

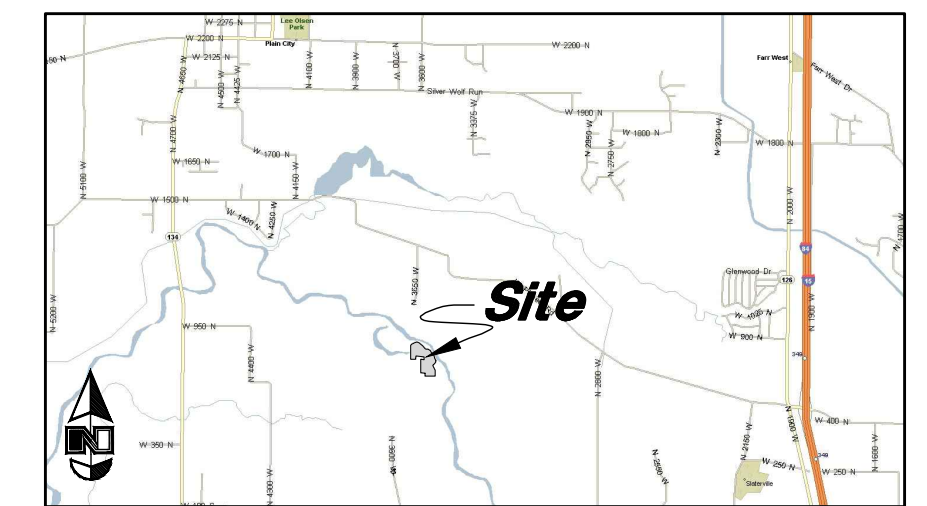
Tarakee Farm® PRUD No. 1

A PRUD Subdivision

A part of Section 9, T6N, R2W, SLB&M, U.S. Survey

Weber County, Utah

May 2022



VICINITY MAP
(Not to Scale)

* See All Sheets*

NOTES

- All construction shall conform to Weber County standards and specifications.
- Underground utility piping materials will meet or exceed the County Standards.
- All manholes to be vacuum test. BOA Tape shall be used and other water tightness materials per manufacturer.
- Culinary water services will be 3/4" Dia. C-900 DR14 PVC to be centered on the frontage and extended 10' beyond the right of way line.
- 4" Sanitary sewer laterals to be constructed 10' down slope from the center of the lot and extended 10' beyond the right of way line.
- 4" Land drain laterals to be constructed at the low corner of the lot and extended 10' beyond the right of way line.
- Saw Cut Existing Asphalt to provide a smooth clean edge.
- All Utility trenches within the Street right of way shall have a City approved imported granular backfill.
- Thrust block all water line fittings.
- All inlet grates shall be bicycle safe.
- All fire hydrants and access roads shall be installed prior to any construction of any buildings.
- All fire hydrants shall be placed with 4 1/2 inch connections facing the point of access for the Fire Department Apparatus.
- Prior to the beginning of construction of any buildings, a fire flow test of new hydrants shall be conducted to verify the actual fire flow for this project. The Fire Prevention Division shall witness this test and shall be notified a minimum of 48 hours prior to the test.
- Curb & gutter installed along 2200 South Street will be set to ensure a 1.5% minimum/3.0% Maximum cross slope from edge of asphalt. Contractor to verify prior to construction of curb.
- An excavation permit is required for all work done within the existing Right of Way.
- A Storm Water Construction Activity Permit is required for any construction that disturbs more than 5000 Sq. Ft. or 200 Cubic Yards.
- All improvements need to be either installed or escrowed prior to recording of the subdivision.
- If construction activity will disturb more than an acre then a State SWPPP will be required. This includes the construction of the homes etc. on each lot.

GENERAL UTILITY NOTES:

- Coordinate all utility connections to building with plumbing plans and building contractor.
- 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.
- All catch basin and inlet box grates are to be bicycle proof.
- All inlet boxes located in curb and gutter are to be placed parallel to the curb 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.
- Refer to the site electrical plan for details and locations of electrical lines, transformers and light poles.
- Gas lines, telephone lines, and cable TV lines are not a part of these plans unless otherwise noted.
- Water meters are to be installed per city standards and specifications. It will be the contractor's responsibility to install all items required.
- 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.
- 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.
- All gravity flow utility lines shall be installed prior to any pressurized utilities unless written permission is obtained from the engineer of record before construction begins.

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

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

WATER MAIN LINES AND FIRE LINES

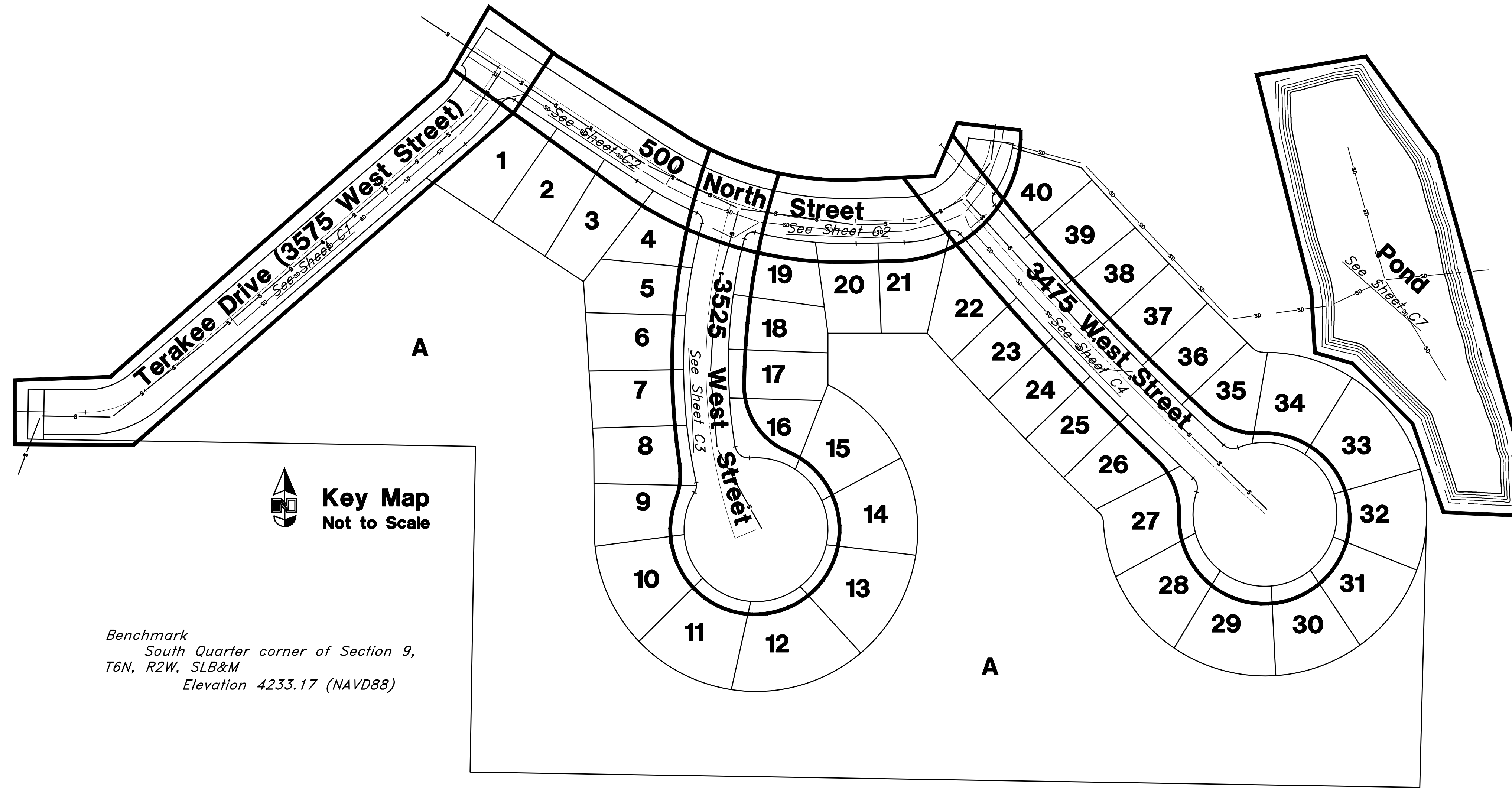
- Pipe material as shown on utility plan view or to meet city standards.

SANITARY SEWER LINES

- All sewer piping to be Polyvinyl Chloride (PVC) sewer pipe, ASTM D 3034, Type PSM, SDR 35
- Sewer Lines will be marked with marking tape above the line.

STORM DRAIN LINES

- 10" pipes or smaller - Polyvinyl Chloride (PVC) sewer pipe, ASTM D3034, Type PSM, SDR 35
- 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.
- 24" pipes or larger - Reinforced Concrete Pipe, ASTM C76, Class III up to 13' of cover, Class IV for 13' to 21' of cover, Class V for 21' to 32' of cover, and Special Design for cover greater than 32 feet.



Key Map
Not to Scale

Benchmark
South Quarter corner of Section 9,
T6N, R2W, SLB&M
Elevation 4233.17 (NAVD88)

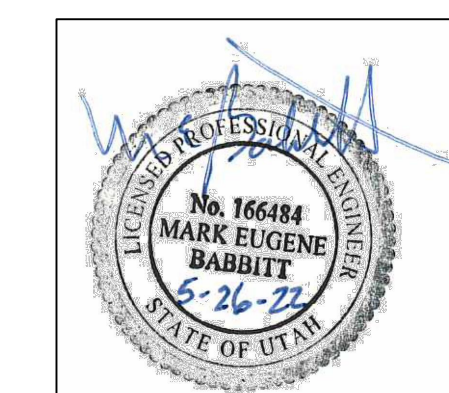
NOTES:

- Secondary water design will be provided as a separate package.

Legend

(Note: All items may not appear on drawing)

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- Water Manhole
- Storm Drain Manhole
- Cleanout
- Electrical Manhole
- Catch Basins
- Exist. Fire Hydrant
- Fire Hydrant
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- Sanitary Sewer
- Culinary Water
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- Reinforced Concrete Pipe
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- Polyvinyl Chloride
- Top of Asphalt
- Edge of Asphalt
- Centerline
- Flowline
- Finish Floor
- Top of Curb
- Top of Wall
- Top of Walk
- Top of Concrete
- Natural Ground
- Finish Grade
- Match Existing
- Fire Department Connection
- Exist. Contour
- Exist. Contour
- Exist. Grade
- Exist. Grade
- Ridge Line
- Direction of Flow
- Existing Asphalt
- New Asphalt
- Existing Concrete
- New Concrete



Call before you Dig
Avoid cutting underground utility lines. Be safe.



CONSTRUCTION SITE

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 proposed 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.

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MARK EUGENE BABITT, LICENSED PROFESSIONAL ENGINEER, No. 166484
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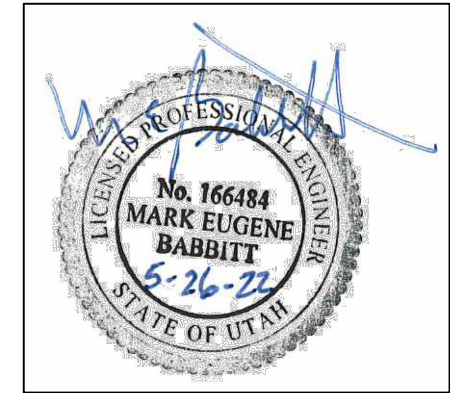
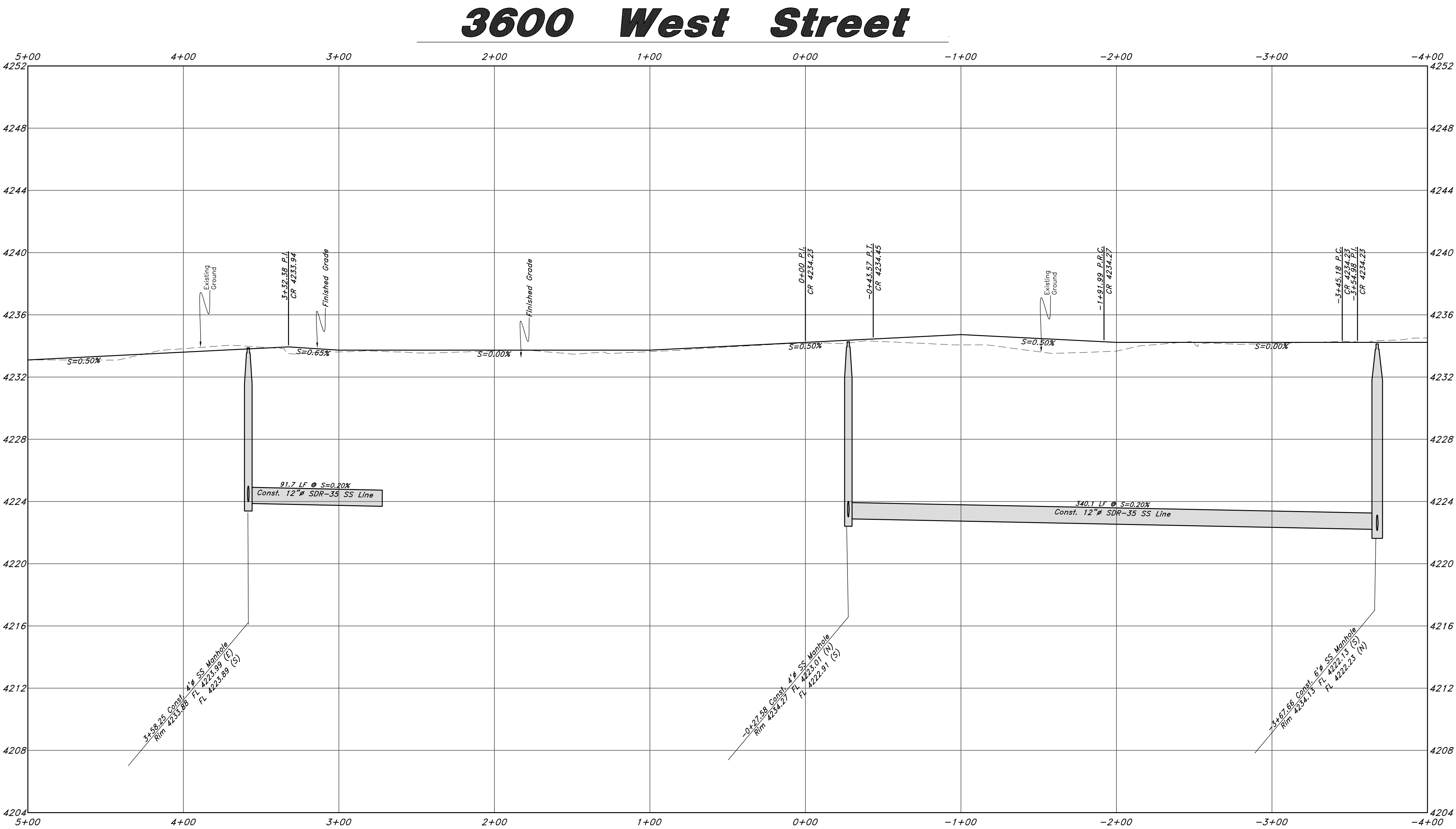
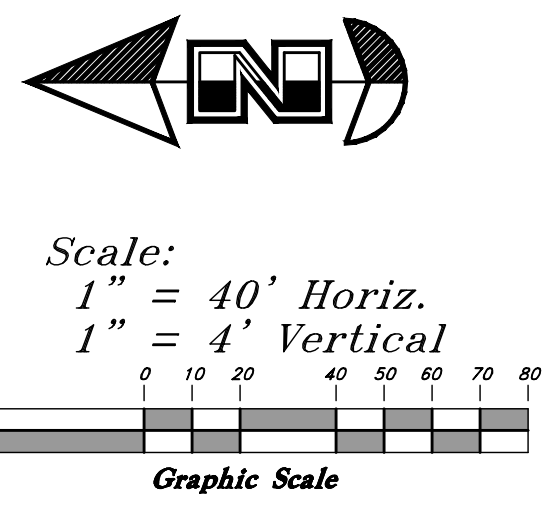
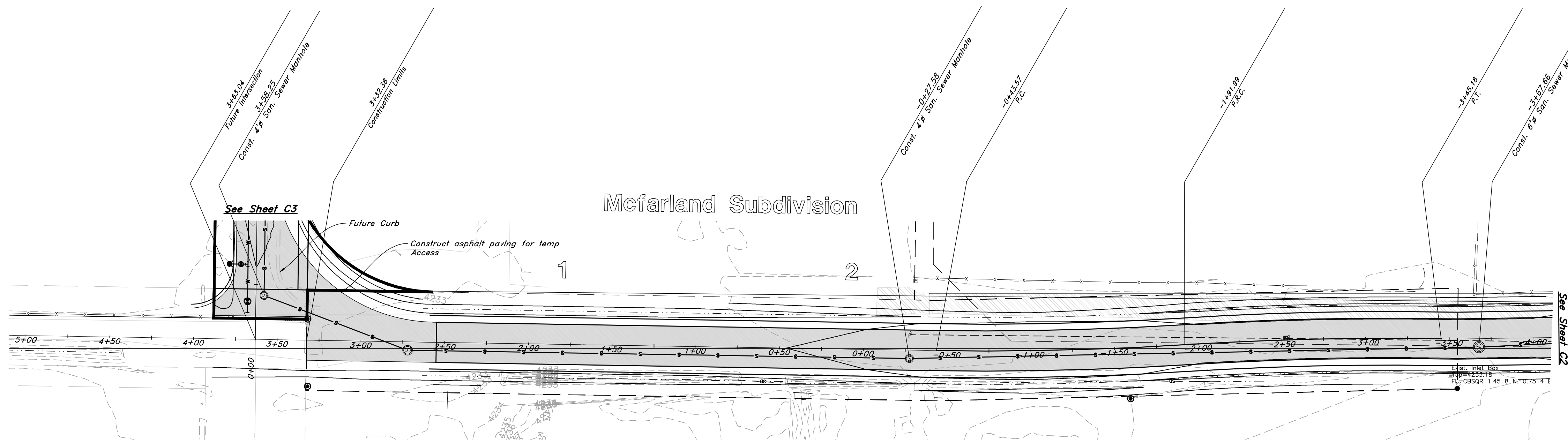
Plan & Profile
Terakee Farm PRUD No. 1
Approximately 1000 North 3600 West
Weber County, Utah
A part of Section 9, T6N, R2W, SLB&M, U.S. Survey

May, 2022
SHEET NO. **CO** of 7
16N704 - AM-1

Legend

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Call before you Dig
Avoid cutting underground utility lines. It's costly.

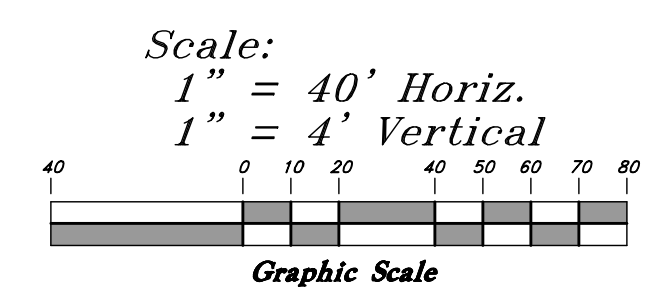
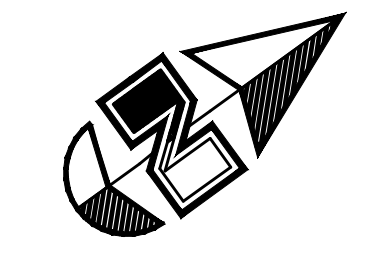


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CONSTRUCTION SERVICES

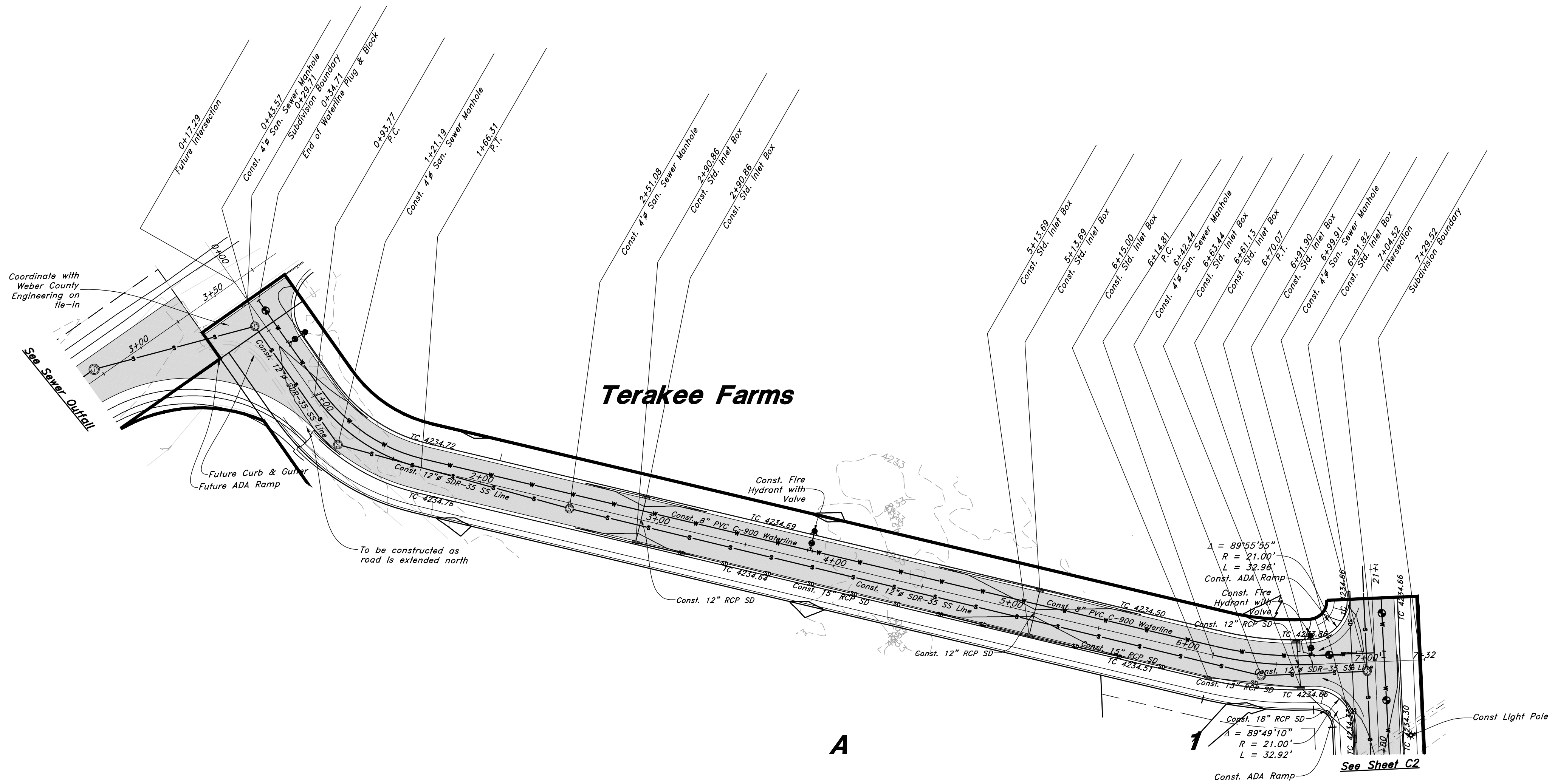


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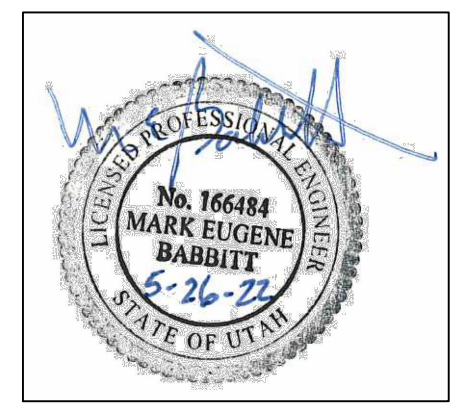
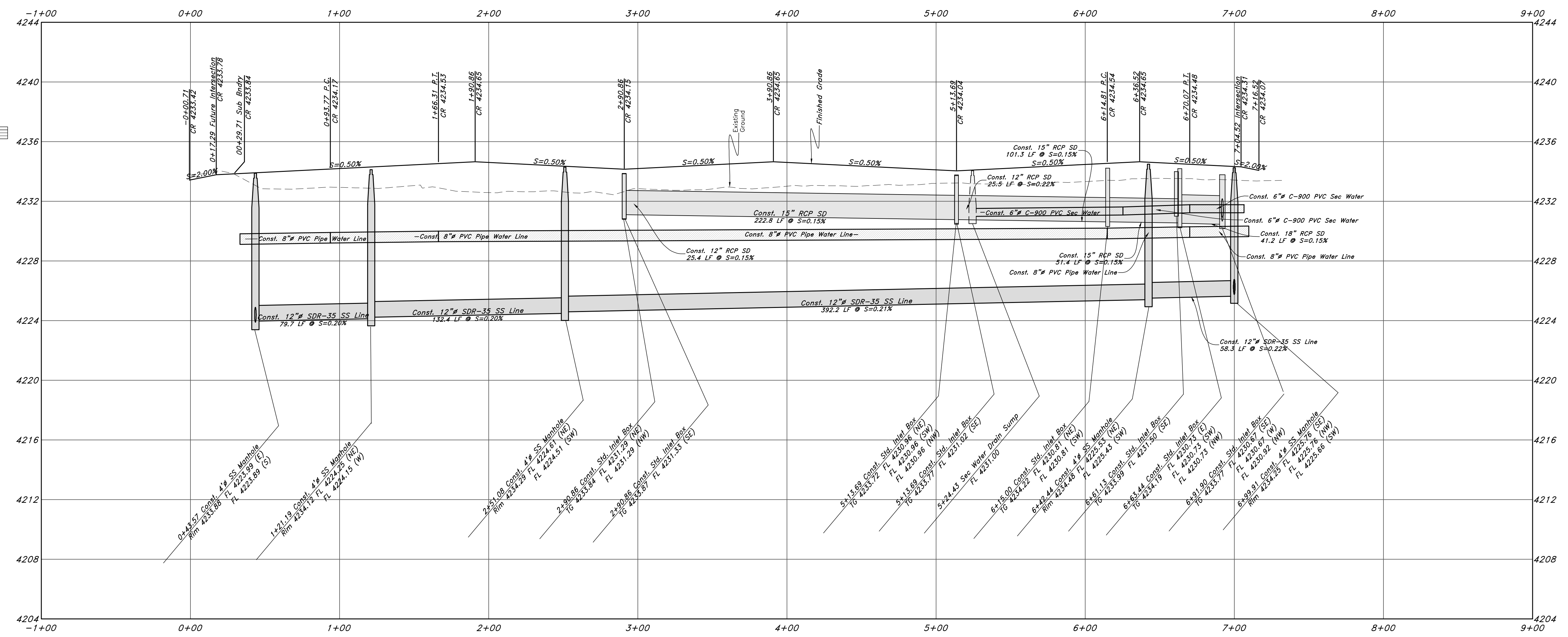
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- Existing Asphalt
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Terakee Drive (3575 West Street)



Call before you Dig
Avoid cutting underground utility lines. It's costly.



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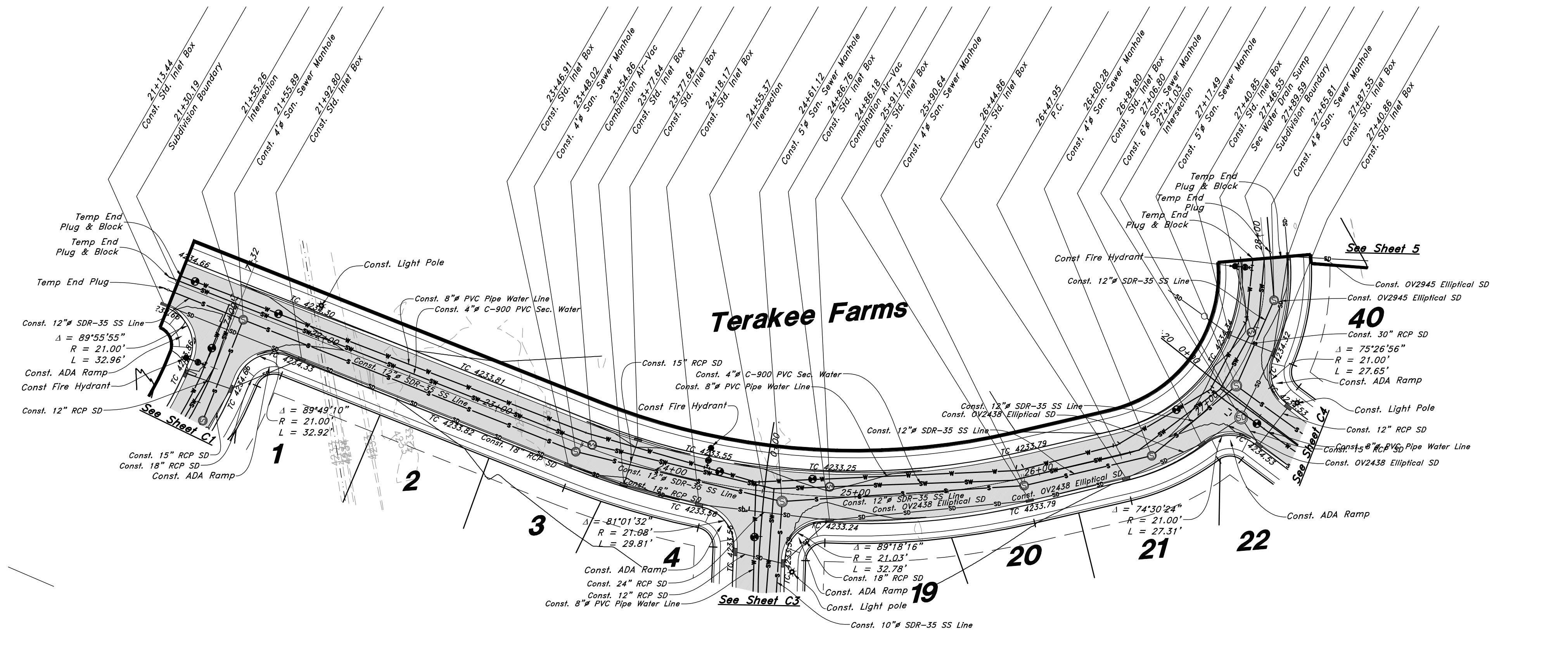
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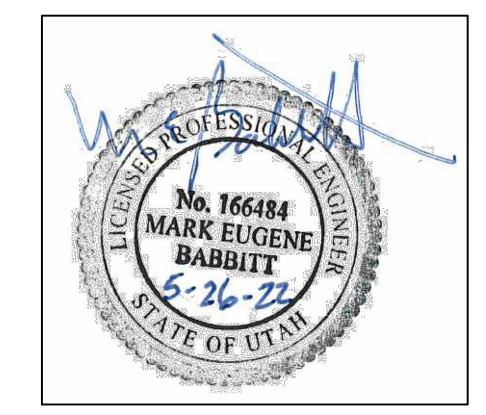
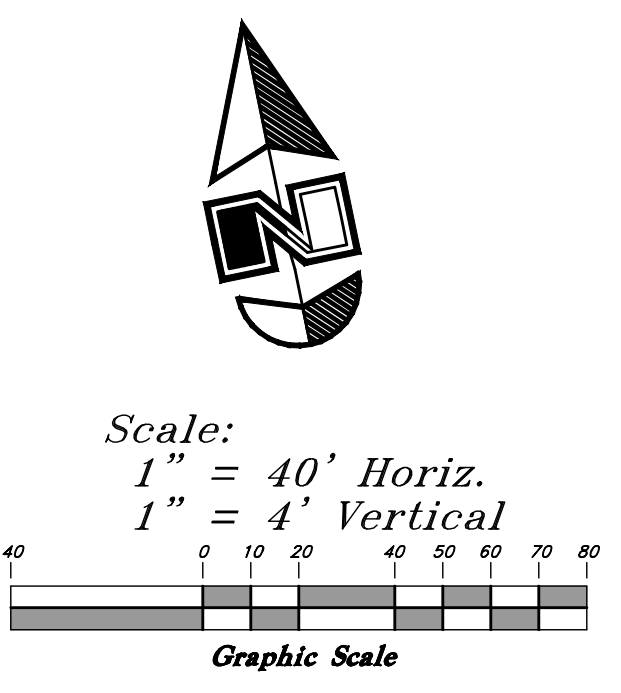
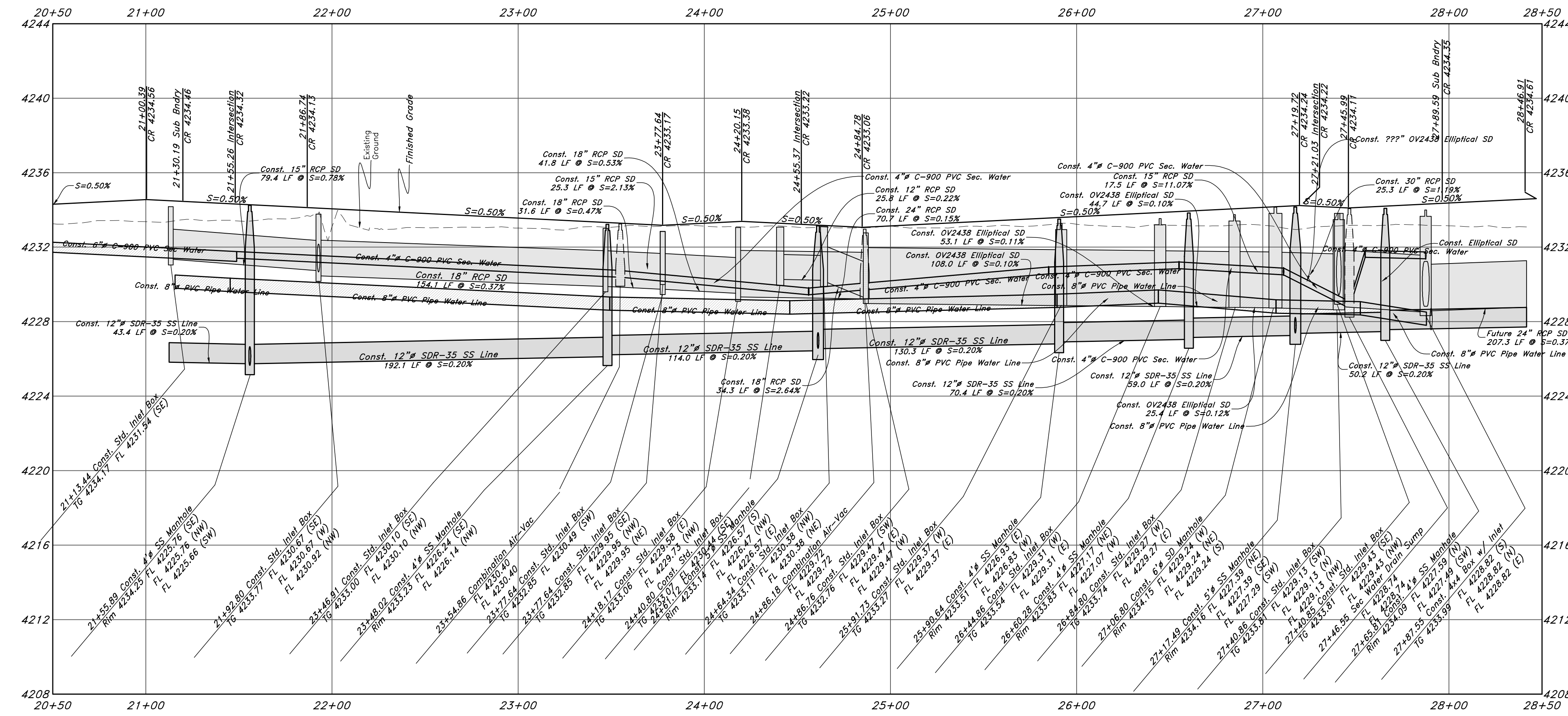
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500 North Street



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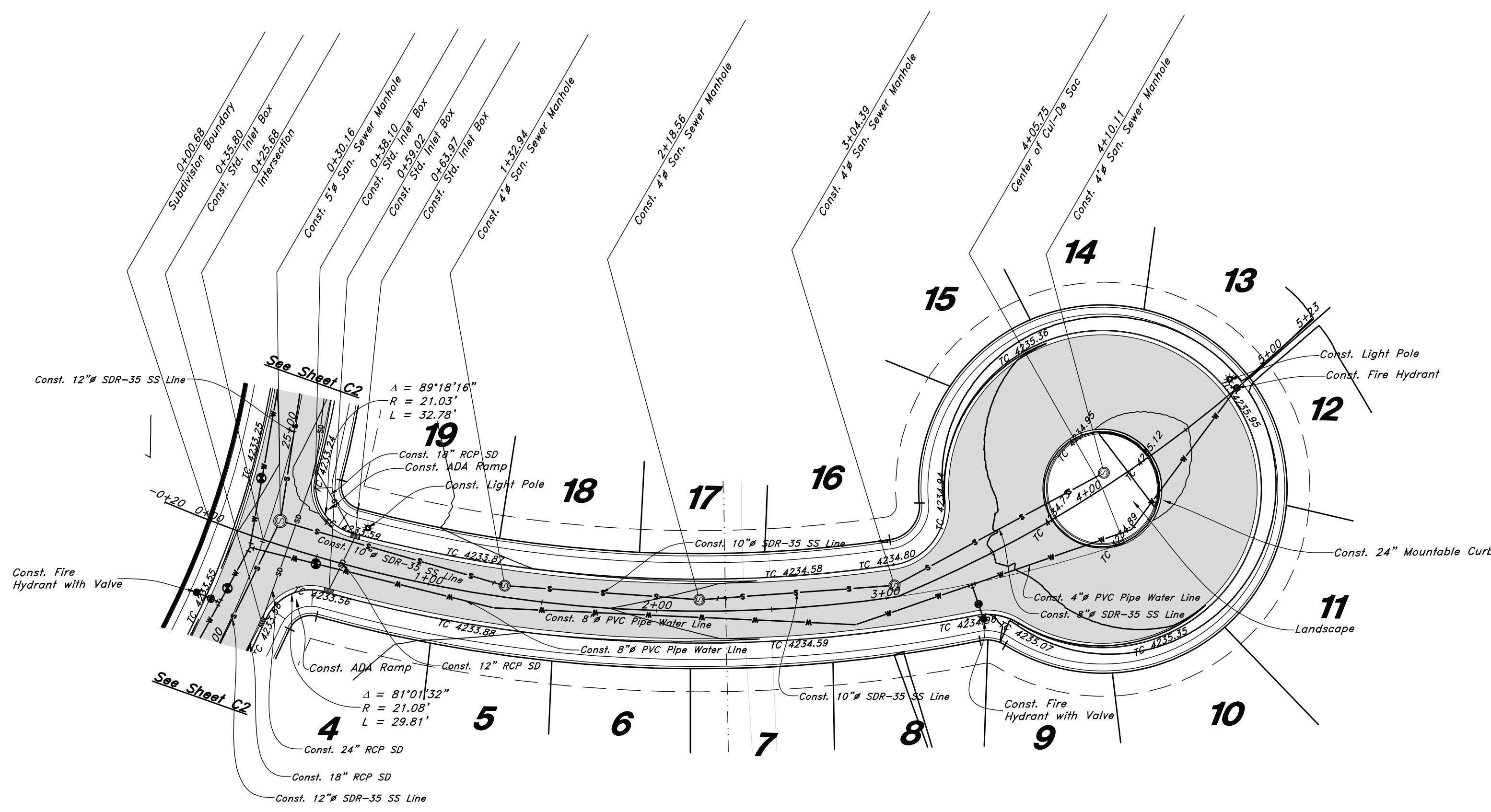
May, 2022
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CONSTRUCTION SITE

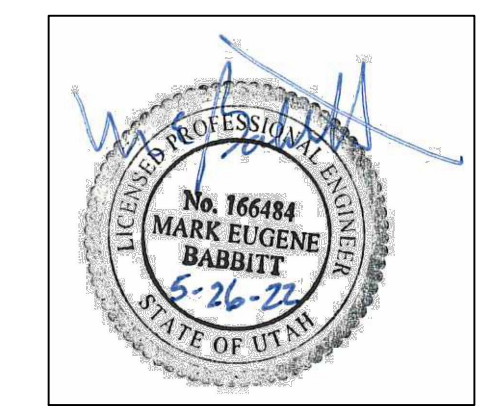
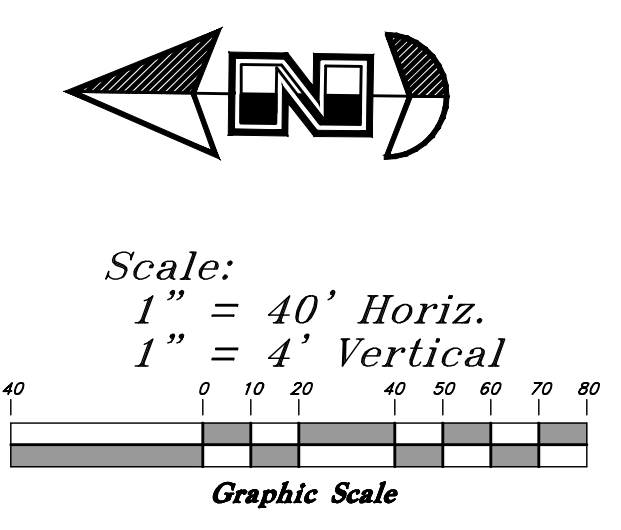
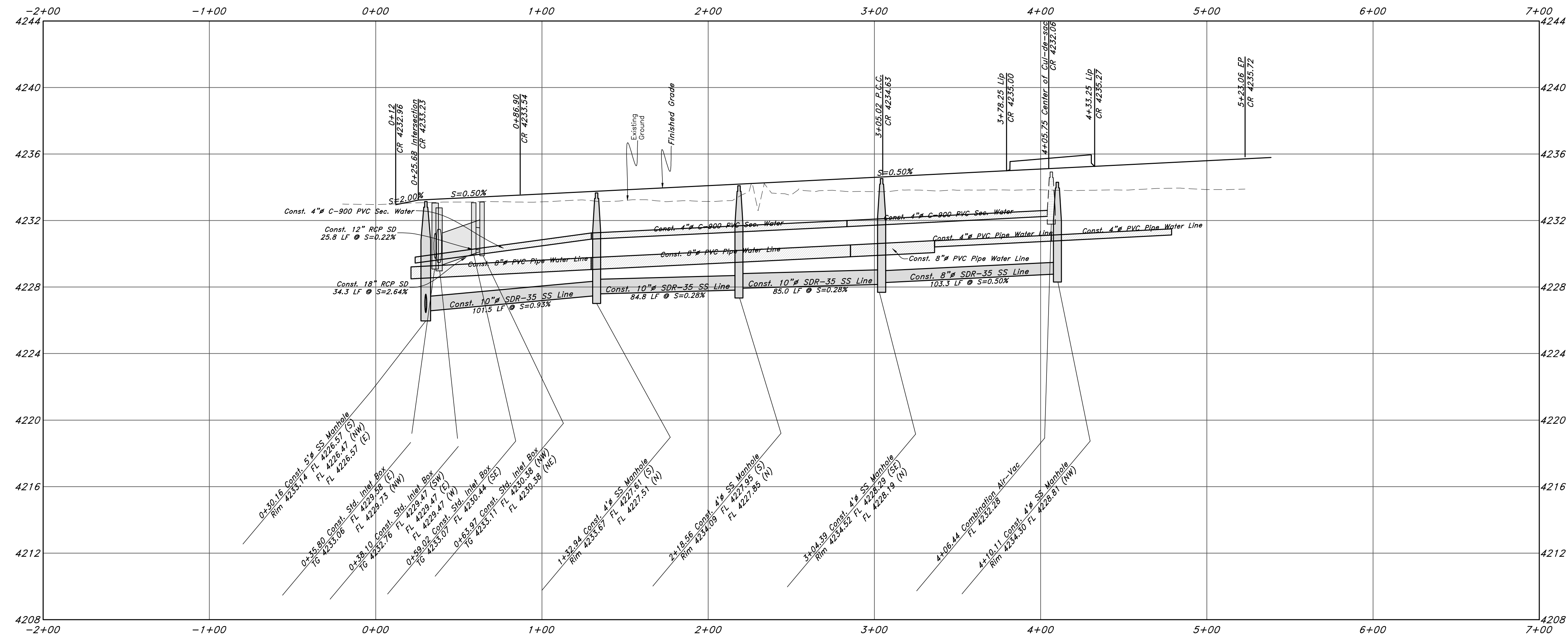
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3525 West Street



Call before you Dig
Avoid cutting underground utility lines. It's costly.



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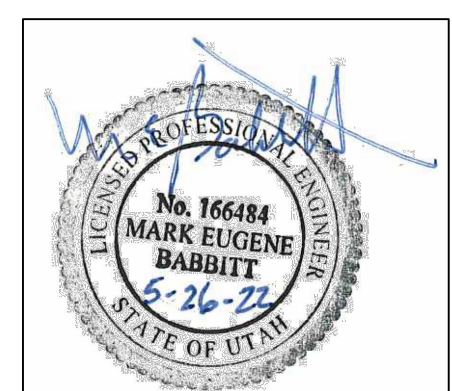
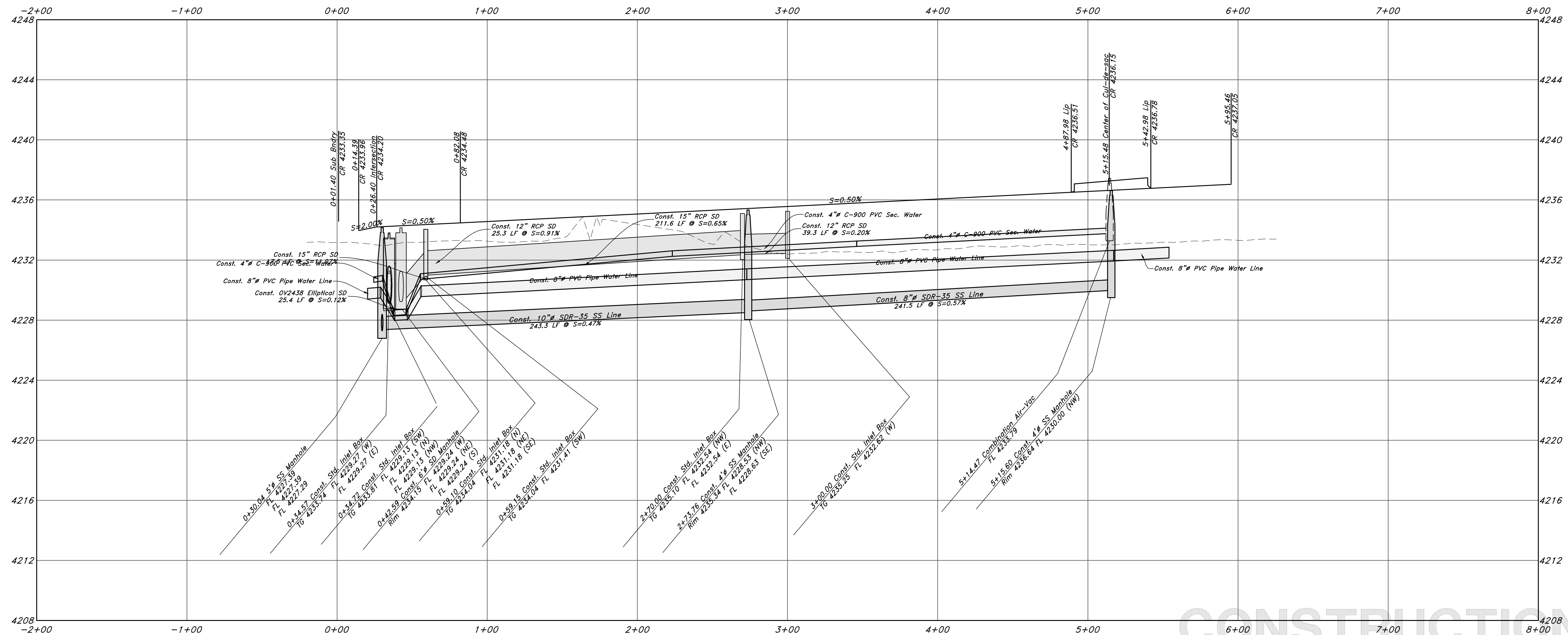
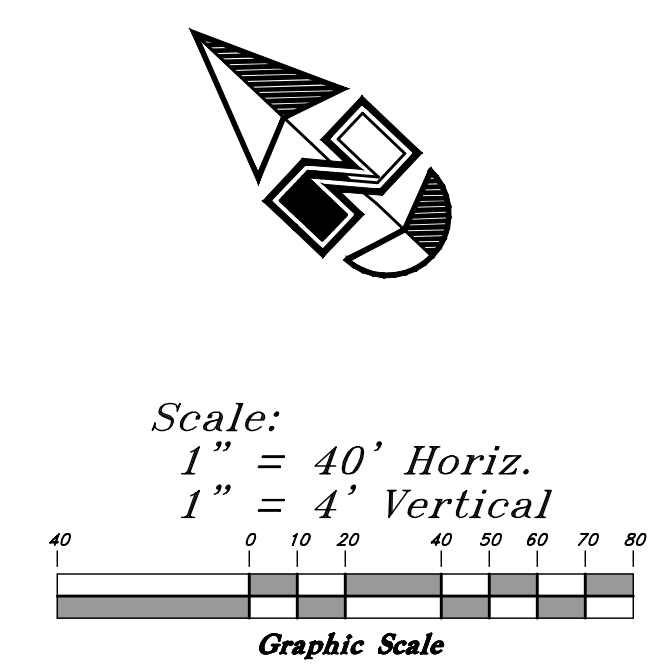
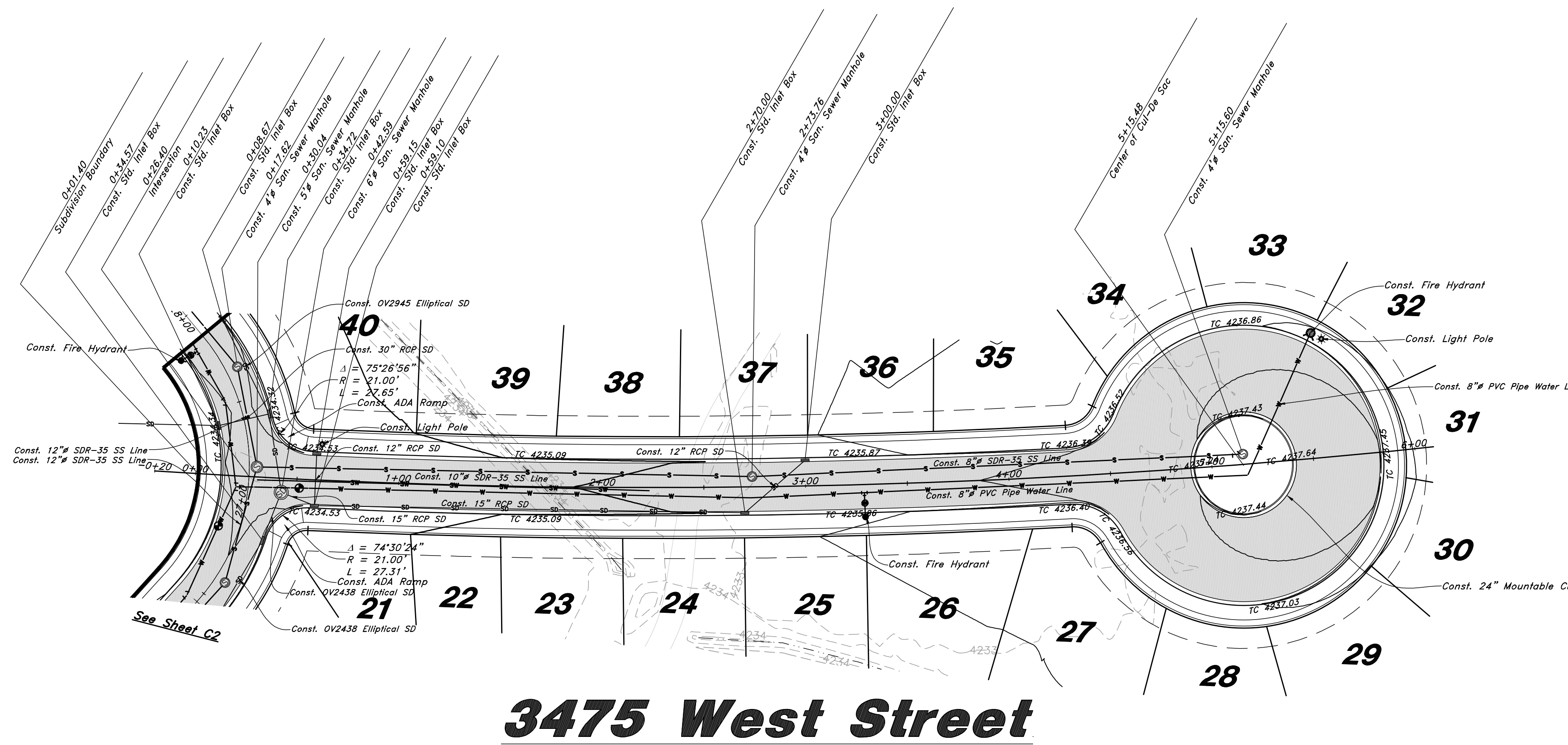
May, 2022
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CONSTRUCTION SITE

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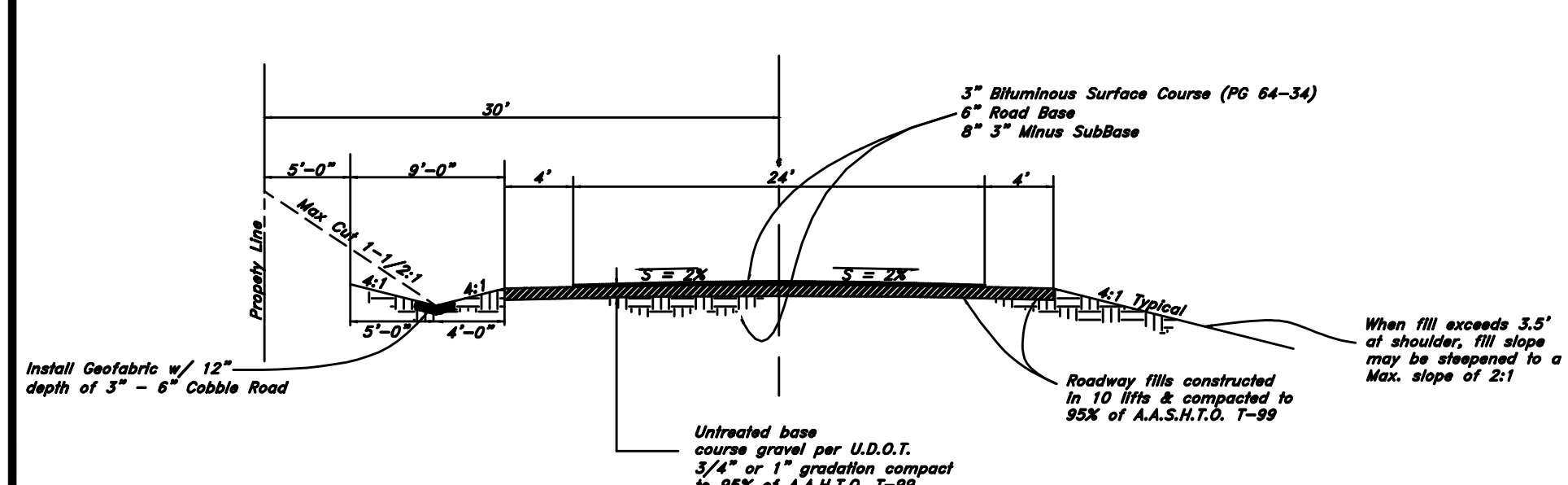
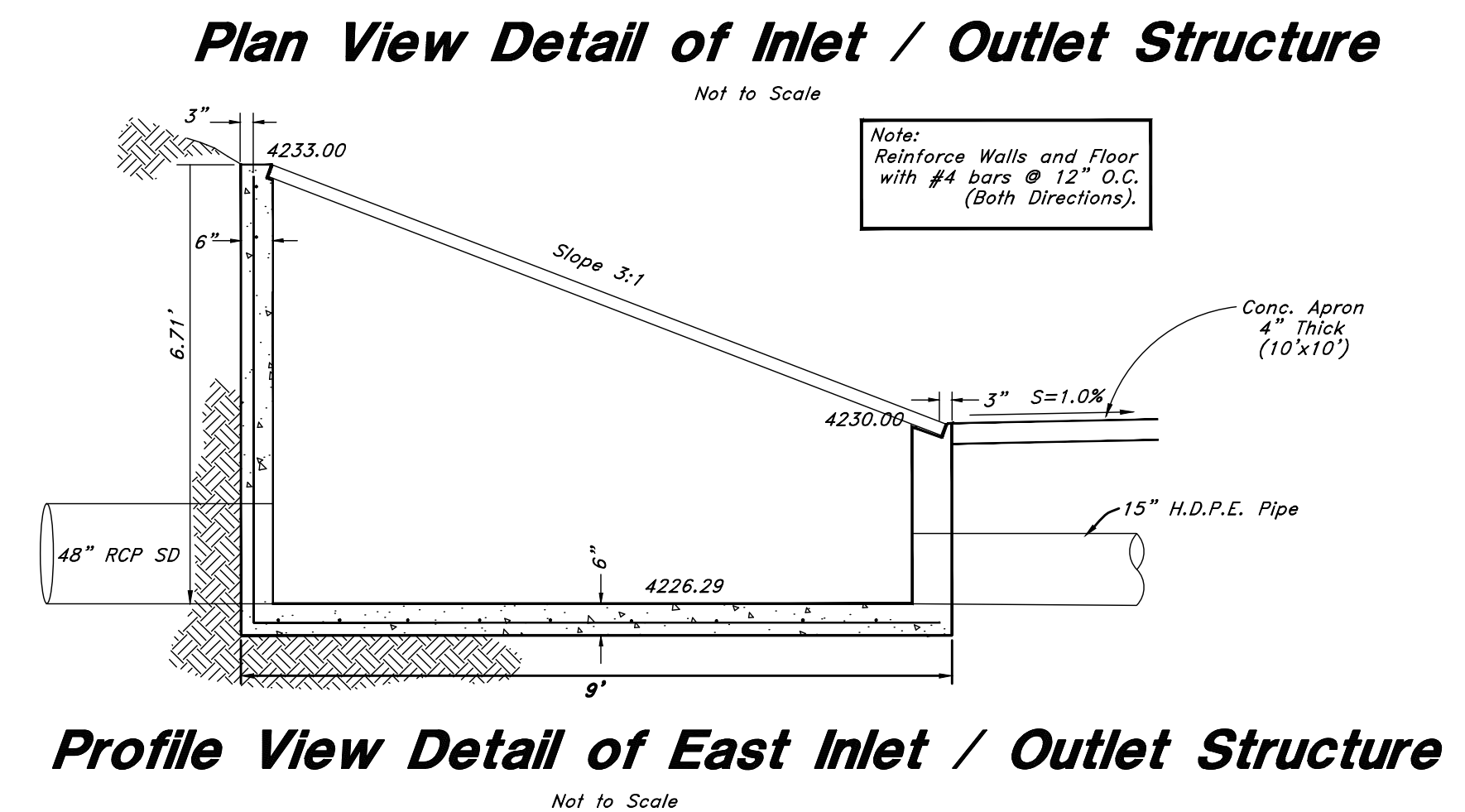
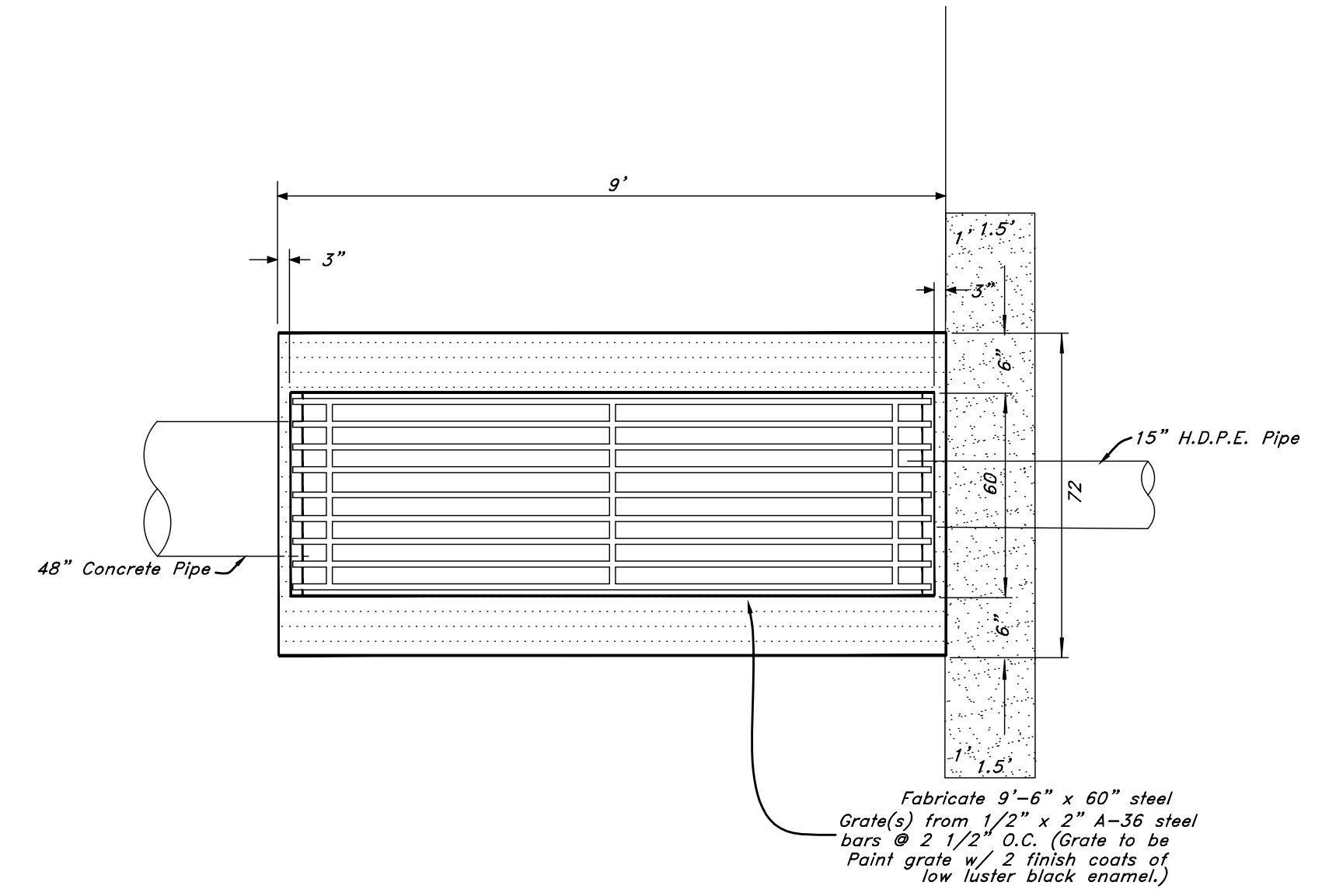
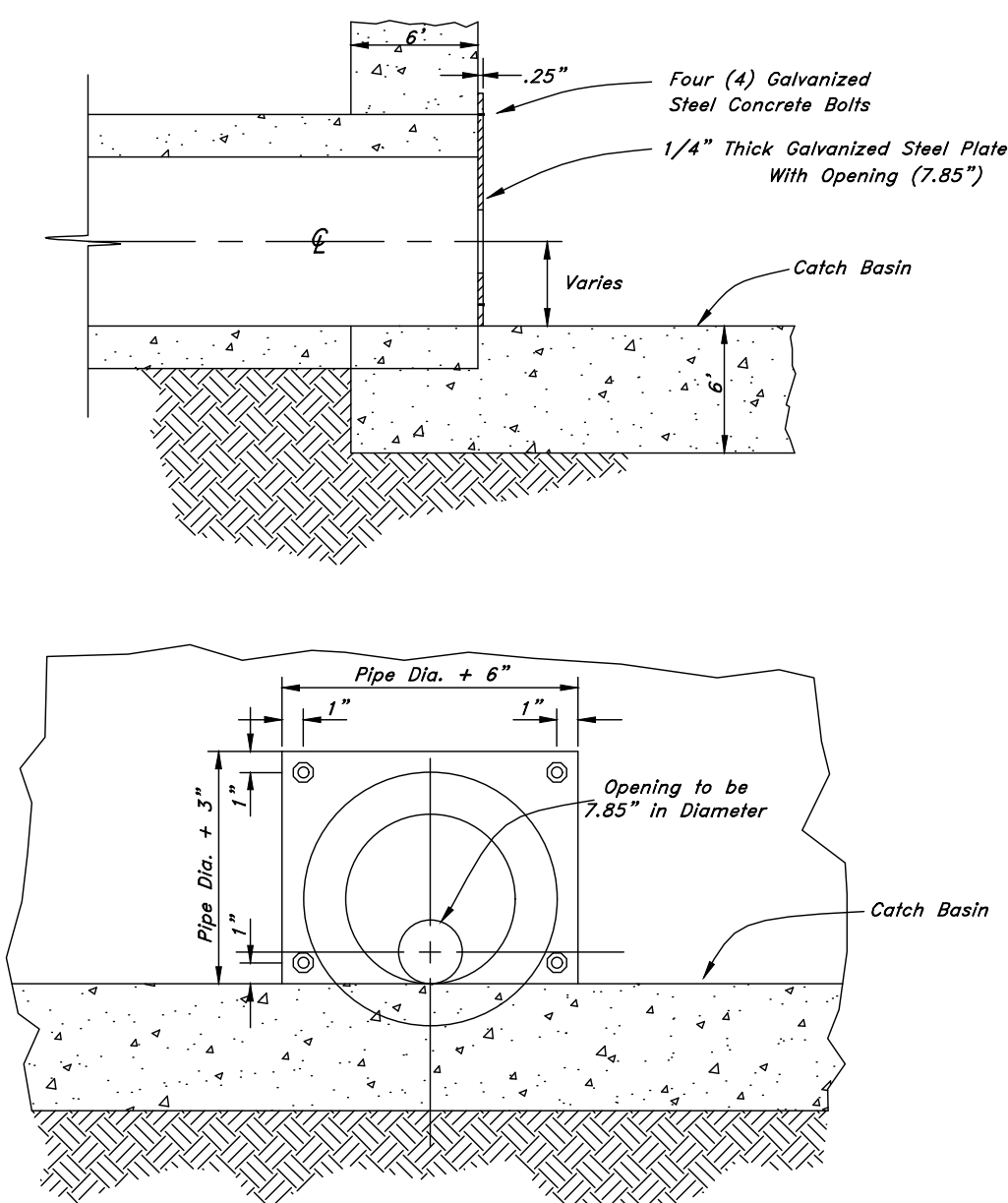
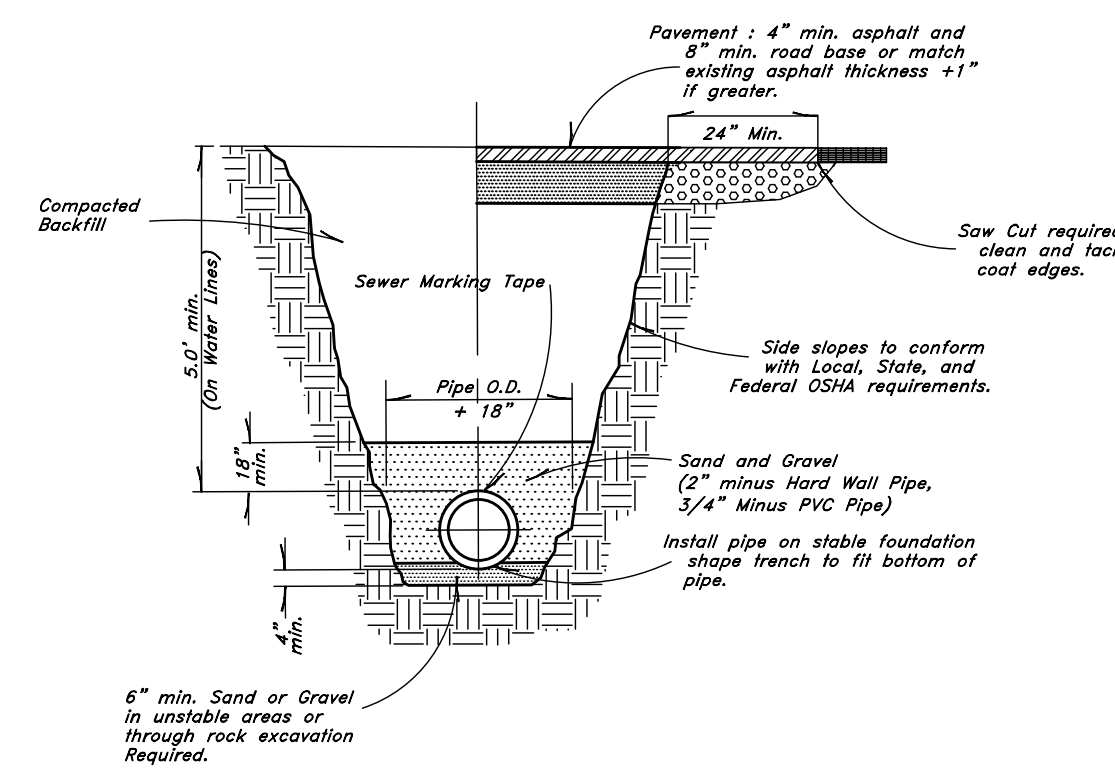
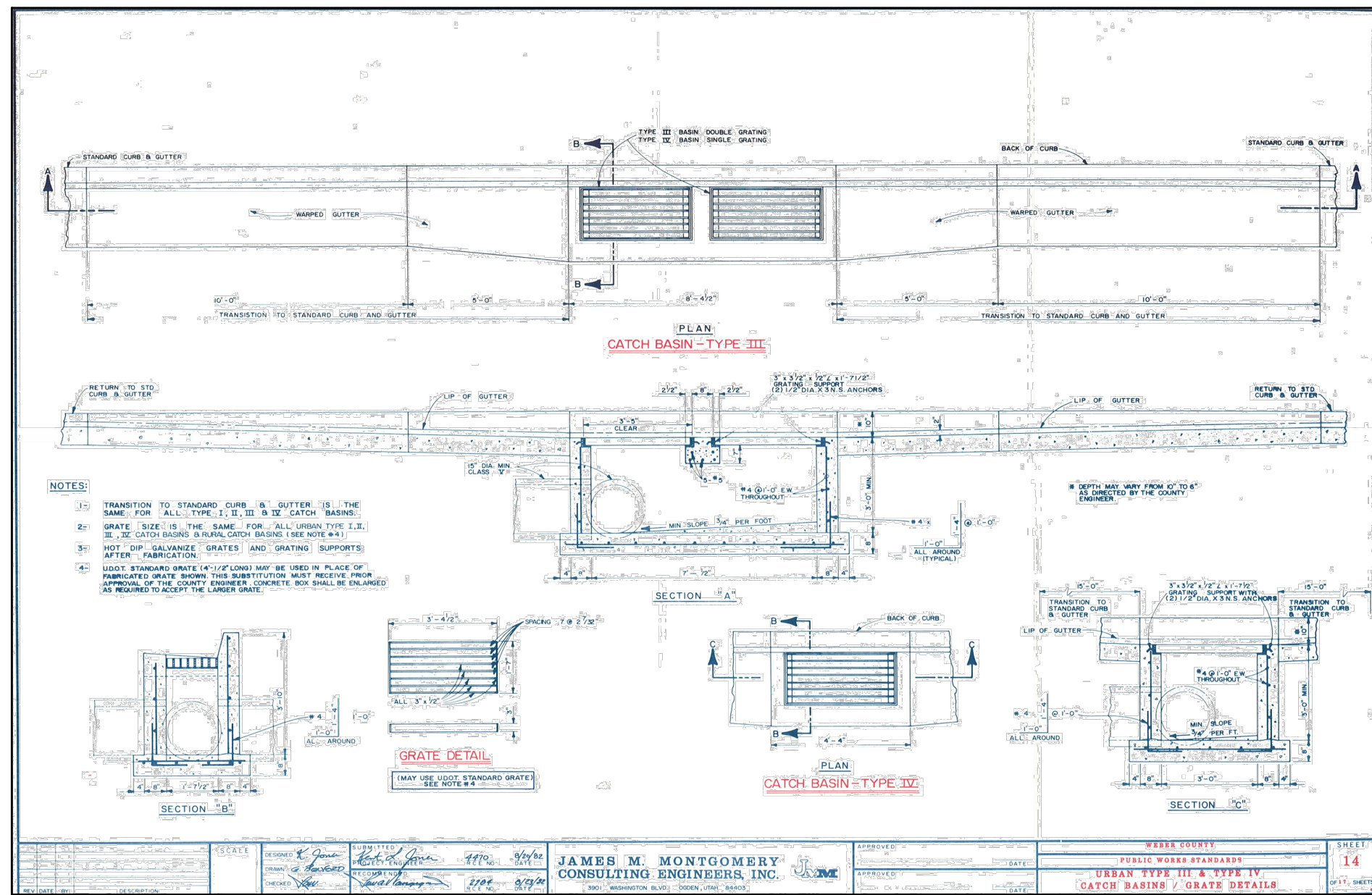


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CONSTRUCTION SITE



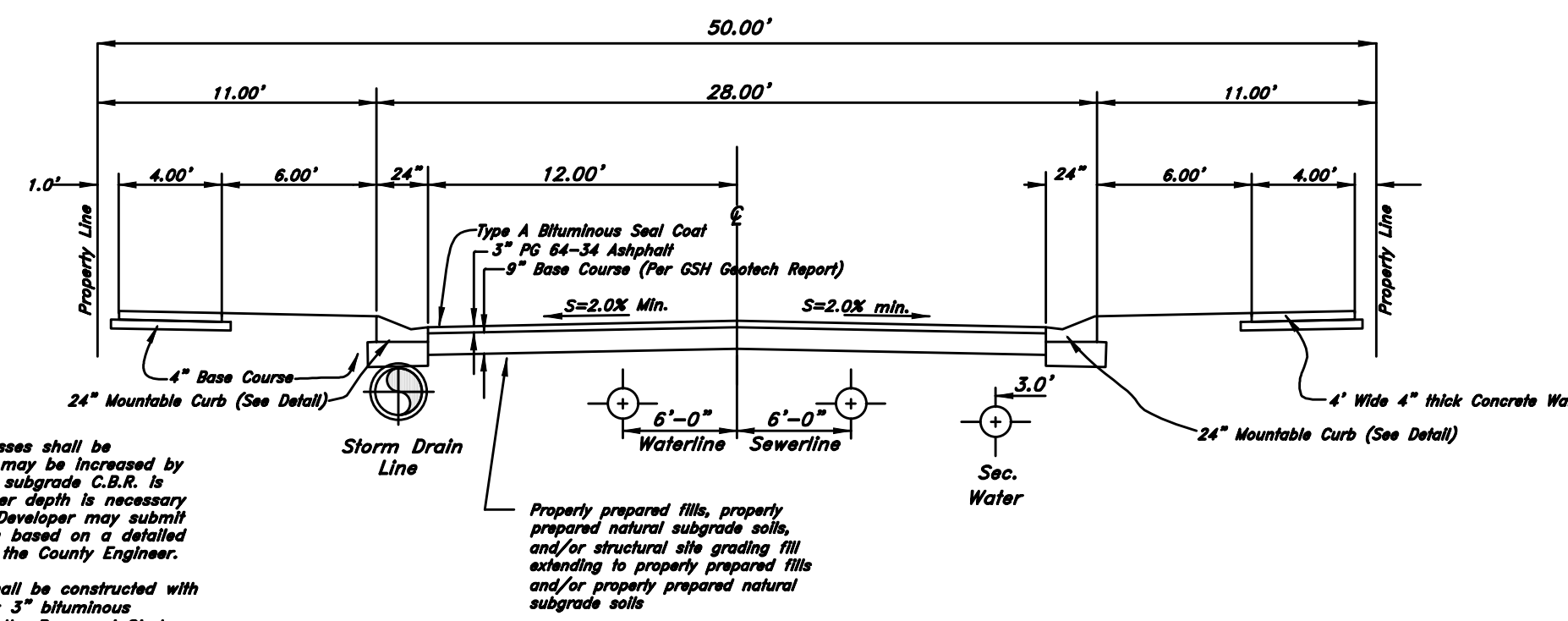
NOTES:

1 - These pavement thicknesses shall be considered as minimums and may be increased by the County Engineer when the subgrade C.B.R. is less than 10 or when a greater depth is necessary to provide sufficient stability. Designer may submit and alternate pavement design based on a detailed soils analysis for approval by the County Engineer.

2 - Minor & Major arterial shall be constructed with a 9" unreacted base course & 5" bituminous surface course as detailed in the Pavement Study Report prepared by GSH Geotechnical Inc. for Terakee Village Dated October 14, 2021.

3 - County Engineer has discretion to call for more.

4 - Provide 4" Thickness of 3/4" or 1" gravel base course under sidewalks, driveway approaches and curb & gutter when subgrade is clay or C.B.R. is less than 10 or as directed by the Geotechnical Engineer.

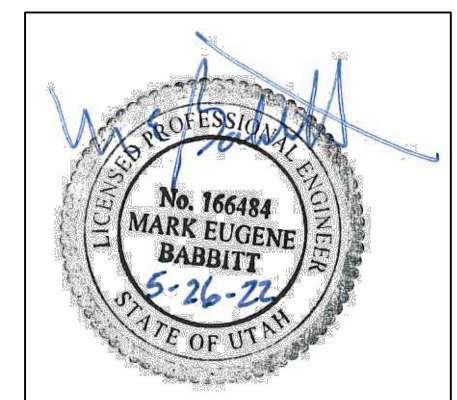
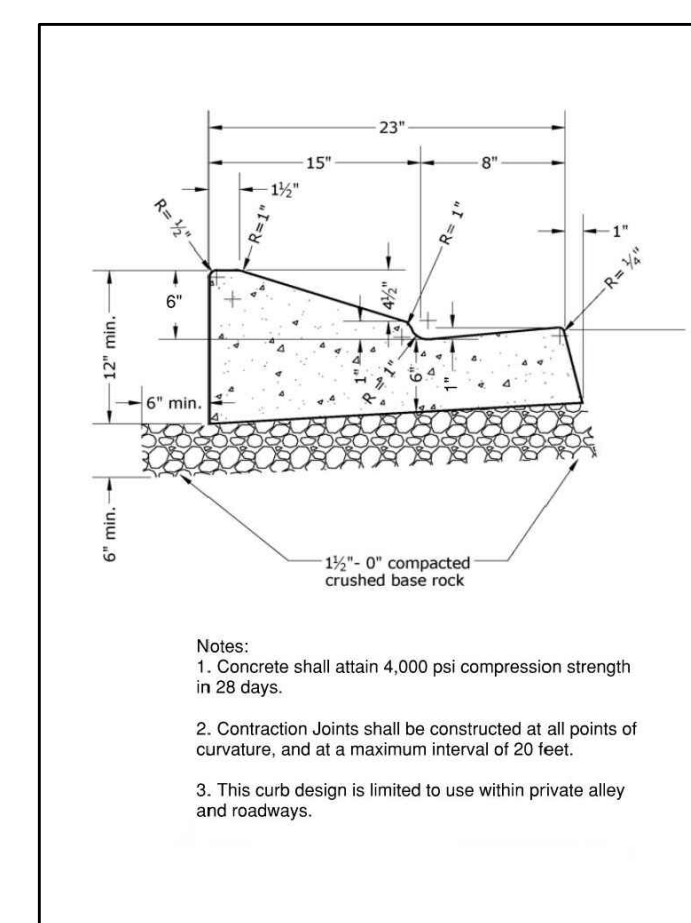


NOTES:

1 - Maximum difference in elevation between curbs on opposite sides of street shall not exceed 1.0'

2 - On arterial streets the County Engineer will provide a pavement design. Location of sidewalk and rolled curb & gutter may vary on individual arterial streets per direction of the County Engineer.

3 - See Geotechnical Engineering Study prepared by GSH Geotechnical, dated July 2021 for preparation of Sub Grade.



Call before you Dig
Avoid cutting underground utility lines. It's easy.



REV	DATE	DESCRIPTION

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Approximately 1000 North 3600 West
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10 Nov, 2021

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of 7

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* See All Sheets*

Terakee Farm® PRUD No. 1

A PRUD Subdivision

A part of Section 9, T6N, R2W, SLB&M, U.S. Survey

Weber County, Utah

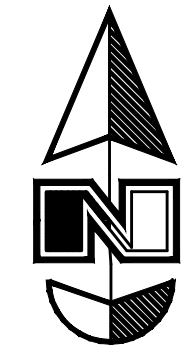
May 2022

NOTES

- All construction shall conform to Weber County standards and specifications.
- All Construction on the Secondary Water Line shall meet or exceed Marriott-Stalerville Standards and Specifications.
- Underground utility piping materials will meet or exceed Weber County Standards.
- Culinary water services will be 3/4" Dia. C-900 DR14 PVC to be centered on the frontage and extended 10' beyond the right of way line.
- 4" Sanitary sewer laterals to be constructed 10' down slope from the center of the lot and extended 10' beyond the right of way line.
- 4" Land drain laterals to be constructed at the low corner of the lot and extended 10' beyond the right of way line.
- Saw Cut Existing Asphalt to provide a smooth clean edge.
- All Utility trenches within the Street right of way shall have a City approved imported granular backfill.
- Thrust block all water line fittings.
- All inlet grates shall be bicycle safe.
- All fire hydrants and access roads shall be installed prior to any construction of any buildings.
- All fire hydrants shall be placed with 4 1/2 inch connections facing the point of access for the Fire Department Apparatus.
- Prior to the beginning of construction of any buildings, a fire flow test of new hydrants shall be conducted to verify the actual fire flow for this project. The Fire Prevention Division shall witness this test and shall be notified a minimum of 48 hours prior to the test.
- Curb & gutter installed along 2200 South Street will be set to ensure a 1.5% minimum/3.0% Maximum cross slope from edge of asphalt. Contractor to verify prior to construction of curb.
- An excavation permit is required for all work done within the existing Right of Way.
- A Storm Water Construction Activity Permit is required for any construction that disturbs more than 5000 Sq. Ft. or 200 Cubic Yards.
- All improvements need to be either installed or escrowed prior to recording of the subdivision.
- If construction activity will disturb more than an acre then a State SWPPP will be required. This includes the construction of the homes etc. on each lot.

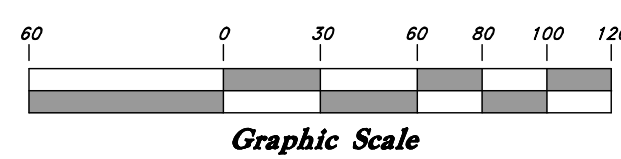
GENERAL GRADING NOTES:

- All work shall be in accordance with the County Public Works Standard.
- Cut slopes shall be no steeper than 2 horizontal to 1 vertical.
- Fill slopes shall be no steeper than 2 horizontal to 1 vertical.
- Fills shall be compacted per the recommendations of the geotechnical report prepared for the project and shall be certified by the geotechnical engineer.
- Areas to receive fill shall be properly prepared and approved by the County inspector and geotechnical Engineer prior to placing fill.
- Fills shall be benched into competent material as per specifications and geotechnical report.
- All trench backfill shall be tested and certified by the site geotechnical engineer per the grading code.
- A geotechnical engineer shall perform periodic inspections and submit a complete report and map upon completion of the rough grading.
- 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.
- Dust shall be controlled by watering.
- The location and protection of all utilities is the responsibility of the permittee.
- Approved protective measures and temporary drainage provisions must be used to protect adjoining properties during the grading project.
- All public roadways must be cleared daily of all dirt, mud and debris deposited on them as a result of the grading operation. Cleaning is to be done to the satisfaction of the city engineer.
- The site shall be cleared and grubbed of all vegetation and deleterious matter prior to grading.
- The contractor shall provide shoring in accordance with OSHA requirements for trench walls.
- Aggregate base shall be compacted per the geotechnical report prepared for the project.
- Elevations shown on this plan are finish grades. Rough grades are the subgrades of the improvements shown hereon.
- The recommendations in the following Geotechnical Engineering Report by CSI Geotechnical, Inc are included in the requirements of grading and site preparation. The report is titled "GEOTECHNICAL STUDY" Job No.: 3374-001-21 Dated: September 9, 2021
- 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.
- 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.



Terakee Farm®

Scale: 1" = 60'



McFarland Subdivision

Terakee Farm®

GENERAL UTILITY NOTES:

- Coordinate all utility connections to building with plumbing plans and building contractor.
- 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.
- All catch basin and inlet box grates are to be bicycle proof.
- 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.
- Refer to the site electrical plan for details and locations of electrical lines, transformers and light poles.
- Gas lines, telephone lines, and cable TV lines are not a part of these plans unless otherwise noted.
- Water meters are to be installed per city standards and specifications. It will be the contractor's responsibility to install all items required.
- 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.
- 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.
- All gravity flow utility lines shall be installed prior to any pressurized utilities unless written permission is obtained from the engineer of record before construction begins.

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

- 3/4" to 2" diameter pipe - CTS 150 Poly Pipe
- Over 2" diameter pipe - AWWA C-900 Class 150 pipe

WATER MAIN LINES AND FIRE LINES

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

SANITARY SEWER LINES

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

STORM DRAIN LINES

- 10" pipes or smaller - Polyvinyl Chloride (PVC) sewer pipe, ASTM D3034, Type PSM, SDR 35
- 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.
- 24" pipes or larger - Reinforced Concrete Pipe, ASTM C76, Class III up to 13' of cover, Class IV for 13' to 21' of cover, Class V for 21' to 32' of cover, and Special Design for cover greater than 32 feet.

CURB AND GUTTER CONSTRUCTION NOTES:

- Open face gutter shall be constructed where drainage is directed away from curb.
- Open face gutter locations are indicated by shading and notes on site and grading plan.
- It is the responsibility of the surveyor to adjust top of curb grades at the time construction staking.
- Refer to the typical details for a standard and open face curb and gutter for dimensions.
- Transitions between open face and standard curb and gutter are to be smooth. Hand form these areas if necessary.

ADA NOTES:

- Contractor must maintain a running slope on Accessible routes no steeper than 5.0% (1:20). The cross slope for Accessible routes must be no steeper than 2.0% (1:50). All Accessible routes must have a minimum clear width of 36". If grades on plans do not meet this requirement notify Consultants immediately.
- The Client, Contractor, and Subcontractor should immediately notify the Consultant of any conditions of the project that they believe do not comply with the current state of the ADA and/or FHAA.

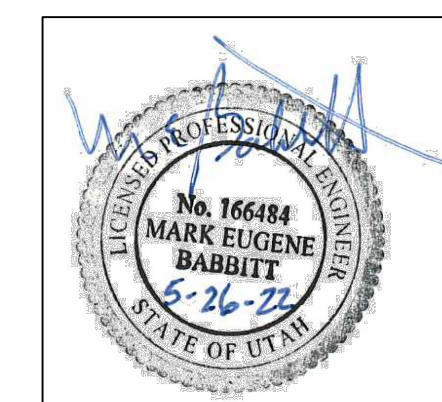
CAUTION NOTICE TO CONTRACTOR

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 proposed 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.

Jed J. & Pamela McCormick



GREAT BASIN ENGINEERING

5746 SOUTH 1475 EAST GARDEN, UTAH 84403
 MAIN (801)394-4515 S.L.C. (801)521-0222 FAX (801)392-7544
 WWW.GREATBASINENGINEERING.COM

Grading Plan

Terakee Farm - PRUD No. 1

Approximately 1000 North, 3600 West
 Weber County, Utah
 A part of Section 9, T6N, R2W, SLB&M, U.S. Survey

10 Nov, 2021

SHEET NO.

C6 of 7

16N704 - AM-1

Terakee Farm® PRUD No. 1

A PRUD Subdivision
A part of Section 9, T6N, R2W, SLB&M, U.S. Survey
Weber County, Utah
May 2022

PRODUCT SPECIFICATIONS

THE STORMWATER TREATMENT UNIT SHALL BE AN IN-LINE UNIT CAPABLE OF CONVEYING 100% OF THE DESIGN PEAK FLOW IF PEAK FLOW RATES EXCEED HYDRAULIC RATE. THE UNIT SHALL BE INSTALLED OFFLINE.

THE BARRACUDA UNIT SHALL BE DESIGNED TO REMOVE AT LEAST 80% OF THE SUSPENDED SOLIDS ON AN ANNUAL AGGREGATE REMOVAL BASIS. S&D REMOVAL SHALL BE BASED ON FULL SCALE THIRD PARTY TESTING BASED ON 10 MINUTE OPERATION ON EQUIPMENT AND 30 MINUTE CONCENTRATION S&D FULL SCALE TESTING SHALL INCLUDE BENTONITE CAPTURE BASED ON ACTUAL TOTAL MASS COLLECTED BY THE STORMWATER TREATMENT UNIT.

THE BARRACUDA UNIT SHALL BE DESIGNED TO REMOVE AT LEAST 50% OF TSS USING A MEDIA MIX WITH #50-75 MESH AND 200 MESH EFFLUENT CONCENTRATION.

OR:
THE BARRACUDA UNIT SHALL BE DESIGNED TO REMOVE AT LEAST 50% OF TSS PER CURRENT NURC/KCAT HDS PROTOCOL.

BARRACUDA S-4	
UNIT ID	S4
PEAK FLOW RATE CFS	15
TREATMENT FLOW RATE CFS	1.25
TREATMENT FLOW RATE PER	OK-110

WEBER COUNTY, UT
DATE: 5-26-22
SCALE: AS NOTED
SHEET: 1 OF 1

AF-41 SPIGOTBACK

AF-41 TYPE 6 SPIGOT FOR HDPE PIPE

AF-41 FLATBACK (FLANGEBACK SIMILAR BUT WITH ASA STANDARD FLANGE DIMENSIONS)

PARTS LIST

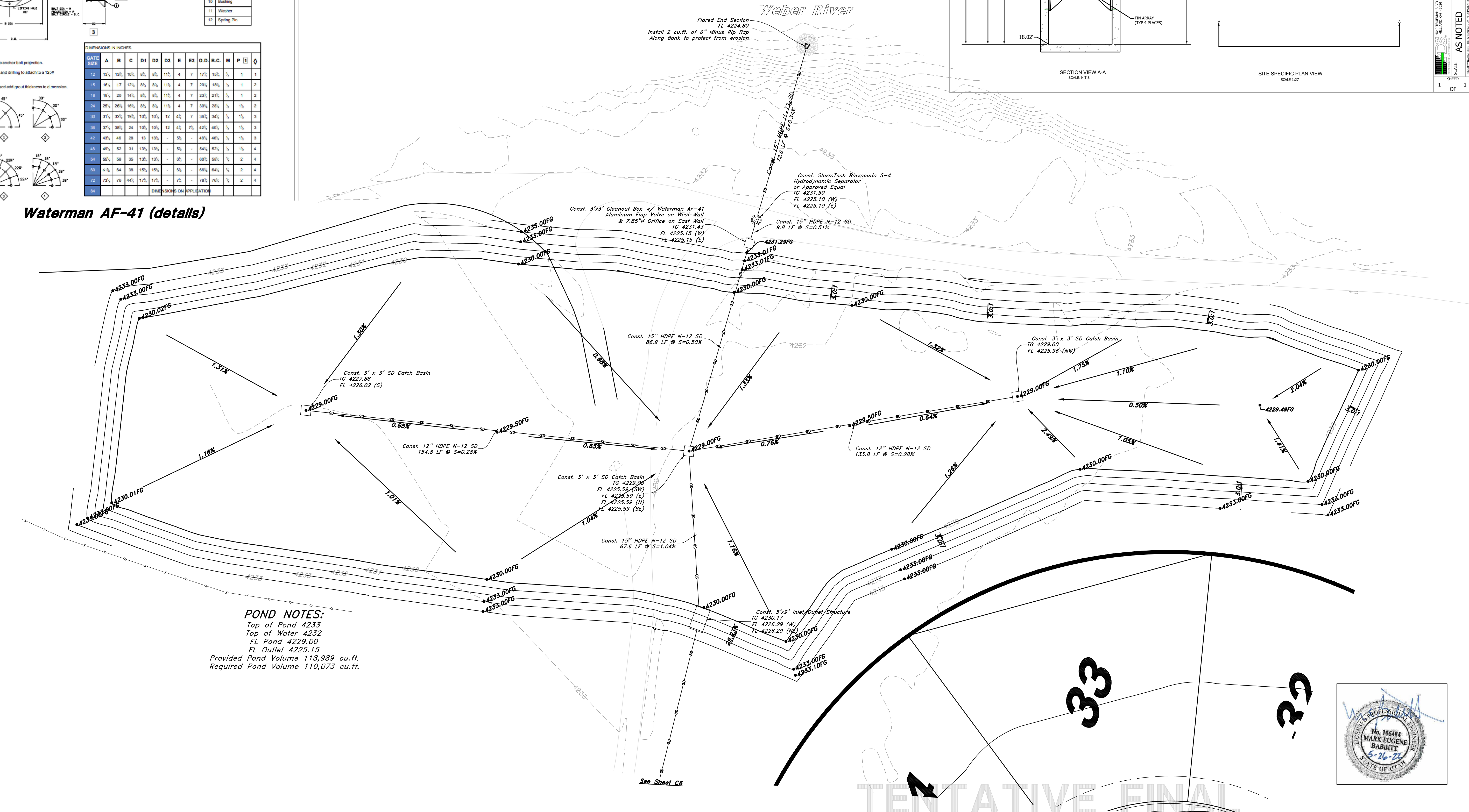
No.	Name
1	Frame
2	Seat
3	Retainer Ring
4	Hex Hd. Bolt/ Nut
5	Cover
6	Hinge Arm
7	Pin/ Lug
8	Hex Hd. Bolt/ Nut
9	Hinge Pin
10	Bushing
11	Washer
12	Spring Pin

DIMENSIONS IN INCHES

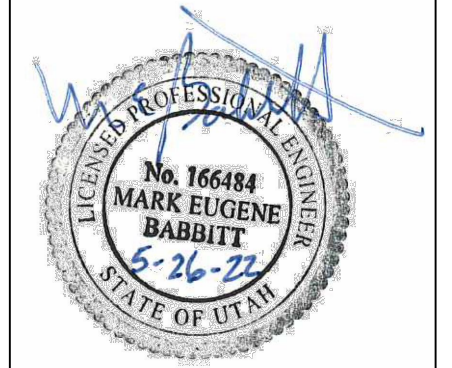
GATE SIZE	A	B	C	D1	D2	D3	E	E3	O.D.	B.C.	M	P	Q
12	13 1/2	13 1/2	10 1/2	8 1/2	8 1/2	11 1/2	4	7	17 1/2	15 1/2	1/2	1	1
15	16 1/2	17 1/2	12 1/2	8 1/2	8 1/2	11 1/2	4	7	20 1/2	18 1/2	1/2	1	2
18	19 1/2	20 1/2	14 1/2	8 1/2	8 1/2	11 1/2	4	7	23 1/2	21 1/2	1/2	1	2
24	25 1/2	26 1/2	16 1/2	8 1/2	8 1/2	11 1/2	4	7	30 1/2	28 1/2	1/2	1 1/2	2
30	31 1/2	32 1/2	18 1/2	8 1/2	8 1/2	11 1/2	4	7	36 1/2	34 1/2	1/2	1 1/2	3
36	37 1/2	38 1/2	24 1/2	8 1/2	8 1/2	11 1/2	4	7	42 1/2	40 1/2	1/2	1 1/2	3
42	43 1/2	44 1/2	28 1/2	13 1/2	13 1/2	11 1/2	4	7	48 1/2	46 1/2	1/2	1 1/2	3
48	49 1/2	50 1/2	31 1/2	13 1/2	13 1/2	11 1/2	4	7	54 1/2	52 1/2	1/2	1 1/2	4
54	55 1/2	56 1/2	35 1/2	13 1/2	13 1/2	11 1/2	4	7	60 1/2	58 1/2	1/2	2	4
60	61 1/2	62 1/2	38 1/2	15 1/2	15 1/2	11 1/2	4	7	66 1/2	64 1/2	1/2	2	4
72	73 1/2	74 1/2	44 1/2	17 1/2	17 1/2	11 1/2	4	7	78 1/2	76 1/2	1/2	2	4
84													

Waterman AF-41 (details)

- Add groud pad thickness to anchor bolt projection.
- Also available with flange and drilling to attach to a 125# standard plate.
- If groud pad mounting is used add groud thickness to dimension.



POND NOTES:
Top of Pond 4233
Top of Water 4232
FL Pond 4229.00
FL Outlet 4225.15
Provided Pond Volume 118,989 cu.ft.
Required Pond Volume 110,073 cu.ft.



GREAT BASIN ENGINEERING

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Pond Sheet

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Approximately 1000 North 3600 West
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SHEET NO. **C7** of 7

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