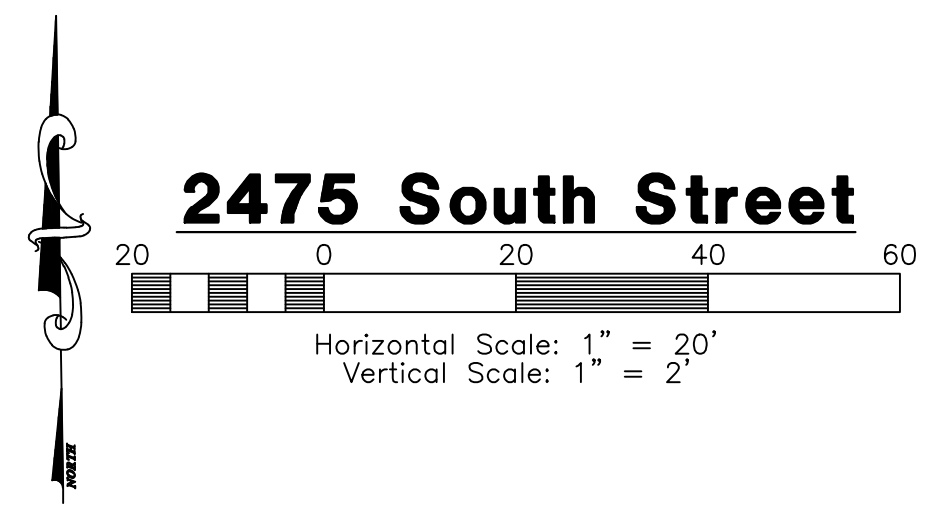


RETENTION #2 VOLUME CALCULATIONS
 HIGH WATER AREA (51.72') = 5,965 S.F.
 BOTTOM AREA (49.22') = 3,449 S.F.
 $[5,965 + 3,449] / 2 = 4,707$ S.F. AVG.
 4,707 S.F. x 2.5' DEEP = 11,767 C.F.
 11,767 C.F. > 10,878 C.F. (REQ'D.) = **OK**



2475 South Street

Storm Runoff Calculations
Mallard Springs Subdivision-Basin 2
 1/14/2014 SKT

The following runoff calculations are based on the Rainfall - Intensity - Duration Frequency Curve for the West Haven, UT area taken from data compiled by NOAA Atlas 14, using a 100 year storm.

Runoff storm water has been calculated for two different sets of conditions, one being the existing undeveloped land and the other with land fully improved. The difference between the two quantities will be retained in a holding pond

The calculations are as follows:

- Runoff from the undeveloped existing land.

Runoff Quantity	Q =	0 cfs
Acreage	A =	7.99 ACRES
Perc Rate		25.00 mpi
Q(out) =		0.00 CFS
- Runoff from developed land

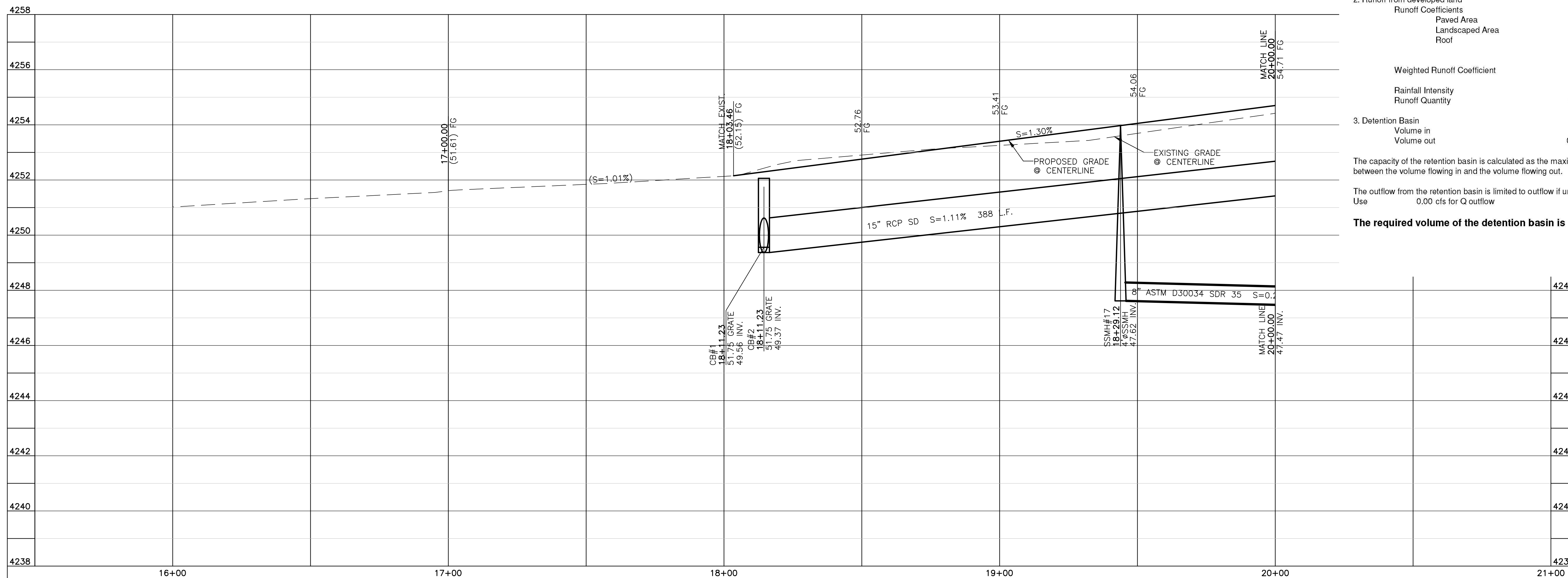
Runoff Coefficients		
Paved Area	37,984	C = 0.9
Landscaped Area	277,739	C = 0.2
Roof	32,409	C = 0.8
Weighted Runoff Coefficient		C = 0.33
Rainfall Intensity	i =	varies with time
Runoff Quantity	Q =	CiA
- Detention Basin

Volume in	Q * t
Volume out	0.00 * t

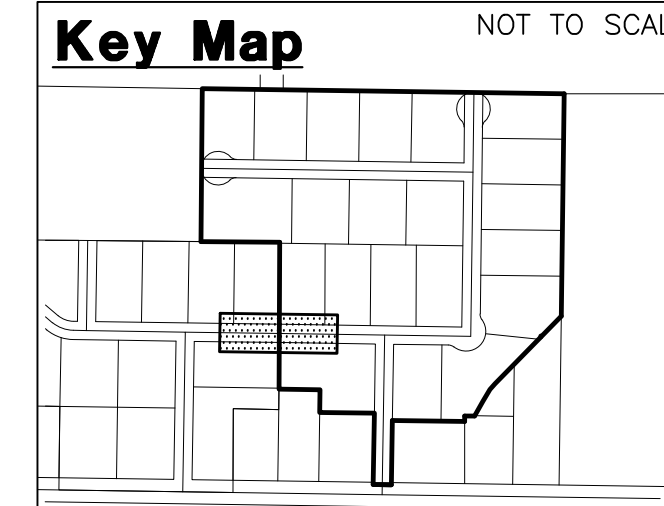
The capacity of the retention basin is calculated as the maximum difference between the volume flowing in and the volume flowing out.

The outflow from the retention basin is limited to outflow if undeveloped. Use 0.00 cfs for Q outflow

The required volume of the detention basin is 28,676 cubic feet



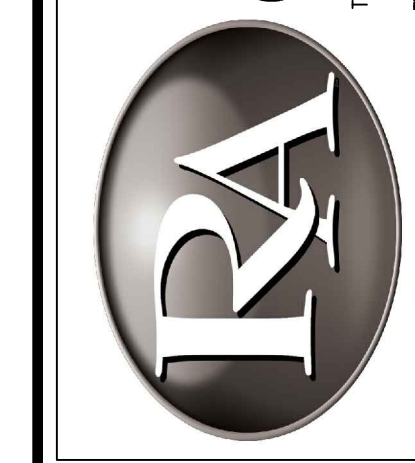
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 Two Working Days Before You Dig



Construction Notes:

- ALL CONSTRUCTION IS TO CONFORM TO THE STANDARD DRAWINGS AND SPECIFICATIONS OF WEBER COUNTY.
 - CONSTRUCT HANDICAP RAMP PER ADA AND CITY REQUIREMENTS.
- CULINARY WATER**
 W/8 - 8" PVC C-900 CLASS 200 WATER
- SANITARY SEWER**
 SS/8 - 8" ASTM D3034 SDR 35 SEWER
 SS/10 - 10" ASTM D3034 SDR 35 SEWER
- STORM DRAIN**
 SD/15 - 15" RCP STORM DRAIN
- SECONDARY WATER**
 SW/8 - 8" PVC C-900 SECONDARY WATER LINE

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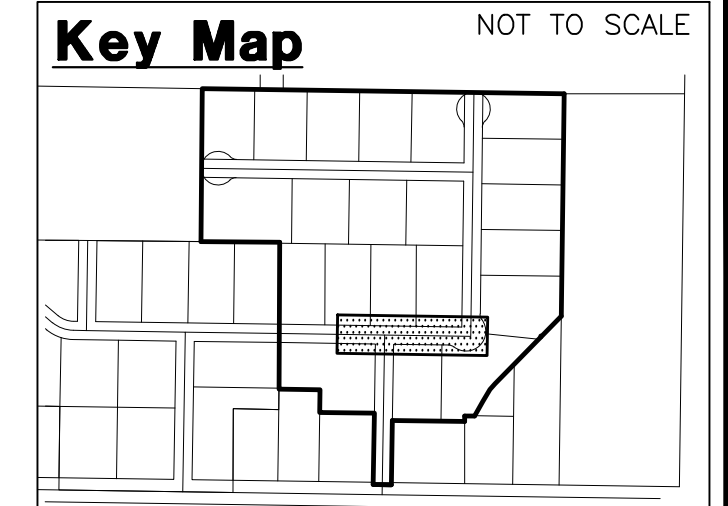
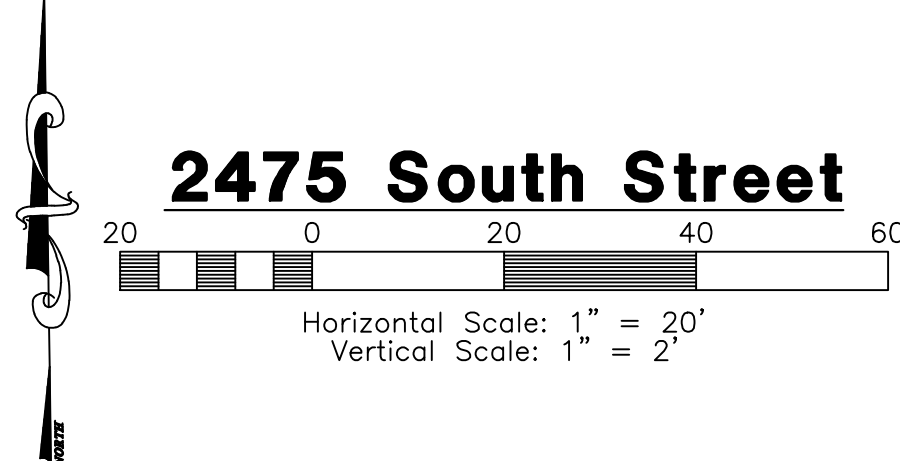
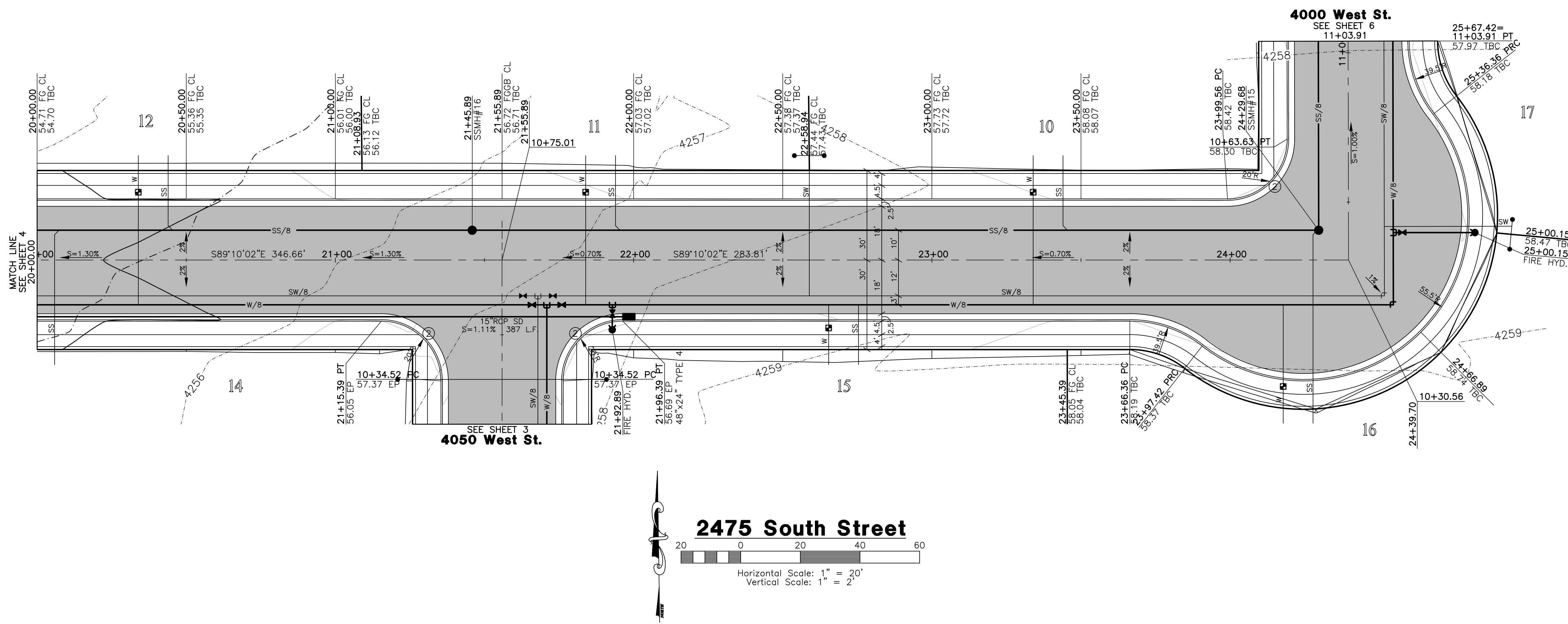
Mallard Springs Subdivision
 WEBER COUNTY, UTAH

2475 South Street
16+00.00 - 20+00.00

Revised: 3-10-14

Project Info.
 Engineer: J. NATE REEVE, P.E.
 Drafter: R. HANSEN
 Begin Date: NOVEMBER 4, 2013
 Name: MALLARD SPRINGS SUBDIVISION
 Number: 3442-A30

Sheet **17**
 4 Sheets



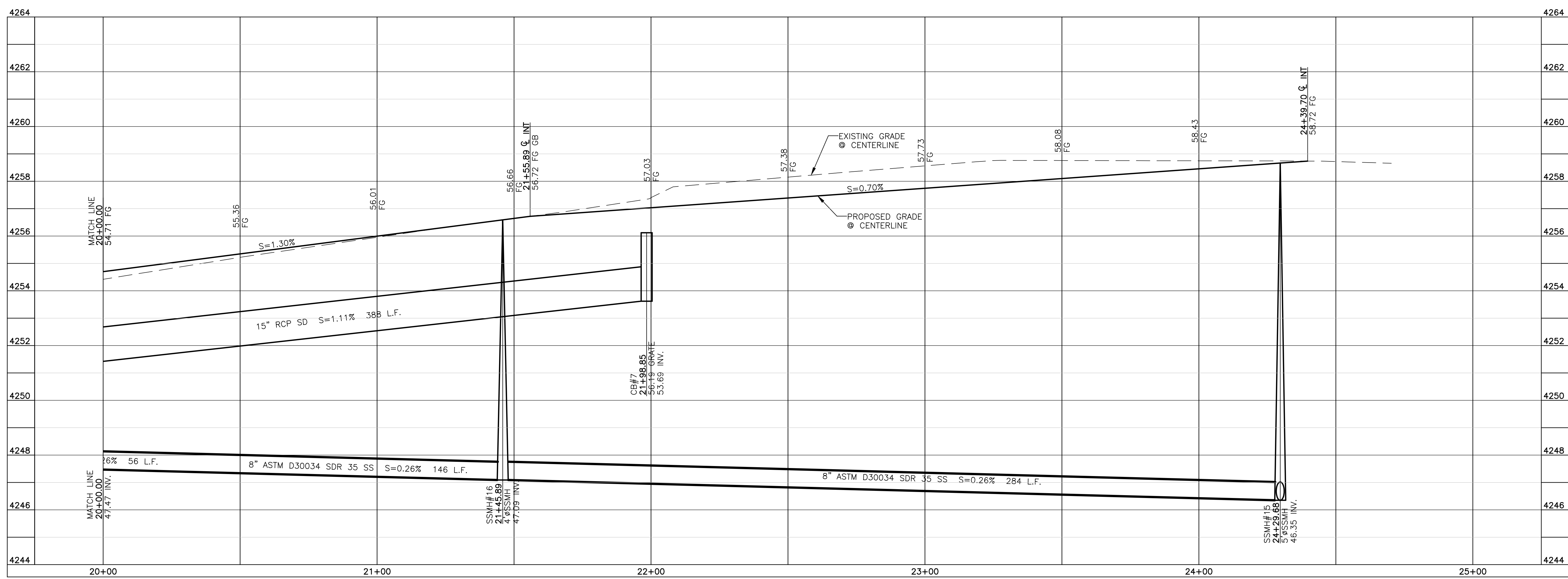
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REVISIONS	DESCRIPTION

Mallard Springs Subdivision
WEBER COUNTY, UTAH

2475 South Street
20+00.00 - 25+00.00

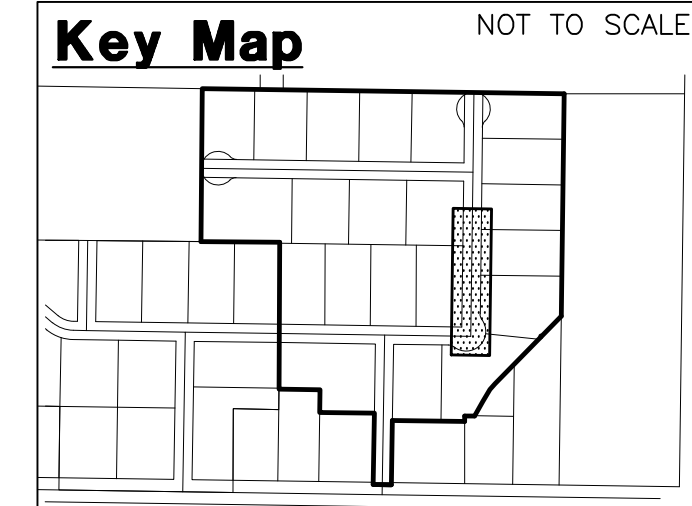
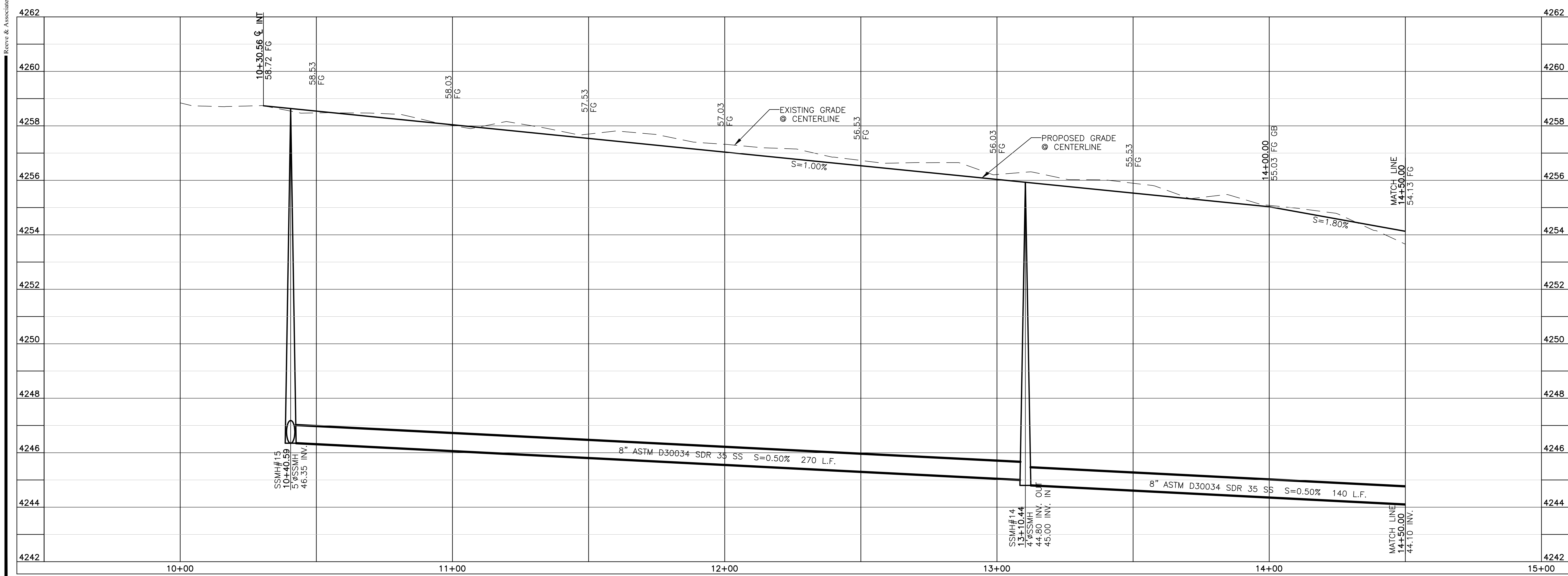
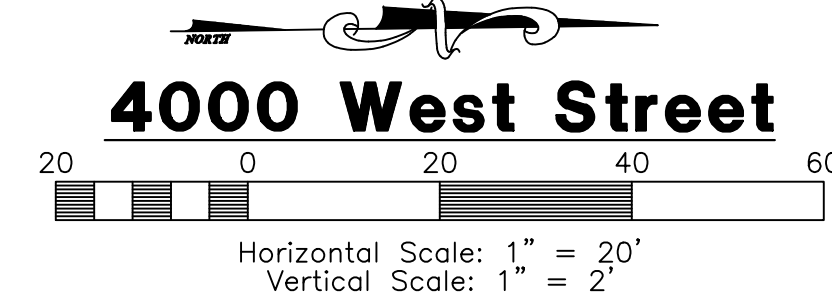
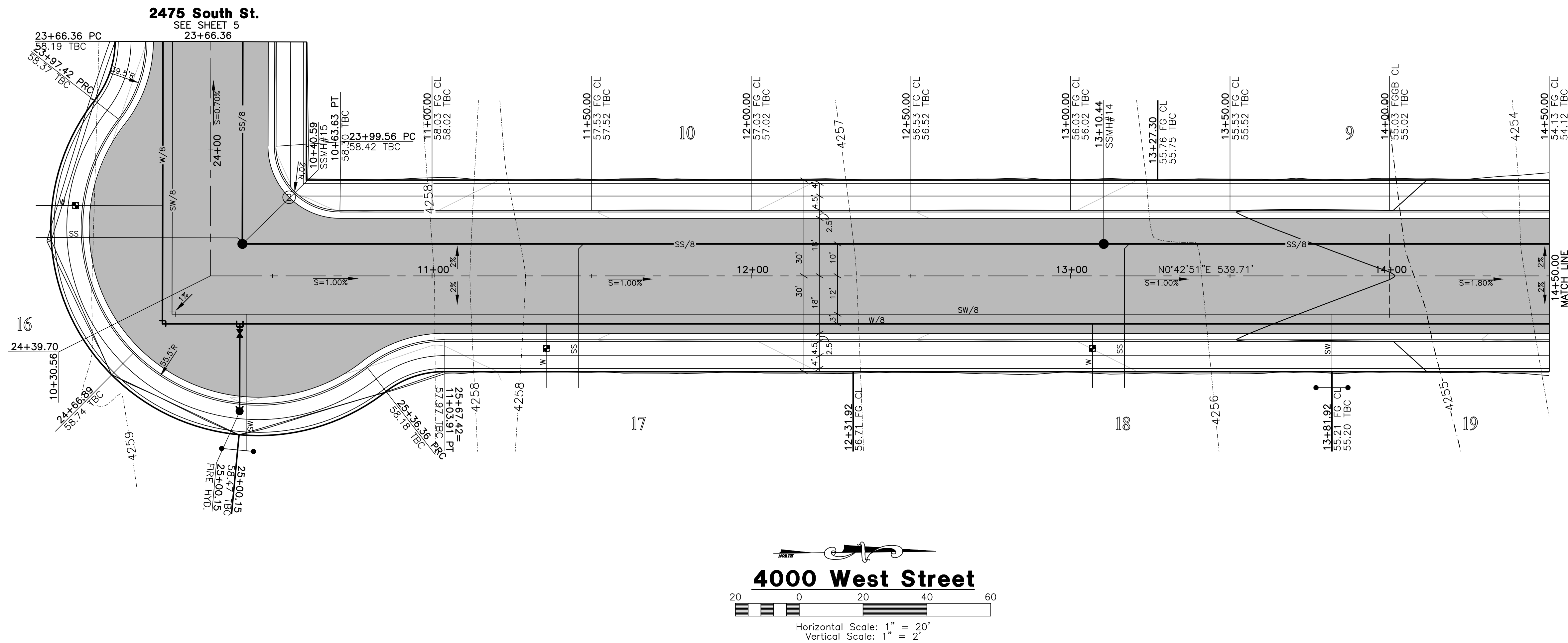


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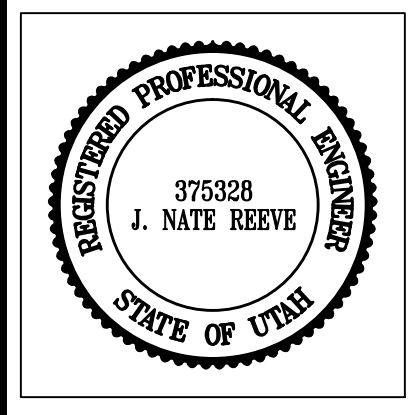


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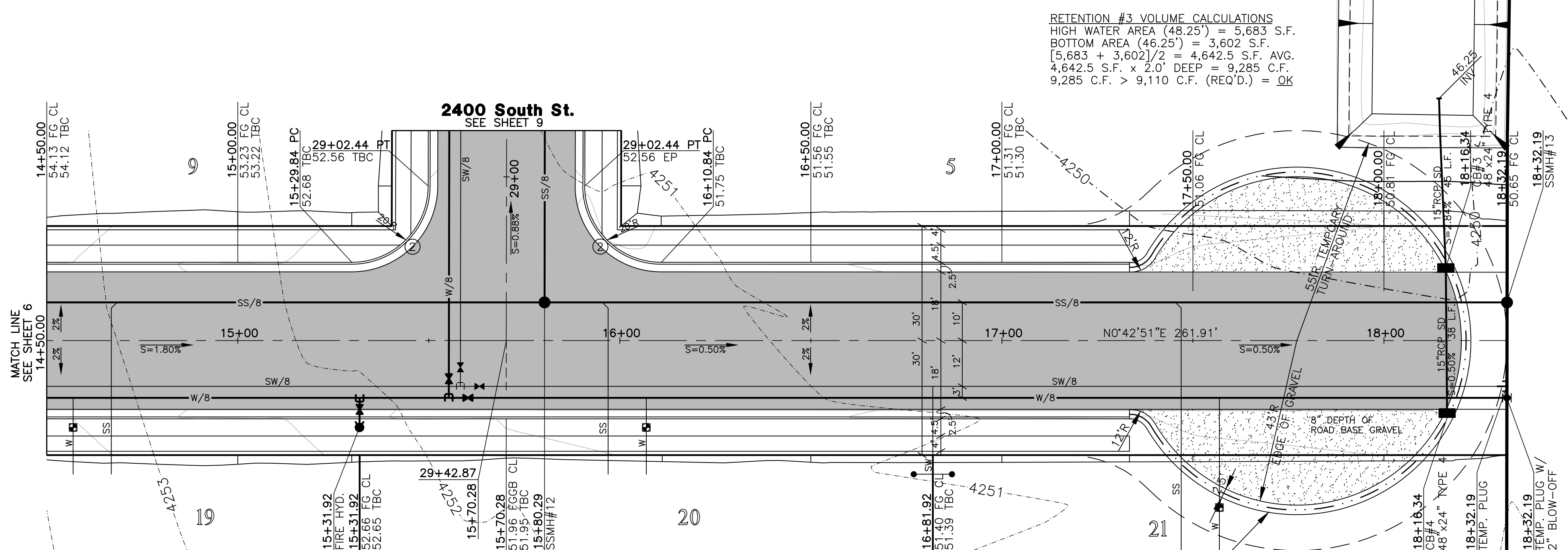
Mallard Springs Subdivision
WEBER COUNTY, UTAH

4000 West Street
10+00.00 - 14+50.00

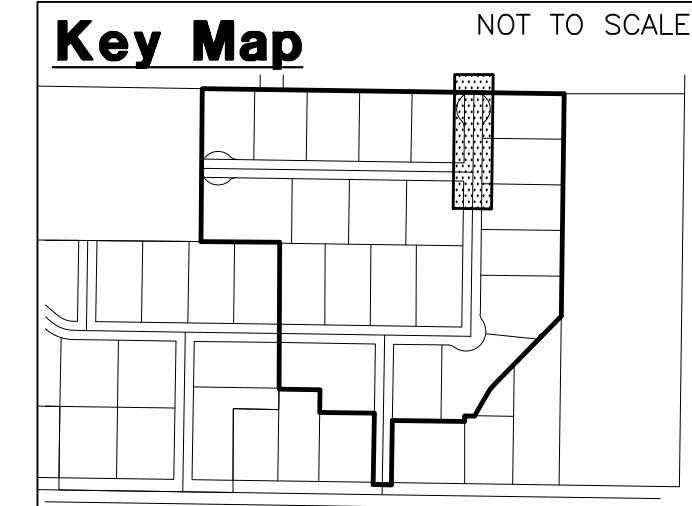
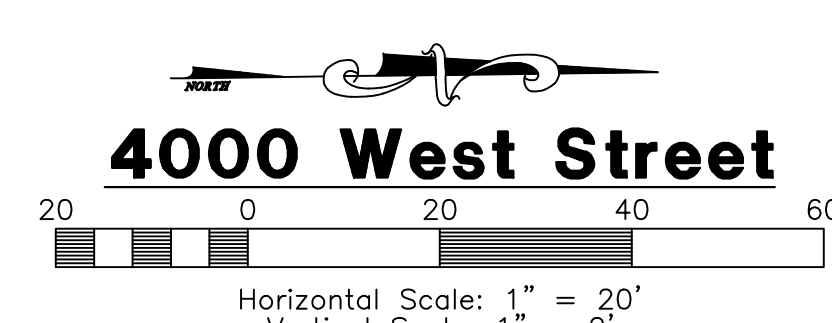


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Engineer: J. NATE REEVE, P.E.
Drafted: R. HANSEN
Begin Date: NOVEMBER 4, 2013
Name: MALLARD SPRINGS SUBDIVISION
Number: 3442-A30

Sheet **17**
6 Sheets



RETENTION #3 VOLUME CALCULATIONS
 HIGH WATER AREA (48.25') = 5,683 S.F.
 BOTTOM AREA (46.25') = 3,602 S.F.
 $[5,683 + 3,602] / 2 = 4,642.5$ S.F. AVG.
 $4,642.5$ S.F. x $2.0'$ DEEP = $9,285$ C.F.
 $9,285$ C.F. > $9,110$ C.F. (REQ'D.) = OK



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Storm Runoff Calculations
 Mallard Springs Subdivision-Basin 3
 1/14/2014 SKT

The following runoff calculations are based on the Rainfall - Intensity - Duration Frequency Curve for the West Haven, UT area taken from data compiled by NOAA Atlas 14, using a 100 year storm.

Runoff storm water has been calculated for two different sets of conditions, one being the existing undeveloped land and the other with land fully improved. The difference between the two quantities will be retained in a holding pond

The calculations are as follows:

- Runoff from the undeveloped existing land.

Runoff Quantity	Q =	0 cfs
Acreage	A =	6.69 ACRES
Perc Rate		25.00 mpi
Q(out) =		0.00 CFS
- Runoff from developed land

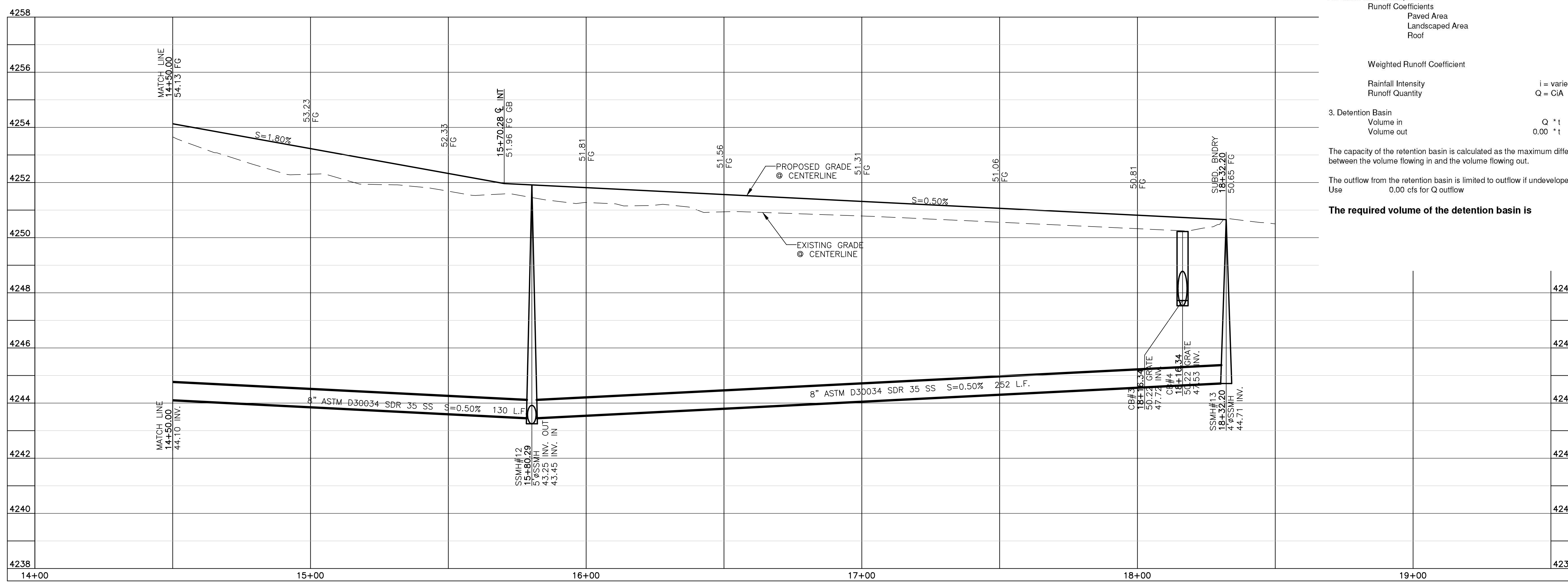
Runoff Coefficients		
Paved Area	31,812	C = 0.9
Landsaped Area	232,806	C = 0.2
Roof	27,142	C = 0.8
Weighted Runoff Coefficient		C = 0.33
Rainfall Intensity	i =	varies with time
Runoff Quantity	Q =	CIA
- Detention Basin

Volume in	Q * t
Volume out	0.00 * t

The capacity of the retention basin is calculated as the maximum difference between the volume flowing in and the volume flowing out.

The outflow from the retention basin is limited to outflow if undeveloped. Use 0.00 cfs for Q outflow

The required volume of the detention basin is 24,016 cubic feet

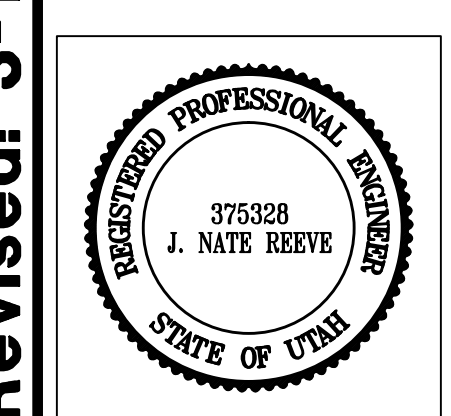


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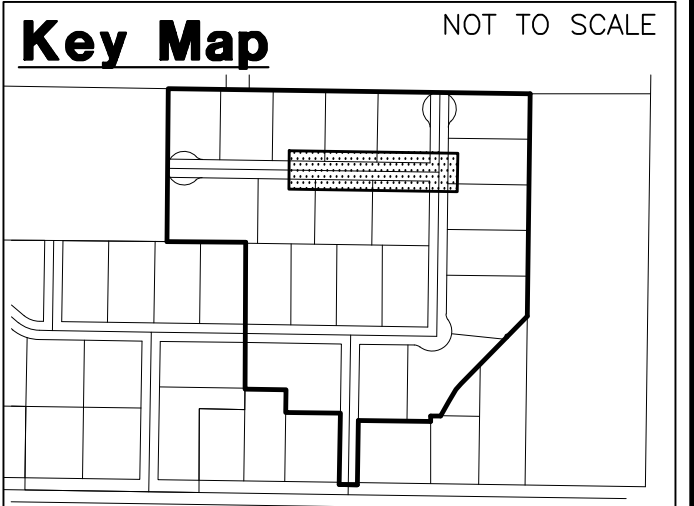
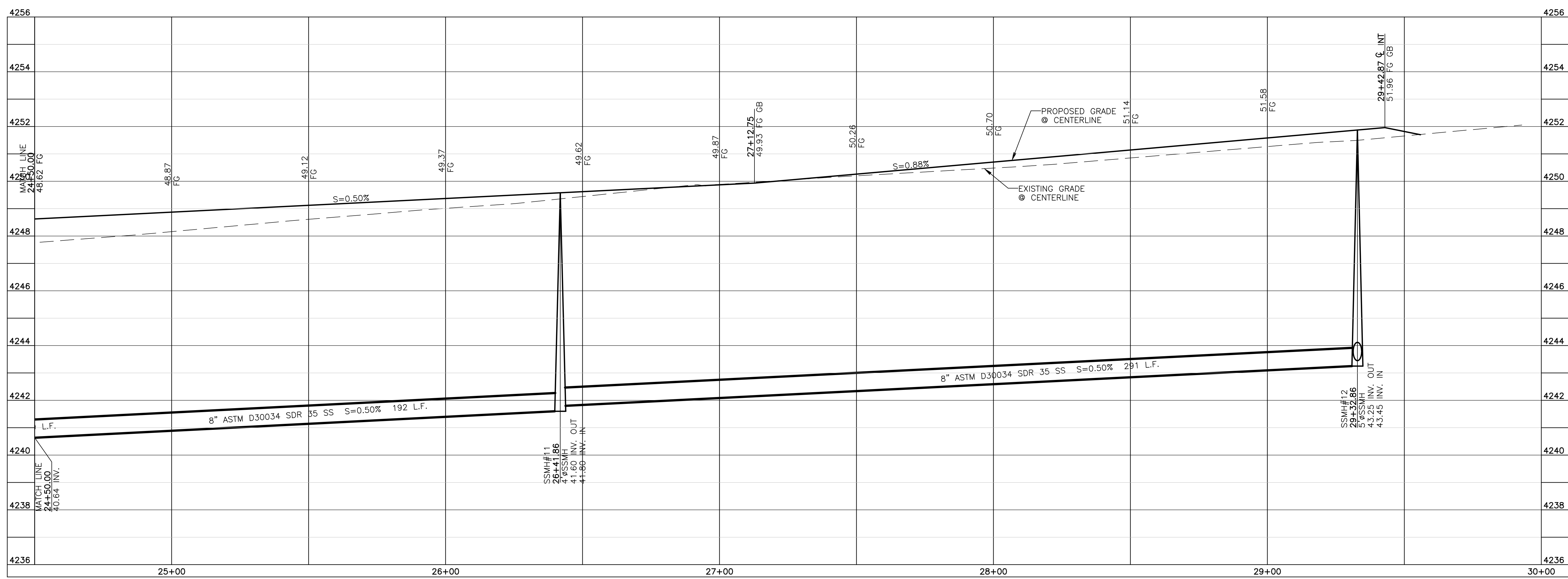
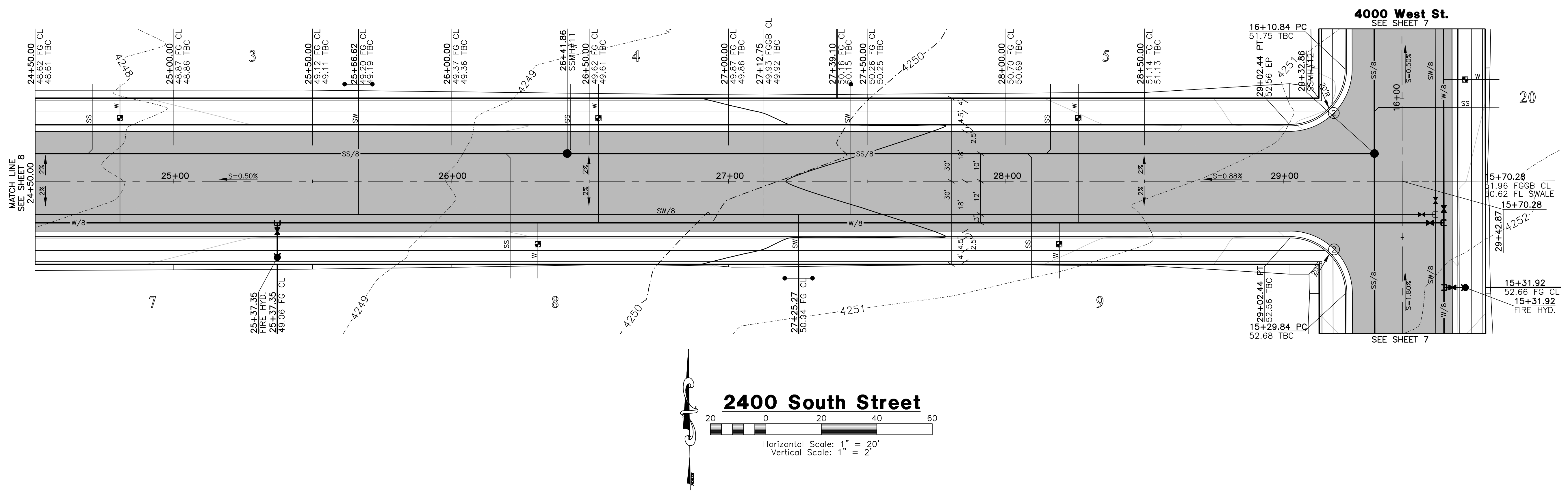
REVISIONS	DESCRIPTION
DATE	

Mallard Springs Subdivision
 WEBER COUNTY, UTAH

4000 West Street
14+50.00 - 18+50.00



Project Info.
 Engineer: J. NATE REEVE, P.E.
 Drafter: R. HANSEN
 Begin Date: NOVEMBER 4, 2013
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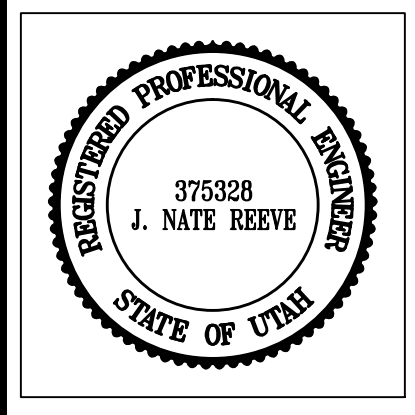
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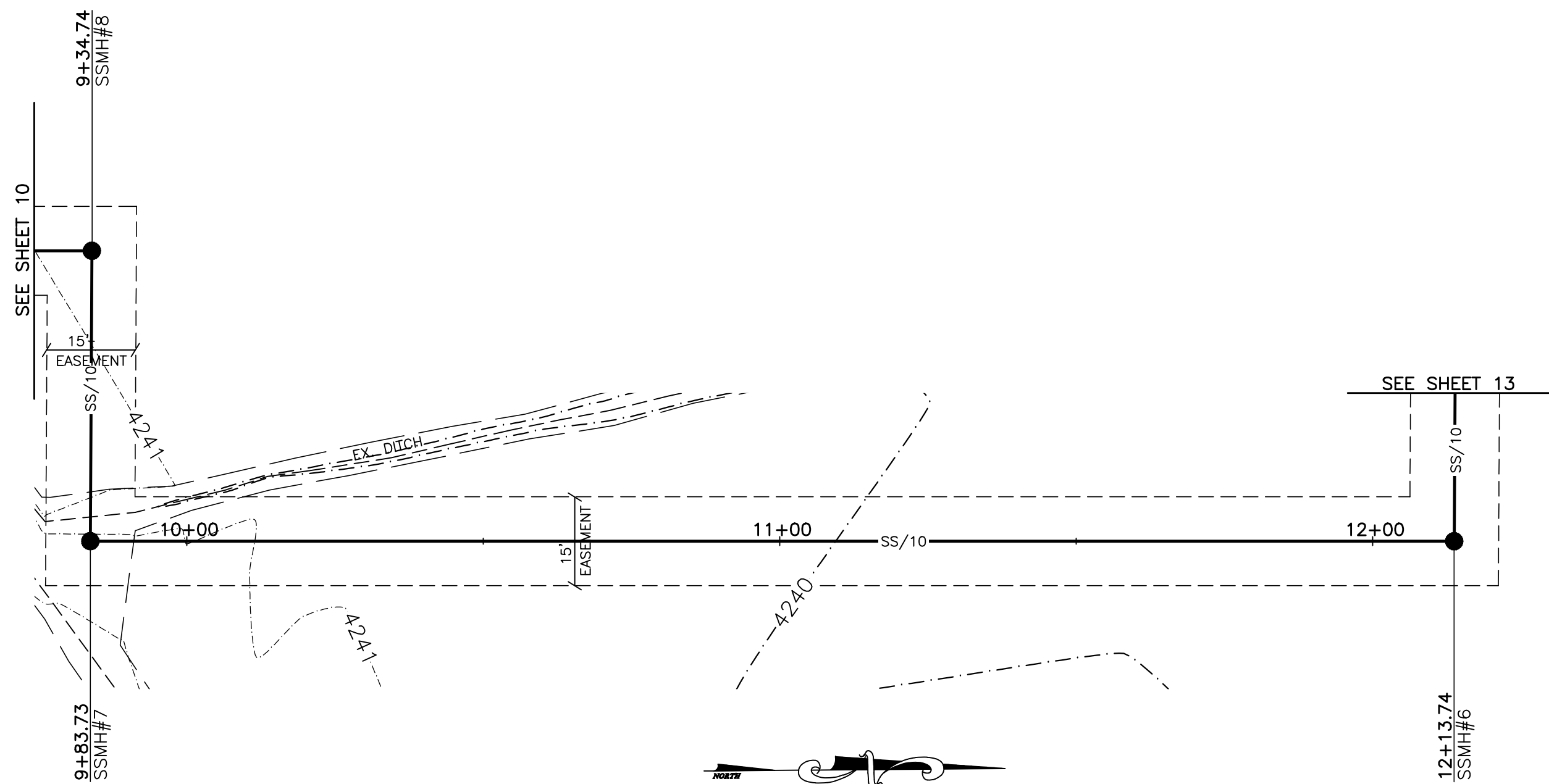
REVISIONS	DESCRIPTION

Mallard Springs Subdivision
 WEBER COUNTY, UTAH

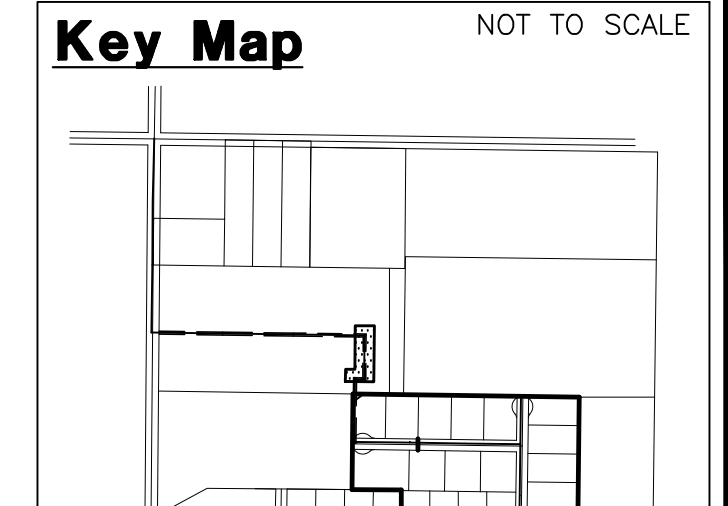
2400 South Street
24+50.00 - 30+00.00



Project Info.
 Engineer: J. NATE REEVE, P.E.
 Drafter: R. HANSEN
 Begin Date: NOVEMBER 4, 2013
 Name: MALLARD SPRINGS SUBDIVISION
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Sanitary Sewer Outfall
 Horizontal Scale: 1" = 20'
 Vertical Scale: 1" = 2'



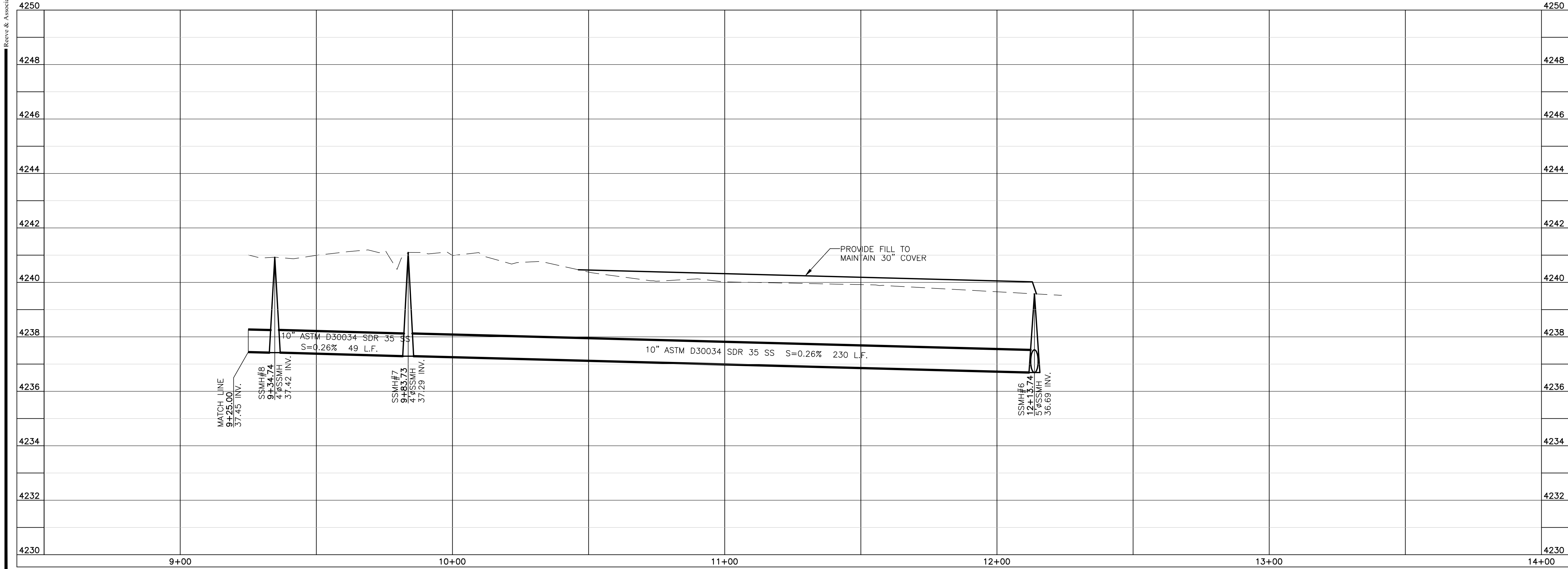
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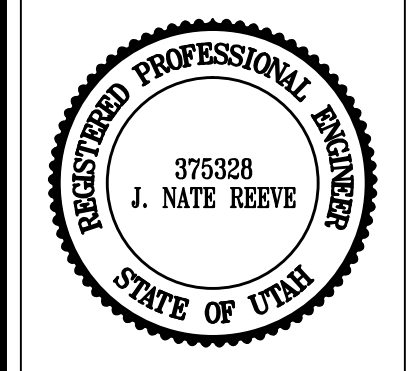
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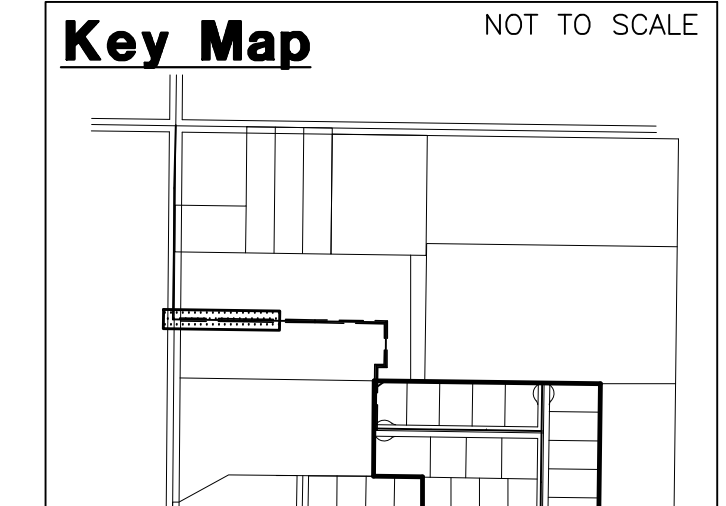
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Mallard Springs Subdivision
 WEBER COUNTY, UTAH
Sanitary Sewer Outfall
9+25.00 - 12+50.00



Project Info.
 Engineer: J. NATE REEVE, P.E.
 Drafter: R. HANSEN
 Begin Date: NOVEMBER 4, 2013
 Name: MALLARD SPRINGS SUBDIVISION
 Number: 3442-A30

Sheet **11** of **17** Sheets

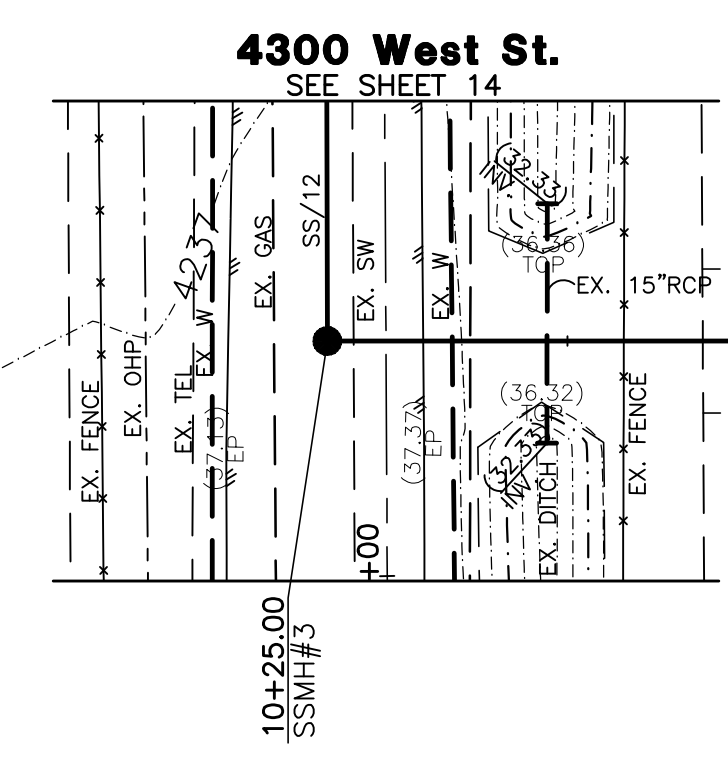


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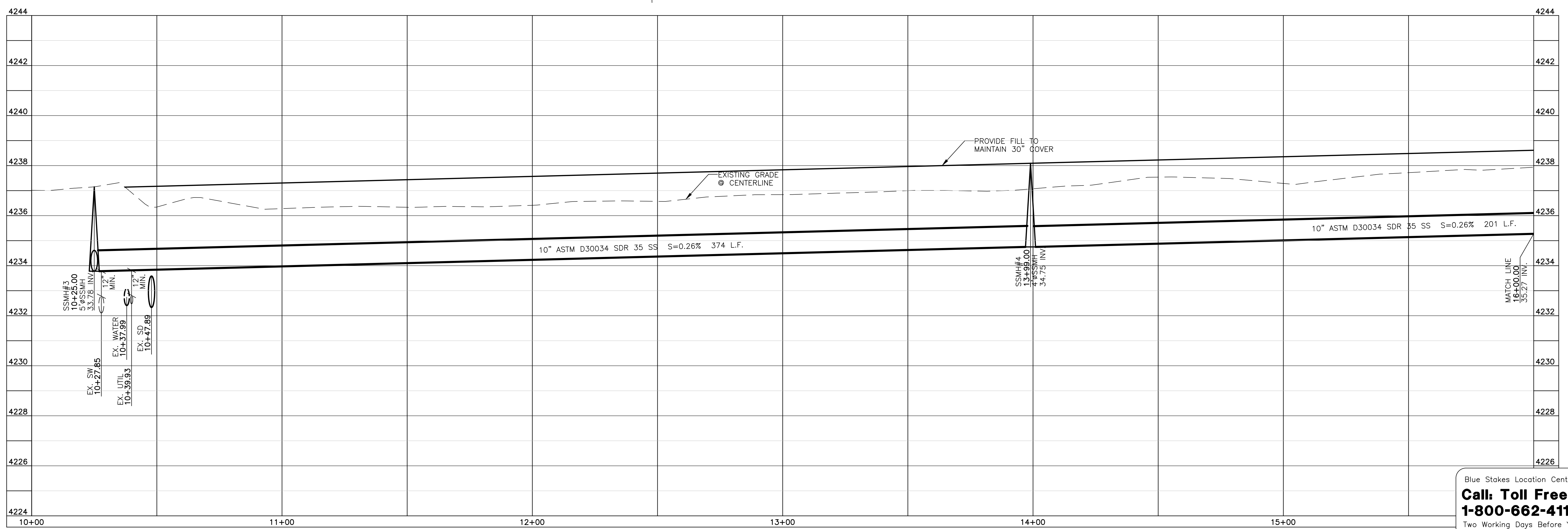
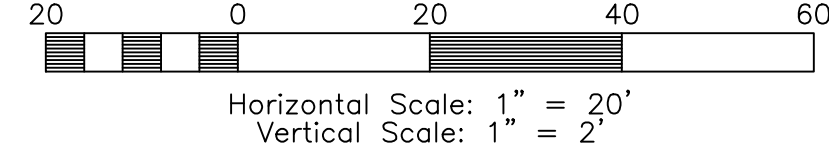
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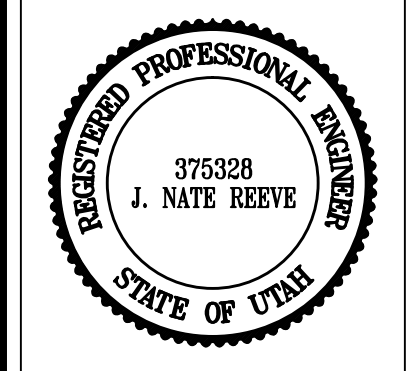


Sanitary Sewer Outfall



Revised: 3-10-14

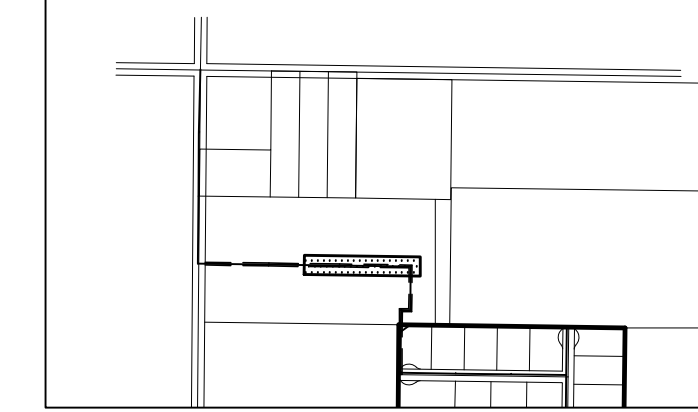
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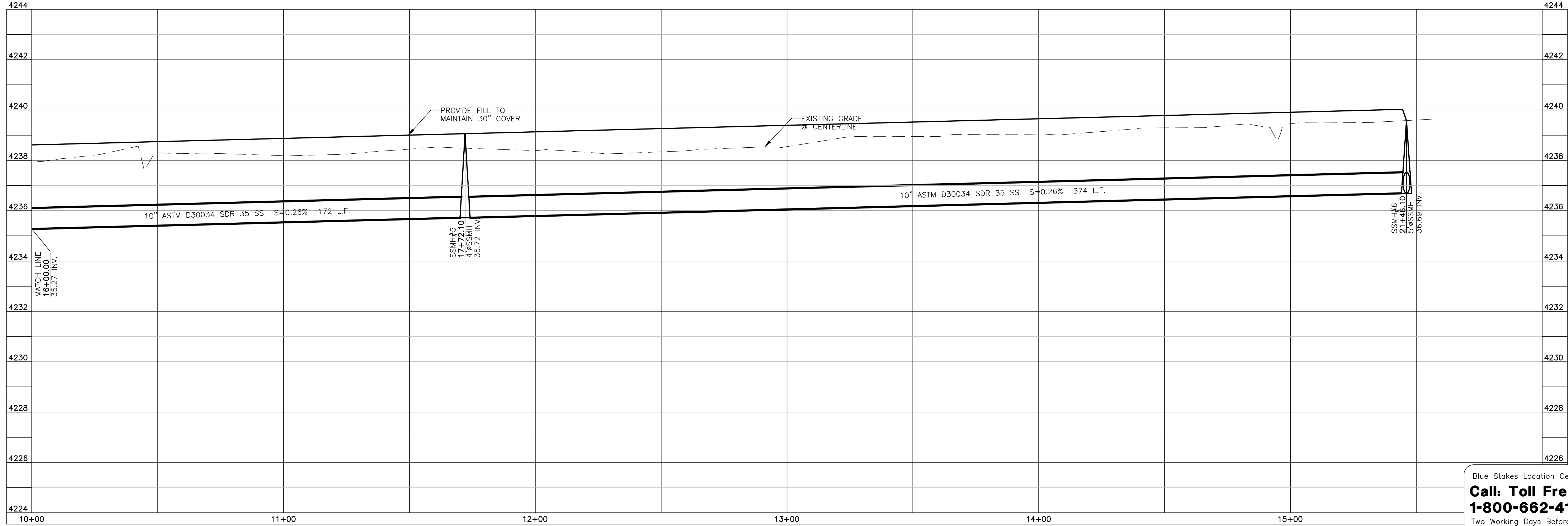
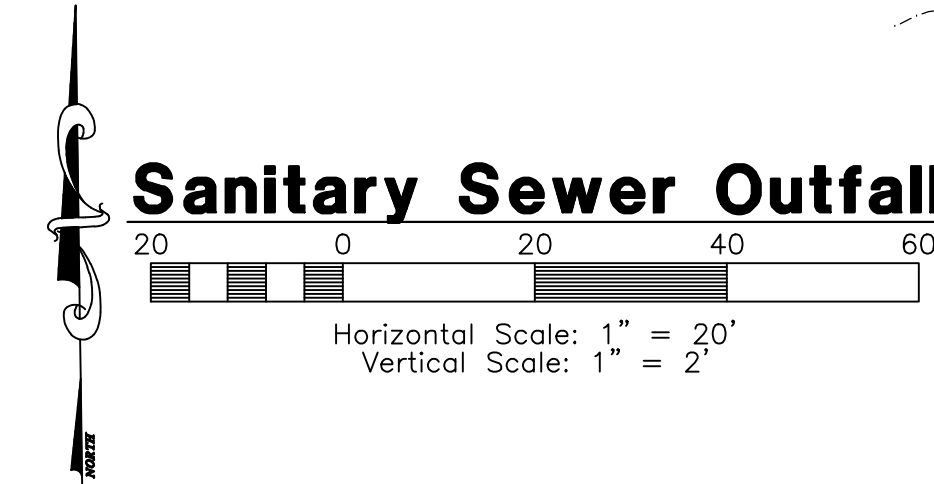
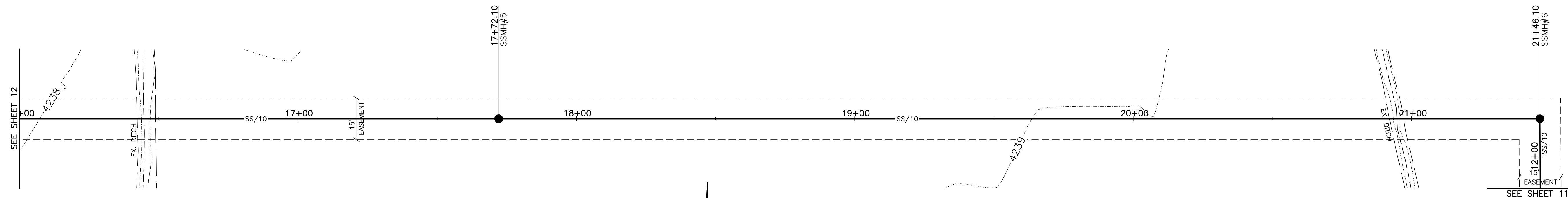
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Key Map NOT TO SCALE



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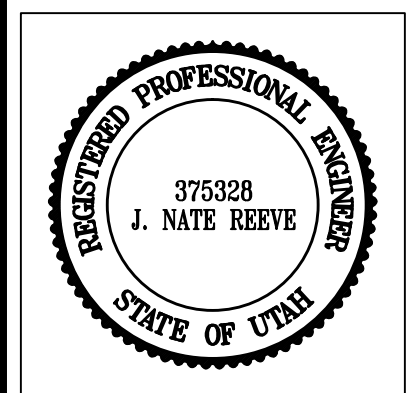


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REVISIONS	DESCRIPTION

Mallard Springs Subdivision
WEBER COUNTY, UTAH

Sanitary Sewer Outfall
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Project Info.

Engineer: J. NATE REEVE, P.E.
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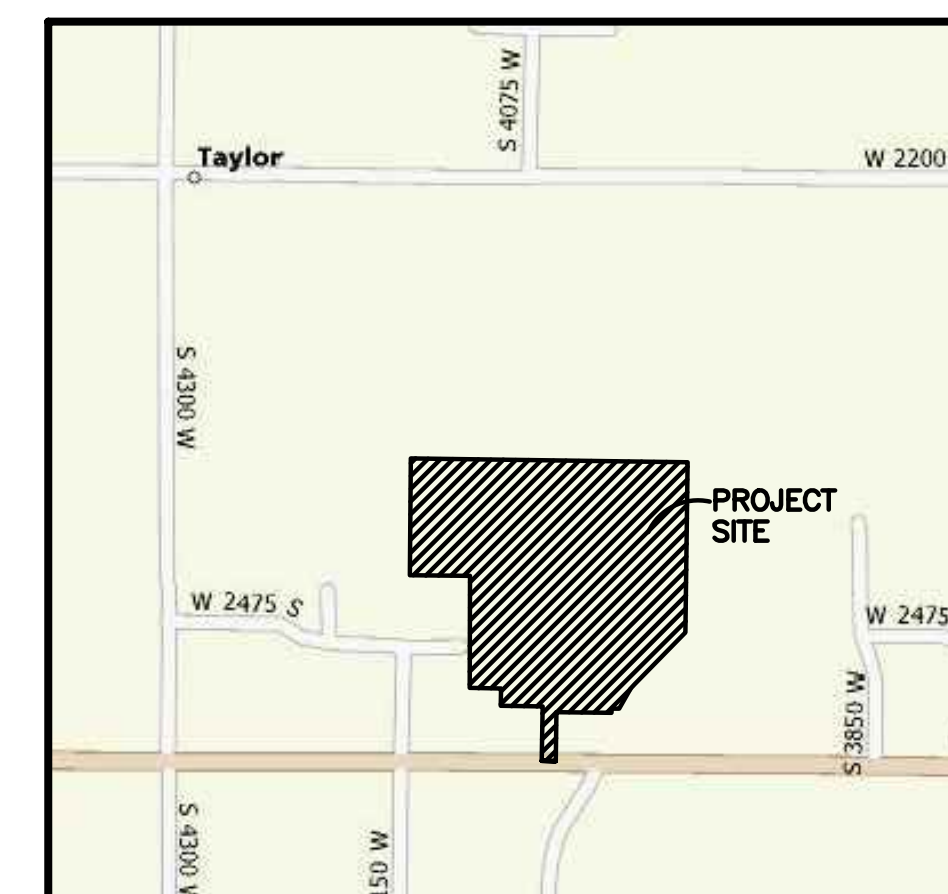
Reeve & Associates, Inc. - Solutions You Can Build On

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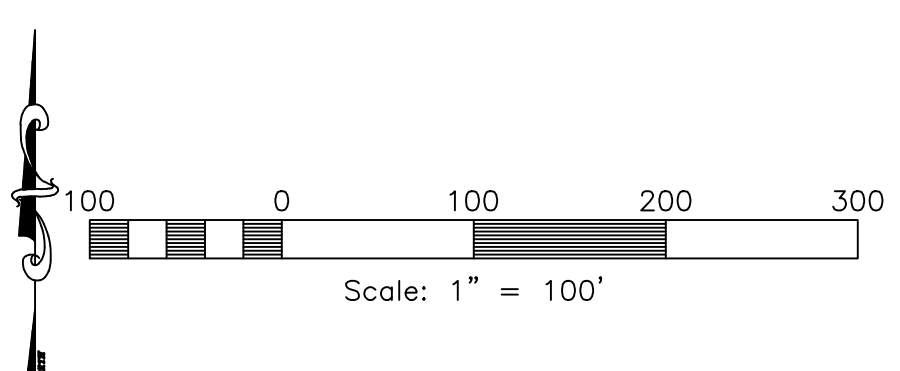
MALLARD SPRINGS SUBDIVISION

Storm Water Pollution Prevention Plan Exhibit

WEBER COUNTY, UTAH
NOVEMBER 2013



Vicinity Map
NOT TO SCALE

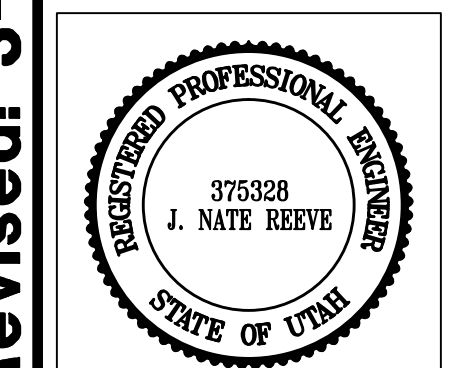


Construction Activity Schedule	
- PROJECT LOCATION.....	WEBER COUNTY, UTAH
- PROJECT BEGINNING DATE.....	NOVEMBER 2013
- BMP'S DEPLOYMENT DATE.....	NOVEMBER 2013
- STORM WATER MANAGEMENT CONTACT / INSPECTOR.....	DOUG HAMBLIN (801) 731-7703
- SPECIFIC CONSTRUCTION SCHEDULE INCLUDING BMP CONSTRUCTION SCHEDULE TO BE INCLUDED WITH SWPPP BY OWNER/DEVELOPER	

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DATE	

Mallard Springs Subdivision
 WEBER COUNTY, UTAH
Storm Water Pollution Prevention Plan Exhibit



Project Info.

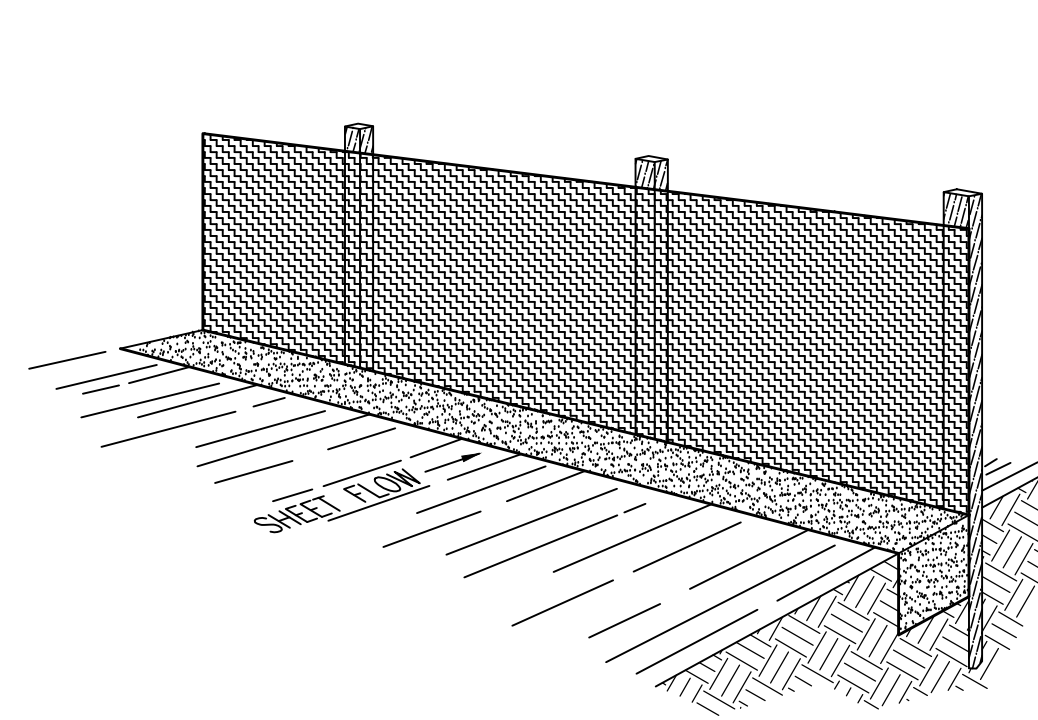
Engineer: J. NATE REEVE, P.E.
 Drafter: R. HANSEN
 Begin Date: NOVEMBER 4, 2013
 Name: MALLARD SPRINGS SUBDIVISION
 Number: 3442-A30

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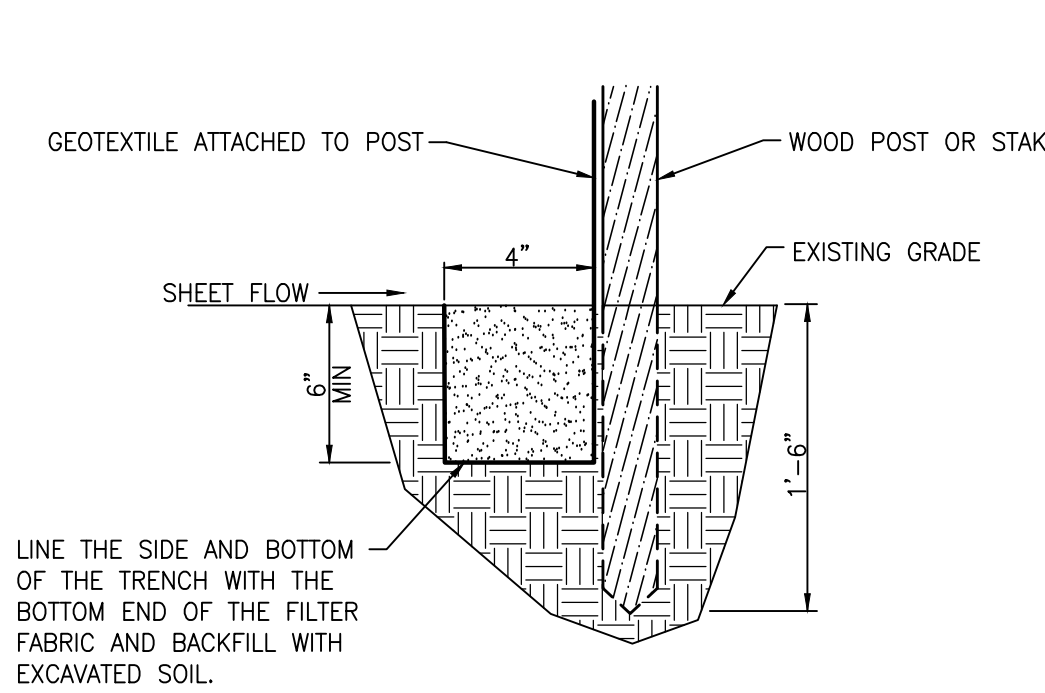
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Notes:

- 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 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 UTR300000 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



Section

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.

TABLE 1: Recommended Maximum Slope Lengths for Silt Fence (Richardson & Middlebrooks, 1991)	
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.

should generally be less than three (3) times the height of the fence.

- If a steel or plastic mesh is required to reinforce the geotextile, it shall have a minimum mesh opening of 15.2cm (6").
- Fasten the mesh to the upslope side of the posts using heavy duty wire staples, tie wires or hog strings. Extend the mesh into the bottom of the trench.
- The geotextile shall then be stapled or wired to the posts. An extra 20-50cm (8-20") of geotextile shall extend into the trench.

INSPECTION

- Inspect the silt fence daily during periods of rainfall, immediately after significant rainfall event and weekly during periods of no rainfall. Make any repairs immediately.
- When sediment deposits behind the silt fence are one-third of the fence height, remove and properly dispose of the silt accumulations. Avoid damage to the fabric during cleanout.

REMOVAL

- Silt fence should not be removed until construction ceases and the upslope area has been properly stabilized and/or revegetated.

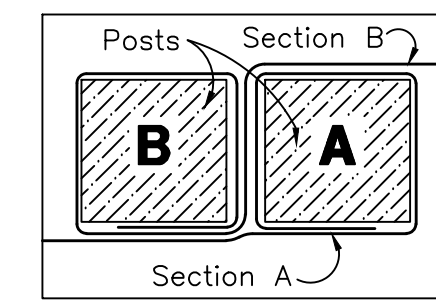
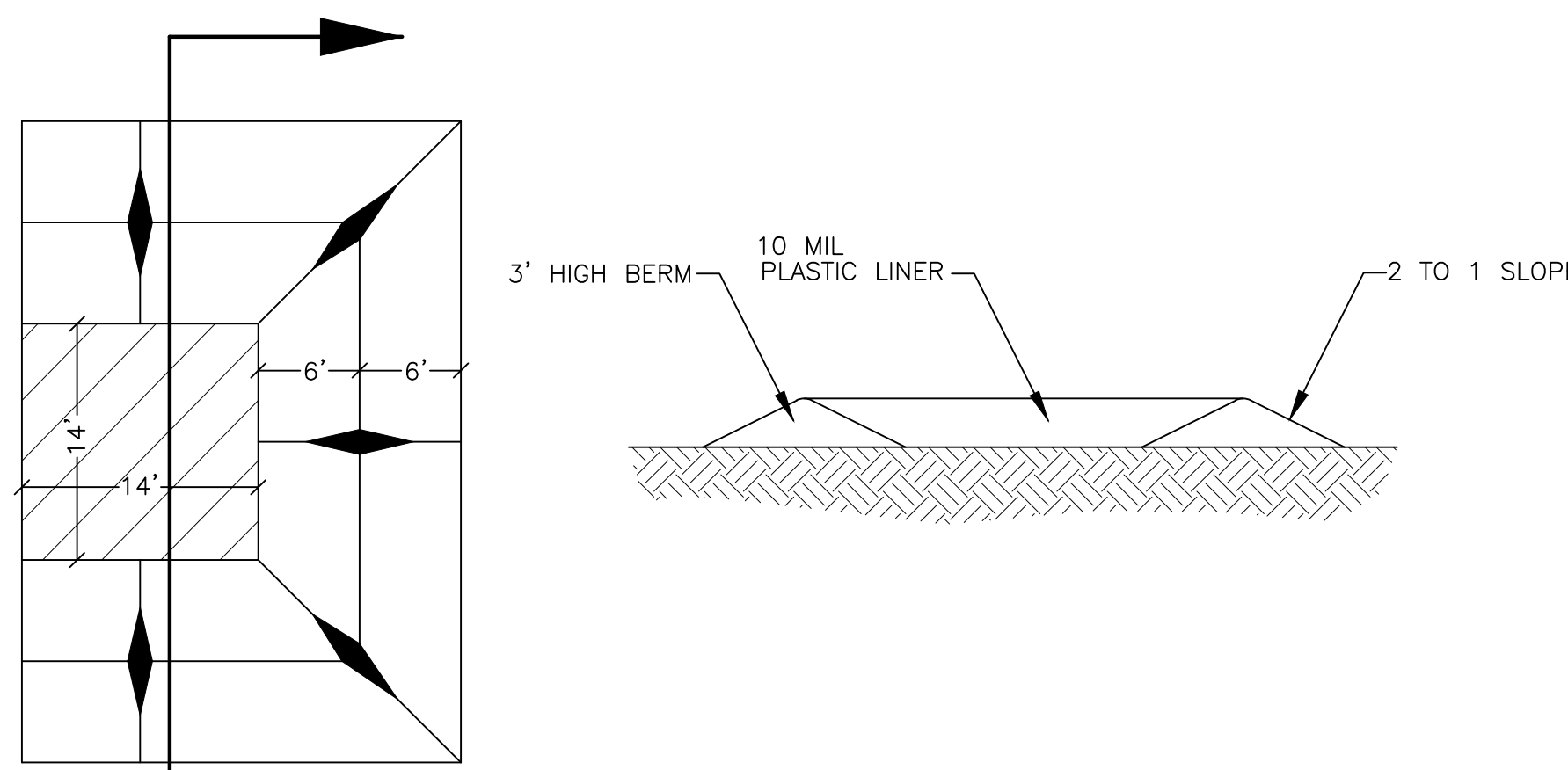


Figure 1:
Top View of
Roll-to-Roll Connection

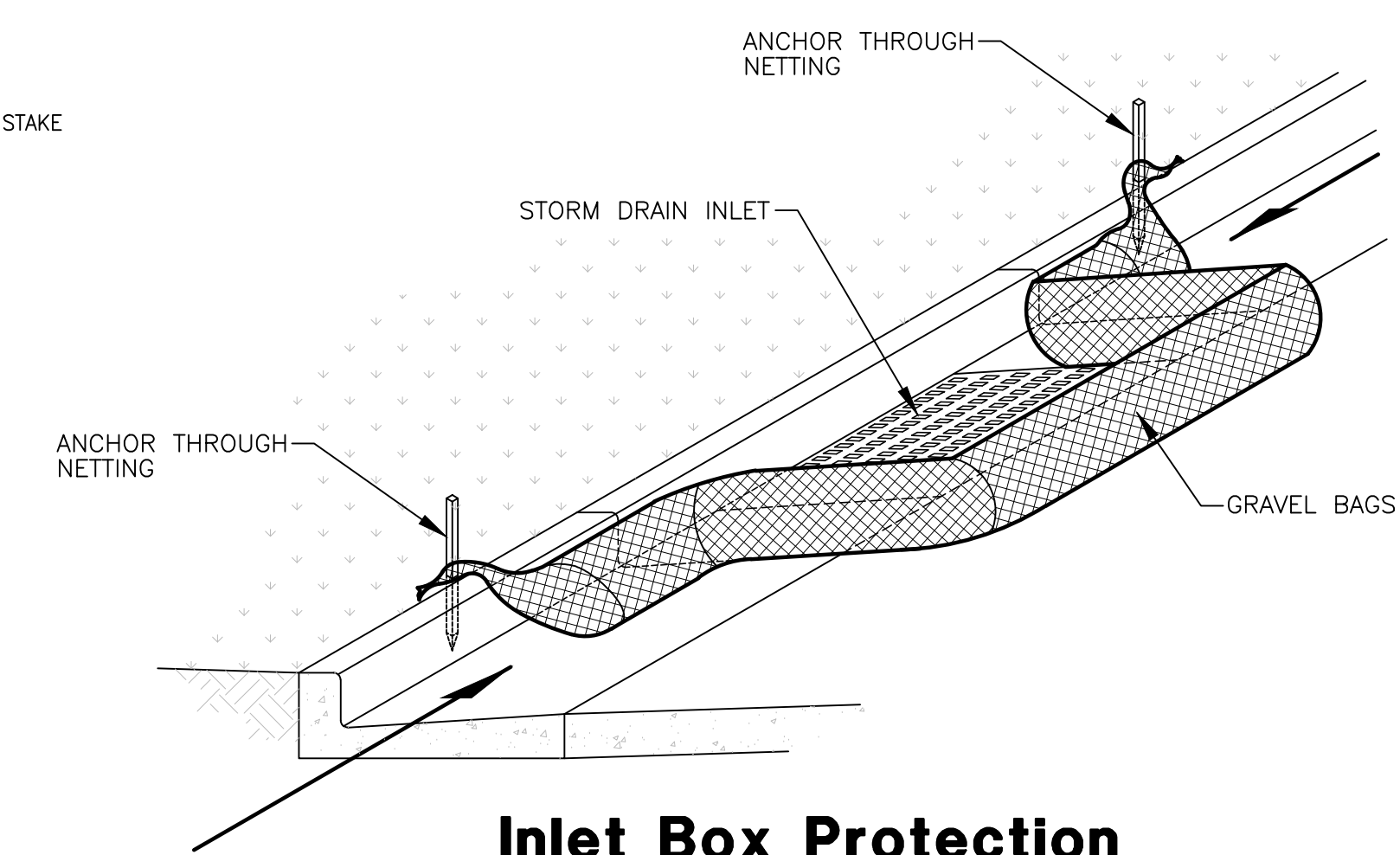
Silt Fence Detail

SCALE: NONE

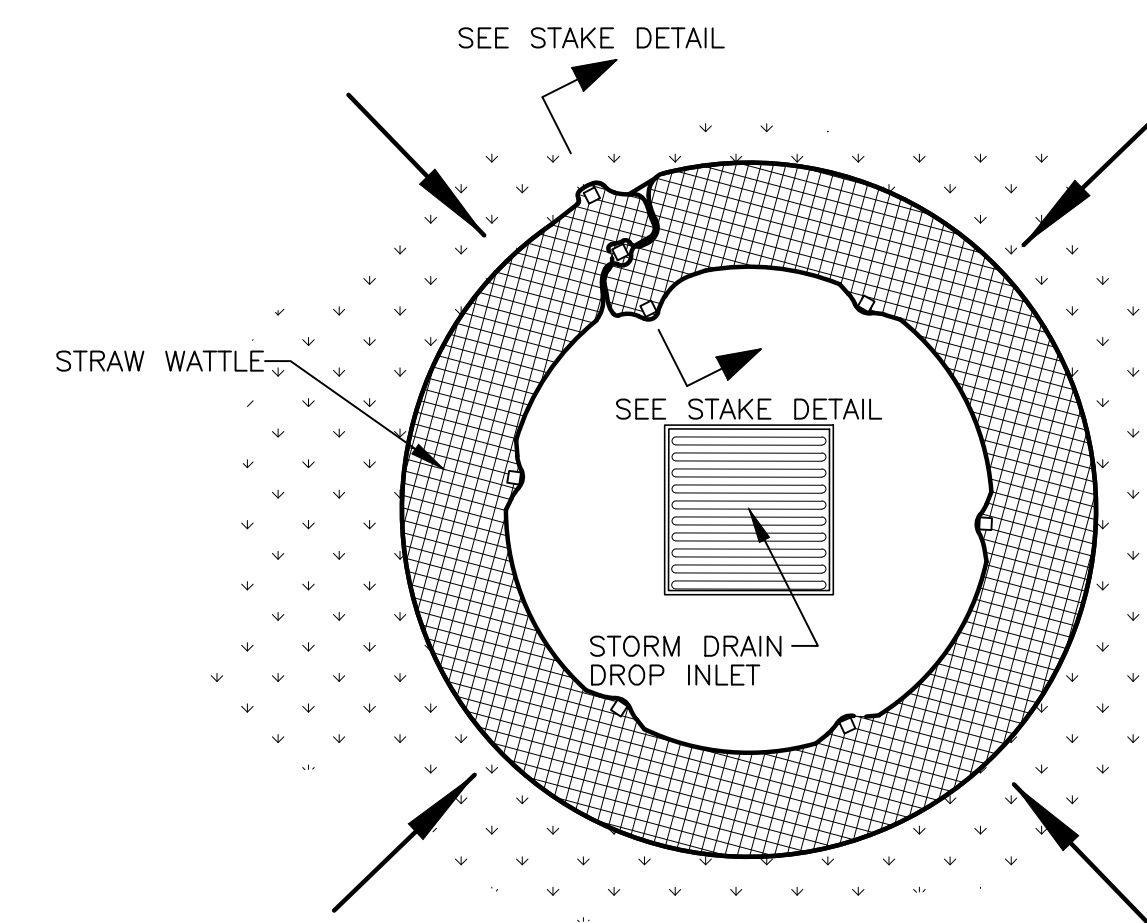


**Concrete Washout Area
w/ 10 mil Plastic Liner**

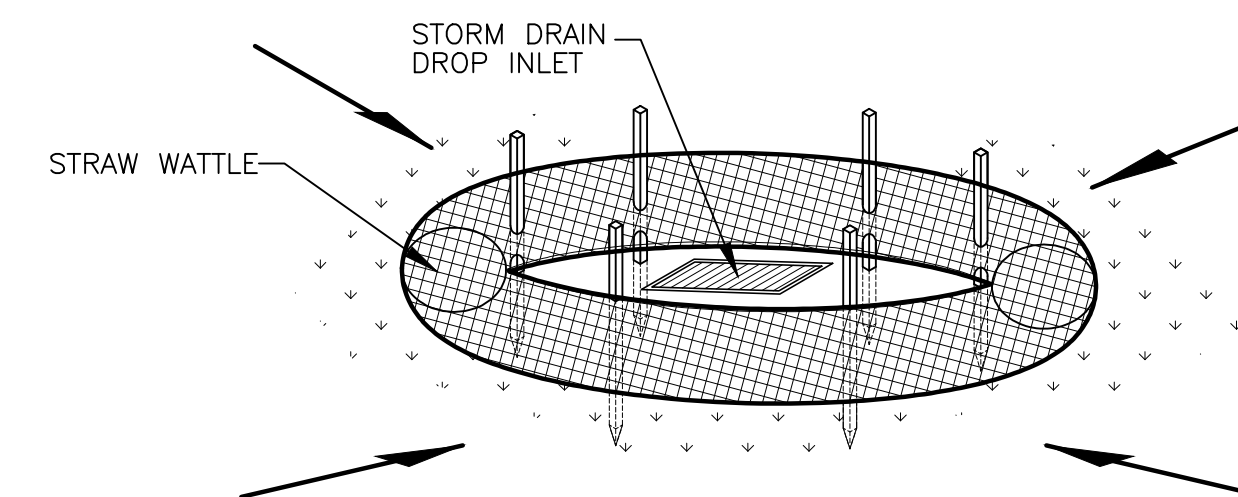
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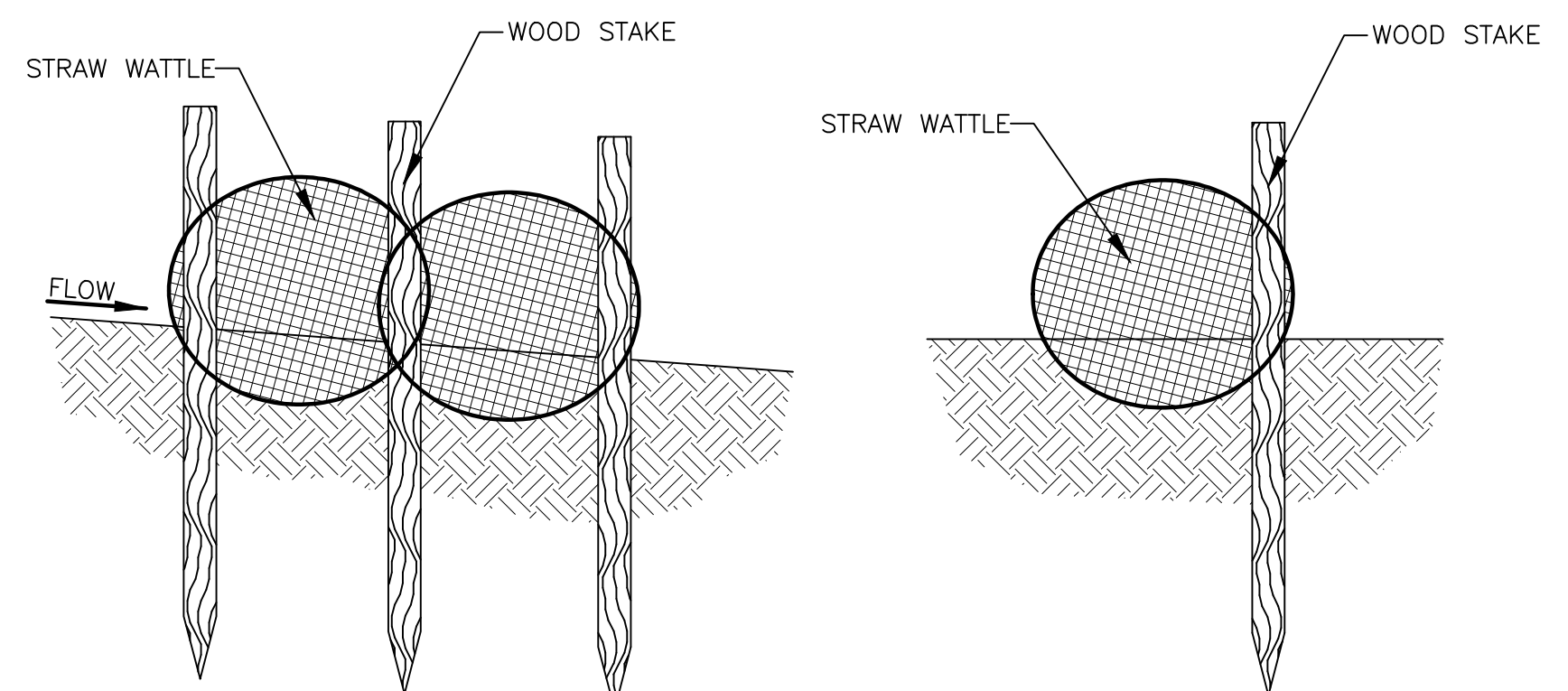
Inlet Box Protection



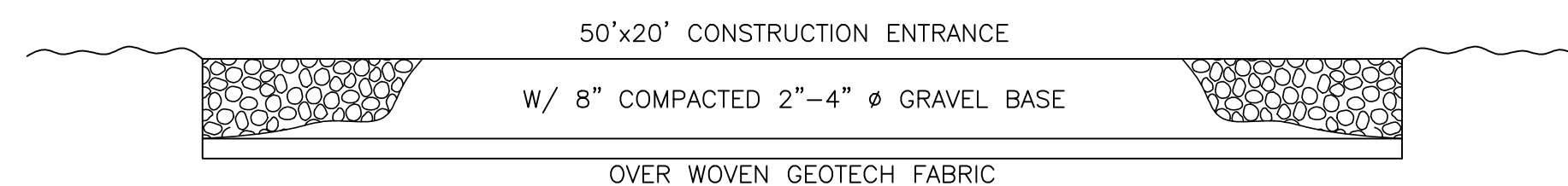
Plan View



Drop Inlet Protection



Stake Detail



Cross Section 50' x 20' Construction Entrance

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TRAFFIC ENGINEERS • STRUCTURAL ENGINEERS • LANDSCAPE ARCHITECTS

REVISIONS	DESCRIPTION
DATE	

Mallard Springs Subdivision
WEBER COUNTY, UTAH
Storm Water Pollution Prevention Plan Details

REGISTERED PROFESSIONAL ENGINEER
375328
J. NATE REEVE
STATE OF UTAH

Project Info.
Engineer: J. NATE REEVE, P.E.
Drafted: R. HANSEN
Begin Date: NOVEMBER 4, 2013
Name: MALLARD SPRINGS SUBDIVISION
Number: 3442-A30

Sheet **17**
17 Sheets