should be reestablished before this work begins.
  - Graded areas adjacent to fill slopes located at the site perimeter must drain away from the top of the slope at the conclusion of each working day. This should be confirmed by survey or other means acceptable to the engineer of record.
  - All silt and debris shall be removed from all devices within 24 hours after each rain or runoff event.
  - Except as otherwise approved by the inspector, all removable protective devices shown shall be in place at the end of each working day and through weekends until removal of the system is approved.
  - All loose soil and debris, which may create a potential hazard to offsite property, shall be removed from the site as directed by the engineer of record of the governing agency.
  - The placement of additional devices to reduce erosion damage within the site is left to the discretion of the engineer of record.
  - Desilting basins may not be removed or made inoperable without the approval of the engineer of record and the governing agency.
  - Erosion control devices will be modified as need as the project progresses and plans of these changes submitted for approval by the engineer of record and the governing agency.
- Conduct a minimum of one inspection of the erosion and sediment controls every two weeks. Maintain documentation on site.
  - Part III.D.4 of general permit UTRC00000 identifies the minimum inspection requirements.
  - Part III.D.4.C identifies the minimum inspection report requirements.
  - Failure to complete and/or document storm water inspections is a violation of part III.D.4 of Utah General Permit UTR 300000.



**Perspective View**

Figure 2

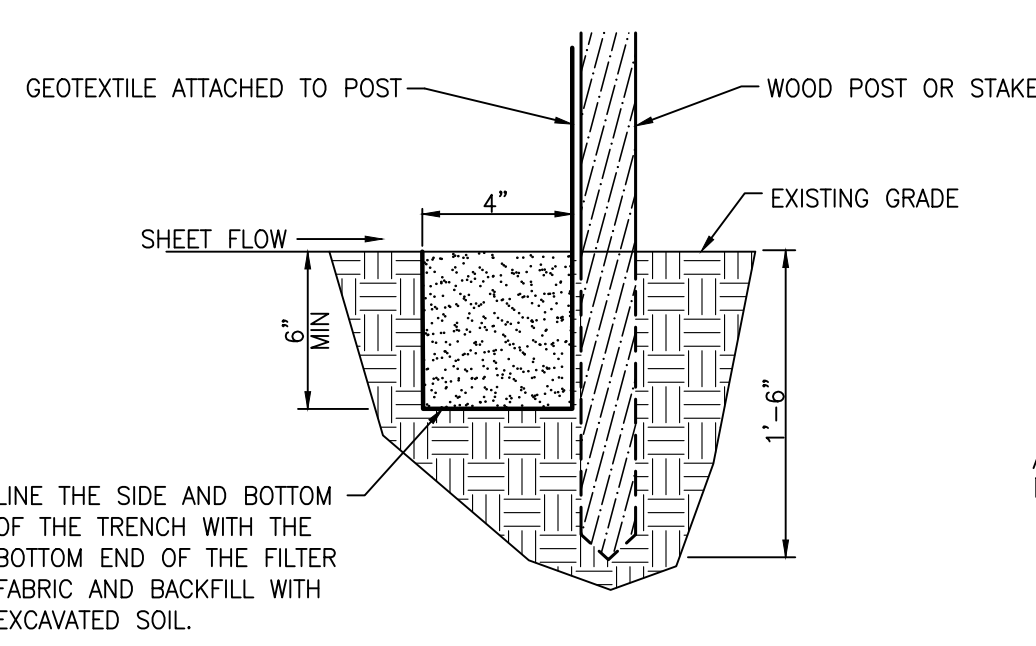
**INSTALLATION**

The silt fence should be installed prior to major soil disturbances in the drainage area. The fence should be placed across the slope along a line of uniform elevation wherever flow of sediment is anticipated. Table 1 shows generally-recommended maximum slope lengths (slope spacing between fences) at various site grades for most silt fence applications.

Slope Steepness (%)	Max. Slope Length m (ft)
<2%	30.5m (100ft)
2-5%	22.9m (75ft)
5-10%	15.2m (50ft)
10-20%	7.6m (25ft)
>20%	4.5m (15ft)

**PREFABRICATED SILT FENCE ROLLS**

- Excavate a minimum 15.2cm x 15.2cm (6"x6") trench at the desired location.
- Unroll the silt fence, positioning the post against the downstream wall of the trench.
- Adjacent rolls of silt fence should be joined by nesting the end post of one fence into the other. Before nesting the end posts, rotate each post until the geotextile is wrapped completely around the post, then abut the end posts to create a tight seal as shown in Figure 1.
- Drive posts into the ground until the required fence height and/or anchorage depth is obtained.
- Bury the loose geotextile at the bottom of the fence in the upstream trench and backfill with natural soil, tamping the backfill to provide good compaction and anchorage. Figure 2 illustrates a typical silt fence installation and anchor trench placement.



**Section**

**FIELD ASSEMBLY:**

- Excavate a minimum 15.2cm x 15.2cm (6"x6") trench at the desired location.
- Drive wooden posts, or steel posts with fastening projections, against the downstream wall of the trench. Maximum post spacing should be 2.4-3.0m (8-10ft). Post spacing

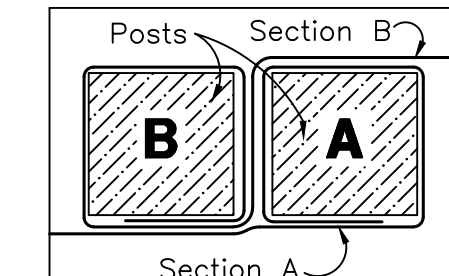
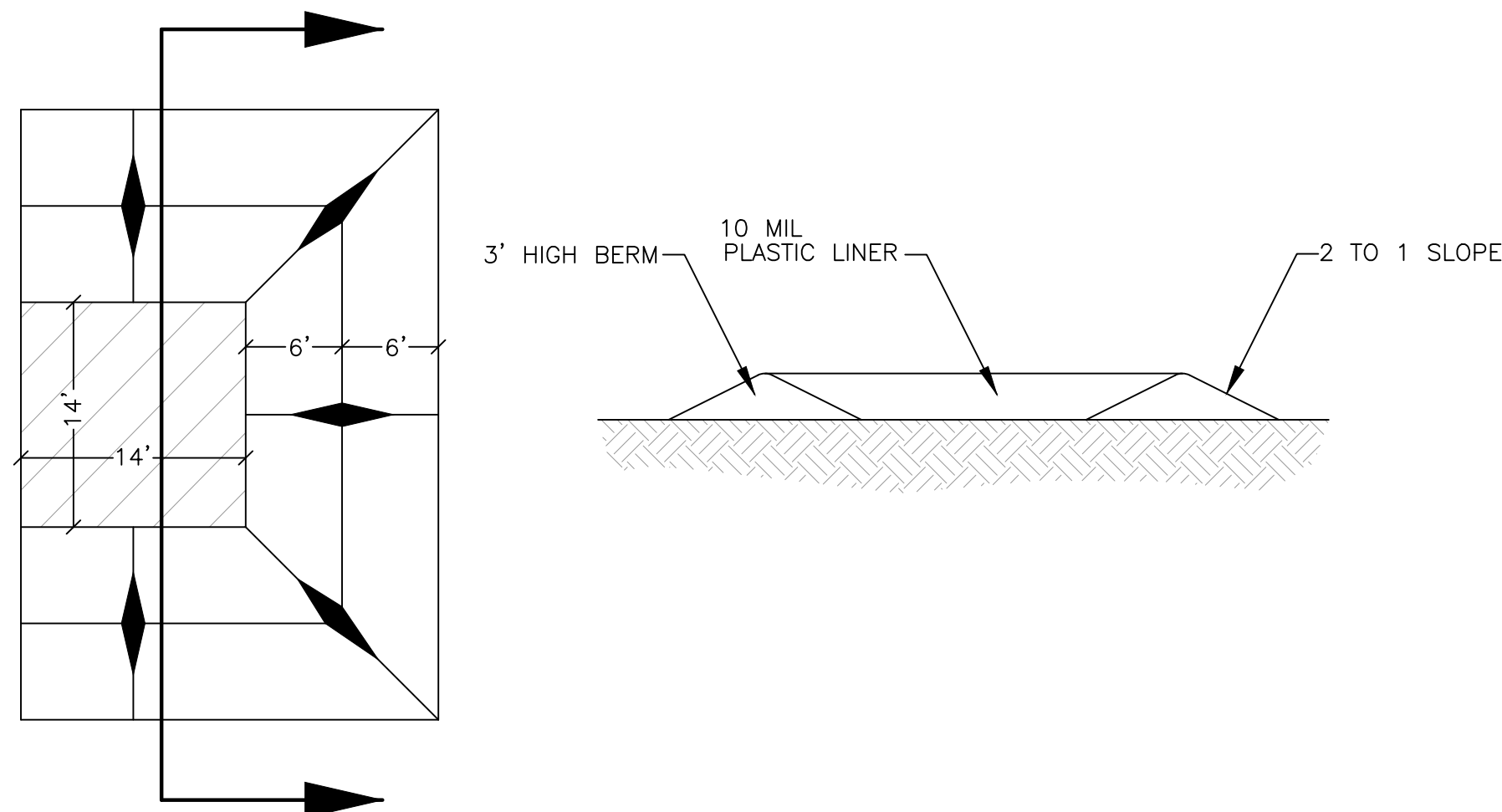


Figure 1: Top View of Roll-to-Roll Connection

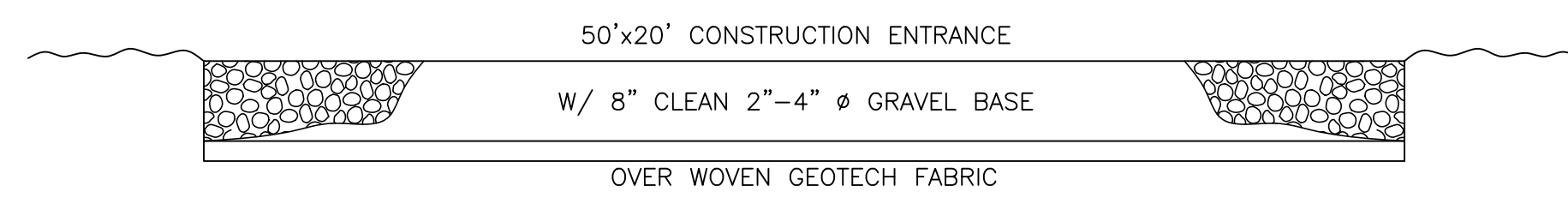
**Silt Fence Detail**

SCALE: NONE

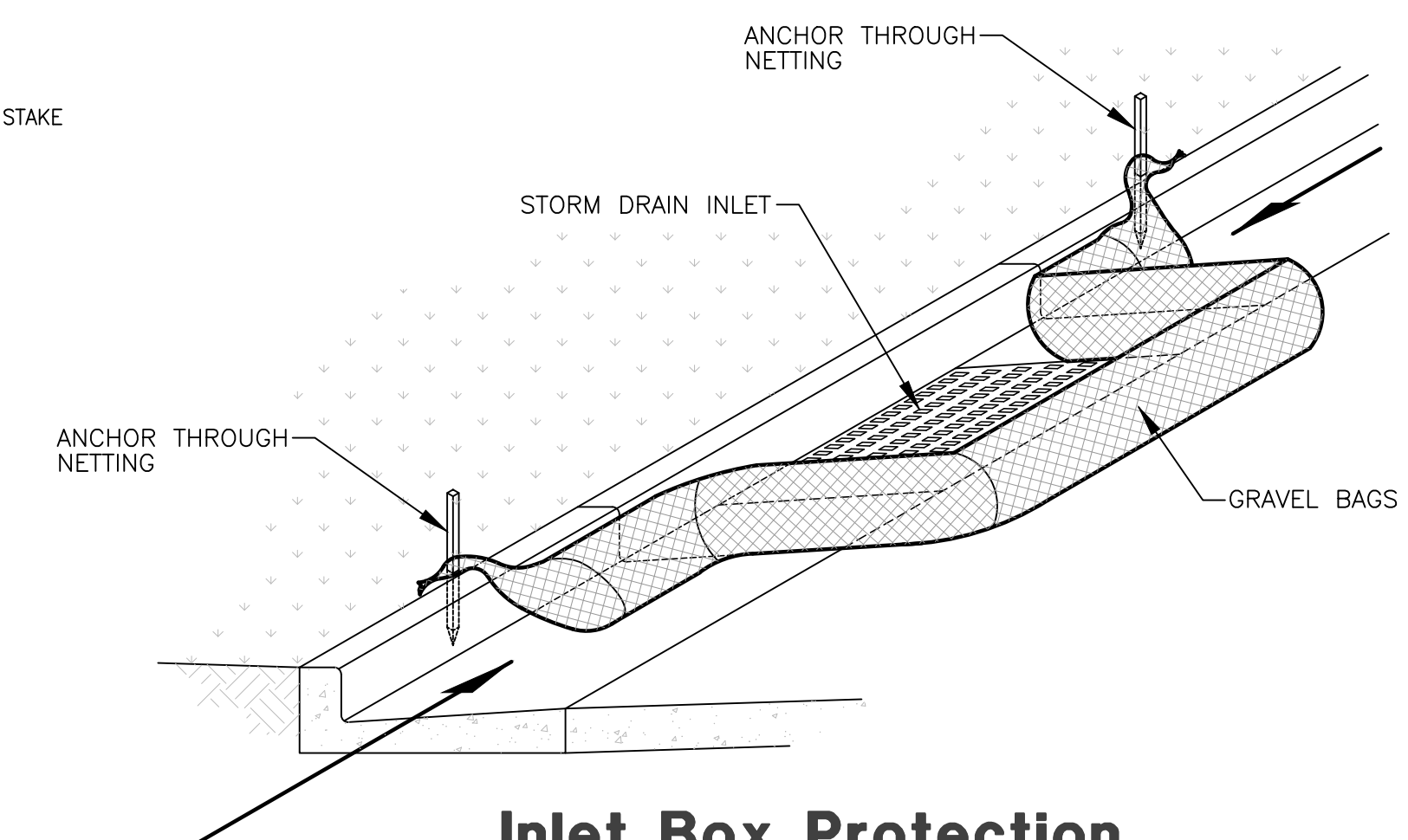


**Concrete Washout Area w/ 10 mil Plastic Liner**

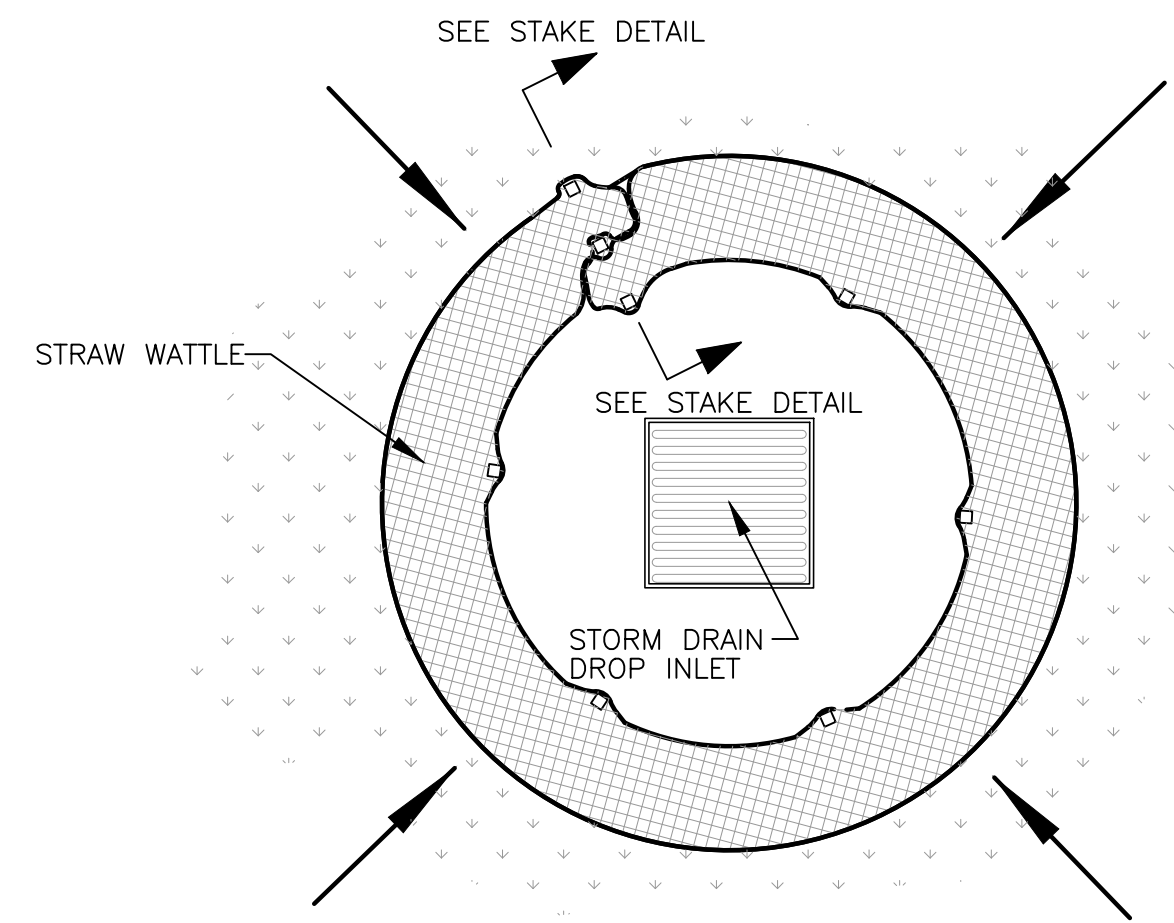
SCALE: NONE



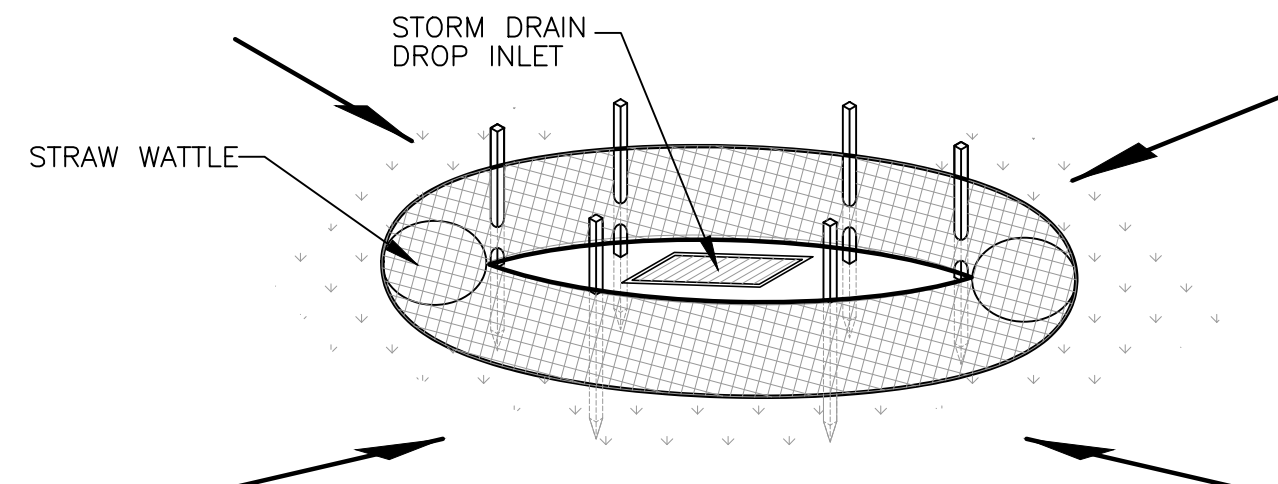
**Cross Section 50' x 20' Construction Entrance**



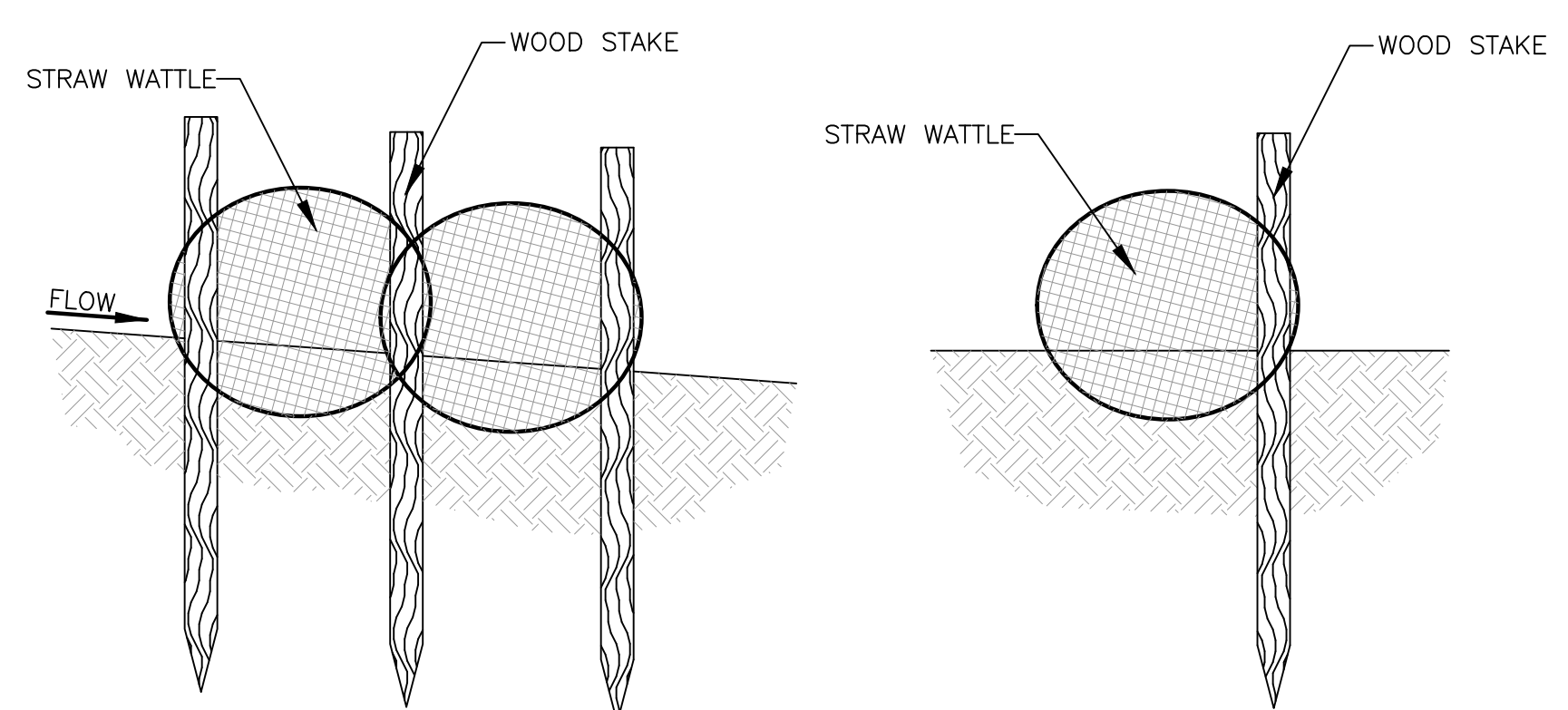
**Inlet Box Protection**



**Plan View**



**Drop Inlet Protection**



**Stake Detail**

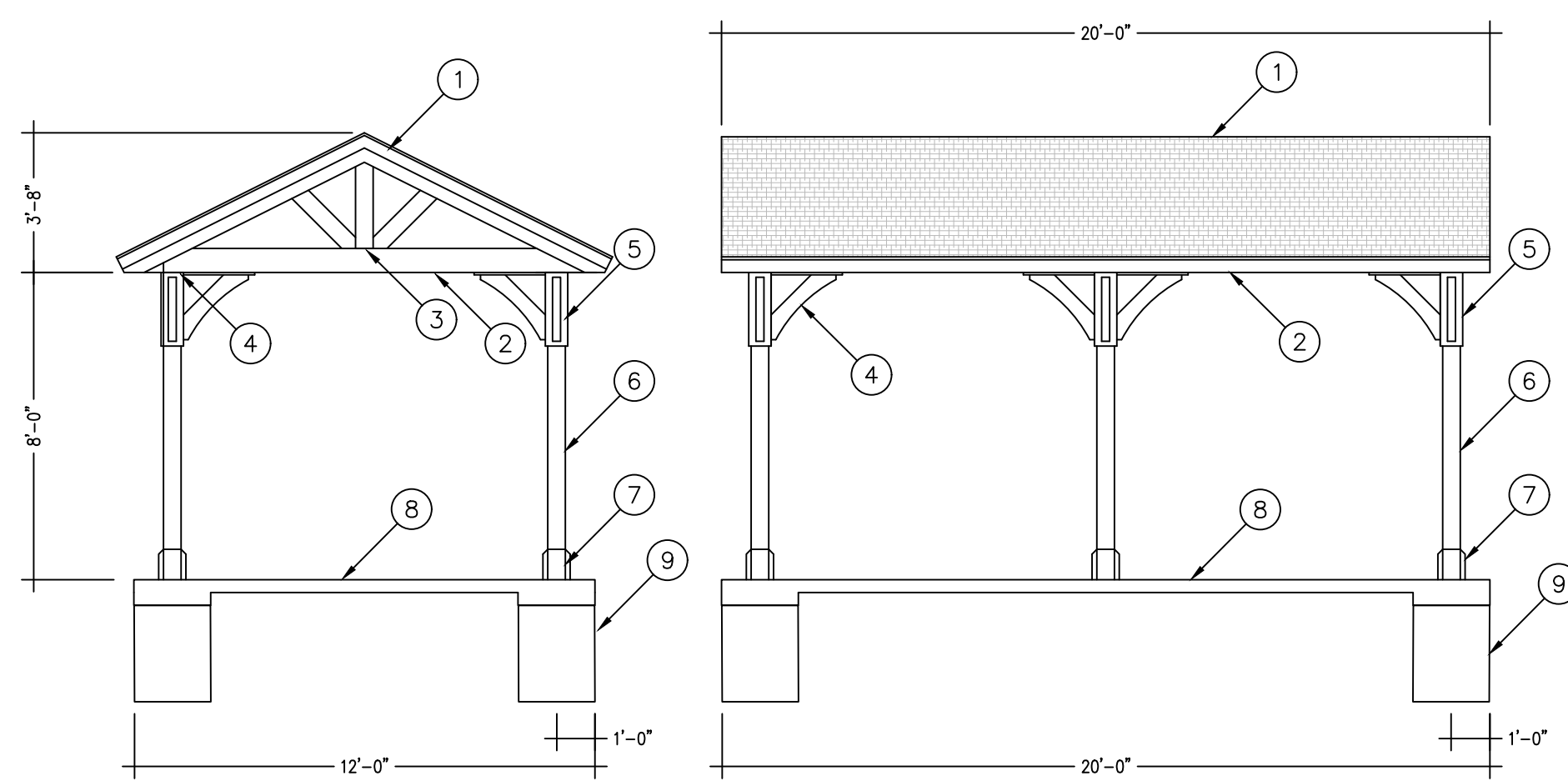
**Reeve & Associates, Inc.**  
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REVISIONS	DATE	DESCRIPTION
07-06-21	CK	Drainage Design
07-20-21	CK	Drainage Design
11-03-21	CK	Site Layout
11-09-21	CK	Commercial Lot

**The Basin**  
 WEBER COUNTY, UTAH  
**Storm Water Pollution Prevention Plan Details**

REGISTERED PROFESSIONAL ENGINEER  
 538480  
 JEREMY A. DRAPER  
 11/09/2021  
 STATE OF UTAH

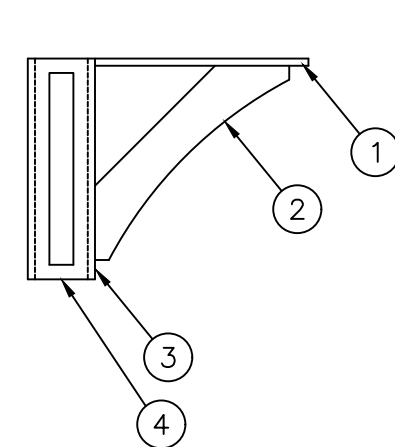
**Project Info.**  
 Engineer: JEREMY A. DRAPER, P.E.  
 Drafter: C. KINGSLEY  
 Begin Date: MAY 2021  
 Name: THE BASIN  
 Number: 7562-03



- 1 1"x8" T&G WOOD WITH ASPHALT ARCHITECTURAL SHINGLES AND DRIP EDGE- COLOR PER OWNER
- 2 2"x8" JOIST
- 3 2"x12" BEAM
- 4 POST TO BEAM CONNECTION - SEE DETAIL
- 5 DECORATIVE DETAIL - SEE CORBEL DETAIL
- 6 6"x6" CEDAR POST
- 7 DECORATIVE DETAIL - SEE FOOTING DETAIL
- 8 CONCRETE - 4" THICK WITH #4 REBAR 18" OC EW, FIBER REINFORCED WITH THICKENED EDGE
- 9 FOOTING - SEE DETAIL

**PAVILION**

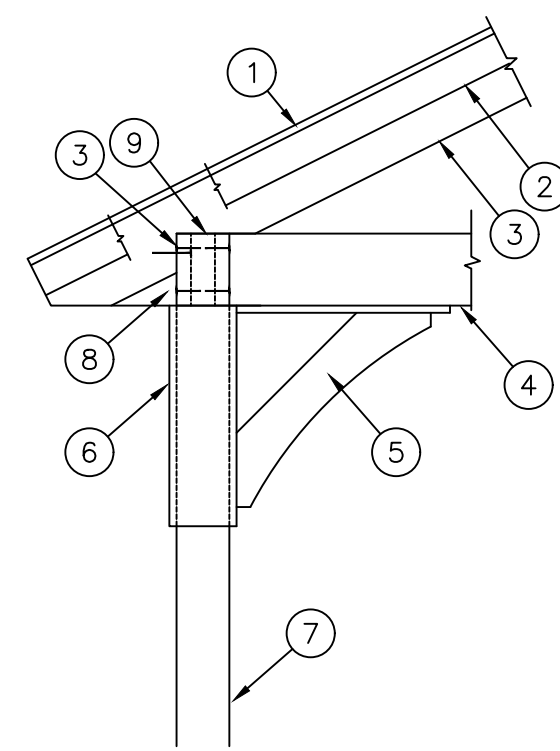
NTS



- 1 WOOD - 1"x6" - ANCHOR TO BEAM/JOIST
- 2 CORBEL - 2"x6" WITH CURVED EDGE
- 3 WOOD - 1"x6" - ANCHOR TO POST AND MATCH DECORATIVE TRIM
- 4 DECORATIVE TRIM - 1"x2" ON OUTSIDE CORNERS OF PAVILION

**CORBEL**

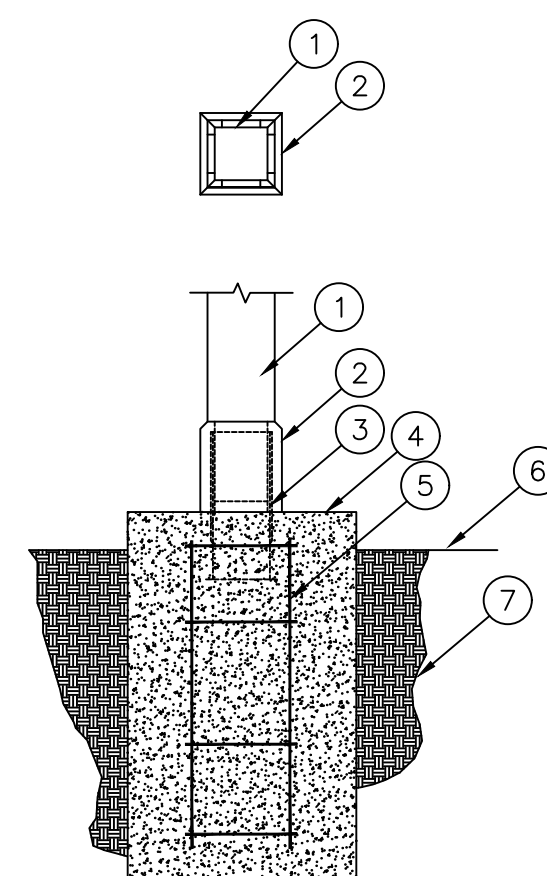
NTS



- 1 ROOF
- 2 DECORATIVE TRIM - 1"x6"
- 3 TRUSS - 2"x8"
- 4 JOIST - 2"x8"
- 5 CORBEL - SEE DETAIL
- 6 DECORATIVE TRIM - 1"x6"
- 7 WOOD POST
- 8 LAG BOLTS
- 9 WOOD POST TENON

**BEAM TO POST**

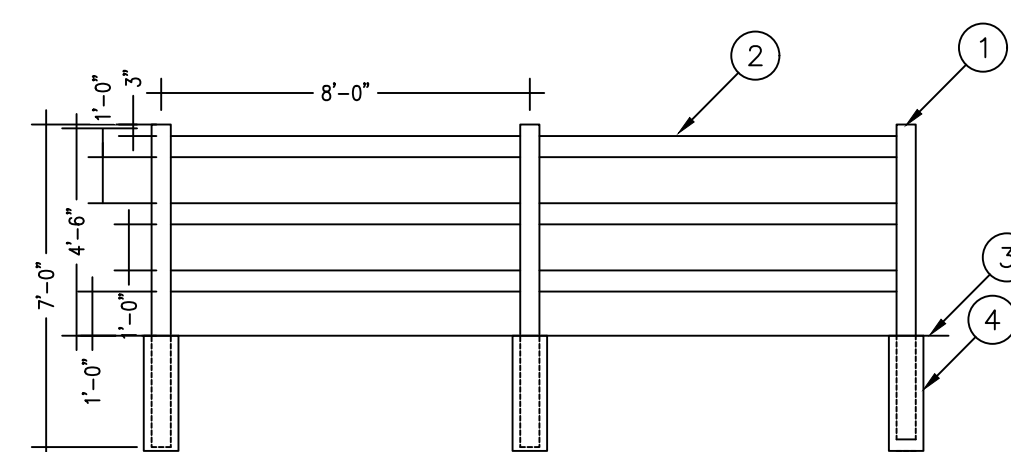
NTS



- 1 WOOD POST - 6"x6"
- 2 DECORATIVE TRIM - 2"x10" WITH CHAMFERED EDGES
- 3 ANCHOR -
- 4 CONCRETE FOOTING - SIZE PER STRUCTURAL
- 5 REBAR - PER STRUCTURAL
- 6 FINISH GRADE
- 7 COMPACTED SUBGRADE

**POST TO FOOTING**

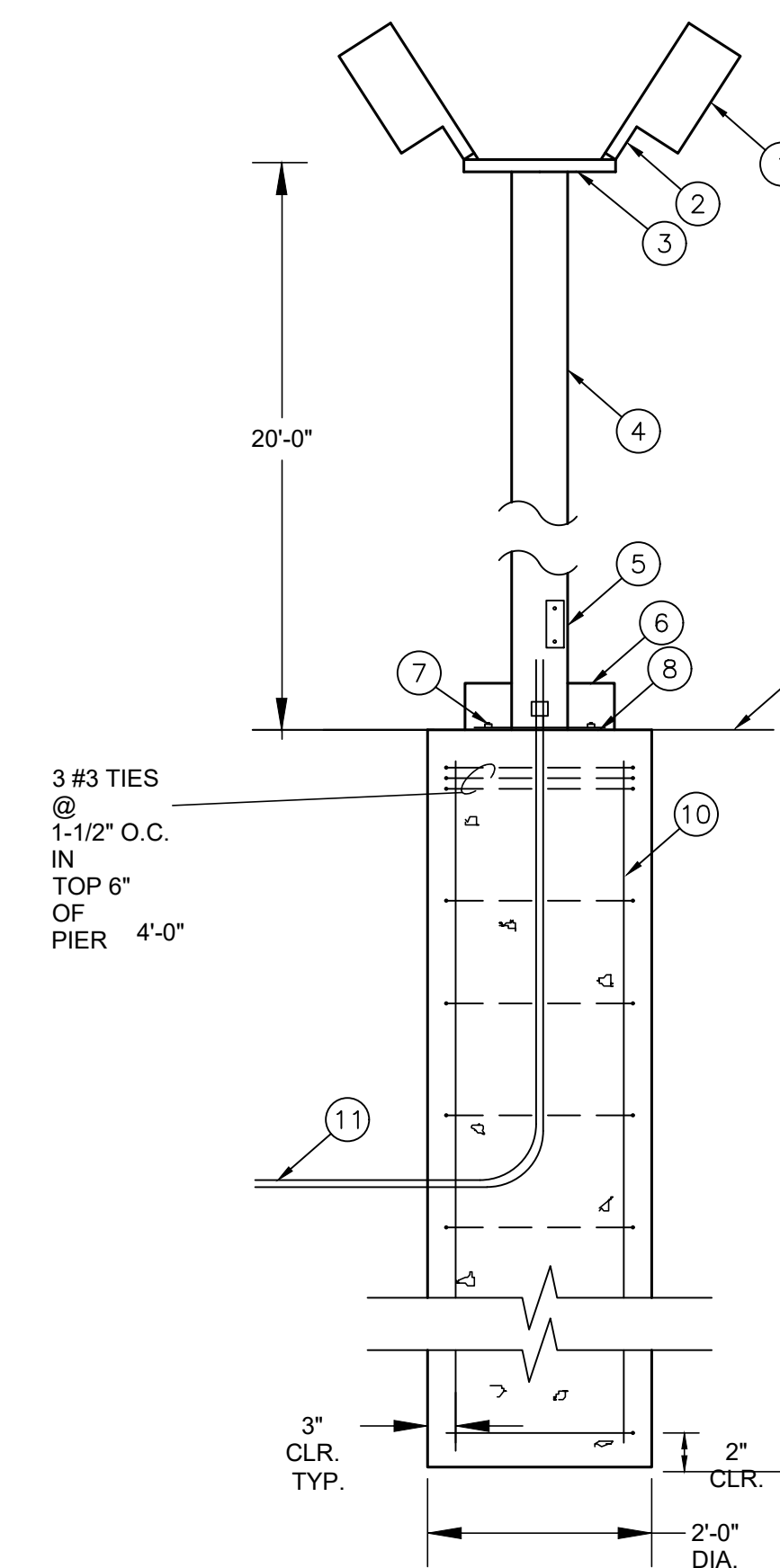
NTS



- 1 6"x6" CEDAR POST
- 2 2"x6" RAIL
- 3 FINISH GRADE
- 4 CONCRETE - 18"x30"

**POST AND RAIL FENCE**

NTS

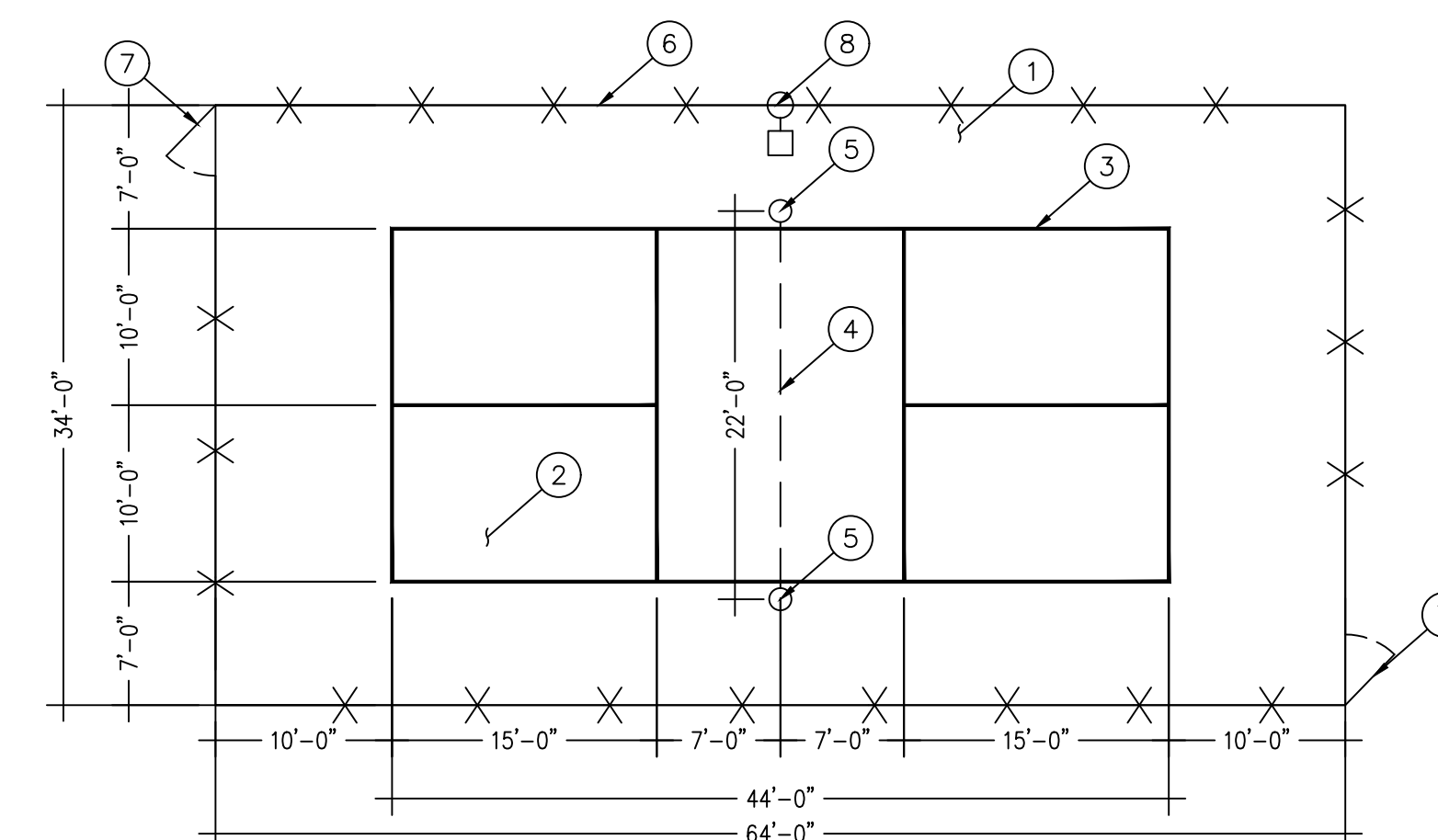


- 1 LED LIGHT FIXTURE 2X200 WATTS
- 2 ADJUSTABLE SLIP FITTER
- 3 POLE BRACKET
- 4 STEEL POLE - 4" X 11 GAUGE - 20' HT.
- 5 HANDHOLE WITH WEATHERPROOF GASKET
- 6 BASE COVER
- 7 ANCHOR BOLT - 1/2"x30"x3"
- 8 BASE PLATE - PER MANUFACTURER
- 9 FINISH GRADE
- 10 6 - #6 BARS VERT. W/#3 TIES @12" O.C. HORIZ.
- 11 RIGID PVC CONDUIT BELOW GRADE TO ELECTRICAL PANEL

**Light Pole & Base**

SCALE: NONE

NOTE:  
LED POLE KIT WITH TWO ADJUSTABLE 200 WATT LED LIGHTS 25' HEIGHT - LIGHTMART.COM



- 1 CONCRETE - 4" THICK WITH #4 REBAR 18" OC EW, FIBER REINFORCED WITH THICKENED EDGE
- 2 ACRYLIC-TEXTURED COURT SURFACING - ACRYLOTEX-PB
- 3 TEXTURED LINE PAINT - WHITE, 2" WIDTH
- 4 NET - 36" HEIGHT X 21'9" LENGTH
- 5 NET POST AND PVC GROUND SLEEVE - 2'-3/8" O.D. STEEL WITH CONCRETE FOOTING
- 6 CHAIN LINK FENCE - 6' HEIGHT
- 7 4' GATE - 6' HEIGHT
- 8 LED LIGHT AND POLE - SEE DETAIL

**PICKLEBALL COURT**

NTS

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REVISIONS	DATE	DESCRIPTION
	07-06-21	OK Drainage Design

**The Basin**  
 WEBER COUNTY, UTAH  
**Details**

**Project Info.**

Engineer:	NATHAN PETERSON
Drafter:	N. PETERSON
Begin Date:	MAY 2021
Name:	THE BASIN
Number:	7562-03