

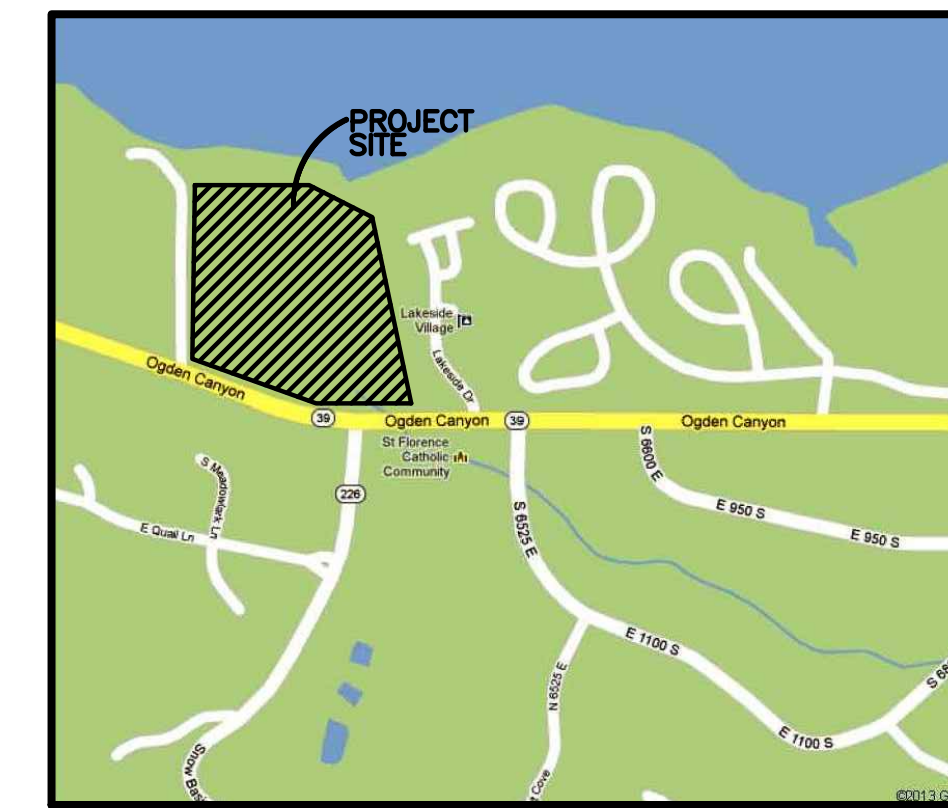
Project Narrative/Notes/Revisions

- 1) 3/3/15 RH - COMPLETED DESIGN FOR CLIENT & COUNTY REVIEW.
- 2) 4/23/15 RH - REVISED PLANS PER COUNTY COMMENTS.
- 3) 5/18/15 RH - REVISED PLANS PER COUNTY COMMENTS.
- 4) 6/08/15 ER - REVISED PLANS PER COUNTY COMMENTS.
- 5) 7/09/15 ER - REVISED PLANS PER COUNTY COMMENTS.
- 6) 7/23/15 ER - REVISED PLANS PER COUNTY COMMENTS.
- 7) 7/29/15 ER - REVISED PLANS PER COUNTY COMMENTS.

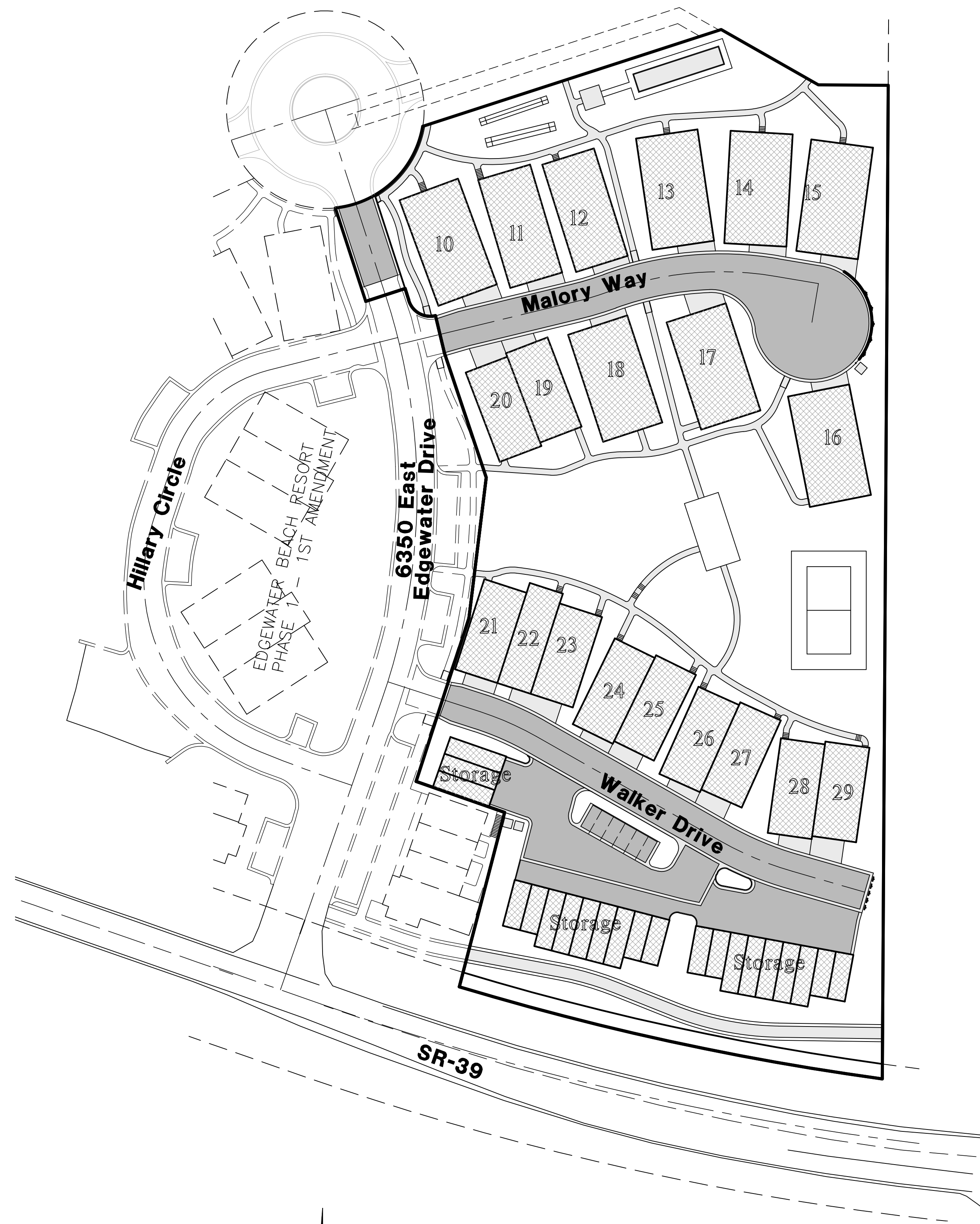
EDGEWATER BEACH RESORT

Phase-2 Improvement Plans

WEBER COUNTY, UTAH
MARCH 2015

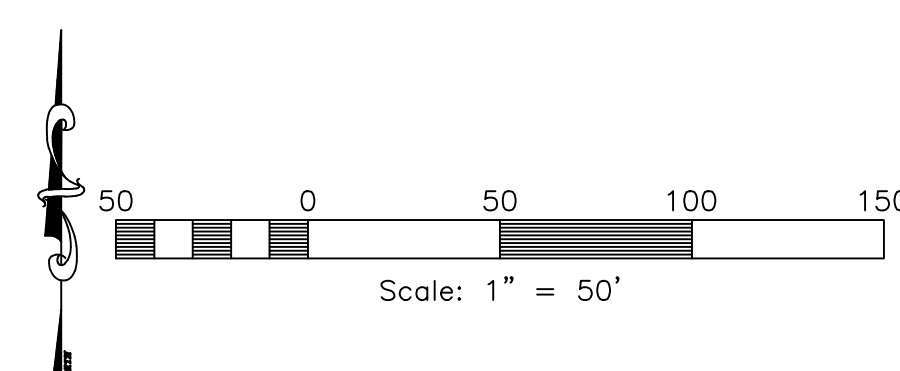


Vicinity Map
NOT TO SCALE



Sheet Index

- Sheet 1 - Cover/Index Sheet
- Sheet 2 - Notes & Legend Sheet
- Sheet 3 - Walker Drive 10+50.00-14+50.00
- Sheet 4 - Malory Way 12+00.00-16+00.00
- Sheet 5 - Edgewater Dr. 22+50.00-25+00.00
- Sheet 6 - Grading Plan
- Sheet 7 - Utility Plan
- Sheet 8 - Utility Plan
- Sheet 9 - Civil Details
- Sheet 10 - Storm Water Pollution Prevention Plan Exhibit
- Sheet 11 - Storm Water Pollution Prevention Plan Details
- Sheet 12 - Landscape Plan
- Sheet 13 - Landscape Details



Elevation Datum

SITE BENCHMARK:
BENCH MARK MONUMENT NO. 3-JRH
ELEVATION 4969.025

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.

Developer Contact:

Don Ross
Jack Fisher Homes
1148 W. Legacy Crossing
Centerville, UT 84014
PH: (801) 335-8500

Blue Stakes Location Center

Call: Toll Free
1-800-662-4111

Two Working Days Before You Dig

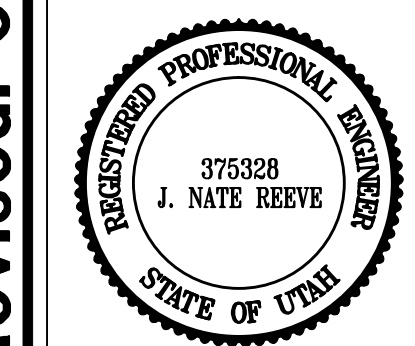
Reeve & Associates, Inc.
920 CHAMBERS STREET, SUITE 14, OGDEN, UTAH 84403
TEL: (801) 621-3100 FAX: (801) 621-2666 www.reeve-assoc.com

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DATE	DESCRIPTION
4-23-15	RH County Comments
5-18-15	RH County Comments
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7-09-15	County Comments
7-23-15	County Comments
7-29-15	County Comments

Edgewater Beach Resort
Phase-2
WEBER COUNTY, UTAH

Cover/Index Sheet

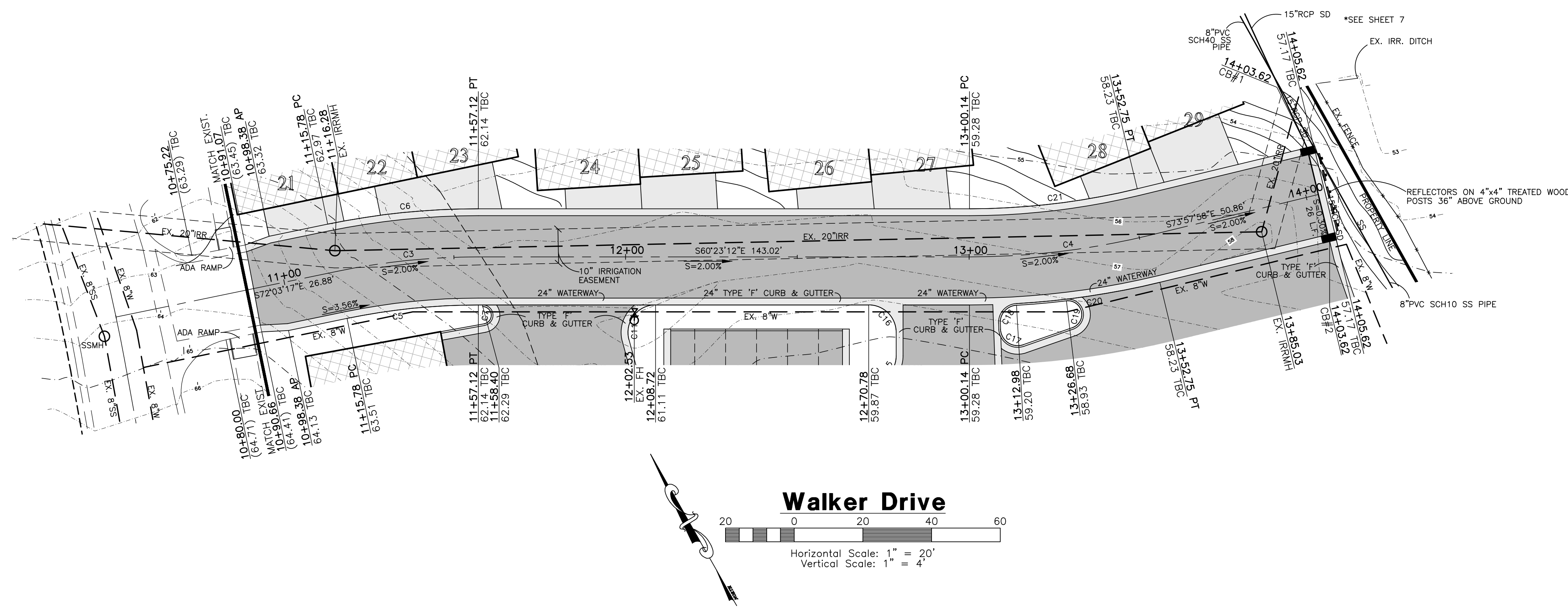


Project Info.

Engineer: J. NATE REEVE, P.E.
 Drafter: R. HANSEN
 Begin Date: MARCH 2, 2015
 Name: EDGEWATER BEACH RESORT
 PHASE-2
 Number: 6240-03

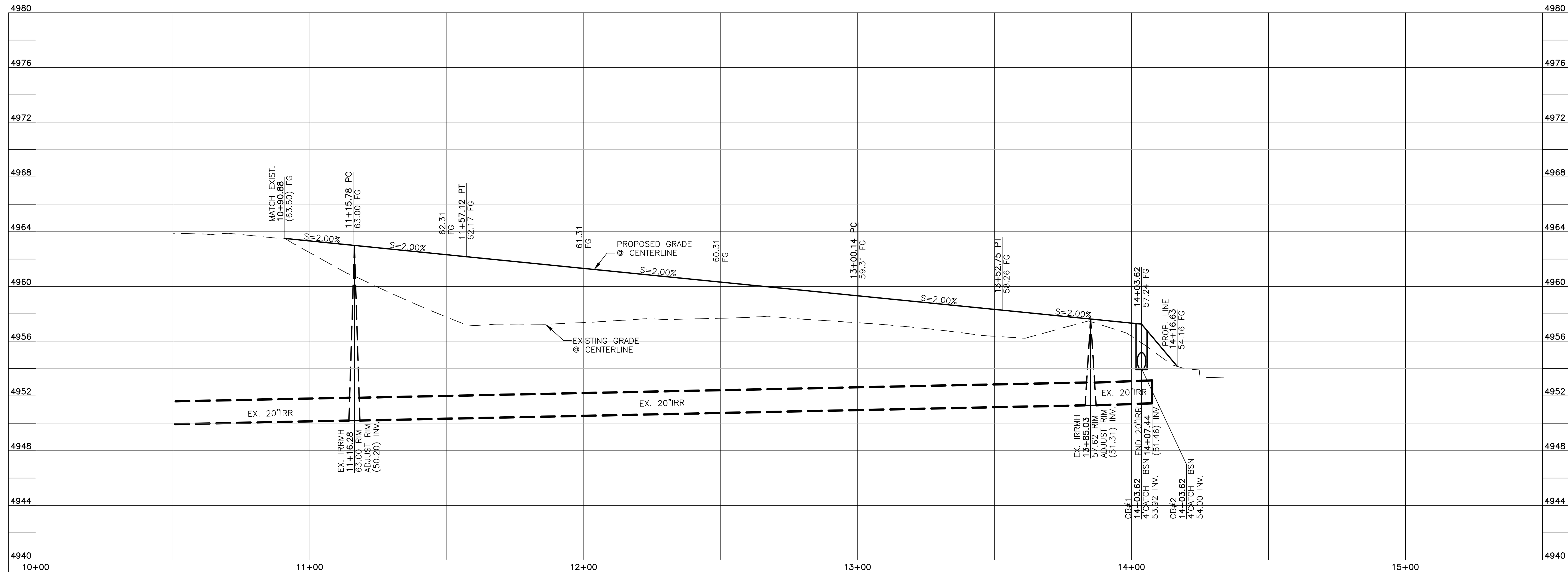
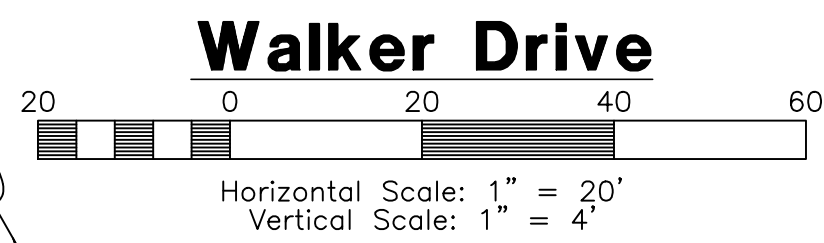
Sheet **13**
1 Sheets

Revised: 07-29-15



Centerline Curve Data						
#	Delta	Radius	Length	Tangent	Chord	CH Length
C3	11°40'06"	203.00'	41.34'	20.74'	S66°13'14"E	41.27'
C4	13°34'46"	222.00'	52.62'	26.43'	S67°10'35"E	52.49'

TBC Curve Data						
#	Delta	Radius	Length	Tangent	Chord	CH Length
C5	11°40'06"	189.00'	38.49'	19.31'	N66°13'14"W	38.42'
C6	11°40'06"	217.00'	44.19'	22.17'	N66°13'14"W	44.12'
C7	169°39'15"	2.50'	7.40'	27.61'	N24°26'26"E	4.98'
C11	105°02'48"	8.00'	14.67'	10.43'	S67°05'24"W	12.70'
C16	90°00'00"	8.00'	12.57'	8.00'	N15°23'12"W	11.31'
C17	107°02'27"	5.00'	9.34'	6.76'	S26°02'11"E	8.04'
C18	88°48'49"	5.00'	7.75'	4.90'	S71°53'27"W	7.00'
C19	167°40'53"	4.00'	11.71'	37.07'	N16°36'09"E	7.95'
C20	10°15'49"	236.00'	42.28'	21.19'	S68°50'03"E	42.22'
C21	13°34'46"	208.00'	49.30'	24.76'	S67°10'35"E	49.18'



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IRA
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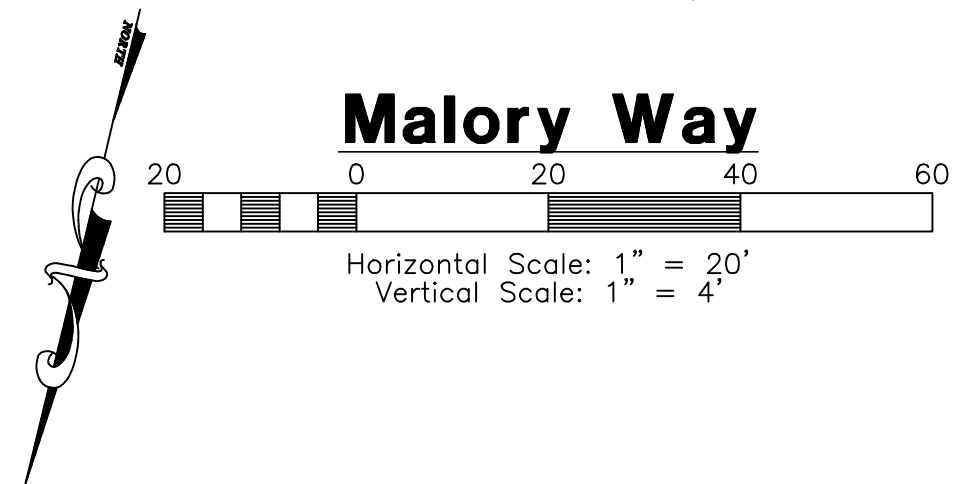
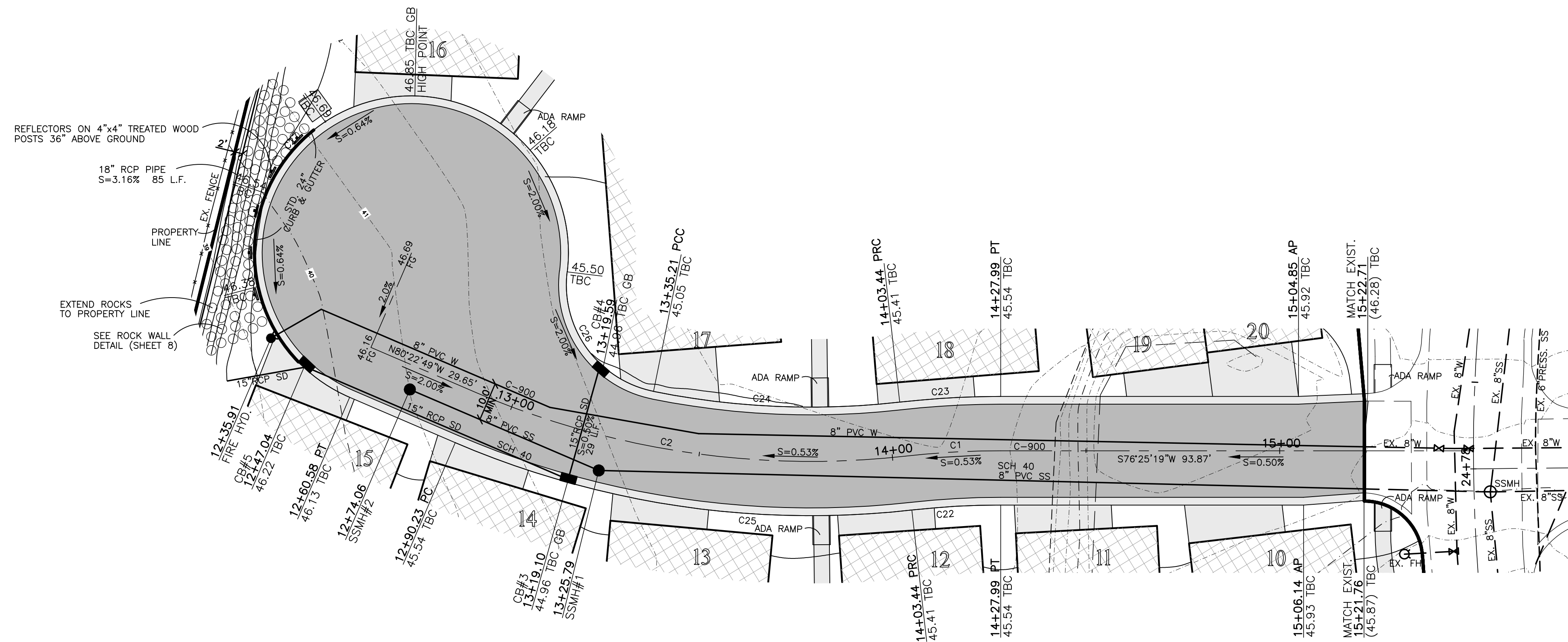
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Edgewater Beach Resort
Phase-2
 WEBER COUNTY, UTAH
Walker Drive
10+50.00 - 14+50.00

Revised: 07-29-15

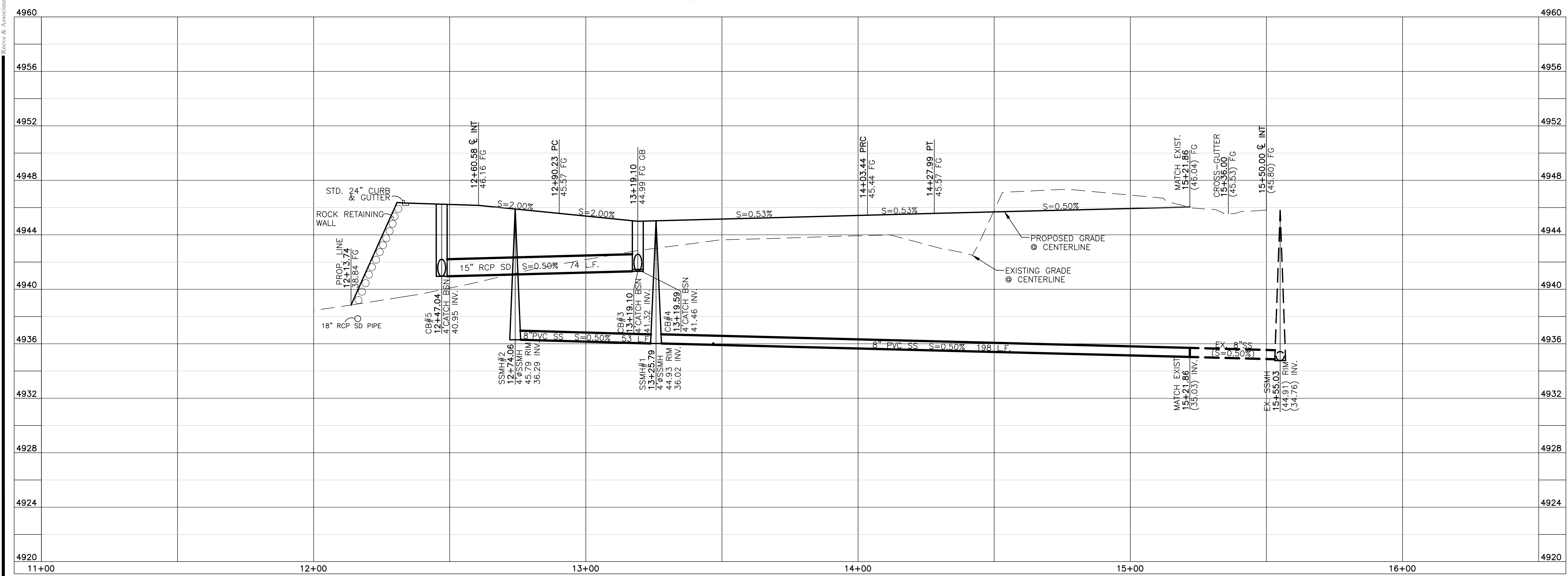
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 Number: 6240-03

Sheet **13**
 3 Sheets



#	Delta	Radius	Length	Tangent	Chord	CH Length
C1	6°25'19"	219.00'	24.55'	12.29'	S73°12'40"W	24.53'
C2	29°37'11"	219.00'	113.21'	57.90'	S84°48'35"W	111.96'

#	Delta	Radius	Length	Tangent	Chord	CH Length
C22	6°25'19"	205.00'	22.98'	11.50'	N73°12'40"E	22.97'
C23	6°25'19"	233.00'	26.12'	13.07'	N73°12'40"E	26.10'
C24	17°51'04"	205.00'	63.87'	32.20'	S78°55'32"W	63.61'
C25	29°37'11"	233.00'	120.45'	61.60'	S84°48'35"W	119.11'
C26	85°28'22"	28.00'	41.77'	25.87'	N49°24'44"W	38.00'
C27	25°34'21.6"	40.50'	179.33'	54.03'	N46°28'19"E	64.81'

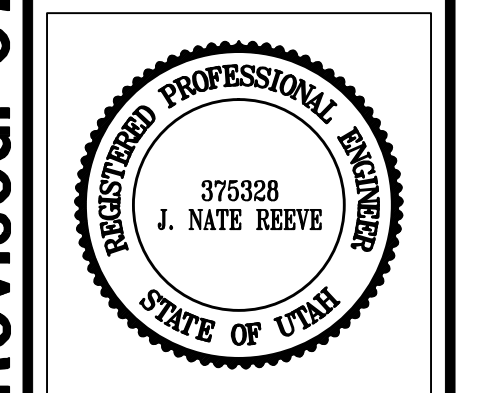


Blue Stakes Location Center
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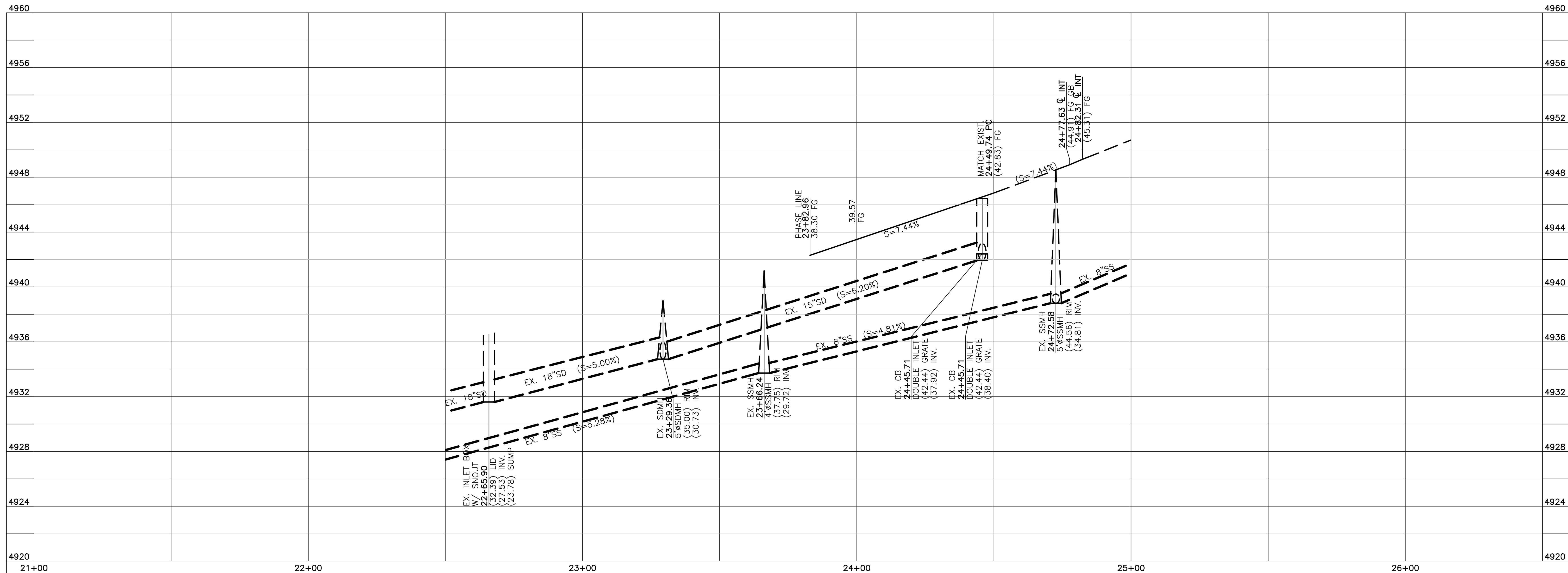
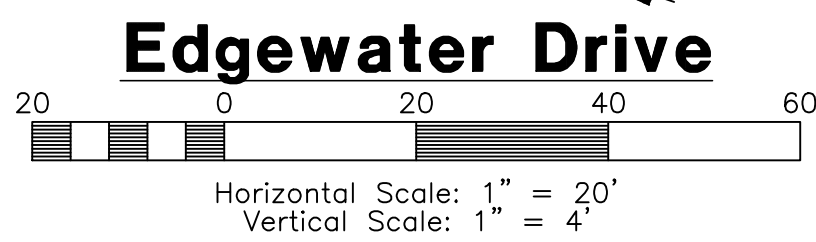
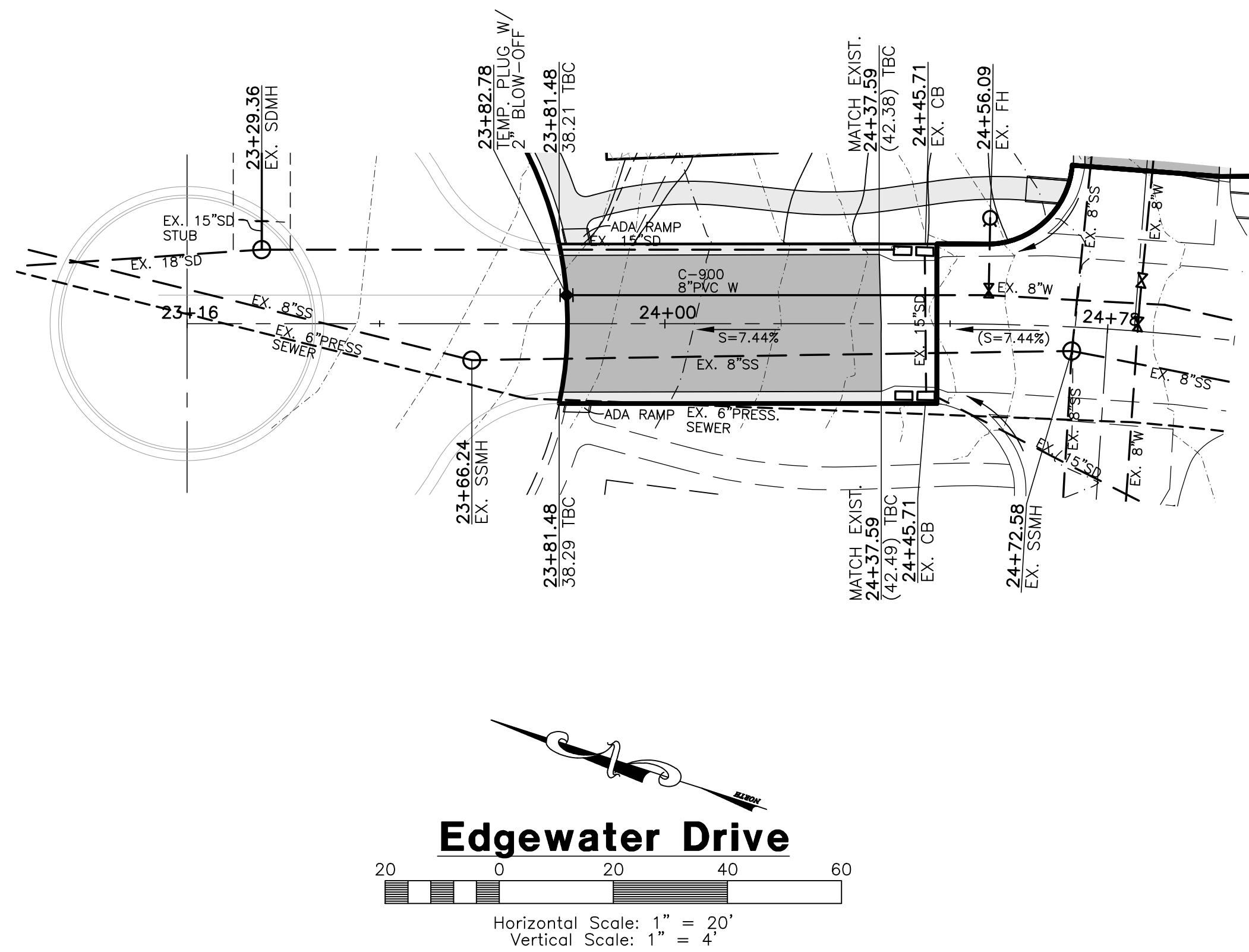
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Edgewater Beach Resort
Phase-2
 WEBER COUNTY, UTAH
Malory Way
12+00.00 - 16+00.00



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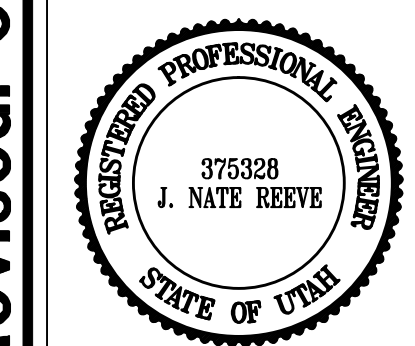
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Edgewater Beach Resort
Phase-2
 WEBER COUNTY, UTAH
Edgewater Drive
22+50.00 - 25+00.00



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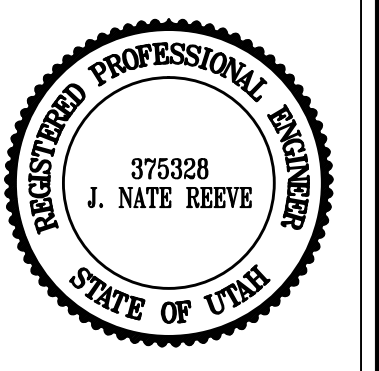
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Edgewater Beach Resort Phase-2
 WEBER COUNTY, UTAH
Grading Plan

Revised: 07-29-15

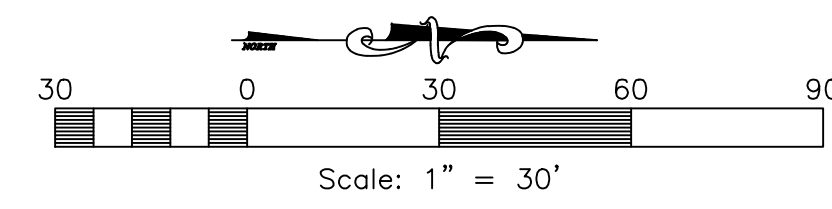


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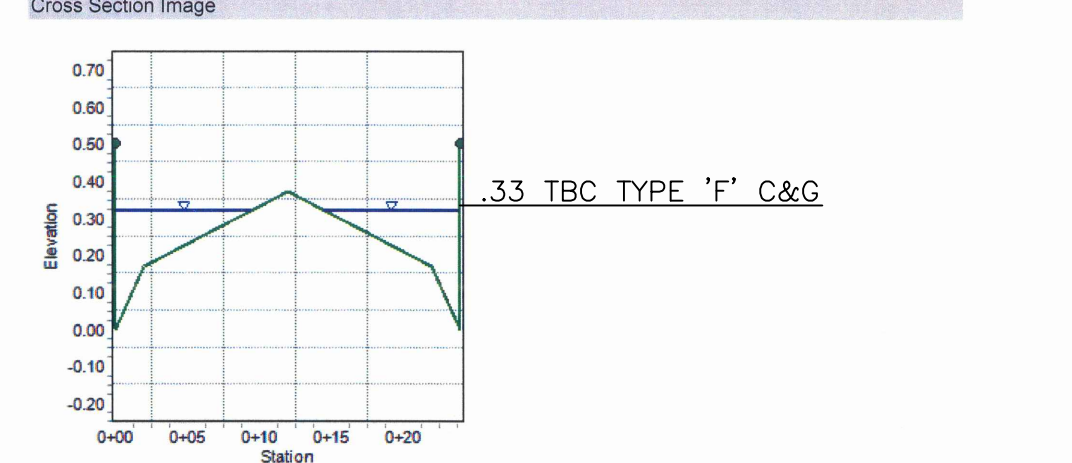
- Legend**
- MFE = MAIN FLOOR ELEVATION
 - GFE = GARAGE FLOOR ELEVATION
 - BFE = BASEMENT FLOOR ELEVATION
 - TFW = TOP OF FOUNDATION WALL
 - FFE = FINISHED FLOOR ELEVATION

- Notes:**
- 1) ALL RESIDENTIAL UNITS HAVE A BASEMENT
 - 2) ALL SIDEWALKS ARE 4' WIDE UNLESS OTHERWISE NOTED.
 - 3) CROSS-SLOPE OF SIDEWALK TO BE A MAXIMUM OF 2.0%.
 - 4) CONTRACTOR TO SLOPE GROUND AWAY FROM ALL BUILDINGS AT A MINIMUM SLOPE OF 2% FOR 10 FEET.



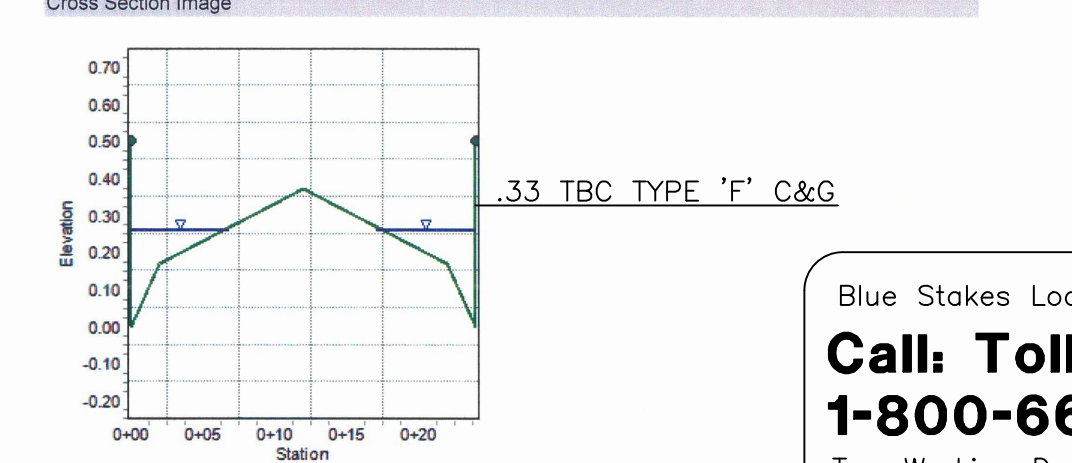
WALKER DRIVE STATION 14+00.00
 Cross Section for Irregular Section - 1

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth
Input Data	
Channel Slope	0.00500 ft/ft
Normal Depth	0.32 ft
Discharge	3.00 cfs

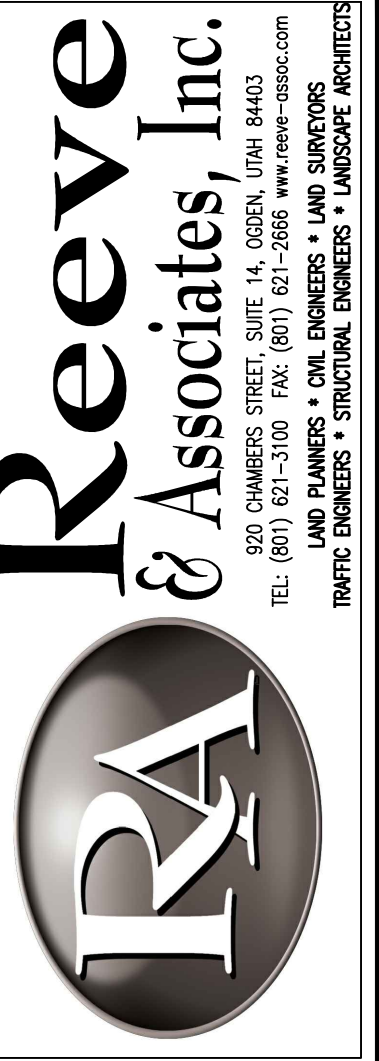


MALORY WAY STATION 13+25.00
 Cross Section for Irregular Section - 1

Project Description	
Friction Method	Manning Formula
Solve For	Normal Depth
Input Data	
Channel Slope	0.02000 ft/ft
Normal Depth	0.28 ft
Discharge	3.00 cfs

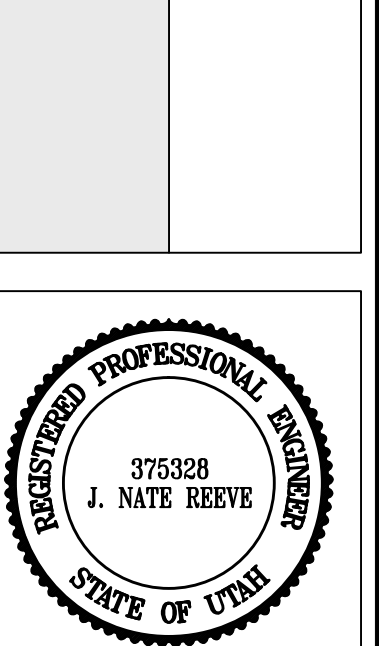


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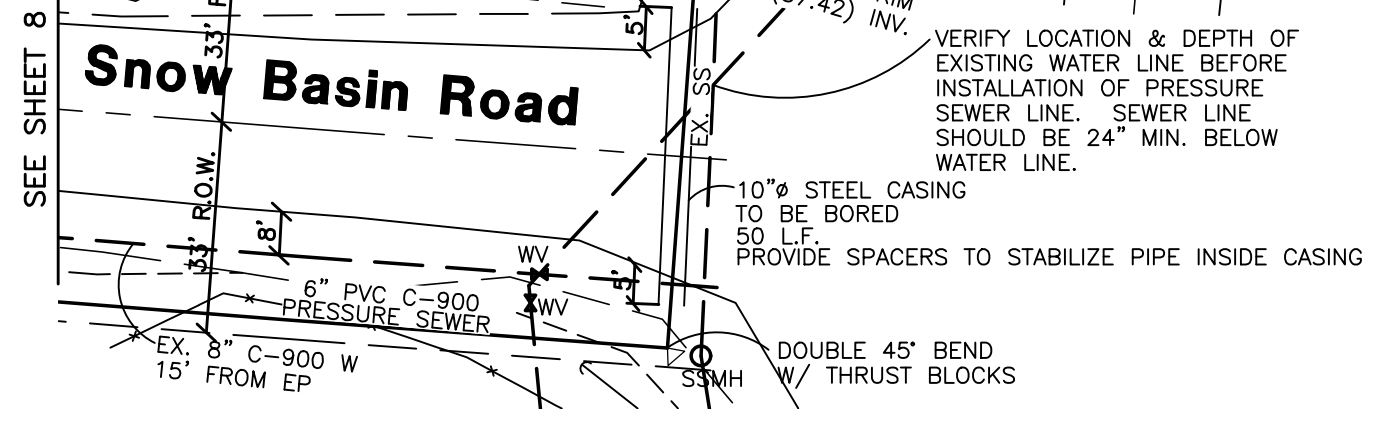
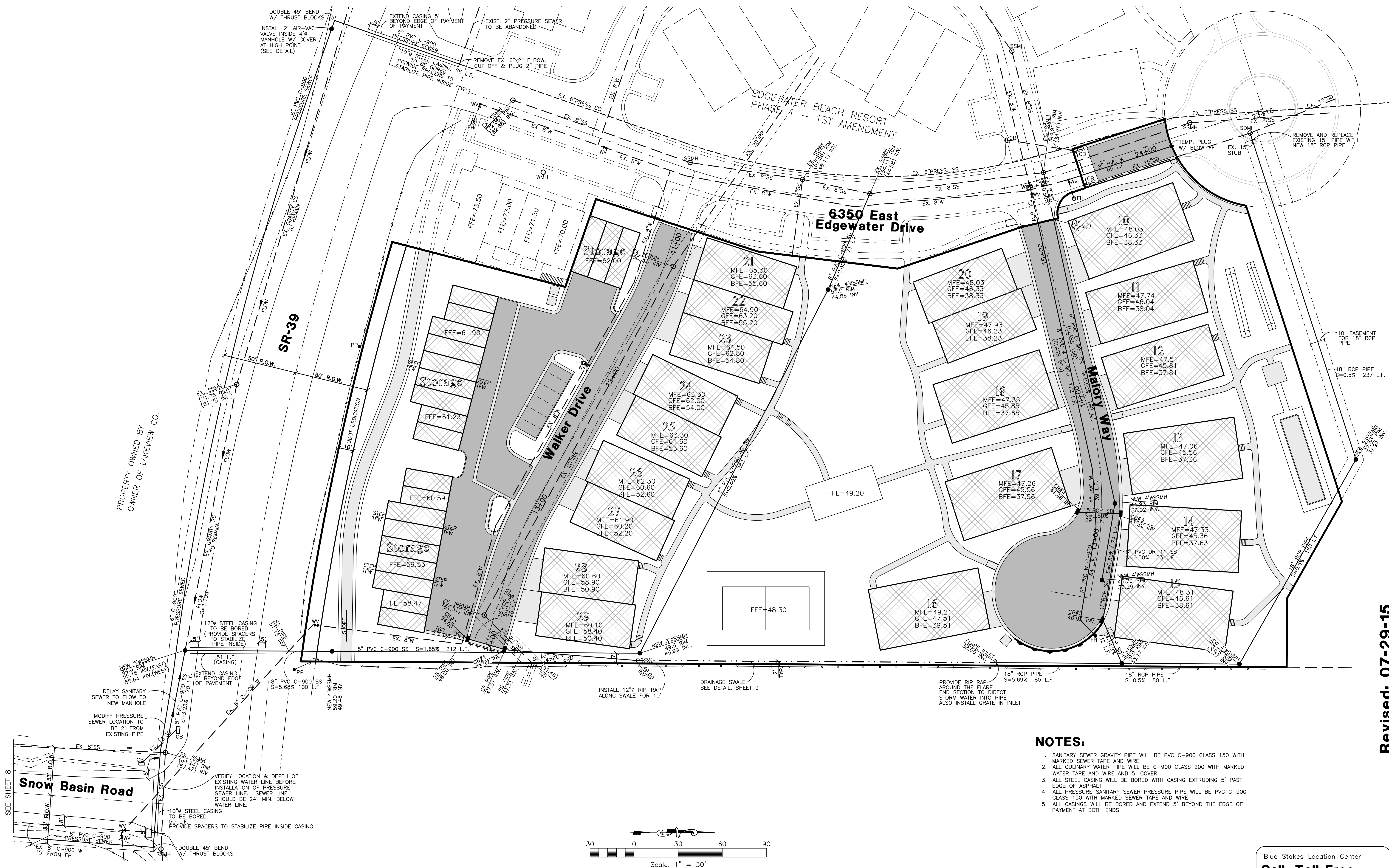
**Edgewater Beach Resort
Phase-2
Webster County, Utah**



Project Info.
 Engineer: J. NATE REEVE, P.E.
 Drafter: R. HANSEN
 Begin Date: MARCH 2, 2015
 Name: EDGEWATER BEACH RESORT PHASE-2
 Number: 6240-03

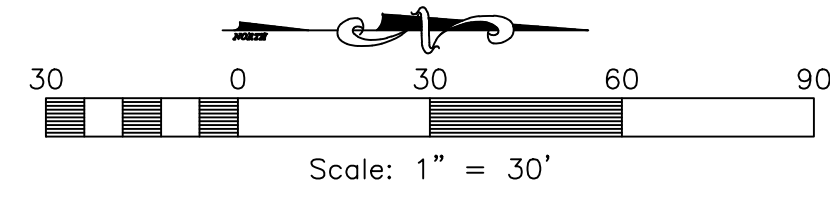
Sheet **13**
7 Sheets

Revised: 07-29-15



NOTES:

- SANITARY SEWER GRAVITY PIPE WILL BE PVC C-900 CLASS 150 WITH MARKED SEWER TAPE AND WIRE
- ALL CULINARY WATER PIPE WILL BE C-900 CLASS 200 WITH MARKED WATER TAPE AND WIRE AND 5' COVER
- ALL STEEL CASING WILL BE BORED WITH CASING EXTENDING 5' PAST EDGE OF ASPHALT
- ALL PRESSURE SANITARY SEWER PRESSURE PIPE WILL BE PVC C-900 CLASS 150 WITH MARKED SEWER TAPE AND WIRE
- ALL CASINGS WILL BE BORED AND EXTEND 5' BEYOND THE EDGE OF PAYMENT AT BOTH ENDS



Blue Stakes Location Center
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 1-800-662-4111**
 Two Working Days Before You Dig

TOTAL LENGTH OF
6" PVC SCH 40
PRESSURE SEWER = 2475 L.F.

Note:
INSTALL 6" PVC C-900 CLASS 150
SANITARY SEWER PRESSURE PIPE AT A
MINIMUM OF 5 FEET IN DEPTH.
BACKFILL AS DETAIL SHOWN ON THIS
PAGE.

**INHERENT CHARACTERISTICS OF
LARGE BOULDER RETAINING WALLS:**

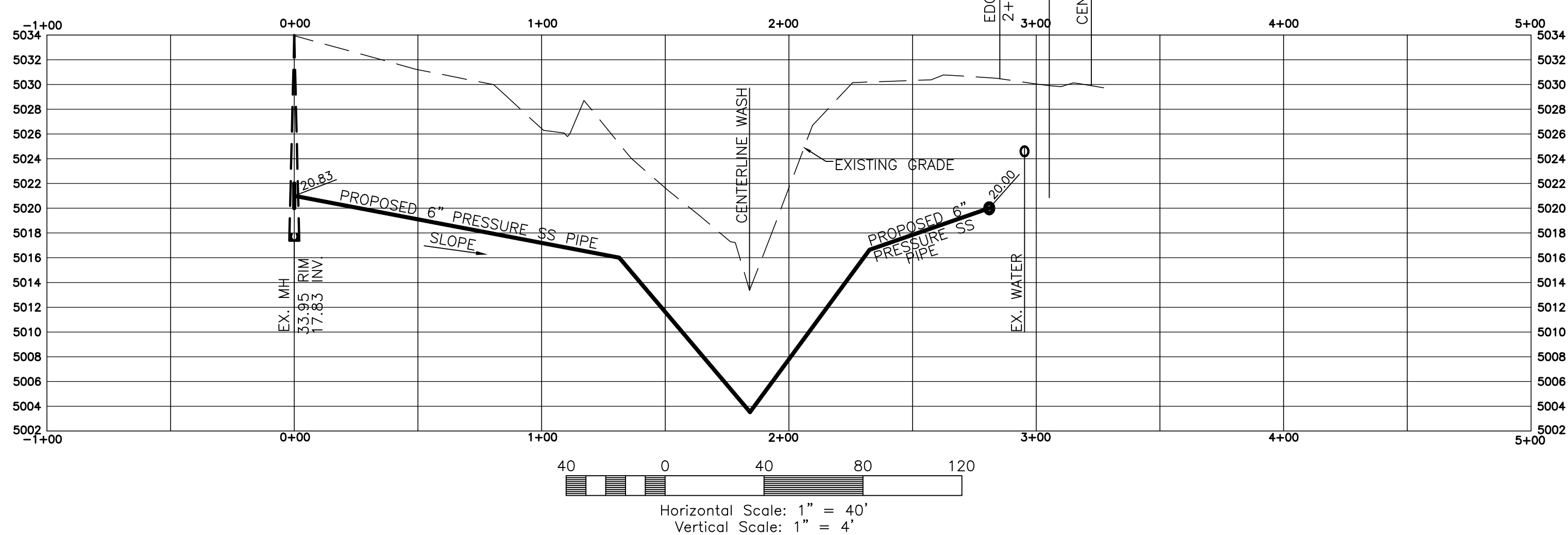
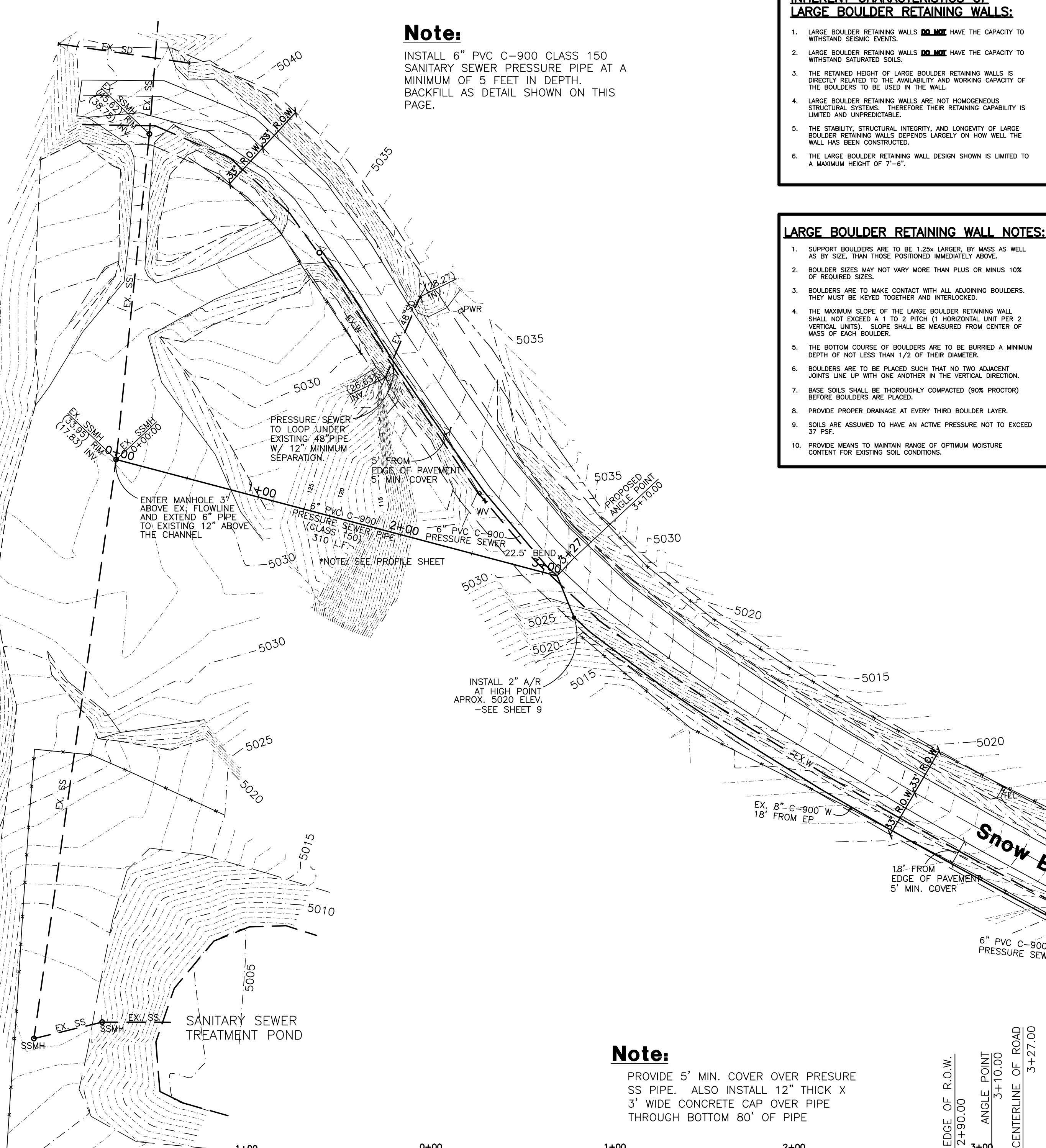
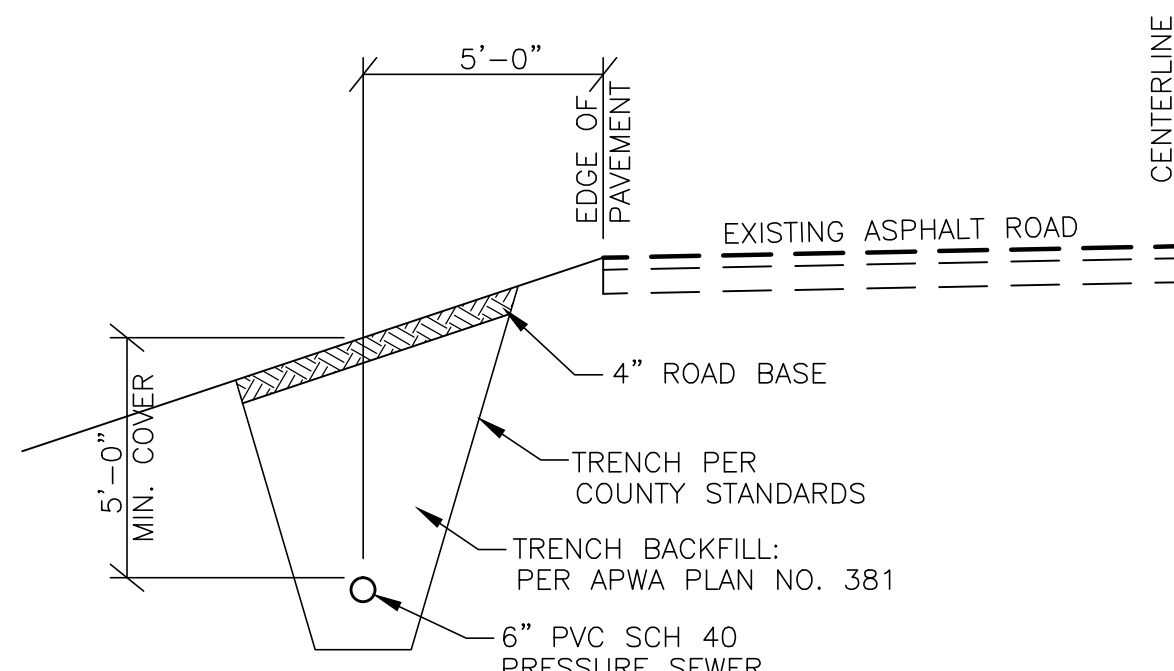
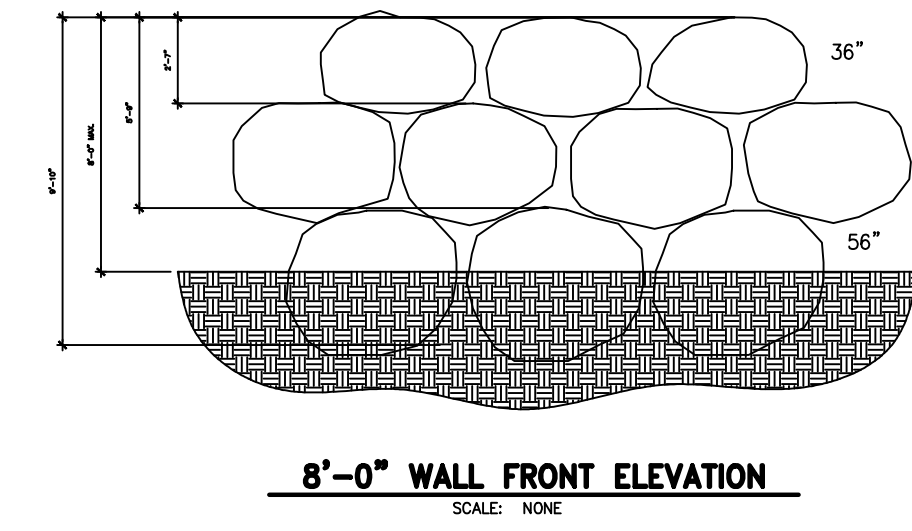
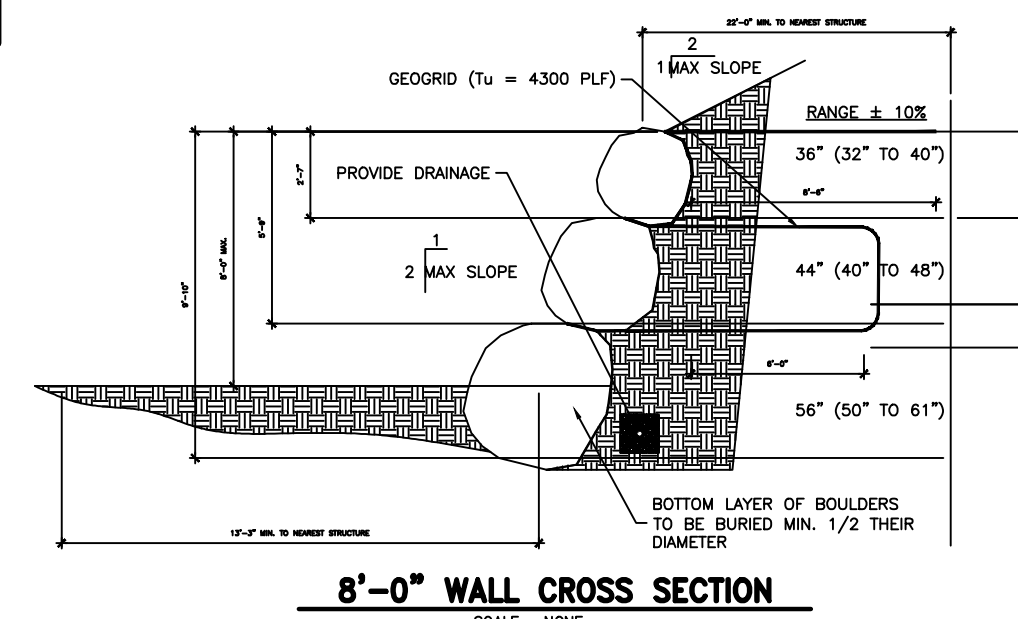
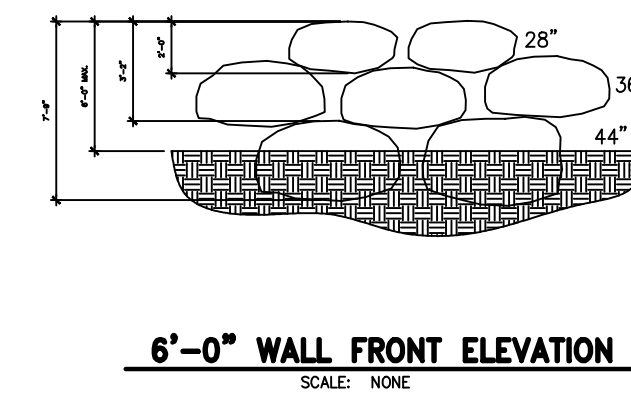
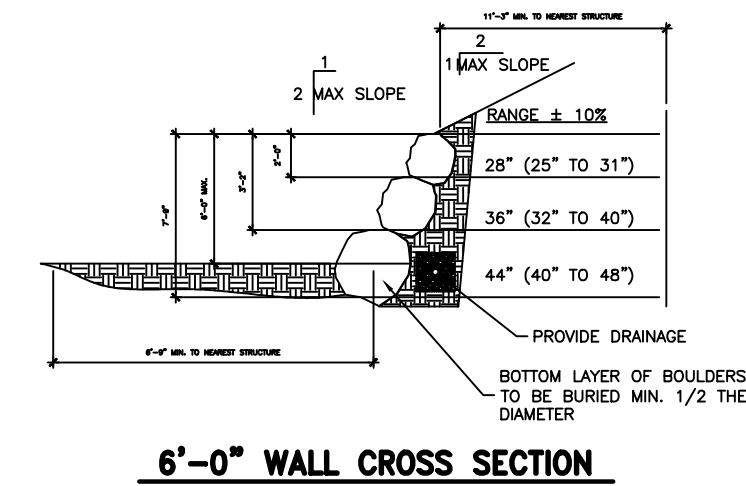
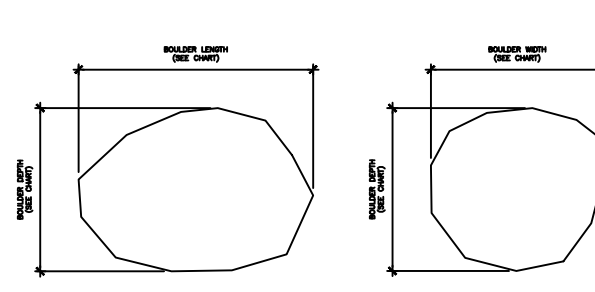
1. LARGE BOULDER RETAINING WALLS **DO NOT** HAVE THE CAPACITY TO WITHSTAND SEISMIC EVENTS.
2. LARGE BOULDER RETAINING WALLS **DO NOT** HAVE THE CAPACITY TO WITHSTAND SATURATED SOILS.
3. THE RETAINED HEIGHT OF LARGE BOULDER RETAINING WALLS IS DIRECTLY RELATED TO THE AVAILABILITY AND WORKING CAPACITY OF THE BOULDERS TO BE USED IN THE WALL.
4. LARGE BOULDER RETAINING WALLS ARE NOT HOMOGENEOUS STRUCTURAL SYSTEMS. THEREFORE THEIR RETAINING CAPABILITY IS LIMITED AND UNPREDICTABLE.
5. THE STABILITY, STRUCTURAL INTEGRITY, AND LONGEVITY OF LARGE BOULDER RETAINING WALLS DEPENDS LARGELY ON HOW WELL THE WALL HAS BEEN CONSTRUCTED.
6. THE LARGE BOULDER RETAINING WALL DESIGN SHOWN IS LIMITED TO A MAXIMUM HEIGHT OF 7'-8".

BOULDER DIMENSION CHART

BOULDER DEPTH	ALLOWABLE BOULDER LENGTH		ALLOWABLE BOULDER WIDTH	
	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM
18"	12"	27"	12"	27"
24"	15"	33"	15"	33"
28"	19"	42"	19"	42"
36"	24"	54"	24"	54"
44"	29"	67"	29"	67"
55"	37"	83"	37"	83"

LARGE BOULDER RETAINING WALL NOTES:

1. SUPPORT BOULDERS ARE TO BE 1.25x LARGER, BY MASS AS WELL AS BY SIZE, THAN THOSE POSITIONED IMMEDIATELY ABOVE.
2. BOULDER SIZES MAY NOT VARY MORE THAN PLUS OR MINUS 10% OF REQUIRED SIZES.
3. BOULDERS ARE TO MAKE CONTACT WITH ALL ADJOINING BOULDERS. THEY MUST BE KEVED TOGETHER AND INTERLOCKED.
4. THE MAXIMUM SLOPE OF THE LARGE BOULDER RETAINING WALL SHALL NOT EXCEED 1:1 TO 2:1 FROM (1 HORIZONTAL UNIT PER 2 VERTICAL UNITS). SLOPE SHALL BE MEASURED FROM CENTER OF MASS OF EACH BOULDER.
5. THE BOTTOM COURSE OF BOULDERS ARE TO BE BURIED A MINIMUM DEPTH OF NOT LESS THAN 1/2 OF THEIR DIAMETER.
6. BOULDERS ARE TO BE PLACED SUCH THAT NO TWO ADJACENT JOINTS LINE UP WITH ONE ANOTHER IN THE VERTICAL DIRECTION.
7. BASE SOILS SHALL BE THOROUGHLY COMPACTED (90% PROCTOR) BEFORE BOULDERS ARE PLACED.
8. PROVIDE PROPER DRAINAGE AT EVERY THIRD BOLDER LAYER.
9. SOILS ARE ASSUMED TO HAVE AN ACTIVE PRESSURE NOT TO EXCEED 37 PSF.
10. PROVIDE MEANS TO MAINTAIN RANGE OF OPTIMUM MOISTURE CONTENT FOR EXISTING SOIL CONDITIONS.



Reeve & Associates, Inc.
Land Planners • Civil Engineers • Land Surveyors
Traffic Engineers • Structural Engineers • Landscape Architects
920 Chambers Street, Suite 14 • Ogden, UT 84403
Phone: (801) 621-2100 Fax: (801) 621-2866

Edgewater Beach
Boulder Retaining Walls
Huntsville, Utah
Date: 7/6/2015
Sheet: 1 of 1
Designed By: JMT
Project Number:

INHERENT CHARACTERISTICS OF LARGE BOULDER RETAINING WALLS:

1. LARGE BOULDER RETAINING WALLS DO NOT HAVE THE CAPACITY TO WITHSTAND SEISMIC EVENTS.
2. LARGE BOULDER RETAINING WALLS DO NOT HAVE THE CAPACITY TO WITHSTAND SATURATED SOILS.
3. THE RETAINED HEIGHT OF LARGE BOULDER RETAINING WALLS IS DIRECTLY RELATED TO THE AVAILABILITY AND WORKING CAPACITY OF THE BOULDERS TO BE USED IN THE WALL.
4. LARGE BOULDER RETAINING WALLS ARE NOT HOMOGENEOUS STRUCTURAL SYSTEMS. THEREFORE THEIR RETAINING CAPABILITY IS LIMITED AND UNPREDICTABLE.
5. THE STABILITY, STRUCTURAL INTEGRITY, AND LONGEVITY OF LARGE BOULDER RETAINING WALLS DEPENDS LARGELY ON HOW WELL THE WALL HAS BEEN CONSTRUCTED.
6. THE LARGE BOULDER RETAINING WALL DESIGN SHOWN IS LIMITED TO A MAXIMUM HEIGHT OF 8'-0".

Design Input Data

boulder density	144 pcf
wall angle	30 deg
active soil press	46 pcf
coeff of friction	0.649
soil weight	100 pcf

Max Wall Height: 8.83 ft

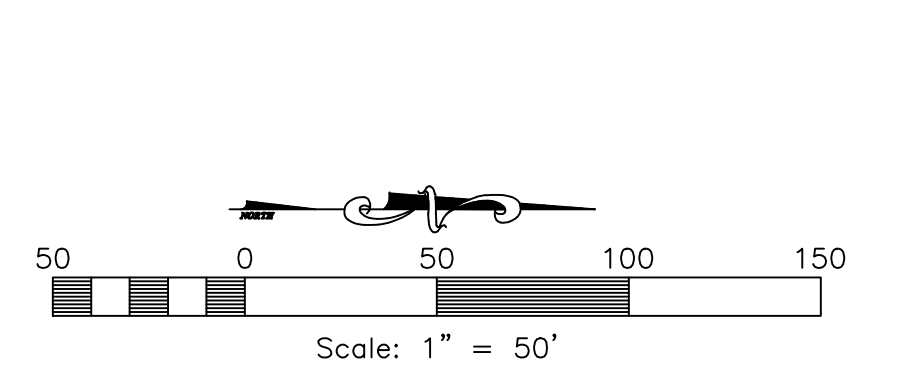
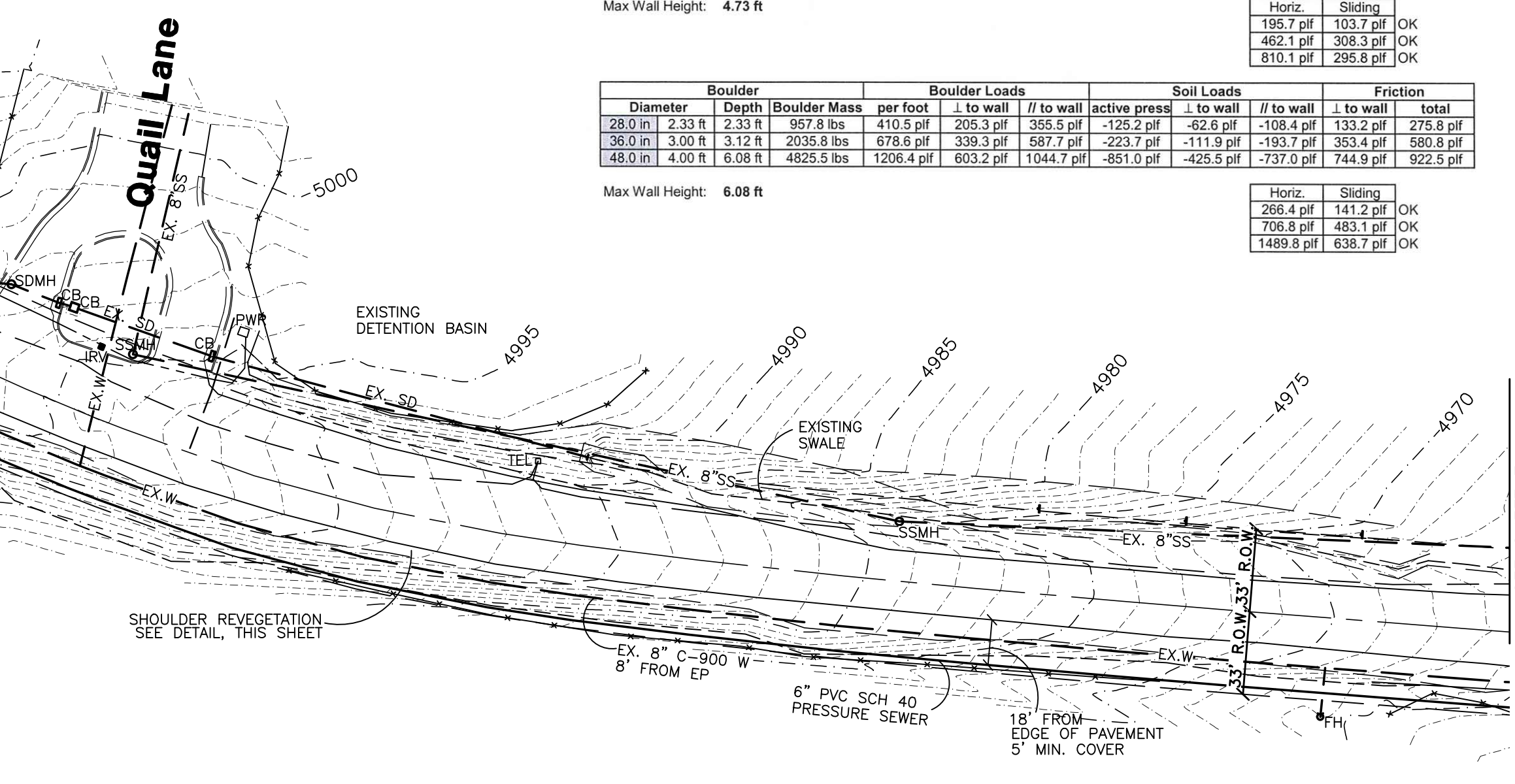
Horiz.	Sliding
195.7 pcf	103.7 pcf
636.1 pcf	453.9 pcf
1235.6 pcf	511.4 pcf
2018.5 pcf	227.1 pcf

Max Wall Height: 4.73 ft

Horiz.	Sliding
195.7 pcf	103.7 pcf
482.1 pcf	308.3 pcf
810.1 pcf	295.8 pcf

Max Wall Height: 6.08 ft

Horiz.	Sliding
266.4 pcf	141.2 pcf
706.8 pcf	483.1 pcf
1489.6 pcf	638.7 pcf



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TEL: (801) 621-2100 FAX: (801) 621-2866 WWW.REEVE-ASSOCIATES.COM

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REVISIONS

DATE	DESCRIPTION
4-23-15	RH County Comments
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Edgewater Beach Resort
Phase-2
WEBER COUNTY, UTAH

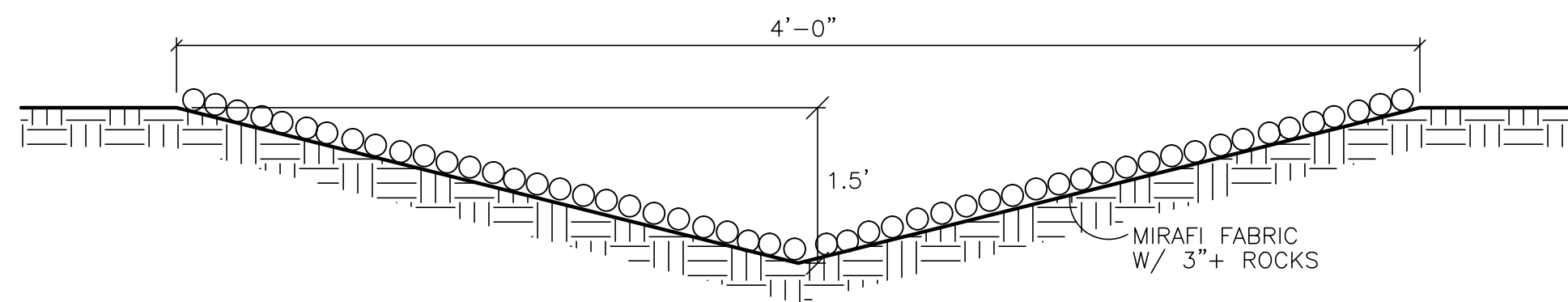
Utility Plan

Revised: 07-29-15

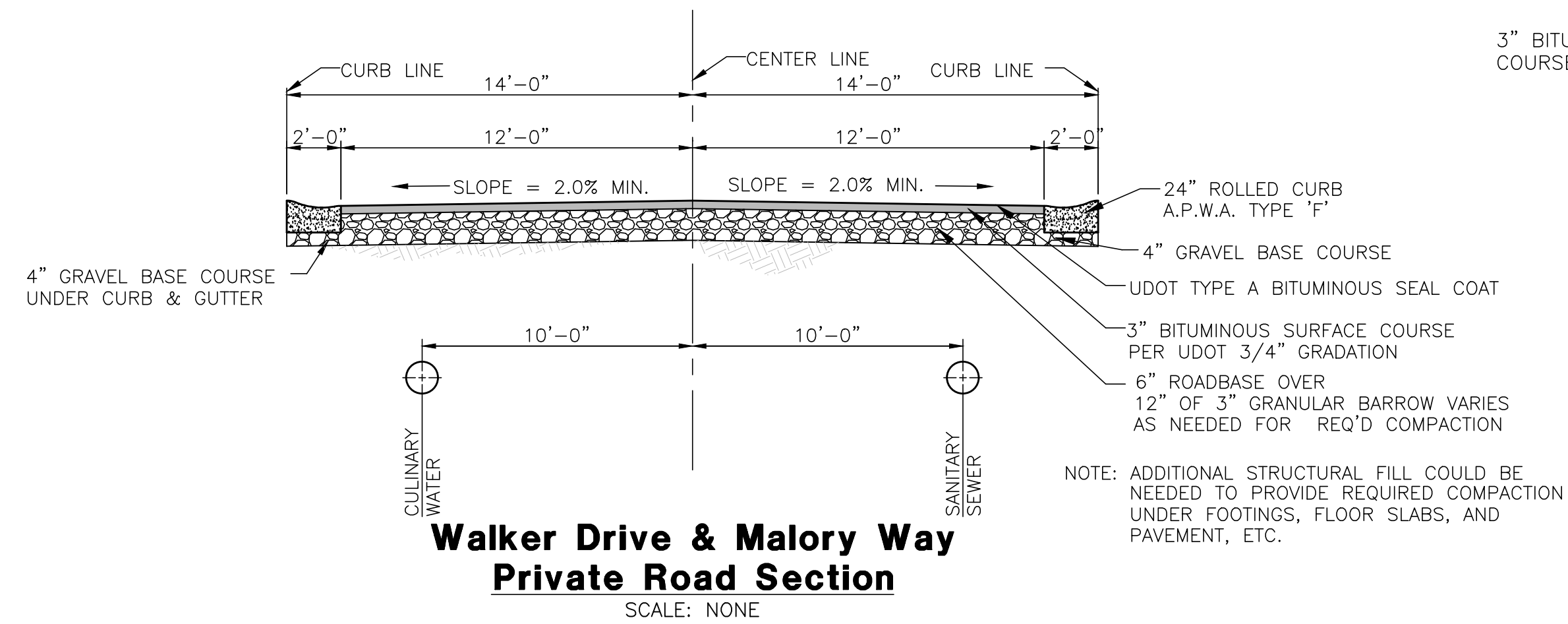
REGISTERED PROFESSIONAL ENGINEER
375328
J. NATE REEVE
STATE OF UTAH

Project Info.
Engineer: J. NATE REEVE, P.E.
Drafter: R. HANSEN
Begin Date: MARCH 2, 2015
Name: EDGEWATER BEACH RESORT PHASE-2
Number: 6240-03

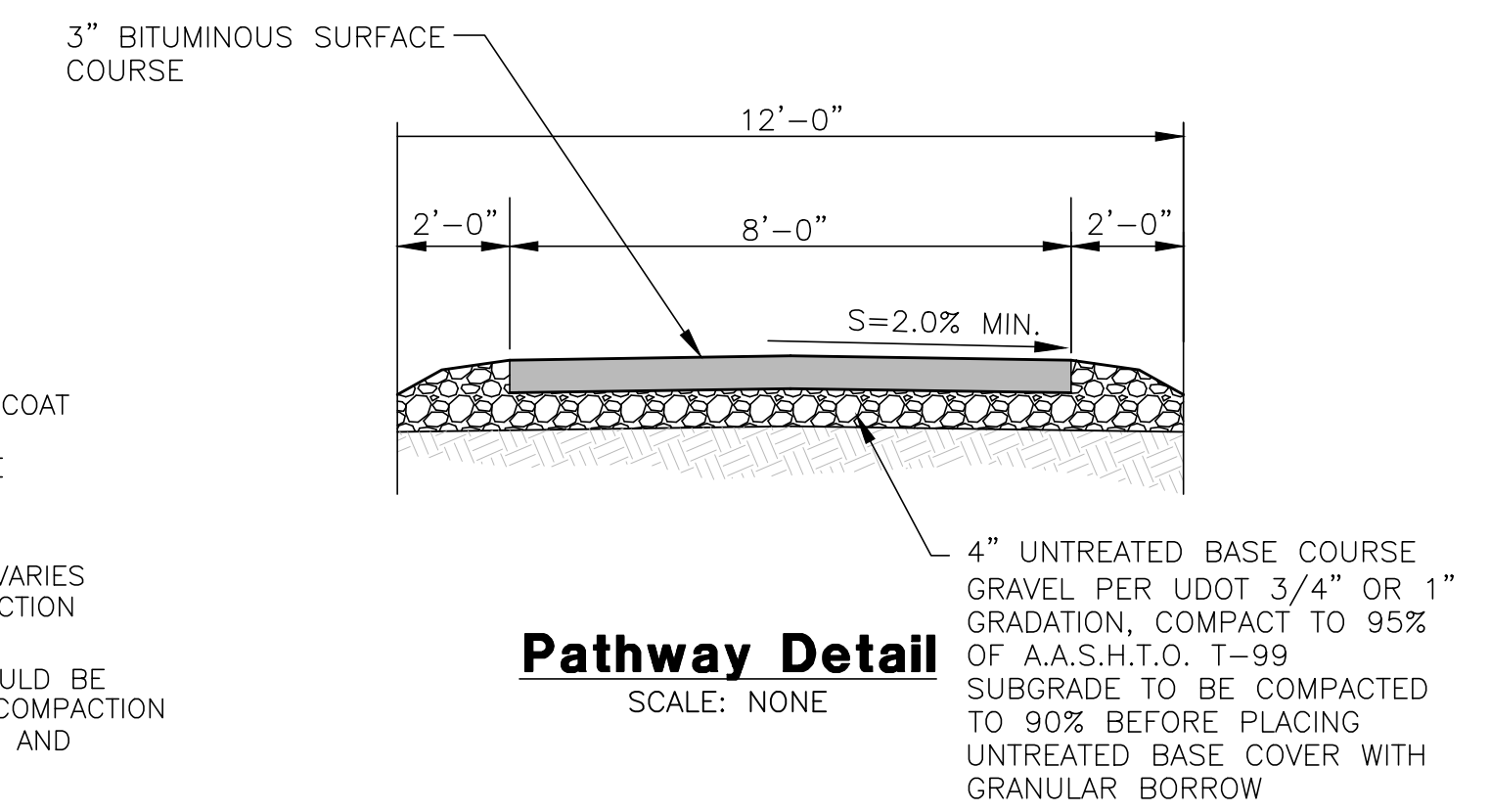
Sheet **13**
8 Sheets



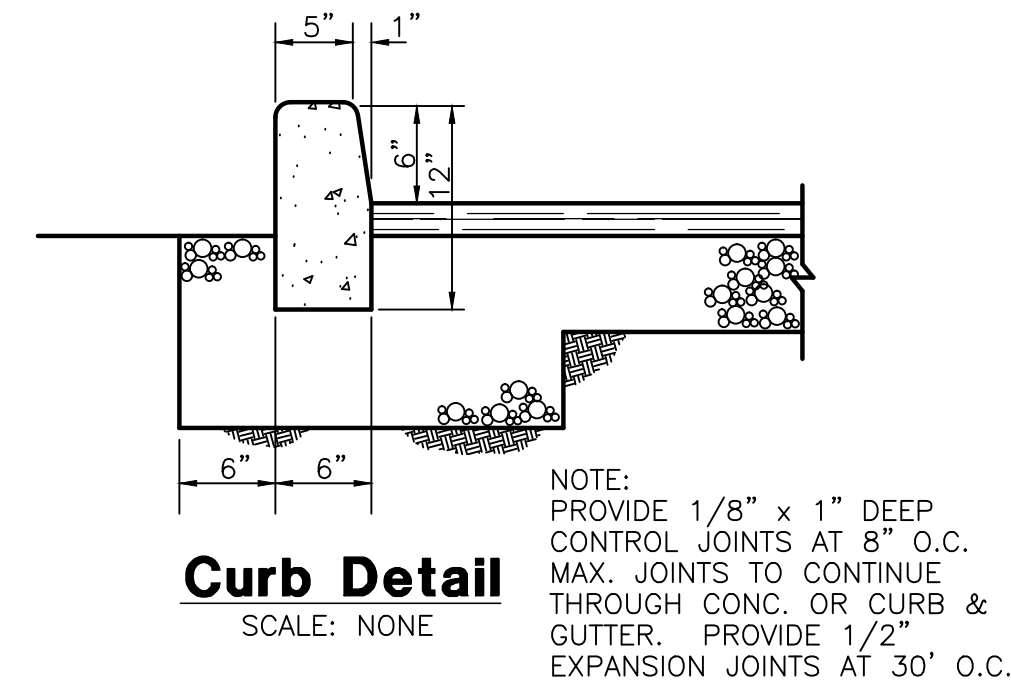
Swale Detail
SCALE: NONE



Walker Drive & Malory Way Private Road Section
SCALE: NONE

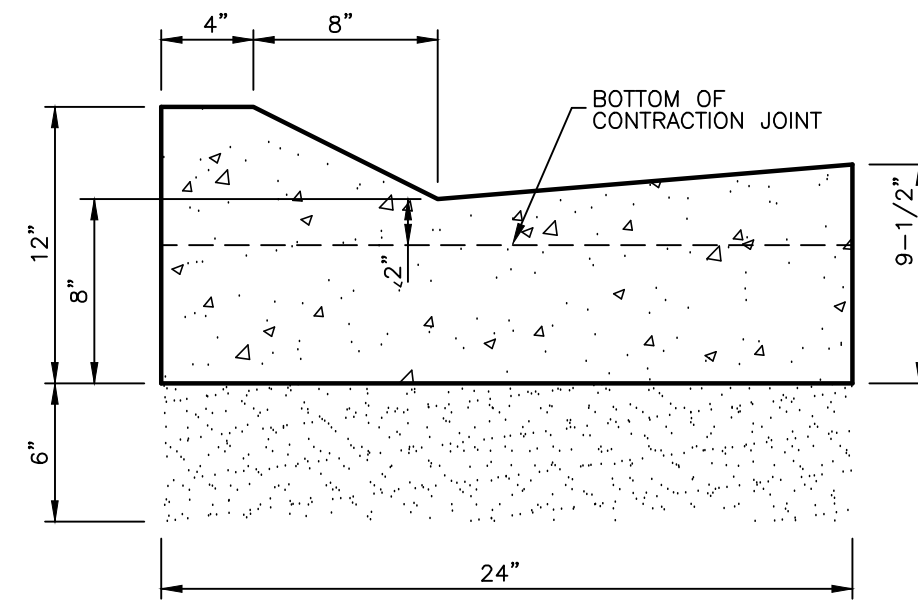


Pathway Detail
SCALE: NONE

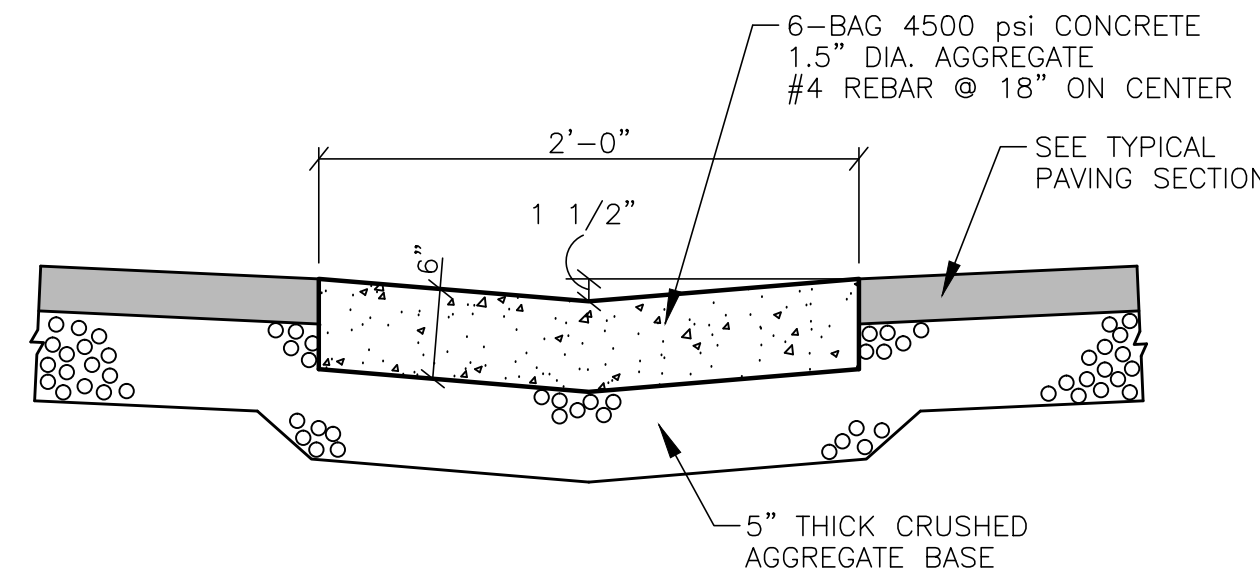


Curb Detail
SCALE: NONE

NOTE: PROVIDE 1/8" x 1" DEEP CONTROL JOINTS AT 8" O.C. MAX. JOINTS TO CONTINUE THROUGH CONC. OR CURB & GUTTER. PROVIDE 1/2" EXPANSION JOINTS AT 30' O.C.

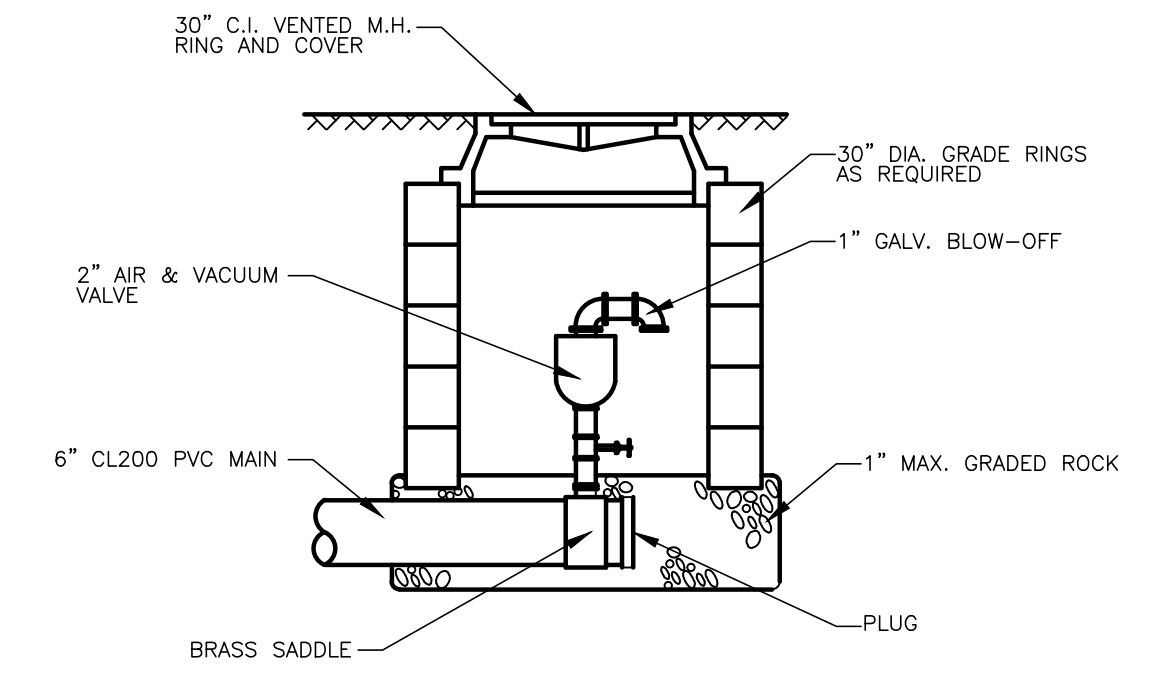


On-Site Type 'F' Curb & Gutter
SCALE: NONE

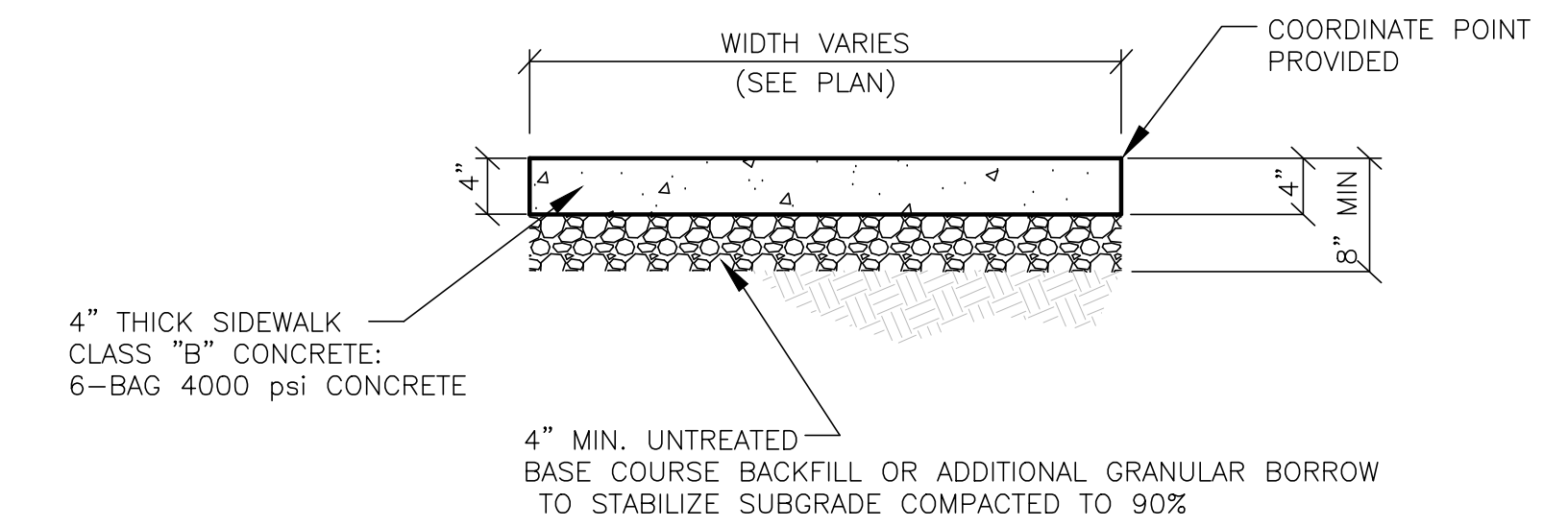


2' Waterway Detail
SCALE: NONE

(REFER TO THE SITE SPECIFIC GEOTECHNICAL REPORT, PREPARED BY GORDON GEOTECHNICAL ENGINEERING, INC. DATED AUGUST 8, 2013. GEOTECHNICAL REPORT TO GOVERN & CONTROL.)

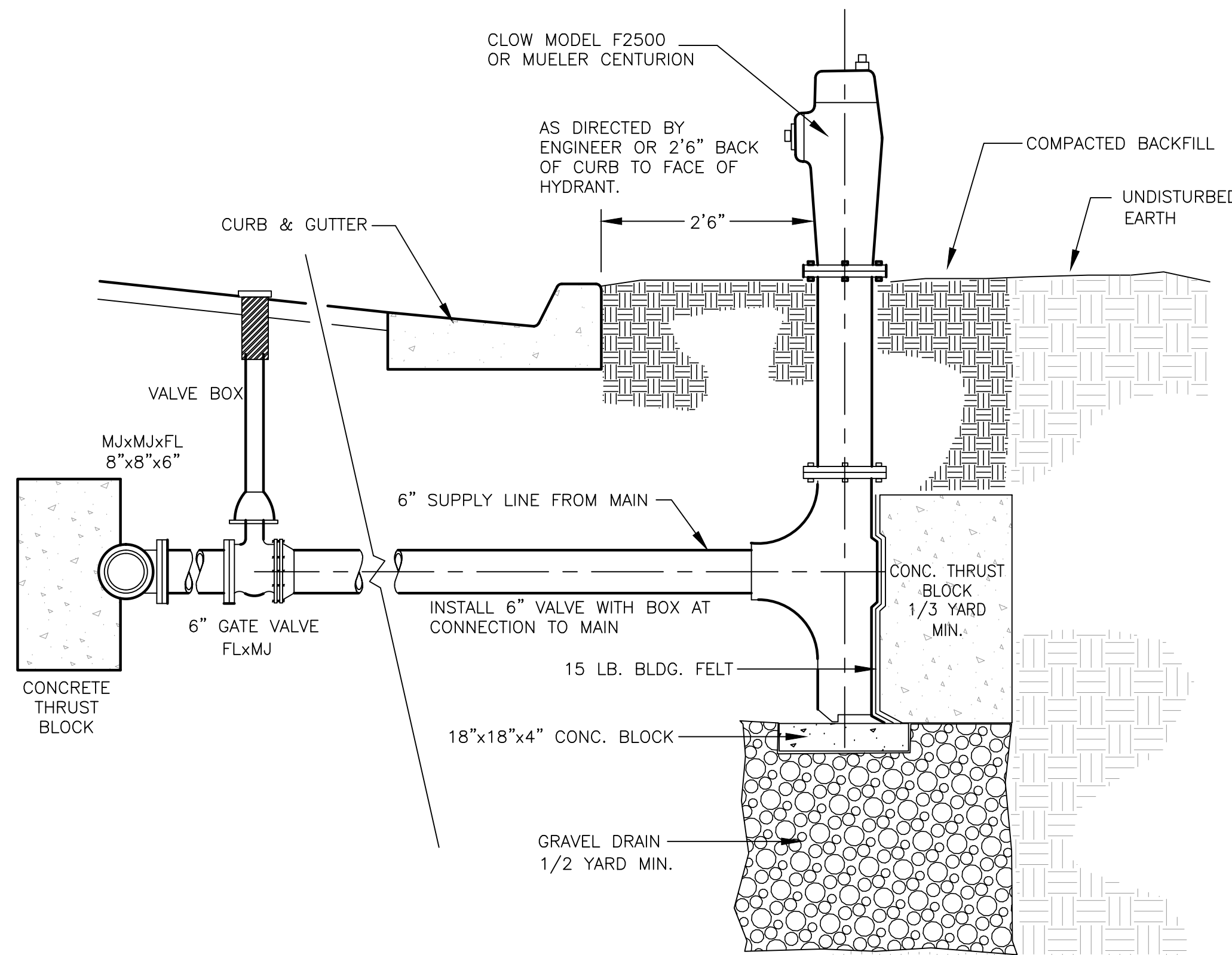


Pressure Sewer Air-Vacuum Valve Station
SCALE: NONE

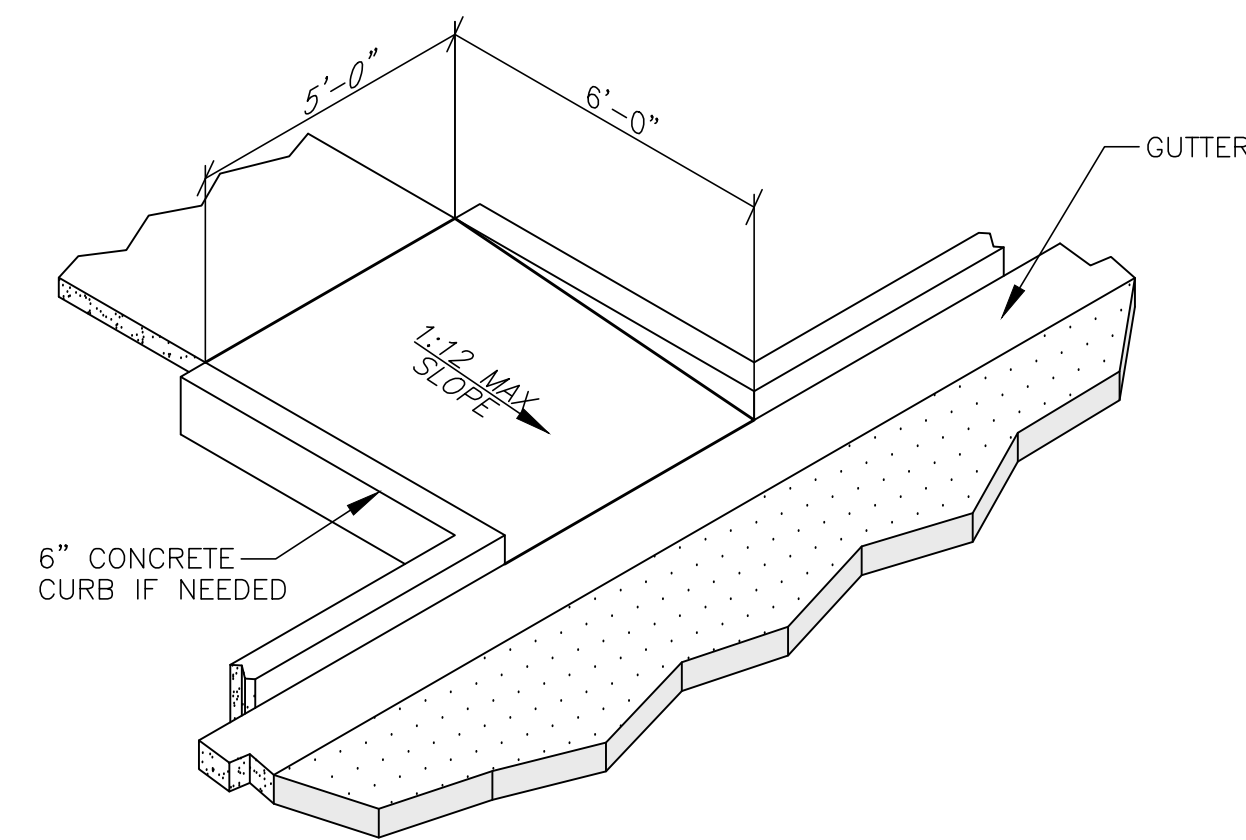


Walkway Detail
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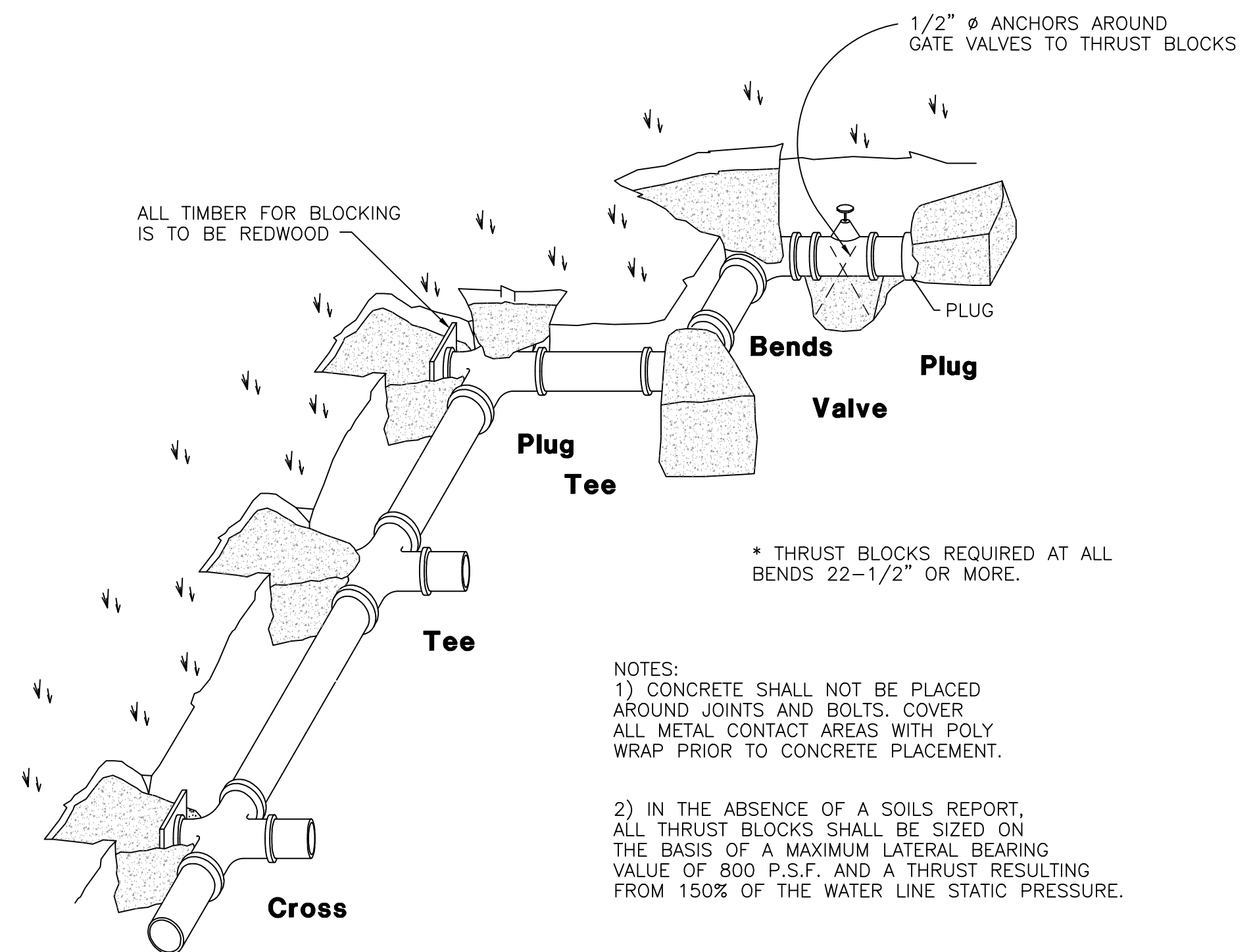
(REFER TO SITE SPECIFIC GEOTECHNICAL REPORT)



Fire Hydrant Detail
SCALE: NONE



Handicap Ramp Detail
SCALE: NONE



Thrust Block Detail
SCALE: NONE

NOTES:
1) CONCRETE SHALL NOT BE PLACED AROUND JOINTS AND BOLTS. COVER ALL METAL CONTACT AREAS WITH POLY WRAP PRIOR TO CONCRETE PLACEMENT.
2) IN THE ABSENCE OF A SOILS REPORT, ALL THRUST BLOCKS SHALL BE SIZED ON THE BASIS OF A MAXIMUM LATERAL BEARING VALUE OF 800 P.S.F. AND A THRUST RESULTING FROM 150% OF THE WATER LINE STATIC PRESSURE.

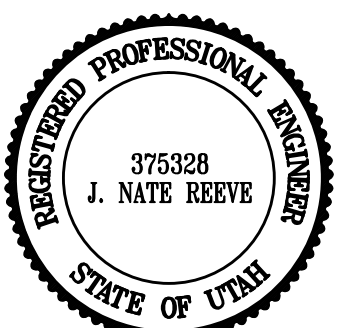


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Edgewater Beach Resort Phase-2
WEBER COUNTY, UTAH

Civil Details

Revised: 07-29-15

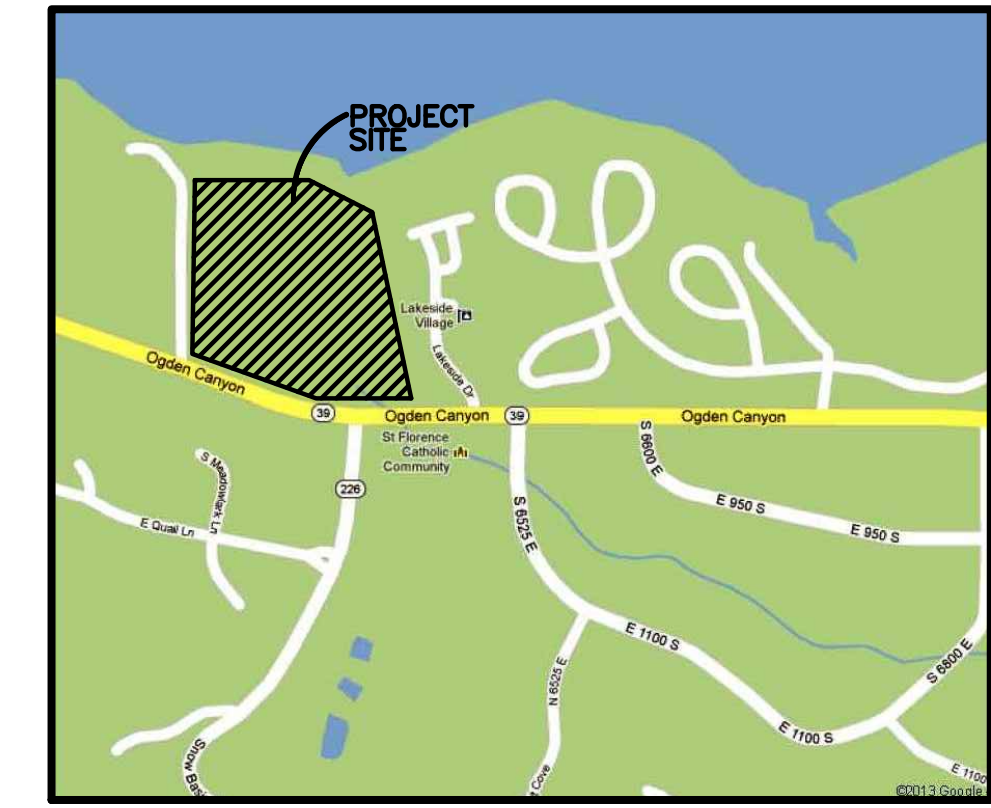


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Drafter: R. HANSEN
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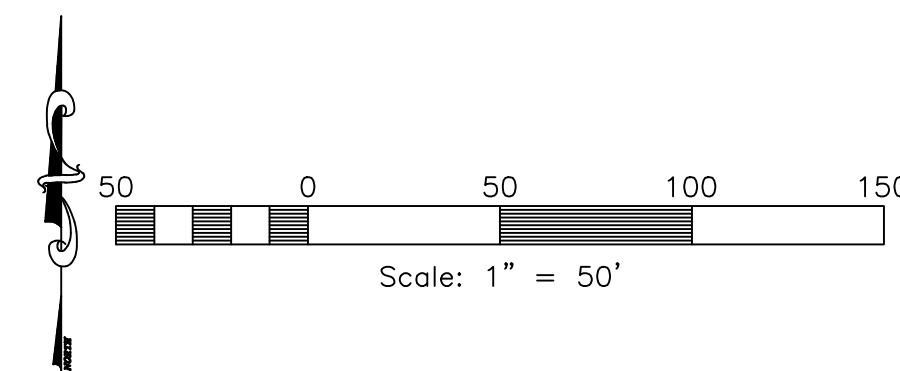
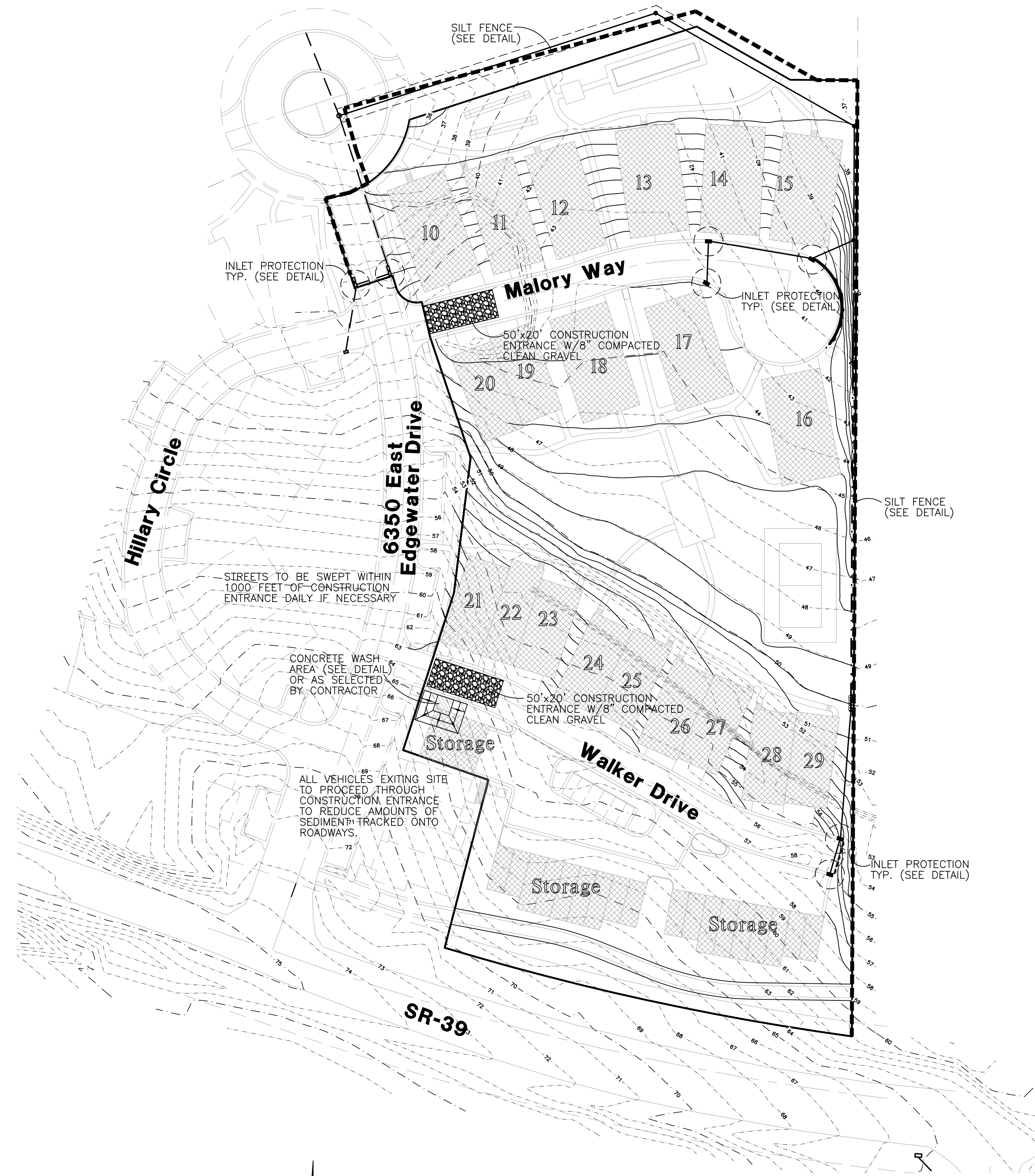
Sheet **13**
9 Sheets

EDGEWATER BEACH RESORT Phase-2 Storm Water Pollution Prevention Plan Exhibit

WEBER COUNTY, UTAH
MARCH 2015



Vicinity Map
NOT TO SCALE



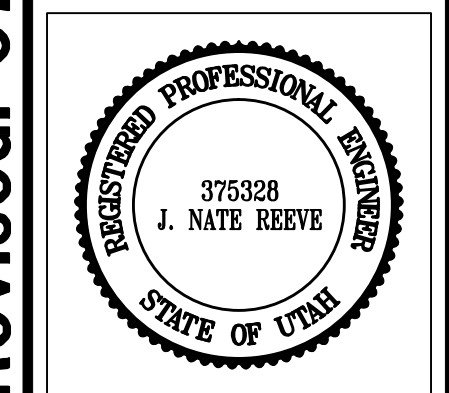
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**Edgewater Beach Resort
Phase-2
Storm Water Pollution
Prevention Plan Exhibit**

WEBER COUNTY, UTAH



Project Info.

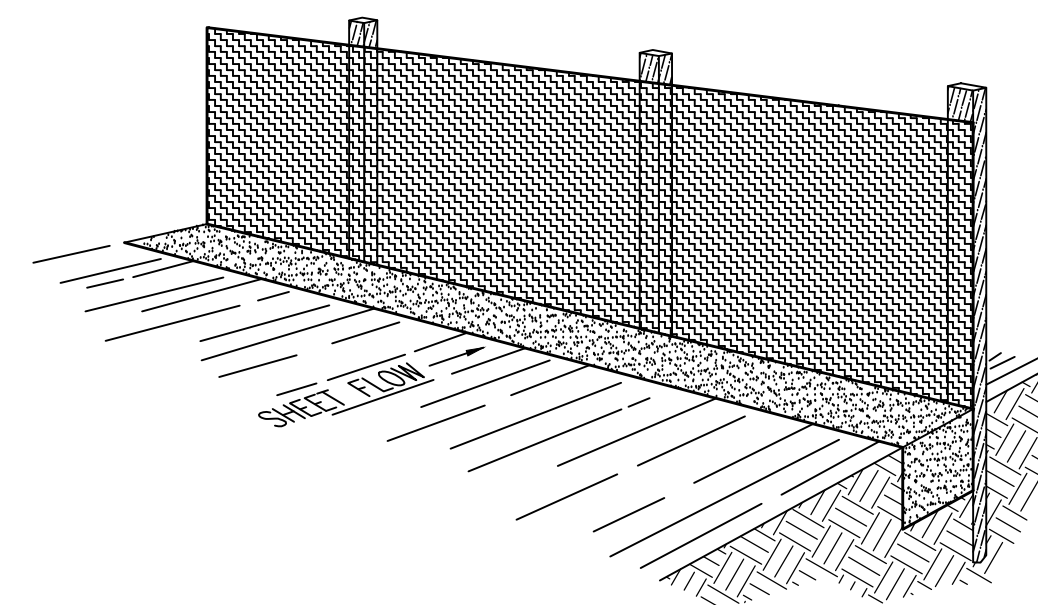
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Construction Activity Schedule

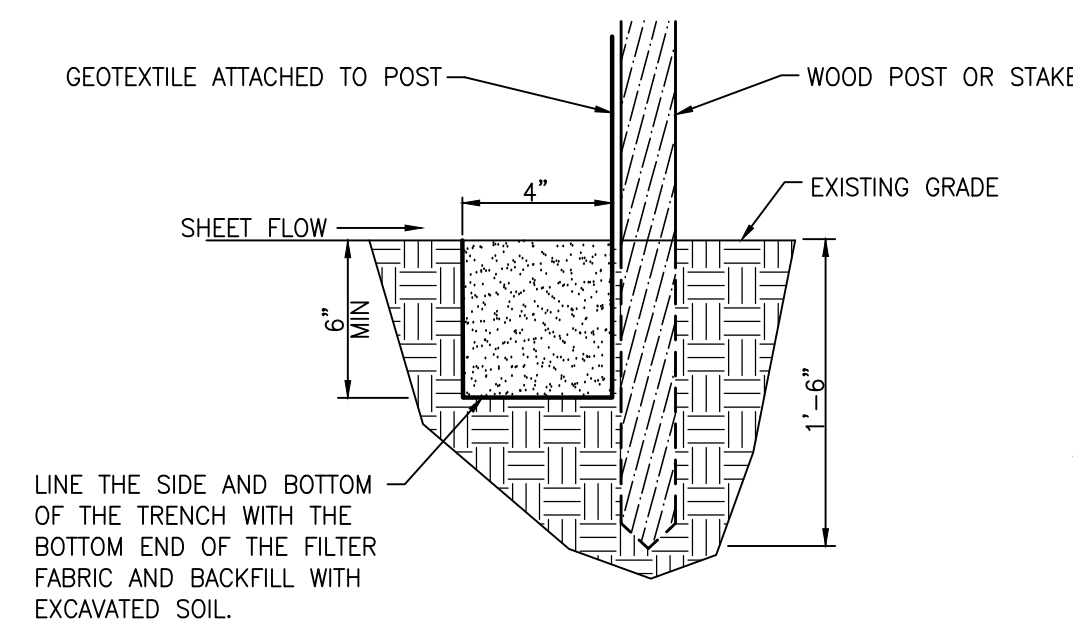
- PROJECT LOCATION.....WEBER COUNTY, UTAH
- PROJECT BEGINNING DATE.....MARCH 2015
- BMP'S DEPLOYMENT DATE.....MARCH 2015
- STORM WATER MANAGEMENT CONTACT / INSPECTOR.....DAN ROSS (801) 335-8500
- SPECIFIC CONSTRUCTION SCHEDULE INCLUDING BMP CONSTRUCTION SCHEDULE TO BE INCLUDED WITH SWPPP BY OWNER/DEVELOPER

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
 - Keep 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 property 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 II.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 cleanup.

REMOVAL

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

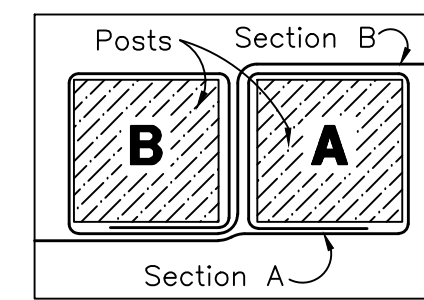
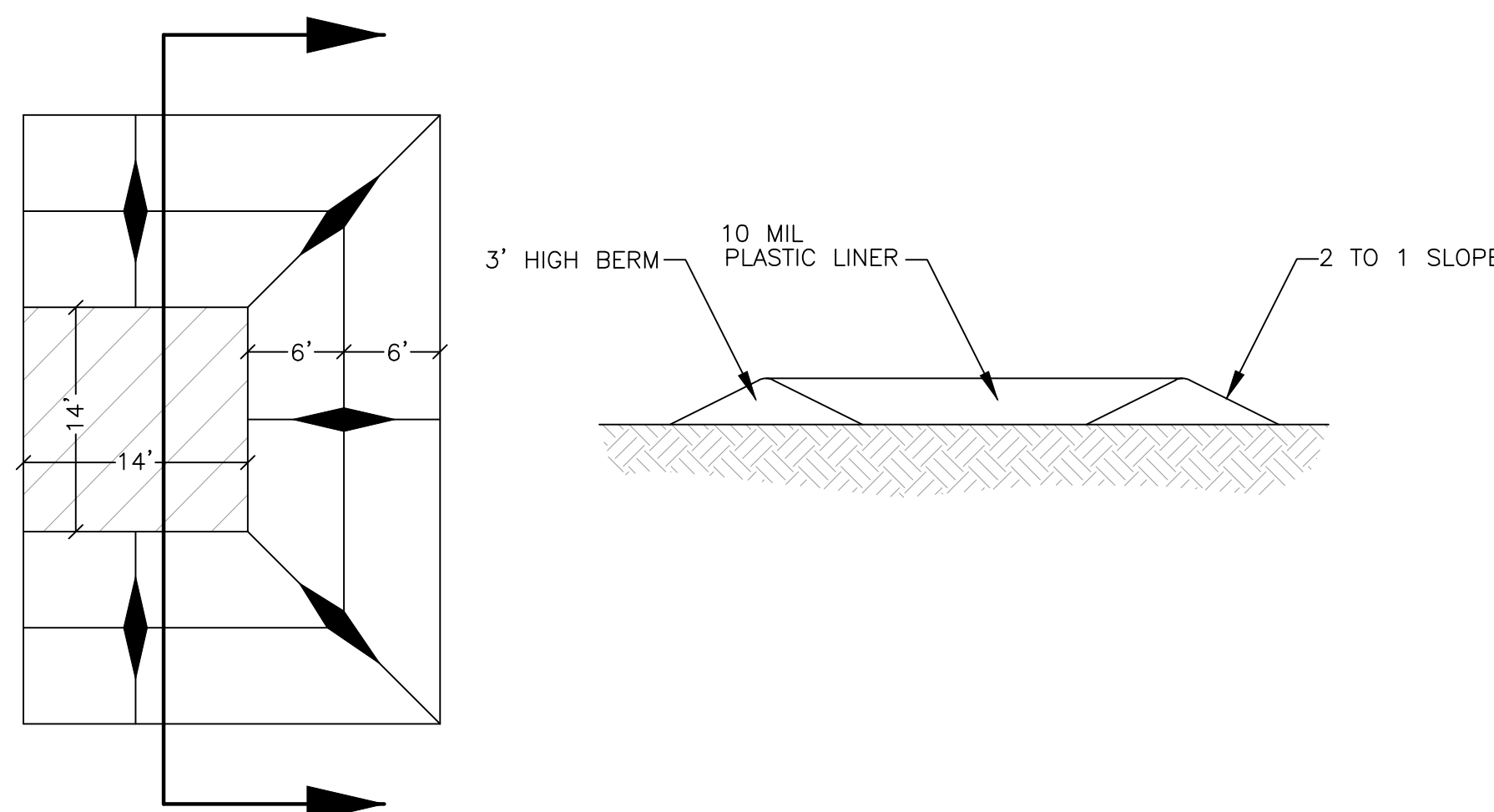


Figure 1:
Top View of
Roll-to-Roll Connection

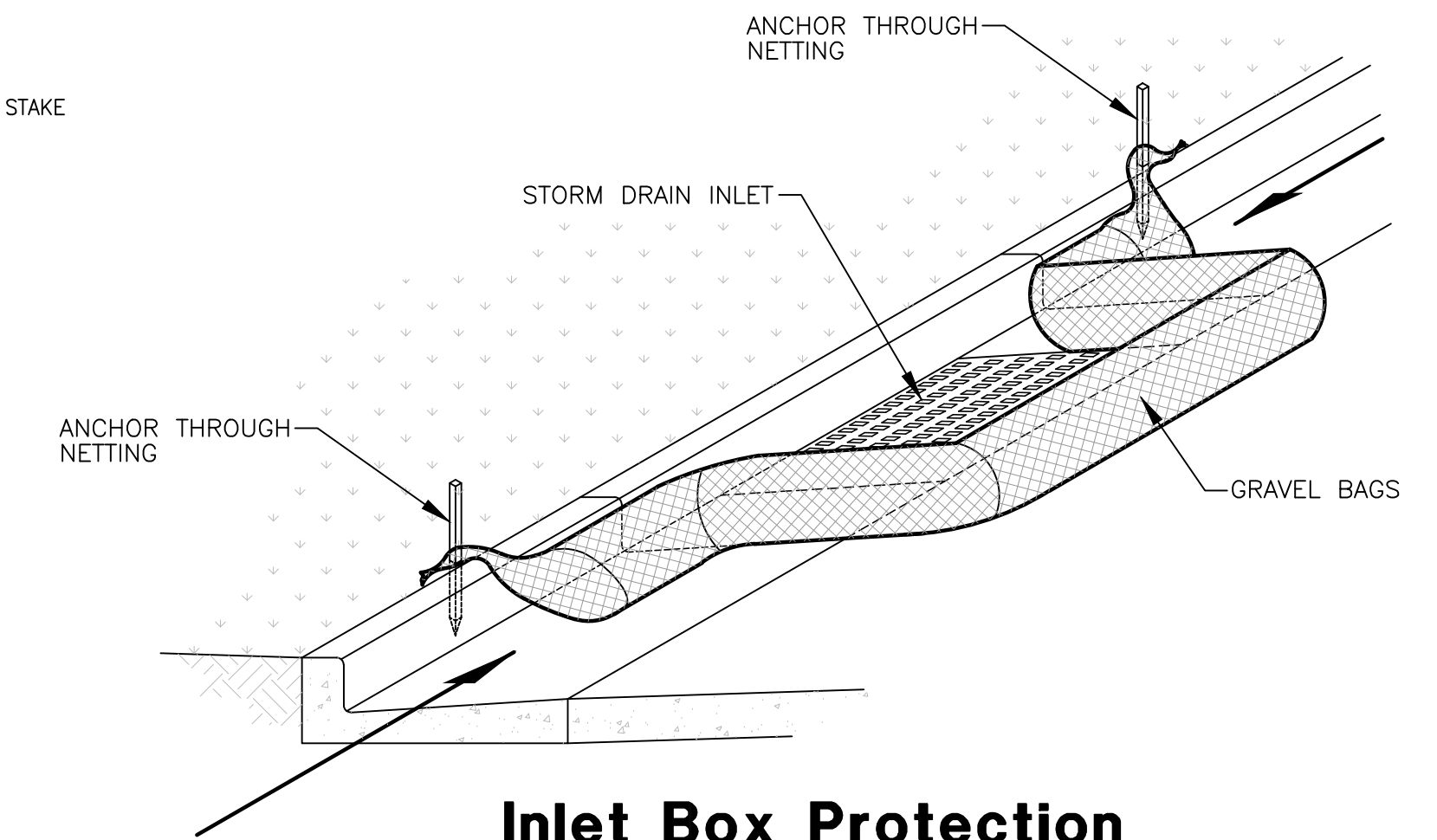
Silt Fence Detail

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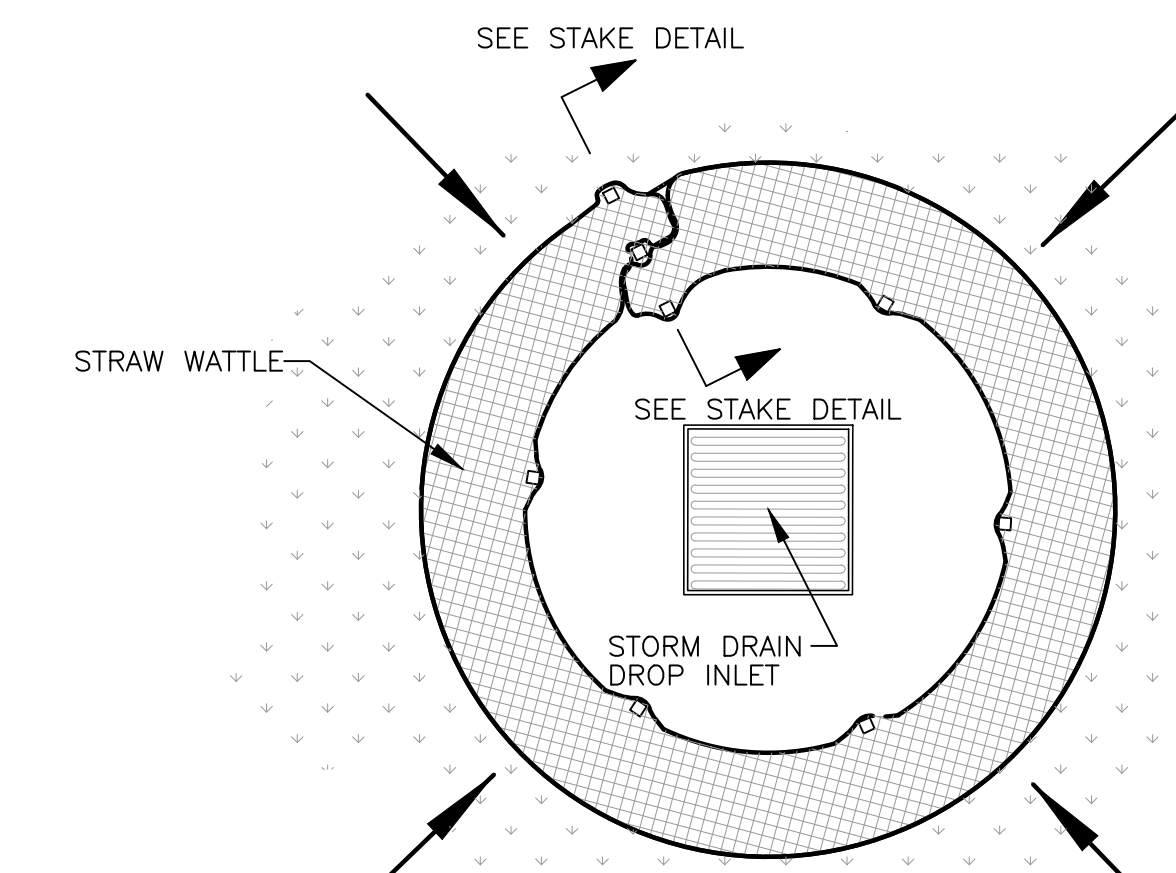


**Concrete Washout Area
w/ 10 mil Plastic Liner**

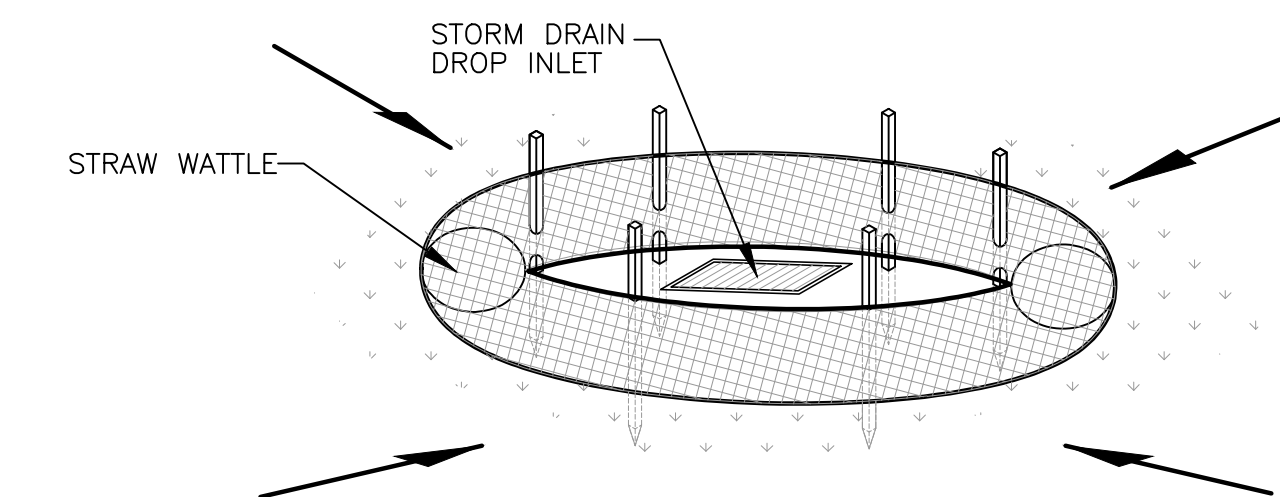
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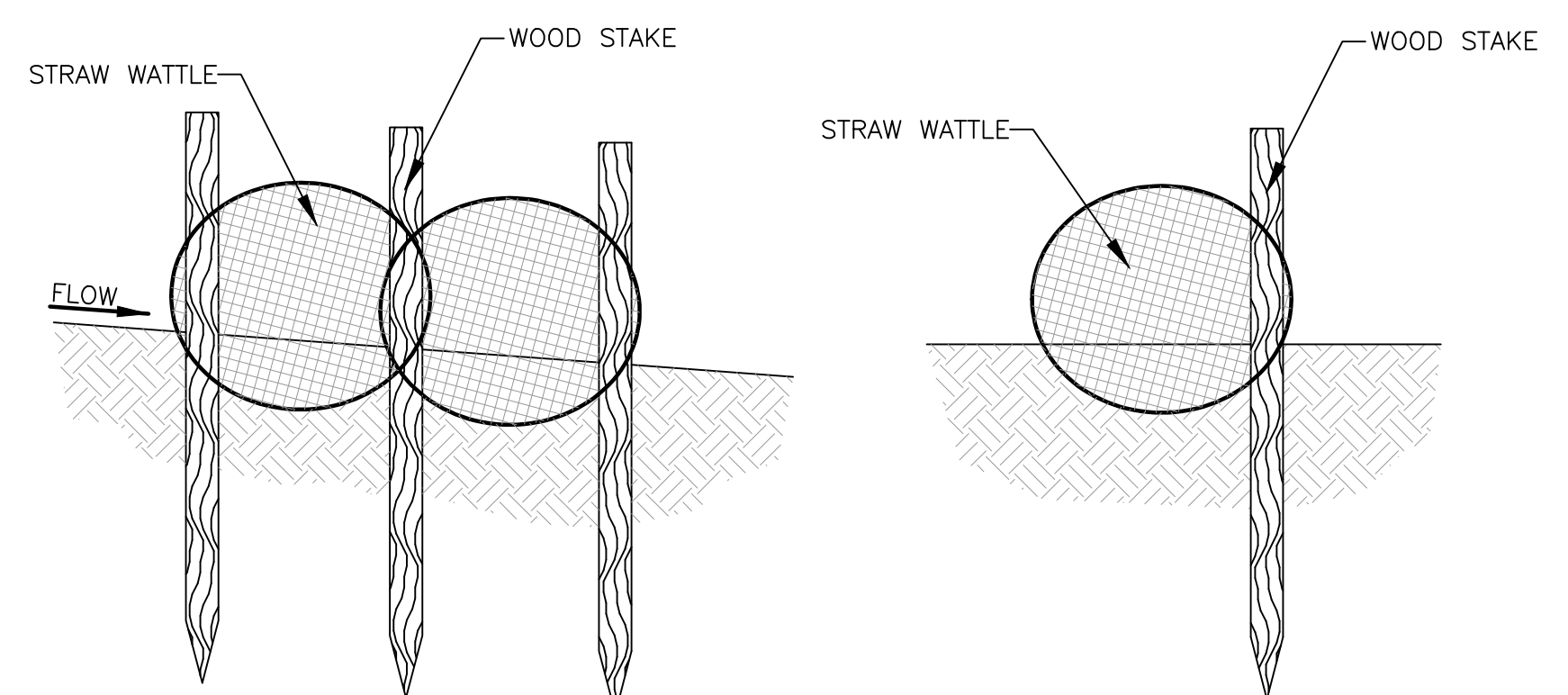
Inlet Box Protection



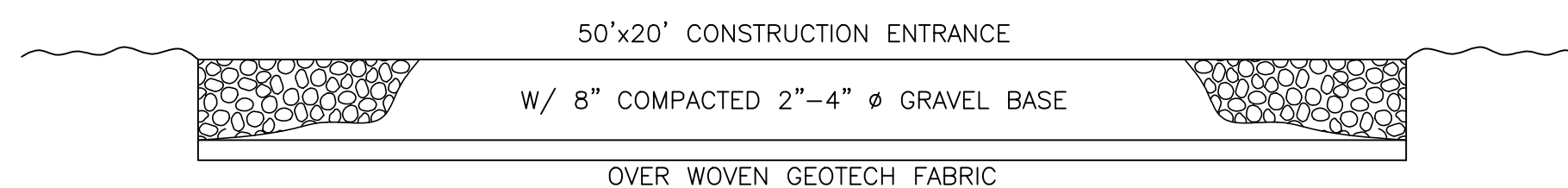
Plan View



Drop Inlet Protection



Stake Detail



Cross Section 50' x 20' Construction Entrance

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**Edgewater Beach Resort
Phase-2**
WEBER COUNTY, UTAH
**Storm Water Pollution
Prevention Plan Details**

REGISTERED PROFESSIONAL ENGINEER
375328
J. NATE REEVE
STATE OF UTAH

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Sheet **13**
11 Sheets

Reeve & Associates, Inc. - Solutions You Can Build On



TREES

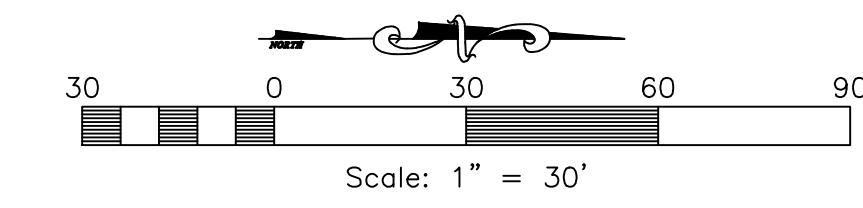
Quantity	Symbol	Scientific Name	Common Name	Planting Size
16	(Symbol)	Acer ginnala 'Flame'	Flame Amur Maple	1 1/2" cal.
4	(Symbol)	Amelanchier x grandiflora	Autumn Brilliance Serviceberry	1" cal.
53	(Symbol)	Populus tremuloides	Quaking Aspen	2" cal.
5	(Symbol)	Abies concolor	White Fir	5'-8' B&B
6	(Symbol)	Picea pungens 'Fat Albert'	Fat Albert Spruce	5'-8' B&B
18	(Symbol)	Prunus virginiana	Choke Cherry	1" cal.
13	(Symbol)	Malus 'Spring Snow'	Spring Snow Crabapple	2" cal.
3	(Symbol)	Pinus nigra	Austrian Pine	5'-8' B&B
7	(Symbol)	Picea pungens	Colorado Blue Spruce	5'-8' B&B
3	(Symbol)	Abies lasiocarpa	Subalpine Fir	5'-8' B&B
3	(Symbol)	Tilia cordata	Little Leaf Linden	2" cal.

- Biograss Sod, or equal
- Native Grass Mix - Contact Granite Seed Company, 801-768-4422.
- Prairie Wildflower Seed Mix - Contact Granite Seed Company, 801-768-4422.

NOTE: Vary heights of evergreen trees for a natural look.
 NOTE: All beds shall have a 3" layer of Shredded Bark Mulch. Replenish annually to maintain mulch depth.
 NOTE: Irrigation shall be designed by owner's licensed landscape contractor.

SHRUB PALLETTE

Scientific Name	Common Name	Planting Size
Caryopteris clandonensis	Blue Mist Spirea	1-5 gal.
Chrysothamnus nauseosus	Rabbit Brush	1-5 gal.
Cornus sericea	Redtwig Dogwood	1-5 gal.
Cargana arborescens	Siberian Pea Shrub	1-5 gal.
Forsythia x intermedia 'Spring Glory'	Spring Glory Forsythia	1-5 gal.
Mahonia aquifolium 'Compactum'	Compact Oregon grapeholly	1-5 gal.
Perovskia atriplicifolia	Russian Sage	1-5 gal.
Philadelphus spp.	Mock Orange	1-5 gal.
Physocarpus opulus	Ninebark	1-5 gal.
Pinus mugo 'Pumilio'	Dwarf Mugo Pine	1-5 gal.
Potentilla fruticosa	Shrubby Cinquefoil	1-5 gal.
Rhus trilobata	Sumac	1-5 gal.
Ribes alpinum	Alpine Currant	1-5 gal.
Rosa woodsii	Wood's Rose	1-5 gal.
Spiraea spp.	Spirea	1-5 gal.
Symphoricarpos	Mountain Snowberry	1-5 gal.
Syringa spp.	Common Lilac	1-5 gal.
Viburnum opulus nanum	Dwarf European Cranberry	1-5 gal.



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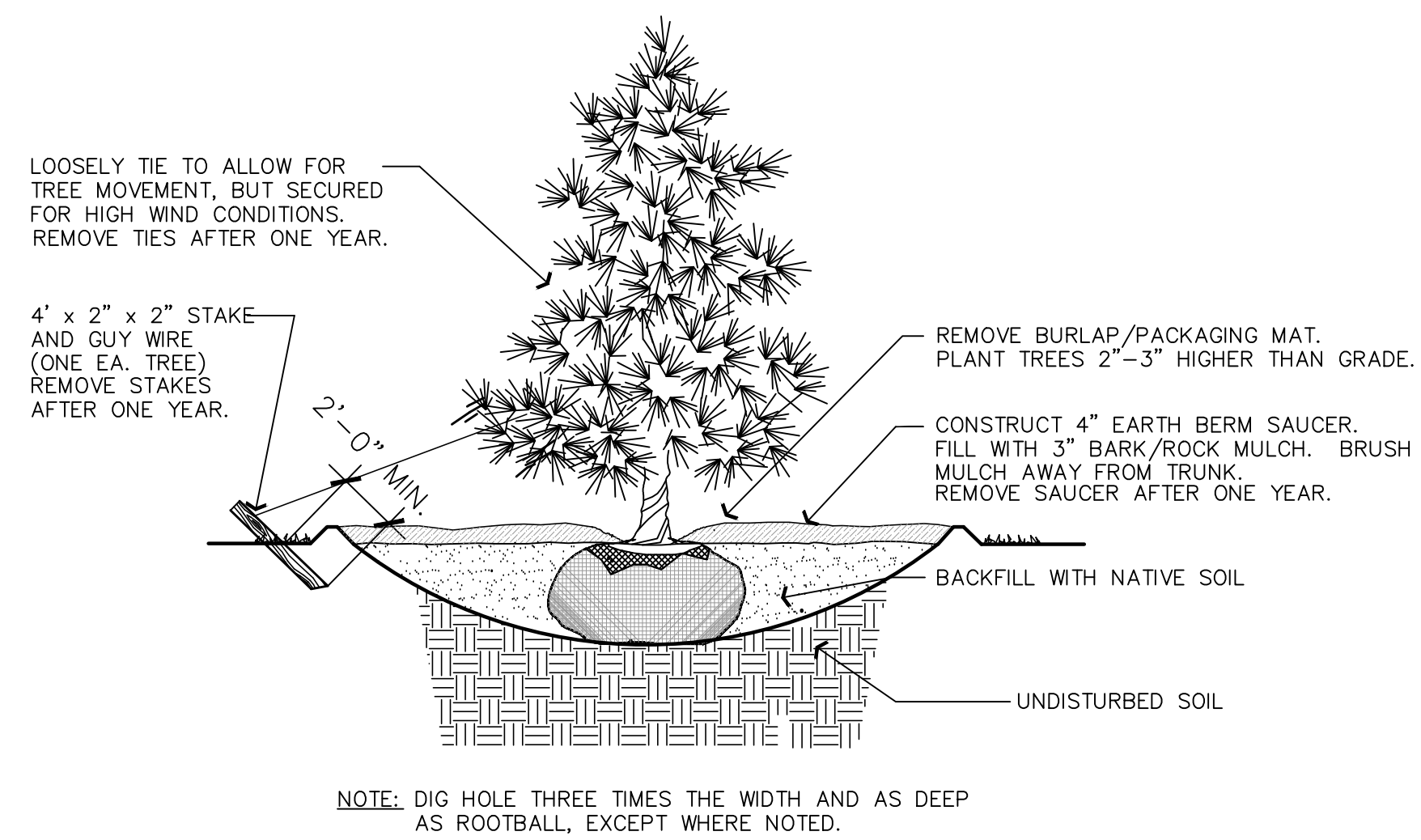
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Edgewater Beach Resort
Phase-2
 WEBER COUNTY, UTAH

Landscape Plan

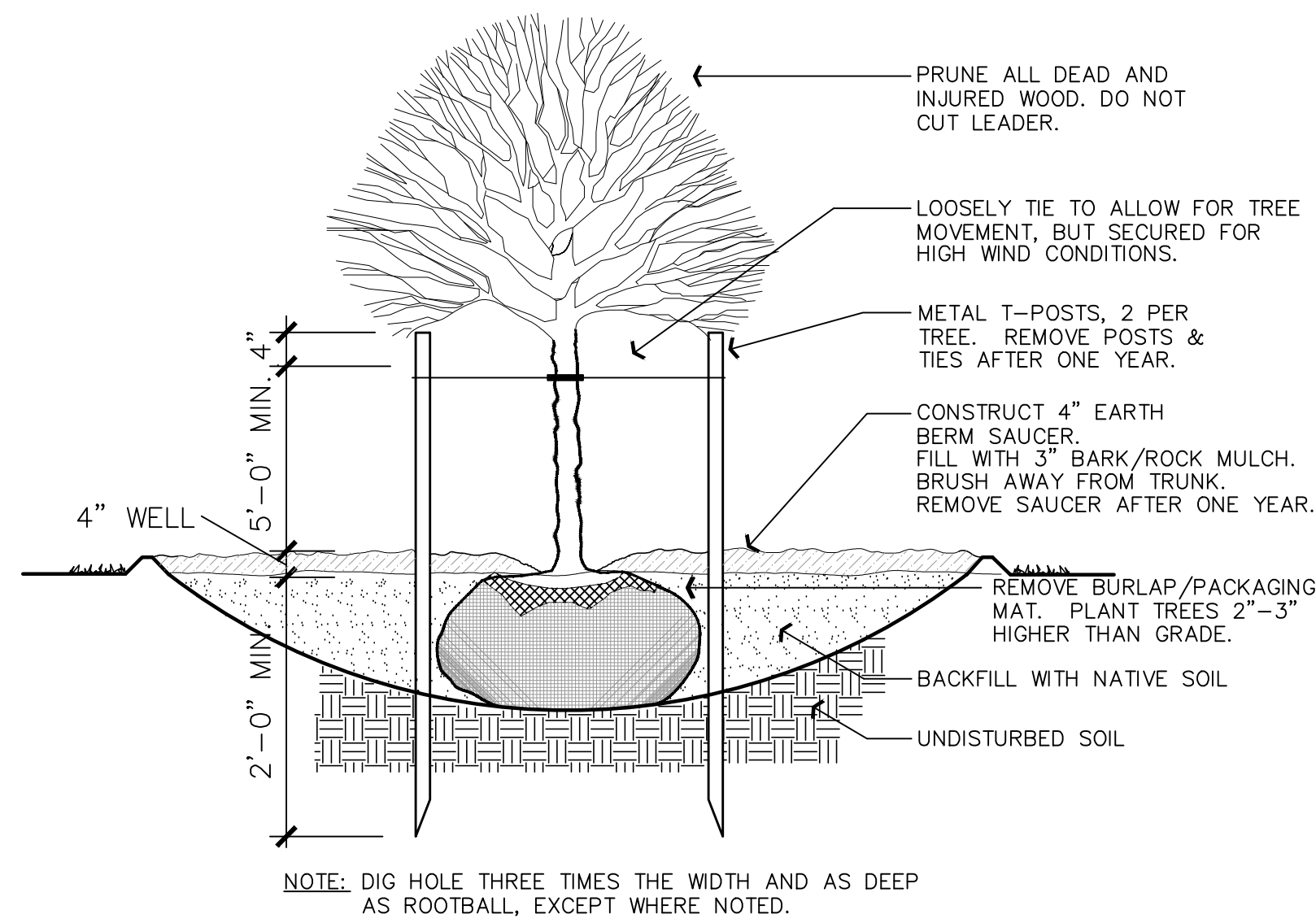
Revised: 5-18-15

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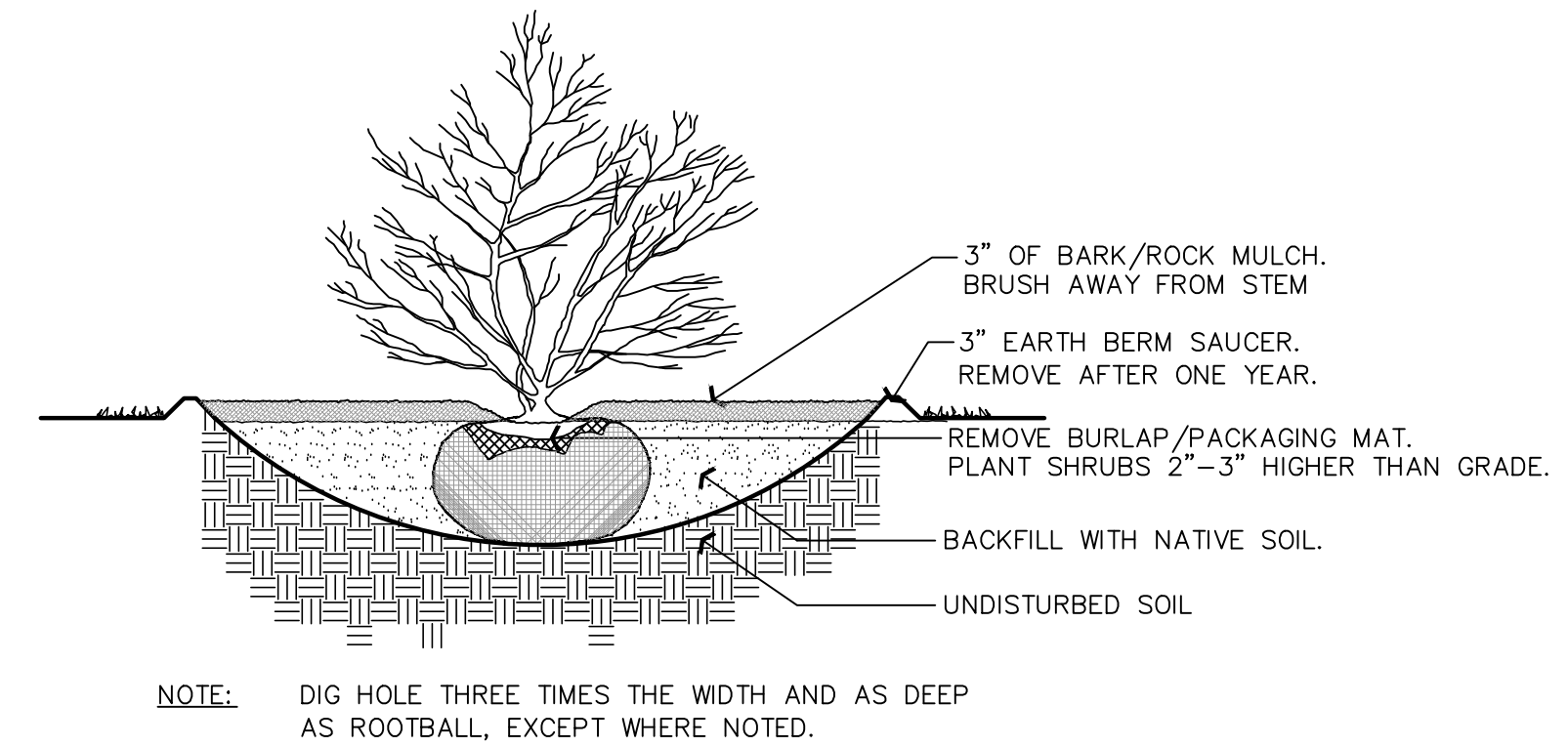
CONIFEROUS TREE PLANTING

SCALE: NOT TO SCALE



DECIDUOUS TREE PLANTING

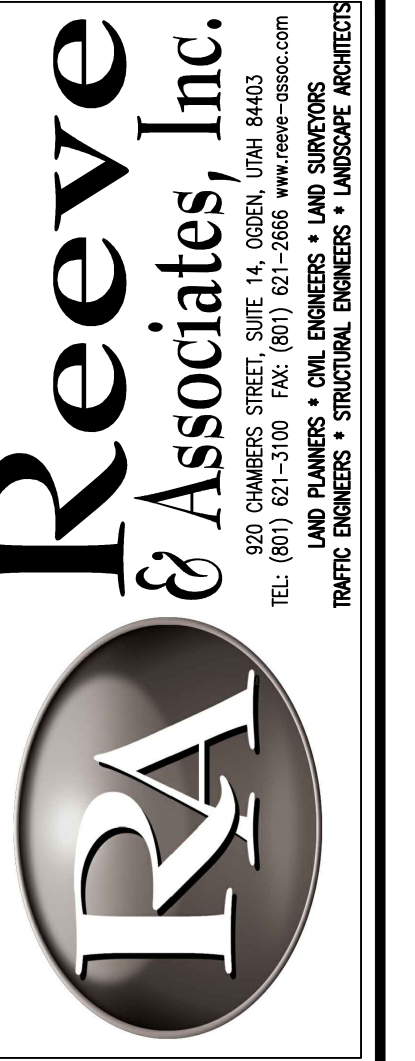
SCALE: NOT TO SCALE



NOTE: DIG HOLE THREE TIMES THE WIDTH AND AS DEEP AS ROOTBALL, EXCEPT WHERE NOTED.

SHRUB PLANTING

SCALE: NOT TO SCALE

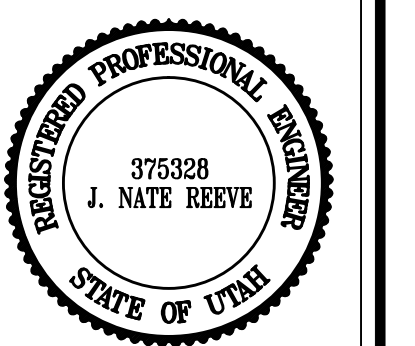


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Edgewater Beach Resort Phase-2
WEBER COUNTY, UTAH

Landscape Detail Sheet

Revised: 5-18-15



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