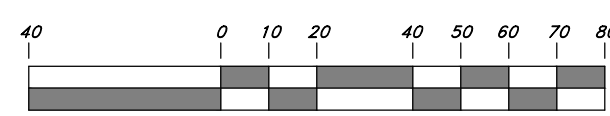
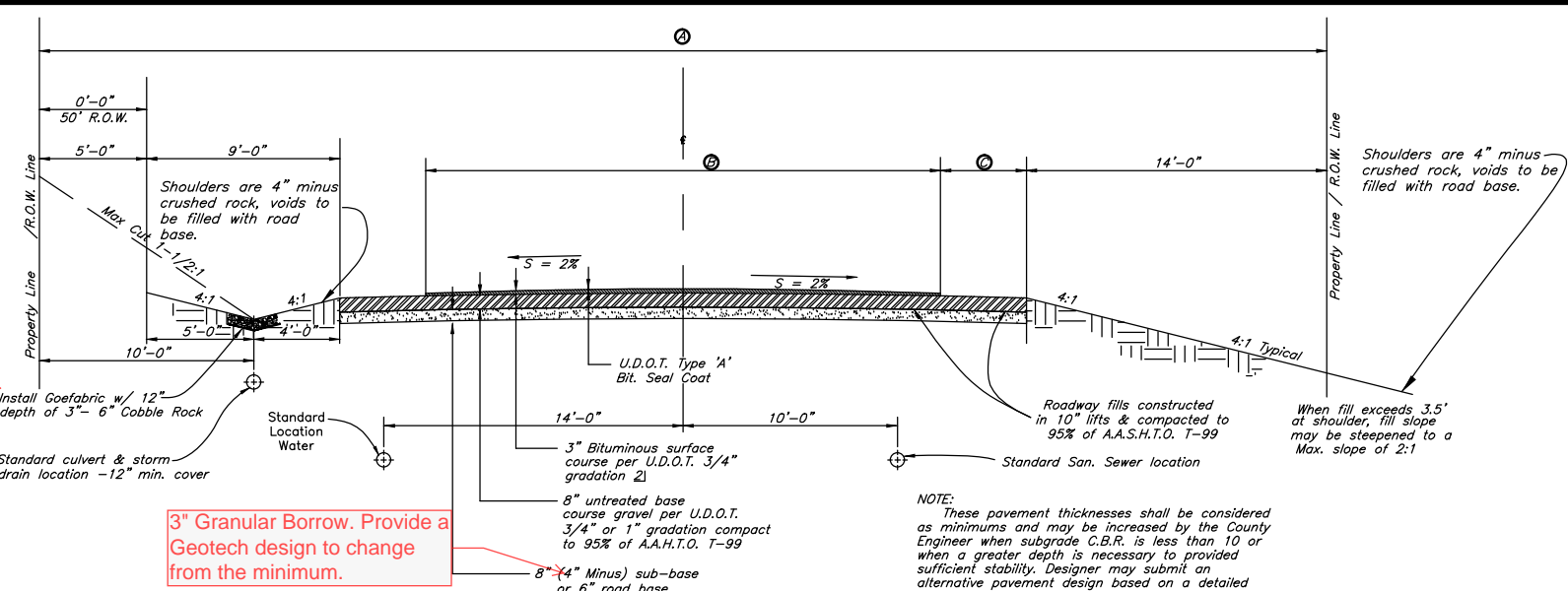


Scale: 1" = 40'



Graphic Scale

Benchmark:
Top of Nail approximately 43 feet
northeast of the Southeast Corner of
Lot 41, Phase 11, Summit at Ski Lake
Subdivision in Weber County, Utah.
Elev: 5213.16



STREET DESIGN	R.O.W. Width	Surface Course Width	Shoulder Width
1) Minor and/or Private	50'	24'	4'
Standard Residential	60'	24'	4'
Collector	66'	28'	5'
2) Minor Arterial	80'	44' (30') ±	4' ±
3) Major Arterial	100'	(Consult County Engineer for Specific Requirements)	

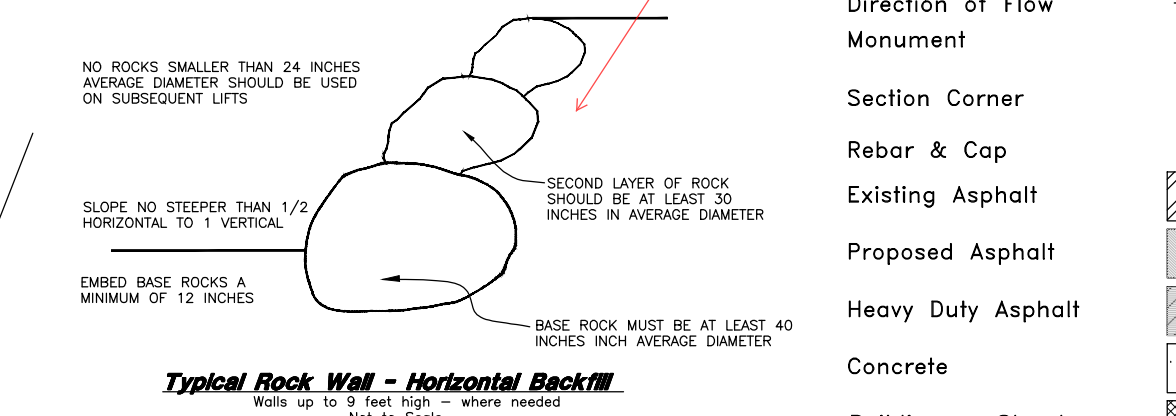
Standard Rural Roadway Section

Erosion Control Notes :

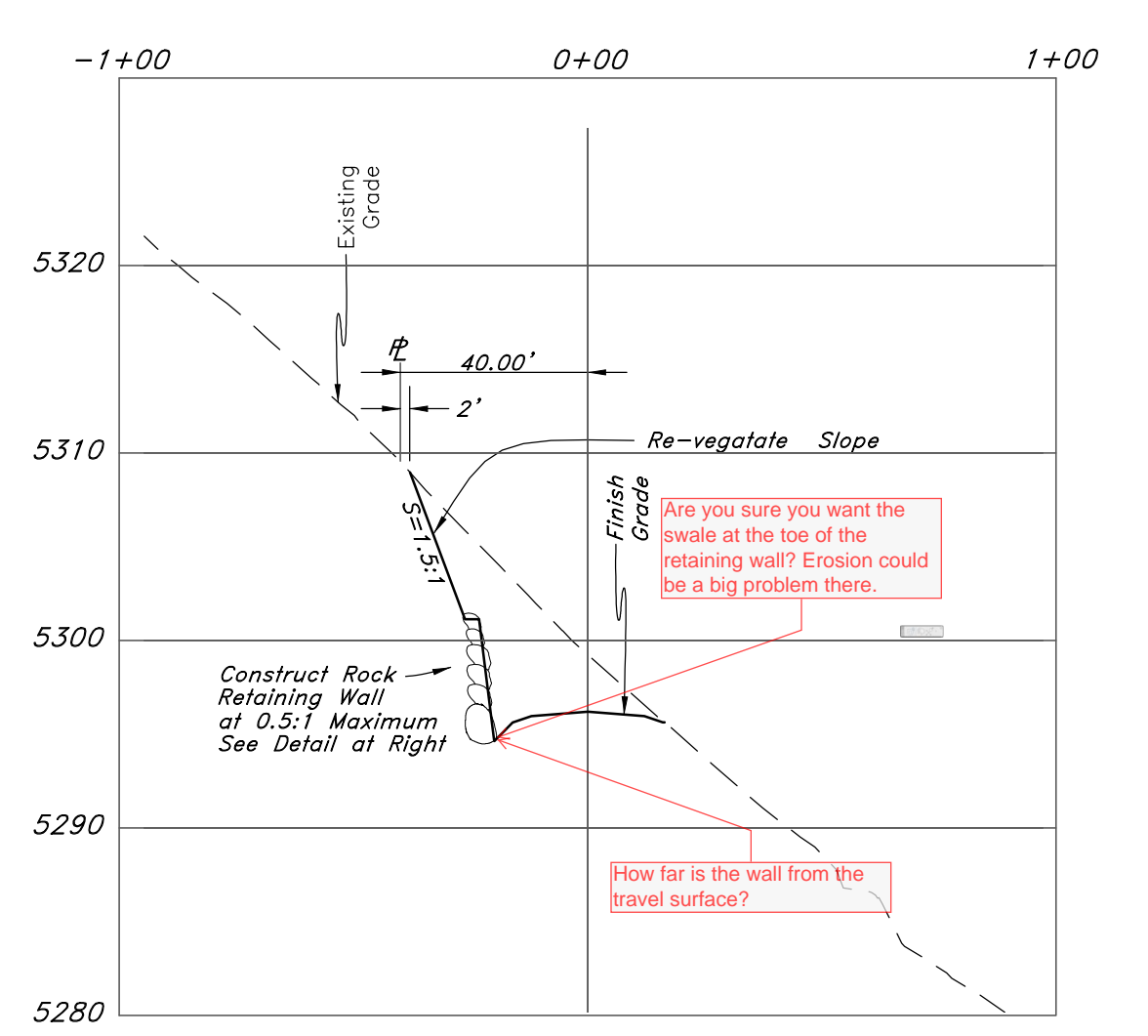
- Sandbags will be placed at discharge locations to contain and divert storm water through straw bales.
- An earthen berm 6" high will be constructed to contain the storm water and divert it to discharge areas.
- Storm water will be discharged into an existing drainage system. Existing Lines shall be inspected prior to Certificate of Occupancy and cleaned if necessary.
- The Storm Water Prevention Plan shall conform to all State Division of Environmental Protection Regulations.

Legend
(Note: All items may not appear on drawing)

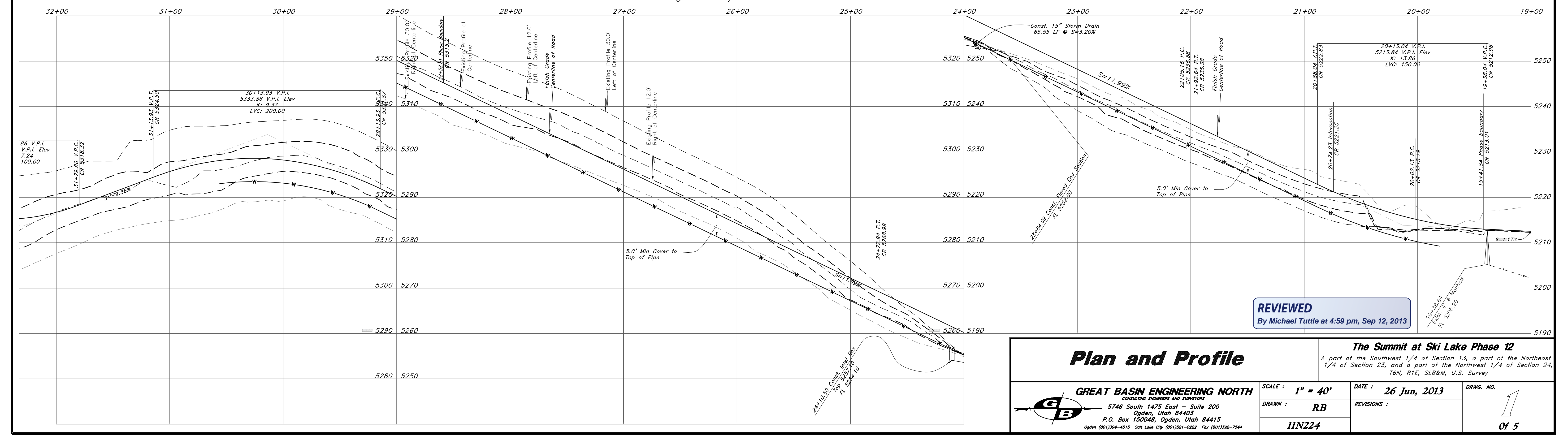
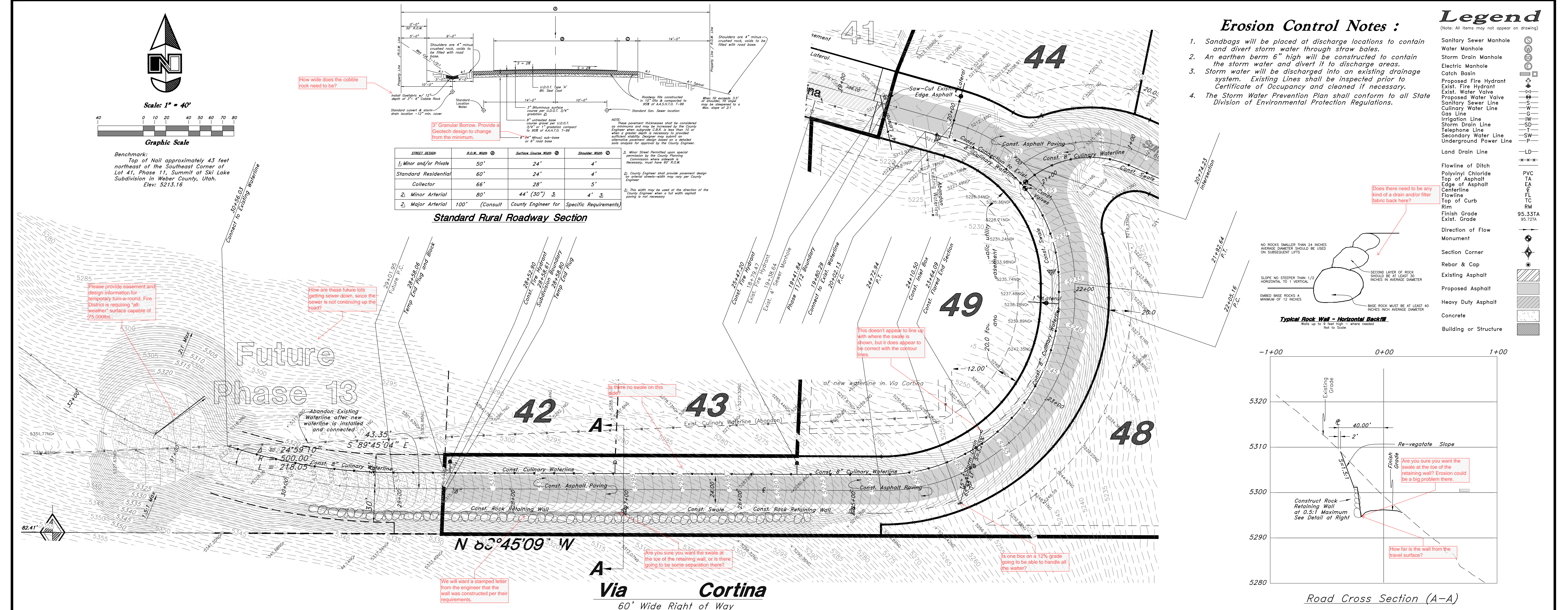
- Sanitary Sewer Manhole
- Water Manhole
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- Electric Manhole
- Catch Basin
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- Exist. Fire Hydrant
- Proposed Water Valve
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- Telephone Line
- Secondary Water Line
- Underground Power Line
- Land Drain Line
- Flowline of Ditch
- PVC
- TA
- EA
- FL
- TC
- RM
- Finish Grade
- Exist. Grade
- Direction of Flow
- Monument
- Section Corner
- Rebar & Cap
- Existing Asphalt
- Proposed Asphalt
- Heavy Duty Asphalt
- Concrete
- Building or Structure



Typical Rock Wall - Horizontal Backfill



Road Cross Section (A-A)



REVIEWED
By Michael Tuttle at 4:59 pm, Sep 12, 2013

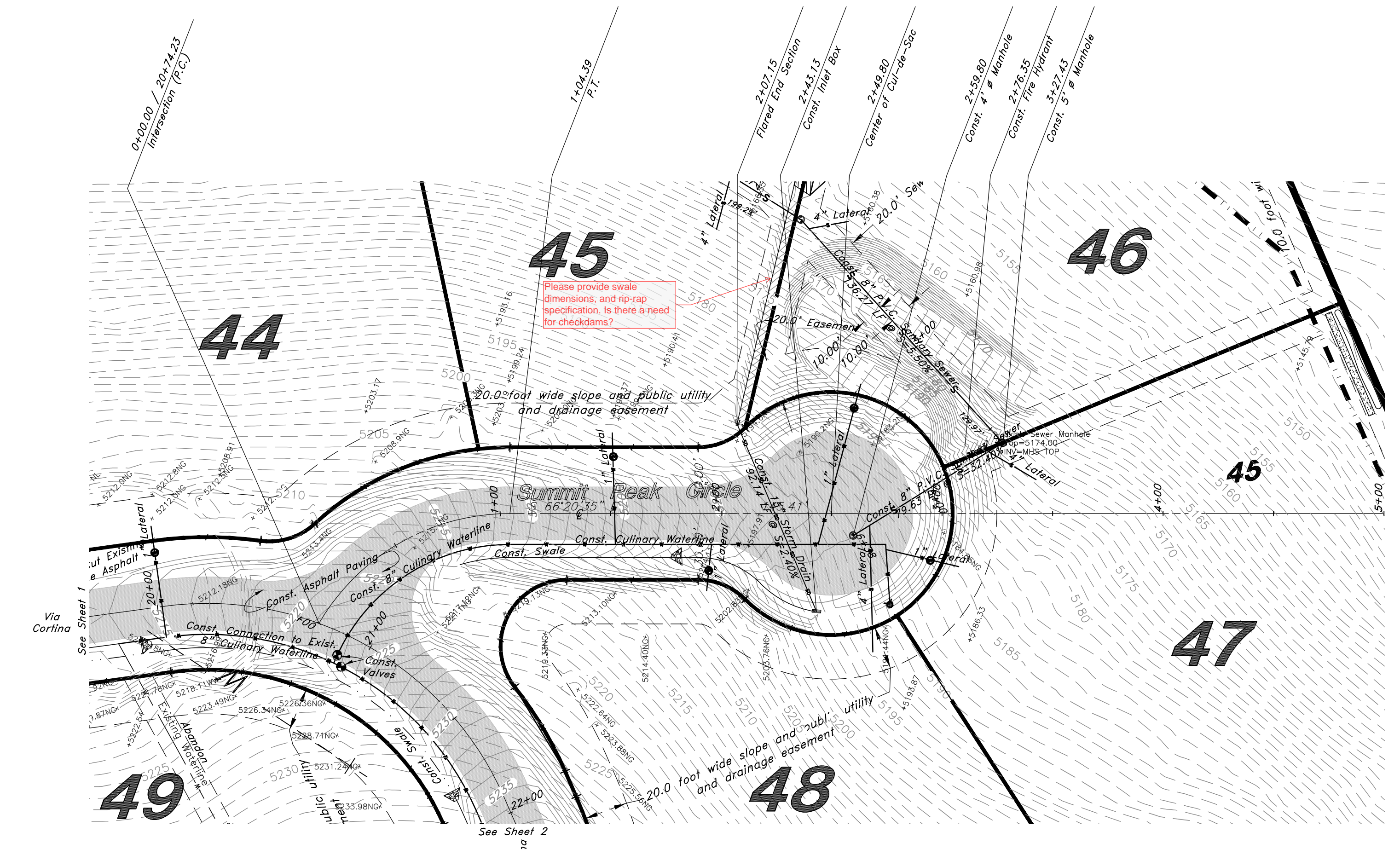
Plan and Profile

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CONSULTING ENGINEERS AND SURVEYORS
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Ogden, Utah 84403
P.O. Box 150048, Ogden, Utah 84415
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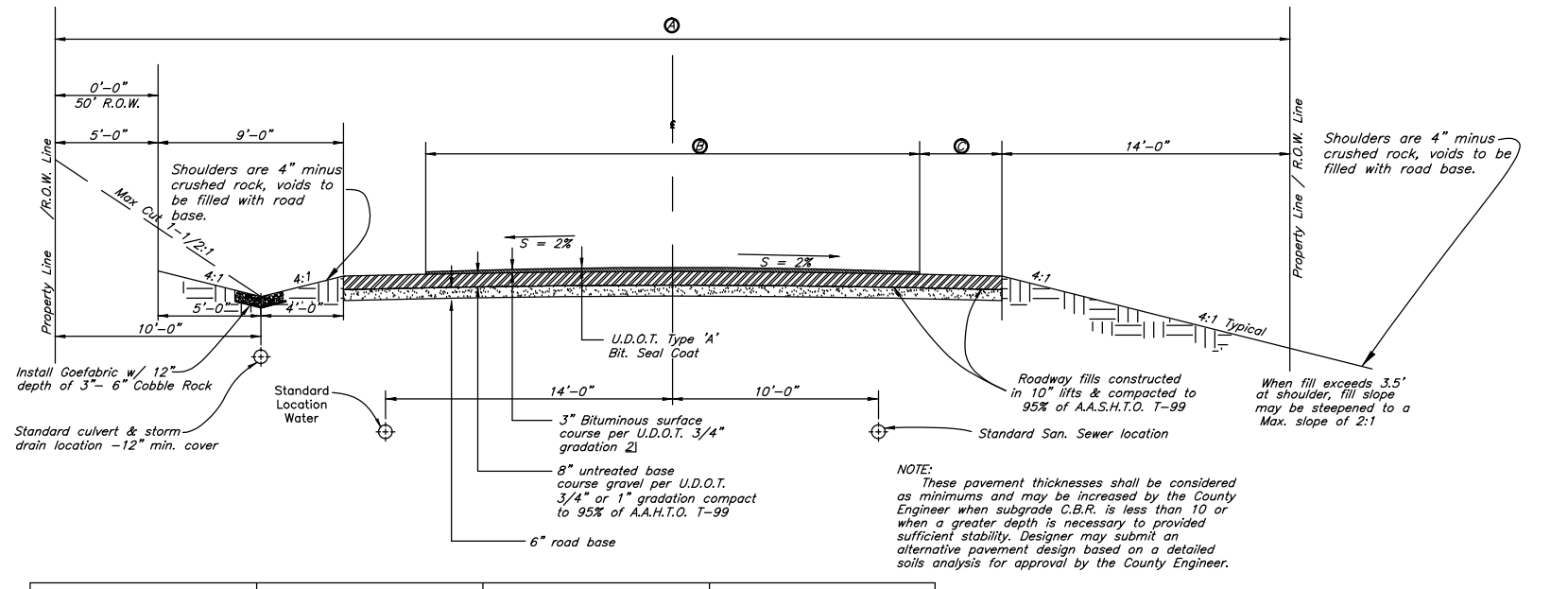
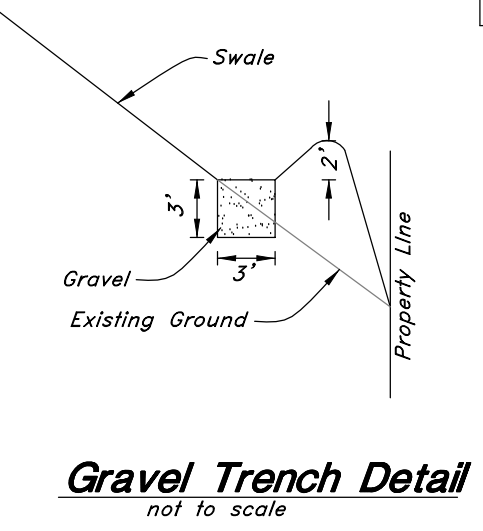
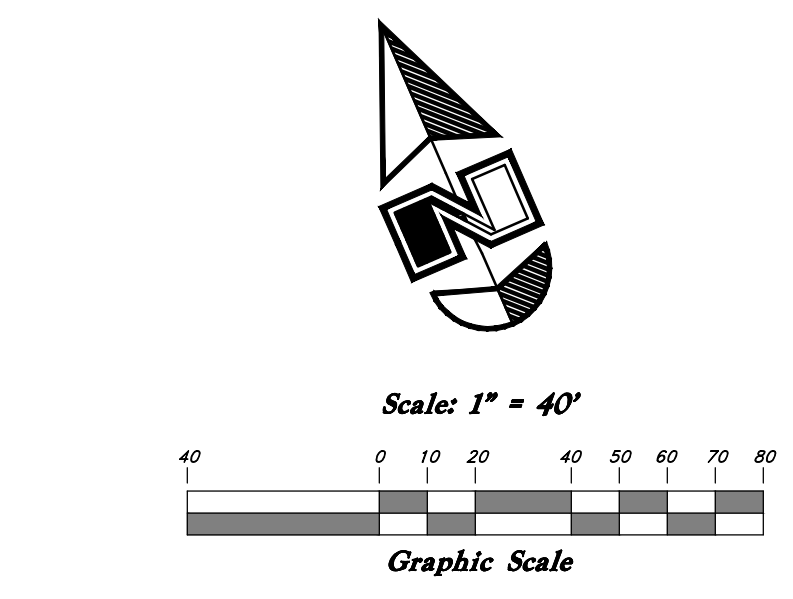
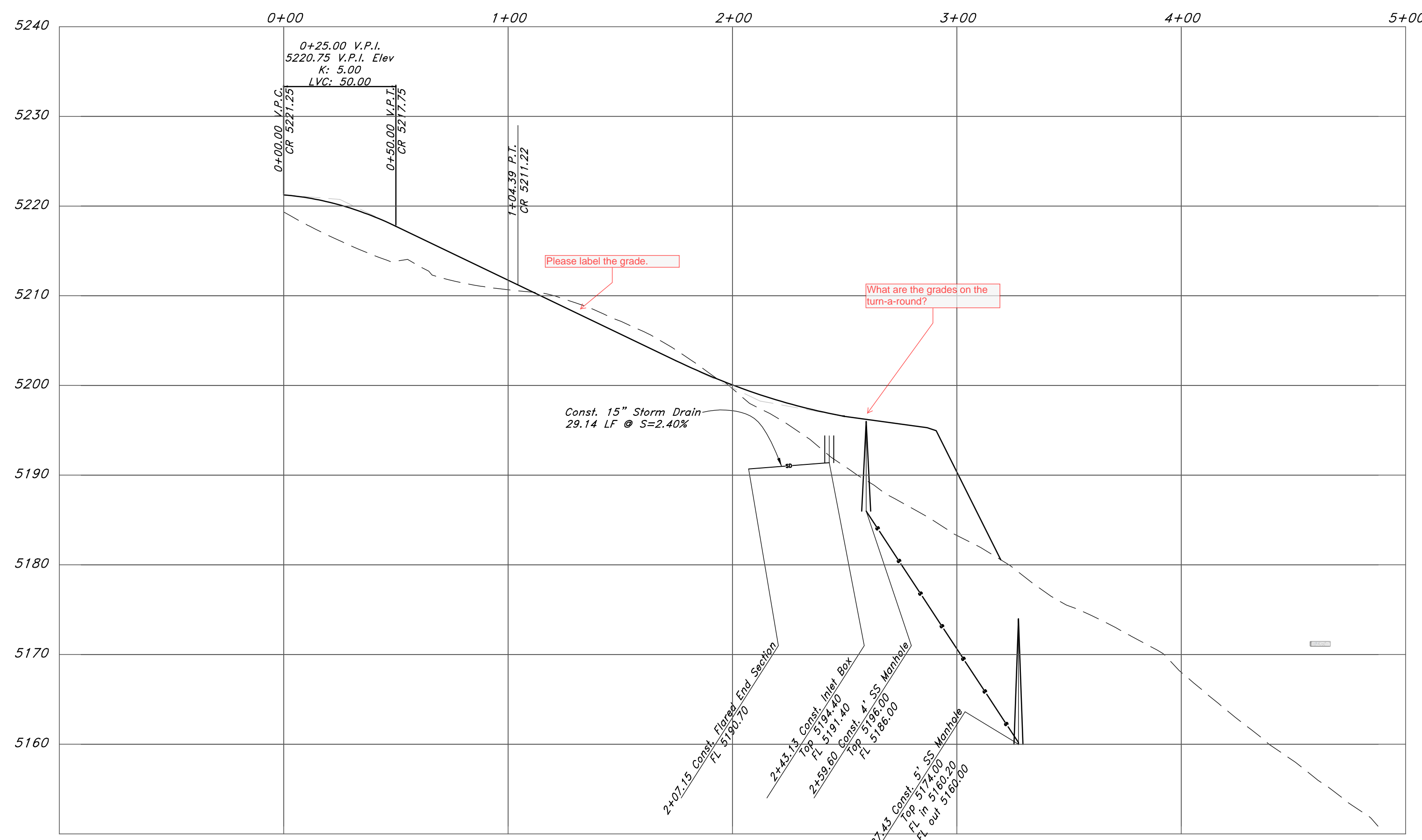
SCALE: 1" = 40'
DATE: 26 Jun, 2013
DRAWN: RB
REVISIONS:
11N224

DRWG. NO.
Of 5

The Summit at Ski Lake Phase 12
A part of the Southwest 1/4 of Section 13, a part of the Northeast 1/4 of Section 23, and a part of the Northwest 1/4 of Section 24, T8N, R1E, SLB&M, U.S. Survey.



Summit Peak Circle
60' Wide Right of Way



STREET DESIGN	R.O.W. WIDTH	SURFACE COURSE WIDTH	SHOULDER WIDTH
1) Minor and/or Private	50'	24'	4'
Standard Residential	60'	24'	4'
Collector	66'	28'	5'
2) Minor Arterial	80'	44' (30')	4' 3/4
3) Major Arterial	100' (Consult County Engineer for Specific Requirements)		

Standard Rural Roadway Section

Erosion Control Notes :

1. Sandbags will be placed at discharge locations to contain and divert storm water through straw bales.
2. An earthen berm 6" high will be constructed to contain the storm water and divert it to discharge areas.
3. Storm water will be discharged into an existing drainage system. Existing lines shall be inspected prior to Certificate of Occupancy and cleaned if necessary.
4. The Storm Water Prevention Plan shall conform to all State Division of Environmental Protection Regulations.

General Grading Notes:

1. All work shall be in accordance with the County Public Works Standard.
2. Cut slopes shall be no steeper than 2 horizontal to 1 vertical.
3. Fill slopes shall be no steeper than 2 horizontal to 1 vertical.
4. Fills shall be compacted per the recommendations of the geotechnical report prepared for the project and shall be certified by the geotechnical engineer.
5. Areas to receive fill shall be properly prepared and approved by the City Inspector and geotechnical Engineer prior to placing fill.
6. Fills shall be benched into competent material as per specifications and geotechnical report.
7. All trench backfill shall be tested and certified by the site geotechnical engineer per the grading code.
8. A geotechnical engineer shall perform periodic inspections and submit a complete report and map upon completion of the rough grading.
9. The final compaction report and certification from the geotechnical engineer shall contain the type of field testing performed. Each test shall be identified with the method of obtaining the in-place density, whether sand cone or drive ring and shall be so noted for each test. Sufficient maximum density determinations shall be performed to verify the accuracy of the maximum density curves used by the field technician.
10. Dust shall be controlled by watering.
11. The location and protection of all utilities is the responsibility of the permittee.
12. Approved protective measures and temporary drainage provisions must be used to protect adjoining properties during the grading project.
13. All public roadways must be cleared daily of all dirt, mud and debris deposited on them as a result of the grading operation. Clearing is to be done to the satisfaction of the city engineer.
14. The site shall be cleared and grubbed of all vegetation and deleterious matter prior to grading.
15. The contractor shall provide shoring in accordance with OSHA requirements for trench walls.
16. Aggregate base shall be compacted per the geotechnical report prepared for the project.
17. Elevations shown on this plan are finish grades. Rough grades are the subgrades of the improvements shown hereon.
18. As part of the construction documents, owner has provided contractor with a topographic survey performed by manual or aerial means. Such survey was prepared for project design purposes and is provided to the contractor as a courtesy. It is expressly understood that such survey may not accurately reflect existing topographic conditions.
19. Erosion Control: Protect all inlet boxes, catch basins, etc. with straw bales or other approved method to strain the storm water during construction. Protect surrounding properties and streets from site runoff with sandbags and earth berms.

Legend

- (Note: All items may not appear on drawing)
- Sanitary Sewer Manhole
 - Water Manhole
 - Storm Drain Manhole
 - Electric Manhole
 - Catch Basin
 - Proposed Fire Hydrant
 - Exist. Fire Hydrant
 - Proposed Water Valve
 - Sanitary Sewer Line
 - Culinary Water Line
 - Gas Line
 - Irrigation Line
 - Storm Drain Line
 - Telephone Line
 - Secondary Water Line
 - Underground Power Line
 - Land Drain Line
 - Fence
 - Flowline of Ditch
 - Polyvinyl Chloride
 - Top of Asphalt
 - Edge of Asphalt
 - Centerline
 - Flowline
 - Top of Curb
 - Rim
 - Finish Grade
 - Exist. Grade
 - Direction of Flow
 - Manument
 - Section Corner
 - Rebar & Cap
 - Existing Asphalt
 - Proposed Asphalt
 - Heavy Duty Asphalt
 - Concrete
 - Building or Structure

General Utility Notes:

1. Coordinate all utility connections to building with plumbing plans and building contractor.
2. Verify depth and location of all existing utilities prior to constructing any new utility lines. Notify Civil Engineer of any discrepancies or conflicts prior to any connections being made.
3. All catch basin and inlet box grates are to be bicycle proof.
4. All inlet boxes located in curb and gutter are to be placed parallel to the curb and gutter and set under the frame and grate. Improperly placed boxes will be removed and replaced at no additional cost to the owner. Precast or cast in place boxes are acceptable.
5. Refer to the site electrical plan for details and locations of electrical lines, transformers and light poles.
6. Gas lines, telephone lines, and cable TV lines are not a part of these plans unless otherwise noted.
7. Water meters are to be installed per city standards and specifications. It will be the contractor's responsibility to install all items required.
8. Water lines, valves, fire hydrants, fittings etc. are to be constructed as shown. Contractor is responsible to construct any vertical adjustments necessary to clear sewer, storm drain or other utilities as necessary including valve boxes and hydrant spools to proper grade.
9. Field verify all existing and/or proposed Roof Drain/Roof Drain down spout connections to Storm Water System with Civil, Plumbing & Architectural plans. Notify Engineer of any discrepancies.

Utility Piping Materials:

All piping to be installed per manufacturers recommendations. Refer to project specifications for more detailed information regarding materials, installation, etc.

Culinary Service Laterals

1. 3/4" to 2" diameter pipe - copper tube ASTM B, Type K, Soft Temper
2. Over 2" diameter pipe - AWWA C-900 Class 150 pipe

Water Main Lines and Fire Lines

1. Pipe material as shown on utility plan view or to meet city standards.

Sanitary Sewer Lines

1. All sewer piping to be Polyvinyl Chloride (PVC) sewer pipe, ASTM D 3034, Type PSM, SDR 35

Storm Drain Lines

1. 10" pipes or smaller - Polyvinyl Chloride (PVC) sewer pipe, ASTM D3034, Type PSM, SDR 35
2. 12" to 21" pipes - Concrete Pipe, ASTM C14, Class III up to 13' of cover. For greater than 13' feet of cover, use reinforced concrete pipe and classes listed below.
3. 24" pipes or larger - Reinforced Concrete Pipe, ASTM C76, Class III up to 13' of cover, Class V for 13' to 21' of cover, Class V for 21' to 32' of cover, and Special Design for cover greater than 32 feet.

CAUTION NOTICE TO CONTRACTOR
The contractor is specifically cautioned that the location and/or elevation of existing utilities as shown on these plans are based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied on as being exact or complete. The contractor must call the appropriate utility company at least 48 hours before any excavation to request exact field location of utilities. It shall be the responsibility of the contractor to relocate all existing utilities which conflict with the propose improvements shown on the plans.

PRIVATE ENGINEER'S NOTICE TO CONTRACTORS
The Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the contractor shall defend, indemnify, and hold the owner and the engineer harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting for liability arising from the sole negligence of the owner or the engineer.


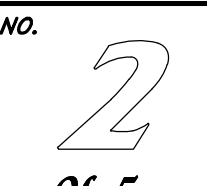
ALL CONSTRUCTION TO CONFORM TO COUNTY STANDARDS AND SPECIFICATIONS IN RIGHT OF WAY

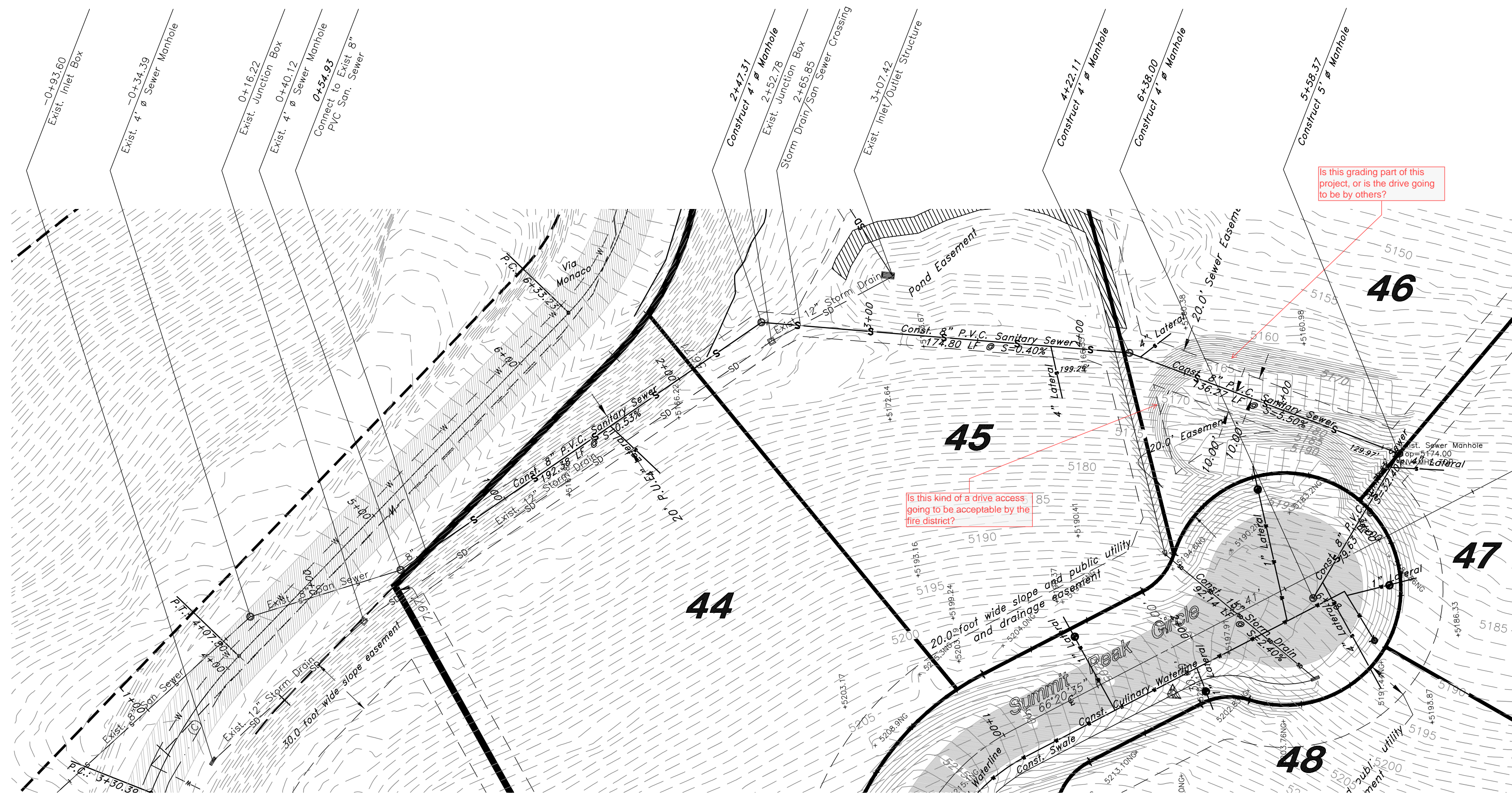
General Notes

1. All Construction is to meet Weber County Public Works Standards.
2. Top of 8" waterline is to have a minimum of at least 60" of cover over the top of pipe. Waterline is also to have metallic locator tape installed 12-24" above pipe.
3. Verify depth and location of all existing utilities prior to constructing any new utility lines. Notify Civil Engineer of any discrepancies or conflicts prior to any connection being made.
4. Re-vegetate with native grasses and weeds to control erosion.

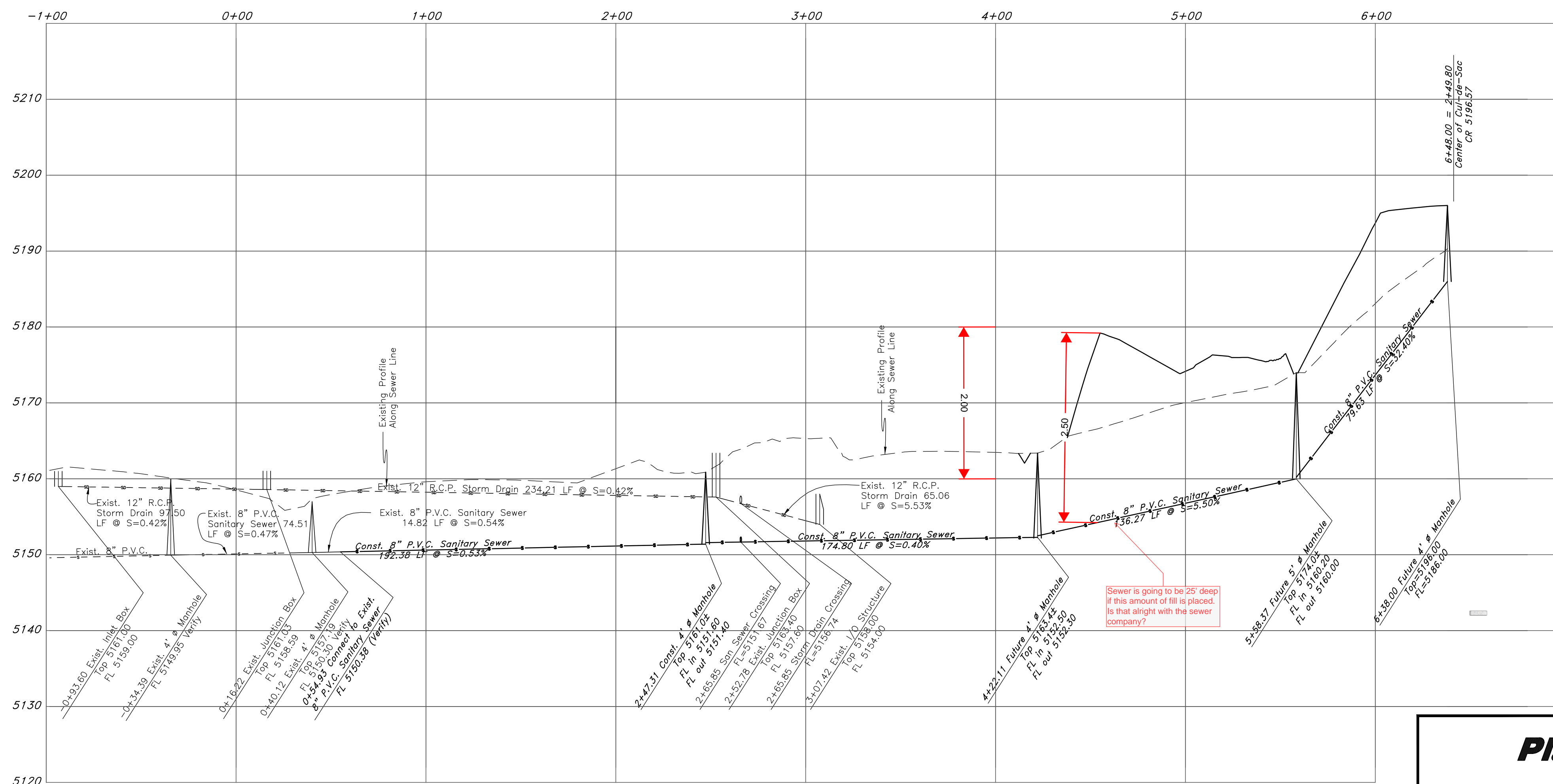
Plan and Profile

The Summit at Ski Lake Phase 12
A part of the Southwest 1/4 of Section 13, a part of the Northeast 1/4 of Section 23, and a part of the Northwest 1/4 of Section 24, T6N, R1E, SLB&M, U.S. Survey

 <p>GREAT BASIN ENGINEERING NORTH CONSULTING ENGINEERS AND SURVEYORS 5746 South 1475 East Suite 200 Ogden, Utah 84403 P.O. Box 150048, Ogden, Utah 84415 Ogden (801)394-4515 Salt Lake City (801)521-0222 Fax (801)392-7544</p>	SCALE : 1" = 40'	DATE : 26 Jun, 2013	 Of 5
	DRAWN : RB	REVISIONS :	
11N224			



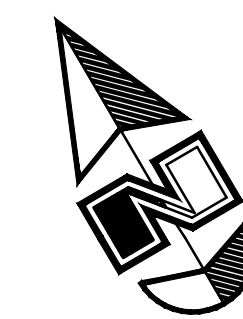
East Sanitary Sewer Outfall



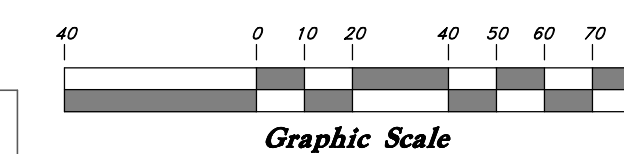
Legend

(Note: All Items may not appear on drawing)

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- Electric Manhole
- Catch Basin
- Proposed Fire Hydrant
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Scale: 1" = 40'



Plan and Profile

The Summit at Ski Lake Phase 12

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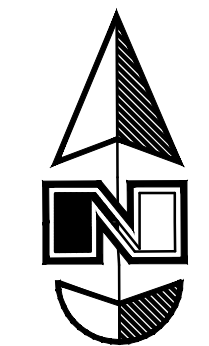
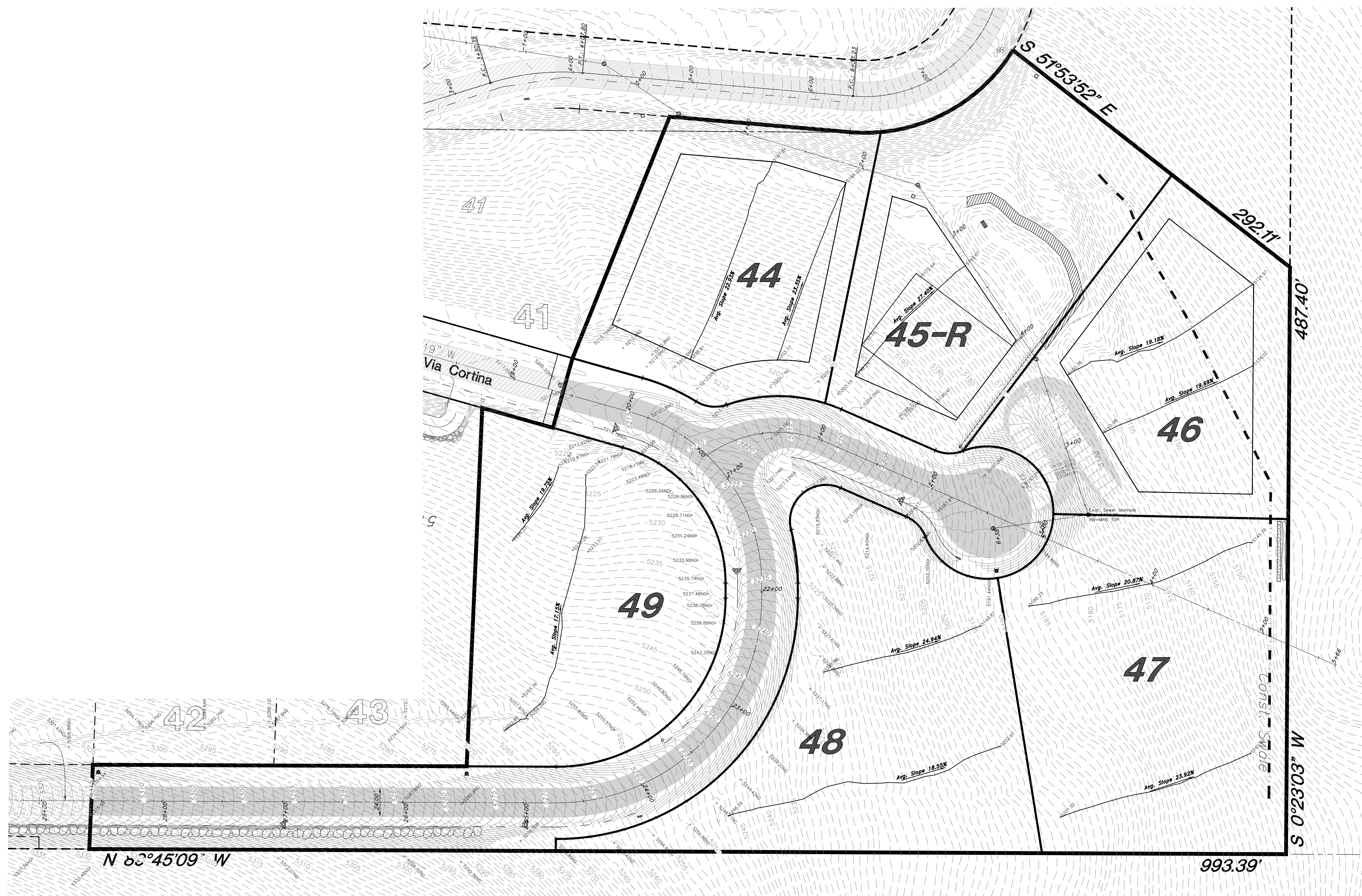
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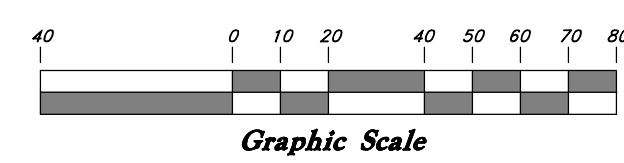
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Slope Study

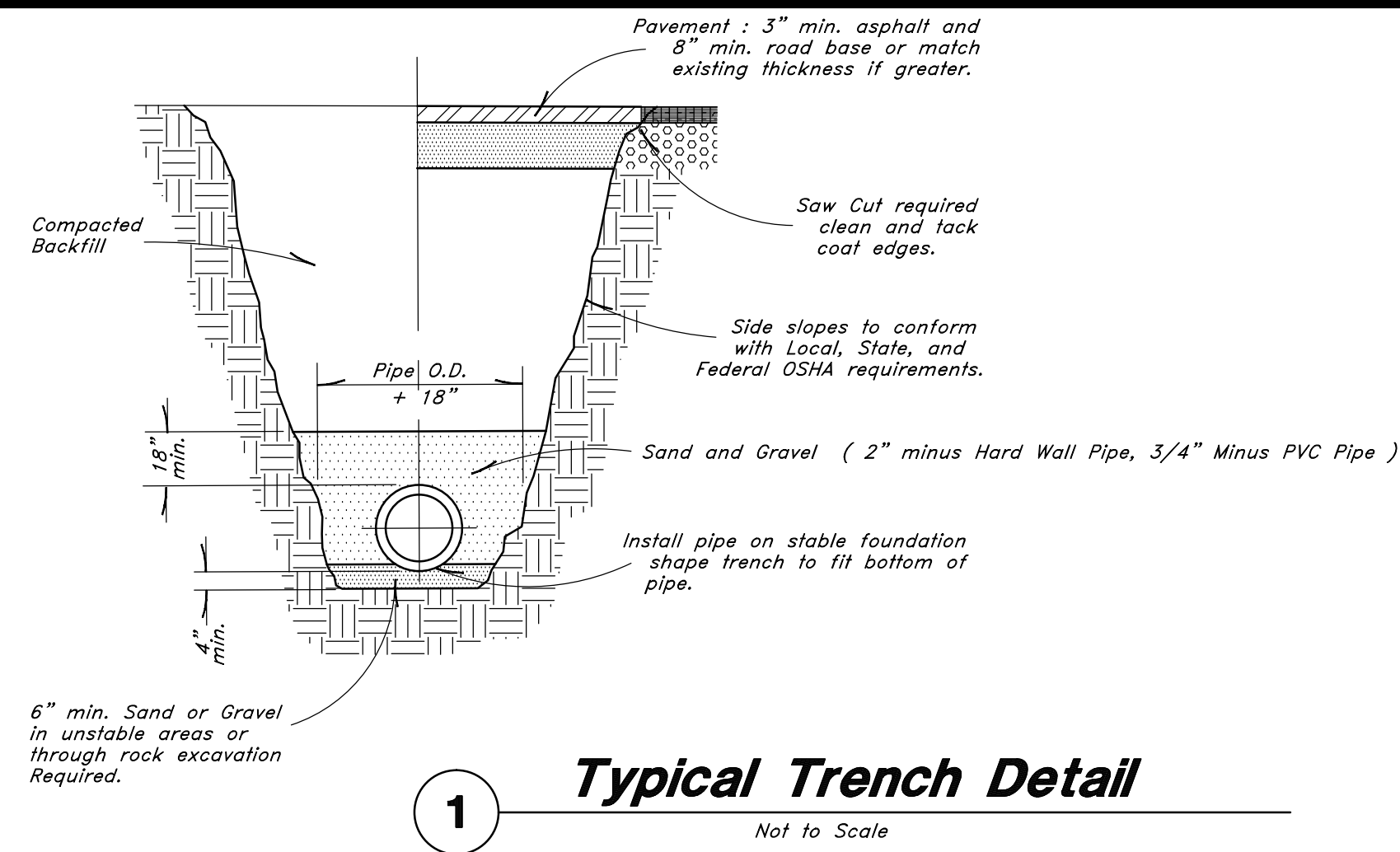
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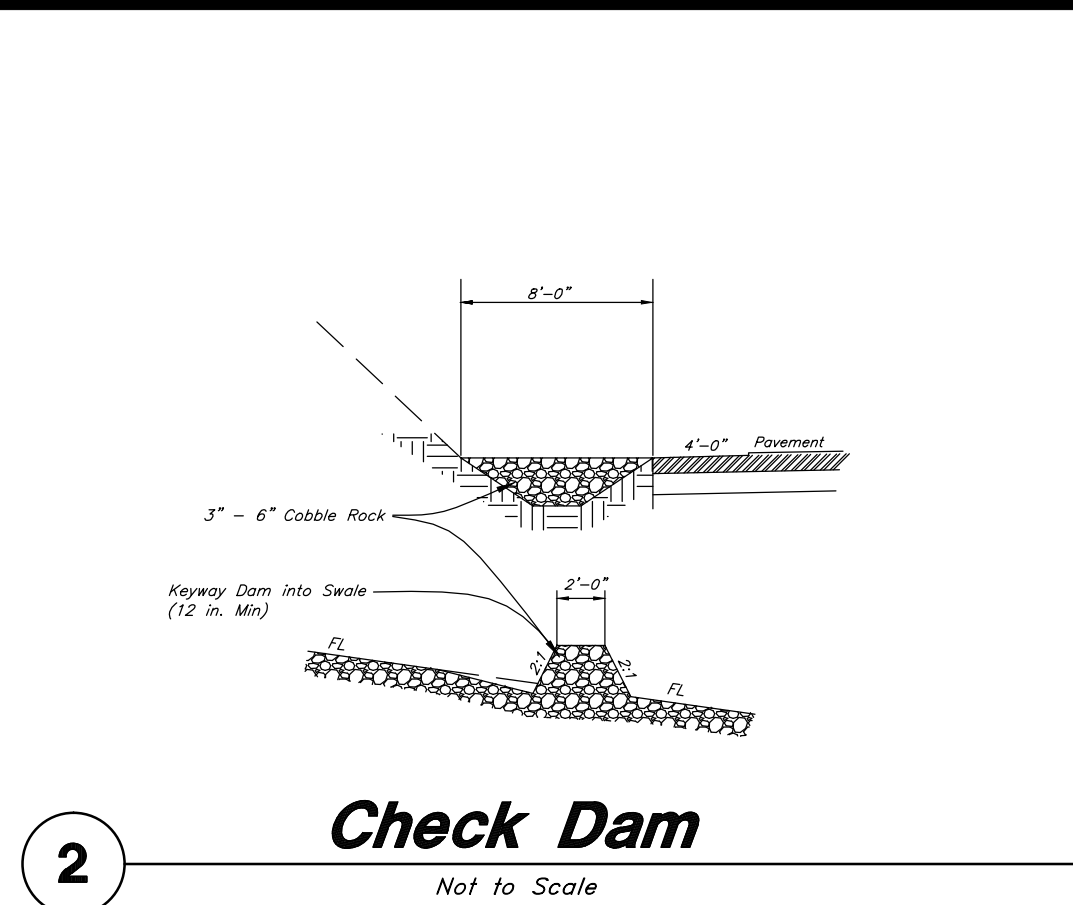
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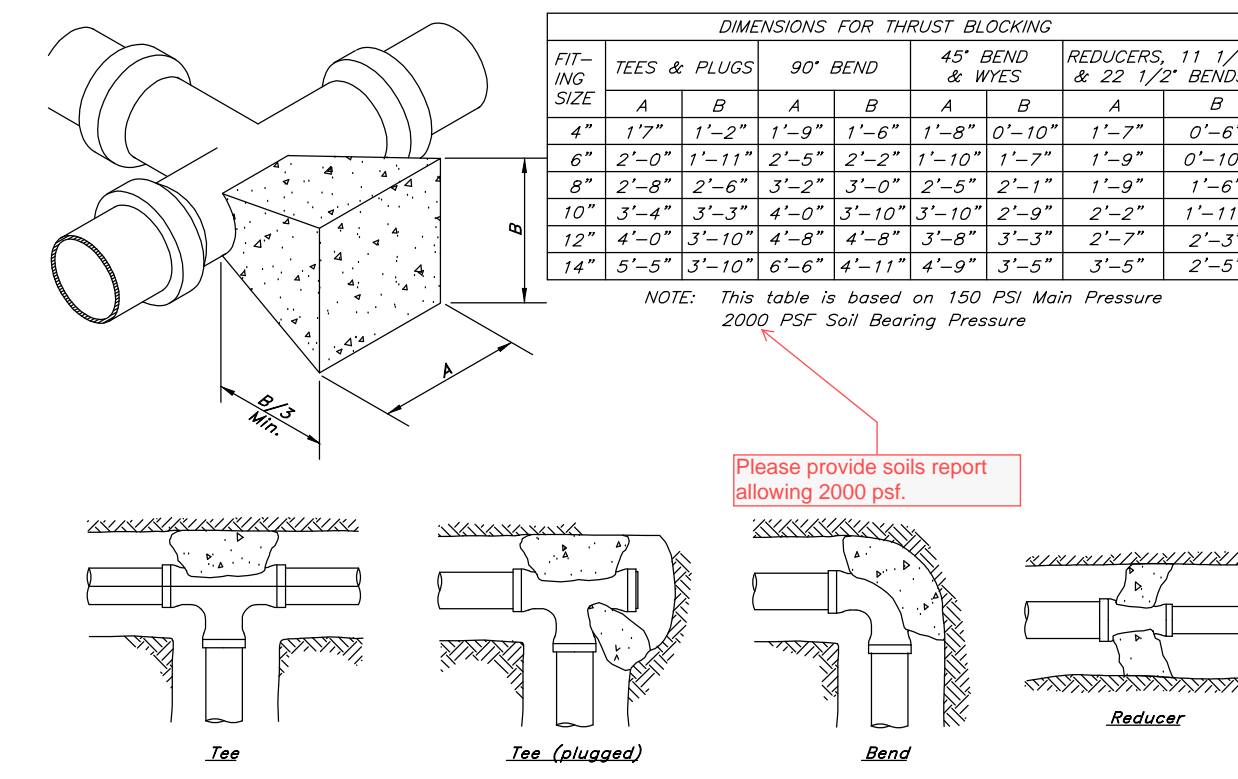
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 Of 5



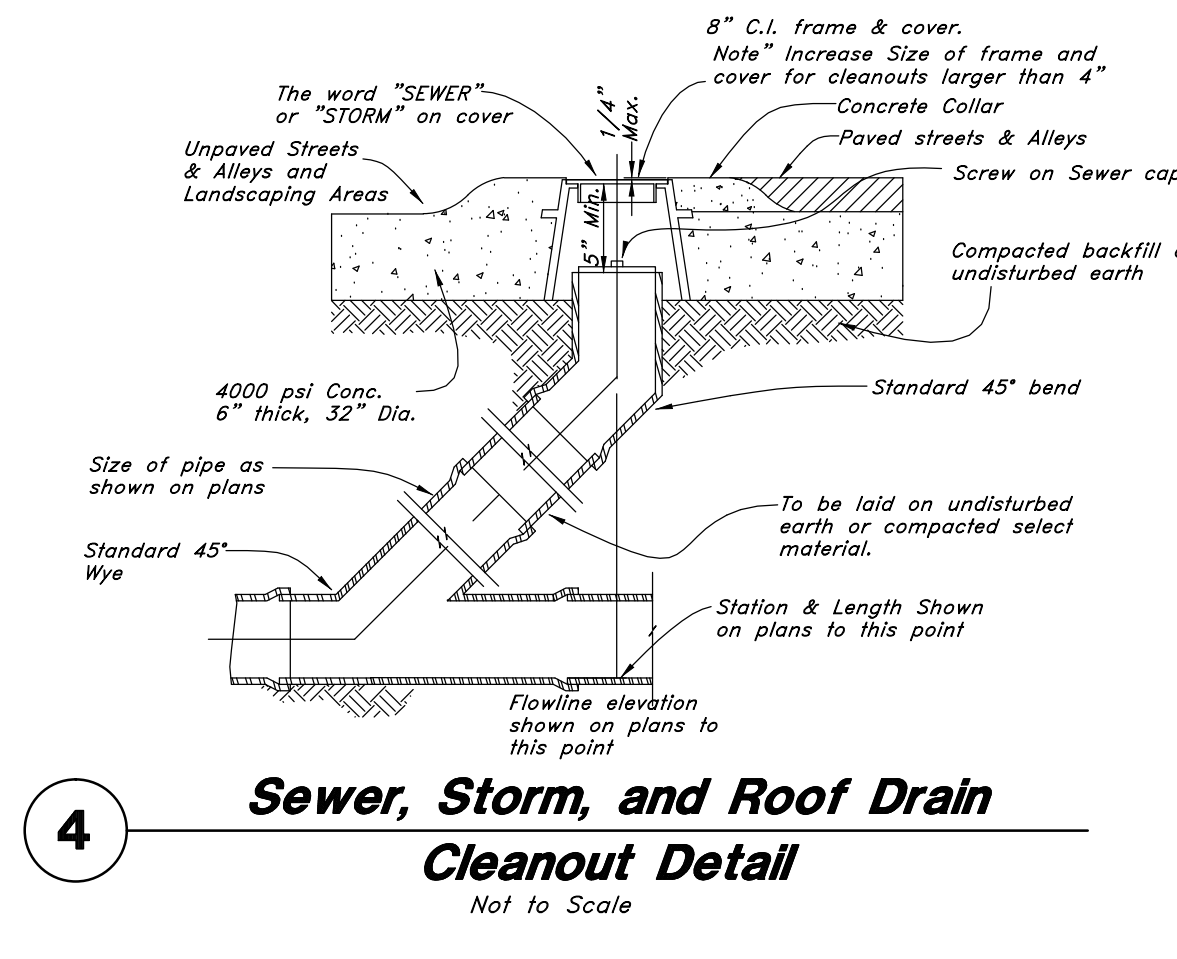
1 Typical Trench Detail
Not to Scale



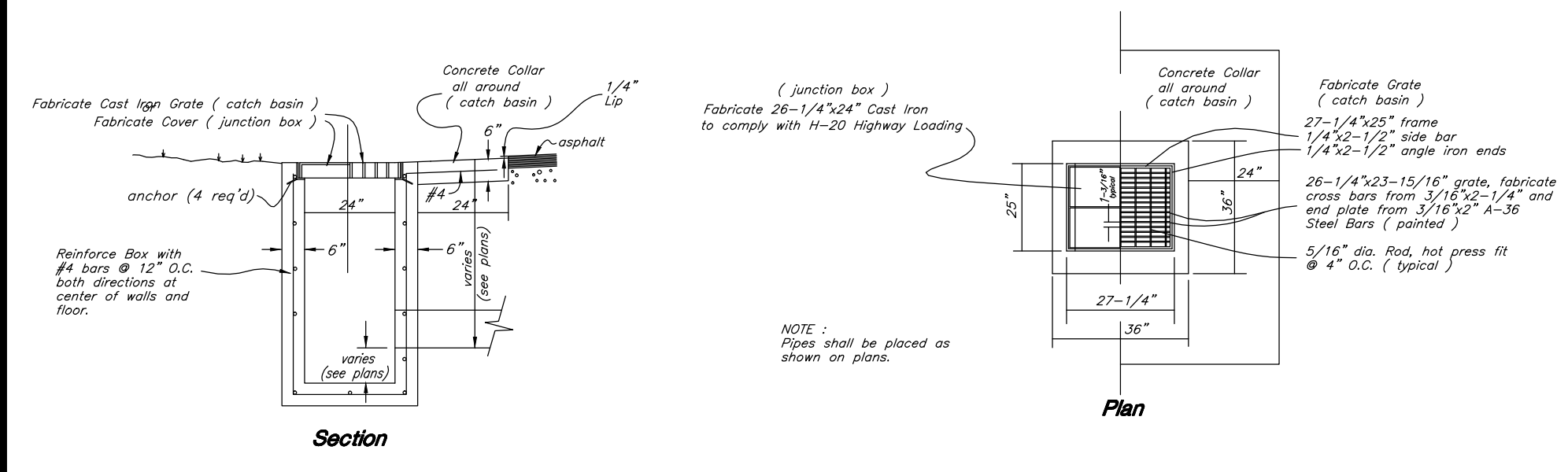
2 Check Dam
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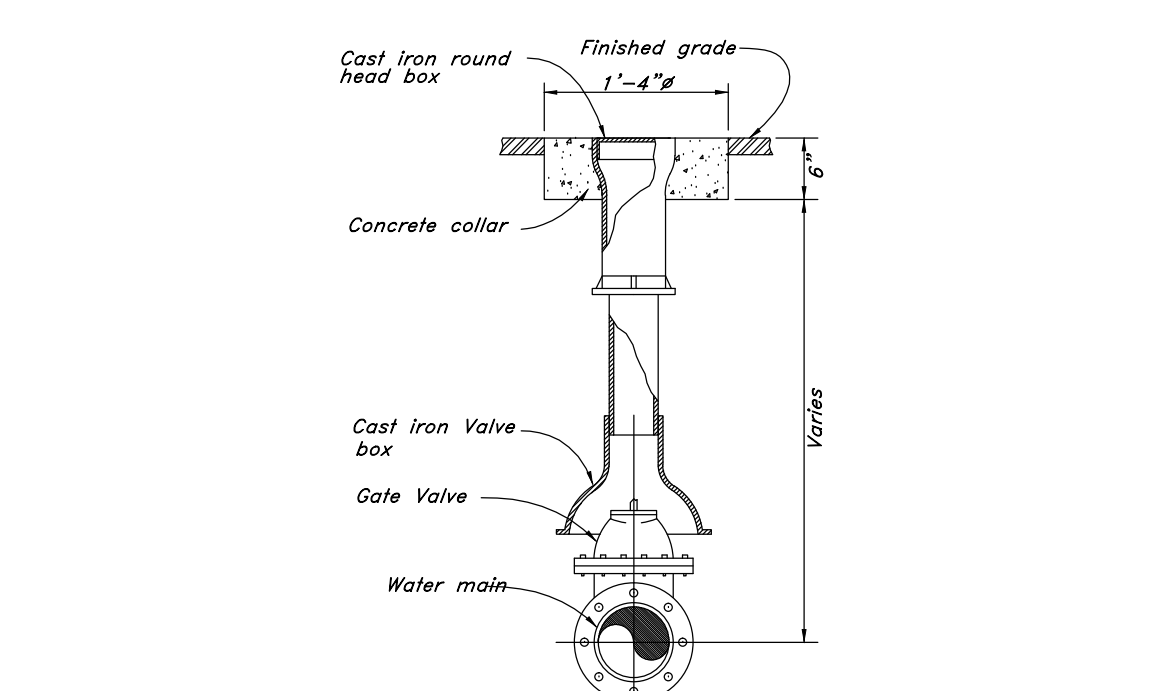
3 Thrust Blocking Details
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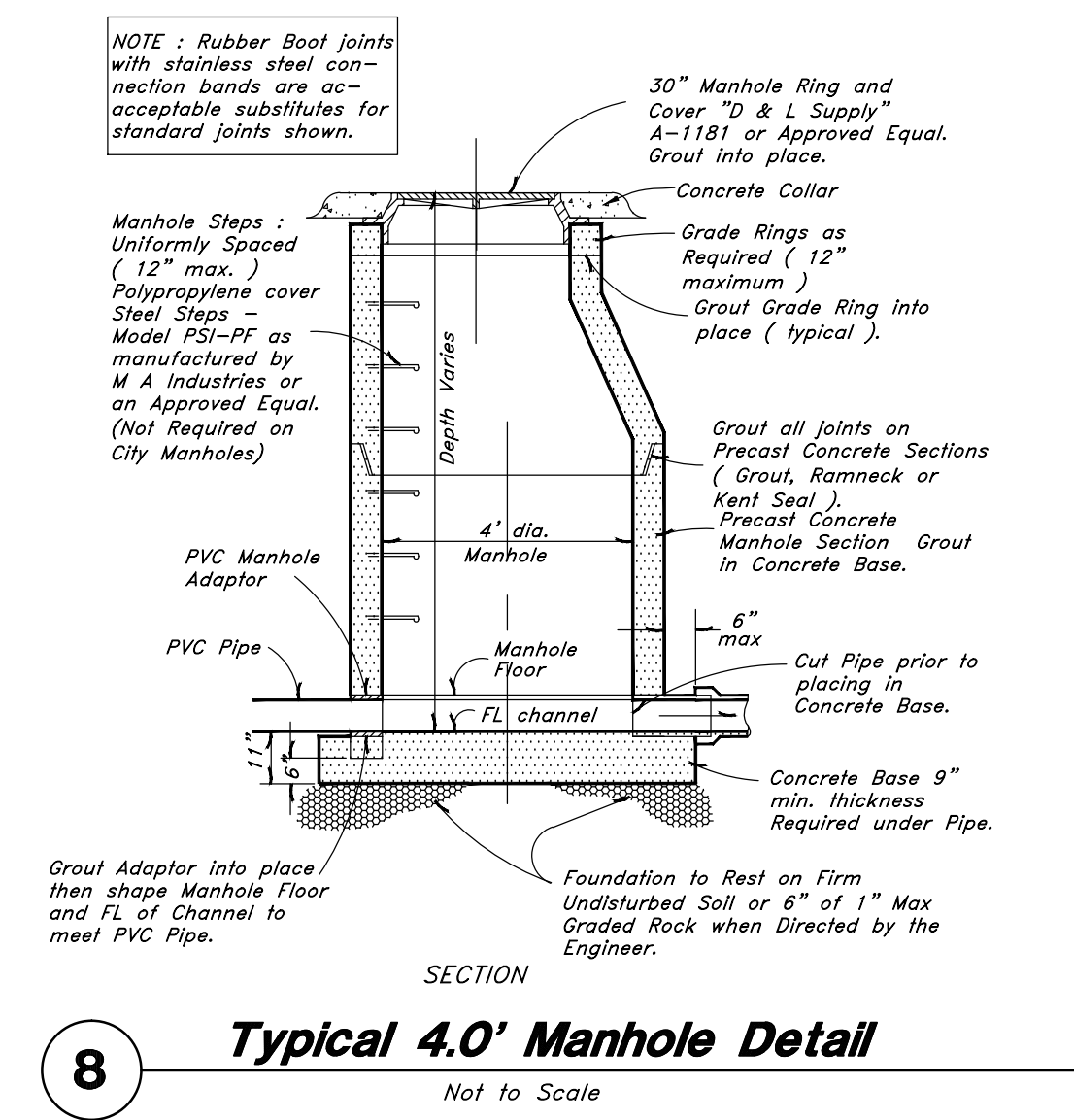
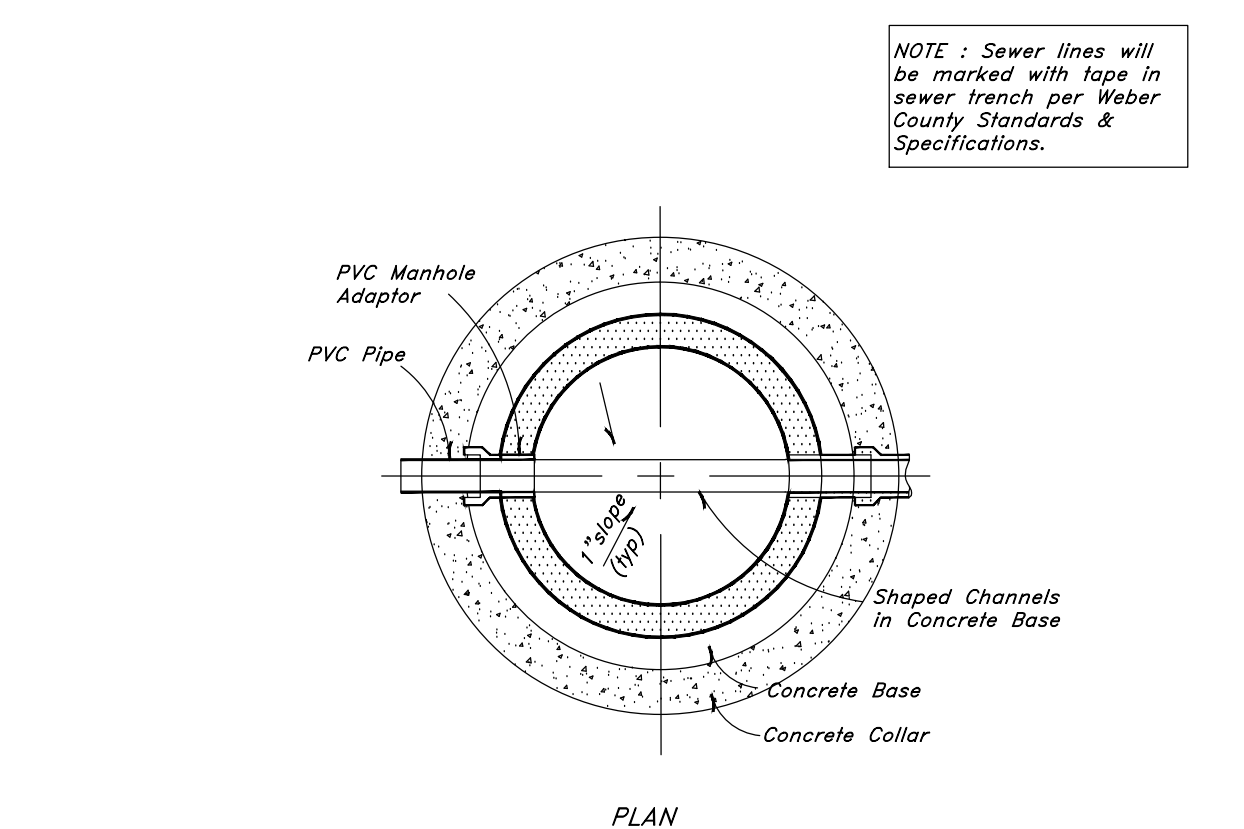
4 Sewer, Storm, and Roof Drain Cleanout Detail
Not to Scale



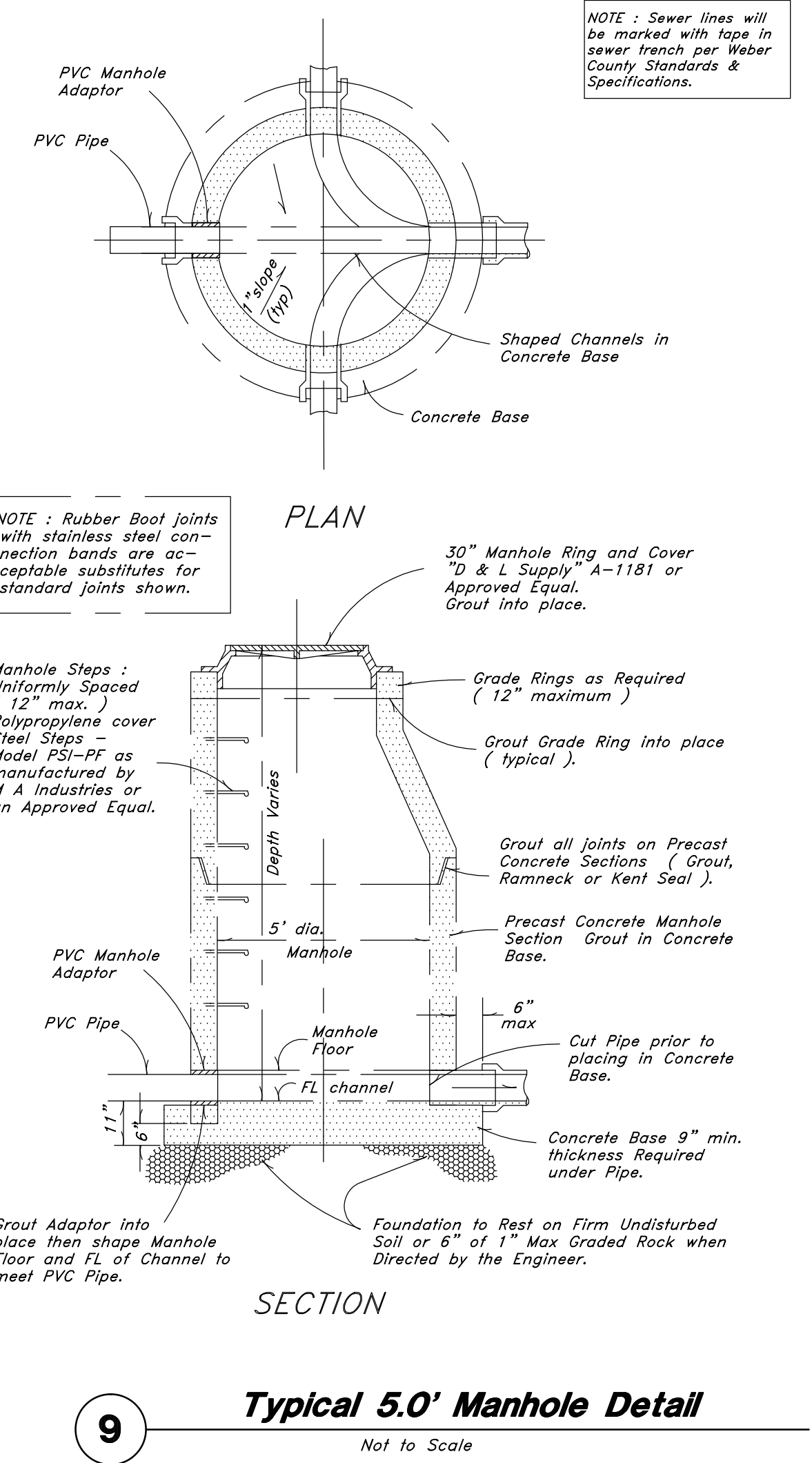
5 Typical Inlet Box
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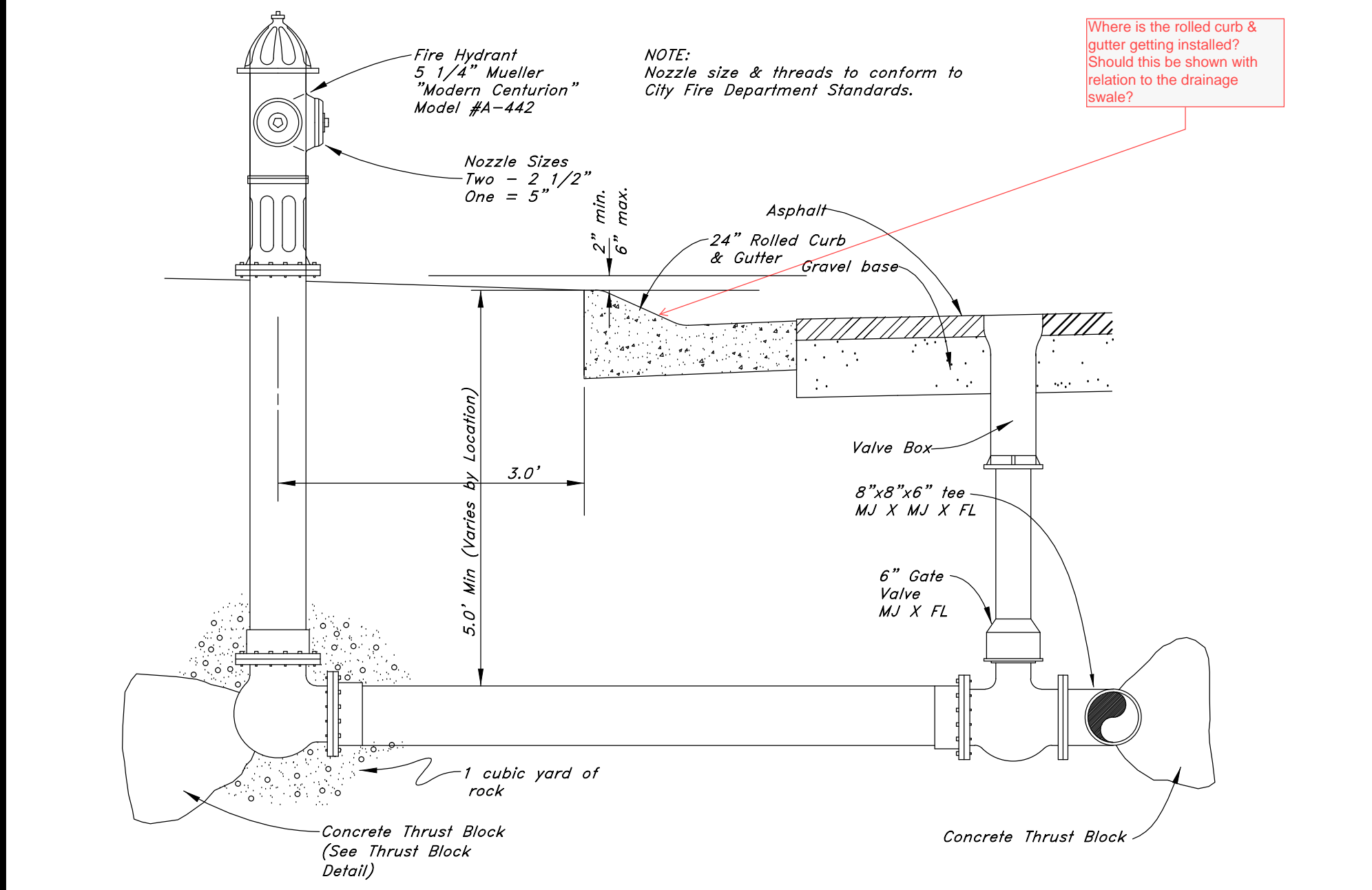
6 Typical Gate Valve
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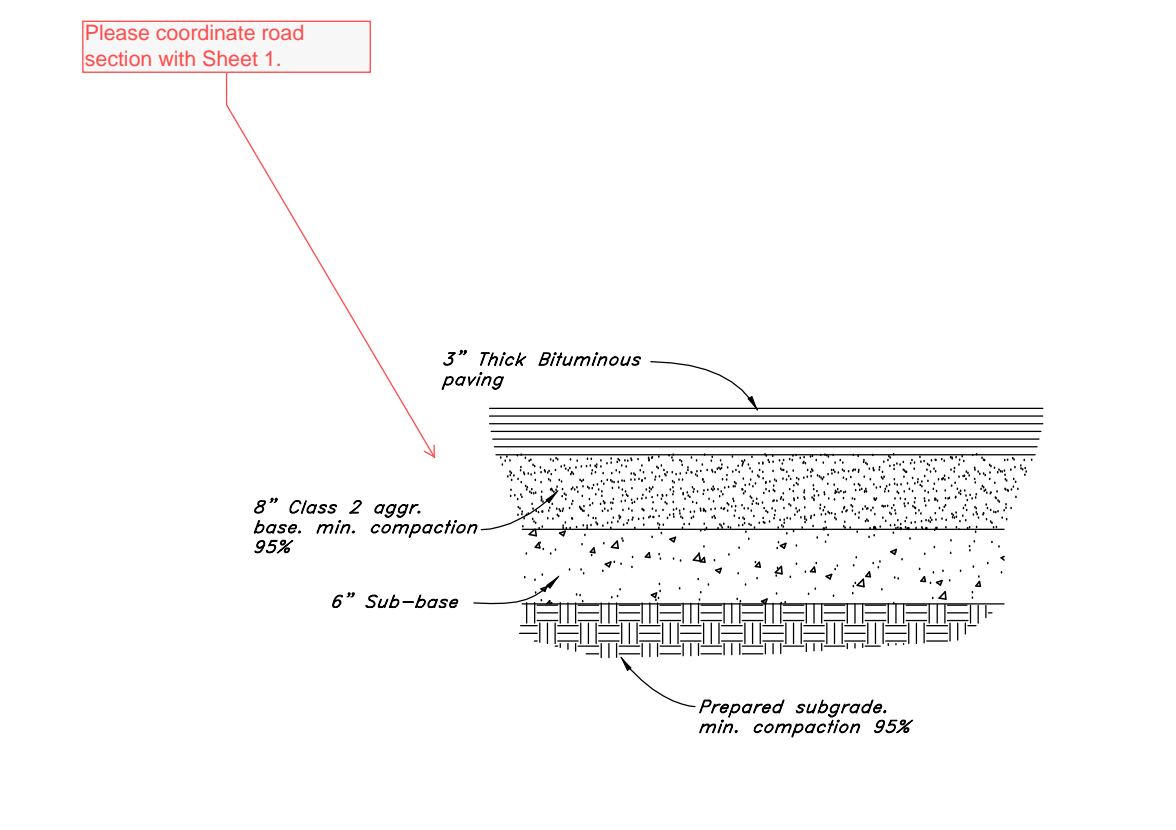
8 Typical 4.0' Manhole Detail
Not to Scale



9 Typical 5.0' Manhole Detail
Not to Scale



7 Typical Fire Hydrant & Valve Connection
Not to Scale



10 Typical Pavement Section
Not to Scale

Details		The Summit at Ski Lake Phase 12	
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